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Comparative proteomics of common allergenic tree pollens of birch, alder and hazel

Short title: Comparative proteomics of birch, alder and hazel pollens

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AUTHOR CONTRIBUTION

R.B.-G. designed the study. B.D., TT and L.L. performed experiments. B.D., T.T. and M.S. analyzed data. B.D., T.T., P.V.T. and R.B.-G. wrote the manuscript.

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ABSTRACT

In addition to known allergens, other proteins in pollen can aid the development of an immune response in allergic individuals. The contribution of the "unknown" protein allergens is apparent in phylogenetically related species where, despite of high homology of the lead allergens, the degree of allergenic potential can vary greatly.

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The aim of this study was to identify other potentially allergenic proteins in pollen of three common and highly related allergenic tree species: birch (*Betula pendula*), hazel (*Corylus avellana*) and alder (*Alnus glutinosa*). For that purpose, we carried out a comprehensive, comparative proteomic screening of the pollen from the three species. In order to maximize protein recovery and coverage, different protein extraction and isolation strategies during sample preparation were employed.

As a result, we report 2500 - 3000 identified proteins per each of the pollen species. Identified proteins were further used for a number of annotation steps, providing insight into differential distribution of peptidases, peptidase inhibitors and other potential allergenic proteins across the three species. Moreover, we carried out functional enrichment analyses that, interestingly, corroborated high species similarity in spite of their relatively distinct protein profiles.

We provide to our knowledge first insight into proteomes of two very important allergenic pollen types, hazel and alder, where not even transcriptomics data is available, and compared them to birch. Datasets from this study can be readily used as protein databases, and as such serve as basis for further functional studies.

Keywords: pollen, birch, hazel, alder, proteomics

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INTRODUCTION

Allergic respiratory diseases such as rhinitis and asthma represent a major health care burden and are the most common chronic diseases among young adults [1]. Of the total number of allergic individuals, pollen allergies account for approximately 40% of all cases. The main body of allergenic pollen is produced by trees, of which the most dominant ones belong to the orders of *Fagales*, *Lamiales*, *Proteales* and *Pinales* [2]. Out of the four orders, *Fagales* is leading in the number of allergenic species officially recognized by the World Health Organization and International Union of Immunological Societies (WHO/IUIS) (http://www.allergen.org/). Correspondingly, members of the *Fagales* order are the main cause of spring pollinosis in the northern hemisphere [3]. Major *Fagales* pollen allergens (e.g. Bet v 1 in birch, Aln g 1 in alder and Cor a 1 in hazel) belong to the pathogenesis-related protein class 10 (PR-10), which also includes a large group of other food- and aeroallergens [2].

However, not all *Fagales* species cause the same degree and type of allergic reaction. This is, on the one hand, to some extent due to the physical properties of pollen [3] as well as the potency of the lead allergen. For example, Bet v 1, the main allergen of birch pollen, is by the far most potent allergen compared to other allergenic proteins from related species [4,3]. On the other hand, different allergenic properties of pollen can also be due to different profiles of other non-allergenic constituents of pollen, in particular enzymes that can aid the allergic response [5]. For instance, different types of pollen proteases that are normally anchored to the pollen wall are known to be able to disrupt the tight junctions of respiratory epithelial cells, increasing the sensitization to allergens [6,7]. Next to proteases, different protease inhibitors that have been identified in pollen might also play a role in modulating the activity of pollen as well as of host proteases [8]. In addition, intrinsic nicotinamide adenine dinucleotide phosphate (NADPH) oxidases of allergenic pollens have also emerged in recent years as potential inflammatory mediators [9]. This implies that often synergistic activities of allergenic and non-allergenic pollen proteins appear to be necessary to fully trigger the host's allergic response. Immunotherapy with isolated recombinant pollen allergens seems to be promising, as shown for both plant and *E.coli* derived recombinant Bet v 1 [10], but in some cases the isolated treatment fails to meet the efficiency of immunization with total pollen extracts [11]. Such discrepancies might be in large part due to the host organism used for recombinant protein production. Naturally, plant-derived recombinant proteins have a conformation more similar to the native ones, and thus should be the preferred option whenever possible [12].

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In this study we focused on elucidation of potential allergenic and non-allergenic protein contributors in pollen of the highly relevant and highly related allergenic *Fagales* species: birch (*Betula pendula*, BP), alder (*Alnus glutionsa*, AG) and hazel (*Corylus avellana*, CA). Of note, we considered several aspects: In addition to the above mentioned factors determining the allergenic potency of pollen, another important element is bioavailability of the allergenic components, e.g. the efficiency of pollen grain rupture [13]. The rupture can occur within several minutes in hypotonic solutions such rainwater or tears [14], or might take up to several hours, as shown for birch pollen in water [13]. This means that different proteins are released over time by pollen particles depending on the environment the pollen is exposed to. To account for that, we employed two different protein extraction strategies. In the first approach we attempted to mimic the physiological environment of nasal mucus by incubating the pollen for prolonged time (4 – 10 h) at physiological pH in phosphate-buffer saline (PBS), which has similar sodium, potassium and chloride ion content as nasal mucus [15]. To aid protein solubilization and prevent formation of protein-protein coagulates, PBS was supplied with a very low amount of a mild non-ionic detergent (0.1 % Triton X100) and the resulting protein extract was considered "water-soluble protein fraction". In the second extraction approach, in order to exclude any allergen-release-efficiency bias and recover as many proteins as possible, pollen grains were lysed using harsh bead-treatment and solubilized in a potent anionic detergent (1 % sodium-dodecyl sulphate (SDS)). Proteins extracted in this way were referred to as the "total proteome". Next to protein extraction, further protein preparation steps of the water-soluble fraction were also carefully considered, as a much lower protein yield was expected there and it is known that pollen trapped in the nasal mucus not only releases protein allergens, but also a plethora of bioactive lipids [16] which must be fully removed prior proteomics analysis. For that reason, we employed different protein preparation strategies of the soluble protein fractions to achieve optimal protein recovery and coverage.

Overall, we carried out a comprehensive proteomics screening which enabled us to annotate and compare the proteomics profiles of pollen from the three species (birch (*Betula pendula*, BP), alder (*Alnus glutinosa*, AG) and hazel (*Corylus avellana*, CA)). To our knowledge this is the first study to tackle the yet not annotated alder and hazel pollen proteomes. In addition, we provide a comparative insight that despite their very high phylogenetic similarity, these three species have distinctive pollen proteome profiles, which may also to some extent contribute to their differential allergenic potentials.

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MATERIALS AND METHODS

Pollen extract preparation with mild lysis conditions (water-soluble proteome)

Pollen from birch (*Betula pendula,* BP), alder (*Alnus glutinosa*, AG) and hazel (*Corylus avellana*, CA) were collected in Styria, Austria during the pollen season. Water-soluble protein pollen extracts were prepared by shaking for 4 h at room temperature in PBS containing 0.1 % Triton X-100, except for birch pollen, which had to be shaken for 10 h to extract comparable protein amounts. Pollen extracts were then left overnight at - 20 °C. The following day, extracts were centrifuged at 18,000 *g* for 20 min at 4 °C and the supernatants were collected for proteomics analysis (see supplement).

Pollen extract preparation with harsh lysis conditions (total proteome extract)

Additionally, pollen from all 3 species (each in triplicates) were lysed with 500 µm Zirconium beads (Sigma) and MagNAlyser (Roche, Switzerland) for 3 min in 500 µL of 100 mM Tris-HCl (containing 10 mM TCEP and 40 mM CAA). After removal of the beads, the extracts were adjusted to 1 % SDS, left shaking for 10 min, followed by 10 min incubation at 95 °C. Consequently, extracts were centrifuged at 18,000 *g* for 20 min at 4 °C and the supernatants were collected for proteomics analysis.

RESULTS

Pollen extracts from three related *Fagales* species show distinctive protein profiles and allergenic responses

To address and visualize overall protein expression patterns of the water-soluble and total proteome fractions of the three related *Fagales* pollen types, we first performed SDS-PAGE followed by fluorescent staining of proteins. Due to technical challenges, birch pollen soluble extract had to be prepared differently than the other two (see materials and methods). Still, already a simple gel analysis pointed out prominent distinctions in the protein profiles of the soluble protein fraction of the three allergenic pollen species (Fig. 1A). Besides the divergence in birch extract preparation (which needed to be shaken for a longer time (10 versus regular 4 h) to yield comparable amounts of protein), this may be due to different protein release efficiencies of the pollen. It also is noteworthy to mention that the dominant allergenic PR-10 protein members have a size of 17 kDa, which places them on the lower end of the observed mass range, most likely corresponding to the thick protein band just below 20 kDa (Fig 1A). On the other hand, harsh lysis conditions resulted in rather similar protein distributions across all three species, corroborating the usefulness of these extracts as total protein fractions (Fig 2A).

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In order to investigate the allergenic potential of the protein extracts from the three pollen species, we addressed their specific immunoglobulin (IgE) antibody responses. For that purpose, proteins from the soluble and total protein fractions were transferred to a nitrocellulose membrane and incubated with patients' serum (pooled from five individuals allergic either only to birch or to all three species). Consequently, allergen bound IgE was detected and visualized using a reporter-linked specific antibody against human IgE. As expected, in the soluble fraction most potent allergens were located in the area just below 20 kDa, corresponding to the size of PR-10 protein family members (Fig. 1B). However, despite high similarity between species, the soluble extracts of the three pollen types had surprisingly distinctive distributions of allergens, especially in the area between 50 and 110 kDa (Fig. 1B). In the total proteome fraction, only the protein allergen group corresponding to PR-10 proteins was able to bind IgE, albeit to a lesser extent. The reason for this most likely was the harsh lysis, which could have led to stronger denaturation and loss of the allergens' protein conformation, rendering them less recognizable by IgE.

Considering the distinctive protein and allergen profile of the three species, we next performed a more detailed proteomic analysis employing LC-MS/MS. In the lack of existing protein databases, we applied a multi-step analysis workflow depicted in Fig. 2 to identify and annotate the pollen proteomes of the three species. Given the different protein profiles obtained from the soluble and total proteome fractions, in order to achieve optimal proteome coverage, we used two different extraction approaches as well as three different protein sample preparation methods for consequent LC-MS/MS analysis.

Complementarity of protein sample preparation methods

After water soluble pollen protein isolation, we tested three different yet commonly used sample preparation approaches [17]. Proteins were either precipitated in triplicates (for hazel) or quadruplicates (birch and alder) from individual pollen extracts using acetone, trichloroacetic acid (TCA) or purified by applying the FASP protocol [18] (Fig. 2). The sample preparation method affected the overall number of identified proteins in the water-soluble fraction of the three pollen species to a different extent. With 1189, 1082 and 1149 identified proteins in the pollen proteomes of birch by FASP, acetone and TCA precipitation respectively, the effect on overall obtained protein numbers appeared to be minor (Fig. 3A). On the other hand, analysis of the soluble fraction of alder pollen extract resulted in 1102, 779 and 694 proteins identified by FASP, acetone and TCA precipitation respectively. For hazel, the FASP protocol resulted in 929 identified proteins, acetone precipitation in 942, while after TCA precipitation we could identify only 540 proteins. In addition, data analysis revealed that different preparations in all three species resulted in the extraction of distinct proteins (Fig. 3A). In each of the three pollen species about 38-72 % of all identified proteins per preparation (TCA, acetone or FASP) were actually detected in all

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three preparation procedures. Correspondingly, the contribution of uniquely identified proteins per preparation method was rather high – spanning from 8 - 30 % across different pollen species and precipitation techniques (Fig. 3A). Therefore, in order to ensure maximal information coverage, for all consequent analysis steps we used data pooled from all three sample preparation approaches for each pollen species.

Merged together, all three protein preparations resulted in 1525 identified proteins in the water-soluble fraction of birch, 1274 in alder and 1213 in hazel. The large majority of proteins identified in the water-soluble fraction (1244 (82 %), 837 (66 %) and 910 (75 %) proteins in birch, alder and hazel, respectively) were also identified in the "total proteome" (solubilized proteome after harsh lysis) as shown in Fig. 3B. Still, a significant number of proteins were identified exclusively in the water-soluble protein fraction (282 (birch), 437 (alder) and 303 (hazel); Fig. 3B), which were potentially released only after prolonged exposure to water.

Database annotation and protein classification

For identification of proteins from the different pollen species, two search engines, Andromeda (MaxQuant) and Mascot, were employed. In all cases raw proteomics data was searched against protein databases (.fasta files) created from Trinity *de novo* transcriptome assemblies of publicly available RNA-seq data from the Sequence Read Archive (SRA) as described in the supplement (Fig. 2). When creating the fasta protein database file, in order to provide a protein name for each Trinity identifier, d*e novo* assembled Trinity databases were annotated using the blastx tool by matching the assembly to existing NCBI non-redundant (nr) protein sequences of several phylogenetically closely related species. The top two hits per each Trinity identifier with an e-value of less than 0.001 were listed as protein names. For more reliable peptidase annotations, *de novo* transcripts were also blasted via blastx over the manually curated MEROPS peptidase database with a maximum e-value of 10^{-4} allowed for matching. In both cases (blastx search for related NCBI nr proteins and blastx-MEROPS [19] search for peptidase annotation) the obtained results were added as additional annotations to the list of Trinity identifiers.

Results from protein-database matching were then subjected to further functional annotation employing Pfam [20], AllFam [21], Allergome[22], MEROPS [19], and GO enrichment [23].

Pfam family and Allergome annotation

The Pfam database recognizes sequence similarities that indicate homology and accordingly assigns similar proteins to a protein family [20]. As a result of this approach, in the soluble protein fraction we could

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annotate 684 Pfam families in birch, 512 in alder and 509 in hazel (Fig.3C, Suppl. Table S1-9). On the other hand, annotation of the total proteome resulted in 1214 Pfam families from birch and 905 and 1131 from alder and hazel, respectively (Fig.3D, Suppl. Table S1-9). In both soluble and total proteomes, Pfam analysis of birch yielded in the highest number of annotations. This is not surprising, as in case of birch the transcript of pollen could be used for creation of the *de novo* assembled Trinity database, which were not available for alder and hazel. For alder, the transcriptome of leaves and for hazel, the transcriptome of catkins was used instead.

Combined datasets obtained from soluble and total protein fractions per each pollen species containing Pfam annotation were then searched for known allergens (mainly PR-10 protein family members), whose allergenic nature was further corroborated using the Allergome platform, the database of allergenic molecules. Lists of Allergome annotated allergens for hazel, birch and alder are displayed in Suppl. Tables S10-12, respectively.

Among the annotated Pfam families, we identified 98 and 173 different protease families across the three pollen species in their soluble and total proteomes, respectively. Strikingly, out of the 98 protease families found in the soluble fraction, proteins from 34 different families could be identified exclusively in the soluble fractions (Suppl. Table S13-21).

Peptidase and allergen annotation

In order to have an even closer look into peptidases, proteins that were identified as peptidases in MEROPS with high confidence were extracted from the result list of identified proteins with their corresponding blastx protein names, Pfam [20] and MEROPS [19] identifications. This extracted list of peptidases and peptidase inhibitors was then filtered to remove MEROPS entries labeled as “non-peptidase homologues”. Based on the mechanism of their catalytic activity, peptidases were further allocated to six classes, namely aspartate-, cysteine-, metallo-, serine-, threonine- peptidases and peptidases of unknown origin (Fig. 4, Suppl. Table S13-21). Intriguingly, the distribution of proteases in the total proteome (Fig. 4A) and the whole soluble fraction (Fig. 4B), differed compared to the distribution of the proteases exclusively found in the soluble fraction (Fig. 4C). This is of particular interest as the soluble fraction is more likely to represent the physiological state of how the nasal mucus and endothelium are exposed to pollen.

In the total proteome across the three pollen species the most abundant is the serine hydrolase family, accounting for 32 - 36 % of all annotated proteases (Fig. 4A). Comparatively, the relatively as well as absolutely highest serine protease content was observed in the total proteome of birch. The same was

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true for the combined soluble fraction (Fig. 4B). However, when proteases exclusive to the soluble fraction were separately observed, the trend was different: the relative abundance of serine hydrolases compared to other peptidases was much higher in alder (61 %) than in birch (39 %) (Fig 4C).

One of the most prominent serine hydrolase families detected in the soluble fraction was the Pfam family of subtilases (PF00082), which are serine hydrolases with conserved Asp/Ser/His catalytical triad [24]. From this family alone, we detected 14 proteases in birch, 10 in hazel and two in alder, of which a total of five (two in birch, three in hazel) were identified only in the soluble fractions. According to the AllFam Database [21], 23 allergens are currently known for this Pfam family. Next to subtilases, another serine hydrolase family, namely carboxypeptidases (PF00450), stands out. In the soluble fraction of birch, we could detect 12 members of this family, in alder 11 and in hazel three, of which a total of six (three each in alder and birch) were found exclusively in the soluble fraction. AllFam currently only lists two allergens from this family (Api m 9 and Tri a CPDW-II).

While in the total proteome the second most abundant hydrolase class are the metallopeptidases (Fig. 4A), in the soluble fractions the next highest rank is taken by cysteine hydrolases (Fig. 4BC). Correspondingly, different members of cysteine protease family (PF00112) were identified in the soluble fraction (14, six and 12 in birch, alder and hazel, respectively) of which a total of seven were found in the soluble part only. A role for cysteine proteases in allergies has already been proposed, as they can disrupt tight junctions in epithelial cells [6,7]. AllFam lists 13 allergens deriving from this Pfam family, such as Der p 1 from house dust mites, which was shown to exhibit cysteine protease activity and also to be involved in disruption of the epithelial barrier [25].

We moreover detected a number of different metallopeptidases (assigned to 16, four and eight different Pfam families in soluble fraction of birch, alder and hazel, respectively). Of these, arguably the most dominant family was the Pfam family of aminopeptidases (PF01433). Pollen aminopeptidases have also been reported to be able to disrupt the integrity of epithelium [26]. However, AllFam does not list any allergens associated with this family.

Lastly, in addition to different proteases, we further report a comprehensive list of protease inhibitors belonging to 12 different Pfam families in the soluble fraction of birch, six in alder and 12 in hazel pollen (Suppl. Table S13-21). Pollen protease inhibitors can influence the activity of proteases, and therefore modulate the allergic response [8]. For example, in alder and hazel we detected more inhibitors belonging the family of cystatins (cysteine protease inhibitors, PF16845) than in birch. The same was true for serine protease inhibitors (belonging to families of serpins (PF00079), I9 (PF05922) and potato inhibitor I

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(PF00280)) [27], which were collectively more abundant in alder and hazel than in birch. This might suggest that cysteine and serine hydrolases are more active in birch than in the other two species, which could contribute to its higher allergenic potential.

Functional profiling

Lastly, all identified proteins were subjected to functional profiling by GO [23] to obtain a first indication on potential functional diversity. Up-levelling of the GO terms to level 2 provides an overview of the distribution of proteins across GO classes. To estimate the similarities of the functional profiles (displayed in Suppl. Fig. S1) we calculated Spearman rank correlations. Interestingly, obtained correlations of the profiles were almost identical across all GO classes. This is also depicted by overall very similar GO profiles of birch, alder and hazel despite of their different proteomic compositions (Table 1 and Suppl. Fig. S1).

DISCUSSION

Allergies are a great economic and health burden worldwide. Determination of the causes for differential allergenic responses provoked by different allergenic species was long based only on investigation of their lead protein allergens (such as members of the PR-10 protein family in case of the *Fagales* order). However, with closer related species the structural homology and cross-reactivity of their lead allergens is rather high, but still their allergenic potential can be completely different. For example, 79 % to 83 % of amino acid sequence identity is exhibited by the main allergens of alder (Aln g 1) and hazel (Cor a 1) compared to the sequence of Bet v 1 [4], respectively. Nevertheless, birch pollen is still the most potent allergen in Europe [4], suggesting that potentially other, non-allergenic pollen proteins may contribute to differential allergic responses. We as well demonstrated that the three pollen species display different allergenic responses (Fig. 1B) and our next step will be an even more thorough analysis and annotation of these novel, potent allergens. This represents a challenge for itself, as sometimes identification of new, potentially potent allergens can be masked by other, more dominant ones. This was recently shown for the newly discovered olive allergen, Ole e 15 (cyclophilin) whose dimeric form has the same molecular mass as the glycosylated form of the most prevalent olive allergen, Ole e 1. [28] The need for detailed analysis of both allergenic and non-allergenic pollen proteins arises from the fact that success rates with allergen immunotherapy have not been satisfying, despite correlating it to the specific sensitization pattern. While in some cases treatment with recombinant allergenic proteins has been successful [29], another study showed that for children allergic to grass-pollen, when matching the obtained sensitization profiles with a preparation of eight *Phleum pratense* molecules for specific immunotherapy, only 4 % of

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the patients had a sensitization profile matching exactly the one proposed in the experimental allergen specific preparation. In the other 96% of the patients, a mismatch between the sensitization profile of each patient and the composition of the allergen specific preparation was observed, suggesting a wide heterogeneity of sensitization profiles. [30]. . Thus, this could indicate that important allergens may be missed by the treatment with recombinant proteins, resulting in underpowered and overpowered immunization . [30,31]

In recent years different classes of proteases have gained attention with regard to allergies, and some allergens themselves have been described as proteases, e. g. Der p1 from house dust mite as a cysteine protease involved in disruption of the epithelial barrier [32] and Der p3, 6 and 9 [33] as serine proteases. Additionally, proteases were found within allergenic sources, e.g. white birch diffusate [34,6], and hazel pollen diffusate [6]. Here as well of particular importance are serine and cysteine proteases. As previously shown, serine proteases can degrade tight junctions in epithelial cells when exposed to diffusates from white birch [34], which could be blocked by addition of the serine protease inhibitor AEBSF (4-(2-aminoethyl)benzenesulfonyl fluoride). Similar results were obtained for cysteine proteases and the E-64 cysteine protease inhibitor [7,6]. Since the loss of epithelial barrier function represents an opportunity for allergens for entry and development of allergic reactions [35], further investigation of identified cysteine and serine proteases are of high interest. In this study we give a detailed overview of protease distribution across the three highly relevant pollen species. For birch, in accordance with the published protein analysis of the water extract from commercially available birch pollen, [36] we as well detect serine hydrolases as the most abundant protease family in birch pollen (Fig. 4A). In addition, we report a comprehensive lists of distinctive Pfam protease families for the three pollen species (e. g. 75 in the soluble and 142 in the total protein fraction of birch), of which 13 matched those previously reported for the water extract of commercially available birch pollen.[36] Similarly, in our data we also identify almost all identified proteins from the 1D/2D proteomics study of birch pollens from different origins reported by Erler et *al*. 2011, both allergens and other metabolic enzymes [5]. In addition to proteases, it is important to mention that different protease inhibitors (present also in pollen) can modulate the activity of proteases and influence the allergenic response [8,27]. In this regard, we as well report a detailed list of different protease inhibitors detected across the three species, which can serve as solid ground for future allergenic studies (Fig. 4 and Suppl. Tables S13-S21). Moreover, it was recently shown that the epithelium itself actively regulates down-stream allergic mechanisms via innate lymphoid cells type 2 by secreting IL-33 and thymic stromal lymphopoietin among other cytokines [37]. Thus, further knowledge about pollen protein content, their function and interaction with the nasal mucus and epithelial cell proteome harbors

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the potential of blocking stimuli exerted by the proteins on epithelial cells and the subsequent allergic cascade.

CONCLUSION

In this study we employed different extraction and protein preparation approaches, which all together resulted in a comprehensive proteome annotation of pollen from three *Fagales* tree species, birch, alder and hazel, with 2500 - 3000 proteins identified per species (supplementary fasta files). We give a detailed overview of protein families, with a special focus on proteases and protease inhibitors, which may contribute to their different allergenic potential. While for birch pollen an existing RNAseq dataset was available [8], this was not the case for the other two species used in this study, for which sequencing data of other plant parts had to be used for *de novo* database assembly (catkins and leaf for hazel and alder, respectively). When RNAseq datasets of hazel and alder pollen become available, the identified proteomes can be refined by using them as database for researching our LC-MS/MS data. Therefore, we present here the first available alder and hazel pollen proteomes in comparison to birch as solid foundation for further research.

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TABLES

Table 1. Spearman rank correlation between functional profiles of soluble proteins. GOBP – GO Biological process, GOMF – GO Molecular function, GOCC – Cellular compartment; GO total – Level 2 GO term classes; AG - *Alnus glutinosa,* BP - *Betula pendula,* CA - *Corylus avellana.*

	GO total		GOBP		GOMF		GOCC	
	BP	AG	BP	AG	BP	AG	BP	AG
BP		0.98		0.98		0.98		0.98
CA	0.99	0.97	0.99	0.98	0.98	1.00	1.00	0.98

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FIGURE LEGENDS

Figure 1. Pollen of three highly related *Fagales* species (birch (*Betula Pendula*), alder (*Alnus glutinosa*) and hazel (*Corylus avellana*)) display distinctive protein profiles and different allergenic potential. A: SDS-PAGE of individual pollen protein extracts. Protein bands were visualized by fluorescent staining. Individual wells represent biological replicates of the same pollen species extracted either under mild (0.1 % Triton-X 100 in PBS; *Soluble Proteome*; n=3 per pollen species) or harsh extraction conditions (Zr^{2+} beads, 1 % SDS; *Total Proteome*; n=3 per pollen species). B: Anti-IgE Western blot of the soluble proteome (n=3 per pollen species) and total proteome (n=3 per pollen species) incubated with a pool of serum collected from five allergenic individuals. .

Figure 2. Proteomic workflow. Proteins were isolated from pollen of *B. pendula* (birch), *A. glutinosa* (alder) and *C. avellana* (hazel) to obtain soluble fractions (mild extraction in 0.1 % Triton-X in PBS) and the total proteomes (harsh mechanical lysis using Zirconium-beads with acetone precipitation). Soluble extracts were processed using three different approaches, after which they were digested and subjected to LC-MS/MS analysis. Protein databases were created from publicly available pollen (for birch), leaf (for alder) and catkins (for hazel) RNA-seq data using Trinity *de novo* transcriptome assembly and Emboss alignment. Generated fasta files were used as databases for protein identification by Mascot and MaxQuant as well as annotation by blastx. Protein-database matching (search output) resulting from data pooled from the different protein preparations (soluble fraction and total proteome) was then used for Pfam, MEROPS and Gene Ontology (GO) an AllFam annotations. TCA – trichloroacetic acid, FASP - Filter Aided Sample Preparation.

Figure 3. Complementarity of different protein sample preparation methods. A: Analysis of "soluble fraction" of the pollen proteomes (extracted by incubation in PBS containing 0.1 % Triton X-100) using different protein precipitation and re-solubilization approaches. Venn diagrams show numbers of identified proteins by each method. B: Comparison of identified proteins in soluble (PBS, 0.1 % Triton X-100) versus total protein fraction (zirconium beads, 1% SDS). C-D: Pfam families of identified proteins of three *Fagales* pollen species. Venn diagram depicting overlap of annotated Pfam families in soluble proteome (C) and total proteome (D). Detailed list of identifications can be found in Suppl. Table S1-9. AG - *Alnus glutinosa;* alder*,* BP - *Betula pendula;* birch*,* CA - *Corylus avellana*; hazel, TCA – trichloroacetic acid, FASP - Filter Aided Sample Preparation.

Figure 4. Distribution of MEROPS annotated identified peptidase subfamilies as well as peptidase inhibitors in three different pollen species. Panels represent total number of MEROPS annotated

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peptidases and peptidase inhibitors as well as the relative distribution (percentage) of different types of peptidases compared to the total number of MEROPS annotated peptidases per each species. (A) distribution of identified peptidases and peptidase inhibitors in combined total and soluble proteome fractions (peptidases and peptidase inhibitors from soluble fractions and bead lysis) (left: exact number of identified peptidases/peptidase inhibitors; right: distribution of peptidase types compared to total number of identified peptidases in this proteome fraction (in percent) , (B) distribution of identified peptidases and peptidase inhibitors in soluble fraction (peptidases and peptidase inhibitors from soluble fractions) (left: exact number of identified peptidases/peptidase inhibitors; right: distribution of peptidase types compared to total number of identified peptidases in this proteome fraction (in percent), (C) distribution of identified peptidases and peptidase inhibitors peptidases and peptidase inhibitors identified exclusively in the soluble fraction (but not in the total proteome/bead lysis; left: exact number of identified peptidases/peptidase inhibitors; right: distribution of peptidase types compared to total number of identified peptidases in this proteome fraction (in percent)). Detailed list of identifications can be found in Suppl. Table S13-21. BP – *Betula Pendula*, AG - *Alnus glutinosa*, CA - *Corylus avellana.*

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FIGURES

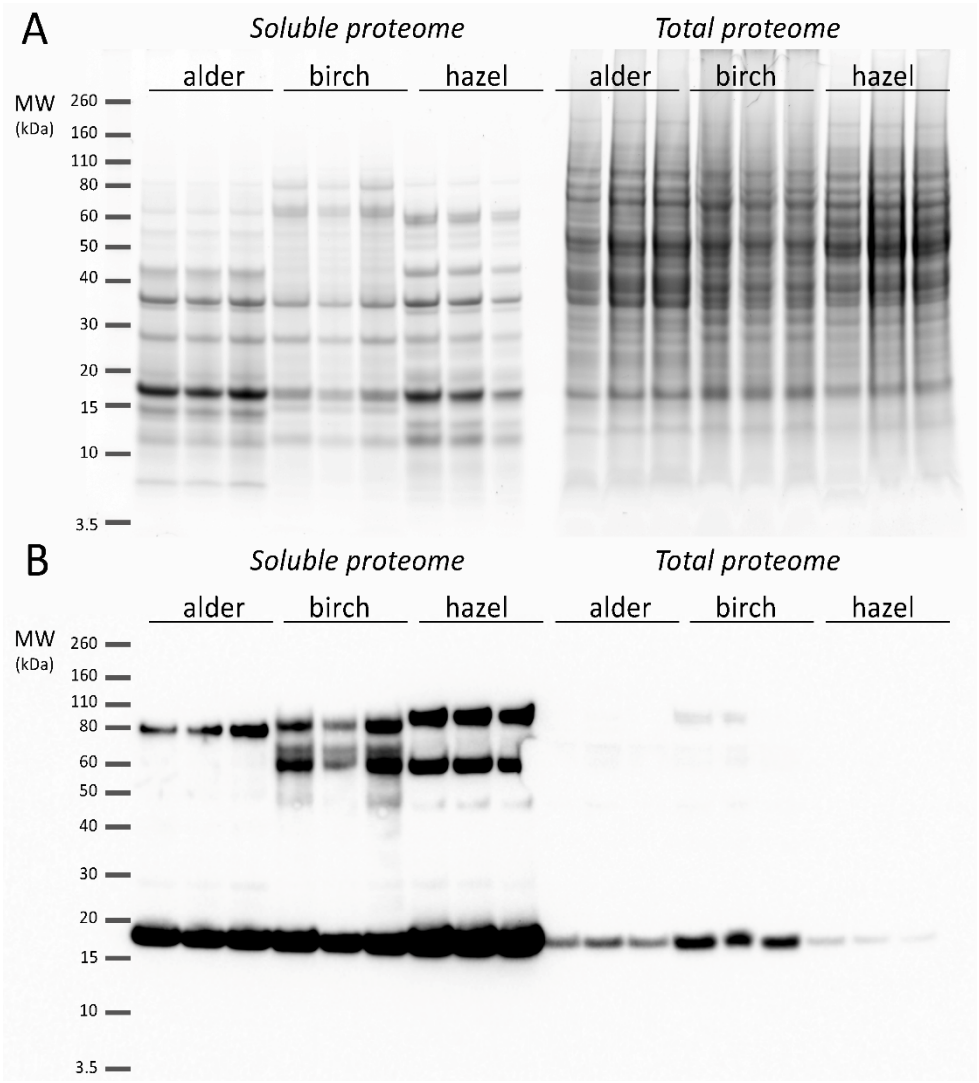


Figure 1

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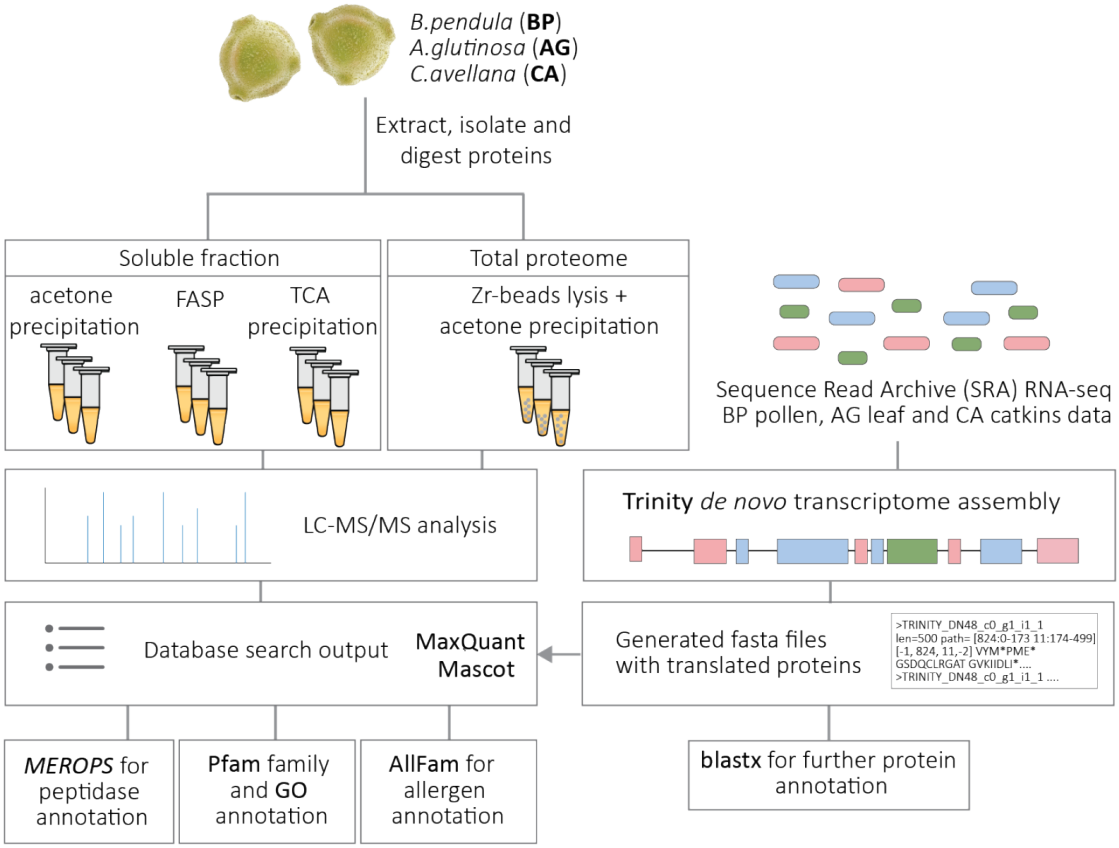


Figure 2

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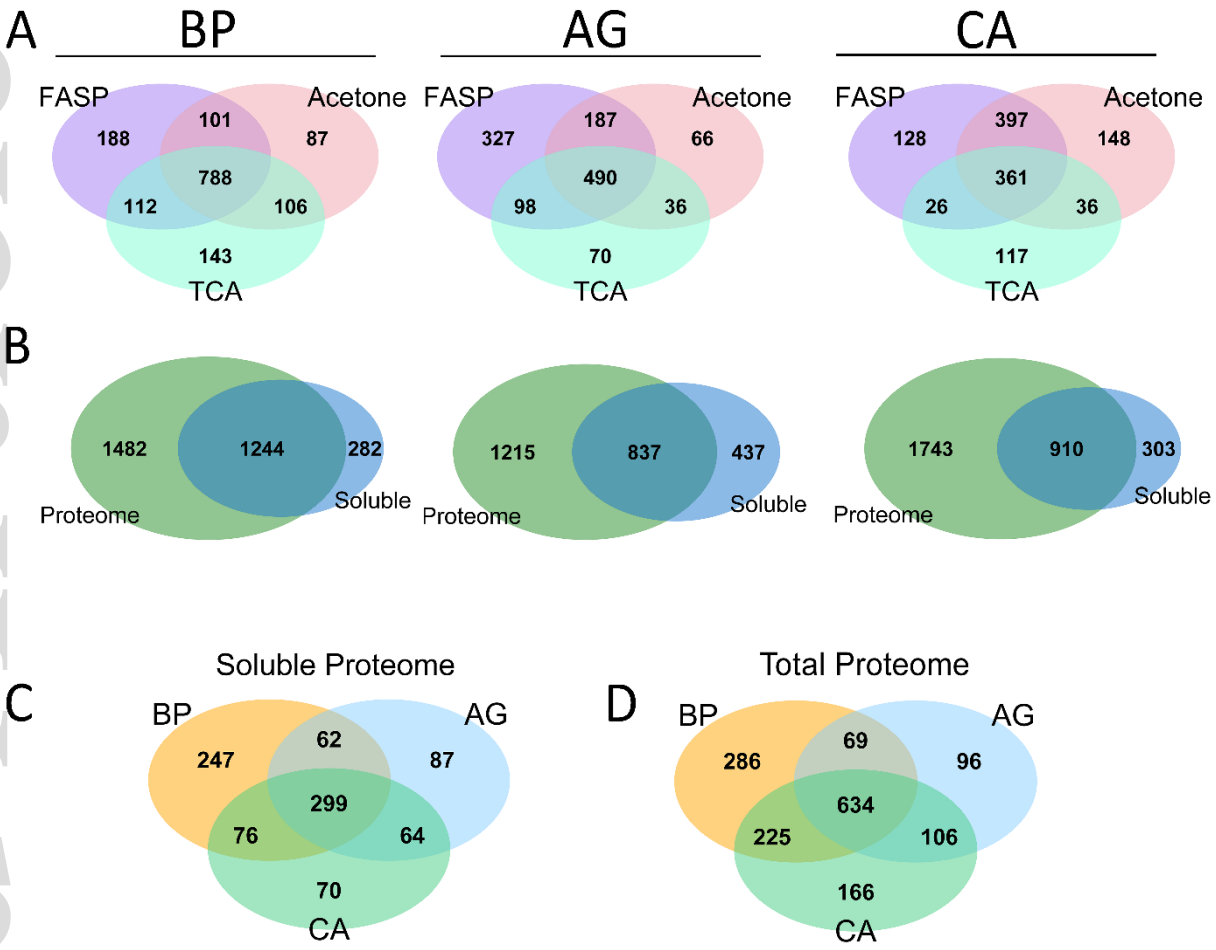


Figure 3

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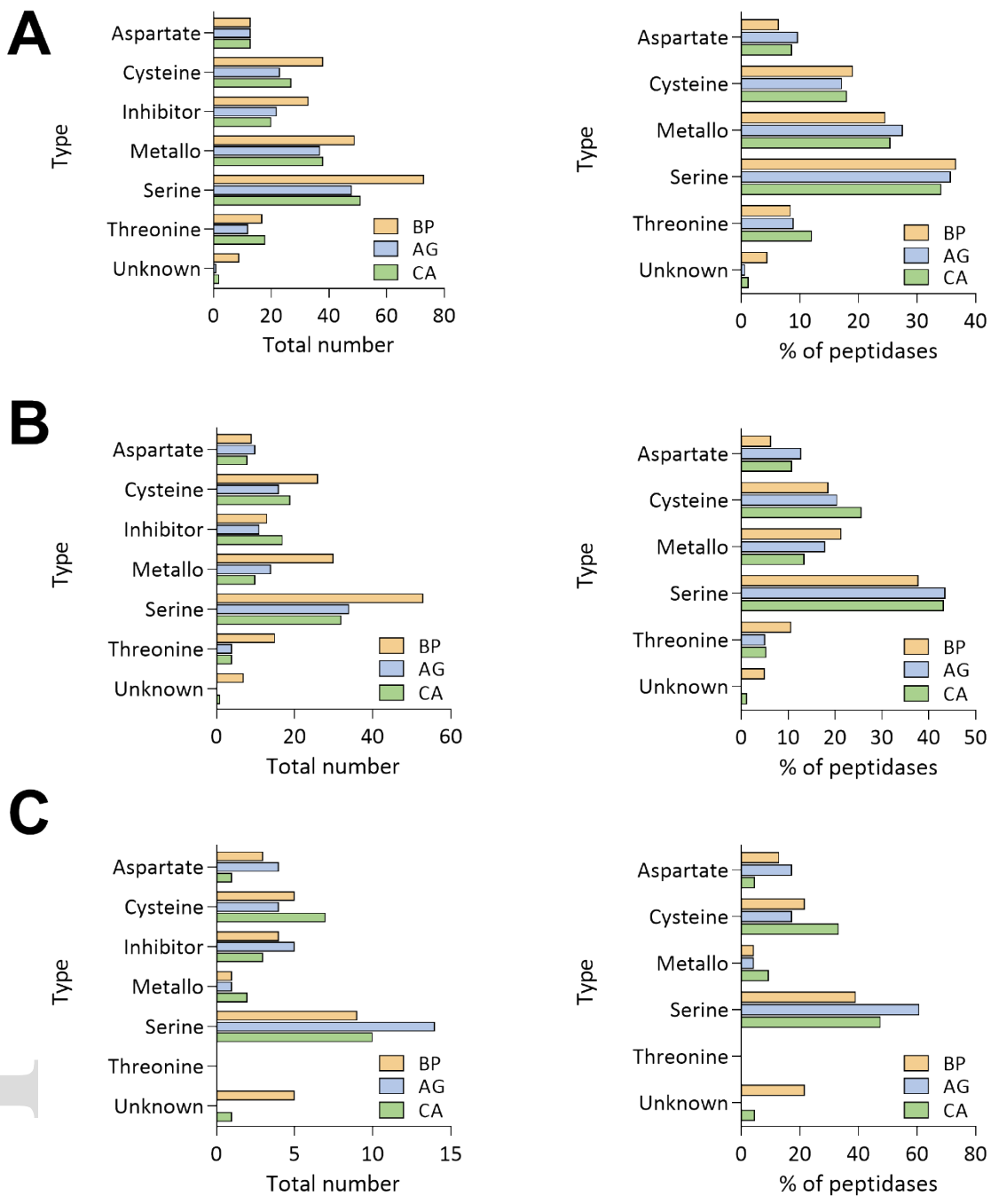
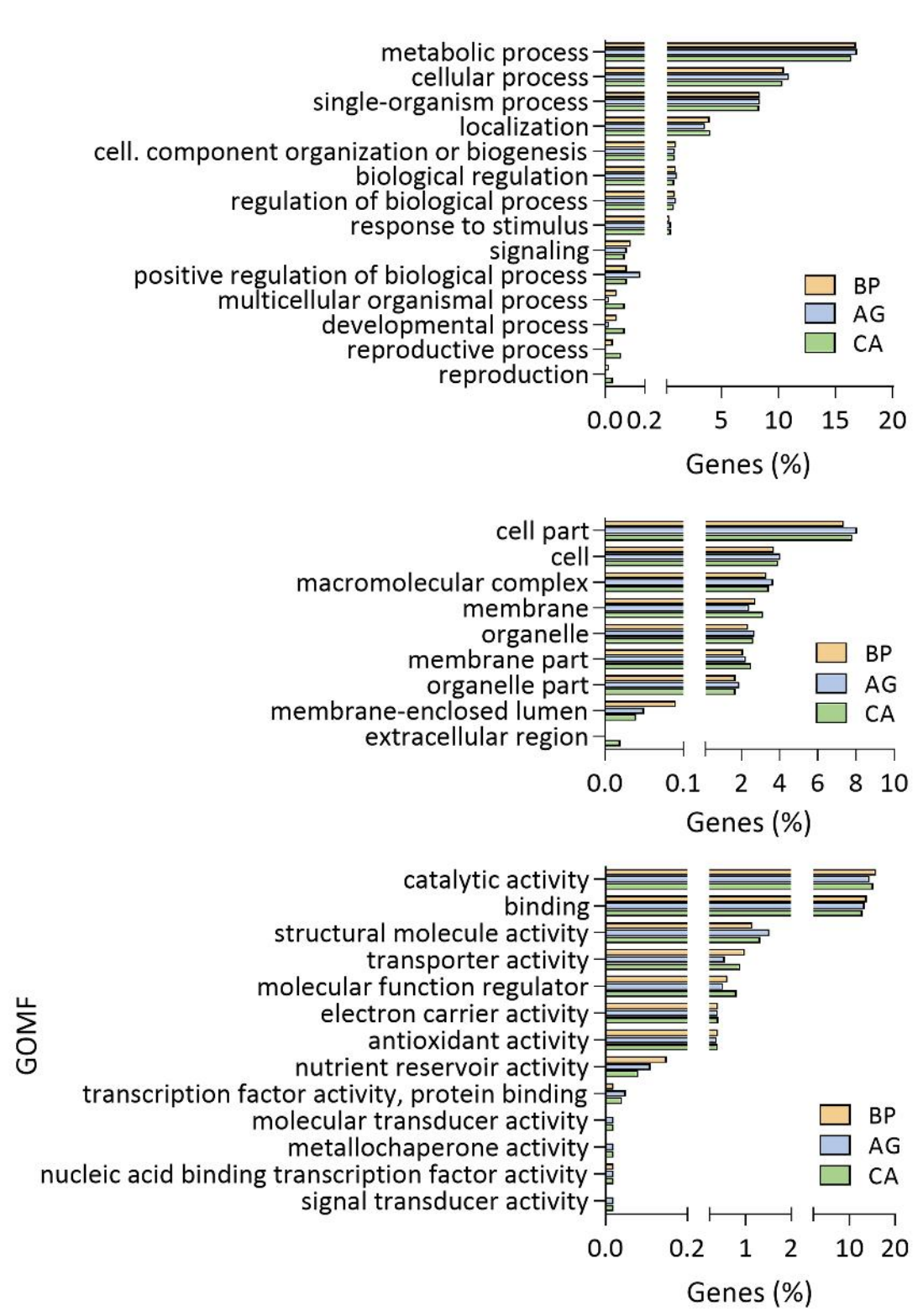


Figure 4

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metabolic process
cellular process
single-organism process
localization
cell. component organization or biogenesis
biological regulation
regulation of biological process
response to stimulus
signaling
positive regulation of biological process
multicellular organismal process
developmental process
reproductive process
reproduction
BP
AG
CA
0.0 0.2 5 10 15 20
Genes (%)
cell part
cell
macromolecular complex
membrane
organelle
membrane part
organelle part
membrane-enclosed lumen
extracellular region
BP
AG
CA
0.0 0.1 2 4 6 8 10
Genes (%)
GOMF
catalytic activity
binding
structural molecule activity
transporter activity
molecular function regulator
electron carrier activity
antioxidant activity
nutrient reservoir activity
transcription factor activity, protein binding
molecular transducer activity
metallochaperone activity
nucleic acid binding transcription factor activity
signal transducer activity
BP
AG
CA
0.0 0.2 1 2 10 20
Genes (%)

Comparative proteomics of common allergenic tree pollens of birch, alder and hazel

Short title: Comparative proteomics of birch, alder and hazel pollens

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SUPPLEMENTARY METHODS

If not stated otherwise, all materials were obtained from Sigma Aldrich.

Protein sample preparation from water-soluble fraction

Aliquots of 50 µg protein were subjected to either acetone or trichloroacetic acid (TCA) precipitation or modified Filter Aided Sample Preparation (FASP) [1] using Amicon Ultra 3kDa cut-off filters (Millipore, USA). For acetone precipitation, samples were diluted with four volumes of acetone, then incubated over-night at - 20 °C. For TCA precipitation, samples were diluted up to 100 µl with 50 % TCA prior overnight incubation at - 20 °C. The following day, protein pellets from acetone and TCA precipitations obtained after centrifugation were re-solubilized in TFE buffer (25 % trifluoroethanol (TFE), 100 mM Tris-HCl, 10 mM Tris(2-carboxyethyl) phosphine (TCEP) and 40 mM chloroacetamide (CAA)), then incubated for 10 min at 95 °C. Consequently, samples were diluted with 25 mM ammonium bicarbonate to reach 10 % TFE and digested overnight with trypsin. For FASP, in brief, the acetone precipitate was re-solubilized with FASP buffer (100 mM TrisHCl pH 8.5, 1 % SDS, 10 mM TCEP and 40 mM CAA). The FASP buffer (on cut-off filters) was exchanged three times with 8 M Urea, 100 mM Tris-HCl (pH 8.5), after which samples were predigested with rLysC (Promega, USA; enzyme/protein 1:100) for 4 hours at 37 °C. Samples were then diluted to 2 M Urea with 100 mM ammonium

bicarbonate and digested with trypsin (Promega, USA; enzyme/ protein 1:50) overnight. Peptides were collected by centrifugation for 45 min at 14,000 *g* at room temperature (RT) and acidified with formic acid (FA; final concentration 0.1 %). For desalting, 3 µg of all digests were brought to a volume of 100 µl with 1 % trifluoroacetic acid in water and loaded onto self-packed 2-layer (18 gauge) 200 µl SDB-RPS Stage Tips (Empore SPE Disks, Sigma-Aldrich). The samples were passed through the stage tips by centrifugation (5 min, 1,500 *g*, RT), washed with 0.2 % trifluoroacetic acid, eluted with 5 % NH_4OH / 80 % acetonitrile into a new tube and dried using a vacuum concentrator.

Protein sample preparation from harsh lysis (beads)

Proteins were precipitated with four volumes of acetone over-night and obtained protein pellets were re-solubilized in TFE buffer (25 % TFE, 100 mM Tris HCl pH 8.5), then diluted with 50 mM ammonium bicarbonate (to reach 10 % TFE). Next, diluted samples were predigested with rLysC (Promega, USA; enzyme/protein 1:100) for 4 hours at 37 °C and, lastly, digested overnight with trypsin (Promega, USA; enzyme/ protein 1:50) overnight. Desalting was performed as described above.

Gel electrophoresis and Western Blot analysis of pollens' allergenic potential

Soluble and total protein extracts from three different pollen species were prepared as described above. Consequently, 30 µg of protein extract per each replicate/species was separated on SDS polyacrylamide gels using MES SDS running buffer (Invitrogen-Thermo Fisher Scientific, USA). For the SDS-PAGE analysis of protein profiles, gel-separated proteins were stained with Krypton fluorescent protein stain (Thermo Fisher Scientific, USA) according to manufacturer's instruction and visualized using Bio-Rad FX Imager (Bio-Rad, USA). For Western Blot analysis of allergenic potential of protein extracts, gel-separated proteins were transferred onto a nitrocellulose membrane (Amersham Protran, Cytiva, USA), which was then blocked for one hour at RT in 5 % milk in tris-buffer saline supplied with 1 % Tween 20 (TBST), and consequently incubated over night at 4 ° C with pooled human serum collected from five allergenic individuals (1 – 1.5 ml per individual). On the following day, after several rounds of washing with TBST, membrane was incubated for one hour at the RT with mouse monoclonal horseradish peroxidase (HRP) linked antibody against human immunoglobulin E (IgE; 1:1000 dilution in TBST; ab99806, Abcam, UK). Membrane was then again repeatedly washed with TBST, incubated with enhanced chemiluminescent (ECL) substrate kit (Pierce, Thermo Fisher Scientific, USA) and visualized using chemiluminescence channel on Bio-Rad FX Imager (Bio-Rad, USA).Liquid chromatography coupled mass spectrometry (LC-MS/MS) analyses

500 ng per sample (re-dissolved in 2 % acetonitrile / 0.1 % formic acid in water) was subjected to LC-MS/MS analysis. Protein digests were separated by nano-HPLC (Dionex Ultimate 3000, Thermo Fisher Scientific, USA) equipped with an Aurora (Ionoptics, Australia) nanocolumn (C18, 1.6 µm, 250 x 0.075 mm) at a flow rate of 300 nl/min at 50 °C using the following gradient, where solvent A is 0.1 % FA in water and solvent B is acetonitrile containing 0.1 % FA: 0-18 min: 2 % B; 18-100 min: 2-25 % B; 100-107 min: 25-35 % B; 107-108 min: 35-95 % B; 108-118 min: 95 % B; 118-118 min: 95-2 % B; 118-133 min: 2 % B. The maXis II ETD mass spectrometer (Bruker Daltonics, Germany) was operated with the captive source in positive mode employing following settings: mass range: 200 - 2000 m/z, 2 Hz, capillary 1600 V, dry gas flow 3 L/min at 150 °C, nanoBooster 0.2 bar, precursor acquisition control top

20 (collision induced dissociation (CID)). Mass spectrometry of FASP prepared samples was carried out on an Orbitrap Velos Pro (Thermo Fisher Scientific, USA) operated in positive mode with top 10 precursors fragmentation mode by alternating full scan MS (m/z 300 to 2000, 60000 resolution) in the ion cyclotron resonance (ICR) cell and MS/MS by CID of the 10 most intense peaks in the ion trap with dynamic exclusion enabled. The mass spectrometry proteomics data were deposited to the ProteomeXchange Consortium [2] via the partner repository with the dataset identifier PXD021133.(username: reviewer_pxd021133@ebi.ac.uk, password: wAcP2dY5)

LC-MS/MS data analysis

As there were no comprehensive pollen protein databases available, pollen transcriptomes obtained from public RNA-seq runs from NCBI Sequence Read Archive (SRA) had to be taken as sources for database generation: SRR5485724 for birch [3], SRR513138 for hazel [4] and for alder SRR3486362, SRR3486361 (from project: White Alder - pooled seedling leaf RNAs from ozone treatments), SRR3486364 and SRR3486363 (from project: Red Alder - pooled seedling leaf RNAs from ozone treatments). Trinity [5] pipeline was employed for *de novo* transcriptome assembly. After six frame translation with Emboss, the generated protein databases were used for data analysis using MaxQuant 1.6.6.0 [6]. Additionally, common contaminants were considered in the search. The following search settings were used: Cysteine carbamidomethylation was set as fixed modification and methionine oxidation was considered as variable. Digestion enzyme was trypsin with a maximum of two missed-cleavage sites allowed. Acceptance parameters for identification were set to 1 % false discovery rate (FDR) for peptide-spectrum matching (PSM), protein as well as site decoy fraction. In order to obtain further information regarding the role of "translated" proteins, the assembled transcripts were annotated by blastx using the NCBI non-redundant protein sequences of the following taxonomies (TXID: 3505 [*Betula pendula*], TXID: 3517: [*Alnus glutinosa*], TXID 3814 [*Papilionoideae*], TXID 13451 [*Corylus avellana*], TXID 16718 [*Juglans*], TXID 171637 [*Amygdaloideae*], TXID 235631 [*Crotonoideae*] and TXID 238069 [*Saliceae*]) as database. The e-value cut off for blastx was set to 0.001. For the Pfam (version 30) based annotations we used the Pfam annotator (PfamScan). For the gene ontology (GO) classification the Pfam2go mapping was used (http://geneontology.org/Pfam2go). The GO terms were tracked back up to GO level 2 using CateGOrizer [7]. For the MEROPS [8] based annotations a blastx was done against all peptides classified, with an e-value cut off of 0.001. Allergens were further annotated using the AllFam database [9]. It is noteworthy to mention that for the different sample preparation methods of the soluble fraction as well as for the total proteome, the reported number of identified proteins represents the sum of all identified protein obtained from measuring triplicates or quadruplicates per each pollen species.

Ethical aspects

The use of human biomaterials was approved by the Ethics committee of the Medical University of Graz (29-392 ex 16/17) and conformed with all pertaining regulations and the principles of the Declaration of Helsinki [10]. Patients provided written informed consent to participate in the study.

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SUPPLEMENTARY FIGURES

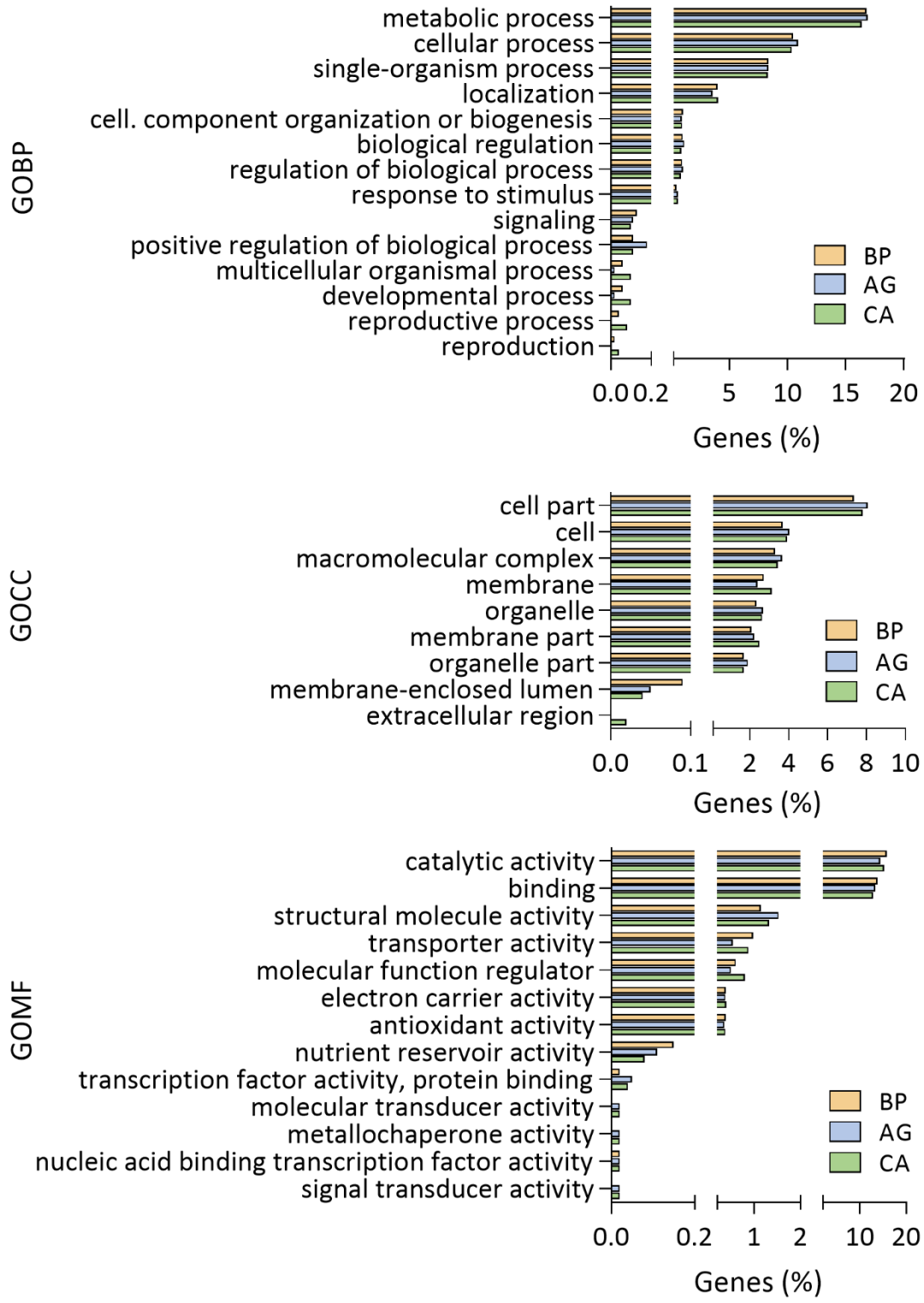


Figure S1. Gene ontology annotation of identified proteins as input. GOBP – Gene ontology annotation of biological process, GOMF – Gene ontology annotation of molecular function, GOCC – Gene ontology annotation of cellular compartment. AG - *Alnus glutinosa,* BP - *Betula pendula,* CA - *Corylus avellana*

SUPPLEMENTARY FASTA files

The protein and RNA-sequences from all identified proteins from all 3 species can be downloaded here:

http://omicscentergraz.at/resources.html

SUPPLEMENTARY TABLES

S1_Corylus_pfam.pdf

This table lists all proteins identified from *Corylus avellana* in the total proteome and the soluble proteome with Pfam annotation. Where MQ Score = max quant score, bitscore = For each Pfam family, a bit score gathering (GA) threshold I set by hand, such that all sequences scoring at or above this threshold appear in the full alignment;, e-value [Pfam] = The E-value is the number of hits that would be expected to have a score equal to or better than this value by chance alone. A good E-value is much less than 1.

S2_Corylus_Intensities.pdf

This table lists all proteins identified from *Corylus avellana* in the total proteome and the soluble proteome including the raw-intensities. Where fasp = Filter Aided Sample Preparation; tca = precipitation with tricloroacetic acid; zc = lysis with zirconium beads; Intensity = raw intensities from max quant search;

S3_Corylus_blastx.pdf

This table lists all proteins identified from *Corylus avellana* in the total proteome and the soluble proteome including blastx annonation. Hit1 = blastx top hit; hit2 = blastx top2 hit; e-value = The BLAST E-value is the number of expected hits of similar quality (score) that could be found just by chance; Bit score = The higher the bit-score, the better the sequence similarity. The bit-score is the requires size of a sequence database in which the current match could be found just by chance. The bit-score is a log2 scaled and normalized raw-score. Each increase by one doubles the required database size (2bit-score).

S4_Betula_pfam.pdf

This table lists all proteins identified from *Betula pendula* in the total proteome and the soluble proteome with Pfam annotation. Where MQ Score = max quant score, bitscore = For each Pfam family, a bit score gathering (GA) threshold I set by hand, such that all sequences scoring at or above this threshold appear in the full alignment, e-value [Pfam] = The E-value is the number of hits that would be expected to have a score equal to or better than this value by chance alone. A good E-value is much less than 1.

S5_Betula_Intensities.pdf

This table lists all proteins identified from *Betula pendula* in the total proteome and the soluble proteome including the raw-intensities. Where fasp = Filter Aided Sample Preparation; tca = precipitation with tricloroacetic acid; zc = lysis with zirconium beads; Intensity = raw intensities from max quant search;

S6_Betula_blastx.pdf

This table lists all proteins identified from *Betula pendula* in the total proteome and the soluble proteome including blastx annonation. hit1 = blastx top hit; hit2 = blastx top2 hit; e-value = The BLAST E-value is the number of expected hits of similar quality (score) that could be found just by chance; Bit score = The higher the bit-score, the better the sequence similarity. The bit-score is the requires size of a sequence database in which the current match could be found just by chance. The bit-score is a log2 scaled and normalized raw-score. Each increase by one doubles the required database size (2bit-score).

S7_Alnus_pfam.pdf

This table lists all proteins identified from *Alnus glutinosa* in the total proteome and the soluble proteome with Pfam annotation. Where MQ Score = max quant score, bitscore = For each Pfam family, a bit score gathering (GA) threshold I set by hand, such that all sequences scoring at or above this threshold appear in the full alignment, e-value [Pfam] = The E-value is the number of hits that would be expected to have a score equal to or better than this value by chance alone. A good E-value is much less than 1.

S8_Alnus_Intensities.pdf

This table lists all proteins identified from *Alnus glutinosa* in the total proteome and the soluble proteome including the raw-intensities. Where fasp = Filter Aided Sample Preparation; tca = precipitation with tricloroacetic acid; zc = lysis with zirconium beads; Intensity = raw intensities from max quant search;

S9_Alnus_blastx.pdf

This table lists all proteins identified from *Alnus glutinosa* in the total proteome and the soluble proteome including blastx annonation. Hit1 = blastx top hit; hit2 = blastx top2 hit; e-value = The BLAST E-value is the number of expected hits of similar quality (score) that could be found just by chance; Bit score = The higher the bit-score, the better the sequence similarity. The bit-score is the requires size of a sequence database in which the current match could be found just by chance. The bit-score is a log2 scaled and normalized raw-score. Each increase by one doubles the required database size (2bit-score).

S10_Corylusavellana_allergens

Known allergens detected in the proteome of *Corylus avellana* (total and soluble) additionally annotated using Allergome database.

S11_Betulapendula_allergens

Known allergens detected in the proteome of *Betula pendula* (total and soluble) additionally annotated using Allergome database.

S12_Alnusglutinosa_allergens

Known allergens detected in the proteome of *Alnus glutinosa* (total and soluble) additionally annotated using Allergome database.

S13_Betula_totalpeptidases.pdf

All proteins (total and soluble) from *Betula pendula* annotated as peptidases with the help of MEROPS can be found in this table.

S14_Alnus_totalpeptidases.pdf

All proteins (total and soluble) from *Alnus glutinosa* annotated as peptidases with the help of MEROPS can be found in this table.

S15_Corylus_totalpeptidases.pdf

All proteins (total and soluble) from *Corylus avellana* annotated as peptidases with the help of MEROPS can be found in this table.

S16_Betula_soluble_peptidases.pdf

All proteins from the soluble fraction from *Betula pendula* annotated as peptidases with the help of MEROPS can be found in this table.

S17_Betula_exclusively_soluble_peptidases.pdf

All proteins exclusively found in the soluble fraction from *Betula pendula* annotated as peptidases with the help of MEROPS can be found in this table.

S18_Alnus_soluble_peptidases.pdf

All proteins from the soluble fraction from *Alnus glutinosa* annotated as peptidases with the help of MEROPS can be found in this table.

S19_Alnus_exclusively_soluble_peptidases.pdf

All proteins exclusively found in the soluble fraction from *Alnus glutinosa* annotated as peptidases with the help of MEROPS can be found in this table.

S20_Corylus_soluble_peptidases.pdf

All proteins from the soluble fraction from *Corylus avellana* annotated as peptidases with the help of MEROPS can be found in this table.

S21_Corylus_exclusively_soluble_peptidases.pdf

All proteins exclusively found in the soluble fraction from *Corylus avellana* annotated as peptidases with the help of MEROPS can be found in this table.

Supplementary Table S1: Pfam annotation of identified Corylus pollen proteins

Protein IDs	Peptide counts (all)	Sequence coverage [%]	Mol. weight [kDa]	MQ Score	Pfam accession	Pfam family name	bitscore	e-value [Pfam]	clan
TRINITY_DN8608_c2_g1_i2_5	11	47,9	23,435	323,31	PF00407.18	Bet_v_1	88,9	2,90E-25	CL0209
TRINITY_DN11207_c0_g1_i2_3	13	52,3	24,044	323,31	PF00407.18	Bet_v_1	88,1	4,80E-25	CL0209
TRINITY_DN9484_c0_g1_i1_5	27	56,4	55,056	323,31	PF00162.18	PGK	552,7	3,50E-166	No_clan
TRINITY_DN7872_c0_g1_i3_6	9	44,4	26,278	323,31	PF00076.21	RRM_1	75,9	1,40E-21	CL0221
TRINITY_DN10821_c0_g1_i5_2	15	41,2	41,714	323,31	PF05368.12	NmrA	289,3	1,90E-86	CL0063
TRINITY_DN11055_c0_g2_i3_5	27	60,2	53,494	323,31	PF07992.13	Pyr_redox_2	194	3,00E-57	CL0063
TRINITY_DN9053_c0_g1_i5_1	31	65,6	61,234	323,31	PF01704.17	UDPGP	612,1	3,50E-184	CL0110
TRINITY_DN10419_c0_g1_i1_1	29	49,1	75,178	323,31	PF01676.17	Metalloenzyme	345,7	1,20E-103	CL0088
TRINITY_DN11591_c0_g3_i5_3	9	36,8	27,18	323,31	PF00160.20	Pro_isomerase	160,7	3,10E-47	CL0475
TRINITY_DN11331_c0_g10_i2_1	10	53,5	16,89	323,31					
TRINITY_DN8476_c0_g1_i1_3	16	43,7	35,132	323,31	PF13417.5	GST_N_3	76,3	1,70E-21	CL0172
TRINITY_DN10442_c0_g1_i1_2	17	58,8	34,484	323,31	PF00248.20	Aldo_ket_red	157,5	3,60E-46	No_clan
TRINITY_DN9319_c0_g1_i1_2	19	48,7	51,488	323,31	PF00295.16	Glyco_hydro_28	335,5	2,80E-100	CL0268
TRINITY_DN9571_c0_g1_i2_3	9	29,4	40,827	323,31	PF00903.24	Glyoxalase	80	1,60E-22	CL0104
TRINITY_DN13451_c0_g2_i1_3	3	23,4	16,546	87,209					
TRINITY_DN8018_c0_g1_i2_4	6	22,3	24,579	114,01	PF00234.21	Tryp_alpha_amyl	28,4	1,60E-06	CL0482
TRINITY_DN10804_c2_g1_i1_3	12	36,9	42,601	323,31	PF00121.17	TIM	291	5,80E-87	CL0036
TRINITY_DN10890_c0_g3_i4_6	8	15,1	64,671	323,31	PF00295.16	Glyco_hydro_28	113,3	1,10E-32	CL0268
TRINITY_DN8608_c2_g1_i1_5	8	47,6	15,827	323,31	PF00407.18	Bet_v_1	58,3	7,70E-16	CL0209
TRINITY_DN6026_c0_g1_i1_2	8	34,7	24,033	323,31	PF00240.22	ubiquitin	115,1	7,90E-34	CL0072
TRINITY_DN11331_c0_g10_i3_1	10	51,7	15,737	323,31					
TRINITY_DN13307_c0_g1_i1_1	5	34	22,059	260,65	PF00235.18	Profilin	143,7	3,20E-42	CL0431
TRINITY_DN11501_c0_g1_i5_2	29	46,5	90,605	323,31	PF08267.11	Meth_synt_1	394,3	4,20E-118	CL0160
TRINITY_DN9487_c0_g3_i2_5	27	57,5	57,73	323,31	PF03952.15	Enolase_N	183	2,30E-54	CL0227
TRINITY_DN10587_c0_g1_i1_3	8	32,4	33,384	323,31	PF00254.27	FKBP_C	115,6	9,10E-34	CL0487
TRINITY_DN10479_c0_g2_i1_3	8	39,5	22,164	323,31	PF04043.14	PMEI	96,4	2,00E-27	No_clan
TRINITY_DN11616_c0_g1_i2_1	24	44,4	73,957	323,31	PF02878.15	PGM_PMM_I	114,4	2,90E-33	No_clan
TRINITY_DN4595_c0_g1_i1_3	2	23	11,12	95,701					
TRINITY_DN3727_c0_g2_i1_1	7	24,8	29,592	323,31	PF00838.16	TCTP	190	3,30E-56	CL0080
TRINITY_DN9731_c0_g1_i1_1	25	50,3	57,717	323,31	PF00262.17	Calreticulin	201,5	1,70E-59	CL0004

TRINITY_DN3709_c0_g1_i1_3	15	39,8	46,895	323,31	PF00056.22	Ldh_1_N	112,9	1,10E-32	CL0063
TRINITY_DN9065_c0_g1_i1_1	31	55,4	71,591	323,31	PF10509.8	GalKase_gal_bdg	76,2	9,40E-22	CL0329
TRINITY_DN11320_c0_g1_i11_3	22	42,7	46,219	323,31					
TRINITY_DN6201_c0_g1_i1_1	13	31,3	32,405	323,31	PF13499.5	EF-hand_7	54,5	1,10E-14	CL0220
TRINITY_DN6019_c0_g1_i1_3	21	44,3	56,627	323,31	PF00923.18	TAL_FSA	257,1	1,90E-76	CL0036
TRINITY_DN10785_c0_g1_i3_3	6	46,9	20,729	323,31	PF04043.14	PMEI	104,5	6,10E-30	No_clan
TRINITY_DN10341_c0_g2_i1_1	20	45	47,411	323,31	PF08240.11	ADH_N	37,7	1,30E-09	CL0296
TRINITY_DN10479_c0_g1_i2_1	12	42,7	29,353	323,31	PF04043.14	PMEI	115,4	2,70E-33	No_clan
TRINITY_DN10144_c0_g1_i2_2	11	43,6	22,646	323,31	PF01190.16	Pollen_Ole_e_I	61	1,00E-16	No_clan
TRINITY_DN5870_c0_g1_i2_4	7	47,5	21,339	323,31	PF00462.23	Glutaredoxin	73,8	8,60E-21	CL0172
TRINITY_DN10438_c0_g2_i1_2	12	42,3	42,265	323,31	PF01263.19	Aldose_epim	324,6	5,40E-97	CL0103
TRINITY_DN8953_c0_g1_i1_1	11	52,7	22,055	323,31	PF00903.24	Glyoxalase	30,9	2,40E-07	CL0104
TRINITY_DN9146_c0_g3_i2_3	31	41,4	87,956	323,31	PF00012.19	HSP70	871,8	1,80E-262	CL0108
TRINITY_DN10397_c0_g1_i2_5	8	35,2	23,909	227,92	PF00160.20	Pro_isomerase	156,3	7,00E-46	CL0475
TRINITY_DN10647_c0_g1_i1_4	11	25,2	43,928	204,38	PF02798.19	GST_N	58,1	7,80E-16	CL0172
TRINITY_DN11581_c0_g2_i3_2	8	39,6	24,444	323,31	PF00141.22	peroxidase	60,8	1,40E-16	CL0617
TRINITY_DN7958_c0_g4_i1_6	8	23,9	40,468	301,69	PF00071.21	Ras	167,3	1,90E-49	CL0023
TRINITY_DN10683_c0_g1_i3_5	8	41,4	30,004	228,93	PF00255.18	GSHPx	143,4	1,60E-42	CL0172
TRINITY_DN11604_c0_g1_i6_2	11	42,4	34,234	323,31	PF08241.11	Methyltransf_11	37,8	2,00E-09	CL0063
TRINITY_DN9279_c0_g1_i1_1	13	52,3	26,866	323,31	PF13405.5	EF-hand_6	28,2	9,70E-07	CL0220
TRINITY_DN11174_c0_g1_i5_1	10	30,1	50,288	323,31	PF00112.22	Peptidase_C1	280,3	1,30E-83	CL0125
TRINITY_DN11394_c0_g1_i1_2	22	46,2	60,912	323,31	PF00996.17	GDI	741,8	1,70E-223	CL0063
TRINITY_DN10920_c0_g1_i2_3	17	48,9	45,664	323,31	PF00294.23	PfkB	262,3	5,40E-78	CL0118
TRINITY_DN13244_c0_g1_i1_3	5	33,7	18,455	323,31	PF04043.14	PMEI	49,2	6,50E-13	No_clan
TRINITY_DN10804_c1_g1_i1_3	7	34,8	16,854	120,61	PF00121.17	TIM	127,6	4,70E-37	CL0036
TRINITY_DN10010_c0_g1_i2_4	10	27,3	50,872	323,31	PF00903.24	Glyoxalase	78,9	3,50E-22	CL0104
TRINITY_DN11304_c0_g1_i5_2	13	29,4	49,872	323,31	PF05221.16	AdoHcyase	226,5	3,70E-67	CL0325
TRINITY_DN14318_c0_g1_i1_5	1	7,8	14,25	6,4776					
TRINITY_DN11227_c0_g1_i5_5	9	33,8	35,227	306,54	PF01738.17	DLH	193,5	3,10E-57	CL0028
TRINITY_DN4231_c0_g1_i1_1	4	21,9	17,61	110,73	PF11976.7	Rad60-SLD	85	2,20E-24	CL0072
TRINITY_DN10618_c0_g1_i1_3	17	42,3	53,033	280,58	PF01965.23	DJ-1_PfpI	141,9	1,40E-41	CL0014
TRINITY_DN9827_c0_g1_i1_5	2	6,6	25,992	35,804	PF00550.24	PP-binding	42,8	4,80E-11	CL0314
TRINITY_DN7126_c0_g3_i1_3	9	29	25,513	323,31	PF02970.15	TBCA	93,4	7,30E-27	No_clan

TRINITY_DN11590_c1_g1_i1_3	11	30,2	44,936	309,6	PF01370.20	Epimerase	83,4	1,50E-23	CL0063
TRINITY_DN11652_c0_g1_i2_1	27	34,8	91,823	323,31	PF02518.25	HATPase_c	59,3	4,40E-16	CL0025
TRINITY_DN5250_c0_g1_i1_1	7	33	23,306	323,31	PF16845.4	SQAPI	80,7	7,10E-23	CL0121
TRINITY_DN11459_c1_g2_i2_1	27	44,3	79,297	323,31	PF00012.19	HSP70	873	7,90E-263	CL0108
TRINITY_DN10499_c0_g1_i1_2	16	40	52,119	323,31	PF08240.11	ADH_N	82,7	1,50E-23	CL0296
TRINITY_DN8634_c0_g1_i1_1	10	36,9	36,039	177,67	PF00257.18	Dehydrin	36,5	6,50E-09	No_clan
TRINITY_DN10893_c0_g1_i1_2	5	28,8	20,655	323,31	PF04043.14	PMEI	68,6	6,70E-19	No_clan
TRINITY_DN9811_c0_g1_i2_3	5	24,1	28,385	177,07	PF00080.19	Sod_Cu	165,5	7,20E-49	No_clan
TRINITY_DN8650_c0_g2_i3_2	20	52,1	46,868	318,17	PF03214.12	RGP	592,8	1,80E-178	CL0110
TRINITY_DN11653_c0_g1_i19_5	13	41,1	47,717	304,72	PF00022.18	Actin	490,7	2,40E-147	CL0108
TRINITY_DN8041_c0_g1_i2_3	23	57,4	49,238	323,31	PF00274.18	Glycolytic	573,6	1,00E-172	CL0035
TRINITY_DN14244_c0_g1_i1_2	4	36,7	15,05	191,09	PF03168.12	LEA_2	69,8	2,10E-19	CL0159
TRINITY_DN10590_c0_g2_i1_2	11	41,1	41,459	323,31	PF14543.5	TAXi_N	159,2	1,20E-46	CL0129
TRINITY_DN3503_c0_g1_i2_1	5	82,1	13,905	243,95	PF00036.31	EF-hand_1	31,6	6,10E-08	CL0220
TRINITY_DN10155_c0_g1_i1_2	12	44,5	37,157	217,34	PF13419.5	HAD_2	107,1	9,50E-31	CL0137
TRINITY_DN11019_c0_g1_i1_2	21	47,1	65,249	323,31	PF03721.13	UDPG_MGDP_dh_N	227,3	9,70E-68	CL0063
TRINITY_DN10859_c0_g1_i1_2	6	31,5	20,699	323,31	PF00254.27	FKBP_C	87,1	6,70E-25	CL0487
TRINITY_DN10804_c0_g1_i1_2	7	51	21,799	153,47	PF00121.17	TIM	157,4	3,60E-46	CL0036
TRINITY_DN7252_c0_g4_i3_3	29	37,4	101,56	323,31	PF02518.25	HATPase_c	47	3,10E-12	CL0025
TRINITY_DN11092_c0_g1_i2_3	11	51,2	36,118	323,31	PF13460.5	NAD_binding_10	116,2	1,50E-33	CL0063
TRINITY_DN11258_c0_g1_i2_3	14	44,2	38,645	323,31	PF00244.19	14-3-3	346,3	6,00E-104	No_clan
TRINITY_DN8200_c0_g1_i1_1	15	52	37,56	323,31	PF00484.18	Pro_CA	147,7	2,90E-43	No_clan
TRINITY_DN9523_c0_g1_i1_4	11	35,8	39,493	200,3					
TRINITY_DN10459_c0_g1_i1_3	9	37,8	30,545	323,31	PF08534.9	Redoxin	111,1	3,40E-32	CL0172
TRINITY_DN11248_c1_g1_i1_3	11	39	37,199	323,31	PF00736.18	EF1_GNE	110,1	4,10E-32	No_clan
TRINITY_DN10833_c1_g2_i1_1	4	34	17,367	232,78	PF02136.19	NTF2	128,8	1,40E-37	CL0051
TRINITY_DN9054_c0_g1_i2_1	6	30,4	23,21	275,72	PF03168.12	LEA_2	64,2	1,20E-17	CL0159
TRINITY_DN11641_c0_g1_i13_1	20	42,5	68,082	323,31	PF00085.19	Thioredoxin	103,6	4,30E-30	CL0172
TRINITY_DN9275_c0_g1_i1_1	14	45,7	33,455	323,31	PF08718.10	GLTP	152,5	8,90E-45	No_clan
TRINITY_DN11496_c0_g1_i1_2	15	38,2	52,775	323,31	PF00056.22	Ldh_1_N	162,9	4,40E-48	CL0063
TRINITY_DN10665_c0_g1_i1_2	18	48,5	56,021	323,31	PF00006.24	ATP-synt_ab	209,3	4,80E-62	CL0023
TRINITY_DN11667_c0_g1_i3_3	33	36,7	109,61	323,31	PF00009.26	GTP_EFTU	218,7	4,60E-65	CL0023

TRINITY_DN2899_c0_g1_i1_1	6	36,6	22,217	205,82	PF00235.18	Profilin	127,3	3,80E-37	CL0431
TRINITY_DN5468_c0_g2_i2_1	6	20,8	27,425	323,31					
TRINITY_DN11591_c0_g3_i6_3	4	54,5	11,81	28,199	PF00160.20	Pro_isomerase	67,5	1,50E-18	CL0475
TRINITY_DN11204_c0_g1_i1_3	24	31,8	86,703	323,31	PF16363.4	GDP_Man_Dehyd	232,4	8,40E-69	CL0063
TRINITY_DN10703_c1_g1_i1_1	5	41,3	22,465	244,74	PF00241.19	Cofilin_ADF	127,6	2,90E-37	CL0092
TRINITY_DN11207_c0_g1_i1_3	12	45,5	25,964	297,16	PF00407.18	Bet_v_1	87,5	7,60E-25	CL0209
TRINITY_DN10743_c0_g1_i1_2	10	28,9	38,425	255,09	PF00076.21	RRM_1	28,1	1,20E-06	CL0221
TRINITY_DN8812_c0_g1_i2_1	4	27,6	23,257	60,049	PF01187.17	MIF	78,8	3,40E-22	CL0082
TRINITY_DN11581_c0_g1_i4_3	7	47,3	20,281	68,262	PF00141.22	peroxidase	117,6	6,10E-34	CL0617
TRINITY_DN9487_c0_g2_i1_5	24	48,8	61,921	323,31	PF03952.15	Enolase_N	167,7	1,20E-49	CL0227
TRINITY_DN11173_c0_g3_i1_4	11	20,2	54,292	123,7	PF00153.26	Mito_carr	80,1	7,70E-23	No_clan
TRINITY_DN5663_c0_g2_i1_3	5	31	22,337	168,99	PF00462.23	Glutaredoxin	70	1,40E-19	CL0172
TRINITY_DN9210_c0_g1_i1_1	6	24,7	21,025	289,85	PF00173.27	Cyt-b5	34,5	1,50E-08	No_clan
TRINITY_DN9779_c0_g1_i1_1	19	36,9	68,486	323,31					
TRINITY_DN16006_c0_g1_i1_2	5	52	10,596	180,28	PF04043.14	PMEI	33	6,50E-08	No_clan
TRINITY_DN5448_c0_g2_i1_3	8	34,6	26,991	323,31	PF00179.25	UQ_con	50,1	1,90E-13	CL0208
TRINITY_DN10761_c0_g1_i2_2	21	39,2	55,951	323,31	PF02798.19	GST_N	61,1	9,10E-17	CL0172
TRINITY_DN11378_c0_g1_i1_4	14	31,7	61,451	323,31	PF00464.18	SHMT	621,8	3,40E-187	CL0061
TRINITY_DN10720_c0_g2_i2_6	15	39,2	49,716	323,31	PF00044.23	Gp_dh_N	116,2	6,70E-34	CL0063
TRINITY_DN11028_c0_g2_i2_3	9	33,9	34,994	282,63	PF00071.21	Ras	220,7	7,30E-66	CL0023
TRINITY_DN10686_c0_g1_i1_3	12	21,6	73,12	223,78	PF07732.14	Cu-oxidase_3	125	1,40E-36	CL0026
TRINITY_DN10496_c0_g1_i5_3	14	44,7	45,475	323,31	PF16363.4	GDP_Man_Dehyd	191,8	1,80E-56	CL0063
TRINITY_DN11432_c0_g1_i3_6	13	50,8	42,146	323,31	PF08240.11	ADH_N	92,5	1,30E-26	CL0296
TRINITY_DN4601_c0_g1_i1_1	5	25	23,015	123,79	PF00034.20	Cytochrom_C	46,5	6,00E-12	CL0318
TRINITY_DN10681_c0_g1_i1_2	22	25,8	122,04	323,31	PF00330.19	Aconitase	600,7	1,80E-180	No_clan
TRINITY_DN10442_c0_g2_i1_4	3	29,4	15,134	150,5					
TRINITY_DN9458_c0_g1_i2_2	15	36,4	49,944	234,55	PF00085.19	Thioredoxin	107,7	2,30E-31	CL0172
TRINITY_DN8250_c0_g1_i2_3	12	32,9	46,033	206,97	PF16884.4	ADH_N_2	91,9	1,90E-26	CL0296
TRINITY_DN10239_c0_g1_i1_2	10	41,7	32,872	323,31	PF00903.24	Glyoxalase	75,6	3,60E-21	CL0104
TRINITY_DN11469_c0_g2_i3_2	1	2,8	27,599	6,3296	PF03000.13	NPH3	103,6	1,30E-29	No_clan
TRINITY_DN7240_c0_g1_i2_1	3	13,4	15,774	263,37					
TRINITY_DN4014_c0_g1_i1_2	6	24,7	28,544	114,4	PF01597.18	GCV_H	164	1,10E-48	CL0105
TRINITY_DN10537_c0_g1_i2_4	14	50	41,037	323,31	PF00056.22	Ldh_1_N	114	5,30E-33	CL0063

TRINITY_DN5324_c1_g1_i2_1	3	30,2	16,441	185,17	PF00722.20	Glyco_hydro_16	33,2	3,10E-08	CL0004
TRINITY_DN5563_c0_g1_i1_6	1	3,9	20,035	94,929					
TRINITY_DN8045_c0_g1_i1_5	6	30,5	19,209	243,51	PF00085.19	Thioredoxin	113,8	3,00E-33	CL0172
TRINITY_DN8960_c0_g1_i1_2	8	43,9	20,672	323,31	PF01042.20	Ribonuc_L-PSP	121	2,50E-35	CL0534
TRINITY_DN4028_c1_g1_i1_2	8	30,7	26,973	180,26	PF00160.20	Pro_isomerase	162,6	8,20E-48	CL0475
TRINITY_DN11269_c2_g1_i10_3	17	34,4	60,934	216,39	PF00270.28	DEAD	135,5	1,50E-39	CL0023
TRINITY_DN11656_c0_g1_i6_2	11	26,4	63,551	205,93	PF00009.26	GTP_EFTU	180	3,40E-53	CL0023
TRINITY_DN10568_c0_g3_i2_1	18	30,6	71,617	224,4	PF00262.17	Calreticulin	485,3	9,20E-146	CL0004
TRINITY_DN9271_c0_g1_i1_1	5	25,1	31,595	323,31	PF06521.10	PAR1	241	3,70E-72	No_clan
TRINITY_DN10339_c0_g2_i1_4	5	26,6	27,02	323,31	PF00173.27	Cyt-b5	90,1	7,10E-26	No_clan
TRINITY_DN8726_c0_g2_i1_5	8	27,9	42,079	124,11	PF00160.20	Pro_isomerase	166,2	6,30E-49	CL0475
TRINITY_DN11504_c0_g1_i1_3	4	11,2	33,252	87,854					
TRINITY_DN10183_c0_g2_i2_2	14	41,3	43,052	323,31	PF00121.17	TIM	301	5,10E-90	CL0036
TRINITY_DN1820_c0_g1_i1_6	6	34,2	21,857	273,94	PF04043.14	PMEI	59,7	3,70E-16	No_clan
TRINITY_DN8787_c0_g2_i1_4	2	14,9	14,314	78,592					
TRINITY_DN10196_c0_g1_i1_1	12	38,3	42,496	323,31	PF07859.12	Abhydrolase_3	148,2	2,70E-43	CL0028
TRINITY_DN10535_c0_g1_i2_3	13	41,6	30,98	189,72	PF00406.21	ADK	161	2,00E-47	CL0023
TRINITY_DN11343_c0_g1_i7_2	16	22,2	72,823	173,59	PF00006.24	ATP-synt_ab	245	5,50E-73	CL0023
TRINITY_DN9170_c0_g1_i1_1	8	31,5	35,087	152,22	PF01738.17	DLH	100,2	1,10E-28	CL0028
TRINITY_DN9813_c0_g1_i1_2	36	42,8	125,04	323,31	PF00565.16	SNase	38,8	9,80E-10	CL0049
TRINITY_DN11430_c0_g2_i4_6	16	37,2	64,231	140	PF00456.20	Transketolase_N	184,5	2,20E-54	CL0254
TRINITY_DN9475_c0_g1_i1_3	15	38,1	51,557	323,31	PF16113.4	ECH_2	367,2	9,20E-110	CL0127
TRINITY_DN11040_c0_g1_i6_1	10	24,3	55,514	186,01	PF00190.21	Cupin_1	27,5	1,80E-06	CL0029
TRINITY_DN10148_c0_g1_i6_3	11	28,1	43,926	323,31	PF00481.20	PP2C	226,5	3,90E-67	CL0238
TRINITY_DN5484_c0_g2_i1_4	1	9,8	10,723	65,712					
TRINITY_DN7458_c0_g1_i3_2	3	27,7	16,014	176,57	PF05938.10	Self-incomp_S1	42,6	6,20E-11	No_clan
TRINITY_DN7727_c0_g2_i1_3	12	37,1	47,392	323,31	PF00112.22	Peptidase_C1	281,5	5,50E-84	CL0125
TRINITY_DN18091_c0_g1_i1_4	6	42,2	12,621	86,671	PF04043.14	PMEI	48,4	1,10E-12	No_clan
TRINITY_DN10656_c0_g1_i1_2	15	42,9	60,516	323,31	PF05694.10	SBP56	722,8	1,50E-217	CL0186
TRINITY_DN7279_c0_g1_i2_5	3	27,7	22,254	323,31	PF00076.21	RRM_1	82,9	9,40E-24	CL0221
TRINITY_DN11640_c0_g2_i6_2	20	23,7	106,91	251,48	PF01301.18	Glyco_hydro_35	382	2,60E-114	CL0058
TRINITY_DN1640_c0_g2_i1_1	6	83,2	10,337	259,86	PF02874.22	ATP-synt_ab_N	64	1,30E-17	CL0275
TRINITY_DN7420_c0_g1_i1_1	6	31,5	23,698	323,31	PF06110.10	DUF953	126,7	3,20E-37	CL0172

TRINITY_DN11604_c0_g1_i5_2	10	38,7	36,068	225,82	PF08241.11	Methyltransf_11	40,2	3,70E-10	CL0063
TRINITY_DN7220_c0_g1_i2_2	20	32,3	82,054	272,22	PF00012.19	HSP70	905,9	8,80E-273	CL0108
TRINITY_DN11320_c0_g1_i7_2	11	56,2	14,479	72,315					
TRINITY_DN17793_c0_g1_i1_3	1	10,7	12,646	6,7486					
TRINITY_DN128_c0_g1_i1_1	6	28,8	19,365	67,187	PF00240.22	ubiquitin	93,2	5,40E-27	CL0072
TRINITY_DN7906_c0_g1_i1_2	6	30	23,979	55,733	PF01230.22	HIT	98	3,80E-28	CL0265
TRINITY_DN9529_c0_g1_i4_3	3	29,2	13,486	209,04	PF03330.17	DPBB_1	35,3	1,00E-08	CL0199
TRINITY_DN10188_c0_g1_i1_1	13	30,6	50,595	184,51	PF06999.11	Suc_Fer-like	145,8	1,30E-42	No_clan
TRINITY_DN10809_c0_g1_i3_1	10	24,1	49,055	103,06	PF00141.22	peroxidase	163,1	7,40E-48	CL0617
TRINITY_DN10625_c0_g1_i2_2	12	33,1	48,274	231,18	PF00438.19	S-AdoMet_synt_N	133	4,70E-39	No_clan
TRINITY_DN11635_c2_g1_i4_2	13	32,5	44,04	235,41	PF00248.20	Aldo_ket_red	247,6	1,30E-73	No_clan
TRINITY_DN11639_c0_g1_i6_3	25	42,9	78,879	323,31	PF02874.22	ATP-synt_ab_N	51,1	1,30E-13	CL0275
TRINITY_DN10727_c0_g1_i1_2	11	39,4	35,493	108,07	PF00736.18	EF1_GNE	110,2	3,80E-32	No_clan
TRINITY_DN8828_c0_g1_i1_2	2	9,3	32,318	12,667					
TRINITY_DN9853_c0_g2_i1_2	9	29	37,524	273,17	PF01095.18	Pectinesterase	379,6	6,20E-114	CL0268
TRINITY_DN17353_c0_g1_i1_1	6	21,7	37,832	46,681	PF13640.5	2OG-FeII_Oxy_3	75,3	5,00E-21	CL0029
TRINITY_DN11024_c0_g2_i1_3	7	21,6	38,529	64,788	PF00106.24	adh_short	97,8	5,10E-28	CL0063
TRINITY_DN7121_c0_g2_i1_5	13	24,6	54,94	305,54	PF00274.18	Glycolytic	523,8	1,50E-157	CL0035
TRINITY_DN8295_c0_g1_i1_3	1	11	15,933	323,31					
TRINITY_DN7552_c0_g1_i2_3	15	32,3	52,167	136,56	PF16113.4	ECH_2	367,5	7,30E-110	CL0127
TRINITY_DN11568_c0_g1_i1_2	18	32,8	78,583	209,34	PF08323.10	Glyco_transf_5	242,1	6,40E-72	CL0113
TRINITY_DN11106_c0_g1_i3_1	20	34,9	68,067	191,27	PF00085.19	Thioredoxin	107,8	2,20E-31	CL0172
TRINITY_DN8501_c0_g1_i1_2	18	35	59,519	219,02	PF00155.20	Aminotran_1_2	315,5	4,60E-94	CL0061
TRINITY_DN9729_c0_g1_i1_5	15	40,9	52,001	323,31	PF08240.11	ADH_N	103,2	6,30E-30	CL0296
TRINITY_DN11231_c0_g1_i2_3	12	32,6	53,423	266,15	PF00573.21	Ribosomal_L4	134,4	3,40E-39	No_clan
TRINITY_DN11267_c0_g1_i1_2	9	27,1	39,398	101,43	PF12481.7	DUF3700	360,9	2,10E-108	CL0052
TRINITY_DN10955_c0_g1_i6_2	11	42,1	32,362	147,57	PF00071.21	Ras	193,5	1,60E-57	CL0023
TRINITY_DN10695_c0_g1_i3_1	13	21,4	83,824	323,31	PF00076.21	RRM_1	61,5	4,70E-17	CL0221
TRINITY_DN10388_c0_g2_i5_4	13	23,4	89,715	189,5	PF00082.21	Peptidase_S8	167,5	3,70E-49	No_clan
TRINITY_DN10780_c1_g2_i1_2	5	19,7	30,577	316,02	PF00334.18	NDK	181,5	6,30E-54	No_clan
TRINITY_DN4152_c0_g3_i1_2	7	37,4	22,701	82,938					
TRINITY_DN11590_c1_g2_i1_3	7	30,3	29,736	102,86	PF01370.20	Epimerase	71,9	4,80E-20	CL0063
TRINITY_DN11603_c0_g2_i4_3	13	30,2	61,751	236,47	PF00928.20	Adap_comp_sub	111	5,80E-32	CL0448

TRINITY_DN9993_c0_g1_i2_4	12	18,6	77,715	130,71	PF00082.21	Peptidase_S8	154,2	4,20E-45	No_clan
TRINITY_DN8821_c0_g1_i2_2	9	34,6	31,186	160,09	PF00071.21	Ras	207,6	7,60E-62	CL0023
TRINITY_DN11484_c0_g1_i1_1	16	18,9	104,63	133,67	PF02854.18	MIF4G	180,1	4,10E-53	CL0020
TRINITY_DN10975_c0_g1_i1_3	10	37,5	35,052	300,84	PF01287.19	eIF-5a	99,9	5,90E-29	CL0021
TRINITY_DN908_c0_g1_i1_5	5	52,2	17,832	215,08	PF00241.19	Cofilin_ADF	123,3	5,90E-36	CL0092
TRINITY_DN4171_c0_g2_i2_3	9	27,5	49,266	221,51	PF14226.5	DIOX_N	77,3	1,40E-21	CL0029
TRINITY_DN11158_c0_g1_i1_2	8	31	34,556	323,31	PF01557.17	FAA_hydrolase	201,1	1,60E-59	CL0377
TRINITY_DN11613_c0_g1_i1_1	12	32	47,669	178,15	PF00248.20	Aldo_ket_red	255,2	6,50E-76	No_clan
TRINITY_DN10470_c0_g1_i2_2	7	29,3	34,542	323,31	PF02431.14	Chalcone	108,5	2,60E-31	CL0560
TRINITY_DN12697_c0_g1_i1_3	10	43,6	33,052	82,426	PF13472.5	Lipase_GDSL_2	107,9	6,90E-31	CL0264
TRINITY_DN6523_c0_g1_i1_1	6	30,4	28,808	103,81	PF00179.25	UQ_con	163,1	2,70E-48	CL0208
TRINITY_DN7341_c0_g1_i1_3	7	21,8	41,461	323,31	PF03079.13	ARD	216,9	1,50E-64	CL0029
TRINITY_DN8404_c0_g1_i1_3	10	37,9	39,027	323,31	PF00293.27	NUDIX	76,5	1,70E-21	CL0261
TRINITY_DN11519_c0_g1_i1_1	23	30,5	110,35	289,76	PF01602.19	Adaptin_N	438,5	2,90E-131	CL0020
TRINITY_DN9737_c2_g2_i1_1	6	23,6	37,377	323,31	PF00025.20	Arf	266,2	8,70E-80	CL0023
TRINITY_DN11533_c0_g1_i2_3	19	27,3	107,86	266,31	PF00168.29	C2	51	1,30E-13	CL0154
TRINITY_DN8820_c0_g1_i1_1	16	32,4	68,021	303,67	PF03446.14	NAD_binding_2	161	2,30E-47	CL0063
TRINITY_DN5484_c0_g1_i1_2	5	44,7	11,512	45,368	PF00887.18	ACBP	77,5	6,30E-22	CL0632
TRINITY_DN10447_c0_g1_i1_3	2	20	10,225	114,49					
TRINITY_DN431_c0_g1_i1_6	10	27,4	38,872	323,31					
TRINITY_DN9847_c0_g1_i1_1	5	29,6	25,847	295,19	PF07876.11	Dabb	71,8	5,10E-20	CL0032
TRINITY_DN11173_c0_g2_i3_4	10	22	49,436	71,112	PF00153.26	Mito_carr	82,1	1,90E-23	No_clan
TRINITY_DN6616_c0_g1_i1_4	10	29	57,799	323,31	PF00626.21	Gelsolin	26,3	4,70E-06	CL0092
TRINITY_DN5630_c0_g1_i1_3	14	42,5	38,57	190,56	PF00248.20	Aldo_ket_red	167,7	2,90E-49	No_clan
TRINITY_DN4574_c0_g1_i2_2	7	55,4	24,926	323,31	PF08534.9	Redoxin	119,8	6,90E-35	CL0172
TRINITY_DN8931_c0_g1_i1_2	7	29,1	36,045	323,31	PF00719.18	Pyrophosphatase	159,6	5,10E-47	No_clan
TRINITY_DN11512_c1_g1_i2_2	17	39,8	50,974	323,31	PF00155.20	Aminotran_1_2	313,3	2,10E-93	CL0061
TRINITY_DN5614_c0_g2_i1_2	1	5,1	25,231	6,3598					
TRINITY_DN10149_c0_g1_i2_3	14	38,3	45,845	213,41	PF00244.19	14-3-3	353,1	5,00E-106	No_clan
TRINITY_DN9287_c0_g1_i1_3	4	17,4	45,014	100,39	PF02265.15	S1-P1_nuclease	266,1	3,30E-79	CL0368
TRINITY_DN13093_c0_g1_i1_3	13	41,5	46,681	216,66	PF01704.17	UDPGP	58,8	3,40E-16	CL0110
TRINITY_DN10610_c0_g2_i1_2	15	30,1	71,218	162,11	PF02874.22	ATP-synt_ab_N	51,1	1,30E-13	CL0275
TRINITY_DN4192_c0_g2_i1_1	5	23,6	26,639	201,83	PF02036.16	SCP2	69,7	2,30E-19	CL0311

TRINITY_DN11220_c1_g2_i2_2	7	25,8	38,348	158,54	PF13561.5	adh_short_C2	197	3,00E-58	CL0063
TRINITY_DN10317_c0_g1_i3_2	10	38,5	31,512	181,02	PF00459.24	Inositol_P	246,3	3,50E-73	CL0171
TRINITY_DN9083_c0_g1_i2_2	5	24,3	33,95	54,019	PF00173.27	Cyt-b5	52,9	2,80E-14	No_clan
TRINITY_DN6144_c0_g1_i2_2	7	50,3	21,154	223,2	PF04043.14	PMEI	68,2	9,30E-19	No_clan
TRINITY_DN13238_c0_g1_i1_4	2	28,2	8,4276	76,106	PF00182.18	Glyco_hydro_19	118,7	3,30E-34	CL0037
TRINITY_DN21237_c0_g1_i1_2	1	8,8	11,838	-2					
TRINITY_DN10003_c1_g1_i5_2	10	32,3	44,682	121,04	PF01842.24	ACT	35,3	6,40E-09	CL0070
TRINITY_DN11618_c0_g1_i1_2	24	35	99,705	323,31	PF02359.17	CDC48_N	80,8	6,00E-23	CL0332
TRINITY_DN4347_c0_g1_i1_6	13	24,2	81,078	272,61	PF01321.17	Creatinase_N	59,6	4,40E-16	CL0356
TRINITY_DN5723_c0_g1_i1_2	6	32,6	26,523	323,31	PF01625.20	PMSR	197,7	1,00E-58	No_clan
TRINITY_DN9234_c0_g1_i1_2	10	21,5	55,513	66,144	PF00297.21	Ribosomal_L3	651,4	3,40E-196	CL0575
TRINITY_DN13643_c0_g1_i1_2	9	58,1	23,888	323,31	PF00295.16	Glyco_hydro_28	173,2	6,70E-51	CL0268
TRINITY_DN6792_c0_g1_i2_5	9	35,7	34,973	323,31	PF02338.18	OTU	26,4	7,50E-06	CL0125
TRINITY_DN7574_c0_g1_i5_2	9	24	56,969	111,69	PF12708.6	Pectate_lyase_3	36,2	5,40E-09	CL0268
TRINITY_DN11191_c0_g1_i2_6	17	33	64,897	188,23	PF00883.20	Peptidase_M17	381,2	3,50E-114	CL0035
TRINITY_DN9754_c0_g1_i1_3	14	36,4	56,214	290,29	PF00108.22	Thiolase_N	267,2	1,30E-79	CL0046
TRINITY_DN5779_c0_g1_i1_2	7	22,7	34,883	122,37	PF00561.19	Abhydrolase_1	58,5	7,40E-16	CL0028
TRINITY_DN11323_c0_g1_i1_2	28	37,3	111,81	268,16	PF00012.19	HSP70	535,1	1,60E-160	CL0108
TRINITY_DN14709_c0_g1_i1_5	5	59,5	12,309	121	PF01657.16	Stress-antifung	81,8	4,10E-23	No_clan
TRINITY_DN9829_c0_g1_i3_2	5	38,4	26,582	196,23	PF00080.19	Sod_Cu	159,4	5,50E-47	No_clan
TRINITY_DN6396_c0_g1_i1_2	4	27,8	21,603	37,522	PF03671.13	Ufm1	139,4	2,70E-41	CL0072
TRINITY_DN8644_c0_g2_i1_1	4	29,7	15,566	323,31	PF16845.4	SQAPI	130	2,90E-38	CL0121
TRINITY_DN11241_c0_g1_i3_2	8	16,3	57,768	61,223	PF00153.26	Mito_carr	71,9	2,90E-20	No_clan
TRINITY_DN9392_c0_g1_i1_2	11	35	40,703	194,51	PF00638.17	Ran_BP1	138,6	1,10E-40	CL0266
TRINITY_DN10095_c0_g1_i1_3	12	28,9	66,041	137,6	PF00675.19	Peptidase_M16	126,4	8,00E-37	CL0094
TRINITY_DN9335_c0_g1_i1_4	12	39	48,064	148,37	PF00190.21	Cupin_1	99,7	1,10E-28	CL0029
TRINITY_DN10130_c0_g2_i6_2	13	32,7	64,745	158,65	PF00171.21	Aldedh	445,2	2,00E-133	CL0099
TRINITY_DN11642_c0_g1_i3_4	20	44,4	67,108	235,56	PF00118.23	Cpn60_TCP1	352,4	3,50E-105	No_clan
TRINITY_DN7240_c0_g1_i1_3	2	13,4	15,456	13,544					
TRINITY_DN11079_c0_g1_i1_5	11	32,1	38,269	77,98	PF15704.4	Mt_ATP_synt	264,5	4,90E-79	No_clan
TRINITY_DN10242_c0_g1_i3_2	5	26,1	24,163	42,178	PF13563.5	2_5_RNA_ligase2	41,7	9,60E-11	CL0247
TRINITY_DN3644_c0_g1_i2_3	4	43,7	14,476	58,877	PF04969.15	CS	39	1,10E-09	CL0190
TRINITY_DN11383_c0_g1_i4_1	6	13,2	60,238	222,59	PF00295.16	Glyco_hydro_28	130,2	7,90E-38	CL0268

TRINITY_DN9173_c0_g1_i1_4	6	43,2	28,031	177,91	PF00082.21	Peptidase_S8	47,3	1,50E-12	No_clan
TRINITY_DN4403_c0_g1_i1_1	13	39,3	48,653	323,31	PF01263.19	Aldose_epim	243,8	2,20E-72	CL0103
TRINITY_DN10720_c0_g1_i4_5	13	39,2	57,612	229,31	PF00044.23	Gp_dh_N	111	2,70E-32	CL0063
TRINITY_DN11647_c1_g1_i1_1	8	25,9	49,278	323,31	PF00150.17	Cellulase	75,3	4,80E-21	CL0058
TRINITY_DN12510_c0_g1_i1_1	7	24,1	36,081	228,58	PF13964.5	Kelch_6	26	7,40E-06	CL0186
TRINITY_DN1355_c0_g3_i1_5	1	10,6	13,37	6,8083					
TRINITY_DN11053_c0_g1_i4_6	13	42,6	52,4	323,31	PF00657.21	Lipase_GDSL	44,9	1,20E-11	CL0264
TRINITY_DN5919_c0_g1_i1_3	3	48,3	12,075	102,06					
TRINITY_DN11546_c0_g1_i6_5	16	22,4	97,974	160,41	PF00690.25	Cation_ATPase_N	25,2	9,10E-06	No_clan
TRINITY_DN11141_c0_g1_i6_1	20	39,1	76,775	231,55	PF00483.22	NTP_transferase	271,3	7,30E-81	CL0110
TRINITY_DN2708_c0_g2_i1_1	8	23,8	41,497	72,587	PF00450.21	Peptidase_S10	334,2	1,40E-99	CL0028
TRINITY_DN9530_c0_g3_i4_1	13	40,6	46,131	143,07	PF16363.4	GDP_Man_Dehyd	181,1	3,30E-53	CL0063
TRINITY_DN5278_c0_g1_i1_2	2	38,7	8,0774	16,679	PF00179.25	UQ_con	98,9	1,80E-28	CL0208
TRINITY_DN10989_c0_g2_i2_1	12	29,8	61,857	154,66	PF00370.20	FGGY_N	236,7	2,50E-70	CL0108
TRINITY_DN11653_c0_g2_i1_5	11	42,5	45,109	57,534	PF00022.18	Actin	411,2	3,40E-123	CL0108
TRINITY_DN7029_c0_g1_i1_3	11	52,4	25,321	52,604	PF00162.18	PGK	297,9	9,30E-89	No_clan
TRINITY_DN10674_c0_g1_i3_4	11	27,6	53,843	124,02	PF00481.20	PP2C	220,1	3,50E-65	CL0238
TRINITY_DN10049_c0_g1_i1_3	9	25	55,521	172,22	PF00266.18	Aminotran_5	177,1	4,70E-52	CL0061
TRINITY_DN7937_c0_g1_i2_5	5	26,9	23,549	35,364					
TRINITY_DN1722_c0_g2_i1_3	5	55,1	11,962	59,985	PF00085.19	Thioredoxin	94,9	2,30E-27	CL0172
TRINITY_DN11314_c0_g1_i3_2	13	33	58,805	139,74	PF03214.12	RGP	622,7	1,50E-187	CL0110
TRINITY_DN9588_c0_g1_i1_2	19	33,5	76,261	260,48	PF00365.19	PFK	100	1,30E-28	CL0240
TRINITY_DN10926_c1_g1_i3_3	1	2,8	27,502	23,305	PF01190.16	Pollen_Ole_e_I	65,2	5,10E-18	No_clan
TRINITY_DN5721_c0_g4_i1_3	3	29,5	15,718	160,02	PF10714.8	LEA_6	122,7	4,30E-36	No_clan
TRINITY_DN10576_c0_g1_i1_3	6	33,1	27,015	273,01	PF03358.14	FMN_red	46,6	2,70E-12	CL0042
TRINITY_DN11459_c1_g4_i8_2	26	43,2	78,864	98,115	PF00012.19	HSP70	842,6	1,20E-253	CL0108
TRINITY_DN10492_c1_g1_i2_6	9	28,6	44,634	251	PF00753.26	Lactamase_B	38	1,60E-09	CL0381
TRINITY_DN11529_c0_g1_i2_3	11	22,2	81,422	291,13	PF05817.13	Ribophorin_II	675,4	7,80E-203	No_clan
TRINITY_DN10583_c0_g2_i2_1	9	31,8	41,012	157,76	PF00012.19	HSP70	304,7	9,60E-91	CL0108
TRINITY_DN12655_c0_g1_i1_2	1	11,1	10,19	-2					
TRINITY_DN8865_c0_g2_i1_5	9	44,7	33,472	120,13	PF03721.13	UDPG_MGDP_dh_N	227,8	6,80E-68	CL0063
TRINITY_DN6870_c0_g1_i5_1	16	36,5	68,476	165,07	PF00224.20	PK	306	2,70E-91	CL0151

TRINITY_DN5791_c0_g1_i1_5	14	37,3	51,325	323,31	PF00370.20	FGGY_N	62,4	4,20E-17	CL0108
TRINITY_DN11572_c0_g1_i1_6	11	31,9	40,567	102,7	PF01015.17	Ribosomal_S3Ae	322,8	7,80E-97	No_clan
TRINITY_DN10346_c0_g2_i6_3	14	30,1	65,815	159,23	PF00483.22	NTP_transferase	226,5	3,50E-67	CL0110
TRINITY_DN11809_c0_g1_i1_1	5	32	16,573	42,903	PF01657.16	Stress-antifung	49,4	4,90E-13	No_clan
TRINITY_DN4290_c0_g1_i1_3	8	16,7	55,416	118,8					
TRINITY_DN10866_c0_g1_i1_1	12	34,2	58,183	162,16	PF00091.24	Tubulin	233,8	1,80E-69	CL0566
TRINITY_DN11465_c0_g1_i2_2	9	16,6	71,794	93,394	PF08245.11	Mur_ligase_M	29,7	5,50E-07	No_clan
TRINITY_DN10466_c0_g2_i3_1	17	29,2	70,924	209,17	PF00118.23	Cpn60_TCP1	328,9	4,60E-98	No_clan
TRINITY_DN3729_c0_g2_i1_1	6	43,9	21,943	266,2	PF00241.19	Cofilin_ADF	121,9	1,60E-35	CL0092
TRINITY_DN10917_c0_g1_i1_1	18	26	111,37	152,21	PF00676.19	E1_dh	219,1	5,90E-65	CL0254
TRINITY_DN4960_c0_g1_i2_6	12	36,3	53,41	143,03	PF00056.22	Ldh_1_N	160,3	2,70E-47	CL0063
TRINITY_DN10616_c0_g1_i2_2	4	32,2	24,956	323,31	PF13499.5	EF-hand_7	49,9	3,00E-13	CL0220
TRINITY_DN11240_c0_g2_i1_2	20	27,2	98,064	196,08	PF01433.19	Peptidase_M1	316,8	7,00E-95	CL0126
TRINITY_DN11190_c0_g1_i2_3	18	43,4	65,96	323,31	PF00224.20	PK	520,3	1,70E-156	CL0151
TRINITY_DN11571_c4_g2_i1_1	13	37,6	57,912	298,48	PF00091.24	Tubulin	211,4	1,30E-62	CL0566
TRINITY_DN11669_c393_g1_i1_1	1	6,5	16,644	23,643					
TRINITY_DN10467_c0_g1_i1_1	9	14,1	54,829	100,96	PF14543.5	TAXi_N	178	1,90E-52	CL0129
TRINITY_DN9500_c0_g2_i1_2	20	40,3	64,172	140,76	PF00118.23	Cpn60_TCP1	288,4	8,80E-86	No_clan
TRINITY_DN10347_c0_g1_i1_3	12	30,8	55,935	231,82	PF00180.19	Iso_dh	308,1	7,10E-92	CL0270
TRINITY_DN5968_c0_g1_i1_3	11	27,7	48,926	155,67	PF00153.26	Mito_carr	56,2	2,20E-15	No_clan
TRINITY_DN5544_c0_g1_i1_3	8	31	31,32	104,41	PF00347.22	Ribosomal_L6	45	1,20E-11	No_clan
TRINITY_DN153_c0_g1_i1_1	8	22	44,138	64,978	PF00240.22	ubiquitin	60,3	1,00E-16	CL0072
TRINITY_DN7265_c0_g2_i5_2	15	34,9	47,227	153,63	PF00656.21	Peptidase_C14	258,4	8,00E-77	CL0093
TRINITY_DN9812_c0_g1_i3_4	11	18,3	87,01	184,09	PF00076.21	RRM_1	69,7	1,30E-19	CL0221
TRINITY_DN8811_c0_g1_i3_5	16	38	46,447	148,96	PF00191.19	Annexin	71,1	5,50E-20	No_clan
TRINITY_DN10516_c0_g1_i1_2	9	34,5	42,476	172,58	PF00459.24	Inositol_P	192,6	8,40E-57	CL0171
TRINITY_DN4095_c0_g1_i1_4	7	30,7	32,788	77,469	PF13417.5	GST_N_3	63,7	1,40E-17	CL0172
TRINITY_DN14849_c0_g1_i1_6	1	19,7	8,0198	55,587	PF00141.22	peroxidase	58,6	6,60E-16	CL0617
TRINITY_DN11228_c0_g2_i1_3	4	16,4	19,564	323,31	PF06825.11	HSBP1	78,4	2,50E-22	No_clan
TRINITY_DN10795_c1_g1_i1_6	19	38,9	55,074	323,31	PF02798.19	GST_N	55,4	5,50E-15	CL0172
TRINITY_DN11220_c1_g2_i3_3	2	16,2	11,847	21,075	PF00106.24	adh_short	60,9	9,80E-17	CL0063
TRINITY_DN11391_c0_g2_i2_4	9	29,7	42,393	145,84	PF00231.18	ATP-synt	250,4	2,50E-74	No_clan
TRINITY_DN2394_c0_g1_i2_6	5	29	20,214	57,883	PF00034.20	Cytochrom_C	48,9	1,00E-12	CL0318

TRINITY_DN10841_c0_g2_i1_1	13	15,3	105,69	161,29	PF03141.15	Methyltransf_29	773,2	9,20E-233	CL0063
TRINITY_DN9488_c0_g2_i1_2	9	27,8	42,025	323,31	PF01182.19	Glucosamine_iso	242,5	4,50E-72	CL0246
TRINITY_DN959_c0_g1_i1_1	7	50,5	21,189	125,24	PF00295.16	Glyco_hydro_28	162,8	9,80E-48	CL0268
TRINITY_DN5607_c0_g1_i1_3	9	34,7	34,264	174,65	PF00071.21	Ras	186,5	2,40E-55	CL0023
TRINITY_DN11493_c0_g1_i5_3	8	29	35,113	173,92	PF00071.21	Ras	221,1	5,10E-66	CL0023
TRINITY_DN18554_c0_g1_i1_2	12	33,7	54,045	323,31	PF16499.4	Melibiase_2	261,8	5,80E-78	CL0058
TRINITY_DN11428_c0_g1_i2_3	13	31,5	60,583	121,57	PF07992.13	Pyr_redox_2	249,9	2,80E-74	CL0063
TRINITY_DN23504_c0_g1_i1_4	1	12,3	7,9071	6,6621	PF00141.22	peroxidase	40,2	2,70E-10	CL0617
TRINITY_DN11239_c1_g2_i1_6	6	24,2	26,136	69,504	PF00281.18	Ribosomal_L5	58,3	6,50E-16	CL0652
TRINITY_DN19480_c0_g1_i1_2	2	30,4	7,7355	27,538	PF00332.17	Glyco_hydro_17	57,1	1,70E-15	CL0058
TRINITY_DN12058_c0_g1_i1_3	8	38,6	19,257	52,316	PF07650.16	KH_2	49,7	2,20E-13	CL0007
TRINITY_DN4635_c0_g1_i1_6	5	18,4	40,416	68,759	PF00210.23	Ferritin	106,7	8,60E-31	CL0044
TRINITY_DN6720_c0_g1_i1_1	10	24	59,903	166,8	PF03405.13	FA_desaturase_2	533,8	1,10E-160	CL0044
TRINITY_DN15356_c0_g1_i1_3	5	35,3	15,544	94,73	PF02298.16	Cu_bind_like	74,7	4,10E-21	CL0026
TRINITY_DN10115_c0_g1_i5_2	6	38,2	21,477	51,794	PF01588.19	tRNA_bind	112,2	9,10E-33	CL0021
TRINITY_DN7162_c0_g1_i1_6	5	47,1	16,65	53,12	PF00462.23	Glutaredoxin	58,5	5,30E-16	CL0172
TRINITY_DN668_c0_g2_i1_6	6	21,4	37,5	59,738	PF00687.20	Ribosomal_L1	145,5	1,50E-42	No_clan
TRINITY_DN11756_c0_g2_i2_2	11	25,9	59,388	88,523	PF02878.15	PGM_PMM_I	77,2	9,00E-22	No_clan
TRINITY_DN3503_c0_g1_i1_2	4	68,8	10,615	68,429	PF13499.5	EF-hand_7	61,3	8,80E-17	CL0220
TRINITY_DN10567_c0_g1_i1_3	9	25,8	33,268	124,68	PF05873.11	Mt_ATP-synt_D	66,5	2,20E-18	No_clan
TRINITY_DN9859_c0_g2_i1_3	28	20,9	178	233,68	PF01326.18	PPDK_N	67,6	1,00E-18	CL0179
TRINITY_DN11119_c0_g1_i2_2	8	29,7	38,816	172,61	PF00318.19	Ribosomal_S2	49,5	2,80E-13	CL0067
TRINITY_DN6617_c0_g1_i1_4	5	52,3	21,677	136,76	PF03951.18	Gln-synt_N	40,9	1,20E-10	No_clan
TRINITY_DN8937_c0_g1_i1_1	15	25,7	72,406	142,25	PF00171.21	Aldedh	121,2	3,70E-35	CL0099
TRINITY_DN8063_c0_g1_i1_3	4	14,7	39,851	67,952	PF00719.18	Pyrophosphatase	183,4	2,40E-54	No_clan
TRINITY_DN3510_c0_g1_i2_1	4	10,7	46,958	103,36	PF13181.5	TPR_8	15	0,019	CL0020
TRINITY_DN3885_c0_g1_i1_3	12	57,9	27,567	81,053	PF04043.14	PMEI	66,9	2,30E-18	No_clan
TRINITY_DN11597_c1_g2_i2_1	9	13,7	90,8	74,918	PF03030.15	H_PPase	854,8	4,40E-257	No_clan
TRINITY_DN4297_c0_g1_i1_2	26	28,7	123,47	193,23	PF00311.16	PEPcase	1011,4	0	CL0151
TRINITY_DN11427_c0_g1_i3_2	10	26,2	44,444	153,05	PF05193.20	Peptidase_M16_C	121,3	4,40E-35	CL0094
TRINITY_DN8289_c0_g1_i2_3	17	20,4	105,12	276,93	PF00012.19	HSP70	315,9	3,90E-94	CL0108
TRINITY_DN9771_c0_g1_i4_2	15	31,1	68,279	147,04	PF03141.15	Methyltransf_29	763,4	9,00E-230	CL0063
TRINITY_DN11254_c0_g1_i1_3	12	24,5	72,104	111,89	PF00009.26	GTP_EFTU	146,2	7,70E-43	CL0023

TRINITY_DN11103_c0_g1_i2_3	11	25,9	68,809	167,53	PF00364.21	Biotin_lipoyl	68,1	4,00E-19	CL0105
TRINITY_DN11548_c1_g1_i1_3	7	42,8	27,905	204,12					
TRINITY_DN10949_c0_g1_i1_1	11	16,1	91,417	180,41	PF00890.23	FAD_binding_2	413,7	8,30E-124	CL0063
TRINITY_DN11059_c0_g1_i1_1	9	35,2	39,247	80,843	PF01459.21	Porin_3	214,6	1,60E-63	CL0193
TRINITY_DN3142_c1_g1_i1_1	6	36,4	24,561	84,763	PF12515.7	CaATP_NAI	68,3	2,90E-19	No_clan
TRINITY_DN10281_c0_g2_i1_2	4	18,2	24,443	54,752	PF00828.18	Ribosomal_L27A	77,4	1,40E-21	CL0588
TRINITY_DN10506_c0_g1_i1_2	10	27,5	44,209	323,31	PF00248.20	Aldo_ket_red	168,7	1,40E-49	No_clan
TRINITY_DN9505_c0_g2_i1_1	15	20,2	107,86	169,26	PF00862.18	Sucrose_synth	963,7	2,00E-290	CL0113
TRINITY_DN11355_c0_g1_i2_1	9	22,2	66,91	133,96	PF00400.31	WD40	13,8	0,079	CL0186
TRINITY_DN6984_c0_g1_i1_1	7	23,1	40,785	55,114	PF03152.13	UFD1	269,3	9,30E-81	CL0402
TRINITY_DN9211_c0_g2_i1_1	6	22,6	40,502	323,31	PF01625.20	PMSR	204,9	6,40E-61	No_clan
TRINITY_DN3640_c0_g1_i2_2	7	45,1	21,409	66,534	PF02115.16	Rho_GDI	184,1	2,20E-54	No_clan
TRINITY_DN11606_c0_g1_i1_4	10	32,7	41,932	108,15	PF01370.20	Epimerase	82,8	2,40E-23	CL0063
TRINITY_DN9177_c0_g2_i1_2	20	23,1	114,74	173,61	PF01602.19	Adaptin_N	300,9	1,50E-89	CL0020
TRINITY_DN11073_c0_g2_i1_2	8	26,6	43,764	89,508	PF00201.17	UDPGT	23,7	1,80E-05	CL0113
TRINITY_DN9688_c0_g1_i3_5	5	18,9	31,878	56,324	PF00177.20	Ribosomal_S7	125,5	1,20E-36	No_clan
TRINITY_DN5149_c0_g1_i1_1	2	39,7	8,5726	254,89	PF04526.12	DUF568	43,7	3,20E-11	No_clan
TRINITY_DN9163_c0_g1_i2_2	9	25,7	56,544	101,66	PF00085.19	Thioredoxin	99,6	7,60E-29	CL0172
TRINITY_DN9921_c0_g1_i1_2	17	37,2	67,382	141,59	PF00118.23	Cpn60_TCP1	507,3	3,60E-152	No_clan
TRINITY_DN8108_c0_g1_i1_2	19	37,3	64,968	279,62	PF03009.16	GDPD	87,2	1,30E-24	CL0384
TRINITY_DN11594_c0_g2_i5_1	7	31,2	35,27	62,689	PF00627.30	UBA	36,6	2,80E-09	CL0214
TRINITY_DN7706_c0_g2_i2_2	7	32	28,309	98,563	PF00900.19	Ribosomal_S4e	123,7	1,90E-36	No_clan
TRINITY_DN11322_c1_g1_i2_3	5	16,5	32,826	38,22	PF00252.17	Ribosomal_L16	143,1	4,40E-42	No_clan
TRINITY_DN6946_c0_g1_i1_2	11	30,1	55,86	134,44	PF03088.15	Str_synth	102,4	9,90E-30	CL0186
TRINITY_DN11349_c1_g2_i4_3	12	29,6	49,826	151,25	PF00012.19	HSP70	624,6	1,30E-187	CL0108
TRINITY_DN5652_c0_g3_i1_4	3	38,8	7,4504	40,866					
TRINITY_DN11033_c0_g1_i4_5	4	21,1	24,829	169,74	PF00334.18	NDK	176,9	1,70E-52	No_clan
TRINITY_DN3347_c0_g1_i1_2	2	9,2	32,461	33,997	PF00082.21	Peptidase_S8	64,2	1,10E-17	No_clan
TRINITY_DN6901_c0_g1_i1_3	2	16,7	24,456	87,886	PF00235.18	Profilin	144,6	1,60E-42	CL0431
TRINITY_DN5552_c0_g1_i1_1	6	23,3	33,487	121,77	PF05008.14	V-SNARE	88,9	2,00E-25	CL0147
TRINITY_DN10237_c0_g3_i1_1	17	22	115,6	217,27	PF00122.19	E1-E2_ATPase	167,8	1,50E-49	No_clan
TRINITY_DN11143_c0_g1_i5_1	8	26	55,933	275,31	PF00076.21	RRM_1	56,5	1,60E-15	CL0221
TRINITY_DN1882_c0_g1_i2_3	6	19,4	48,65	90,309	PF00108.22	Thiolase_N	308,8	2,60E-92	CL0046

TRINITY_DN10939_c0_g1_i1_1	11	26,6	59,961	102,71	PF00285.20	Citrate_synt	345,7	2,80E-103	No_clan
TRINITY_DN7127_c0_g1_i1_1	18	35,2	77,203	227,76	PF00069.24	Pkinase	229,1	5,60E-68	CL0016
TRINITY_DN11501_c0_g1_i3_2	19	45,8	57,618	203,36	PF08267.11	Meth_synt_1	393,1	9,80E-118	CL0160
TRINITY_DN9883_c0_g1_i1_1	10	24,9	45,602	89,214	PF17144.3	Ribosomal_L5e	274,9	2,00E-82	CL0267
TRINITY_DN10759_c0_g1_i2_5	7	22,2	46,081	68,894	PF02779.23	Transket_pyr	160,2	3,70E-47	CL0254
TRINITY_DN11019_c0_g1_i2_2	21	49,5	66,149	64,39	PF03721.13	UDPG_MGDP_dh_N	227,3	9,90E-68	CL0063
TRINITY_DN10818_c0_g1_i3_1	7	22,8	39,259	93,884	PF08079.11	Ribosomal_L30_N	88,6	2,10E-25	No_clan
TRINITY_DN20642_c0_g1_i1_4	4	19,6	23,028	46,526	PF00251.19	Glyco_hydro_32N	74,4	1,00E-20	CL0143
TRINITY_DN9556_c1_g1_i2_1	8	30,7	32,215	228,51	PF00179.25	UQ_con	144,5	1,50E-42	CL0208
TRINITY_DN10502_c0_g2_i8_3	19	27	123,21	161,93	PF02347.15	GDC-P	609	4,10E-183	CL0061
TRINITY_DN10701_c0_g1_i1_2	8	29,5	36,29	95,807	PF00333.19	Ribosomal_S5	108	1,60E-31	CL0196
TRINITY_DN11433_c0_g1_i2_1	14	18,2	117,43	205,25	PF00400.31	WD40	26,4	8,00E-06	CL0186
TRINITY_DN6503_c0_g2_i1_1	5	19,9	42,177	50,902	PF00466.19	Ribosomal_L10	63,9	1,10E-17	No_clan
TRINITY_DN6738_c0_g1_i1_3	3	9,4	26,342	167,99	PF02298.16	Cu_bind_like	65	4,30E-18	CL0026
TRINITY_DN9643_c0_g1_i1_2	8	22,5	54,836	75,78	PF00175.20	NAD_binding_1	93,5	1,10E-26	CL0091
TRINITY_DN2791_c0_g1_i1_3	8	41,7	30,407	173,2	PF00156.26	Pribosyltran	66,1	2,30E-18	CL0533
TRINITY_DN11325_c0_g1_i1_1	4	22,5	27,054	72,454	PF01248.25	Ribosomal_L7Ae	89,7	7,20E-26	CL0101
TRINITY_DN7495_c0_g1_i1_1	4	24,1	34,124	145,58	PF01849.17	NAC	80,2	7,30E-23	No_clan
TRINITY_DN2602_c0_g1_i2_3	12	32,1	58,605	106,25	PF00224.20	PK	392,8	1,10E-117	CL0151
TRINITY_DN11605_c1_g2_i1_4	3	22,1	27,973	93,285	PF02466.18	Tim17	44,8	1,10E-11	No_clan
TRINITY_DN6250_c0_g1_i2_3	12	25,5	72,201	95,462	PF01565.22	FAD_binding_4	56,5	2,30E-15	CL0077
TRINITY_DN6615_c0_g2_i1_4	8	58,7	20,941	47,605	PF00022.18	Actin	211,9	1,10E-62	CL0108
TRINITY_DN1128_c0_g2_i1_2	1	4,2	20,769	-2					
TRINITY_DN4481_c0_g1_i3_5	6	20,5	31,125	70,585	PF00827.16	Ribosomal_L15e	315,3	1,20E-94	CL0652
TRINITY_DN1332_c0_g1_i1_2	4	25	25,138	297,45	PF02265.15	S1-P1_nuclease	198,3	1,70E-58	CL0368
TRINITY_DN10179_c0_g1_i1_1	12	27,4	63,592	263,82	PF04043.14	PMEI	95,3	4,20E-27	No_clan
TRINITY_DN5568_c0_g1_i1_2	8	39,9	31,086	163,39	PF00076.21	RRM_1	56,2	2,10E-15	CL0221
TRINITY_DN11161_c0_g2_i1_1	6	50	13,738	89,054	PF05922.15	Inhibitor_I9	45,9	6,40E-12	CL0570
TRINITY_DN4141_c0_g1_i1_2	10	20,6	65,381	106,87	PF00289.21	Biotin_carb_N	135,5	9,50E-40	CL0483
TRINITY_DN15874_c0_g1_i1_6	3	21,9	17,069	81,459	PF04043.14	PMEI	51,8	9,90E-14	No_clan
TRINITY_DN10532_c0_g1_i1_4	4	21,3	31,234	205	PF00834.18	Ribul_P_3_epim	231,3	5,80E-69	CL0036
TRINITY_DN6875_c0_g1_i1_3	11	33,1	43,271	76,151	PF00244.19	14-3-3	351	2,10E-105	No_clan

TRINITY_DN7117_c0_g2_i2_1	5	23,7	25,74	45,284	PF03946.13	Ribosomal_L11_N	81,7	2,20E-23	No_clan
TRINITY_DN19584_c0_g1_i1_1	7	44,7	28,198	323,31	PF00887.18	ACBP	59,7	2,20E-16	CL0632
TRINITY_DN11441_c0_g1_i2_3	14	26,4	77,483	108,12	PF02219.16	MTHFR	403,6	4,10E-121	CL0086
TRINITY_DN11585_c0_g1_i2_3	16	23,3	88,044	118,12	PF00378.19	ECH_1	135,8	1,50E-39	CL0127
TRINITY_DN9778_c0_g1_i2_1	16	27,6	82,49	153,09	PF04053.13	Coatomer_WDAD	283,5	3,10E-84	CL0186
TRINITY_DN10084_c0_g1_i3_3	12	32,3	54,792	171,74	PF00141.22	peroxidase	149,7	9,20E-44	CL0617
TRINITY_DN8707_c0_g1_i1_4	11	30,7	39,647	108,12	PF01201.21	Ribosomal_S8e	192,2	3,80E-57	No_clan
TRINITY_DN8413_c0_g1_i1_3	4	19,1	25,409	32,716	PF01090.18	Ribosomal_S19e	191,3	5,10E-57	CL0123
TRINITY_DN11449_c0_g2_i5_3	19	28,5	95,965	153,48	PF00311.16	PEPcase	748,7	6,80E-225	CL0151
TRINITY_DN21888_c0_g1_i1_3	2	28,8	11,379	42,503					
TRINITY_DN10361_c1_g2_i1_1	6	17,9	35,258	41,941	PF03868.14	Ribosomal_L6e_N	55,5	4,20E-15	No_clan
TRINITY_DN7454_c0_g1_i1_5	4	27,8	19,666	49,324	PF00293.27	NUDIX	90,1	1,10E-25	CL0261
TRINITY_DN11044_c0_g1_i1_3	12	24,7	65,24	101,41	PF00996.17	GDI	766,9	4,10E-231	CL0063
TRINITY_DN10694_c0_g1_i1_2	7	26,8	40,563	310,86	PF00756.19	Esterase	188,2	1,80E-55	CL0028
TRINITY_DN7765_c0_g1_i1_3	5	21,9	28,816	62,114	PF00411.18	Ribosomal_S11	157,8	1,00E-46	CL0267
TRINITY_DN10259_c0_g1_i1_4	3	8	38,697	18,341	PF00213.17	OSCP	145,4	1,60E-42	CL0255
TRINITY_DN10666_c0_g1_i1_3	12	29,4	61,365	112,07	PF00330.19	Aconitase	404,3	7,30E-121	No_clan
TRINITY_DN8743_c0_g1_i2_2	1	4,4	25,585	7,8668	PF03760.14	LEA_1	73,8	1,20E-20	No_clan
TRINITY_DN7469_c0_g1_i1_3	8	30	35,8	139,53	PF13419.5	HAD_2	82	5,10E-23	CL0137
TRINITY_DN9596_c0_g1_i2_1	16	26,4	76,258	145,8					
TRINITY_DN9658_c0_g1_i1_4	8	21	54,767	57,899	PF03345.13	DDOST_48kD	434,3	4,00E-130	No_clan
TRINITY_DN7483_c0_g2_i2_4	4	17,1	26,16	25,796	PF02823.15	ATP-synt_DE_N	56,9	1,30E-15	No_clan
TRINITY_DN10418_c0_g1_i1_1	9	29,7	43,887	263,02	PF09032.10	Siah-Interact_N	28,3	1,50E-06	No_clan
TRINITY_DN6749_c0_g1_i3_2	8	15,8	68,178	77,305	PF00365.19	PFK	124,3	5,40E-36	CL0240
TRINITY_DN10064_c0_g1_i1_6	6	28,3	30,729	153,16	PF04969.15	CS	36,7	5,90E-09	CL0190
TRINITY_DN10803_c0_g1_i1_1	2	24,8	11,369	22,797					
TRINITY_DN10303_c0_g1_i1_3	5	12,3	52,013	70,155	PF00112.22	Peptidase_C1	281,5	5,60E-84	CL0125
TRINITY_DN2784_c0_g1_i1_3	9	36,4	29,789	63,645					
TRINITY_DN12921_c0_g1_i1_6	6	30,2	24,102	71,209	PF01088.20	Peptidase_C12	161,9	1,60E-47	CL0125
TRINITY_DN9516_c0_g1_i2_6	12	19	96,69	112,11	PF02990.15	EMP70	616,2	4,10E-185	No_clan
TRINITY_DN9036_c0_g1_i1_2	4	22	20,151	62,043	PF00085.19	Thioredoxin	108,4	1,40E-31	CL0172
TRINITY_DN20791_c0_g1_i1_4	1	10,9	9,5834	6,3403					
TRINITY_DN6266_c0_g1_i2_5	8	30,7	40,671	89,681	PF01266.23	DAO	29,3	5,70E-07	CL0063

TRINITY_DN11086_c0_g1_i1_1	6	24,4	38,394	107,71	PF10584.8	Proteasome_A_N	49,5	2,20E-13	CL0052
TRINITY_DN3111_c0_g2_i1_2	11	25,3	62,233	207,91	PF01432.19	Peptidase_M3	455	3,50E-136	CL0126
TRINITY_DN10597_c0_g2_i1_2	17	23,7	115,21	159,23	PF00899.20	ThiF	91	7,00E-26	CL0063
TRINITY_DN10098_c0_g1_i3_1	9	23,8	64,497	83,62	PF00240.22	ubiquitin	61,2	5,50E-17	CL0072
TRINITY_DN6445_c0_g1_i1_3	7	22,6	43,695	52,811	PF00657.21	Lipase_GDSL	66,8	2,30E-18	CL0264
TRINITY_DN10634_c0_g1_i2_4	4	16,7	38,311	28,215	PF13417.5	GST_N_3	67,8	7,70E-19	CL0172
TRINITY_DN5741_c0_g1_i2_3	5	22,1	25,395	42,58	PF03501.14	S10_plectin	147,2	1,10E-43	No_clan
TRINITY_DN7128_c0_g2_i1_1	6	20,7	41,187	106,97	PF01765.18	RRF	207,5	1,00E-61	No_clan
TRINITY_DN11601_c0_g2_i2_5	16	29,1	63,747	157,93	PF01433.19	Peptidase_M1	182,6	6,90E-54	CL0126
TRINITY_DN9962_c0_g2_i1_2	3	5,1	61,565	21,737	PF01565.22	FAD_binding_4	91,6	3,20E-26	CL0077
TRINITY_DN10845_c0_g1_i2_1	9	20,8	58,75	105,14	PF00180.19	Iso_dh	342,9	1,90E-102	CL0270
TRINITY_DN10542_c0_g1_i1_2	5	19,8	35,418	115,82	PF00076.21	RRM_1	80,7	4,70E-23	CL0221
TRINITY_DN7441_c0_g1_i1_6	7	57,6	15,705	139,39					
TRINITY_DN10521_c0_g1_i1_3	13	31,8	58,5	124,57	PF08442.9	ATP-grasp_2	199,1	5,10E-59	CL0179
TRINITY_DN10791_c2_g1_i3_2	6	30,7	31,486	69,663	PF00724.19	Oxidored_FMN	251,1	1,60E-74	CL0036
TRINITY_DN11097_c0_g1_i2_6	6	13,1	51,286	93,222	PF00079.19	Serpin	340,7	1,20E-101	No_clan
TRINITY_DN8226_c0_g1_i1_1	15	38,9	61,455	132,5	PF07992.13	Pyr_redox_2	189,1	9,60E-56	CL0063
TRINITY_DN8836_c0_g1_i1_2	8	26,4	48,688	70,282	PF01588.19	tRNA_bind	86,2	1,20E-24	CL0021
TRINITY_DN9745_c0_g1_i2_1	13	19,7	99,35	108,78	PF02847.16	MA3	84,3	5,00E-24	CL0020
TRINITY_DN6745_c0_g1_i6_1	7	32,6	39,722	165,59	PF00076.21	RRM_1	49,5	2,60E-13	CL0221
TRINITY_DN10651_c0_g1_i1_1	12	18,3	71,018	82,558	PF00254.27	FKBP_C	118	1,60E-34	CL0487
TRINITY_DN3758_c0_g1_i1_5	1	7,8	21,371	12,516	PF00428.18	Ribosomal_60s	90,6	6,70E-26	No_clan
TRINITY_DN9555_c0_g1_i2_4	1	8	12,028	6,7675					
TRINITY_DN8044_c0_g1_i1_2	11	24,1	70,527	98,925	PF00224.20	PK	530,3	1,70E-159	CL0151
TRINITY_DN5302_c0_g2_i1_4	3	17	16,129	23,533	PF00248.20	Aldo_ket_red	74,9	5,50E-21	No_clan
TRINITY_DN9331_c0_g1_i5_4	7	18,2	64,406	66,74	PF04597.13	Ribophorin_I	481	3,90E-144	No_clan
TRINITY_DN10842_c0_g1_i1_3	3	19,4	18,623	26,008	PF03760.14	LEA_1	45,8	6,70E-12	No_clan
TRINITY_DN10737_c0_g1_i2_1	7	19,9	45,941	73,745	PF00248.20	Aldo_ket_red	246,2	3,50E-73	No_clan
TRINITY_DN11246_c0_g1_i1_1	3	11,5	28,897	62,34	PF08069.11	Ribosomal_S13_N	110	3,70E-32	No_clan
TRINITY_DN10802_c0_g1_i2_2	6	14,9	50,299	83,248	PF13181.5	TPR_8	11,9	0,2	CL0020
TRINITY_DN10937_c0_g1_i1_3	5	19,6	33,343	46,271	PF00181.22	Ribosomal_L2	49,5	2,80E-13	CL0021
TRINITY_DN5821_c0_g1_i2_2	2	7,6	30,302	29,707	PF04043.14	PMEI	98,1	5,80E-28	No_clan
TRINITY_DN7491_c0_g1_i1_1	8	21,9	43,383	49,545	PF01248.25	Ribosomal_L7Ae	88,7	1,40E-25	CL0101

TRINITY_DN10883_c0_g1_i2_4	8	30,7	40,92	18,087	PF00160.20	Pro_isomerase	162,7	7,30E-48	CL0475
TRINITY_DN9369_c0_g1_i1_2	3	14,4	37,776	40,35	PF03896.15	TRAP_alpha	94,8	4,80E-27	No_clan
TRINITY_DN15371_c0_g1_i1_1	4	31,4	12,484	48,64	PF04043.14	PMEI	28,6	1,40E-06	No_clan
TRINITY_DN8535_c0_g1_i1_3	12	24,2	65,265	107,76	PF00676.19	E1_dh	271,8	5,30E-81	CL0254
TRINITY_DN11283_c0_g1_i3_1	6	21,8	41,497	73,348	PF10584.8	Proteasome_A_N	49,8	1,70E-13	CL0052
TRINITY_DN10469_c0_g2_i1_3	4	13,5	31,793	79,478	PF17135.3	Ribosomal_L18	314,5	1,60E-94	CL0588
TRINITY_DN6972_c0_g1_i1_5	6	18,7	38,269	302,04	PF00635.25	Motile_Sperm	107,7	2,50E-31	CL0556
TRINITY_DN9766_c0_g1_i2_1	9	24,9	51,647	108,12	PF00132.23	Hexapep	18,8	0,0009	CL0536
TRINITY_DN6771_c0_g1_i1_1	8	29	41,377	80,874	PF00224.20	PK	152,8	1,00E-44	CL0151
TRINITY_DN11054_c0_g1_i1_2	10	27,1	64,448	91,005	PF00330.19	Aconitase	251,1	2,00E-74	No_clan
TRINITY_DN11476_c0_g1_i2_1	11	27,3	54,915	103,58	PF02020.17	W2	69,3	2,20E-19	CL0020
TRINITY_DN9150_c0_g1_i3_1	5	36,4	22,766	65,373	PF00173.27	Cyt-b5	92,2	1,60E-26	No_clan
TRINITY_DN8849_c0_g2_i3_2	3	11,5	22,981	323,31	PF13499.5	EF-hand_7	36,4	5,00E-09	CL0220
TRINITY_DN7905_c0_g1_i1_5	11	41,9	32,238	94,995	PF14290.5	DUF4370	373	6,90E-112	No_clan
TRINITY_DN9056_c0_g1_i1_6	3	24,2	24,141	323,31	PF00111.26	Fer2	66,6	1,30E-18	CL0486
TRINITY_DN8426_c0_g1_i2_3	2	9,2	36,019	16,066	PF00141.22	peroxidase	271,7	4,70E-81	CL0617
TRINITY_DN4385_c0_g1_i1_2	12	29,5	58,511	91,182	PF11543.7	UN_NPL4	30,1	4,60E-07	CL0072
TRINITY_DN21126_c0_g1_i1_1	3	29,1	13,086	28,605					
TRINITY_DN11515_c0_g1_i3_1	10	27,2	57,529	108,6	PF00004.28	AAA	144,2	2,70E-42	CL0023
TRINITY_DN12722_c0_g1_i1_1	1	3,4	45,44	191	PF01095.18	Pectinesterase	238,9	4,50E-71	CL0268
TRINITY_DN11139_c0_g1_i1_3	8	11,6	79,64	58,291	PF03219.13	TLC	658,5	5,60E-198	CL0015
TRINITY_DN10080_c0_g1_i1_1	8	22,7	48,782	86,953	PF01937.18	DUF89	185,3	1,50E-54	No_clan
TRINITY_DN8178_c0_g1_i2_3	6	35,5	25,126	107,59	PF00294.23	PfkB	123,5	1,00E-35	CL0118
TRINITY_DN130_c0_g1_i1_2	11	31,3	46,513	151,47	PF00009.26	GTP_EFTU	147,8	2,50E-43	CL0023
TRINITY_DN11280_c0_g1_i4_3	18	37,4	70,198	129,48	PF00587.24	tRNA-synt_2b	65,1	7,20E-18	CL0040
TRINITY_DN11620_c0_g1_i1_2	8	23,7	38,271	52,371	PF10584.8	Proteasome_A_N	48,2	5,50E-13	CL0052
TRINITY_DN11411_c1_g1_i3_5	11	34,8	58,509	113,91	PF00438.19	S-AdoMet_synt_N	143	3,50E-42	No_clan
TRINITY_DN9704_c0_g1_i1_2	5	24	23,523	49,788	PF00410.18	Ribosomal_S8	75,9	2,30E-21	No_clan
TRINITY_DN2711_c0_g1_i1_3	9	22,7	52,336	249,16	PF00450.21	Peptidase_S10	249,3	8,90E-74	CL0028
TRINITY_DN10623_c0_g1_i2_5	2	10,3	26,188	59,192	PF01283.18	Ribosomal_S26e	179,6	1,50E-53	No_clan
TRINITY_DN9395_c0_g2_i1_3	6	14,7	53,224	93,465	PF09298.10	FAA_hydrolase_N	110,5	4,00E-32	No_clan
TRINITY_DN10777_c0_g1_i2_2	4	16,7	26,209	65,769	PF08694.10	UFC1	275,7	7,10E-83	CL0208
TRINITY_DN8939_c0_g1_i1_1	13	30,6	50,947	323,31	PF13489.5	Methyltransf_23	76,8	1,50E-21	CL0063

TRINITY_DN14055_c0_g1_i1_6	2	15,9	15,009	15,692					
TRINITY_DN5112_c0_g2_i3_3	11	38	50,065	137,09	PF00240.22	ubiquitin	53,4	1,50E-14	CL0072
TRINITY_DN3053_c0_g1_i1_6	4	31,5	13,75	323,31	PF00201.17	UDPGT	36,9	1,70E-09	CL0113
TRINITY_DN3542_c0_g2_i1_1	3	23,1	26,467	288,69	PF06201.12	PITH	133,8	5,30E-39	CL0202
TRINITY_DN8778_c0_g1_i2_2	6	21,9	37,611	51,421	PF12146.7	Hydrolase_4	41,5	8,20E-11	CL0028
TRINITY_DN8889_c0_g1_i1_1	6	25,3	43,588	72,183	PF14226.5	DIOX_N	86,3	2,20E-24	CL0029
TRINITY_DN6086_c0_g1_i1_1	9	35,6	30,928	64,893	PF04669.12	Polysacc_synt_4	240,1	1,20E-71	No_clan
TRINITY_DN9418_c0_g1_i2_5	9	30,9	47,087	101,31	PF00349.20	Hexokinase_1	79,5	3,00E-22	CL0108
TRINITY_DN9810_c0_g1_i1_3	9	21,9	56,126	64,039	PF00676.19	E1_dh	400	4,50E-120	CL0254
TRINITY_DN6193_c0_g1_i1_1	5	26,5	23,394	52,002	PF01778.16	Ribosomal_L28e	87,7	8,10E-25	No_clan
TRINITY_DN9474_c1_g1_i1_5	5	24,7	26,754	66,599	PF00179.25	UQ_con	162,4	4,30E-48	CL0208
TRINITY_DN10292_c0_g1_i2_6	4	17	29,298	323,31	PF00708.17	Acylphosphatase	79,4	1,80E-22	CL0622
TRINITY_DN11230_c0_g2_i2_6	6	35,8	26,073	257,38	PF03931.14	Skp1_POZ	106,5	5,10E-31	CL0033
TRINITY_DN10344_c0_g1_i1_2	7	28,5	50,98	67,413	PF12796.6	Ank_2	58,2	8,60E-16	CL0465
TRINITY_DN11434_c0_g1_i1_2	6	20,9	31,204	51,655	PF00416.21	Ribosomal_S13	190	1,70E-56	CL0303
TRINITY_DN11361_c0_g1_i1_2	10	20,3	59,659	79,996	PF01370.20	Epimerase	198,7	9,20E-59	CL0063
TRINITY_DN10628_c0_g1_i1_3	7	24,2	38,105	49,648	PF00571.27	CBS	30,1	4,50E-07	No_clan
TRINITY_DN5840_c0_g1_i1_1	6	42,1	15,617	56,952	PF01287.19	eIF-5a	62	4,00E-17	CL0021
TRINITY_DN10700_c0_g1_i1_3	4	33,3	16,474	96,744	PF01095.18	Pectinesterase	232,7	3,40E-69	CL0268
TRINITY_DN10484_c2_g1_i2_1	4	12,1	38,41	36,337	PF13774.5	Longin	77,9	4,00E-22	No_clan
TRINITY_DN11431_c0_g1_i3_5	1	6,2	22,595	50,111	PF01277.16	Oleosin	135,4	6,20E-40	No_clan
TRINITY_DN9680_c0_g1_i1_1	5	22	25,469	34,254	PF06108.11	DUF952	83,4	7,80E-24	CL0084
TRINITY_DN53_c0_g1_i1_5	1	8,1	13,662	7,2012	PF00082.21	Peptidase_S8	36,2	3,70E-09	No_clan
TRINITY_DN13553_c0_g1_i1_2	7	88,9	10,023	47,146	PF00626.21	Gelsolin	46,1	3,20E-12	CL0092
TRINITY_DN10106_c0_g1_i2_1	10	27	41,475	59,668	PF00244.19	14-3-3	345,5	1,00E-103	No_clan
TRINITY_DN10104_c0_g2_i1_2	7	21	42,801	54,695	PF00201.17	UDPGT	94	8,70E-27	CL0113
TRINITY_DN11228_c0_g1_i1_3	3	17,5	18,456	288,1	PF06825.11	HSBP1	81,7	2,40E-23	No_clan
TRINITY_DN9356_c0_g1_i2_6	7	15,3	60,735	64,155					
TRINITY_DN10740_c0_g1_i5_5	9	20,8	52,938	66,666	PF03223.14	V-ATPase_C	420,1	9,30E-126	No_clan
TRINITY_DN15242_c0_g1_i1_5	2	22,4	11,925	20,841	PF00578.20	AhpC-TSA	66,8	1,50E-18	CL0172
TRINITY_DN10478_c0_g2_i1_1	2	10,1	15,673	142,54					
TRINITY_DN10321_c0_g1_i2_2	3	13,9	27,848	23,248	PF16906.4	Ribosomal_L26	128,5	9,10E-38	No_clan
TRINITY_DN17896_c0_g1_i1_5	10	35,4	39,656	80,905	PF01145.24	Band_7	103,3	1,40E-29	CL0433

TRINITY_DN5702_c0_g1_i1_3	2	10,4	20,993	32,594					
TRINITY_DN6940_c0_g9_i5_6	3	14,1	28,008	32,239	PF01280.19	Ribosomal_L19e	221,4	4,10E-66	No_clan
TRINITY_DN10205_c0_g1_i1_2	7	15	74,079	323,31	PF00240.22	ubiquitin	67,6	5,30E-19	CL0072
TRINITY_DN10892_c0_g1_i2_4	12	18,8	99,767	107,89	PF01496.18	V_ATPase_I	975,6	1,50E-293	No_clan
TRINITY_DN11295_c0_g2_i3_1	9	23,1	71,591	139,32	PF07992.13	Pyr_redox_2	224,9	1,20E-66	CL0063
TRINITY_DN10858_c0_g1_i1_5	12	29	51,103	103,3	PF01145.24	Band_7	68,2	8,30E-19	CL0433
TRINITY_DN10871_c0_g1_i3_2	11	27,1	59,993	103,54	PF00171.21	Aldedh	576,7	2,60E-173	CL0099
TRINITY_DN6968_c0_g1_i1_1	5	13,9	37,368	33,139	PF00166.20	Cpn10	95,2	1,70E-27	CL0296
TRINITY_DN6689_c0_g1_i1_2	3	10,7	41,815	55,802	PF13561.5	adh_short_C2	227,3	1,70E-67	CL0063
TRINITY_DN10111_c0_g1_i3_2	10	24,5	62,456	111,93	PF00118.23	Cpn60_TCP1	494,1	3,80E-148	No_clan
TRINITY_DN9976_c0_g4_i1_4	3	16	24,915	45,852	PF00120.23	Gln-synt_C	55,9	3,20E-15	CL0286
TRINITY_DN11601_c0_g1_i1_1	15	43,6	48,437	169,22	PF11940.7	DUF3458	36,6	4,20E-09	No_clan
TRINITY_DN4015_c0_g1_i1_2	3	24,4	21,18	20,891	PF02298.16	Cu_bind_like	85,6	1,60E-24	CL0026
TRINITY_DN10140_c0_g1_i1_2	10	27,6	47,722	200,29	PF00248.20	Aldo_ket_red	191,6	1,50E-56	No_clan
TRINITY_DN2592_c0_g1_i1_1	12	32,5	55,448	134,73	PF03952.15	Enolase_N	188,2	5,40E-56	CL0227
TRINITY_DN10378_c0_g2_i2_1	6	17,9	47,116	120,19	PF08240.11	ADH_N	85,9	1,40E-24	CL0296
TRINITY_DN8575_c0_g2_i3_2	5	20,5	24,727	159,09	PF00255.18	GSHPx	146,2	2,10E-43	CL0172
TRINITY_DN11259_c0_g1_i2_5	15	27,1	87,305	131,72	PF02225.21	PA	43,2	3,00E-11	CL0364
TRINITY_DN11269_c2_g1_i2_3	16	27	64,296	104,62	PF00270.28	DEAD	135,3	1,70E-39	CL0023
TRINITY_DN9965_c1_g1_i1_3	3	32,5	15,92	112,76					
TRINITY_DN9622_c1_g1_i2_2	1	23,8	8,7298	152,99	PF05498.10	RALF	29	1,40E-06	No_clan
TRINITY_DN10079_c0_g1_i1_3	10	33,2	41,518	84,195	PF08240.11	ADH_N	35,7	5,70E-09	CL0296
TRINITY_DN3545_c0_g1_i2_1	5	31,8	12,648	31,385	PF01479.24	S4	47,5	1,00E-12	CL0492
TRINITY_DN5659_c0_g1_i1_1	18	29,9	100,81	159,96	PF00343.19	Phosphorylase	1009,6	6,90E-304	CL0113
TRINITY_DN5550_c0_g1_i2_4	5	54,9	16,231	172,75	PF00240.22	ubiquitin	71,6	3,00E-20	CL0072
TRINITY_DN11000_c0_g1_i1_2	7	23,8	42,201	61,196	PF08240.11	ADH_N	36,9	2,50E-09	CL0296
TRINITY_DN9087_c0_g1_i2_1	7	20,9	43,432	49,35	PF00635.25	Motile_Sperm	99,6	7,70E-29	CL0556
TRINITY_DN9399_c0_g1_i2_1	7	36	32,329	166,72	PF01048.19	PNP_UDP_1	71,4	5,90E-20	CL0408
TRINITY_DN11102_c0_g1_i4_6	4	12,9	40,677	86,032	PF00561.19	Abhydrolase_1	82,2	4,20E-23	CL0028
TRINITY_DN7857_c0_g1_i4_2	12	21,3	87,629	84,032	PF00378.19	ECH_1	145,6	1,40E-42	CL0127
TRINITY_DN5480_c0_g1_i2_3	6	21,1	42,176	43,84	PF00005.26	ABC_tran	54,6	1,50E-14	CL0023
TRINITY_DN3630_c0_g1_i1_5	8	25,8	50,294	60,847	PF00108.22	Thiolase_N	302	3,10E-90	CL0046
TRINITY_DN3986_c0_g2_i1_2	10	26,7	54,212	122,58	PF07992.13	Pyr_redox_2	159	1,40E-46	CL0063

TRINITY_DN10586_c0_g1_i1_1	5	32,2	25,915	102,6	PF00173.27	Cyt-b5	87,4	4,80E-25	No_clan
TRINITY_DN10813_c1_g1_i3_3	9	39,7	31,386	67,206	PF16363.4	GDP_Man_Dehyd	161,6	2,80E-47	CL0063
TRINITY_DN21280_c0_g1_i1_3	3	39,5	8,5615	22,309					
TRINITY_DN7020_c0_g1_i1_2	6	17,7	33,396	82,173	PF02297.16	COX6B	57,4	1,20E-15	CL0351
TRINITY_DN10799_c0_g2_i1_6	4	9,8	54,165	38,502	PF13181.5	TPR_8	17,4	0,0034	CL0020
TRINITY_DN8664_c0_g1_i3_3	5	18,2	41,47	41,515	PF01263.19	Aldose_epim	325,4	3,10E-97	CL0103
TRINITY_DN9559_c0_g1_i1_3	11	30,4	62,206	323,31	PF00790.18	VHS	88,4	3,40E-25	CL0009
TRINITY_DN11471_c0_g1_i3_3	5	16,1	31,191	88,324	PF01775.16	Ribosomal_L18A	182,2	2,90E-54	No_clan
TRINITY_DN7380_c0_g3_i1_1	3	19,2	16,445	73,416	PF07876.11	Dabb	100,7	4,90E-29	CL0032
TRINITY_DN9887_c0_g1_i1_2	4	23,5	25,568	15,255	PF01248.25	Ribosomal_L7Ae	88,4	1,80E-25	CL0101
TRINITY_DN10568_c0_g3_i5_1	9	22,6	60,785	73,872	PF00262.17	Calreticulin	440,2	4,50E-132	CL0004
TRINITY_DN10508_c0_g1_i1_5	1	4,5	25,051	9,4693	PF00248.20	Aldo_ket_red	108,9	2,30E-31	No_clan
TRINITY_DN9574_c0_g1_i3_1	10	32,9	46,093	78,604	PF00056.22	Ldh_1_N	157,7	1,70E-46	CL0063
TRINITY_DN6731_c0_g1_i1_1	16	27,1	91,936	187,2	PF03255.13	ACCA	181,3	8,00E-54	CL0127
TRINITY_DN10793_c0_g1_i1_1	4	15,2	40,211	64,255	PF01459.21	Porin_3	248,1	1,00E-73	CL0193
TRINITY_DN10605_c0_g1_i4_2	9	20,4	73,254	107,51	PF02985.21	HEAT	20,8	0,00028	CL0020
TRINITY_DN7923_c0_g1_i1_1	7	17,7	39,462	59,663	PF01092.18	Ribosomal_S6e	193,2	1,20E-57	No_clan
TRINITY_DN8263_c0_g1_i2_2	10	16,1	82,616	72,432	PF03141.15	Methyltransf_29	756	1,60E-227	CL0063
TRINITY_DN5337_c0_g1_i1_4	7	22,2	54,663	74,427	PF00561.19	Abhydrolase_1	53,6	2,20E-14	CL0028
TRINITY_DN11163_c0_g1_i8_3	9	29,9	38,368	74,539	PF13460.5	NAD_binding_10	29,3	6,80E-07	CL0063
TRINITY_DN10512_c1_g1_i1_2	4	32	24,49	33,293	PF02221.14	E1_DerP2_DerF2	71,5	8,20E-20	CL0532
TRINITY_DN5432_c0_g1_i1_5	4	12,4	40,788	44,224	PF01459.21	Porin_3	252,8	3,70E-75	CL0193
TRINITY_DN10108_c0_g1_i2_5	9	20,4	75,079	89,143	PF02383.17	Syja_N	293,1	2,50E-87	CL0031
TRINITY_DN10975_c0_g2_i1_3	7	23,4	36,121	66,606	PF01287.19	eIF-5a	98,1	2,10E-28	CL0021
TRINITY_DN10736_c0_g1_i2_1	9	19,7	69,8	82,67	PF00342.18	PGI	725,6	2,30E-218	CL0067
TRINITY_DN7422_c0_g2_i1_2	9	27,5	57,306	106,44	PF01293.19	PEPCK_ATP	30,5	1,40E-07	CL0374
TRINITY_DN10308_c0_g1_i1_1	5	19,9	31,007	35,083	PF00572.17	Ribosomal_L13	34,7	1,70E-08	No_clan
TRINITY_DN10384_c0_g3_i1_3	12	30,5	59,994	77,962	PF00091.24	Tubulin	233,6	2,10E-69	CL0566
TRINITY_DN3139_c0_g1_i1_2	6	24,3	32,628	50,211	PF00227.25	Proteasome	200,3	1,90E-59	CL0052
TRINITY_DN10364_c0_g1_i3_6	4	41,2	15,22	29,242	PF05938.10	Self-incomp_S1	77,6	8,30E-22	No_clan
TRINITY_DN20886_c0_g1_i1_5	3	12,8	27,411	63,305	PF00085.19	Thioredoxin	63	1,90E-17	CL0172
TRINITY_DN10883_c0_g1_i3_5	8	31,8	39,176	90,704	PF00160.20	Pro_isomerase	164,2	2,50E-48	CL0475
TRINITY_DN17539_c0_g2_i1_3	8	31	40,334	80,968					

TRINITY_DN10477_c0_g1_i1_1	10	21,3	69,139	87,954	PF00118.23	Cpn60_TCP1	556,3	5,10E-167	No_clan
TRINITY_DN6686_c0_g1_i1_2	9	30,9	50,176	80,968	PF04053.13	Coatomer_WDAD	345,7	4,20E-103	CL0186
TRINITY_DN11212_c0_g1_i1_6	5	24,9	28,513	68,485	PF13085.5	Fer2_3	94,4	3,60E-27	CL0486
TRINITY_DN11023_c0_g1_i2_1	9	14,8	111,89	74,539	PF02922.17	CBM_48	65,9	2,90E-18	CL0369
TRINITY_DN11458_c0_g1_i1_1	10	21,1	74,844	77,347	PF00118.23	Cpn60_TCP1	499,7	7,50E-150	No_clan
TRINITY_DN11615_c0_g1_i1_1	12	20,5	95,006	80,315	PF00076.21	RRM_1	28,2	1,10E-06	CL0221
TRINITY_DN4509_c0_g2_i1_3	6	39,8	20,208	50,426	PF05907.12	DUF866	166	5,10E-49	No_clan
TRINITY_DN11335_c0_g1_i1_1	12	27,4	58,764	82,116	PF00118.23	Cpn60_TCP1	402,9	1,70E-120	No_clan
TRINITY_DN5118_c0_g2_i1_6	9	48,2	22,283	69,752	PF00270.28	DEAD	122	2,10E-35	CL0023
TRINITY_DN9738_c2_g1_i2_3	7	32,8	30,253	52,876	PF16845.4	SQAPI	73,1	1,60E-20	CL0121
TRINITY_DN11571_c2_g3_i1_1	9	22	61,042	35,328	PF00091.24	Tubulin	227,4	1,60E-67	CL0566
TRINITY_DN17391_c0_g1_i1_5	3	27,5	13,205	84,243	PF14368.5	LTP_2	30	3,90E-07	CL0482
TRINITY_DN10823_c0_g1_i1_1	10	24,8	68,696	96,599	PF00118.23	Cpn60_TCP1	530,2	4,10E-159	No_clan
TRINITY_DN11383_c0_g1_i1_2	6	25,2	36,255	59,501	PF00295.16	Glyco_hydro_28	86,7	1,40E-24	CL0268
TRINITY_DN6993_c0_g1_i3_2	8	15,9	64,672	72,754	PF00285.20	Citrate_synt	446,9	4,70E-134	No_clan
TRINITY_DN11668_c1_g1_i1_2	4	6	76,287	49,491	PF02326.14	YMF19	53,5	3,00E-14	CL0255
TRINITY_DN3731_c0_g1_i2_3	9	38,5	30,732	151,94	PF00162.18	PGK	253,9	2,20E-75	No_clan
TRINITY_DN10138_c0_g1_i1_3	2	3,7	81,879	13,865	PF02516.13	STT3	213,9	4,00E-63	CL0111
TRINITY_DN8211_c0_g1_i2_3	6	19,5	42,765	164,2	PF00561.19	Abhydrolase_1	74,2	1,20E-20	CL0028
TRINITY_DN20888_c0_g1_i1_3	3	49,4	9,0523	38,299					
TRINITY_DN11494_c0_g1_i2_5	3	16,4	31,171	19,297	PF00719.18	Pyrophosphatase	178,4	8,00E-53	No_clan
TRINITY_DN7194_c1_g1_i2_2	5	25,1	28,113	63,618	PF02775.20	TPP_enzyme_C	54,4	1,10E-14	CL0254
TRINITY_DN8262_c0_g1_i1_1	5	25,1	37,684	47,023	PF00044.23	Gp_dh_N	129,9	3,60E-38	CL0063
TRINITY_DN14510_c0_g1_i1_2	1	13,8	10,226	54,879	PF00332.17	Glyco_hydro_17	95,2	4,60E-27	CL0058
TRINITY_DN9908_c0_g1_i2_1	4	12,8	34,684	25,243	PF00702.25	Hydrolase	60,1	3,20E-16	CL0137
TRINITY_DN5370_c0_g1_i1_1	1	11,2	15,686	49,993					
TRINITY_DN2867_c0_g1_i2_6	4	29,9	15,642	25,359	PF00481.20	PP2C	127,8	5,00E-37	CL0238
TRINITY_DN10919_c0_g1_i5_1	1	10,4	10,629	6,9387	PF00112.22	Peptidase_C1	56,5	3,70E-15	CL0125
TRINITY_DN8081_c0_g1_i3_3	10	19,6	59,505	82,77	PF01370.20	Epimerase	151,9	1,80E-44	CL0063
TRINITY_DN10953_c0_g1_i1_4	5	25,7	41,988	44,505	PF00109.25	ketoacyl-synt	146,7	8,40E-43	CL0046
TRINITY_DN3942_c0_g1_i3_3	7	22,9	45,049	71,583	PF10584.8	Proteasome_A_N	51,3	6,00E-14	CL0052
TRINITY_DN6284_c0_g1_i1_3	4	19,5	22,719	51,993					
TRINITY_DN6272_c0_g1_i1_2	7	20,6	50,479	69,913	PF00013.28	KH_1	50,1	1,70E-13	CL0007

TRINITY_DN10835_c0_g1_i2_3	6	23,7	32,46	37,151	PF04774.14	HABP4_PAI-RBP1	97,4	8,80E-28	No_clan
TRINITY_DN3173_c0_g3_i1_1	7	27,7	26,847	64,102					
TRINITY_DN8566_c0_g1_i2_1	10	19,7	70,228	79,24	PF00118.23	Cpn60_TCP1	507,7	2,70E-152	No_clan
TRINITY_DN18516_c0_g1_i1_1	3	31,8	14,217	79,396					
TRINITY_DN10724_c0_g1_i4_1	5	14,2	47,284	62,789	PF01263.19	Aldose_epim	317,6	7,20E-95	CL0103
TRINITY_DN10229_c0_g1_i2_1	3	15,1	23,775	19,203	PF01776.16	Ribosomal_L22e	156,1	3,30E-46	No_clan
TRINITY_DN2734_c0_g1_i1_1	2	12,9	28,605	14,129	PF00290.19	Trp_syntA	240,3	1,40E-71	CL0036
TRINITY_DN2645_c0_g2_i1_3	5	22,1	27,942	92,393	PF13417.5	GST_N_3	64,6	7,40E-18	CL0172
TRINITY_DN11051_c0_g2_i2_2	10	22,7	59,201	70,048	PF16363.4	GDP_Man_Dehyd	177,7	3,50E-52	CL0063
TRINITY_DN6332_c0_g2_i1_3	4	18,7	31,734	70,161	PF10584.8	Proteasome_A_N	34,2	1,40E-08	CL0052
TRINITY_DN10847_c0_g1_i5_1	3	16	32,718	70,879	PF01217.19	Clat_adaptor_s	76,4	2,00E-21	CL0212
TRINITY_DN9500_c0_g1_i4_1	12	35	44,077	42,939	PF00118.23	Cpn60_TCP1	177,1	4,90E-52	No_clan
TRINITY_DN9205_c0_g1_i1_1	4	22,1	28,905	26,309	PF01849.17	NAC	68,6	3,10E-19	No_clan
TRINITY_DN10268_c0_g1_i1_1	9	18,8	71,781	66,994	PF07991.11	IlvN	108,5	2,20E-31	CL0063
TRINITY_DN11412_c0_g1_i3_3	18	37,2	70,751	31,289	PF00004.28	AAA	162	8,40E-48	CL0023
TRINITY_DN4589_c0_g1_i2_4	3	20,8	19,395	230,76	PF14368.5	LTP_2	48,9	4,90E-13	CL0482
TRINITY_DN11511_c2_g1_i3_5	2	16,5	13,133	12,832	PF02798.19	GST_N	70,7	9,30E-20	CL0172
TRINITY_DN3847_c0_g1_i1_1	11	36,5	41,138	200,1	PF00150.17	Cellulase	52,6	4,00E-14	CL0058
TRINITY_DN11039_c0_g1_i5_1	9	16,6	88,113	97,714	PF00501.27	AMP-binding	342,5	2,60E-102	CL0378
TRINITY_DN10019_c0_g2_i1_2	11	21,1	64,645	82,718	PF09326.10	NADH_dhqG_C	47,2	2,50E-12	No_clan
TRINITY_DN10360_c0_g3_i2_3	10	16,5	102,83	79,55	PF02922.17	CBM_48	74,7	5,30E-21	CL0369
TRINITY_DN11478_c0_g2_i1_2	8	21,6	52,257	54,272	PF00199.18	Catalase	579,5	3,10E-174	No_clan
TRINITY_DN16366_c0_g1_i1_4	2	20,2	13,988	82,582	PF00933.20	Glyco_hydro_3	55,6	4,80E-15	CL0058
TRINITY_DN9354_c0_g2_i1_2	8	31,2	37,17	64,761	PF00346.18	Complex1_49kDa	397,1	2,80E-119	No_clan
TRINITY_DN6770_c0_g1_i2_3	8	25,6	43,673	61,501	PF12697.6	Abhydrolase_6	29,8	7,80E-07	CL0028
TRINITY_DN5978_c0_g1_i1_4	4	23,5	19,356	61,292	PF00403.25	HMA	62,3	4,10E-17	No_clan
TRINITY_DN10247_c0_g2_i1_3	4	23,1	27,899	76,013	PF01661.20	Macro	125,4	1,00E-36	CL0223
TRINITY_DN8913_c1_g2_i1_1	7	18,9	55,174	66,433	PF08545.9	ACP_syn_III	96,5	5,50E-28	CL0046
TRINITY_DN11338_c0_g1_i2_4	4	21,3	31,201	69,919	PF02271.15	UCR_14kD	94,7	2,40E-27	No_clan
TRINITY_DN11312_c0_g1_i1_1	3	12,7	52,825	60,629	PF02167.14	Cytochrom_C1	323,8	5,10E-97	CL0318
TRINITY_DN10708_c0_g1_i1_2	7	33	29,358	114,61	PF00400.31	WD40	33,1	6,20E-08	CL0186
TRINITY_DN10573_c0_g1_i2_2	7	12,1	82,134	47,339	PF00637.19	Clathrin	94,5	4,60E-27	CL0020
TRINITY_DN6429_c0_g1_i3_5	9	36,8	32,736	85,128	PF06957.10	COPI_C	464,2	3,10E-139	CL0020

TRINITY_DN8180_c0_g1_i1_1	4	11,4	46,056	71,404	PF02900.17	LigB	196,2	5,00E-58	CL0283
TRINITY_DN11655_c0_g1_i2_2	13	15,5	117,87	123,79	PF00690.25	Cation_ATPase_N	50,6	1,10E-13	No_clan
TRINITY_DN8076_c0_g1_i7_3	4	17,8	30,195	42,04	PF00248.20	Aldo_ket_red	90,1	1,30E-25	No_clan
TRINITY_DN9094_c0_g1_i3_6	7	16,2	62,434	249,74	PF00790.18	VHS	97	7,60E-28	CL0009
TRINITY_DN9800_c0_g1_i1_1	5	8,5	68,08	33,997	PF10559.8	Plug_translocon	65,2	3,10E-18	No_clan
TRINITY_DN21582_c0_g1_i1_3	3	38,5	10,729	167,93	PF08327.10	AHSA1	36,2	5,40E-09	CL0209
TRINITY_DN11557_c0_g2_i2_1	3	16,2	34,188	47,139	PF01722.17	BolA	45,7	5,40E-12	No_clan
TRINITY_DN9080_c0_g1_i2_2	13	27,7	65,448	110,07	PF00155.20	Aminotran_1_2	123,2	1,30E-35	CL0061
TRINITY_DN19006_c0_g1_i1_5	10	36,8	30,894	79,363	PF02933.16	CDC48_2	26,7	3,20E-06	CL0402
TRINITY_DN2622_c0_g1_i1_2	4	19,6	20,796	88,776					
TRINITY_DN1894_c0_g2_i1_5	2	38,5	8,7636	12,884	PF07944.11	Glyco_hydro_127	52,4	2,90E-14	CL0059
TRINITY_DN10750_c0_g1_i1_2	6	21,6	34,292	62,445	PF00227.25	Proteasome	157,9	1,80E-46	CL0052
TRINITY_DN336_c0_g1_i1_1	8	22	48,356	79,114	PF14306.5	PUA_2	118,3	2,20E-34	CL0178
TRINITY_DN10712_c0_g1_i2_6	5	20,9	26,555	31,927	PF00380.18	Ribosomal_S9	107,7	4,70E-31	CL0329
TRINITY_DN2749_c0_g1_i1_2	13	30,5	77,788	112,05	PF02770.18	Acyl-CoA_dh_M	55	6,70E-15	No_clan
TRINITY_DN6944_c1_g2_i2_2	2	3,3	58,657	11,641	PF07765.11	KIP1	44,8	9,80E-12	No_clan
TRINITY_DN10708_c1_g1_i1_1	7	41,7	28,555	105,5	PF00400.31	WD40	22,7	0,00012	CL0186
TRINITY_DN8860_c0_g2_i3_2	5	18,2	44,501	108,84	PF08597.9	eIF3_subunit	174	4,40E-51	No_clan
TRINITY_DN2935_c0_g1_i1_4	4	46,8	10,484	26,601					
TRINITY_DN5345_c0_g1_i1_1	9	29,7	48,104	89,199	PF00782.19	DSPc	82,4	2,20E-23	CL0031
TRINITY_DN2696_c0_g1_i1_2	3	15,6	19,234	21,477	PF01199.17	Ribosomal_L34e	123,4	3,10E-36	No_clan
TRINITY_DN6268_c0_g2_i1_1	5	23	41,408	50,706	PF00005.26	ABC_tran	51,3	1,50E-13	CL0023
TRINITY_DN20535_c0_g1_i1_2	4	46,4	14,744	39,895	PF00076.21	RRM_1	25,7	6,70E-06	CL0221
TRINITY_DN6734_c0_g1_i2_4	7	28,7	48,862	75,657	PF00759.18	Glyco_hydro_9	336,2	3,40E-100	CL0059
TRINITY_DN10790_c0_g1_i1_2	2	12,6	25,296	16,439	PF01282.18	Ribosomal_S24e	125,3	6,20E-37	No_clan
TRINITY_DN11422_c0_g1_i2_2	5	21,3	35,039	34,858	PF00227.25	Proteasome	113,4	8,30E-33	CL0052
TRINITY_DN4447_c0_g1_i1_4	2	27	10,428	66,045	PF14368.5	LTP_2	33,9	2,40E-08	CL0482
TRINITY_DN10526_c0_g1_i1_1	2	20,4	11,515	95,696					
TRINITY_DN11588_c0_g1_i3_2	3	9,2	40,278	20,013	PF00400.31	WD40	16,8	0,0086	CL0186
TRINITY_DN11110_c0_g3_i1_1	3	12,6	26,878	66,851	PF00085.19	Thioredoxin	82,6	1,50E-23	CL0172
TRINITY_DN3777_c0_g1_i2_4	9	53,5	26,604	66,675	PF02545.13	Maf	147,3	3,40E-43	CL0269
TRINITY_DN17601_c0_g1_i1_6	3	24,2	13,211	29,722	PF00109.25	ketoacyl-synt	28,9	7,60E-07	CL0046
TRINITY_DN11006_c0_g1_i1_2	6	19,4	48,344	44,136	PF03168.12	LEA_2	55,4	6,40E-15	CL0159

TRINITY_DN16803_c0_g1_i1_5	2	27,5	9,8782	22,841	PF00637.19	Clathrin	37,9	1,40E-09	CL0020
TRINITY_DN22655_c0_g1_i1_2	4	53,2	8,5277	41,818	PF00182.18	Glyco_hydro_19	49,1	5,90E-13	CL0037
TRINITY_DN9863_c2_g1_i1_1	6	27,9	31,191	92,182	PF00071.21	Ras	203,7	1,20E-60	CL0023
TRINITY_DN7934_c0_g2_i1_1	5	25,3	29,399	61,17	PF01168.19	Ala_racemase_N	73,7	1,50E-20	CL0036
TRINITY_DN11256_c0_g1_i2_2	9	19,1	60,541	63,23	PF05470.11	eIF-3c_N	315,9	4,20E-94	No_clan
TRINITY_DN11403_c0_g1_i2_2	6	12,5	85,956	41,063	PF02990.15	EMP70	547,4	2,90E-164	No_clan
TRINITY_DN11547_c0_g1_i4_3	2	12,2	18,689	64,089	PF02109.15	DAD	129,7	5,00E-38	No_clan
TRINITY_DN8795_c0_g3_i1_4	3	19,5	13,487	30,487	PF01200.17	Ribosomal_S28e	83,3	8,30E-24	CL0021
TRINITY_DN5882_c0_g3_i2_3	4	29,5	20,207	63,232	PF00238.18	Ribosomal_L14	121,4	2,00E-35	No_clan
TRINITY_DN6879_c0_g1_i2_2	5	15,2	41,012	35,73	PF13176.5	TPR_7	14,4	0,027	CL0020
TRINITY_DN8601_c0_g1_i1_2	2	8,2	20,035	12,123					
TRINITY_DN11298_c0_g1_i2_4	8	15,4	77,215	81,856	PF14555.5	UBA_4	47,3	1,20E-12	CL0214
TRINITY_DN8357_c0_g1_i1_1	4	14,5	30,337	109,62	PF01652.17	IF4E	180	2,50E-53	CL0625
TRINITY_DN9107_c0_g1_i2_2	1	4	23,936	8,6627	PF01277.16	Oleosin	165,2	3,40E-49	No_clan
TRINITY_DN11330_c0_g1_i3_6	2	15,1	15,465	11,869	PF01667.16	Ribosomal_S27e	92,8	7,20E-27	CL0167
TRINITY_DN10810_c0_g1_i4_1	3	12,3	27,347	20,82					
TRINITY_DN8957_c0_g1_i1_1	1	2,7	36,034	6,6924					
TRINITY_DN8356_c0_g2_i1_1	6	15,5	51,193	41,911	PF02136.19	NTF2	58,2	1,00E-15	CL0051
TRINITY_DN10807_c0_g1_i5_1	9	24,8	51,428	57,62	PF00557.23	Peptidase_M24	74,5	8,60E-21	No_clan
TRINITY_DN11558_c0_g1_i1_1	14	16,2	116,67	97,532	PF01399.26	PCI	77,9	6,60E-22	CL0123
TRINITY_DN9852_c0_g1_i1_1	8	21,3	55,375	323,31	PF13519.5	VWA_2	96,1	1,70E-27	CL0128
TRINITY_DN11418_c0_g2_i2_5	6	26,4	36,836	51,059	PF01946.16	Thi4	377,6	1,60E-113	CL0063
TRINITY_DN5567_c0_g1_i3_3	2	8,7	18,659	7,5668	PF04568.11	IATP	25,3	1,40E-05	No_clan
TRINITY_DN10055_c0_g1_i2_3	5	6,6	74,611	29,958	PF04597.13	Ribophorin_I	477,1	6,00E-143	No_clan
TRINITY_DN8773_c0_g2_i2_4	7	17,6	56,394	86,969	PF05116.12	S6PP	339,9	7,70E-102	CL0137
TRINITY_DN2809_c0_g1_i1_6	5	55	12,378	217,73	PF00293.27	NUDIX	46,5	3,30E-12	CL0261
TRINITY_DN19230_c0_g1_i1_1	1	1,2	66,436	7,0086	PF01544.17	CorA	38,5	7,60E-10	No_clan
TRINITY_DN11224_c0_g1_i1_1	6	21,1	36,003	72,912	PF01991.17	vATP-synt_E	236,7	1,40E-70	CL0255
TRINITY_DN3638_c0_g1_i1_2	5	43,7	17,231	80,41	PF06094.11	GGACT	57,4	1,90E-15	CL0278
TRINITY_DN11495_c0_g1_i1_2	2	9,3	24,455	15,965	PF01929.16	Ribosomal_L14e	88,1	3,70E-25	CL0107
TRINITY_DN10903_c0_g1_i6_2	1	3,3	37,809	9,0443	PF00082.21	Peptidase_S8	72,4	3,50E-20	No_clan
TRINITY_DN4170_c0_g3_i2_2	7	21,6	54,974	54,744	PF01179.19	Cu_amine_oxid	441,9	2,00E-132	No_clan
TRINITY_DN10453_c0_g2_i2_3	3	11	32,505	18,908	PF00237.18	Ribosomal_L22	132	7,90E-39	No_clan

TRINITY_DN10548_c1_g1_i1_3	5	17,2	39,374	35,119	PF01459.21	Porin_3	206,3	5,30E-61	CL0193
TRINITY_DN9786_c0_g1_i2_4	4	14	36,986	28,37	PF00481.20	PP2C	192,4	1,00E-56	CL0238
TRINITY_DN307_c0_g2_i1_6	3	20,7	18,354	19,871	PF07944.11	Glyco_hydro_127	118,1	3,60E-34	CL0059
TRINITY_DN3566_c0_g1_i1_1	6	10,6	64,856	38,264	PF00364.21	Biotin_lipoyl	63,4	1,20E-17	CL0105
TRINITY_DN6229_c0_g1_i1_2	3	21,7	29,066	80,142	PF06747.12	CHCH	35,7	6,20E-09	CL0351
TRINITY_DN10335_c1_g2_i2_2	9	19,7	67,719	85,152	PF01336.24	tRNA_anti-codon	46,5	2,50E-12	CL0021
TRINITY_DN10820_c1_g1_i1_3	7	17,5	64,751	79,917	PF01512.16	Complex1_51K	161,4	1,20E-47	CL0105
TRINITY_DN4435_c0_g1_i1_1	1	15,1	7,23	46,704					
TRINITY_DN9270_c0_g2_i2_2	3	9,6	27,683	23,346	PF00833.17	Ribosomal_S17e	190,1	9,50E-57	No_clan
TRINITY_DN9549_c0_g1_i1_2	6	34,5	26,38	40,158	PF06703.10	SPC25	134,1	3,60E-39	No_clan
TRINITY_DN11397_c0_g1_i5_2	7	32,8	31,62	94,443	PF13012.5	MitMem_reg	81,5	5,20E-23	No_clan
TRINITY_DN11446_c0_g1_i1_2	11	18,4	100,03	79,359	PF05193.20	Peptidase_M16_C	95	5,10E-27	CL0094
TRINITY_DN11125_c0_g9_i1_3	3	17,8	24,653	26,245	PF01251.17	Ribosomal_S7e	264	6,00E-79	CL0652
TRINITY_DN7263_c1_g1_i1_1	10	34,6	33,121	70,656					
TRINITY_DN11387_c0_g1_i4_2	15	17,7	115,14	95,344	PF01851.21	PC_rep	21,9	0,00016	CL0020
TRINITY_DN11199_c0_g5_i8_6	2	5,9	45,981	51,621	PF01912.17	eIF-6	268,1	3,10E-80	CL0197
TRINITY_DN8461_c0_g1_i1_1	10	26,9	58,588	68,722	PF00067.21	p450	24,3	1,10E-05	No_clan
TRINITY_DN3481_c0_g1_i1_6	4	21,2	30,232	26,492	PF00227.25	Proteasome	135,7	1,20E-39	CL0052
TRINITY_DN5908_c0_g1_i1_3	4	10,8	39,9	24,944	PF01145.24	Band_7	91,6	5,30E-26	CL0433
TRINITY_DN8185_c0_g1_i1_1	2	13,7	24,676	22,727	PF03939.12	Ribosomal_L23eN	68,6	3,60E-19	No_clan
TRINITY_DN4115_c0_g1_i1_2	5	39,3	20,683	103,67					
TRINITY_DN5077_c0_g1_i1_1	10	32	50,758	69,351	PF00291.24	PALP	217,4	2,50E-64	No_clan
TRINITY_DN7999_c0_g1_i1_3	7	19,8	40,327	32,8	PF08079.11	Ribosomal_L30_N	93	9,20E-27	No_clan
TRINITY_DN12921_c0_g1_i1_3	1	6,2	24,645	6,3324					
TRINITY_DN2387_c0_g2_i1_1	5	40	21,077	44,889	PF16363.4	GDP_Man_Dehyd	34,3	1,50E-08	CL0063
TRINITY_DN9350_c0_g2_i2_2	4	16,7	25,686	46,823	PF01777.17	Ribosomal_L27e	105,1	1,70E-30	No_clan
TRINITY_DN10819_c0_g1_i1_3	7	17,5	58,025	43,259	PF10250.8	O-FucT	107,7	9,40E-31	CL0113
TRINITY_DN9863_c1_g1_i2_5	6	31,4	22,738	37,232	PF00071.21	Ras	145,1	1,30E-42	CL0023
TRINITY_DN9866_c0_g1_i1_1	4	16,4	30,021	25,371	PF16205.4	Ribosomal_S17_N	108,1	1,90E-31	No_clan
TRINITY_DN11562_c0_g1_i1_2	10	21,7	57,62	71,76	PF01399.26	PCI	76,5	1,80E-21	CL0123
TRINITY_DN11571_c4_g3_i1_2	12	32,5	59,849	43,856	PF00091.24	Tubulin	226,4	3,30E-67	CL0566
TRINITY_DN9464_c0_g1_i4_3	11	22,7	77,18	87,982	PF00549.18	Ligase_CoA	45,9	4,70E-12	CL0506
TRINITY_DN8433_c1_g1_i2_6	7	20,5	37,781	49,115	PF05755.11	REF	320,5	4,40E-96	No_clan

TRINITY_DN10036_c0_g1_i3_6	3	22,7	24,012	21,705	PF00428.18	Ribosomal_60s	84	7,50E-24	No_clan
TRINITY_DN10785_c0_g1_i1_3	4	17	21,745	7,1153	PF04043.14	PMEI	99,3	2,40E-28	No_clan
TRINITY_DN4427_c0_g2_i1_1	10	21,1	74,394	73,591	PF03485.15	Arg_tRNA_synt_N	56,9	2,30E-15	No_clan
TRINITY_DN8833_c0_g1_i2_2	4	16,7	27,974	32,317	PF03737.14	RraA-like	143,2	6,20E-42	CL0364
TRINITY_DN10152_c0_g1_i1_1	3	20,9	19,248	35,079	PF03297.14	Ribosomal_S25	133,6	2,20E-39	CL0123
TRINITY_DN11018_c0_g1_i2_1	6	16,1	59,367	48,18	PF00155.20	Aminotran_1_2	123	1,40E-35	CL0061
TRINITY_DN8141_c0_g2_i1_3	4	11,5	54,557	28,052	PF02779.23	Transket_pyr	158,1	1,60E-46	CL0254
TRINITY_DN18656_c0_g1_i1_2	3	41,3	8,3087	21,371					
TRINITY_DN9214_c0_g1_i3_1	10	22,1	60,478	82,304	PF00240.22	ubiquitin	30,5	2,00E-07	CL0072
TRINITY_DN5754_c0_g1_i1_1	5	28,2	27,96	323,31	PF00314.16	Thaumatin	205,8	6,30E-61	CL0293
TRINITY_DN4395_c0_g1_i1_4	10	31,4	43,739	91,025	PF00004.28	AAA	40,2	3,70E-10	CL0023
TRINITY_DN10088_c0_g2_i1_3	8	28,9	43,319	52,87	PF14226.5	DIOX_N	114,7	3,50E-33	CL0029
TRINITY_DN18481_c0_g2_i1_2	8	52,1	21,072	60,22	PF00071.21	Ras	128,7	1,40E-37	CL0023
TRINITY_DN3240_c0_g1_i1_2	3	15,5	30,751	199	PF12796.6	Ank_2	45,3	9,10E-12	CL0465
TRINITY_DN9575_c0_g1_i1_1	9	24,1	51,726	68,456	PF00226.30	DnaJ	78,4	2,90E-22	CL0392
TRINITY_DN8266_c0_g1_i1_1	4	28,9	15,852	24,312	PF01991.17	vATP-synt_E	87,3	8,30E-25	CL0255
TRINITY_DN3684_c0_g3_i1_2	9	55,4	19,83	31,956	PF01201.21	Ribosomal_S8e	117,6	4,10E-34	No_clan
TRINITY_DN27_c0_g2_i1_5	3	22,7	16,344	22,6	PF00248.20	Aldo_ket_red	65,7	3,40E-18	No_clan
TRINITY_DN14743_c0_g1_i1_2	5	54	12,909	32,928	PF00311.16	PEPcase	120	8,00E-35	CL0151
TRINITY_DN11580_c0_g1_i4_3	11	16	87,576	80,308	PF03141.15	Methyltransf_29	764,6	3,70E-230	CL0063
TRINITY_DN10635_c0_g1_i3_5	3	10,8	28,463	19,873	PF01157.17	Ribosomal_L21e	146,4	1,70E-43	CL0107
TRINITY_DN11567_c1_g2_i1_2	5	12,9	56,506	70,489					
TRINITY_DN11631_c0_g1_i3_2	3	5,5	86,718	18,245	PF00116.19	COX2	178,6	3,20E-53	CL0026
TRINITY_DN1621_c0_g2_i2_2	3	17,5	22,07	22,951	PF03947.17	Ribosomal_L2_C	119,2	1,10E-34	CL0107
TRINITY_DN8095_c0_g1_i1_1	2	10,3	20,305	12,083					
TRINITY_DN5554_c0_g2_i1_3	5	27,6	24,561	34,583	PF00543.21	P-II	112,2	1,50E-32	CL0089
TRINITY_DN11457_c0_g1_i1_3	9	24,2	55,29	89,299	PF01399.26	PCI	49,7	3,90E-13	CL0123
TRINITY_DN6500_c0_g2_i1_1	1	4,1	34,535	67,594	PF01472.19	PUA	67,6	6,20E-19	CL0178
TRINITY_DN7157_c0_g1_i1_3	7	17,5	46,495	46,772	PF00764.18	Arginosuc_synth	517,7	2,10E-155	CL0039
TRINITY_DN9819_c1_g2_i1_2	5	16,2	41,161	47,214	PF01145.24	Band_7	84,9	6,00E-24	CL0433
TRINITY_DN11038_c0_g2_i1_2	9	36,9	41,999	58,699	PF01412.17	ArfGap	119,8	5,70E-35	No_clan
TRINITY_DN9121_c0_g1_i2_6	7	18,1	49,38	51,288	PF13561.5	adh_short_C2	170	5,50E-50	CL0063
TRINITY_DN11575_c0_g1_i5_2	3	9,2	43,381	91,463	PF04756.12	OST3_OST6	250,1	2,60E-74	CL0172

TRINITY_DN11451_c0_g1_i1_2	8	15,6	72,694	82,083	PF00005.26	ABC_tran	80,5	1,50E-22	CL0023
TRINITY_DN11459_c1_g2_i1_2	23	35,6	82,244	14,499	PF00012.19	HSP70	874,7	2,30E-263	CL0108
TRINITY_DN9611_c0_g1_i1_6	4	20,3	30,29	30,166	PF01294.17	Ribosomal_L13e	260,2	8,90E-78	No_clan
TRINITY_DN118_c0_g1_i1_3	2	16,9	15,392	14,843	PF08244.11	Glyco_hydro_32C	84,1	9,90E-24	CL0004
TRINITY_DN7932_c0_g1_i8_5	6	16,1	65,168	120,23	PF01749.19	IBB	31,6	1,50E-07	CL0020
TRINITY_DN9613_c0_g2_i2_4	2	9,2	26,809	30,825	PF00254.27	FKBP_C	98,1	2,60E-28	CL0487
TRINITY_DN7103_c0_g2_i2_2	7	22,5	47,398	68,029	PF00226.30	DnaJ	88,7	1,90E-25	CL0392
TRINITY_DN11303_c0_g1_i1_1	5	12,1	58,221	37,434	PF09598.9	Stm1_N	75,8	3,20E-21	No_clan
TRINITY_DN10641_c0_g1_i1_6	8	23,4	47,797	53,511	PF00316.19	FBPase	265,3	2,10E-79	CL0171
TRINITY_DN11410_c0_g1_i1_4	4	15,9	31,676	30,005	PF00582.25	Usp	100,2	1,30E-28	CL0039
TRINITY_DN6205_c0_g1_i1_2	3	21,6	22,657	75,458	PF03179.14	V-ATPase_G	113	8,10E-33	CL0255
TRINITY_DN11159_c1_g1_i8_5	7	19,9	49,019	46,187	PF00201.17	UDPGT	87	1,10E-24	CL0113
TRINITY_DN9714_c0_g1_i1_1	12	34,3	54,429	92,733	PF02127.14	Peptidase_M18	542,4	6,60E-163	CL0035
TRINITY_DN4382_c0_g1_i1_1	8	21,4	60,143	61,025	PF00004.28	AAA	134,2	3,40E-39	CL0023
TRINITY_DN11626_c0_g2_i1_5	8	10,6	90,925	69,681	PF02990.15	EMP70	740,1	1,20E-222	No_clan
TRINITY_DN9896_c0_g1_i5_1	4	15,1	26,594	30,354	PF04667.16	Endosulfine	72,6	2,00E-20	No_clan
TRINITY_DN10351_c0_g1_i3_1	7	16,9	60,853	58,128	PF03224.13	V-ATPase_H_N	271	1,30E-80	CL0020
TRINITY_DN7143_c0_g1_i1_1	2	5,8	37,137	14,511	PF00248.20	Aldo_ket_red	175,7	1,10E-51	No_clan
TRINITY_DN11432_c0_g1_i1_6	7	22,1	41,781	14,517	PF08240.11	ADH_N	96,8	5,80E-28	CL0296
TRINITY_DN9820_c0_g1_i3_3	4	8,3	66,567	35,68	PF00394.21	Cu-oxidase	137,8	3,00E-40	CL0026
TRINITY_DN10026_c0_g1_i1_5	6	36	32,037	67,539	PF02115.16	Rho_GDI	270,6	6,70E-81	No_clan
TRINITY_DN11576_c1_g1_i1_2	3	10,7	52,172	91,741	PF00112.22	Peptidase_C1	259,1	4,20E-77	CL0125
TRINITY_DN18710_c0_g1_i1_2	6	36	23,871	53,943	PF04752.11	ChaC	172,7	7,30E-51	CL0278
TRINITY_DN11480_c0_g1_i1_2	6	19,3	44,225	41,552	PF13640.5	2OG-FeII_Oxy_3	76,7	1,90E-21	CL0029
TRINITY_DN16427_c0_g1_i1_4	4	38,3	14,945	93,932	PF00106.24	adh_short	139,5	8,00E-41	CL0063
TRINITY_DN21781_c0_g1_i1_6	4	67,1	7,7839	114,65	PF00141.22	peroxidase	25,1	1,20E-05	CL0617
TRINITY_DN840_c0_g2_i1_1	7	27,5	36,554	50,547	PF03081.14	Exo70	349,5	2,10E-104	CL0295
TRINITY_DN9473_c0_g1_i1_3	4	23,3	26,458	46,072	PF05564.11	Auxin_repressed	181	9,50E-54	No_clan
TRINITY_DN11010_c0_g1_i2_2	3	11,8	23,578	7,0909	PF02823.15	ATP-synt_DE_N	60	1,50E-16	No_clan
TRINITY_DN11411_c1_g1_i1_5	10	38,4	47,991	67,174	PF00438.19	S-AdoMet_synt_N	143,5	2,40E-42	No_clan
TRINITY_DN13141_c0_g1_i1_2	2	35,7	9,6717	12,07	PF01263.19	Aldose_epim	57,3	1,40E-15	CL0103
TRINITY_DN10770_c0_g1_i1_1	8	18,7	74,059	67,397	PF01326.18	PPDK_N	111,7	4,00E-32	CL0179
TRINITY_DN1431_c0_g2_i1_2	8	28	45,938	66,824	PF00343.19	Phosphorylase	282,9	4,90E-84	CL0113

TRINITY_DN19678_c0_g1_i1_1	6	17,6	36,974	39,873	PF10151.8	TMEM214	65,1	4,10E-18	No_clan
TRINITY_DN249_c0_g2_i1_1	6	26,1	32,841	59,464					
TRINITY_DN17357_c0_g1_i1_3	4	13,5	46,014	56,197	PF00291.24	PALP	225,9	6,30E-67	No_clan
TRINITY_DN5130_c1_g1_i1_6	7	27,8	44,1	85,247	PF10509.8	GalKase_gal_bdg	28,6	7,20E-07	CL0329
TRINITY_DN10160_c0_g1_i3_6	8	17,3	69,174	63,459	PF00390.18	malic	252,9	1,50E-75	CL0603
TRINITY_DN5845_c0_g1_i3_2	10	29,9	52,089	106,41	PF02403.21	Seryl_tRNA_N	76,3	1,80E-21	CL0298
TRINITY_DN8910_c0_g1_i1_1	5	22,2	39,725	48,607	PF00464.18	SHMT	427,5	3,60E-128	CL0061
TRINITY_DN11500_c0_g1_i1_3	8	18,4	53,492	55,816	PF00400.31	WD40	32,3	1,10E-07	CL0186
TRINITY_DN11156_c0_g1_i1_3	5	12,9	59,273	36,319	PF00202.20	Aminotran_3	303,4	1,90E-90	CL0061
TRINITY_DN10981_c0_g2_i2_6	4	15,7	53,228	30,662	PF03951.18	Gln-synt_N	38,8	5,30E-10	No_clan
TRINITY_DN10644_c0_g1_i1_2	4	14	28,925	26,966	PF00025.20	Arf	222,3	2,70E-66	CL0023
TRINITY_DN21106_c0_g2_i1_1	3	32,2	16,253	150,93	PF00188.25	CAP	39,9	6,00E-10	CL0659
TRINITY_DN7447_c0_g1_i1_2	2	8	23,221	29,686	PF00505.18	HMG_box	80	1,20E-22	CL0114
TRINITY_DN10179_c0_g2_i1_1	1	7,6	14,565	9,5185	PF01095.18	Pectinesterase	43,7	1,30E-11	CL0268
TRINITY_DN10614_c0_g1_i2_2	7	17,7	68,974	47,526	PF07994.11	NAD_binding_5	472	9,40E-142	CL0063
TRINITY_DN14470_c0_g1_i1_4	6	47,7	12,26	42,275	PF00012.19	HSP70	157,4	3,80E-46	CL0108
TRINITY_DN5970_c0_g1_i1_3	7	25,7	34,732	47,675	PF00191.19	Annexin	72,3	2,30E-20	No_clan
TRINITY_DN10916_c0_g1_i1_6	5	18,2	44,913	40,063	PF00491.20	Arginase	225	1,20E-66	CL0302
TRINITY_DN9868_c0_g1_i1_3	7	14,9	71,88	50,662	PF10255.8	Paf67	500,1	4,30E-150	CL0020
TRINITY_DN11613_c0_g1_i2_2	7	20,9	45,319	16,929	PF00248.20	Aldo_ket_red	265,6	4,40E-79	No_clan
TRINITY_DN11620_c1_g1_i4_6	4	13,1	46,085	42,378	PF16158.4	N_BRCA1_IG	108,8	1,70E-31	No_clan
TRINITY_DN17153_c0_g1_i1_1	2	14,9	23,146	323,31					
TRINITY_DN8763_c0_g2_i1_1	7	12,3	85,375	104,26	PF00501.27	AMP-binding	337,3	9,90E-101	CL0378
TRINITY_DN11270_c0_g2_i1_1	6	19,2	48,654	45,591	PF01926.22	MMR_HSR1	77	1,10E-21	CL0023
TRINITY_DN3573_c0_g1_i1_2	6	17,9	52,546	50,62	PF01571.20	GCV_T	294	8,30E-88	CL0289
TRINITY_DN7327_c0_g1_i2_5	6	18,9	44,388	38,853	PF00762.18	Ferrochelatase	367,5	4,70E-110	CL0043
TRINITY_DN6062_c0_g2_i3_1	3	10,6	40,839	22,506	PF00076.21	RRM_1	76,6	9,00E-22	CL0221
TRINITY_DN5393_c0_g1_i1_2	2	7,8	30,974	12,98					
TRINITY_DN21568_c0_g1_i2_1	4	25,6	22,749	27,707	PF01213.18	CAP_N	182,5	1,30E-53	No_clan
TRINITY_DN11022_c0_g1_i1_1	8	17,7	84,957	78,26					
TRINITY_DN9756_c0_g1_i3_1	9	30,1	51,285	93,455	PF01546.27	Peptidase_M20	78,5	5,00E-22	CL0035
TRINITY_DN8806_c0_g1_i5_2	12	19,1	100,56	88,443	PF02518.25	HATPase_c	49,9	3,70E-13	CL0025
TRINITY_DN7109_c0_g1_i1_2	4	20,4	29,643	46,433	PF00080.19	Sod_Cu	164,9	1,10E-48	No_clan

TRINITY_DN3282_c0_g2_i1_4	5	22,8	37,106	38,309	PF07992.13	Pyr_redox_2	142	2,00E-41	CL0063
TRINITY_DN6144_c0_g1_i1_3	7	58,4	17,579	7,8712	PF04043.14	PMEI	52,4	6,60E-14	No_clan
TRINITY_DN10924_c0_g1_i1_3	4	19,8	27,566	30,005	PF00081.21	Sod_Fe_N	44,3	1,70E-11	No_clan
TRINITY_DN8033_c0_g1_i1_2	9	28,8	47,127	112,55	PF03141.15	Methyltransf_29	417	9,10E-125	CL0063
TRINITY_DN11083_c0_g1_i2_1	6	16,4	41,478	37,681	PF10151.8	TMEM214	53,9	1,00E-14	No_clan
TRINITY_DN9815_c0_g1_i1_2	7	23,9	53,017	100,83	PF00956.17	NAP	288,7	3,10E-86	No_clan
TRINITY_DN9347_c0_g1_i1_1	3	9,5	44,59	31,518	PF02921.13	UCR_TM	45,7	6,20E-12	CL0300
TRINITY_DN10872_c0_g1_i8_4	5	8,5	79,483	38,293	PF02990.15	EMP70	570,3	3,40E-171	No_clan
TRINITY_DN12354_c0_g1_i1_2	1	27,1	11,95	10,188	PF02115.16	Rho_GDI	118,6	2,60E-34	No_clan
TRINITY_DN6584_c0_g2_i1_1	5	30,1	19,335	15,058	PF00248.20	Aldo_ket_red	95,9	2,10E-27	No_clan
TRINITY_DN10462_c0_g1_i1_2	3	8,7	44,779	20,524	PF02629.18	CoA_binding	110,6	4,10E-32	CL0063
TRINITY_DN9076_c0_g2_i1_2	6	16,4	45,435	40,678	PF01546.27	Peptidase_M20	83,5	1,50E-23	CL0035
TRINITY_DN527_c0_g2_i1_3	2	23,7	14,545	20,742	PF00411.18	Ribosomal_S11	91,2	4,80E-26	CL0267
TRINITY_DN19375_c0_g1_i1_3	2	21,4	8,68	11,817	PF02826.18	2-Hacid_dh_C	70,6	9,80E-20	CL0063
TRINITY_DN9641_c0_g1_i1_2	8	31,2	43,47	113,82					
TRINITY_DN22097_c0_g1_i1_5	3	25,4	13,443	45,202					
TRINITY_DN12939_c0_g1_i1_5	7	44,9	25,321	52,713	PF00295.16	Glyco_hydro_28	229,6	4,60E-68	CL0268
TRINITY_DN12440_c0_g1_i1_2	5	43,7	18,274	34,294	PF00180.19	Iso_dh	113,2	1,30E-32	CL0270
TRINITY_DN21623_c0_g1_i1_1	2	50	8,3445	64,316	PF00141.22	peroxidase	74	1,30E-20	CL0617
TRINITY_DN10464_c0_g1_i1_6	7	18,3	64,768	50,985	PF00171.21	Aldedh	569	5,60E-171	CL0099
TRINITY_DN9302_c0_g1_i1_2	4	18,4	27,526	78,437	PF05938.10	Self-incomp_S1	57,1	1,90E-15	No_clan
TRINITY_DN1467_c0_g1_i1_4	6	26	31,591	61,906					
TRINITY_DN10869_c1_g3_i1_5	3	17,2	25,117	78,332	PF00314.16	Thaumatin	272,1	3,40E-81	CL0293
TRINITY_DN11008_c0_g1_i3_3	9	18,4	62,726	113,41	PF00464.18	SHMT	693,4	6,30E-209	CL0061
TRINITY_DN5035_c0_g1_i1_1	4	20,7	33,799	30,121	PF00300.21	His_Phos_1	73,9	1,30E-20	CL0071
TRINITY_DN11340_c0_g1_i2_2	8	13,8	84,812	72,399	PF14749.5	Acyl-CoA_ox_N	116,4	1,00E-33	CL0544
TRINITY_DN10734_c1_g1_i1_1	2	5,8	38,789	14,207					
TRINITY_DN10680_c4_g1_i3_4	7	63,5	10,772	8,1156	PF00240.22	ubiquitin	44,6	8,40E-12	CL0072
TRINITY_DN11420_c0_g1_i4_2	7	17,5	58,07	63,606	PF01532.19	Glyco_hydro_47	518,3	1,70E-155	CL0059
TRINITY_DN1806_c0_g1_i1_6	5	36,4	17,236	39,435	PF02990.15	EMP70	95,2	3,30E-27	No_clan
TRINITY_DN9463_c0_g1_i1_2	6	23,2	40,55	46,139	PF00118.23	Cpn60_TCP1	326,8	1,90E-97	No_clan
TRINITY_DN2883_c0_g1_i1_1	2	50	7,89	24,676					
TRINITY_DN11614_c0_g1_i5_1	7	22,1	53	54,368	PF01237.17	Oxysterol_BP	330,4	1,10E-98	No_clan

TRINITY_DN8774_c0_g2_i2_6	6	14,7	71,75	48,856	PF13905.5	Thioredoxin_8	93,1	9,50E-27	CL0172
TRINITY_DN9582_c0_g2_i1_5	8	30,2	39,4	71,984	PF00227.25	Proteasome	163,1	4,70E-48	CL0052
TRINITY_DN8902_c0_g1_i2_5	7	20,7	48,238	109,92	PF01363.20	FYVE	72,6	2,00E-20	CL0390
TRINITY_DN11545_c0_g1_i3_2	4	8,3	60,459	163,94	PF16499.4	Melibiase_2	284	1,00E-84	CL0058
TRINITY_DN11179_c0_g1_i4_3	6	18,1	50,213	46,26	PF01063.18	Aminotran_4	145,9	1,50E-42	No_clan
TRINITY_DN10263_c1_g1_i2_1	2	6,4	33,268	16,217	PF00179.25	UQ_con	127,5	2,60E-37	CL0208
TRINITY_DN9576_c0_g1_i2_5	3	19,9	19,699	18,972	PF02953.14	zf-Tim10_DDP	67,9	4,10E-19	No_clan
TRINITY_DN7960_c0_g1_i1_2	12	16	117,55	92,397	PF02861.19	Clp_N	62,3	3,10E-17	No_clan
TRINITY_DN5577_c0_g1_i1_5	1	3,7	26,326	16,53	PF00658.17	PABP	96,1	9,50E-28	No_clan
TRINITY_DN4472_c0_g1_i1_5	2	10,8	28,085	13,683	PF01248.25	Ribosomal_L7Ae	85,5	1,40E-24	CL0101
TRINITY_DN10370_c0_g1_i1_3	6	17	54,127	47,559	PF13646.5	HEAT_2	50,3	2,20E-13	CL0020
TRINITY_DN8106_c0_g1_i1_5	3	10,5	43,356	20,301	PF01182.19	Glucosamine_iso	244,2	1,40E-72	CL0246
TRINITY_DN11090_c0_g2_i6_4	2	13,8	19,922	11,64	PF00428.18	Ribosomal_60s	48,1	1,20E-12	No_clan
TRINITY_DN10461_c0_g1_i3_3	4	9,4	66,238	51,78	PF00450.21	Peptidase_S10	427,5	7,20E-128	CL0028
TRINITY_DN579_c0_g1_i1_3	1	3,7	29,47	6,7249					
TRINITY_DN14915_c0_g1_i1_3	2	26	7,9229	16,283	PF06094.11	GGACT	28,7	1,50E-06	CL0278
TRINITY_DN11178_c0_g1_i2_1	2	13,8	22,852	17,745	PF03227.15	GILT	33,8	3,00E-08	CL0172
TRINITY_DN8448_c0_g1_i1_1	6	25,5	33,677	46,842	PF06552.11	TOM20_plant	326,7	3,80E-98	CL0020
TRINITY_DN11626_c0_g1_i4_5	7	12,6	83,015	39,204	PF02990.15	EMP70	713,2	1,70E-214	No_clan
TRINITY_DN6292_c0_g2_i1_4	4	28,4	21,206	41,343	PF02800.19	Gp_dh_C	149,7	4,60E-44	CL0139
TRINITY_DN5457_c0_g1_i1_3	3	12,1	30,69	27,151	PF00857.19	Isochorismatase	113,8	9,00E-33	No_clan
TRINITY_DN6422_c0_g1_i1_2	5	14,8	44,466	48,891	PF00288.25	GHMP_kinases_N	42,6	4,80E-11	CL0329
TRINITY_DN7995_c0_g2_i1_1	4	22	28,52	21,463	PF00071.21	Ras	217,7	5,90E-65	CL0023
TRINITY_DN8330_c0_g1_i1_3	2	10,2	23,048	58,786	PF00550.24	PP-binding	44	1,90E-11	CL0314
TRINITY_DN10167_c0_g2_i1_3	3	12,4	28,128	20,804	PF01246.19	Ribosomal_L24e	99,8	6,60E-29	CL0175
TRINITY_DN9776_c0_g1_i4_2	4	9,9	47,908	26,214	PF01813.16	ATP-synt_D	231,6	6,40E-69	No_clan
TRINITY_DN11503_c0_g1_i1_1	3	15,1	32,378	42,547	PF07859.12	Abhydrolase_3	148,8	1,70E-43	CL0028
TRINITY_DN11383_c0_g1_i3_1	4	23,7	22,724	28,354	PF00295.16	Glyco_hydro_28	33,9	1,60E-08	CL0268
TRINITY_DN10659_c0_g1_i3_2	5	22,5	37,426	39,949	PF01583.19	APS_kinase	234,3	5,00E-70	CL0023
TRINITY_DN10371_c0_g1_i1_2	4	25	29,118	33,715	PF00582.25	Usp	98,4	4,50E-28	CL0039
TRINITY_DN6420_c0_g1_i1_4	3	12,7	25,242	17,979	PF04718.14	ATP-synt_G	79,3	2,80E-22	No_clan
TRINITY_DN10875_c0_g1_i2_2	6	18	58,688	58,842	PF00004.28	AAA	142,9	6,90E-42	CL0023
TRINITY_DN9826_c0_g1_i1_3	6	23,4	37,986	39,036	PF00004.28	AAA	138,3	1,90E-40	CL0023

TRINITY_DN8975_c0_g1_i1_3	6	18,4	44,404	56,196	PF00206.19	Lyase_1	206,7	5,20E-61	No_clan
TRINITY_DN8607_c0_g1_i2_1	1	5,1	26,83	8,6938	PF00190.21	Cupin_1	168,1	9,30E-50	CL0029
TRINITY_DN11635_c2_g1_i9_3	6	55,3	12,841	7,9892	PF00248.20	Aldo_ket_red	123,3	9,60E-36	No_clan
TRINITY_DN17821_c0_g1_i1_3	1	3,8	29,293	6,2728	PF00076.21	RRM_1	36,7	2,50E-09	CL0221
TRINITY_DN3258_c0_g1_i1_2	7	46,1	24,652	130,32	PF00400.31	WD40	17,9	0,0039	CL0186
TRINITY_DN10762_c0_g1_i1_1	4	21,3	25,202	85,637	PF00234.21	Tryp_alpha_amyl	30,8	2,70E-07	CL0482
TRINITY_DN10328_c0_g2_i1_2	7	20,1	54,03	51,434	PF02784.15	Orn_Arg_deC_N	164,4	2,70E-48	CL0036
TRINITY_DN11289_c0_g2_i2_2	6	13,2	53,359	45,869	PF10602.8	RPN7	195,1	7,00E-58	CL0020
TRINITY_DN4969_c0_g1_i1_3	6	23,9	45,437	43,545	PF01459.21	Porin_3	269,3	3,50E-80	CL0193
TRINITY_DN12289_c0_g1_i1_5	8	48,7	21,329	161,8					
TRINITY_DN11225_c0_g1_i1_3	6	16,8	49,395	44,621	PF05368.12	NmrA	266	2,50E-79	CL0063
TRINITY_DN20631_c0_g1_i1_5	2	31,9	7,7726	18,264					
TRINITY_DN15095_c0_g1_i1_4	6	36,6	18,42	110,17	PF00076.21	RRM_1	59,8	1,60E-16	CL0221
TRINITY_DN10798_c0_g1_i1_3	4	5,5	78,158	28,571	PF02516.13	STT3	323,1	3,10E-96	CL0111
TRINITY_DN17510_c0_g1_i1_2	6	24	29,245	43,961	PF01026.20	TatD_DNase	96,4	1,60E-27	CL0034
TRINITY_DN6021_c0_g1_i1_3	3	13,8	29,199	35,427	PF06417.11	DUF1077	124,1	2,60E-36	No_clan
TRINITY_DN9758_c0_g1_i1_3	1	4,1	26,394	7,0352					
TRINITY_DN2208_c0_g1_i1_1	4	19,9	32,216	71,573	PF02729.20	OTCace_N	137,2	3,80E-40	No_clan
TRINITY_DN11722_c0_g1_i1_5	3	33	12,665	31,376	PF00141.22	peroxidase	90,9	9,10E-26	CL0617
TRINITY_DN17467_c0_g1_i1_1	6	43,3	17,165	39,516	PF00152.19	tRNA-synt_2	50,1	1,90E-13	CL0040
TRINITY_DN3823_c0_g1_i1_6	2	6,4	48,072	15,344	PF03661.12	UPF0121	61,4	7,60E-17	No_clan
TRINITY_DN11535_c0_g1_i2_3	3	17,6	19,928	18,522	PF00338.21	Ribosomal_S10	94,9	2,50E-27	No_clan
TRINITY_DN8730_c1_g1_i1_2	6	20,7	51,583	320,16	PF00581.19	Rhodanese	52,5	5,30E-14	CL0031
TRINITY_DN2631_c0_g3_i1_2	1	13	21,988	37,238					
TRINITY_DN9280_c0_g2_i4_2	5	21,4	44,035	68,486	PF05091.11	eIF-3_zeta	398	7,50E-119	CL0236
TRINITY_DN5611_c0_g4_i1_3	6	25,6	35,899	39,825	PF13774.5	Longin	82,7	1,30E-23	No_clan
TRINITY_DN4378_c0_g1_i2_2	13	21	98,797	92,859	PF01411.18	tRNA-synt_2c	572,8	6,30E-172	CL0040
TRINITY_DN4596_c0_g1_i1_5	4	41,5	13,166	20,952	PF00724.19	Oxidored_FMN	43,2	2,70E-11	CL0036
TRINITY_DN11195_c0_g1_i1_2	2	4,2	60,588	13,338	PF00067.21	p450	346,9	1,60E-103	No_clan
TRINITY_DN4293_c0_g1_i1_4	6	19,5	52,316	52,685					
TRINITY_DN8155_c0_g1_i2_3	6	25,5	47,084	50,226	PF02771.15	Acyl-CoA_dh_N	120,1	6,70E-35	CL0544
TRINITY_DN9942_c0_g1_i1_4	11	22,2	68,016	95,993	PF12580.7	TPPII	213,3	1,80E-63	No_clan
TRINITY_DN11521_c0_g1_i3_1	6	17,1	49,238	55,276	PF00575.22	S1	49,1	4,80E-13	CL0021

TRINITY_DN10407_c0_g1_i1_3	6	16	50,563	46,738	PF00295.16	Glyco_hydro_28	321,6	4,60E-96	CL0268
TRINITY_DN11080_c0_g1_i1_1	3	18,7	22,269	27,013	PF01655.17	Ribosomal_L32e	170,1	1,40E-50	No_clan
TRINITY_DN12642_c0_g1_i1_3	5	25,6	34,092	38,156	PF09177.10	Syntaxin-6_N	85,1	3,60E-24	No_clan
TRINITY_DN10964_c0_g1_i1_1	2	12,3	19,779	12,488	PF00831.22	Ribosomal_L29	62,7	2,20E-17	CL0346
TRINITY_DN11121_c0_g1_i1_6	2	9,2	37,806	38,79	PF01596.16	Methyltransf_3	286,2	9,90E-86	CL0063
TRINITY_DN8201_c0_g2_i1_1	6	18,3	56,392	45,462	PF01370.20	Epimerase	79,9	1,80E-22	CL0063
TRINITY_DN2407_c0_g1_i1_1	5	18,8	36,94	31,284	PF13848.5	Thioredoxin_6	55,9	4,80E-15	CL0172
TRINITY_DN18360_c0_g1_i1_1	3	24,3	20,299	23,836	PF06747.12	CHCH	27,8	1,80E-06	CL0351
TRINITY_DN7023_c0_g1_i2_1	4	20,3	26,008	173,25					
TRINITY_DN10334_c0_g1_i2_3	4	21,7	36,811	36,955	PF01039.21	Carboxyl_trans	70	1,50E-19	CL0127
TRINITY_DN3765_c0_g1_i1_1	1	11,7	8,8628	7,5065					
TRINITY_DN6855_c0_g1_i1_1	5	17,1	46,468	41,253	PF05470.11	eIF-3c_N	447,2	7,10E-134	No_clan
TRINITY_DN9376_c1_g3_i1_4	1	1,4	71,101	6,4226					
TRINITY_DN13181_c0_g1_i1_4	5	56,1	13,43	29,968	PF00224.20	PK	119	1,90E-34	CL0151
TRINITY_DN6915_c0_g2_i2_2	4	23,5	12,462	27,464	PF02704.13	GASA	82,1	2,20E-23	No_clan
TRINITY_DN8184_c1_g1_i1_1	5	12,8	53,616	89,783	PF02878.15	PGM_PMM_I	86,6	1,10E-24	No_clan
TRINITY_DN19070_c0_g1_i1_2	1	9,6	12,052	12,778	PF08991.9	MTCP1	28,9	9,10E-07	CL0351
TRINITY_DN20708_c0_g1_i1_4	2	24,2	10,308	13,463	PF01918.20	Alba	73,2	1,00E-20	CL0441
TRINITY_DN11287_c0_g1_i2_3	5	23,5	38,291	49,76	PF03446.14	NAD_binding_2	141,6	2,10E-41	CL0063
TRINITY_DN9456_c0_g1_i4_3	3	9,8	46,86	32,455	PF12701.6	LSM14	108,5	1,20E-31	CL0527
TRINITY_DN8791_c0_g1_i1_3	3	15,9	29,472	17,745	PF00071.21	Ras	136,4	5,90E-40	CL0023
TRINITY_DN4375_c0_g3_i1_3	8	34,2	32,531	34,415	PF00071.21	Ras	198	6,60E-59	CL0023
TRINITY_DN10343_c0_g1_i4_1	5	14,7	35,238	29,883	PF01213.18	CAP_N	70,5	1,60E-19	No_clan
TRINITY_DN18958_c0_g1_i1_3	1	4,3	27,793	6,5558					
TRINITY_DN4412_c0_g1_i1_3	11	26,6	61,323	74,438	PF13943.5	WPP	99,9	7,80E-29	No_clan
TRINITY_DN3095_c0_g1_i2_2	5	22,4	25,521	40,397	PF11938.7	DUF3456	118,2	4,20E-34	No_clan
TRINITY_DN10358_c0_g1_i1_1	6	20,8	37,612	47,644	PF01873.16	eIF-5_eIF-2B	134,1	1,80E-39	No_clan
TRINITY_DN16061_c0_g1_i1_3	2	43,1	7,5406	124,95					
TRINITY_DN5302_c0_g1_i1_6	3	12	22,636	27,738	PF00248.20	Aldo_ket_red	71,6	5,70E-20	No_clan
TRINITY_DN11246_c1_g4_i2_1	3	19,6	17,066	11,584	PF08069.11	Ribosomal_S13_N	109	8,00E-32	No_clan
TRINITY_DN19132_c0_g1_i1_5	1	12	10,337	6,8018	PF13668.5	Ferritin_2	46,9	2,60E-12	CL0044
TRINITY_DN9764_c0_g1_i1_3	8	10,7	86,832	55,126	PF04068.14	RLI	50,9	9,40E-14	CL0344
TRINITY_DN7237_c0_g2_i1_3	3	13,5	30,626	161,9	PF03912.13	Psb28	144,9	8,50E-43	No_clan

TRINITY_DN11279_c0_g2_i3_5	4	22,7	35,497	29,431	PF00112.22	Peptidase_C1	249	4,80E-74	CL0125
TRINITY_DN10730_c0_g1_i1_1	9	14,5	84,751	72,017	PF06964.11	Alpha-L-AF_C	119,1	2,00E-34	CL0369
TRINITY_DN11396_c1_g1_i3_2	1	4,8	31,498	6,9537					
TRINITY_DN10977_c0_g1_i1_6	6	17,4	62,99	47,402	PF00270.28	DEAD	129,7	8,60E-38	CL0023
TRINITY_DN9743_c0_g2_i2_1	4	16,8	43,327	49,953	PF10075.8	CSN8_PSD8_EIF3K	88,6	3,40E-25	CL0123
TRINITY_DN10127_c0_g1_i2_5	1	10,2	19,717	38,513	PF01247.17	Ribosomal_L35Ae	151	7,50E-45	CL0575
TRINITY_DN10738_c0_g1_i2_5	7	11,7	79,049	55,255	PF13537.5	GATase_7	148,5	7,70E-44	CL0052
TRINITY_DN6947_c0_g1_i5_4	2	32,4	7,7025	14,263	PF00262.17	Calreticulin	56,8	1,60E-15	CL0004
TRINITY_DN4336_c0_g1_i1_3	6	24,3	37,228	45,915	PF03447.15	NAD_binding_3	49,5	5,40E-13	CL0063
TRINITY_DN11277_c0_g1_i2_2	8	16,6	64,005	78,611	PF00282.18	Pyridoxal_deC	346,4	1,40E-103	CL0061
TRINITY_DN3905_c0_g2_i2_3	4	17,9	41,293	27,663	PF08511.10	COQ9	98,5	1,30E-28	No_clan
TRINITY_DN5130_c0_g2_i1_3	3	41,4	9,1602	24,863					
TRINITY_DN21282_c0_g1_i1_3	3	36,5	11,633	20,765	PF00626.21	Gelsolin	24,3	2,00E-05	CL0092
TRINITY_DN7375_c0_g1_i1_1	4	34,9	22,16	29,015					
TRINITY_DN10410_c0_g1_i1_3	2	5,6	37,859	12,815	PF01257.18	2Fe-2S_thioredx	186,5	2,00E-55	CL0172
TRINITY_DN10668_c0_g1_i2_2	2	6,3	45,542	12,965					
TRINITY_DN1129_c0_g1_i1_2	7	31	38,699	55,824	PF13460.5	NAD_binding_10	73,7	1,60E-20	CL0063
TRINITY_DN9363_c0_g1_i2_2	6	20,5	35,938	49,899	PF00406.21	ADK	196,7	1,90E-58	CL0023
TRINITY_DN8678_c0_g3_i5_1	4	24,7	23,644	26,667	PF12353.7	eIF3g	33,2	5,20E-08	CL0511
TRINITY_DN9856_c0_g1_i2_6	5	13,8	49,396	36,353	PF16363.4	GDP_Man_Dehyd	230,5	3,00E-68	CL0063
TRINITY_DN16281_c0_g1_i1_4	3	31,7	10,597	26,524					
TRINITY_DN8090_c1_g1_i1_6	6	31,7	26,516	41,052	PF02575.15	YbaB_DNA_bd	61,4	6,50E-17	No_clan
TRINITY_DN18348_c0_g1_i1_1	3	32,1	12,961	22,994					
TRINITY_DN11641_c0_g1_i5_1	1	2,8	46,195	6,6712					
TRINITY_DN13961_c0_g1_i1_1	1	11	7,5687	-2					
TRINITY_DN1808_c0_g1_i1_6	6	30,2	22,211	12,58	PF00240.22	ubiquitin	63,1	1,40E-17	CL0072
TRINITY_DN10282_c0_g1_i6_1	5	31,9	22,472	30,693	PF00462.23	Glutaredoxin	62,3	3,30E-17	CL0172
TRINITY_DN11194_c0_g1_i1_2	4	21	26,145	29,049					
TRINITY_DN4777_c0_g2_i2_3	2	5,6	32,021	16,391	PF02453.16	Reticulon	193,3	2,10E-57	No_clan
TRINITY_DN11197_c0_g1_i1_5	3	15,3	30,287	49,742	PF02466.18	Tim17	48,3	9,30E-13	No_clan
TRINITY_DN1802_c0_g1_i1_4	4	25,1	26,7	21,117	PF01991.17	vATP-synt_E	142,3	1,10E-41	CL0255
TRINITY_DN10578_c0_g2_i1_1	2	7,5	39,94	13,438	PF01086.16	Clathrin_lg_ch	45,3	1,00E-11	No_clan
TRINITY_DN17430_c0_g1_i1_5	3	20,7	17,758	21,677	PF01161.19	PBP	95,1	3,80E-27	No_clan

TRINITY_DN9138_c0_g1_i1_4	2	8,8	29,024	26,551	PF00160.20	Pro_isomerase	175,6	7,90E-52	CL0475
TRINITY_DN10772_c1_g1_i1_2	5	15,2	55,568	41,645	PF00149.27	Metallophos	123,4	1,60E-35	CL0163
TRINITY_DN11439_c0_g1_i2_4	3	14,2	37,029	103,37	PF00227.25	Proteasome	101,4	4,00E-29	CL0052
TRINITY_DN7730_c0_g1_i3_4	6	16,5	44,733	38,541	PF00291.24	PALP	224,2	2,10E-66	No_clan
TRINITY_DN10562_c0_g1_i5_3	3	6,9	60,237	22,855	PF00557.23	Peptidase_M24	185,9	6,80E-55	No_clan
TRINITY_DN8163_c0_g1_i1_1	6	16,7	54,078	43,415	PF01546.27	Peptidase_M20	126	1,50E-36	CL0035
TRINITY_DN10420_c0_g1_i3_2	5	27,4	37,776	45,362	PF00970.23	FAD_binding_6	109,1	1,00E-31	CL0076
TRINITY_DN10122_c0_g1_i1_3	3	22,5	20,63	54,491	PF00462.23	Glutaredoxin	79,5	1,50E-22	CL0172
TRINITY_DN7204_c0_g1_i1_1	1	6,4	23,537	31,421					
TRINITY_DN11311_c0_g1_i2_2	6	16,4	48,071	110,17	PF00128.23	Alpha-amylase	54,3	1,40E-14	CL0058
TRINITY_DN11251_c0_g1_i2_1	10	22,3	70,987	73,784	PF07724.13	AAA_2	185,8	6,30E-55	CL0023
TRINITY_DN2678_c0_g1_i1_1	2	28	8,0644	13,764					
TRINITY_DN9042_c0_g1_i1_3	7	36,5	36,703	70,641	PF03807.16	F420_oxidored	68,8	4,30E-19	CL0063
TRINITY_DN134_c0_g1_i3_5	6	22,5	47,374	323,31	PF14686.5	fn3_3	89,3	9,50E-26	CL0287
TRINITY_DN7354_c1_g1_i1_2	3	24,5	27,65	20,031	PF06172.10	Cupin_5	147,5	2,10E-43	CL0029
TRINITY_DN7673_c0_g1_i1_3	4	22	25,578	24,454	PF00690.25	Cation_ATPase_N	40	2,10E-10	No_clan
TRINITY_DN5029_c0_g1_i1_6	9	12,7	92,295	79,14					
TRINITY_DN4009_c0_g1_i2_3	3	29,4	18,461	20,823	PF00343.19	Phosphorylase	148,7	1,80E-43	CL0113
TRINITY_DN4424_c0_g1_i3_3	7	24,8	48,673	68,952	PF08240.11	ADH_N	97,9	2,70E-28	CL0296
TRINITY_DN17664_c0_g2_i1_3	5	55,2	14,667	44,249					
TRINITY_DN7316_c0_g1_i1_3	6	29,9	40,494	147,9	PF00206.19	Lyase_1	272,6	4,30E-81	No_clan
TRINITY_DN9014_c0_g1_i1_3	1	7,2	35	57,486	PF13833.5	EF-hand_8	18,4	0,0013	CL0220
TRINITY_DN17081_c0_g1_i1_1	3	40,2	11,562	36,56	PF00311.16	PEPcase	30,2	1,10E-07	CL0151
TRINITY_DN7215_c0_g1_i1_5	2	24	15,088	14,395	PF03911.15	Sec61_beta	64,6	5,40E-18	No_clan
TRINITY_DN11034_c0_g1_i3_3	1	4,1	26,444	6,5762	PF02221.14	E1_DerP2_DerF2	76,4	2,50E-21	CL0532
TRINITY_DN21713_c0_g1_i1_2	4	43,7	13,943	36,108					
TRINITY_DN7461_c0_g1_i1_6	5	11,2	43,611	31,831	PF01025.18	GrpE	153,3	4,20E-45	No_clan
TRINITY_DN10238_c0_g2_i1_1	6	12,4	80,39	47,859	PF03141.15	Methyltransf_29	727,7	6,00E-219	CL0063
TRINITY_DN2462_c0_g2_i1_2	5	13,1	50,306	35,957	PF00627.30	UBA	31,3	1,20E-07	CL0214
TRINITY_DN16740_c0_g1_i1_5	2	28,2	7,4792	13,741					
TRINITY_DN7713_c0_g1_i1_6	4	31	20,826	34,862	PF01722.17	BolA	70,8	7,80E-20	No_clan
TRINITY_DN7723_c0_g1_i2_2	7	26,9	35,865	48,047	PF00294.23	PfkB	239	6,50E-71	CL0118
TRINITY_DN10456_c0_g1_i4_1	3	13,9	30,049	24,019	PF04979.13	IPP-2	83,2	2,30E-23	No_clan

TRINITY_DN10811_c0_g1_i1_2	2	11,5	31,372	13,539	PF00412.21	LIM	45,8	4,90E-12	CL0167
TRINITY_DN10241_c0_g2_i1_1	2	9,5	39,871	18,054	PF00026.22	Asp	266,2	4,00E-79	CL0129
TRINITY_DN10843_c0_g2_i2_2	3	24,6	28,784	39,375					
TRINITY_DN888_c0_g1_i1_1	3	20,9	31,228	33,648	PF07986.11	TBCC	36,6	2,90E-09	CL0391
TRINITY_DN9357_c0_g1_i1_4	1	0,9	91,018	-2					
TRINITY_DN10551_c0_g1_i1_3	5	10,8	65,937	35,949	PF00479.21	G6PD_N	201,1	1,90E-59	CL0063
TRINITY_DN9412_c0_g1_i1_2	5	16,6	64,377	35,415	PF01301.18	Glyco_hydro_35	90,9	1,00E-25	CL0058
TRINITY_DN14016_c0_g2_i1_2	5	11	48,2	32,764	PF00174.18	Oxidored_molyb	193	2,70E-57	CL0072
TRINITY_DN5499_c0_g1_i1_3	2	12,1	24,71	33,331					
TRINITY_DN10701_c0_g1_i2_1	5	19,3	28,441	25,364	PF00333.19	Ribosomal_S5	52,1	4,40E-14	CL0196
TRINITY_DN5059_c0_g1_i1_5	6	25,2	23,456	32,761	PF00464.18	SHMT	277,2	1,60E-82	CL0061
TRINITY_DN6933_c0_g1_i1_2	12	35,3	60,056	111,2					
TRINITY_DN10774_c0_g1_i1_1	6	21,9	45,818	45,873	PF01398.20	JAB	50,4	1,80E-13	CL0366
TRINITY_DN10849_c0_g1_i2_2	1	3,8	22,85	6,6206					
TRINITY_DN10042_c0_g1_i2_2	4	12	48,25	27,652	PF00923.18	TAL_FSA	165	2,10E-48	CL0036
TRINITY_DN8175_c0_g1_i1_2	3	19,5	26,629	40,378					
TRINITY_DN11149_c0_g1_i1_3	9	28,5	49,126	71,339	PF01172.17	SBDS	102,3	1,10E-29	No_clan
TRINITY_DN14909_c0_g1_i1_3	9	28,5	47,187	66,458	PF10143.8	PhosphMutase	170,7	2,20E-50	No_clan
TRINITY_DN6906_c0_g1_i2_2	5	18,3	44,332	73,165	PF00793.19	DAHP_synth_1	203,9	2,00E-60	CL0036
TRINITY_DN4515_c0_g2_i1_2	3	58,9	7,7354	17,906	PF02136.19	NTF2	47,6	2,00E-12	CL0051
TRINITY_DN11230_c0_g2_i7_6	4	23,5	26,088	-2	PF03931.14	Skp1_POZ	106,5	5,20E-31	CL0033
TRINITY_DN19409_c0_g1_i1_3	4	34	15,738	29,348	PF00106.24	adh_short	107,3	6,20E-31	CL0063
TRINITY_DN10897_c0_g1_i1_1	6	24,1	38,981	44,916	PF00627.30	UBA	54,8	5,50E-15	CL0214
TRINITY_DN7208_c0_g1_i1_2	3	7,5	39,373	18,212	PF00462.23	Glutaredoxin	62,8	2,30E-17	CL0172
TRINITY_DN7184_c0_g1_i2_3	2	15	14,214	11,931	PF10890.7	Cyt_b-c1_8	124,9	1,20E-36	CL0429
TRINITY_DN6124_c0_g1_i2_1	5	14,5	51,774	34,079	PF07244.14	POTRA	22,3	0,00013	CL0191
TRINITY_DN17685_c0_g1_i1_2	6	35,5	17,529	9,6538	PF07650.16	KH_2	50	1,80E-13	CL0007
TRINITY_DN10323_c0_g3_i1_1	6	13,5	91,223	48,391	PF08323.10	Glyco_transf_5	221,3	1,40E-65	CL0113
TRINITY_DN9450_c0_g1_i1_2	4	14,4	35,71	28,395	PF04733.13	Coatomer_E	453,6	2,70E-136	CL0020
TRINITY_DN11814_c0_g1_i1_6	3	7,2	54,95	20,609	PF00291.24	PALP	160,9	4,20E-47	No_clan
TRINITY_DN22082_c0_g1_i1_3	2	28	10,235	22,31	PF00450.21	Peptidase_S10	103,3	1,90E-29	CL0028
TRINITY_DN7979_c0_g1_i2_2	5	21,6	39,885	31,437	PF01263.19	Aldose_epim	147,4	5,10E-43	CL0103
TRINITY_DN1283_c0_g1_i1_3	1	17	17,989	31,62	PF00188.25	CAP	74,6	1,20E-20	CL0659

TRINITY_DN9248_c0_g1_i2_3	7	23,3	42,893	48,555	PF08712.10	Nfu_N	107,3	2,80E-31	No_clan
TRINITY_DN10710_c2_g1_i2_2	6	25,6	44,109	42,554	PF00076.21	RRM_1	67,7	5,20E-19	CL0221
TRINITY_DN5831_c1_g1_i1_5	4	20,4	24,7	25,331	PF00501.27	AMP-binding	153,6	5,40E-45	CL0378
TRINITY_DN8425_c0_g1_i1_1	3	26,4	19,418	44,632	PF03179.14	V-ATPase_G	103,7	6,60E-30	CL0255
TRINITY_DN1080_c0_g1_i1_2	1	8,3	14,245	7,1787	PF00164.24	Ribosom_S12_S23	53,7	1,30E-14	CL0021
TRINITY_DN10249_c0_g1_i1_1	3	15,6	24,737	57,919	PF01370.20	Epimerase	28,9	6,70E-07	CL0063
TRINITY_DN2941_c0_g1_i1_2	2	43,7	7,0041	15,546	PF00920.20	ILVD_EDD	101,2	5,10E-29	No_clan
TRINITY_DN17262_c0_g1_i1_3	8	26,6	50,053	58,662	PF00675.19	Peptidase_M16	122,8	1,10E-35	CL0094
TRINITY_DN6331_c0_g1_i2_6	5	12,1	51,161	47,071	PF00169.28	PH	44,1	2,20E-11	CL0266
TRINITY_DN9436_c0_g1_i2_2	2	17,2	17,812	28,142	PF02320.15	UCR_hinge	80	1,00E-22	No_clan
TRINITY_DN11363_c0_g2_i3_3	6	10,7	69,176	46,879	PF00171.21	Aldedh	475,8	1,00E-142	CL0099
TRINITY_DN16910_c0_g1_i1_4	1	14,1	9,6335	11,844	PF02265.15	S1-P1_nuclease	28,2	1,40E-06	CL0368
TRINITY_DN791_c0_g1_i1_6	6	28,2	27,33	38,23	PF03949.14	Malic_M	225,1	8,00E-67	CL0063
TRINITY_DN12144_c0_g1_i1_4	4	22	31,565	39,253	PF03141.15	Methyltransf_29	378,4	4,60E-113	CL0063
TRINITY_DN3683_c0_g2_i2_1	4	10,5	55,997	32,378	PF04107.12	GCS2	306,8	1,40E-91	CL0286
TRINITY_DN10116_c1_g2_i1_2	3	10,9	46,923	22,058	PF02812.17	ELFV_dehydrog_N	130,9	2,40E-38	CL0603
TRINITY_DN4525_c0_g1_i1_2	5	24,7	24,768	25,478	PF00210.23	Ferritin	79,9	1,60E-22	CL0044
TRINITY_DN5136_c0_g1_i1_3	8	38,4	33,051	57,871	PF08240.11	ADH_N	114,6	1,80E-33	CL0296
TRINITY_DN7885_c0_g1_i8_1	8	21,1	57,623	69,048	PF00004.28	AAA	145,9	8,40E-43	CL0023
TRINITY_DN6908_c0_g1_i1_6	5	22,1	32,743	59,761	PF13774.5	Longin	41,9	7,00E-11	No_clan
TRINITY_DN6313_c0_g1_i1_1	6	31,1	24,38	16,492	PF00071.21	Ras	177,5	1,30E-52	CL0023
TRINITY_DN8703_c0_g1_i1_3	5	13,4	51,846	40,578	PF00571.27	CBS	30,7	3,00E-07	No_clan
TRINITY_DN8590_c0_g1_i1_2	2	10,9	25,907	19,84	PF04398.11	DUF538	114,3	3,50E-33	No_clan
TRINITY_DN8759_c0_g1_i1_1	6	12,6	59,097	41,093	PF00226.30	DnaJ	80,4	7,30E-23	CL0392
TRINITY_DN6356_c0_g1_i1_3	3	21	32,979	44,981	PF00400.31	WD40	23,8	5,40E-05	CL0186
TRINITY_DN9997_c0_g1_i1_5	5	10,7	61,42	30,629	PF00343.19	Phosphorylase	557,9	3,10E-167	CL0113
TRINITY_DN10922_c0_g1_i1_2	6	16,5	43,452	12,412	PF00071.21	Ras	220,2	1,00E-65	CL0023
TRINITY_DN18757_c0_g1_i1_1	2	54,4	7,4812	15,989					
TRINITY_DN11571_c4_g3_i5_2	11	31	57,619	66,049	PF00091.24	Tubulin	226,5	3,00E-67	CL0566
TRINITY_DN7455_c0_g1_i3_2	5	17	52,903	39,456	PF00587.24	tRNA-synt_2b	133,9	5,40E-39	CL0040
TRINITY_DN7736_c0_g1_i2_1	9	19,9	63,159	59,865	PF00988.21	CPSase_sm_chain	160,9	1,10E-47	CL0364
TRINITY_DN6430_c0_g1_i2_2	6	23,8	34,174	38,831	PF03405.13	FA_desaturase_2	381,8	2,00E-114	CL0044
TRINITY_DN11913_c0_g1_i1_2	4	17,2	27,829	26,603	PF03959.12	FSH1	164,4	2,70E-48	CL0028

TRINITY_DN11663_c2_g1_i1_3	6	19,7	56,422	64,374					
TRINITY_DN5983_c0_g1_i1_2	2	11,2	23,795	18,422					
TRINITY_DN8699_c1_g1_i2_2	1	8,5	19,058	10,41					
TRINITY_DN6592_c0_g1_i1_1	4	20,5	35,511	44,564	PF06552.11	TOM20_plant	320,4	3,20E-96	CL0020
TRINITY_DN10388_c0_g2_i6_4	11	21,3	80,684	21,927	PF00082.21	Peptidase_S8	162,2	1,50E-47	No_clan
TRINITY_DN11021_c0_g1_i1_2	3	11,9	40,987	31,886	PF13452.5	MaoC_dehydrat_N	24,3	2,50E-05	CL0050
TRINITY_DN3815_c0_g1_i1_1	7	17,8	58,542	58,248	PF00009.26	GTP_EFTU	87,6	7,00E-25	CL0023
TRINITY_DN10218_c0_g1_i2_2	7	14,5	70,207	77,178	PF05450.14	Nicastrin	29,2	5,50E-07	CL0035
TRINITY_DN6921_c0_g1_i1_1	3	14,5	43,617	100,06	PF08033.11	Sec23_BS	59,4	4,20E-16	No_clan
TRINITY_DN8720_c0_g1_i1_2	2	12,7	23,735	21,118	PF01918.20	Alba	46,8	1,80E-12	CL0441
TRINITY_DN8463_c0_g2_i1_5	10	18	81,28	99,551	PF00133.21	tRNA-synt_1	58,5	3,60E-16	CL0039
TRINITY_DN9325_c0_g2_i1_5	7	24,1	47,072	69,934	PF00501.27	AMP-binding	233,3	3,60E-69	CL0378
TRINITY_DN10162_c0_g1_i1_5	4	10,7	48,202	25,327	PF00466.19	Ribosomal_L10	66,8	1,30E-18	No_clan
TRINITY_DN9738_c1_g1_i1_3	1	11,5	12,541	91,401	PF00031.20	Cystatin	42,2	6,70E-11	CL0121
TRINITY_DN10335_c0_g1_i1_1	2	28,1	10,768	17,178					
TRINITY_DN4334_c0_g1_i1_3	4	18,9	26,975	48,291	PF01253.21	SUI1	72,2	3,50E-20	No_clan
TRINITY_DN11667_c0_g1_i5_1	10	38,6	40,185	7,5964	PF00009.26	GTP_EFTU	218,3	6,20E-65	CL0023
TRINITY_DN21463_c0_g1_i1_5	3	47	9,2121	23,295	PF00626.21	Gelsolin	45,8	4,00E-12	CL0092
TRINITY_DN9495_c0_g1_i1_2	3	5,9	79,633	20,641	PF01293.19	PEPCK_ATP	710,3	9,30E-214	CL0374
TRINITY_DN8648_c0_g1_i4_3	4	11,3	52,462	34,145	PF01070.17	FMN_dh	453,9	3,10E-136	CL0036
TRINITY_DN20196_c0_g1_i1_2	2	54,7	10,121	17,994					
TRINITY_DN369_c0_g2_i1_2	3	46,6	11,016	38,867					
TRINITY_DN4975_c0_g2_i1_1	3	20,1	24,498	22,138	PF02466.18	Tim17	44	2,10E-11	No_clan
TRINITY_DN10898_c0_g1_i1_3	2	10,8	29,076	15,085	PF05753.13	TRAP_beta	92,1	2,40E-26	CL0159
TRINITY_DN19644_c0_g1_i1_6	2	17,9	16,691	15,352	PF00251.19	Glyco_hydro_32N	68,3	7,60E-19	CL0143
TRINITY_DN10905_c1_g1_i1_1	4	16,2	37,894	37,123	PF00270.28	DEAD	53	3,30E-14	CL0023
TRINITY_DN11102_c1_g1_i1_1	2	23,1	9,9412	13,297					
TRINITY_DN8311_c0_g1_i1_6	5	22,3	30,519	36,105	PF07859.12	Abhydrolase_3	139	1,80E-40	CL0028
TRINITY_DN8932_c0_g2_i2_2	8	18,2	69,952	86,138	PF08492.11	SRP72	59,9	2,20E-16	No_clan
TRINITY_DN7024_c0_g1_i1_2	3	5,4	73,834	58,468	PF01602.19	Adaptin_N	383,7	1,20E-114	CL0020
TRINITY_DN5823_c0_g1_i1_2	3	13,8	34,292	20,258					
TRINITY_DN7700_c0_g1_i1_1	2	19,1	12,253	14,182					

TRINITY_DN5993_c0_g2_i1_6	3	35,1	12,194	94,618	PF00085.19	Thioredoxin	80,8	5,30E-23	CL0172
TRINITY_DN9585_c0_g1_i1_2	8	23,6	49,72	58,297	PF00561.19	Abhydrolase_1	100,2	1,30E-28	CL0028
TRINITY_DN10250_c0_g1_i1_4	2	11,3	25,193	87,929	PF01984.19	dsDNA_bind	104,6	3,20E-30	No_clan
TRINITY_DN11946_c0_g1_i1_6	4	19,3	32,902	33,593	PF02734.16	Dak2	146,4	6,90E-43	No_clan
TRINITY_DN6080_c0_g1_i1_2	3	17,7	39,334	22,515	PF00180.19	Iso_dh	418,2	2,40E-125	CL0270
TRINITY_DN7401_c0_g1_i1_3	6	12,7	75,921	47,403	PF12899.6	Glyco_hydro_100	721,5	2,70E-217	CL0059
TRINITY_DN2864_c0_g1_i1_4	3	37,6	10,376	20,246	PF00400.31	WD40	26,6	7,10E-06	CL0186
TRINITY_DN9953_c0_g1_i1_3	3	18,1	27,897	19,29	PF01217.19	Clat_adaptor_s	77,7	7,70E-22	CL0212
TRINITY_DN4450_c0_g2_i1_2	1	6,6	16,24	6,6363	PF00658.17	PABP	75,2	3,20E-21	No_clan
TRINITY_DN18876_c0_g1_i1_5	2	19,4	13,92	12,482	PF00483.22	NTP_transferase	112,5	2,20E-32	CL0110
TRINITY_DN10281_c0_g1_i1_1	3	13	25,361	20,639	PF00828.18	Ribosomal_L27A	75,5	4,90E-21	CL0588
TRINITY_DN7840_c0_g1_i1_3	3	25,9	13,347	18,591	PF00152.19	tRNA-synt_2	78,6	3,90E-22	CL0040
TRINITY_DN8316_c0_g1_i1_3	4	16,3	34,48	14,323	PF00687.20	Ribosomal_L1	148,9	1,40E-43	No_clan
TRINITY_DN15493_c0_g1_i1_5	2	42,7	9,7981	42,958	PF00637.19	Clathrin	36,3	4,20E-09	CL0020
TRINITY_DN8497_c0_g1_i1_2	6	18	55,379	38,461	PF01546.27	Peptidase_M20	113,5	1,00E-32	CL0035
TRINITY_DN9872_c0_g1_i2_5	2	10,2	22,146	13,835	PF01990.16	ATP-synt_F	99	1,40E-28	No_clan
TRINITY_DN5492_c0_g2_i1_3	5	11,2	99,204	43,413	PF02148.18	zf-UBP	56,8	1,90E-15	CL0229
TRINITY_DN10815_c0_g2_i1_3	4	17	23,941	26,248	PF00160.20	Pro_isomerase	151,4	2,20E-44	CL0475
TRINITY_DN9629_c0_g1_i1_1	2	7,6	50,62	268,21	PF05721.12	PhyH	196,4	6,20E-58	CL0029
TRINITY_DN9337_c0_g1_i3_1	5	19,1	40,463	34,986	PF00106.24	adh_short	93,8	8,40E-27	CL0063
TRINITY_DN2350_c0_g1_i1_3	2	25	7,4624	16,325					
TRINITY_DN4704_c0_g1_i1_2	5	45,2	20,249	23,162	PF00091.24	Tubulin	201,3	1,70E-59	CL0566
TRINITY_DN10796_c0_g1_i2_5	7	23,4	43,492	56,735	PF14938.5	SNAP	376,9	6,00E-113	CL0020
TRINITY_DN9670_c0_g1_i1_4	2	8,2	28,185	16,856	PF00085.19	Thioredoxin	80,9	5,10E-23	CL0172
TRINITY_DN2761_c0_g2_i1_2	4	24,8	23,473	29,435	PF00171.21	Aldedh	268,1	1,00E-79	CL0099
TRINITY_DN7182_c0_g1_i2_2	3	29,1	16,532	18,024	PF08267.11	Meth_synt_1	138,4	3,30E-40	CL0160
TRINITY_DN11525_c0_g1_i1_2	7	19,8	41,251	18,901	PF00153.26	Mito_carr	81,3	3,20E-23	No_clan
TRINITY_DN4779_c0_g2_i1_1	2	20,5	14,021	22,062	PF04674.11	Phi_1	125,4	2,40E-36	No_clan
TRINITY_DN11487_c0_g2_i1_1	3	10,4	34,032	18,751	PF08241.11	Methyltransf_11	72,5	3,20E-20	CL0063
TRINITY_DN11353_c0_g1_i2_3	5	19,6	34,881	33,057	PF01398.20	JAB	48	1,00E-12	CL0366
TRINITY_DN4833_c0_g1_i1_1	5	10,4	48,868	24,796	PF00282.18	Pyridoxal_deC	321,1	6,90E-96	CL0061
TRINITY_DN7188_c0_g2_i3_2	2	10	27,417	12,501	PF03647.12	Tmemb_14	62,8	3,70E-17	No_clan
TRINITY_DN10558_c0_g1_i2_4	3	14,1	41,813	19,999	PF00227.25	Proteasome	158,1	1,60E-46	CL0052

TRINITY_DN10992_c0_g1_i1_2	6	8,2	81,296	43,186	PF00749.20	tRNA-synt_1c	339,1	1,70E-101	CL0039
TRINITY_DN23494_c0_g1_i1_6	2	15,3	16,663	13,881	PF00332.17	Glyco_hydro_17	30,2	2,70E-07	CL0058
TRINITY_DN6209_c0_g1_i3_2	6	19,5	39,378	29,024	PF00244.19	14-3-3	322,2	1,40E-96	No_clan
TRINITY_DN1928_c0_g1_i2_3	3	20,5	15,081	16,524	PF04969.15	CS	50,1	4,00E-13	CL0190
TRINITY_DN22312_c0_g1_i1_4	3	39,8	11,493	46,576	PF05822.11	UMPH-1	86,8	1,50E-24	CL0137
TRINITY_DN137_c0_g1_i1_1	1	13,3	8,4372	6,9985					
TRINITY_DN7231_c0_g1_i1_1	3	16,5	25,179	24,564					
TRINITY_DN8793_c0_g1_i1_4	4	17,7	26,728	11,496	PF03737.14	RraA-like	141,6	2,00E-41	CL0364
TRINITY_DN16084_c0_g1_i1_4	2	16,9	9,2024	14,519	PF02518.25	HATPase_c	35,8	8,90E-09	CL0025
TRINITY_DN10831_c0_g1_i1_3	1	5,1	21,656	7,9585	PF16845.4	SQAPI	59,8	2,40E-16	CL0121
TRINITY_DN15011_c0_g1_i1_2	5	24,1	36,704	36,96	PF00133.21	tRNA-synt_1	40,1	1,30E-10	CL0039
TRINITY_DN11284_c0_g2_i1_3	5	25,1	31,053	41,302	PF03332.12	PMM	362,2	9,50E-109	CL0137
TRINITY_DN18948_c1_g1_i1_2	1	22,4	8,1612	40,602					
TRINITY_DN11157_c0_g2_i3_3	8	19,7	67,271	54,431	PF01474.15	DAHP_synth_2	650,7	7,90E-196	CL0036
TRINITY_DN2503_c0_g2_i1_1	4	16,5	40,061	43,505	PF00076.21	RRM_1	43,1	2,50E-11	CL0221
TRINITY_DN22430_c0_g1_i1_3	3	46,7	8,0531	19,609					
TRINITY_DN9526_c1_g1_i1_2	3	16,9	26,726	28,307	PF04716.13	ETC_C1_NDUFA5	96,7	4,80E-28	No_clan
TRINITY_DN11455_c0_g1_i6_2	4	15,7	43,069	27,4	PF01992.15	vATP-synt_AC39	370,3	9,80E-111	No_clan
TRINITY_DN10158_c0_g1_i1_1	3	11,8	22,634	22,244	PF01124.17	MAPEG	69	3,20E-19	No_clan
TRINITY_DN3458_c0_g1_i1_4	2	40,4	9,9202	17,705	PF01182.19	Glucosamine_iso	82,8	2,90E-23	CL0246
TRINITY_DN11286_c0_g1_i3_2	5	13,6	53,429	30,582	PF00390.18	malic	200,2	2,20E-59	CL0603
TRINITY_DN5958_c0_g2_i1_1	1	18,3	13,281	13,026					
TRINITY_DN9297_c0_g3_i2_1	3	5,6	53,021	16,886					
TRINITY_DN5161_c0_g2_i1_2	5	17,5	45,105	48,526	PF02861.19	Clp_N	57,1	1,30E-15	No_clan
TRINITY_DN11263_c0_g1_i1_3	5	7,7	75,288	30,004	PF03463.14	eRF1_1	70	1,70E-19	No_clan
TRINITY_DN2170_c0_g1_i1_5	4	42,1	12,892	38,311	PF00637.19	Clathrin	44,4	1,40E-11	CL0020
TRINITY_DN8027_c0_g1_i1_1	3	14,7	49,503	23,369	PF00790.18	VHS	117,2	4,40E-34	CL0009
TRINITY_DN10305_c0_g1_i5_3	4	13,7	50,487	43,366	PF03647.12	Tmemb_14	41,7	1,30E-10	No_clan
TRINITY_DN7619_c0_g2_i1_3	7	26,4	40,599	48,9	PF01014.17	Uricase	64	1,60E-17	CL0334
TRINITY_DN10995_c0_g2_i4_3	5	15,1	35,702	32,939	PF16491.4	Peptidase_M48_N	27,9	1,70E-06	No_clan
TRINITY_DN10905_c0_g1_i1_4	6	31,5	29,675	37,688	PF00270.28	DEAD	56,1	3,60E-15	CL0023
TRINITY_DN10393_c0_g1_i1_2	5	14,4	38,118	192,75	PF13462.5	Thioredoxin_4	23,5	4,60E-05	CL0172
TRINITY_DN13635_c0_g1_i3_1	4	9,6	43,487	25,186	PF00152.19	tRNA-synt_2	207,2	2,90E-61	CL0040

TRINITY_DN9622_c1_g3_i1_2	1	18,5	11,778	16,766	PF05498.10	RALF	32,1	1,40E-07	No_clan
TRINITY_DN10585_c0_g2_i1_2	3	16,3	14,142	204,93					
TRINITY_DN7164_c0_g1_i2_1	6	19,4	49,582	45,378	PF00069.24	Pkinase	237,2	1,80E-70	CL0016
TRINITY_DN9538_c0_g1_i1_2	5	7,9	72,807	34,968	PF05577.11	Peptidase_S28	280,4	2,10E-83	CL0028
TRINITY_DN9261_c0_g1_i2_1	10	16,2	91,019	58,651	PF02225.21	PA	42,6	4,60E-11	CL0364
TRINITY_DN3879_c0_g1_i1_5	5	65,1	9,4597	15,046	PF01370.20	Epimerase	56,5	2,50E-15	CL0063
TRINITY_DN74_c0_g1_i1_5	2	10,1	32,792	15,575	PF00025.20	Arf	217,3	9,00E-65	CL0023
TRINITY_DN5513_c0_g1_i1_2	3	9,2	49,73	31,86	PF17284.1	Spermine_synt_N	84,2	4,00E-24	No_clan
TRINITY_DN7914_c0_g2_i3_5	2	16,9	16,334	12,753					
TRINITY_DN1457_c0_g1_i1_1	3	24	15,319	52,76	PF00076.21	RRM_1	51,7	5,20E-14	CL0221
TRINITY_DN14031_c0_g1_i1_2	7	47,8	20,095	55,786					
TRINITY_DN11004_c0_g1_i4_1	3	9,2	43,847	47,22	PF00083.23	Sugar_tr	267	2,80E-79	CL0015
TRINITY_DN239_c0_g1_i1_4	3	10,5	44,052	19,707	PF00970.23	FAD_binding_6	85,8	1,90E-24	CL0076
TRINITY_DN6479_c0_g2_i1_3	3	14,9	21,96	18,5					
TRINITY_DN9536_c0_g1_i1_3	4	7,3	67,855	24,43	PF01399.26	PCI	71,5	6,50E-20	CL0123
TRINITY_DN8870_c0_g1_i1_2	1	19,1	14,934	11,731					
TRINITY_DN13262_c0_g1_i1_3	4	19,4	39,91	32,728	PF01979.19	Amidohydro_1	147	7,90E-43	CL0034
TRINITY_DN11425_c1_g1_i2_1	4	14,9	35,908	38,021	PF03665.12	UPF0172	191,6	1,30E-56	CL0366
TRINITY_DN11659_c1_g1_i1_5	4	10	67,222	31,444	PF00171.21	Aldedh	601,1	1,00E-180	CL0099
TRINITY_DN15964_c0_g1_i1_3	1	13,7	10,199	17,019	PF00240.22	ubiquitin	72	2,30E-20	CL0072
TRINITY_DN5268_c0_g1_i1_2	1	4,6	41,102	7,2539	PF03151.15	TPT	379,7	8,70E-114	CL0184
TRINITY_DN20307_c0_g1_i1_4	2	29,5	8,5207	14,018	PF13847.5	Methyltransf_31	34,2	1,90E-08	CL0063
TRINITY_DN2136_c0_g2_i1_2	4	11,6	40,397	32,1	PF01975.16	SurE	178,6	1,00E-52	No_clan
TRINITY_DN10948_c0_g1_i6_4	7	15,7	64,679	41,979	PF01399.26	PCI	70,8	1,10E-19	CL0123
TRINITY_DN7010_c0_g2_i1_5	5	16,6	35,436	19,082	PF00297.21	Ribosomal_L3	429,2	1,20E-128	CL0575
TRINITY_DN18488_c0_g1_i1_2	2	23,8	13,976	190,19	PF06201.12	PITH	45,6	7,60E-12	CL0202
TRINITY_DN10697_c0_g1_i5_1	5	24,4	34,964	66,423	PF13561.5	adh_short_C2	195,8	7,30E-58	CL0063
TRINITY_DN8284_c0_g1_i1_2	5	17,2	41,616	184,67	PF02668.15	TauD	121,8	4,00E-35	CL0029
TRINITY_DN6841_c0_g1_i2_2	7	22	49,101	53,592	PF00218.20	IGPS	267,1	1,10E-79	CL0036
TRINITY_DN8688_c0_g2_i1_5	3	19,7	23,744	29,413					
TRINITY_DN10771_c0_g1_i1_5	5	10,8	48,193	37,725	PF13432.5	TPR_16	22,6	0,00012	CL0020
TRINITY_DN8280_c0_g2_i1_2	3	10,1	34,383	20,578	PF02230.15	Abhydrolase_2	163,5	5,50E-48	CL0028
TRINITY_DN2036_c0_g2_i1_1	2	11,3	28,397	20,232	PF07977.12	FabA	118,7	1,30E-34	CL0050

TRINITY_DN8545_c0_g2_i1_1	6	12,6	65,795	40,426	PF02881.18	SRP54_N	56,7	2,00E-15	No_clan
TRINITY_DN9929_c0_g2_i1_1	4	11,7	40,256	26,976	PF14560.5	Ubiquitin_2	96,3	9,90E-28	CL0072
TRINITY_DN16390_c0_g1_i1_1	2	36,2	8,9881	15,835	PF00400.31	WD40	20,4	0,00062	CL0186
TRINITY_DN9968_c0_g1_i3_3	10	21,4	69,584	62,655	PF13905.5	Thioredoxin_8	98,5	2,00E-28	CL0172
TRINITY_DN6363_c0_g1_i2_3	3	14,2	26,108	22,943	PF00215.23	OMPdecase	206	5,40E-61	CL0036
TRINITY_DN10584_c0_g1_i2_3	2	11,4	23,923	195,26	PF14368.5	LTP_2	54,4	1,00E-14	CL0482
TRINITY_DN10580_c0_g1_i1_3	3	17	46,112	38,85	PF02446.16	Glyco_hydro_77	137,7	4,90E-40	CL0058
TRINITY_DN320_c0_g1_i1_6	6	41,9	22,332	35,031	PF13246.5	Cation_ATPase	66,7	1,30E-18	CL0137
TRINITY_DN4506_c0_g1_i1_6	4	14,5	45,065	68,512	PF01070.17	FMN_dh	461,8	1,20E-138	CL0036
TRINITY_DN11518_c0_g3_i1_3	5	35,6	24,744	44,775					
TRINITY_DN8574_c0_g2_i2_3	4	33,3	28,495	75,242	PF07992.13	Pyr_redox_2	97,4	8,10E-28	CL0063
TRINITY_DN7917_c0_g1_i3_2	2	6,9	35,934	16,152	PF00076.21	RRM_1	59,9	1,40E-16	CL0221
TRINITY_DN11331_c0_g10_i5_1	7	44,9	20,014	20,077					
TRINITY_DN305_c1_g1_i1_2	3	22,6	19,289	24,969	PF03081.14	Exo70	160,9	4,20E-47	CL0295
TRINITY_DN10976_c0_g1_i2_2	4	9,2	59,14	26,695	PF00571.27	CBS	16,7	0,0071	No_clan
TRINITY_DN4215_c0_g2_i1_1	1	10,7	8,5989	-2					
TRINITY_DN11518_c0_g1_i3_1	5	14,6	53,531	35,687	PF00587.24	tRNA-synt_2b	36,7	3,70E-09	CL0040
TRINITY_DN8989_c0_g2_i2_3	1	5,1	20,026	6,4894					
TRINITY_DN18517_c0_g1_i1_6	2	26,9	11,46	21,792	PF00076.21	RRM_1	69,1	1,90E-19	CL0221
TRINITY_DN3918_c0_g1_i1_3	6	37,9	28,451	45,607	PF01118.23	Semialdhyde_dh	106,5	1,10E-30	CL0063
TRINITY_DN8387_c0_g1_i1_3	6	17,5	52,645	42,869	PF00251.19	Glyco_hydro_32N	128,4	3,90E-37	CL0143
TRINITY_DN8291_c1_g1_i2_1	2	9	17,923	13,448	PF03208.18	PRA1	147,7	1,50E-43	No_clan
TRINITY_DN4038_c0_g2_i1_1	6	14,6	65,25	47,808	PF01487.14	DHquinase_I	237,7	1,80E-70	CL0036
TRINITY_DN8117_c0_g1_i1_1	5	19,3	36,054	29,112	PF01412.17	ArfGap	141,4	1,10E-41	No_clan
TRINITY_DN11962_c0_g1_i1_4	2	5,7	52,434	14,486	PF00781.23	DAGK_cat	27,2	2,20E-06	CL0240
TRINITY_DN10349_c0_g1_i2_2	5	13,4	62,425	38,141	PF09440.9	eIF3_N	167,5	1,70E-49	No_clan
TRINITY_DN4294_c0_g2_i1_3	3	12,9	27,444	26,983	PF01915.21	Glyco_hydro_3_C	136,9	7,80E-40	No_clan
TRINITY_DN10817_c0_g2_i5_3	7	9,1	136,73	44,354	PF00862.18	Sucrose_synth	41,8	4,20E-11	CL0113
TRINITY_DN15272_c0_g1_i1_6	3	20,8	15,977	18,015					
TRINITY_DN2207_c0_g1_i1_5	3	17,6	18,526	18,944	PF15511.5	CENP-T_C	32,8	5,50E-08	CL0012
TRINITY_DN10776_c0_g2_i2_1	3	8,3	55,387	19,405	PF00201.17	UDPGT	108,1	4,60E-31	CL0113
TRINITY_DN9409_c0_g1_i1_2	5	25	24,459	41,181	PF14852.5	Fis1_TPR_N	43,5	1,60E-11	CL0020
TRINITY_DN4376_c0_g1_i3_3	4	8,3	63,792	34,409	PF01077.21	NIR_SIR	175,2	6,40E-52	No_clan

TRINITY_DN13346_c0_g1_i1_4	5	32,6	24,409	36,282	PF08534.9	Redoxin	85,3	3,00E-24	CL0172
TRINITY_DN19634_c0_g1_i1_3	1	8,6	13,842	6,6679	PF00179.25	UQ_con	162,8	3,30E-48	CL0208
TRINITY_DN8342_c0_g2_i2_2	2	6,3	38,118	14,936	PF05648.13	PEX11	167,7	2,40E-49	No_clan
TRINITY_DN8274_c0_g2_i2_2	4	20,5	28,854	71,179	PF00795.21	CN_hydrolase	152,7	1,10E-44	No_clan
TRINITY_DN11230_c0_g2_i11_6	5	27,7	29,99	17,531	PF03931.14	Skp1_POZ	106,4	5,50E-31	CL0033
TRINITY_DN6850_c0_g1_i1_2	4	12,4	38,139	24,187					
TRINITY_DN4513_c0_g1_i1_3	4	24	29,126	25,47	PF02359.17	CDC48_N	81,9	2,60E-23	CL0332
TRINITY_DN11374_c0_g1_i7_3	3	13,6	41,12	19,782	PF04199.12	Cyclase	76,8	1,60E-21	CL0364
TRINITY_DN11011_c0_g1_i3_3	3	17,3	30,102	24,54	PF01323.19	DSBA	118,6	2,70E-34	CL0172
TRINITY_DN8107_c0_g1_i1_3	4	30,2	20,825	31,768	PF00082.21	Peptidase_S8	34,4	1,30E-08	No_clan
TRINITY_DN9485_c0_g1_i2_4	1	2,5	44,059	6,4388					
TRINITY_DN7556_c0_g1_i1_1	6	26	31,646	48,329	PF00071.21	Ras	153,5	3,20E-45	CL0023
TRINITY_DN14011_c0_g1_i1_1	2	31,6	11,03	23,993					
TRINITY_DN8957_c0_g1_i1_2	3	9,5	37,307	17,736	PF01873.16	eIF-5_eIF-2B	125,3	9,60E-37	No_clan
TRINITY_DN11390_c1_g1_i2_2	1	15,4	12,158	6,994	PF00137.20	ATP-synt_C	39,9	3,60E-10	No_clan
TRINITY_DN17748_c0_g1_i1_5	1	14,5	7,9647	6,7341	PF13855.5	LRR_8	35	8,00E-09	CL0022
TRINITY_DN6342_c0_g1_i2_3	6	20,6	49,677	54,998	PF00155.20	Aminotran_1_2	147,2	6,30E-43	CL0061
TRINITY_DN11664_c0_g1_i2_3	6	8,1	102,77	48,367	PF04734.12	Ceramidase_alk	783,8	6,10E-236	No_clan
TRINITY_DN9943_c0_g1_i2_6	7	13,3	87,193	46,649	PF06480.14	FtsH_ext	51	1,40E-13	No_clan
TRINITY_DN13988_c0_g1_i1_6	5	17,3	40,902	34,18					
TRINITY_DN19538_c0_g1_i1_4	2	10,1	27,482	96,441					
TRINITY_DN10766_c0_g1_i8_2	3	7,9	48,452	38,272	PF02990.15	EMP70	385,3	4,00E-115	No_clan
TRINITY_DN11385_c0_g1_i2_1	4	26,8	24,209	26,359					
TRINITY_DN10112_c0_g1_i1_1	2	10,7	30,048	15,739	PF04573.11	SPC22	171,4	1,00E-50	No_clan
TRINITY_DN7707_c0_g1_i1_4	5	31,8	25,149	46,749	PF01717.17	Meth_synt_2	361,1	5,10E-108	CL0160
TRINITY_DN15157_c0_g1_i1_5	1	27,5	8,8108	7,8433					
TRINITY_DN1898_c0_g1_i1_4	2	32,1	12,463	15,876	PF00282.18	Pyridoxal_deC	61,4	5,50E-17	CL0061
TRINITY_DN12752_c0_g1_i1_1	2	25,5	10,374	12,462	PF05879.11	RHD3	94,6	4,00E-27	CL0023
TRINITY_DN10808_c0_g1_i2_1	9	23	63,624	59,588	PF00365.19	PFK	205,5	9,80E-61	CL0240
TRINITY_DN10486_c0_g1_i1_1	6	15,3	65,24	39,758	PF01417.19	ENTH	143,4	3,30E-42	CL0009
TRINITY_DN1527_c0_g1_i1_2	2	13,9	25,396	34,92	PF16363.4	GDP_Man_Dehyd	116,6	1,40E-33	CL0063
TRINITY_DN19189_c0_g1_i1_3	4	42	15,835	15,95	PF00198.22	2-oxoacid_dh	39	5,50E-10	CL0149
TRINITY_DN8363_c0_g1_i1_2	2	7,6	36,896	12,564	PF03949.14	Malic_M	335,2	2,00E-100	CL0063

TRINITY_DN11604_c0_g1_i7_2	6	22,3	36,098	323,31	PF08241.11	Methyltransf_11	40,2	3,70E-10	CL0063
TRINITY_DN4772_c0_g1_i1_2	5	15,5	44,9	33,104	PF02817.16	E3_binding	30,5	3,10E-07	No_clan
TRINITY_DN8086_c0_g1_i1_2	4	29,4	23,707	29,132	PF13669.5	Glyoxalase_4	34,9	1,40E-08	CL0104
TRINITY_DN3945_c0_g1_i1_3	3	13,6	26,508	21,035	PF00639.20	Rotamase	80,6	1,20E-22	CL0487
TRINITY_DN9766_c0_g2_i1_3	7	22,8	42,574	25,327	PF00132.23	Hexapep	20,3	0,0003	CL0536
TRINITY_DN8049_c0_g1_i1_2	4	12,6	57,73	26,665	PF02889.15	Sec63	90,8	7,10E-26	No_clan
TRINITY_DN11285_c0_g1_i5_6	2	11,2	15,546	12,887	PF02798.19	GST_N	69,3	2,50E-19	CL0172
TRINITY_DN9993_c0_g1_i4_4	2	22,7	14,627	9,9569					
TRINITY_DN18979_c0_g1_i1_4	2	35,6	9,3973	15,396					
TRINITY_DN9241_c0_g1_i1_2	3	6,4	66,317	27,802	PF04499.14	SAPS	28,4	6,60E-07	No_clan
TRINITY_DN17053_c0_g1_i1_3	2	25,8	9,9203	14,439					
TRINITY_DN8570_c0_g1_i2_1	3	11,9	33,182	21,408	PF02230.15	Abhydrolase_2	137,1	6,90E-40	CL0028
TRINITY_DN11109_c0_g2_i3_1	7	11,2	95,888	30,362	PF02990.15	EMP70	596,9	3,00E-179	No_clan
TRINITY_DN23174_c0_g1_i1_1	1	13,5	9,5238	6,496					
TRINITY_DN11127_c0_g1_i1_3	2	5,2	56,177	15,785	PF00085.19	Thioredoxin	89,4	1,10E-25	CL0172
TRINITY_DN3682_c0_g1_i1_3	1	4,2	28,275	7,1967	PF00885.18	DMRL_synthase	167,5	1,40E-49	No_clan
TRINITY_DN11049_c0_g1_i2_6	4	6,2	65,936	23,734	PF01979.19	Amidohydro_1	98,7	3,80E-28	CL0034
TRINITY_DN4610_c0_g1_i1_3	4	26,4	23,102	24,03					
TRINITY_DN3669_c0_g2_i1_1	3	27	13,142	6,3399	PF00153.26	Mito_carr	52,8	2,60E-14	No_clan
TRINITY_DN374_c0_g2_i1_2	4	19,8	21,183	27,397	PF00224.20	PK	133	1,10E-38	CL0151
TRINITY_DN1993_c0_g1_i1_1	3	35,2	10,036	22,231					
TRINITY_DN11635_c2_g1_i3_2	8	24	41,57	12,807	PF00248.20	Aldo_ket_red	241,6	9,10E-72	No_clan
TRINITY_DN5082_c0_g1_i1_6	5	33,5	18,915	62,155	PF00085.19	Thioredoxin	30,1	3,30E-07	CL0172
TRINITY_DN8123_c0_g1_i1_1	3	16,2	28,701	60,245	PF04398.11	DUF538	92,5	2,00E-26	No_clan
TRINITY_DN10102_c0_g1_i2_4	4	12,3	50,255	31,306	PF01363.20	FYVE	51	1,10E-13	CL0390
TRINITY_DN15522_c0_g1_i1_1	2	30,9	8,8301	16,285	PF00076.21	RRM_1	50,5	1,20E-13	CL0221
TRINITY_DN5853_c0_g1_i2_1	4	13,4	60,838	49,359	PF06552.11	TOM20_plant	25,9	6,70E-06	CL0020
TRINITY_DN4080_c1_g1_i1_3	5	26,3	33,169	39,15	PF05633.10	BPS1	399	2,00E-119	CL0133
TRINITY_DN2512_c0_g1_i1_1	3	16,5	22,125	18,507	PF00206.19	Lyase_1	111,2	5,70E-32	No_clan
TRINITY_DN8982_c0_g1_i3_1	3	11	39,391	27,611	PF00156.26	Pribosyltran	36	4,20E-09	CL0533
TRINITY_DN5937_c0_g1_i1_6	4	8,9	82,85	40,288	PF13620.5	CarboxypepD_reg	35,5	8,40E-09	CL0287
TRINITY_DN10930_c0_g2_i2_1	3	12,8	30,108	22,123	PF05042.12	Caleosin	266,1	1,20E-79	CL0220
TRINITY_DN13030_c0_g1_i1_6	2	11,3	24,678	13,631					

TRINITY_DN5505_c0_g1_i1_3	6	10,9	70,215	47,059	PF01344.24	Kelch_1	40,8	1,10E-10	CL0186
TRINITY_DN11234_c0_g1_i2_1	2	10,4	22,256	7,7385	PF01929.16	Ribosomal_L14e	89,8	1,10E-25	CL0107
TRINITY_DN3811_c0_g2_i1_6	3	19,2	21,527	106,71	PF01491.15	Frataxin_Cyay	121,2	1,70E-35	No_clan
TRINITY_DN12438_c0_g1_i2_2	1	3,9	26,272	6,5225	PF04573.11	SPC22	180,6	1,60E-53	No_clan
TRINITY_DN21231_c0_g1_i1_4	2	16,8	15,027	17,742					
TRINITY_DN22880_c0_g1_i1_1	1	26,3	10,784	11,759	PF01643.16	Acyl-ACP_TE	48,1	8,30E-13	CL0050
TRINITY_DN209_c0_g1_i1_6	1	5,3	34,272	-2	PF10184.8	DUF2358	129,4	6,30E-38	CL0051
TRINITY_DN11070_c0_g1_i6_2	4	8,3	71,849	33,196	PF05602.11	CLPTM1	507,4	3,20E-152	No_clan
TRINITY_DN6751_c0_g1_i1_5	1	12,7	10,779	12,741					
TRINITY_DN9669_c0_g1_i1_5	2	21,5	16,795	14,393					
TRINITY_DN6123_c0_g1_i1_4	5	9,4	74,385	30,464	PF00069.24	Pkinase	244	1,50E-72	CL0016
TRINITY_DN9646_c0_g1_i1_2	6	10,7	82,229	52,492	PF07774.12	DUF1620	224,6	9,90E-67	No_clan
TRINITY_DN3063_c0_g2_i1_5	3	8,2	51,022	20,89	PF08241.11	Methyltransf_11	70,4	1,40E-19	CL0063
TRINITY_DN8427_c0_g1_i1_3	1	7	23,186	8,0316	PF00230.19	MIP	183,8	3,60E-54	No_clan
TRINITY_DN10246_c1_g1_i1_3	2	24,4	28,849	80,208	PF00111.26	Fer2	64,3	7,10E-18	CL0486
TRINITY_DN9816_c0_g1_i2_1	3	15,1	30,721	24,07	PF00227.25	Proteasome	145,7	1,10E-42	CL0052
TRINITY_DN6842_c0_g1_i1_5	3	52,2	9,9092	20,387	PF00248.20	Aldo_ket_red	45,4	5,20E-12	No_clan
TRINITY_DN4755_c0_g2_i1_6	4	26,9	14,823	24,147	PF06212.11	GRIM-19	73,7	1,20E-20	No_clan
TRINITY_DN8066_c0_g1_i1_3	7	35,2	36,486	18,097	PF00091.24	Tubulin	235,6	5,10E-70	CL0566
TRINITY_DN7303_c0_g1_i1_3	2	8,6	20,844	11,644					
TRINITY_DN9503_c0_g1_i1_2	5	19,2	46,367	35,274	PF07714.16	Pkinase_Tyr	150,9	3,50E-44	CL0016
TRINITY_DN4985_c0_g1_i1_3	2	14,7	24,478	15,35	PF01641.17	SelR	128,3	1,40E-37	CL0080
TRINITY_DN11329_c0_g1_i2_1	2	10,6	35,194	14,314	PF02771.15	Acyl-CoA_dh_N	85,4	4,00E-24	CL0544
TRINITY_DN4045_c0_g1_i1_1	4	17,5	35,773	15,103	PF01294.17	Ribosomal_L13e	257,9	4,60E-77	No_clan
TRINITY_DN11005_c0_g1_i2_2	6	16,7	60,868	43,177	PF02854.18	MIF4G	104	7,90E-30	CL0020
TRINITY_DN6033_c0_g1_i1_3	4	20,5	33,846	29,922	PF08543.11	Phos_pyr_kin	53,3	2,20E-14	CL0118
TRINITY_DN10177_c0_g1_i1_1	3	16,1	24,583	20,957					
TRINITY_DN2451_c0_g1_i1_2	7	22,8	50,397	45,591	PF00326.20	Peptidase_S9	234,8	6,60E-70	CL0028
TRINITY_DN2230_c0_g2_i1_1	6	16,5	51,691	42,529	PF01634.17	HisG	124	4,90E-36	CL0177
TRINITY_DN6871_c0_g1_i1_3	3	13,7	22,789	11,352	PF04718.14	ATP-synt_G	79,5	2,50E-22	No_clan
TRINITY_DN12604_c0_g1_i1_3	8	15,7	73,874	56,039	PF00686.18	CBM_20	78	3,40E-22	CL0369
TRINITY_DN11543_c0_g1_i1_3	1	1	82,212	-2					
TRINITY_DN8511_c0_g2_i1_6	4	14,1	40,919	30,473	PF01268.18	FTHFS	467,7	3,50E-140	CL0023

TRINITY_DN7492_c0_g1_i1_6	1	5,6	22,062	6,6914	PF01249.17	Ribosomal_S21e	121,2	1,30E-35	No_clan
TRINITY_DN10983_c0_g1_i3_5	3	10,6	50,183	18,401					
TRINITY_DN20990_c0_g1_i1_1	1	12	11,571	6,6114					
TRINITY_DN7067_c0_g1_i1_3	4	22	43,155	36,887	PF00106.24	adh_short	93,7	8,80E-27	CL0063
TRINITY_DN10272_c0_g1_i2_4	1	8,9	14,523	8,0681					
TRINITY_DN7028_c0_g1_i1_3	4	6,3	78,284	25,536	PF00933.20	Glyco_hydro_3	234,5	1,80E-69	CL0058
TRINITY_DN9822_c0_g1_i2_3	6	24	25,853	35,594	PF01145.24	Band_7	93	2,00E-26	CL0433
TRINITY_DN10973_c0_g1_i2_3	4	15,3	41,856	27,972	PF08355.11	EF_assoc_1	63,2	1,20E-17	No_clan
TRINITY_DN8002_c0_g1_i1_2	3	8,3	39,129	27,107	PF02338.18	OTU	116,6	9,30E-34	CL0125
TRINITY_DN10262_c0_g2_i1_1	1	3,6	42,066	9,7138	PF00574.22	CLP_protease	266,1	1,40E-79	CL0127
TRINITY_DN5679_c0_g1_i1_2	4	9,3	61,322	40,314					
TRINITY_DN728_c0_g1_i2_3	3	23,3	17,462	27,782					
TRINITY_DN11853_c0_g1_i1_1	5	20,9	28,269	28,743					
TRINITY_DN11868_c0_g1_i1_5	4	16,6	35,753	27,817	PF02786.16	CPSase_L_D2	119	1,80E-34	CL0179
TRINITY_DN10119_c0_g1_i1_1	5	7,5	90,673	52,999					
TRINITY_DN2584_c0_g2_i1_3	1	8,6	16,893	11,936	PF02672.14	CP12	89,6	1,50E-25	No_clan
TRINITY_DN9619_c0_g2_i2_2	4	10,6	51,883	26,857	PF01233.18	NMT	261,2	2,80E-78	CL0257
TRINITY_DN10243_c0_g1_i1_3	4	12,8	52,65	30,242	PF01150.16	GDA1_CD39	348,9	3,10E-104	CL0108
TRINITY_DN17816_c0_g1_i1_6	1	6,1	16,23	-2					
TRINITY_DN23502_c0_g1_i1_3	1	20	8,8499	8,0362					
TRINITY_DN4242_c0_g1_i3_4	3	46,1	12,215	242,6					
TRINITY_DN11128_c0_g1_i1_3	6	25,5	44,673	43,099	PF08240.11	ADH_N	33,6	2,50E-08	CL0296
TRINITY_DN6438_c0_g3_i1_3	5	22,3	31,573	46,963	PF13561.5	adh_short_C2	209,7	4,20E-62	CL0063
TRINITY_DN8591_c0_g1_i2_5	5	11,2	55,269	34,198	PF01633.19	Choline_kinase	238,9	4,10E-71	CL0016
TRINITY_DN13303_c0_g1_i1_6	3	21,6	14,142	12,847	PF00118.23	Cpn60_TCP1	71,4	5,40E-20	No_clan
TRINITY_DN11162_c0_g1_i3_4	5	21,7	32,722	37,309	PF13774.5	Longin	86,6	8,00E-25	No_clan
TRINITY_DN17711_c0_g1_i1_5	4	33,5	17,773	24,332					
TRINITY_DN7181_c0_g1_i1_6	6	22,7	28,807	13,15	PF00189.19	Ribosomal_S3_C	86,9	9,40E-25	No_clan
TRINITY_DN8712_c0_g1_i1_2	5	18,7	43,043	36,175	PF01678.18	DAP_epimerase	124,7	2,10E-36	CL0288
TRINITY_DN11271_c1_g2_i1_1	7	69,1	16,588	179,98	PF00240.22	ubiquitin	95,2	1,30E-27	CL0072
TRINITY_DN10739_c0_g1_i1_3	9	15,2	78,177	24,576	PF00012.19	HSP70	886	9,30E-267	CL0108
TRINITY_DN11930_c0_g1_i1_6	2	35,4	9,045	16,399					
TRINITY_DN19914_c0_g1_i1_2	5	17,1	37,313	36,76	PF00709.20	Adenylsucc_synt	351	8,30E-105	CL0023

TRINITY_DN9037_c0_g1_i2_3	5	12,4	72,571	44,321	PF13850.5	ERGIC_N	83,1	1,20E-23	No_clan
TRINITY_DN9789_c0_g1_i1_2	2	2,8	66,749	12,512	PF05631.13	MFS_5	634,4	3,80E-191	CL0015
TRINITY_DN11534_c1_g1_i2_2	3	6,5	63,617	21,463	PF10508.8	Proteasom_PSMB	55,1	4,20E-15	CL0020
TRINITY_DN5090_c0_g1_i1_1	3	44,5	16,959	24,329	PF07983.12	X8	86,6	1,20E-24	No_clan
TRINITY_DN11564_c1_g1_i1_3	4	8,3	58,971	27,231	PF03690.12	UPF0160	444,1	3,40E-133	No_clan
TRINITY_DN13530_c0_g1_i1_2	3	40,6	11,462	37,718	PF00122.19	E1-E2_ATPase	76,8	1,40E-21	No_clan
TRINITY_DN11513_c0_g1_i18_2	3	12	25,298	46,527	PF00043.24	GST_C	30,4	3,10E-07	CL0497
TRINITY_DN9031_c0_g2_i2_1	2	6,1	39,862	16,177	PF03127.13	GAT	54,5	9,90E-15	No_clan
TRINITY_DN9718_c0_g1_i1_1	4	17,9	43,149	100,07	PF02893.19	GRAM	97,9	2,80E-28	CL0266
TRINITY_DN7063_c0_g1_i1_2	9	25	61,96	62,843	PF02696.13	UPF0061	438,9	2,00E-131	No_clan
TRINITY_DN22484_c0_g1_i1_1	3	44,9	8,4181	20,009					
TRINITY_DN10475_c1_g1_i1_4	5	19,7	31,813	23,631	PF00071.21	Ras	204,6	6,10E-61	CL0023
TRINITY_DN11134_c0_g1_i2_1	5	10,7	61,388	44,24	PF02786.16	CPSase_L_D2	128,4	2,30E-37	CL0179
TRINITY_DN7509_c0_g1_i1_1	1	4,4	30,317	7,1393	PF06814.12	Lung_7-TM_R	84,6	6,60E-24	CL0192
TRINITY_DN15062_c0_g1_i1_1	4	31,6	17,621	16,413	PF00733.20	Asn_synthase	38,4	1,10E-09	CL0039
TRINITY_DN22190_c0_g1_i1_5	2	24,1	9,0371	47,233					
TRINITY_DN8143_c0_g1_i3_2	4	6,7	102,17	27,129	PF01636.22	APH	155,6	1,80E-45	CL0016
TRINITY_DN8488_c0_g1_i1_3	5	10,9	65,374	38,239	PF02878.15	PGM_PMM_I	25,6	7,70E-06	No_clan
TRINITY_DN7081_c0_g2_i1_1	3	25,2	17,41	18,439	PF02775.20	TPP_enzyme_C	38,7	7,70E-10	CL0254
TRINITY_DN5728_c0_g1_i1_3	4	10,7	57,653	26,111					
TRINITY_DN10017_c0_g1_i1_5	5	13,2	43,471	35,88	PF00300.21	His_Phos_1	25,8	7,00E-06	CL0071
TRINITY_DN10253_c0_g1_i2_6	5	15,4	58,015	30,65	PF00155.20	Aminotran_1_2	221,9	1,30E-65	CL0061
TRINITY_DN17872_c0_g1_i1_2	2	20,8	12,261	13,116	PF00171.21	Aldedh	178,3	1,90E-52	CL0099
TRINITY_DN20473_c0_g1_i1_1	2	25	10,345	12,612	PF04718.14	ATP-synt_G	33,8	4,20E-08	No_clan
TRINITY_DN5188_c0_g1_i2_1	4	10,2	68,203	26,43	PF08623.9	TIP120	193,2	2,40E-57	CL0020
TRINITY_DN3281_c0_g1_i1_6	2	13,3	16,214	12,921					
TRINITY_DN12704_c0_g1_i1_1	4	15,1	47,139	30,778	PF02358.15	Trehalose_PPase	236,9	1,50E-70	CL0137
TRINITY_DN11185_c0_g1_i1_1	4	10,5	64,81	29,25	PF09335.10	SNARE_assoc	33,2	5,50E-08	No_clan
TRINITY_DN10615_c1_g1_i1_1	1	3,3	40,053	11,372	PF02815.18	MIR	49,5	4,10E-13	CL0066
TRINITY_DN63_c0_g1_i1_3	5	31,6	23,874	34,573	PF01918.20	Alba	67,4	6,90E-19	CL0441
TRINITY_DN6258_c0_g1_i2_6	1	7	24,51	16,208					
TRINITY_DN6195_c0_g2_i1_2	2	5,3	26,511	11,426	PF01918.20	Alba	50	1,80E-13	CL0441
TRINITY_DN6481_c0_g1_i1_1	1	5,9	25,617	7,7879	PF00160.20	Pro_isomerase	172,4	7,70E-51	CL0475

TRINITY_DN14793_c0_g1_i1_1	6	26,1	42,877	48,454	PF09334.10	tRNA-synt_1g	437,1	4,60E-131	CL0039
TRINITY_DN4384_c0_g1_i1_6	1	9,9	12,515	145,93	PF02298.16	Cu_bind_like	65,3	3,50E-18	CL0026
TRINITY_DN9364_c0_g1_i1_1	4	17,8	48,082	40,427	PF00226.30	DnaJ	99,1	1,10E-28	CL0392
TRINITY_DN9162_c0_g3_i1_4	2	11,7	24,418	61,573	PF01641.17	SelR	160,9	1,20E-47	CL0080
TRINITY_DN7289_c0_g1_i1_3	7	21,1	64,337	45,038	PF14829.5	GPAT_N	120,1	2,70E-35	No_clan
TRINITY_DN3061_c0_g2_i1_3	2	6,2	39,611	12,075	PF00657.21	Lipase_GDSL	50	3,30E-13	CL0264
TRINITY_DN10426_c0_g1_i1_5	6	11,8	86,76	48,142	PF02922.17	CBM_48	48,5	7,80E-13	CL0369
TRINITY_DN10788_c0_g1_i1_1	3	6,6	41,009	23,82	PF08059.12	SEP	92,3	2,00E-26	No_clan
TRINITY_DN11653_c0_g1_i11_5	12	39,2	47,827	9,7006	PF00022.18	Actin	491,2	1,70E-147	CL0108
TRINITY_DN8256_c0_g1_i1_1	2	9,5	33,173	15,421	PF03381.14	CDC50	293,9	1,20E-87	No_clan
TRINITY_DN19311_c0_g1_i1_5	5	29,7	36,928	37,276	PF02212.17	GED	95,4	1,50E-27	No_clan
TRINITY_DN11315_c0_g1_i1_2	2	5,9	40,67	11,123	PF10075.8	CSN8_PSD8_EIF3K	65,9	3,50E-18	CL0123
TRINITY_DN9466_c0_g1_i1_2	1	10,1	21,077	11,765	PF06232.10	ATS3	180,9	7,10E-54	CL0321
TRINITY_DN10194_c0_g1_i1_3	2	6,7	50,29	15,742	PF00026.22	Asp	385,3	2,20E-115	CL0129
TRINITY_DN6989_c0_g1_i1_2	4	14,7	32,607	24,196	PF02824.20	TGS	55	5,70E-15	CL0072
TRINITY_DN14960_c0_g1_i1_3	5	15,6	40,102	32	PF00180.19	Iso_dh	157,5	4,60E-46	CL0270
TRINITY_DN6781_c0_g2_i1_1	4	6,8	78,519	26,482	PF00083.23	Sugar_tr	160,6	5,40E-47	CL0015
TRINITY_DN4623_c0_g2_i2_1	4	10,7	58,244	42,233	PF00332.17	Glyco_hydro_17	276,4	3,10E-82	CL0058
TRINITY_DN10600_c0_g1_i1_5	6	11,2	88,824	44,103	PF04424.12	MINDY_DUB	124,5	2,00E-36	No_clan
TRINITY_DN1407_c0_g1_i2_4	1	7,2	19,199	11,413	PF00637.19	Clathrin	37,6	1,60E-09	CL0020
TRINITY_DN2265_c0_g1_i1_5	3	15,8	23,902	19,134					
TRINITY_DN8192_c0_g2_i2_5	4	20,3	28,632	32,004	PF00149.27	Metallophos	48,6	1,30E-12	CL0163
TRINITY_DN6164_c0_g2_i1_1	5	35,6	20,856	41,23	PF12999.6	PRKCSH-like	135,6	1,40E-39	No_clan
TRINITY_DN715_c0_g1_i1_6	2	18,4	11,287	49,852	PF10203.8	Pet191_N	67,5	8,60E-19	No_clan
TRINITY_DN18948_c0_g1_i1_2	2	39,4	11,914	19,042	PF00005.26	ABC_tran	52,6	6,10E-14	CL0023
TRINITY_DN20147_c0_g1_i1_4	4	33,9	14,009	25,582	PF00781.23	DAGK_cat	50,8	1,10E-13	CL0240
TRINITY_DN8171_c0_g1_i1_2	4	14	38,419	25,984	PF00501.27	AMP-binding	155,1	2,00E-45	CL0378
TRINITY_DN6538_c0_g1_i1_4	5	32,8	19,2	11,341	PF01717.17	Meth_synt_2	142,7	1,40E-41	CL0160
TRINITY_DN6949_c0_g1_i2_3	5	10,1	58,254	26,609	PF00294.23	PfkB	264,5	1,10E-78	CL0118
TRINITY_DN15219_c0_g1_i1_6	6	40,6	19,434	36,318	PF00183.17	HSP90	183,5	6,60E-54	No_clan
TRINITY_DN11665_c0_g1_i3_2	9	11,3	100,26	18,107	PF00122.19	E1-E2_ATPase	164	2,40E-48	No_clan
TRINITY_DN17687_c0_g1_i1_2	2	32,9	9,1632	15,101					
TRINITY_DN9097_c0_g1_i1_2	5	21,7	38,069	34,737	PF00153.26	Mito_carr	62,8	1,90E-17	No_clan

TRINITY_DN17840_c0_g1_i1_2	3	24,6	14,718	17,173	PF01031.19	Dynamin_M	50	2,20E-13	No_clan
TRINITY_DN2942_c0_g1_i1_5	1	7,7	16,064	6,5426	PF16363.4	GDP_Man_Dehyd	123,2	1,40E-35	CL0063
TRINITY_DN4861_c0_g3_i1_4	2	9,7	25,881	6,5762	PF03939.12	Ribosomal_L23eN	71,2	5,80E-20	No_clan
TRINITY_DN1788_c0_g2_i1_3	2	5,7	38,972	17,227	PF02921.13	UCR_TM	45,7	6,20E-12	CL0300
TRINITY_DN6718_c0_g1_i1_5	2	13,7	11,446	12,657					
TRINITY_DN2144_c0_g2_i1_3	4	26,3	38,463	36,223	PF02893.19	GRAM	95,4	1,70E-27	CL0266
TRINITY_DN4927_c0_g1_i1_6	1	9,5	12,774	7,2919	PF13802.5	Gal_mutarotas_2	71,2	6,40E-20	CL0103
TRINITY_DN11271_c0_g1_i1_6	7	37,9	15,708	15,851	PF00240.22	ubiquitin	103,6	3,10E-30	CL0072
TRINITY_DN8924_c0_g1_i1_1	4	13,6	50,23	29,643	PF01429.18	MBD	48,4	5,40E-13	CL0081
TRINITY_DN779_c0_g1_i1_1	4	17,6	28,833	47,557	PF01026.20	TatD_DNase	194,3	2,20E-57	CL0034
TRINITY_DN938_c0_g1_i1_5	3	20,8	22,757	117,94	PF08597.9	eIF3_subunit	135,8	2,10E-39	No_clan
TRINITY_DN9792_c1_g2_i1_6	3	14,6	28,976	20,742	PF00171.21	Aldedh	193,3	5,10E-57	CL0099
TRINITY_DN9457_c0_g1_i2_1	3	8,8	57,829	23,09	PF00995.22	Sec1	202,6	1,50E-59	No_clan
TRINITY_DN4143_c0_g1_i1_1	8	37,9	36,746	7,2876	PF00091.24	Tubulin	236,3	3,00E-70	CL0566
TRINITY_DN13762_c0_g1_i1_3	2	17,4	12,063	11,705	PF03719.14	Ribosomal_S5_C	27,9	1,10E-06	CL0329
TRINITY_DN8478_c1_g1_i1_2	3	18,5	16,162	25,179					
TRINITY_DN7608_c0_g1_i1_4	5	19	37,73	40,948	PF00789.19	UBX	72	3,20E-20	CL0072
TRINITY_DN4512_c0_g1_i1_4	1	7,4	14,921	6,7198					
TRINITY_DN9675_c0_g1_i1_1	6	17,4	41,321	25,219	PF00294.23	PfkB	275,9	3,70E-82	CL0118
TRINITY_DN7474_c0_g2_i1_2	4	19,3	32,636	44,415	PF00635.25	Motile_Sperm	94,1	4,00E-27	CL0556
TRINITY_DN10982_c0_g1_i1_1	1	2,4	40,202	6,6564	PF01070.17	FMN_dh	413,6	5,40E-124	CL0036
TRINITY_DN1335_c0_g1_i1_2	3	12,3	40,651	20,464	PF05212.11	DUF707	419,4	7,20E-126	No_clan
TRINITY_DN10530_c0_g1_i4_3	2	4,6	63,729	16,682	PF01409.19	tRNA-synt_2d	311	5,00E-93	CL0040
TRINITY_DN8417_c0_g1_i2_2	2	15,3	23,476	13,47	PF12796.6	Ank_2	40,5	2,90E-10	CL0465
TRINITY_DN11265_c0_g1_i1_3	3	8,8	37,122	17,464	PF01501.19	Glyco_transf_8	292	3,80E-87	CL0110
TRINITY_DN2984_c0_g2_i1_3	4	14,5	43,833	32,525	PF00571.27	CBS	20,5	0,00045	No_clan
TRINITY_DN1687_c0_g1_i1_2	4	12,6	39,897	14,449	PF01602.19	Adaptin_N	196,6	5,80E-58	CL0020
TRINITY_DN8065_c0_g1_i1_1	7	30	43,004	46,929	PF00928.20	Adap_comp_sub	239,7	3,30E-71	CL0448
TRINITY_DN11452_c0_g2_i2_2	7	23,6	49,764	48,479	PF14226.5	DIOX_N	62,6	5,10E-17	CL0029
TRINITY_DN6644_c0_g1_i1_2	2	15	20,059	14,125					
TRINITY_DN3807_c1_g1_i1_3	2	39,3	9,9731	21,833	PF12799.6	LRR_4	30,5	3,10E-07	CL0022
TRINITY_DN7004_c0_g2_i1_2	2	13	20,197	13,199	PF04281.12	Tom22	32,3	7,00E-08	No_clan
TRINITY_DN10332_c0_g2_i1_4	4	12,5	57,333	39,078	PF00202.20	Aminotran_3	312,3	3,70E-93	CL0061

TRINITY_DN8478_c0_g1_i1_1	3	22,1	14,867	19,478					
TRINITY_DN11043_c0_g1_i1_6	1	2,6	56,452	12,033	PF01222.16	ERG4_ERG24	288,4	7,90E-86	CL0115
TRINITY_DN6414_c0_g2_i2_1	3	17,1	32,576	20,532	PF01725.15	Ham1p_like	179,4	5,10E-53	CL0269
TRINITY_DN12528_c0_g1_i1_1	3	20,7	32,203	20,307					
TRINITY_DN2126_c0_g1_i1_4	4	30,2	17,102	13,153	PF03953.16	Tubulin_C	107,6	4,50E-31	CL0442
TRINITY_DN8608_c1_g1_i1_4	3	13,6	25,778	19,89	PF00407.18	Bet_v_1	85,8	2,50E-24	CL0209
TRINITY_DN10518_c0_g1_i3_1	2	6,9	45,077	23,861	PF03492.14	Methyltransf_7	318,7	4,00E-95	CL0063
TRINITY_DN10154_c0_g1_i1_3	4	10,9	52,027	28,95	PF01180.20	DHO_dh	110	1,20E-31	CL0036
TRINITY_DN4990_c0_g2_i1_5	2	18,4	23,564	13,005	PF00232.17	Glyco_hydro_1	210,1	3,70E-62	CL0058
TRINITY_DN8848_c0_g1_i1_2	6	18	59,234	28,507	PF00514.22	Arm	44,2	1,20E-11	CL0020
TRINITY_DN2750_c0_g2_i1_2	2	6,2	29,994	12,62	PF13419.5	HAD_2	80,7	1,20E-22	CL0137
TRINITY_DN6078_c0_g1_i2_4	3	13	40,518	21,44					
TRINITY_DN8790_c0_g2_i2_2	1	4,4	24,229	6,4446	PF03650.12	MPC	123,4	4,00E-36	CL0141
TRINITY_DN6367_c0_g1_i1_3	2	12,3	30,76	15,023	PF01652.17	IF4E	184,1	1,40E-54	CL0625
TRINITY_DN11511_c1_g1_i1_6	1	7,1	14,377	6,3072					
TRINITY_DN6200_c0_g1_i1_6	2	21,4	19,307	17,892	PF00291.24	PALP	78,1	7,10E-22	No_clan
TRINITY_DN8259_c0_g1_i1_2	4	14,3	36,689	54,828	PF04414.11	tRNA_deacylase	229,5	2,70E-68	CL0408
TRINITY_DN6098_c0_g1_i1_2	3	7,4	50,58	17,869	PF00348.16	polyprenyl_synt	292,6	1,70E-87	CL0613
TRINITY_DN17635_c0_g1_i1_1	5	17,6	35,058	11,355	PF00330.19	Aconitase	202,1	1,50E-59	No_clan
TRINITY_DN21752_c0_g1_i1_3	2	55,7	8,8966	20,439					
TRINITY_DN11371_c0_g2_i1_1	3	7,6	55,643	20,732	PF00202.20	Aminotran_3	296,4	2,40E-88	CL0061
TRINITY_DN4480_c0_g1_i2_2	3	11,7	38,481	21,773	PF00153.26	Mito_carr	67,3	7,80E-19	No_clan
TRINITY_DN6825_c0_g1_i1_1	3	8,9	44,988	21,037	PF13561.5	adh_short_C2	161,5	2,10E-47	CL0063
TRINITY_DN15184_c0_g1_i1_6	2	14,3	16,376	12,678					
TRINITY_DN2842_c0_g1_i1_6	3	19,7	25,807	29,779	PF14226.5	DIOX_N	94,5	6,90E-27	CL0029
TRINITY_DN7658_c0_g1_i1_3	6	19,5	32,178	13,322	PF00071.21	Ras	204	9,90E-61	CL0023
TRINITY_DN6555_c0_g1_i2_5	1	5,1	29,795	8,3485	PF03151.15	TPT	273	2,80E-81	CL0184
TRINITY_DN7691_c0_g1_i2_3	3	11,7	36,879	19,012	PF02705.15	K_trans	115,2	2,80E-33	CL0062
TRINITY_DN11075_c0_g1_i1_1	5	7	73,32	6,2723	PF00076.21	RRM_1	55,5	3,50E-15	CL0221
TRINITY_DN8971_c0_g1_i1_4	1	24	10,895	27,206	PF16114.4	Citrate_bind	69	3,30E-19	CL0506
TRINITY_DN11579_c0_g1_i2_1	2	17,3	24,33	19,877	PF01592.15	NifU_N	183,5	1,40E-54	CL0233
TRINITY_DN3015_c0_g1_i1_1	4	15,3	40,462	30,78	PF01031.19	Dynamin_M	202,4	8,10E-60	No_clan
TRINITY_DN1893_c0_g1_i1_2	1	25,7	8,2732	20,251					

TRINITY_DN51_c0_g1_i1_2	3	19,8	20,1	22,69	PF00180.19	Iso_dh	153,4	8,10E-45	CL0270
TRINITY_DN9907_c0_g2_i2_3	2	4,7	44,196	11,691	PF13640.5	2OG-FeII_Oxy_3	73	2,70E-20	CL0029
TRINITY_DN12604_c0_g1_i1_2	3	5,3	73,357	18,231	PF02446.16	Glyco_hydro_77	238,5	1,30E-70	CL0058
TRINITY_DN16223_c0_g1_i1_1	2	42,7	8,1734	11,531	PF13246.5	Cation_ATPase	41,6	9,30E-11	CL0137
TRINITY_DN1060_c0_g1_i1_1	3	11,5	23,784	19,979	PF00226.30	DnaJ	37,5	1,80E-09	CL0392
TRINITY_DN10488_c0_g1_i1_2	5	14,7	45,762	37,396	PF04845.12	PurA	72,2	3,50E-20	CL0609
TRINITY_DN9024_c1_g1_i2_5	4	14,9	32,892	24,12	PF03937.15	Sdh5	74	6,50E-21	No_clan
TRINITY_DN10216_c0_g1_i1_3	2	13,5	23,737	15,187	PF00378.19	ECH_1	79,2	2,80E-22	CL0127
TRINITY_DN4751_c0_g1_i1_3	3	14,4	37,806	35,205	PF13266.5	DUF4057	515,7	4,60E-155	No_clan
TRINITY_DN3627_c0_g2_i1_4	4	12,7	53,928	26,616	PF04137.14	ERO1	418,3	2,30E-125	No_clan
TRINITY_DN5091_c0_g1_i1_4	5	16,7	43,759	31,733	PF05701.10	WEMBL	399,4	2,40E-119	No_clan
TRINITY_DN10763_c0_g1_i4_1	1	14,9	9,4027	6,5876					
TRINITY_DN11635_c2_g1_i6_2	8	20,9	45,031	20,759	PF00248.20	Aldo_ket_red	240	2,70E-71	No_clan
TRINITY_DN19987_c0_g1_i1_3	2	19,5	9,9091	7,0101	PF00244.19	14-3-3	85,6	3,00E-24	No_clan
TRINITY_DN10849_c0_g1_i2_5	1	8,1	21,818	6,613					
TRINITY_DN9489_c0_g2_i1_2	2	9,9	39,259	19,26	PF00112.22	Peptidase_C1	236,7	3,00E-70	CL0125
TRINITY_DN4080_c0_g1_i1_3	3	20,6	18,864	21,561	PF05633.10	BPS1	129,3	1,70E-37	CL0133
TRINITY_DN6613_c0_g1_i1_4	3	15,2	35,69	33,685	PF00293.27	NUDIX	81	6,90E-23	CL0261
TRINITY_DN8186_c0_g1_i3_1	7	23,8	41,598	27,996	PF00224.20	PK	241,3	1,30E-71	CL0151
TRINITY_DN11291_c0_g1_i2_3	3	13,8	33,549	23,587	PF02737.17	3HCDH_N	117,4	6,10E-34	CL0063
TRINITY_DN11520_c0_g1_i1_2	3	7,5	66,385	19,016	PF00328.21	His_Phos_2	169,9	9,60E-50	CL0071
TRINITY_DN8996_c0_g1_i1_4	1	5,8	31,704	10,048	PF00179.25	UQ_con	175	5,80E-52	CL0208
TRINITY_DN10798_c1_g1_i1_2	2	10,6	18,402	11,337	PF02516.13	STT3	74,7	6,30E-21	CL0111
TRINITY_DN4765_c0_g3_i1_1	5	20,2	39,632	32,664	PF00069.24	Pkinase	92,9	2,00E-26	CL0016
TRINITY_DN8594_c0_g1_i1_1	3	47,5	10,898	25,199					
TRINITY_DN10973_c0_g3_i2_1	4	13,3	30,982	31,179	PF00071.21	Ras	31,3	1,20E-07	CL0023
TRINITY_DN17195_c0_g1_i1_1	2	13,7	18,368	13,043	PF00168.29	C2	63,1	2,20E-17	CL0154
TRINITY_DN7057_c1_g1_i1_2	3	7,7	52,58	19,34	PF07859.12	Abhydrolase_3	58,4	8,20E-16	CL0028
TRINITY_DN23079_c0_g1_i1_4	2	37,7	8,2407	10,978	PF00702.25	Hydrolase	33,1	6,20E-08	CL0137
TRINITY_DN1992_c0_g1_i1_1	2	18,8	15,213	7,6057					
TRINITY_DN13881_c0_g1_i1_1	4	20,6	35,299	28,962	PF04321.16	RmlD_sub_bind	112,2	2,20E-32	CL0063
TRINITY_DN14656_c0_g1_i1_2	3	52,7	8,2872	20,016					
TRINITY_DN3861_c0_g1_i2_3	4	21,4	27,902	25,96	PF07944.11	Glyco_hydro_127	29,4	2,70E-07	CL0059

TRINITY_DN8241_c0_g1_i1_2	2	17,1	31,795	13,082	PF00274.18	Glycolytic	446	6,50E-134	CL0035
TRINITY_DN17884_c0_g1_i1_4	2	40	7,6419	38,583	PF00133.21	tRNA-synt_1	81,6	3,60E-23	CL0039
TRINITY_DN7822_c0_g1_i3_2	1	4,7	47,56	27,227	PF04144.12	SCAMP	182,8	6,30E-54	No_clan
TRINITY_DN11037_c0_g1_i1_3	1	4,3	43,876	9,3249	PF00364.21	Biotin_lipoyl	30,7	1,90E-07	CL0105
TRINITY_DN5712_c0_g2_i2_1	3	14,2	43,452	25,754	PF00501.27	AMP-binding	166	9,30E-49	CL0378
TRINITY_DN22171_c0_g1_i1_5	3	38,9	13,833	19,694	PF08502.9	LeuA_dimer	45	8,70E-12	No_clan
TRINITY_DN12955_c0_g1_i1_1	1	21,4	9,4475	7,8602					
TRINITY_DN10631_c0_g1_i1_4	2	6,3	51,659	13,982	PF07851.12	TMPIT	335,3	3,50E-100	No_clan
TRINITY_DN6543_c0_g1_i1_4	3	17,6	22,099	19,564					
TRINITY_DN10109_c0_g1_i3_2	1	5,2	25,188	7,1508					
TRINITY_DN11659_c0_g1_i1_1	1	7,4	17,869	7,0109	PF00171.21	Aldedh	53,6	1,20E-14	CL0099
TRINITY_DN21796_c0_g1_i1_1	2	24	15,875	16,104	PF00271.30	Helicase_C	57,7	1,20E-15	CL0023
TRINITY_DN10608_c0_g1_i4_3	2	8,8	31,289	15,417	PF02826.18	2-Hacid_dh_C	178,7	6,20E-53	CL0063
TRINITY_DN8882_c0_g1_i3_2	3	10	53,397	28,457	PF00917.25	MATH	33,9	2,60E-08	CL0389
TRINITY_DN8417_c1_g1_i1_6	2	34,3	7,4932	13,372					
TRINITY_DN285_c0_g1_i1_6	2	9	34,606	13,939	PF16752.4	TBCC_N	92,9	1,70E-26	No_clan
TRINITY_DN8647_c0_g1_i1_4	1	5,9	19,852	6,6033					
TRINITY_DN1686_c0_g1_i1_2	1	8,6	13,003	6,5766	PF02297.16	COX6B	61	8,90E-17	CL0351
TRINITY_DN16666_c0_g1_i1_3	1	22,3	10,158	10,533					
TRINITY_DN8134_c0_g1_i1_2	1	5,6	21,533	6,5533	PF08768.10	DUF1794	114,8	3,10E-33	CL0116
TRINITY_DN1558_c0_g1_i1_3	4	33,1	17,65	43,975	PF01504.17	PIP5K	75,2	4,40E-21	CL0016
TRINITY_DN7263_c0_g1_i1_2	2	10,7	21,835	12,691	PF13418.5	Kelch_4	33,6	2,50E-08	CL0186
TRINITY_DN9028_c0_g1_i1_3	2	4,7	71,209	17,59	PF13639.5	zf-RING_2	42	8,20E-11	CL0229
TRINITY_DN10191_c0_g1_i1_3	1	11,3	15,324	16,775					
TRINITY_DN9202_c0_g1_i1_5	1	5,7	19,278	6,3482	PF08122.11	NDUF_B12	28,5	1,10E-06	No_clan
TRINITY_DN3322_c0_g2_i1_2	3	14,6	45,159	29,507	PF01960.17	ArgJ	465,5	9,70E-140	CL0635
TRINITY_DN661_c0_g1_i1_1	2	13,4	30,647	15,293	PF00977.20	His_biosynth	120,1	8,70E-35	CL0036
TRINITY_DN284_c0_g2_i1_5	2	27,2	15,668	23,09	PF01300.17	Sua5_yciO_yrdC	82,2	2,90E-23	No_clan
TRINITY_DN804_c0_g1_i1_1	2	18,8	16,898	23,44					
TRINITY_DN14006_c0_g1_i1_3	2	26,1	12,023	11,805	PF00109.25	ketoacyl-synt	73	2,60E-20	CL0046
TRINITY_DN21069_c0_g1_i1_4	3	21	23,615	24,043	PF07944.11	Glyco_hydro_127	135,3	2,20E-39	CL0059
TRINITY_DN9015_c0_g1_i1_4	4	25,8	19,994	38,35	PF09066.9	B2-adapt-app_C	110,7	3,60E-32	CL0545
TRINITY_DN10966_c0_g1_i1_3	4	25,4	26,349	32,587	PF03483.16	B3_4	36	4,80E-09	CL0383

TRINITY_DN3062_c0_g1_i1_3	4	13,5	34,617	27,824	PF03071.14	GNT-I	375,9	2,20E-112	CL0110
TRINITY_DN15393_c0_g1_i1_5	1	18,1	13,277	9,556	PF06045.10	Rhamnogal_lyase	92,5	2,30E-26	CL0103
TRINITY_DN7397_c0_g1_i2_1	2	13,4	40,363	13,394	PF09439.9	SRPRB	121	3,40E-35	CL0023
TRINITY_DN843_c0_g1_i1_5	5	13,4	48,826	36,227	PF13432.5	TPR_16	15,5	0,018	CL0020
TRINITY_DN13608_c0_g1_i1_6	2	27,8	11,803	24,218					
TRINITY_DN3889_c0_g3_i1_3	2	10,5	15,523	11,781	PF06201.12	PITH	88,2	5,70E-25	CL0202
TRINITY_DN6029_c0_g1_i1_1	4	26,9	23,055	32,503	PF00026.22	Asp	195,7	1,20E-57	CL0129
TRINITY_DN5896_c0_g1_i2_3	2	16,5	27,114	14,813					
TRINITY_DN12487_c0_g1_i1_1	9	45,9	24,278	40,464	PF13246.5	Cation_ATPase	27,2	2,90E-06	CL0137
TRINITY_DN21101_c0_g1_i1_4	2	26,9	11,59	27,297	PF04321.16	RmlD_sub_bind	37,9	9,50E-10	CL0063
TRINITY_DN20395_c0_g2_i1_2	2	29,4	17,522	26,757					
TRINITY_DN11574_c0_g1_i5_3	4	7,4	64,601	27,689	PF01565.22	FAD_binding_4	91,5	3,50E-26	CL0077
TRINITY_DN16156_c0_g1_i1_2	1	20	8,4896	46,803					
TRINITY_DN10717_c1_g1_i3_1	1	1,8	58,615	6,7271	PF02136.19	NTF2	109	2,00E-31	CL0051
TRINITY_DN11531_c0_g1_i3_3	4	7,1	65,942	25,545	PF00632.24	HECT	304,5	8,50E-91	CL0552
TRINITY_DN7911_c0_g1_i3_1	3	12,6	27,513	130,34	PF00085.19	Thioredoxin	103,6	4,20E-30	CL0172
TRINITY_DN5389_c0_g1_i1_5	1	4,6	29,851	9,5259	PF14533.5	USP7_C2	127,3	6,00E-37	CL0072
TRINITY_DN7964_c0_g4_i1_6	3	21,6	21,069	21,942	PF07714.16	Pkinase_Tyr	94	8,50E-27	CL0016
TRINITY_DN12169_c0_g1_i1_2	2	9,7	18,392	15,779	PF00076.21	RRM_1	46,1	3,00E-12	CL0221
TRINITY_DN23339_c0_g1_i1_1	1	16,1	10,432	7,5318	PF01274.21	Malate_synthase	34,5	6,30E-09	CL0151
TRINITY_DN9250_c0_g1_i1_3	2	2,8	49,771	13,008	PF00226.30	DnaJ	94,6	2,60E-27	CL0392
TRINITY_DN18399_c0_g1_i1_1	2	18,9	13,866	12,597	PF13246.5	Cation_ATPase	29,3	6,10E-07	CL0137
TRINITY_DN9486_c0_g1_i1_2	3	9	55,221	68,912	PF00076.21	RRM_1	49,9	1,90E-13	CL0221
TRINITY_DN5674_c0_g1_i1_1	4	12,3	60,184	30,2	PF01595.19	DUF21	129,1	1,30E-37	No_clan
TRINITY_DN6255_c0_g3_i1_1	3	22,1	27,131	28,533	PF00560.32	LRR_1	11,6	0,3	CL0022
TRINITY_DN10766_c0_g1_i3_3	4	7,9	74,746	25,787	PF02990.15	EMP70	564,7	1,60E-169	No_clan
TRINITY_DN10543_c0_g1_i1_6	2	8,6	42,28	18,451	PF00300.21	His_Phos_1	26,7	3,50E-06	CL0071
TRINITY_DN2263_c0_g2_i1_6	1	6,3	23,174	7,7685	PF08033.11	Sec23_BS	75	5,70E-21	No_clan
TRINITY_DN11003_c0_g2_i5_2	5	15,5	58,372	30,525	PF00282.18	Pyridoxal_deC	72,2	2,90E-20	CL0061
TRINITY_DN9687_c1_g1_i2_2	2	4,6	36,575	11,459	PF06273.10	eIF-4B	348,6	6,90E-104	No_clan
TRINITY_DN9737_c1_g1_i1_4	6	27,9	32,025	6,9917	PF00025.20	Arf	265,6	1,30E-79	CL0023
TRINITY_DN11475_c0_g1_i1_2	1	3,3	56,965	-2					
TRINITY_DN6747_c0_g1_i1_2	2	6,1	38,039	11,159					

TRINITY_DN2919_c0_g1_i1_5	3	28	20,26	6,5685	PF02773.15	S-AdoMet_synt_C	210,7	6,60E-63	No_clan
TRINITY_DN9215_c0_g1_i1_2	2	6	42,04	12,969	PF03088.15	Str_synth	117,2	2,30E-34	CL0186
TRINITY_DN5123_c0_g1_i2_4	1	13,1	19,339	56,849	PF01920.19	Prefoldin_2	77,2	7,40E-22	CL0200
TRINITY_DN2276_c0_g2_i1_6	6	23,8	55,406	36,82	PF00686.18	CBM_20	64,4	6,10E-18	CL0369
TRINITY_DN8639_c0_g1_i1_6	2	8,9	30,499	17,276	PF08540.9	HMG_CoA_synt_C	263,5	2,30E-78	CL0046
TRINITY_DN6651_c0_g1_i1_3	2	4,5	62,61	14,315	PF00854.20	PTR2	236,8	3,40E-70	CL0015
TRINITY_DN8585_c0_g1_i1_4	6	22,6	61,812	44,353	PF00202.20	Aminotran_3	369,9	1,10E-110	CL0061
TRINITY_DN21541_c0_g1_i1_4	1	14,3	14,664	7,5763	PF00450.21	Peptidase_S10	187,4	5,30E-55	CL0028
TRINITY_DN8030_c0_g1_i1_2	1	5,7	21,477	7,3427					
TRINITY_DN7519_c0_g2_i1_2	6	15	52,195	21,195	PF01399.26	PCI	81,5	5,20E-23	CL0123
TRINITY_DN11415_c0_g1_i1_1	2	8,8	25,514	13,143	PF08523.9	MBF1	85,2	2,90E-24	No_clan
TRINITY_DN9353_c0_g1_i1_3	2	6,6	43,586	20,795	PF02453.16	Reticulon	200,8	1,10E-59	No_clan
TRINITY_DN5812_c0_g1_i1_1	4	15,5	34,06	25,477	PF00227.25	Proteasome	132,9	8,40E-39	CL0052
TRINITY_DN11107_c1_g1_i4_3	7	15,1	78,463	42,453					
TRINITY_DN3448_c0_g1_i1_2	1	4,2	38,104	8,6161	PF03083.15	MtN3_slv	83,2	9,10E-24	CL0141
TRINITY_DN9452_c0_g1_i1_1	2	6,7	40,567	12,629					
TRINITY_DN8582_c0_g2_i1_3	6	18,2	46,847	37,575	PF00365.19	PFK	187,1	3,80E-55	CL0240
TRINITY_DN15392_c0_g1_i1_5	2	22,5	12,468	15,167	PF01602.19	Adaptin_N	132,3	1,80E-38	CL0020
TRINITY_DN2089_c0_g1_i1_5	2	23,9	15,1	16,116					
TRINITY_DN8917_c0_g2_i1_3	7	18,2	60,036	50,779	PF00085.19	Thioredoxin	54,9	6,10E-15	CL0172
TRINITY_DN16117_c0_g1_i1_6	1	16,2	7,7507	7,3117	PF01301.18	Glyco_hydro_35	71,5	8,40E-20	CL0058
TRINITY_DN8546_c0_g1_i1_2	5	12,1	75,378	30,281	PF00501.27	AMP-binding	345,5	3,20E-103	CL0378
TRINITY_DN3962_c0_g1_i2_3	2	6,5	74,441	23,891	PF01602.19	Adaptin_N	168,9	1,50E-49	CL0020
TRINITY_DN2992_c0_g1_i1_3	4	18,6	41,239	33,399	PF03952.15	Enolase_N	120,8	3,90E-35	CL0227
TRINITY_DN11605_c1_g1_i1_5	2	15,3	21,004	11,199	PF02466.18	Tim17	49,6	3,70E-13	No_clan
TRINITY_DN401_c0_g1_i1_3	4	16,5	31,961	7,9454	PF00071.21	Ras	203,5	1,40E-60	CL0023
TRINITY_DN18414_c0_g1_i1_2	3	11,6	44,6	19,183	PF01408.21	GFO_IDH_MocA	41,4	2,00E-10	CL0063
TRINITY_DN9346_c0_g1_i2_1	4	8,3	62,924	24,012	PF01842.24	ACT	45	6,00E-12	CL0070
TRINITY_DN8618_c0_g2_i2_4	3	4,8	73,737	27,412	PF16499.4	Melibiase_2	24,2	1,50E-05	CL0058
TRINITY_DN5167_c0_g1_i1_5	2	5,2	55,923	18,781					
TRINITY_DN15469_c0_g1_i1_6	2	28	11,7	13,611	PF00350.22	Dynamin_N	76,8	1,80E-21	CL0023
TRINITY_DN19298_c0_g1_i1_1	1	14,5	13,369	15,299	PF01979.19	Amidohydro_1	62,1	5,10E-17	CL0034
TRINITY_DN11193_c0_g2_i3_2	3	13,4	39,365	20,382	PF01087.21	GalP_UDP_transf	71,5	1,10E-19	CL0265

TRINITY_DN11599_c1_g1_i4_1	3	34	11,764	19,499					
TRINITY_DN6675_c0_g1_i4_2	4	10,8	81,162	44,815	PF00270.28	DEAD	162,2	9,60E-48	CL0023
TRINITY_DN9665_c0_g1_i1_2	1	6,9	17,491	6,5689					
TRINITY_DN10222_c0_g1_i5_2	4	8	85,124	39,147	PF14438.5	SM-ATX	89,7	9,10E-26	CL0527
TRINITY_DN8244_c0_g1_i1_2	3	16,8	28,933	18,998	PF00085.19	Thioredoxin	79,3	1,60E-22	CL0172
TRINITY_DN6988_c0_g2_i1_1	3	13,3	46,133	23,121	PF00956.17	NAP	291,4	4,90E-87	No_clan
TRINITY_DN21693_c0_g1_i1_3	2	46,2	8,8806	15,708					
TRINITY_DN6721_c0_g1_i1_2	5	16,2	47,572	31,089	PF06068.12	TIP49	487,1	3,60E-146	CL0023
TRINITY_DN10523_c1_g1_i1_2	3	18	22,837	13,413	PF01776.16	Ribosomal_L22e	156	3,40E-46	No_clan
TRINITY_DN8754_c0_g1_i1_1	3	13,1	27,796	6,9356	PF00237.18	Ribosomal_L22	133,3	3,10E-39	No_clan
TRINITY_DN21226_c0_g1_i1_1	2	26	8,3075	12,179					
TRINITY_DN18056_c0_g1_i1_1	4	22,2	31,685	88,204	PF02469.21	Fasciclin	51,2	1,30E-13	No_clan
TRINITY_DN11502_c0_g1_i1_2	5	11,9	57,526	31,339	PF06911.11	Senescence	156,4	8,20E-46	No_clan
TRINITY_DN8308_c0_g2_i1_2	3	9,2	64,719	21,402	PF00112.22	Peptidase_C1	282,1	3,60E-84	CL0125
TRINITY_DN5126_c0_g1_i2_2	3	10,5	40,99	20,15	PF01875.16	Memo	278,1	5,50E-83	CL0283
TRINITY_DN7908_c0_g1_i1_3	3	13,6	42,162	21,206	PF08241.11	Methyltransf_11	22	0,00018	CL0063
TRINITY_DN10955_c0_g2_i3_1	10	40,5	32,078	26,663	PF00071.21	Ras	191,1	8,90E-57	CL0023
TRINITY_DN8800_c0_g1_i1_3	3	13,4	33,48	19,473	PF01467.25	CTP_transf_like	59,4	4,00E-16	CL0039
TRINITY_DN4365_c0_g1_i1_1	2	22,1	12,279	16,297	PF04842.11	DUF639	42	6,20E-11	No_clan
TRINITY_DN14633_c0_g1_i1_2	2	9,3	32,456	16,559	PF01380.21	SIS	114,9	2,00E-33	CL0067
TRINITY_DN3011_c0_g2_i1_3	3	27,3	20,773	21,088	PF05811.12	DUF842	122,2	1,10E-35	No_clan
TRINITY_DN2343_c0_g1_i1_1	3	21	22,689	20,315					
TRINITY_DN9033_c1_g1_i1_6	2	13,1	18,114	14,367	PF01105.23	EMP24_GP25L	72,2	4,80E-20	CL0521
TRINITY_DN2502_c0_g2_i1_2	2	12,7	25,256	12,723	PF02990.15	EMP70	178,4	2,10E-52	No_clan
TRINITY_DN7907_c0_g1_i4_4	1	7,4	23,097	12,015					
TRINITY_DN642_c0_g1_i1_2	4	13,8	46,24	27,443	PF01379.19	Porphobil_deam	244,2	8,20E-73	CL0177
TRINITY_DN701_c0_g2_i1_6	4	8,3	56,051	27,613	PF00403.25	HMA	42,6	5,70E-11	No_clan
TRINITY_DN6896_c0_g1_i1_1	1	6,7	18,616	7,2288	PF17250.1	NDUFB11	176,6	1,00E-52	No_clan
TRINITY_DN12989_c1_g1_i1_1	1	11,4	11,561	7,8755					
TRINITY_DN11038_c0_g1_i1_3	2	29,8	9,7543	7,9169					
TRINITY_DN6818_c0_g1_i1_3	2	8,8	28,723	25,614	PF03517.12	Voldacs	86,1	2,20E-24	CL0266
TRINITY_DN18372_c0_g1_i1_2	3	66,2	7,4115	27,517	PF02826.18	2-Hacid_dh_C	90,2	8,80E-26	CL0063
TRINITY_DN19362_c0_g1_i1_3	3	21	17,538	19,36					

TRINITY_DN13345_c0_g1_i1_4	1	13,6	9,727	6,8652	PF00458.19	WHEP-TRS	33,2	4,00E-08	CL0600
TRINITY_DN8412_c0_g1_i2_1	1	7,5	21,344	37,307	PF00179.25	UQ_con	130,8	2,50E-38	CL0208
TRINITY_DN15351_c0_g1_i1_3	3	22,1	27,416	19,745	PF03909.16	BSD	61,2	6,50E-17	No_clan
TRINITY_DN19403_c0_g1_i1_1	3	14,2	36,38	19,611	PF14510.5	ABC_trans_N	46,7	3,20E-12	No_clan
TRINITY_DN4912_c0_g1_i1_3	2	6,5	66,525	29,576	PF01039.21	Carboxyl_trans	522,7	8,30E-157	CL0127
TRINITY_DN9231_c0_g1_i3_3	2	11,1	18,143	12,077	PF00550.24	PP-binding	36,7	3,80E-09	CL0314
TRINITY_DN10613_c0_g1_i1_2	3	11,7	44,633	27,145	PF08241.11	Methyltransf_11	63,7	1,70E-17	CL0063
TRINITY_DN3524_c0_g1_i1_2	2	9,1	34,136	16,366	PF00226.30	DnaJ	92,1	1,60E-26	CL0392
TRINITY_DN3963_c0_g1_i1_1	3	5,1	75,993	23,137	PF00326.20	Peptidase_S9	77,3	1,00E-21	CL0028
TRINITY_DN1013_c0_g2_i1_6	3	9,6	44,362	17,102	PF01238.20	PMI_typeI	333,8	1,40E-99	CL0029
TRINITY_DN6811_c0_g2_i3_2	3	7,7	50,643	27,326	PF00579.24	tRNA-synt_1b	54	1,40E-14	CL0039
TRINITY_DN12201_c0_g2_i1_2	4	9,6	51,093	10,358	PF00076.21	RRM_1	57,5	8,30E-16	CL0221
TRINITY_DN8972_c0_g2_i1_1	3	5,9	87,582	28,66	PF03169.14	OPT	559,7	8,10E-168	No_clan
TRINITY_DN4764_c0_g2_i1_1	4	15	41,453	26,283	PF00226.30	DnaJ	83,7	6,60E-24	CL0392
TRINITY_DN2457_c0_g1_i1_1	1	18,7	13,303	13,246					
TRINITY_DN11036_c0_g1_i5_1	2	5,4	45,493	40,251	PF00083.23	Sugar_tr	291,9	7,90E-87	CL0015
TRINITY_DN10961_c0_g1_i3_3	3	16,9	28,507	23,444					
TRINITY_DN4707_c0_g3_i1_1	3	10,1	45,746	17,893	PF00704.27	Glyco_hydro_18	52,5	5,50E-14	CL0058
TRINITY_DN10673_c0_g1_i2_3	3	4,4	88,794	19,055	PF00888.21	Cullin	575	2,00E-172	No_clan
TRINITY_DN9408_c0_g1_i1_6	4	9,2	60,548	28,06	PF00749.20	tRNA-synt_1c	296,1	2,10E-88	CL0039
TRINITY_DN1822_c0_g2_i1_4	3	24,9	19,874	14,727	PF00183.17	HSP90	247,8	2,20E-73	No_clan
TRINITY_DN18094_c0_g1_i1_4	2	6,6	42,804	12,497	PF08033.11	Sec23_BS	55,6	6,10E-15	No_clan
TRINITY_DN3816_c0_g1_i1_4	3	13,4	39,708	21,28	PF08100.10	Dimerisation	49,5	3,00E-13	CL0123
TRINITY_DN10296_c0_g1_i1_1	1	4	35,122	7,3125	PF01849.17	NAC	77,3	6,20E-22	No_clan
TRINITY_DN5361_c0_g2_i1_1	4	10,2	58,324	26,133	PF07748.12	Glyco_hydro_38C	177,6	4,10E-52	CL0103
TRINITY_DN512_c0_g1_i1_4	4	12,8	42,777	25,564	PF00076.21	RRM_1	37,5	1,50E-09	CL0221
TRINITY_DN6953_c0_g1_i1_5	5	15,8	52,617	36,014	PF00155.20	Aminotran_1_2	240,8	2,30E-71	CL0061
TRINITY_DN22332_c0_g1_i1_1	2	29,5	9,8066	31,235					
TRINITY_DN8109_c0_g1_i2_3	3	12,3	31,575	20,033	PF09229.10	Aha1_N	87,4	9,00E-25	CL0648
TRINITY_DN9320_c0_g1_i1_1	3	25,8	13,586	18,279	PF14705.5	Costars	84,4	4,00E-24	No_clan
TRINITY_DN3842_c0_g1_i1_3	1	5,8	22,068	7,9578	PF06592.12	DUF1138	145,2	4,20E-43	No_clan
TRINITY_DN19595_c0_g1_i1_5	3	37,1	13,205	15,654	PF01095.18	Pectinesterase	148,6	1,40E-43	CL0268
TRINITY_DN12651_c0_g2_i1_3	2	7,1	52,083	13,276	PF00155.20	Aminotran_1_2	163,5	7,10E-48	CL0061

TRINITY_DN5781_c0_g1_i1_5	5	18,9	41,255	34,612	PF16940.4	Tic110	33,4	1,70E-08	No_clan
TRINITY_DN14210_c0_g1_i1_2	4	27,7	24,835	41,572					
TRINITY_DN5618_c0_g1_i1_1	2	17,5	18,806	20,752	PF00106.24	adh_short	121,1	3,70E-35	CL0063
TRINITY_DN8203_c0_g2_i1_6	3	32,8	13,562	27,442	PF02953.14	zf-Tim10_DDP	69,3	1,50E-19	No_clan
TRINITY_DN4496_c1_g1_i1_2	2	22,8	17,132	13,306	PF00342.18	PGI	43,6	1,40E-11	CL0067
TRINITY_DN13442_c0_g1_i1_1	2	21,4	12,944	13,231					
TRINITY_DN7081_c1_g1_i1_1	2	26,2	8,4717	13,094					
TRINITY_DN2528_c0_g1_i2_1	5	14,1	52,032	30,224	PF00270.28	DEAD	151,8	1,50E-44	CL0023
TRINITY_DN6839_c0_g2_i1_4	2	6,7	57,416	16,786	PF02705.15	K_trans	532	1,40E-159	CL0062
TRINITY_DN13687_c0_g1_i1_2	1	11	19,451	7,6866	PF02298.16	Cu_bind_like	76,8	9,00E-22	CL0026
TRINITY_DN7339_c0_g1_i1_1	2	10,9	20,638	12,998	PF01918.20	Alba	47,1	1,50E-12	CL0441
TRINITY_DN5933_c0_g1_i3_1	3	26,5	20,141	17,06	PF02597.19	ThiS	51,8	8,90E-14	CL0072
TRINITY_DN10134_c0_g1_i3_5	3	9,4	44,211	20,46	PF08241.11	Methyltransf_11	69,5	2,70E-19	CL0063
TRINITY_DN5831_c0_g1_i1_3	2	20,3	12,704	14,874					
TRINITY_DN8464_c0_g1_i3_6	2	13,9	26,729	11,228	PF04667.16	Endosulfine	84,2	4,70E-24	No_clan
TRINITY_DN11887_c0_g2_i1_4	1	11,3	14,04	26,023	PF00899.20	ThiF	32,9	3,70E-08	CL0063
TRINITY_DN3833_c0_g1_i1_2	3	14,1	28,277	32,17	PF04832.11	SOUL	177,2	2,80E-52	CL0319
TRINITY_DN10145_c0_g1_i1_3	3	15,2	25,919	19,556	PF11969.7	DcpS_C	95,6	2,30E-27	CL0265
TRINITY_DN7100_c0_g1_i2_3	3	17	25,324	14,953	PF00635.25	Motile_Sperm	98,2	2,10E-28	CL0556
TRINITY_DN23044_c0_g1_i1_1	1	14,5	9,1023	7,5232					
TRINITY_DN13518_c0_g1_i1_4	3	30,2	16,776	18,743	PF06427.10	UDP-g_GGTase	229,3	9,40E-68	No_clan
TRINITY_DN19196_c0_g1_i1_5	1	17,7	8,7178	6,9199	PF00141.22	peroxidase	37,4	2,00E-09	CL0617
TRINITY_DN3817_c0_g1_i1_5	1	10,5	12,999	7,1412	PF13943.5	WPP	121,4	1,50E-35	No_clan
TRINITY_DN4458_c0_g1_i1_2	3	28,4	16,267	21,367	PF00266.18	Aminotran_5	107,8	5,30E-31	CL0061
TRINITY_DN7255_c0_g1_i1_3	2	7,3	48,305	13,979					
TRINITY_DN6045_c0_g1_i3_1	2	8,4	33,202	14,041	PF16653.4	Sacchrp_dh_C	140,8	7,30E-41	No_clan
TRINITY_DN11230_c0_g1_i2_6	1	2,1	46,328	11,469	PF00847.19	AP2	44,3	1,40E-11	CL0081
TRINITY_DN3420_c0_g1_i2_3	3	18,3	26,567	19,73	PF04073.14	tRNA_edit	28	1,70E-06	No_clan
TRINITY_DN11146_c0_g1_i2_3	4	10,4	62,135	24,715	PF07714.16	Pkinase_Tyr	159,9	6,60E-47	CL0016
TRINITY_DN9423_c0_g3_i2_1	1	6,4	23,215	7,1204					
TRINITY_DN9788_c0_g1_i1_3	3	9,6	56,775	47,015	PF00004.28	AAA	150,1	4,20E-44	CL0023
TRINITY_DN2628_c0_g2_i1_1	1	15,2	9,9799	31,01					
TRINITY_DN9299_c0_g2_i1_3	3	9,3	47,291	20,487	PF09296.10	NUDIX-like	35,7	9,50E-09	CL0261

TRINITY_DN11235_c0_g2_i1_1	5	10,6	68,249	29,194					
TRINITY_DN5744_c1_g1_i2_2	2	22	19,133	18,69					
TRINITY_DN5626_c0_g2_i1_2	3	9,5	36,995	18,861	PF01025.18	GrpE	156,8	3,40E-46	No_clan
TRINITY_DN11440_c0_g1_i3_4	2	5,5	47,831	11,441	PF01399.26	PCI	41,9	1,10E-10	CL0123
TRINITY_DN11350_c0_g1_i3_2	3	12,3	45,25	27,637	PF01761.19	DHQ_synthase	352,2	1,30E-105	CL0224
TRINITY_DN11359_c0_g1_i1_2	3	9,3	46,672	20,873	PF00782.19	DSPc	40,8	1,60E-10	CL0031
TRINITY_DN9373_c0_g1_i1_6	1	16	8,9543	9,112					
TRINITY_DN12458_c0_g3_i1_3	6	17,6	52,03	33,79	PF00270.28	DEAD	181,1	1,50E-53	CL0023
TRINITY_DN5495_c0_g1_i2_2	2	4,1	49,265	11,198	PF02374.14	ArsA_ATPase	348,7	2,50E-104	CL0023
TRINITY_DN12738_c0_g1_i1_1	2	12,8	19,913	12,355	PF05222.14	AlaDh_PNT_N	92,2	3,10E-26	CL0325
TRINITY_DN7345_c0_g1_i1_4	4	11,1	48,762	28,02	PF10602.8	RPN7	190	2,50E-56	CL0020
TRINITY_DN6917_c0_g1_i1_3	4	13,2	54,151	23,1	PF00202.20	Aminotran_3	228	1,40E-67	CL0061
TRINITY_DN9153_c0_g1_i1_3	2	3	63,173	11,848	PF01055.25	Glyco_hydro_31	347,5	1,30E-103	CL0058
TRINITY_DN19500_c0_g1_i1_1	2	14,3	16,204	15,687	PF00575.22	S1	49	5,50E-13	CL0021
TRINITY_DN12333_c0_g1_i1_2	3	14,2	33,465	20,041					
TRINITY_DN10789_c0_g1_i1_1	5	17,8	47,873	31,241	PF01429.18	MBD	36,1	3,50E-09	CL0081
TRINITY_DN2912_c0_g2_i1_4	4	18,1	26,836	21,896	PF04278.11	Tic22	275,9	2,40E-82	No_clan
TRINITY_DN14787_c0_g1_i1_6	6	41	23,013	52,079	PF03109.15	ABC1	114,4	3,10E-33	CL0016
TRINITY_DN11096_c0_g1_i1_1	2	10,6	22,269	13,295	PF01920.19	Prefoldin_2	68,6	3,70E-19	CL0200
TRINITY_DN5451_c0_g1_i1_6	4	28,2	18,205	12,591	PF00411.18	Ribosomal_S11	110,3	5,70E-32	CL0267
TRINITY_DN11157_c0_g2_i5_4	1	4,1	26,021	-2					
TRINITY_DN8090_c0_g3_i1_2	5	25	26,893	19,67	PF02575.15	YbaB_DNA_bd	58,3	6,50E-16	No_clan
TRINITY_DN5532_c0_g1_i1_3	3	7,4	55,613	19,975	PF08442.9	ATP-grasp_2	60,5	1,40E-16	CL0179
TRINITY_DN8331_c0_g2_i1_3	2	12,7	30,168	16,287	PF03763.12	Remorin_C	108,8	1,10E-31	No_clan
TRINITY_DN7840_c1_g1_i1_1	2	7,6	27,574	16,497	PF00152.19	tRNA-synt_2	107,7	5,50E-31	CL0040
TRINITY_DN1523_c0_g1_i1_1	4	9,7	56,361	28,572	PF01053.19	Cys_Met_Meta_PP	483,1	3,80E-145	CL0061
TRINITY_DN14177_c0_g1_i1_3	1	15,7	9,6699	6,8332	PF01266.23	DAO	34,7	1,30E-08	CL0063
TRINITY_DN10869_c1_g1_i2_5	3	18,4	26,034	6,8154	PF00314.16	Thaumatin	267,6	8,00E-80	CL0293
TRINITY_DN5473_c0_g1_i1_5	3	12,2	34,237	18,596					
TRINITY_DN21224_c0_g1_i1_2	3	20	17,809	17,901					
TRINITY_DN6919_c0_g2_i1_3	2	13	21,045	13,448	PF01095.18	Pectinesterase	65,2	3,70E-18	CL0268
TRINITY_DN6224_c0_g1_i1_1	5	11,2	62,839	32,354	PF00400.31	WD40	12,9	0,15	CL0186

TRINITY_DN1121_c0_g1_i1_3	1	8,9	21,141	-2					
TRINITY_DN1480_c0_g1_i1_2	5	48,4	17,284	33,358					
TRINITY_DN12167_c0_g1_i1_5	1	9	17,791	8,5331	PF13520.5	AA_permease_2	40	2,00E-10	CL0062
TRINITY_DN458_c0_g1_i1_5	1	11	11,333	7,1125					
TRINITY_DN2404_c0_g1_i1_2	3	8,9	60,279	18,795	PF09743.8	E3_UFM1_ligase	310,3	1,20E-92	No_clan
TRINITY_DN9978_c0_g1_i1_2	1	4,8	22,844	17,04	PF06747.12	CHCH	38	1,20E-09	CL0351
TRINITY_DN8843_c0_g1_i3_1	3	8,1	42,872	22,822	PF00102.26	Y_phosphatase	237,1	1,80E-70	CL0031
TRINITY_DN6703_c0_g1_i1_2	3	15,8	32,6	43,541	PF01259.17	SAICAR_synt	241,7	8,70E-72	No_clan
TRINITY_DN11300_c0_g1_i1_3	5	14	70,826	35,73	PF00501.27	AMP-binding	285	7,10E-85	CL0378
TRINITY_DN3617_c0_g3_i1_5	1	6,5	22,326	6,7172					
TRINITY_DN10446_c0_g2_i1_1	2	2,9	80,087	11,732	PF00350.22	Dynamin_N	187,3	2,10E-55	CL0023
TRINITY_DN14501_c0_g1_i1_3	2	15,2	15,723	15,943	PF00295.16	Glyco_hydro_28	72,2	3,60E-20	CL0268
TRINITY_DN13753_c0_g1_i1_5	2	12,2	32,475	16,263	PF01412.17	ArfGap	67,5	8,80E-19	No_clan
TRINITY_DN18831_c0_g1_i1_1	2	35,1	12,052	15,723	PF07802.10	GCK	42	8,70E-11	No_clan
TRINITY_DN7892_c0_g1_i3_1	1	9,8	13,513	28,64					
TRINITY_DN6230_c0_g1_i1_1	2	8,1	32,591	14,392	PF05832.11	DUF846	162,6	4,90E-48	No_clan
TRINITY_DN18774_c0_g1_i1_4	3	23,6	18,388	18,741	PF05701.10	WEMBL	211,9	1,50E-62	No_clan
TRINITY_DN1997_c0_g1_i1_3	3	12,7	18,496	19,177	PF00067.21	p450	30,2	1,70E-07	No_clan
TRINITY_DN7250_c0_g1_i1_5	5	26,3	28,381	54,014	PF01583.19	APS_kinase	240,1	8,80E-72	CL0023
TRINITY_DN15321_c0_g1_i1_5	2	24,2	9,6377	13,35	PF08240.11	ADH_N	44,3	1,20E-11	CL0296
TRINITY_DN19751_c0_g1_i1_1	2	15,4	17,954	11,627	PF00122.19	E1-E2_ATPase	95,2	3,00E-27	No_clan
TRINITY_DN3119_c0_g1_i1_5	3	15,3	33,051	20,588	PF08662.10	eIF2A	43,1	3,90E-11	CL0186
TRINITY_DN2586_c0_g2_i1_1	1	12,4	10,379	6,8062	PF08240.11	ADH_N	36,7	2,90E-09	CL0296
TRINITY_DN18819_c0_g1_i1_4	3	24,4	21,321	17,475	PF01253.21	SUI1	87,7	5,30E-25	No_clan
TRINITY_DN13993_c0_g1_i1_4	1	18,1	14,289	6,5702					
TRINITY_DN20785_c0_g1_i1_2	2	30,4	12,087	13,665	PF00790.18	VHS	33,5	3,10E-08	CL0009
TRINITY_DN11337_c0_g1_i4_2	1	5,2	28,733	11,77					
TRINITY_DN8955_c0_g1_i4_2	1	5,1	26,946	7,2166	PF00190.21	Cupin_1	149,5	5,00E-44	CL0029
TRINITY_DN12162_c0_g1_i1_3	3	13	39,217	38,972					
TRINITY_DN9518_c0_g2_i2_1	1	8,3	14,971	7,2517	PF00574.22	CLP_protease	66,7	2,10E-18	CL0127
TRINITY_DN23667_c0_g1_i1_6	1	24,2	11,021	6,5176	PF00155.20	Aminotran_1_2	29,5	3,90E-07	CL0061
TRINITY_DN15391_c0_g1_i1_3	2	12,3	27,236	14,005					
TRINITY_DN8805_c0_g1_i2_1	3	5,1	81,716	21,191	PF03398.13	Ist1	196,1	3,30E-58	No_clan

TRINITY_DN7176_c0_g1_i3_3	2	17,6	25,088	14,091	PF00928.20	Adap_comp_sub	136,9	7,20E-40	CL0448
TRINITY_DN5898_c0_g1_i1_1	1	7,6	20,169	10,098	PF02953.14	zf-Tim10_DDP	69,7	1,20E-19	No_clan
TRINITY_DN8672_c0_g2_i1_3	4	26,6	25,123	31,474	PF02996.16	Prefoldin	98,9	1,60E-28	CL0200
TRINITY_DN1176_c0_g1_i1_6	2	27,6	9,3193	14,13					
TRINITY_DN4088_c0_g1_i1_6	4	10,3	63,833	24,936	PF00924.17	MS_channel	128,8	1,80E-37	No_clan
TRINITY_DN7361_c0_g1_i1_3	3	42,3	17,134	51,063	PF00173.27	Cyt-b5	87,2	5,60E-25	No_clan
TRINITY_DN6371_c0_g1_i2_5	3	9,1	47,046	20,44					
TRINITY_DN152_c0_g1_i1_1	2	16,1	26,408	31,094	PF05116.12	S6PP	49,8	2,90E-13	CL0137
TRINITY_DN211_c0_g1_i1_2	3	9,6	32,813	18,581	PF00179.25	UQ_con	133,8	2,90E-39	CL0208
TRINITY_DN10187_c0_g2_i3_3	3	9,7	43,065	18,402	PF04190.12	DUF410	229,8	4,30E-68	No_clan
TRINITY_DN10966_c1_g2_i1_2	3	20,7	20,026	22,204	PF03483.16	B3_4	52,2	5,40E-14	CL0383
TRINITY_DN17047_c0_g1_i1_4	4	28,1	24,255	27,074					
TRINITY_DN2953_c0_g1_i1_6	3	9,9	36,093	28,079					
TRINITY_DN10123_c0_g1_i1_2	5	13	54,236	30,424	PF00579.24	tRNA-synt_1b	218,6	1,00E-64	CL0039
TRINITY_DN6691_c0_g1_i1_3	2	4,9	52,896	14,022	PF13949.5	ALIX_LYPXL_bnd	234,1	1,90E-69	No_clan
TRINITY_DN9992_c0_g1_i2_2	2	10,3	27,076	13,12	PF00583.24	Acetyltransf_1	57,1	1,70E-15	CL0257
TRINITY_DN10481_c0_g2_i1_2	1	7,5	22,939	10,343	PF00834.18	Ribul_P_3_epim	198,1	8,70E-59	CL0036
TRINITY_DN23047_c0_g1_i1_3	2	32,6	9,0722	82,076	PF01230.22	HIT	22,3	0,00016	CL0265
TRINITY_DN12530_c0_g1_i1_3	1	15,6	10,343	9,7844	PF16656.4	Pur_ac_phosph_N	34,4	2,30E-08	CL0159
TRINITY_DN5479_c0_g1_i1_1	2	8	53,384	17,231	PF00202.20	Aminotran_3	394,4	4,20E-118	CL0061
TRINITY_DN14670_c0_g1_i1_5	2	17,6	18,34	15,439	PF03071.14	GNT-I	113,3	1,10E-32	CL0110
TRINITY_DN7295_c0_g1_i1_1	2	5,6	42,754	11,475	PF00155.20	Aminotran_1_2	175,3	1,90E-51	CL0061
TRINITY_DN9388_c0_g1_i2_3	4	11,1	53,513	27,031	PF00787.23	PX	84,5	4,70E-24	No_clan
TRINITY_DN9217_c0_g1_i2_3	4	11,5	49,532	29,717	PF03839.15	Sec62	48,3	8,30E-13	No_clan
TRINITY_DN11220_c1_g2_i10_1	1	8	20,453	8,8872	PF00106.24	adh_short	115,9	1,40E-33	CL0063
TRINITY_DN7324_c0_g1_i1_3	3	6,1	52,937	16,687	PF00004.28	AAA	133,8	4,50E-39	CL0023
TRINITY_DN8489_c0_g2_i1_1	2	11,7	23,246	12,865	PF00696.27	AA_kinase	69,7	2,60E-19	No_clan
TRINITY_DN9496_c0_g2_i1_6	2	13,5	24,142	17,538					
TRINITY_DN8940_c0_g2_i1_4	2	12,9	22,894	51,084	PF04398.11	DUF538	112,6	1,10E-32	No_clan
TRINITY_DN2829_c0_g1_i1_4	3	9,4	33,352	17,751	PF13419.5	HAD_2	67,1	1,90E-18	CL0137
TRINITY_DN8775_c0_g1_i1_6	2	4,2	52,28	12,031					
TRINITY_DN4667_c0_g1_i2_3	1	11	11,387	6,496	PF01300.17	Sua5_yciO_yrdC	69,8	1,90E-19	No_clan
TRINITY_DN22872_c0_g1_i1_1	2	21,8	11,566	12,496	PF00076.21	RRM_1	35,8	4,80E-09	CL0221

TRINITY_DN19824_c0_g1_i1_3	3	27,8	20,903	41,14	PF00982.20	Glyco_transf_20	118,7	2,50E-34	CL0113
TRINITY_DN9699_c0_g1_i1_4	3	9,7	56,927	21,418	PF13793.5	Pribosyltran_N	25,8	7,60E-06	CL0533
TRINITY_DN3755_c0_g2_i1_3	4	11,8	63,737	27,354	PF00106.24	adh_short	108,7	2,20E-31	CL0063
TRINITY_DN11202_c0_g1_i2_2	2	11,7	23,753	20,635	PF05047.15	L51_S25_CI-B8	50,5	1,40E-13	CL0172
TRINITY_DN6447_c0_g1_i1_4	2	3,6	56,169	12,048	PF01546.27	Peptidase_M20	76,7	1,80E-21	CL0035
TRINITY_DN5808_c0_g1_i1_2	3	9,8	55,731	23,845					
TRINITY_DN10647_c0_g2_i1_5	7	18,9	34,141	23,45	PF02798.19	GST_N	64,1	1,00E-17	CL0172
TRINITY_DN14457_c0_g1_i1_4	1	6,4	20,818	7,7385					
TRINITY_DN7706_c0_g1_i1_3	4	12,3	40,546	-2	PF08071.11	RS4NT	68,9	2,70E-19	No_clan
TRINITY_DN2695_c0_g1_i1_6	2	11,2	30,121	14,255	PF03009.16	GDPD	105,9	2,70E-30	CL0384
TRINITY_DN3350_c0_g1_i1_2	3	32,6	19,255	22,681	PF04043.14	PMEI	84,1	1,20E-23	No_clan
TRINITY_DN11297_c1_g1_i1_2	1	4,5	35,914	7,0138	PF13883.5	Pyrid_oxidase_2	191,6	9,10E-57	CL0336
TRINITY_DN11354_c1_g1_i3_1	3	10,5	48,902	19,866					
TRINITY_DN12695_c0_g2_i1_3	3	11,2	58,284	25,208					
TRINITY_DN12034_c0_g1_i1_1	2	12,1	22,229	16,167	PF13432.5	TPR_16	25,4	1,50E-05	CL0020
TRINITY_DN4302_c0_g1_i1_3	3	6,7	68,111	17,879	PF00759.18	Glyco_hydro_9	449,9	1,10E-134	CL0059
TRINITY_DN18986_c0_g1_i1_2	1	11	10,321	6,3984	PF01842.24	ACT	31,8	8,40E-08	CL0070
TRINITY_DN16321_c0_g1_i1_6	2	29	11,267	12,787					
TRINITY_DN10277_c0_g1_i1_3	5	13,9	48,169	33,132					
TRINITY_DN16791_c0_g1_i1_4	1	17,6	9,3887	7,9169	PF11837.7	DUF3357	42,6	6,20E-11	No_clan
TRINITY_DN7314_c0_g1_i1_1	2	14,3	30,258	15,608	PF05564.11	Auxin_repressed	34,7	2,20E-08	No_clan
TRINITY_DN11345_c0_g1_i1_5	1	7,1	19,859	6,5161	PF06592.12	DUF1138	150,1	1,20E-44	No_clan
TRINITY_DN23429_c0_g1_i1_1	2	35,6	10,091	22,768	PF04811.14	Sec23_trunk	72,7	3,00E-20	CL0128
TRINITY_DN4338_c0_g2_i1_1	3	10,4	36,637	19,006	PF05879.11	RHD3	176,1	9,30E-52	CL0023
TRINITY_DN13879_c0_g1_i1_4	2	15,6	18,411	13,365	PF04227.11	Indigoidine_A	132,2	2,10E-38	No_clan
TRINITY_DN1790_c0_g1_i1_2	2	28,7	11,333	12,648					
TRINITY_DN5067_c0_g1_i1_3	3	10,7	39,603	20,762	PF00400.31	WD40	32,3	1,10E-07	CL0186
TRINITY_DN9550_c0_g1_i1_3	4	10,7	47,072	23,799	PF00013.28	KH_1	48,4	5,80E-13	CL0007
TRINITY_DN5828_c0_g1_i2_4	2	8,3	40,644	15,074	PF03357.20	Snf7	140	5,40E-41	CL0235
TRINITY_DN20109_c0_g1_i1_4	1	9,1	12,023	6,7699	PF00699.19	Urease_beta	114,5	1,60E-33	No_clan
TRINITY_DN11375_c0_g1_i1_1	2	14	21,172	16,414	PF00166.20	Cpn10	56,3	2,30E-15	CL0296
TRINITY_DN4236_c0_g1_i1_1	3	30,9	14,825	17,796					
TRINITY_DN4156_c0_g1_i1_1	2	18,7	12,157	47,293	PF00076.21	RRM_1	32,9	3,80E-08	CL0221

TRINITY_DN11786_c0_g1_i1_3	3	17	19,882	17,706	PF00012.19	HSP70	32,3	2,90E-08	CL0108
TRINITY_DN15397_c0_g1_i1_3	2	20,8	8,4155	11,689	PF00696.27	AA_kinase	58,6	6,20E-16	No_clan
TRINITY_DN5555_c0_g1_i2_1	3	7,9	64,694	23,876	PF00501.27	AMP-binding	346,3	1,80E-103	CL0378
TRINITY_DN6669_c0_g2_i2_2	3	18,5	28,704	19,841					
TRINITY_DN5818_c0_g1_i1_3	2	12,9	29,165	12,962	PF00291.24	PALP	136,6	1,10E-39	No_clan
TRINITY_DN10622_c0_g1_i3_1	4	7,7	84,546	29,319	PF00013.28	KH_1	39,9	2,60E-10	CL0007
TRINITY_DN6444_c0_g1_i1_1	1	4,5	28,681	6,4668					
TRINITY_DN8167_c0_g1_i2_2	1	2,7	60,45	19,528	PF00076.21	RRM_1	49,6	2,40E-13	CL0221
TRINITY_DN10005_c0_g1_i2_3	2	17,1	13,76	12,148	PF00076.21	RRM_1	59,7	1,70E-16	CL0221
TRINITY_DN18506_c0_g1_i1_1	3	46,7	13,843	29,264	PF02330.15	MAM33	101,2	6,80E-29	No_clan
TRINITY_DN9802_c0_g1_i3_2	4	16,3	27,054	23,572	PF01095.18	Pectinesterase	90,5	7,30E-26	CL0268
TRINITY_DN11201_c1_g1_i1_2	2	6,4	50,963	18,303	PF02544.15	Steroid_dh	94,7	4,70E-27	CL0115
TRINITY_DN2574_c0_g1_i1_2	1	4,8	22,191	6,9985	PF02485.20	Branch	39,2	5,00E-10	CL0110
TRINITY_DN2926_c0_g2_i1_1	4	39,7	12,961	22,438	PF01450.18	IlvC	82,1	4,20E-23	CL0106
TRINITY_DN1172_c0_g1_i1_3	2	28,7	12,135	21,882	PF00069.24	Pkinase	105,1	3,50E-30	CL0016
TRINITY_DN15441_c0_g1_i1_4	1	12,8	21,719	8,964					
TRINITY_DN2072_c0_g1_i1_5	2	27,3	21,817	19,58	PF08282.11	Hydrolase_3	22,6	7,10E-05	CL0137
TRINITY_DN11308_c0_g1_i1_4	2	6,1	26,52	14,128	PF02966.15	DIM1	222,3	1,30E-66	CL0172
TRINITY_DN11604_c0_g1_i4_3	3	14,2	35,529	14,429	PF08241.11	Methyltransf_11	38,2	1,50E-09	CL0063
TRINITY_DN6973_c0_g1_i2_3	3	9	56,176	25,721	PF01553.20	Acyltransferase	59,1	3,20E-16	CL0228
TRINITY_DN19024_c0_g1_i1_1	1	6	25,944	9,6666					
TRINITY_DN8174_c0_g1_i1_3	1	6,8	39,752	27,747					
TRINITY_DN6495_c0_g1_i1_1	4	21,8	38,454	30,692	PF00156.26	Pribosyltran	35,7	5,30E-09	CL0533
TRINITY_DN14955_c0_g1_i1_1	2	28,4	8,5637	11,028					
TRINITY_DN5794_c0_g1_i3_3	3	8,2	47,649	20,884	PF00483.22	NTP_transferase	95	5,00E-27	CL0110
TRINITY_DN5657_c0_g1_i1_3	4	11,5	37,722	32,136	PF01997.15	Translin	166,4	7,60E-49	No_clan
TRINITY_DN20134_c0_g1_i1_2	1	10,1	10,546	6,7699					
TRINITY_DN5823_c1_g1_i1_3	2	23,9	7,7539	11,924					
TRINITY_DN10611_c0_g2_i1_3	4	11,7	55,757	24,529	PF05577.11	Peptidase_S28	257,3	2,20E-76	CL0028
TRINITY_DN8028_c1_g2_i2_1	2	11,9	26,242	15,138					
TRINITY_DN20414_c0_g1_i1_1	1	11,5	17,328	25,907					
TRINITY_DN18416_c0_g1_i1_1	3	9,9	36,017	20,477	PF14523.5	Syntaxin_2	77,5	7,30E-22	CL0445
TRINITY_DN5396_c0_g2_i1_1	1	12,4	20,602	40,854	PF00515.27	TPR_1	28,1	1,10E-06	CL0020

TRINITY_DN4301_c0_g1_i1_1	4	15,4	32,795	24,676	PF12799.6	LRR_4	36,9	2,90E-09	CL0022
TRINITY_DN6535_c0_g1_i1_1	2	10,6	23,744	11,837	PF00271.30	Helicase_C	107,5	4,30E-31	CL0023
TRINITY_DN5580_c0_g1_i1_4	4	14,6	52,027	29,685	PF14604.5	SH3_9	41,2	9,80E-11	CL0010
TRINITY_DN10847_c0_g1_i3_3	2	20,7	19,711	11,087	PF01217.19	Clat_adaptor_s	66	3,10E-18	CL0212
TRINITY_DN14525_c0_g1_i1_6	2	14,3	22,332	12,755	PF01370.20	Epimerase	24,9	1,20E-05	CL0063
TRINITY_DN10966_c1_g1_i1_2	1	4,2	36,059	7,7462	PF03484.14	B5	35,4	8,90E-09	No_clan
TRINITY_DN12386_c0_g1_i1_4	4	11,7	45,491	24,836	PF06414.11	Zeta_toxin	58	6,90E-16	CL0023
TRINITY_DN3579_c0_g1_i1_4	1	10,5	13,145	8,48	PF03061.21	4HBT	43,1	3,70E-11	CL0050
TRINITY_DN19791_c0_g1_i1_5	2	17,2	12,802	12,51	PF04053.13	Coatomer_WDAD	87	1,30E-24	CL0186
TRINITY_DN10085_c0_g1_i1_3	3	8,4	60,82	29,175	PF12796.6	Ank_2	33,5	4,40E-08	CL0465
TRINITY_DN5782_c0_g1_i1_1	1	5,8	21,024	7,4081	PF02943.14	FeThRed_B	138,2	8,50E-41	No_clan
TRINITY_DN13590_c0_g1_i1_3	3	13,7	26,582	16,456					
TRINITY_DN1136_c0_g2_i1_1	1	7,1	28,076	6,6922	PF04871.12	Uso1_p115_C	107,6	4,90E-31	No_clan
TRINITY_DN9839_c0_g1_i1_1	2	3,2	94,196	13,118	PF00005.26	ABC_tran	68,4	8,30E-19	CL0023
TRINITY_DN3828_c0_g1_i2_1	1	7,7	26,256	9,4052	PF01012.20	ETF	46,2	4,20E-12	CL0039
TRINITY_DN800_c0_g1_i1_1	2	21,4	12,286	14,955	PF00342.18	PGI	31,5	6,50E-08	CL0067
TRINITY_DN10682_c0_g1_i2_5	2	6,2	53,634	13,593	PF07063.12	DUF1338	267,7	1,20E-79	No_clan
TRINITY_DN11406_c0_g2_i1_5	2	4,3	56,104	15,016	PF00481.20	PP2C	42,4	5,70E-11	CL0238
TRINITY_DN9265_c0_g1_i1_4	2	10,9	26,545	14,44	PF00076.21	RRM_1	50,7	1,10E-13	CL0221
TRINITY_DN3622_c0_g1_i1_2	4	11,1	59,04	22,539	PF01179.19	Cu_amine_oxid	516,2	5,50E-155	No_clan
TRINITY_DN4087_c0_g2_i1_1	3	20,6	27,221	19,842	PF01593.23	Amino_oxidase	83,2	2,20E-23	CL0063
TRINITY_DN10280_c0_g2_i1_3	1	6,6	21,088	7,5686	PF09446.9	VMA21	72,5	2,00E-20	No_clan
TRINITY_DN17659_c0_g1_i1_1	2	15,1	10,326	16,519	PF00920.20	ILVD_EDD	82	3,40E-23	No_clan
TRINITY_DN391_c0_g2_i1_3	2	13,5	22,992	29,521	PF08324.10	PUL	82,2	3,20E-23	No_clan
TRINITY_DN18625_c0_g1_i1_3	1	5,8	18,462	-2					
TRINITY_DN15558_c0_g1_i1_3	2	16,2	19,414	11,246	PF05879.11	RHD3	224,9	1,60E-66	CL0023
TRINITY_DN8990_c0_g1_i6_4	2	9	34,623	11,811	PF01256.16	Carb_kinase	86,8	1,40E-24	CL0118
TRINITY_DN9713_c0_g1_i1_2	3	8,1	63,33	18,462	PF14559.5	TPR_19	26,3	7,60E-06	CL0020
TRINITY_DN4_c0_g2_i1_2	2	32,4	8,0491	12,175	PF00637.19	Clathrin	42,3	5,90E-11	CL0020
TRINITY_DN3956_c0_g2_i1_1	2	13,4	19,36	12,924					
TRINITY_DN2951_c0_g1_i1_3	2	13,8	17,345	12,618	PF10780.8	MRP_L53	53,2	2,30E-14	No_clan
TRINITY_DN8715_c0_g1_i2_3	3	13,1	27,613	16,932	PF04051.15	TRAPP	124,5	2,50E-36	CL0210
TRINITY_DN11521_c0_g3_i1_1	1	11,5	11,542	7,5759	PF07541.11	EIF_2_alpha	102,7	1,20E-29	No_clan

TRINITY_DN7431_c0_g1_i1_3	2	10	31,795	11,657	PF00160.20	Pro_isomerase	114,2	6,10E-33	CL0475
TRINITY_DN20738_c0_g1_i1_3	2	47,2	9,1544	13,935	PF00501.27	AMP-binding	58,5	4,00E-16	CL0378
TRINITY_DN11007_c0_g1_i2_1	3	7,1	62,711	45,505	PF00275.19	EPSP_synthase	482,6	7,90E-145	CL0290
TRINITY_DN18675_c0_g1_i1_5	3	20,1	18,548	24,369	PF03031.17	NIF	55,3	5,80E-15	CL0137
TRINITY_DN4569_c0_g1_i2_2	2	10,9	28,553	12,981	PF05383.16	La	78,6	2,50E-22	CL0123
TRINITY_DN4303_c0_g1_i1_5	3	16,9	25,803	17,544	PF00118.23	Cpn60_TCP1	129,4	1,40E-37	No_clan
TRINITY_DN11099_c0_g1_i3_2	2	7,3	42,645	15,193	PF10058.8	zinc_ribbon_10	68,4	3,00E-19	CL0167
TRINITY_DN5386_c0_g1_i1_2	2	11,4	41,315	16,171	PF02883.19	Alpha_adaptinC2	106	1,20E-30	CL0159
TRINITY_DN3521_c0_g1_i1_6	5	21	43,119	30,8	PF04012.11	PspA_IM30	181,7	1,30E-53	CL0235
TRINITY_DN13705_c0_g1_i1_5	1	5,9	35,36	31,726					
TRINITY_DN3201_c0_g1_i1_6	2	3,9	62,843	17,433	PF13850.5	ERGIC_N	104,1	3,50E-30	No_clan
TRINITY_DN9124_c0_g4_i1_6	2	6,1	47,527	14,044	PF04548.15	AIG1	274,8	3,30E-82	CL0023
TRINITY_DN10878_c0_g1_i1_2	4	9,7	85,718	25,695	PF03141.15	Methyltransf_29	764,5	4,00E-230	CL0063
TRINITY_DN8588_c0_g1_i3_2	3	13,8	34,267	12,992	PF00632.24	HECT	278,9	5,20E-83	CL0552
TRINITY_DN8864_c0_g1_i1_1	2	9,8	29,455	14,716	PF00561.19	Abhydrolase_1	30,2	3,10E-07	CL0028
TRINITY_DN18025_c0_g1_i1_5	1	9,3	16,774	14,731	PF02953.14	zf-Tim10_DDP	88,4	1,70E-25	No_clan
TRINITY_DN15533_c0_g1_i1_2	4	22	23,205	24,742	PF00350.22	Dynamin_N	53,4	2,80E-14	CL0023
TRINITY_DN17372_c0_g1_i1_4	2	9,4	44,226	18,093	PF00294.23	PfkB	199,4	7,20E-59	CL0118
TRINITY_DN10448_c0_g1_i2_3	3	8,4	72,536	28,995	PF04258.12	Peptidase_A22B	273,1	2,70E-81	CL0130
TRINITY_DN2556_c0_g1_i2_1	3	10,3	55,696	17,943	PF00226.30	DnaJ	94,2	3,40E-27	CL0392
TRINITY_DN11115_c0_g1_i1_2	1	3	52,68	15,034	PF05637.11	Glyco_transf_34	245,5	5,60E-73	CL0110
TRINITY_DN6126_c0_g1_i2_6	2	9,3	41,986	12,967	PF01398.20	JAB	71,9	3,90E-20	CL0366
TRINITY_DN18060_c0_g1_i1_4	2	14,4	19,503	6,7521	PF00248.20	Aldo_ket_red	174,1	3,20E-51	No_clan
TRINITY_DN8332_c0_g1_i1_1	2	11,6	23,793	11,518	PF13015.5	PRKCSH_1	100,3	7,60E-29	CL0226
TRINITY_DN7043_c0_g3_i1_3	4	13,9	41,699	26,092	PF00596.20	Aldolase_II	133,7	6,50E-39	No_clan
TRINITY_DN15047_c0_g1_i1_2	1	8,6	17,152	7,7072	PF02630.13	SCO1-SenC	108,6	2,70E-31	CL0172
TRINITY_DN4679_c0_g1_i1_4	2	14,8	30,318	24,276					
TRINITY_DN5533_c1_g1_i1_2	2	11	25,292	13,091	PF08172.11	CASP_C	190,7	2,50E-56	No_clan
TRINITY_DN3362_c0_g1_i1_3	2	19	15,236	13,163	PF02774.17	Semialdhyde_dhC	26,4	5,80E-06	CL0139
TRINITY_DN11453_c1_g2_i1_1	3	4,3	90,528	20,563	PF00005.26	ABC_tran	86,8	1,60E-24	CL0023
TRINITY_DN21448_c0_g1_i1_2	2	35,6	9,0685	11,822	PF03759.12	PRONE	78,2	4,60E-22	No_clan
TRINITY_DN4482_c0_g1_i2_6	2	14,1	18,729	14,074	PF04099.11	Sybindin	79,7	1,90E-22	CL0212
TRINITY_DN3062_c1_g1_i1_5	2	37,1	14,109	30,6	PF03071.14	GNT-I	187,4	3,50E-55	CL0110

TRINITY_DN21074_c0_g1_i1_5	2	46,1	8,4204	44,082					
TRINITY_DN6202_c0_g1_i1_4	3	37,3	16,731	20,266	PF00076.21	RRM_1	70,2	9,20E-20	CL0221
TRINITY_DN9665_c1_g1_i2_1	2	11,5	27,722	12,445	PF01842.24	ACT	34,1	1,60E-08	CL0070
TRINITY_DN23089_c0_g1_i1_2	1	13	7,5043	6,7736					
TRINITY_DN4752_c0_g1_i1_6	3	7,7	47,022	17,798	PF00085.19	Thioredoxin	87,4	4,90E-25	CL0172
TRINITY_DN6323_c0_g1_i1_4	1	2,2	40,605	-2	PF01650.17	Peptidase_C13	150,4	6,10E-44	CL0093
TRINITY_DN7547_c0_g1_i1_2	5	30,8	23,001	-2	PF03953.16	Tubulin_C	104,4	4,50E-30	CL0442
TRINITY_DN11503_c0_g1_i5_1	2	8	32,335	6,6263	PF07859.12	Abhydrolase_3	154,6	2,90E-45	CL0028
TRINITY_DN6410_c0_g2_i1_3	3	13,6	25,911	6,496	PF01246.19	Ribosomal_L24e	101,4	2,20E-29	CL0175
TRINITY_DN17585_c0_g1_i1_4	2	7,9	39,286	13,138	PF02114.15	Phosducin	58,5	4,30E-16	CL0172
TRINITY_DN7272_c0_g1_i2_2	3	20,9	22,929	21,03	PF08662.10	eIF2A	76,2	2,70E-21	CL0186
TRINITY_DN8313_c0_g1_i1_1	1	23,9	12,368	15,713					
TRINITY_DN10899_c1_g1_i9_2	3	16,5	24,497	12,224	PF05529.11	Bap31	45,4	6,20E-12	No_clan
TRINITY_DN10964_c0_g2_i1_1	1	8,7	10,475	6,3861	PF00831.22	Ribosomal_L29	52,1	4,30E-14	CL0346
TRINITY_DN5766_c0_g1_i1_2	3	10,2	37,137	20,531	PF05739.18	SNARE	43,1	3,00E-11	No_clan
TRINITY_DN16709_c0_g1_i1_5	2	25,9	8,6728	14,671	PF00731.19	AIRC	66,9	1,30E-18	No_clan
TRINITY_DN20234_c0_g1_i1_2	2	43,3	10,427	12,569					
TRINITY_DN13627_c0_g1_i1_4	3	18,7	23,856	19,357	PF04136.14	Sec34	161,3	1,30E-47	No_clan
TRINITY_DN22360_c0_g1_i1_5	1	11	11,677	7,2364					
TRINITY_DN5465_c0_g1_i1_6	1	7,4	15,032	6,4652	PF05768.13	DUF836	61,6	6,70E-17	CL0172
TRINITY_DN14137_c1_g1_i1_2	1	13	13,26	7,0607	PF01593.23	Amino_oxidase	55	7,90E-15	CL0063
TRINITY_DN4218_c0_g1_i1_3	2	11,4	28,6	6,4331	PF00291.24	PALP	81,3	7,50E-23	No_clan
TRINITY_DN405_c0_g2_i1_3	2	10,1	35,714	15,129					
TRINITY_DN2745_c0_g1_i1_1	2	13	21,776	10,884	PF05368.12	NmrA	114,9	3,80E-33	CL0063
TRINITY_DN15009_c0_g1_i1_3	2	10,2	26,208	11,447	PF02548.14	Pantoate_transf	240,5	1,80E-71	CL0151
TRINITY_DN20316_c0_g1_i1_4	1	10,1	13,575	7,1898					
TRINITY_DN11294_c0_g1_i2_1	2	8,2	50,723	30,927	PF04177.11	TAP42	279,7	2,70E-83	No_clan
TRINITY_DN19054_c0_g1_i1_3	3	17,1	25,656	18,916	PF13414.5	TPR_11	41,5	7,40E-11	CL0020
TRINITY_DN4034_c0_g2_i1_6	2	15,8	19,118	13,073	PF02151.18	UVR	22,1	8,30E-05	No_clan
TRINITY_DN12290_c0_g1_i1_4	1	5,7	26,797	9,6831	PF00696.27	AA_kinase	101,3	5,90E-29	No_clan
TRINITY_DN21049_c0_g1_i1_5	1	14,9	10,551	9,808	PF05938.10	Self-incomp_S1	61,1	1,10E-16	No_clan
TRINITY_DN10192_c0_g2_i2_4	1	3,1	47,251	6,4022	PF13409.5	GST_N_2	69,3	2,30E-19	CL0172
TRINITY_DN5313_c0_g1_i1_6	3	10,5	38,502	20,552					

TRINITY_DN1722_c0_g1_i1_6	1	9,3	11,636	81,108					
TRINITY_DN594_c0_g1_i1_2	3	12,7	33,707	18,549	PF02781.15	G6PD_C	336,4	1,20E-100	No_clan
TRINITY_DN14750_c0_g1_i1_3	2	24,4	10,636	12,46	PF02897.14	Peptidase_S9_N	95,8	2,30E-27	CL0186
TRINITY_DN10152_c0_g1_i1_3	1	5,7	18,36	6,4522					
TRINITY_DN7940_c0_g1_i2_6	2	9,4	22,036	10,872	PF00168.29	C2	50,9	1,40E-13	CL0154
TRINITY_DN3239_c0_g2_i1_3	1	10,9	16,464	10,04	PF00690.25	Cation_ATPase_N	67,8	4,60E-19	No_clan
TRINITY_DN4761_c0_g1_i1_3	2	7,2	37,86	34,962	PF05903.13	Peptidase_C97	152,6	6,20E-45	CL0125
TRINITY_DN8530_c0_g1_i3_3	3	23,8	27,842	19,537	PF08553.9	VID27	113	1,50E-32	No_clan
TRINITY_DN16028_c0_g1_i1_6	3	20,5	18,871	20,27					
TRINITY_DN515_c0_g1_i1_1	1	18,6	10,253	12,884	PF00692.18	dUTPase	62,8	2,30E-17	CL0153
TRINITY_DN9271_c0_g1_i2_1	3	30,1	15,288	-2	PF06521.10	PAR1	219,7	1,30E-65	No_clan
TRINITY_DN9769_c0_g1_i2_3	5	14,8	62,137	30,053					
TRINITY_DN17789_c0_g1_i1_2	3	6,2	48,258	12,206	PF00160.20	Pro_isomerase	141,9	1,90E-41	CL0475
TRINITY_DN17147_c0_g3_i1_3	1	4,4	26,904	7,6365	PF00383.22	dCMP_cyt_deam_1	83,7	6,10E-24	CL0109
TRINITY_DN18723_c0_g1_i1_3	2	28,2	16,765	13,253	PF01459.21	Porin_3	119,6	1,50E-34	CL0193
TRINITY_DN13968_c0_g1_i1_1	4	10,5	60,191	27,653					
TRINITY_DN1050_c0_g1_i1_3	4	18,3	36,668	27,026	PF00004.28	AAA	148,5	1,30E-43	CL0023
TRINITY_DN630_c0_g1_i2_2	2	8,8	29,15	11,243					
TRINITY_DN10963_c0_g1_i1_3	3	14,6	38,088	24,871	PF12838.6	Fer4_7	48,6	8,70E-13	CL0344
TRINITY_DN10629_c0_g1_i1_1	2	11,2	30,047	25,343	PF00255.18	GSHPx	136,9	1,60E-40	CL0172
TRINITY_DN2614_c0_g1_i1_5	4	13,4	46,152	35,195	PF08264.12	Anticodon_1	124,2	4,00E-36	CL0258
TRINITY_DN11634_c0_g1_i3_1	3	7,7	68,521	17,498	PF08156.12	NOP5NT	69,3	2,50E-19	No_clan
TRINITY_DN10531_c0_g2_i1_3	2	7,4	39,839	12,651	PF02492.18	cobW	109,2	1,50E-31	CL0023
TRINITY_DN2332_c0_g1_i1_2	3	5,9	71,914	18,517	PF00291.24	PALP	274,3	1,20E-81	No_clan
TRINITY_DN17272_c0_g1_i1_3	3	9,3	59,741	18,775	PF00852.18	Glyco_transf_10	113,7	7,10E-33	CL0113
TRINITY_DN6275_c0_g2_i2_1	3	19,9	33,819	19,012	PF14523.5	Syntaxin_2	92,5	1,60E-26	CL0445
TRINITY_DN7918_c1_g1_i1_2	2	10,6	35,145	7,8331	PF00255.18	GSHPx	144,5	7,10E-43	CL0172
TRINITY_DN10401_c0_g1_i2_1	5	20,7	35,386	12,604	PF00071.21	Ras	184,4	1,10E-54	CL0023
TRINITY_DN6828_c0_g1_i1_3	2	9	37,112	34,189	PF02020.17	W2	79,7	1,20E-22	CL0020
TRINITY_DN3006_c0_g1_i2_2	4	8,1	68,053	24,498	PF00888.21	Cullin	534	5,00E-160	No_clan
TRINITY_DN11284_c0_g1_i1_2	1	23,4	7,8732	9,8089					
TRINITY_DN7192_c0_g1_i1_3	3	12,4	41,111	20,135	PF13883.5	Pyrid_oxidase_2	64,3	1,20E-17	CL0336

TRINITY_DN8534_c0_g1_i2_3	3	11,2	42,638	19,198	PF01915.21	Glyco_hydro_3_C	141,6	3,00E-41	No_clan
TRINITY_DN7045_c0_g1_i2_1	3	10,1	33,854	20,686					
TRINITY_DN7890_c0_g1_i3_3	2	8,4	32,206	11,714	PF13561.5	adh_short_C2	128,6	2,50E-37	CL0063
TRINITY_DN11617_c0_g1_i1_3	3	7,7	64,285	17,29	PF00155.20	Aminotran_1_2	115,8	2,30E-33	CL0061
TRINITY_DN15269_c0_g1_i1_3	2	22,2	15,532	16,285	PF00675.19	Peptidase_M16	35,1	1,10E-08	CL0094
TRINITY_DN10161_c0_g1_i1_2	1	2,7	41,412	6,4948	PF01063.18	Aminotran_4	126,7	1,10E-36	No_clan
TRINITY_DN819_c0_g1_i1_5	2	14,2	19,575	10,675	PF00155.20	Aminotran_1_2	134,5	4,80E-39	CL0061
TRINITY_DN13462_c0_g1_i1_3	3	25,2	15,398	18,383	PF04176.12	TIP41	63,3	1,80E-17	No_clan
TRINITY_DN4339_c0_g1_i1_1	2	8,7	19,079	11,536					
TRINITY_DN19938_c0_g1_i1_2	1	21,5	8,9191	6,6903					
TRINITY_DN10594_c0_g1_i4_3	2	9,5	26,587	11,127	PF00717.22	Peptidase_S24	42,4	4,50E-11	CL0299
TRINITY_DN7751_c0_g1_i1_3	1	6,9	26,697	17,026	PF00168.29	C2	74	8,90E-21	CL0154
TRINITY_DN9327_c0_g1_i3_2	3	15,2	29,707	22,339	PF12352.7	V-SNARE_C	56,9	1,80E-15	CL0147
TRINITY_DN8047_c0_g1_i1_3	4	12,3	42,389	28,312	PF03357.20	Snf7	154,7	1,60E-45	CL0235
TRINITY_DN10285_c0_g1_i1_1	1	3	36,861	6,7797	PF08212.11	Lipocalin_2	178,1	8,80E-53	CL0116
TRINITY_DN8681_c0_g1_i1_3	2	3,7	64,455	13,739	PF07223.10	DUF1421	82,9	9,00E-24	CL0214
TRINITY_DN5586_c0_g1_i1_1	3	6,8	61,434	20,451	PF13812.5	PPR_3	27,3	2,60E-06	CL0020
TRINITY_DN2976_c0_g1_i1_3	1	4,4	37,965	7,3616	PF07714.16	Pkinase_Tyr	83,8	1,00E-23	CL0016
TRINITY_DN7053_c1_g1_i1_1	2	10,5	24,709	12,359	PF07946.13	DUF1682	157,3	5,00E-46	No_clan
TRINITY_DN9308_c0_g2_i1_6	3	5,1	63,002	11,508	PF01412.17	ArfGap	138,4	9,50E-41	No_clan
TRINITY_DN7166_c0_g1_i1_1	2	13	19,368	13,312	PF02148.18	zf-UBP	59,1	3,70E-16	CL0229
TRINITY_DN17861_c0_g1_i1_6	2	6,6	40,098	14,204	PF00153.26	Mito_carr	43,8	1,70E-11	No_clan
TRINITY_DN23265_c0_g1_i1_1	1	13,8	11,795	10,949	PF04755.11	PAP_fibrillin	56,8	2,70E-15	No_clan
TRINITY_DN11443_c1_g1_i3_3	2	12,6	39,386	12,956	PF00389.29	2-Hacid_dh	53,5	1,80E-14	CL0325
TRINITY_DN9627_c0_g2_i1_1	2	18,3	15,666	13,392					
TRINITY_DN20236_c0_g1_i1_5	1	8,1	13,709	9,0989	PF00583.24	Acetyltransf_1	28,6	1,30E-06	CL0257
TRINITY_DN12747_c0_g1_i1_3	1	11,8	9,3967	6,8816					
TRINITY_DN4648_c0_g1_i1_3	1	12,7	13,579	9,7006	PF00378.19	ECH_1	63,7	1,50E-17	CL0127
TRINITY_DN396_c0_g1_i1_1	1	20,7	12,144	6,6813	PF01645.16	Glu_synthase	178,1	2,70E-52	CL0036
TRINITY_DN3770_c0_g1_i1_3	1	8,2	25,364	11,439	PF12068.7	DUF3548	82,4	3,00E-23	No_clan
TRINITY_DN7965_c1_g1_i1_2	3	14,4	37,5	21,083	PF01704.17	UDPGP	137,2	5,40E-40	CL0110
TRINITY_DN5625_c0_g2_i1_1	2	6,3	41,581	13,49	PF13847.5	Methyltransf_31	67,4	1,10E-18	CL0063
TRINITY_DN9598_c0_g1_i1_1	2	6,7	32,436	11,248	PF00378.19	ECH_1	152,9	8,80E-45	CL0127

TRINITY_DN6936_c0_g1_i1_3	1	2,2	61,487	7,5759	PF01490.17	Aa_trans	349,5	2,00E-104	CL0062
TRINITY_DN22611_c0_g1_i1_5	1	22,1	7,6036	13,312	PF01749.19	IBB	25	1,70E-05	CL0020
TRINITY_DN4497_c1_g1_i1_1	4	46,9	11,065	6,9707	PF00240.22	ubiquitin	28,1	1,20E-06	CL0072
TRINITY_DN16255_c0_g2_i1_1	1	3,5	32,901	6,9846	PF03981.11	Ubiq_cyt_C_chap	119,9	7,90E-35	No_clan
TRINITY_DN3029_c0_g2_i1_3	2	14,5	19,621	12,291	PF03767.13	Acid_phosphat_B	56,2	3,30E-15	CL0137
TRINITY_DN7010_c0_g2_i2_5	5	22	26,563	6,4948	PF00297.21	Ribosomal_L3	287,1	1,70E-85	CL0575
TRINITY_DN8504_c0_g1_i1_2	2	21,7	16,603	13,716					
TRINITY_DN3130_c0_g2_i2_1	3	6,7	55,371	20,229	PF10509.8	GalKase_gal_bdg	29,3	4,20E-07	CL0329
TRINITY_DN13283_c0_g1_i1_5	2	26,9	10,277	13,405	PF01074.21	Glyco_hydro_38	49,1	4,40E-13	CL0158
TRINITY_DN3329_c0_g1_i1_6	1	7,1	22,388	7,8307	PF00013.28	KH_1	67,3	7,10E-19	CL0007
TRINITY_DN10602_c1_g1_i2_3	1	7,3	17,983	6,4615	PF05365.11	UCR_UQCRX_QCR9	69,7	1,40E-19	No_clan
TRINITY_DN5356_c0_g1_i1_3	1	3	68,601	6,696	PF00069.24	Pkinase	222,2	7,00E-66	CL0016
TRINITY_DN8024_c0_g1_i1_1	1	6,3	27,343	7,3437	PF05071.15	NDUFA12	87,1	1,00E-24	No_clan
TRINITY_DN9300_c0_g1_i1_5	3	6,3	65,14	18,844	PF08911.10	NUP50	61,1	1,10E-16	No_clan
TRINITY_DN9177_c0_g3_i1_3	7	22,4	43,203	13,739	PF07718.11	Coatamer_beta_C	204,7	4,60E-61	CL0159
TRINITY_DN14061_c0_g1_i1_4	3	25	14,943	18,697	PF14226.5	DIOX_N	86,7	1,80E-24	CL0029
TRINITY_DN8441_c0_g2_i2_3	3	5,7	62,698	19,315	PF00789.19	UBX	61,3	7,00E-17	CL0072
TRINITY_DN7456_c0_g2_i1_3	2	7,5	51,716	15,422	PF00483.22	NTP_transferase	177,3	3,50E-52	CL0110
TRINITY_DN4946_c0_g2_i1_3	2	5,9	53,132	12,151	PF04715.12	Anth_synt_I_N	60,9	1,40E-16	No_clan
TRINITY_DN18912_c0_g1_i1_2	2	9,5	39,012	12,102	PF00069.24	Pkinase	214,5	1,50E-63	CL0016
TRINITY_DN12766_c0_g1_i1_5	3	33,1	14,491	21,619					
TRINITY_DN4468_c0_g1_i1_6	3	10,8	54,5	22,846	PF00899.20	ThiF	86,3	1,90E-24	CL0063
TRINITY_DN12470_c0_g1_i1_3	2	7,3	35,61	12,001	PF00686.18	CBM_20	58,6	4,00E-16	CL0369
TRINITY_DN10609_c0_g1_i2_2	2	4,4	65,803	11,736	PF00067.21	p450	211,4	1,90E-62	No_clan
TRINITY_DN11550_c0_g1_i3_3	2	6,5	44,603	13,661	PF00795.21	CN_hydrolase	184,6	1,90E-54	No_clan
TRINITY_DN18034_c0_g1_i1_3	1	12,8	8,8452	6,4446					
TRINITY_DN10769_c0_g1_i1_1	1	4,2	40,783	12,288	PF03878.14	YIF1	197,6	2,10E-58	CL0112
TRINITY_DN11604_c0_g1_i8_1	5	47,6	19,162	6,6489	PF08241.11	Methyltransf_11	23,5	6,00E-05	CL0063
TRINITY_DN11302_c0_g1_i2_1	2	6	68,366	15,473	PF16656.4	Pur_ac_phosph_N	84,1	7,20E-24	CL0159
TRINITY_DN12632_c0_g1_i1_3	2	21,3	18,156	22,949	PF13489.5	Methyltransf_23	68,2	6,60E-19	CL0063
TRINITY_DN9378_c0_g1_i4_2	3	5,6	74,884	17,8	PF17047.4	SMP_LBD	62,4	3,40E-17	CL0648
TRINITY_DN9423_c0_g2_i1_4	3	18,2	20,933	17,91					

TRINITY_DN7649_c0_g1_i2_4	1	5,7	22,559	7,0181	PF04061.13	ORMDL	156,5	2,90E-46	No_clan
TRINITY_DN18448_c0_g1_i1_3	1	10,9	11,507	7,3536	PF01553.20	Acyltransferase	23,2	4,00E-05	CL0228
TRINITY_DN11658_c0_g1_i3_3	3	3,5	129,45	21,816	PF12515.7	CaATP_NAI	62,8	1,50E-17	No_clan
TRINITY_DN18880_c0_g1_i1_1	2	26,8	13,915	11,729	PF05879.11	RHD3	98,7	2,30E-28	CL0023
TRINITY_DN10400_c0_g1_i3_1	3	8	72,498	25,842	PF08156.12	NOP5NT	66,7	1,60E-18	No_clan
TRINITY_DN1374_c0_g1_i1_1	2	10,8	18,751	6,3861					
TRINITY_DN3233_c0_g1_i1_1	4	20,6	24,634	21,704	PF00160.20	Pro_isomerase	138,4	2,20E-40	CL0475
TRINITY_DN16037_c0_g1_i1_6	1	13,5	10,783	6,9537					
TRINITY_DN4496_c0_g1_i1_6	3	20,3	17,991	18,025	PF00342.18	PGI	69,2	2,40E-19	CL0067
TRINITY_DN3498_c0_g1_i1_3	7	20,2	39,675	13,31	PF00557.23	Peptidase_M24	73,7	1,50E-20	No_clan
TRINITY_DN8015_c0_g2_i1_1	2	5,5	51,589	12,236	PF00155.20	Aminotran_1_2	170,1	7,00E-50	CL0061
TRINITY_DN8457_c0_g1_i2_3	1	6,1	30,093	6,7628					
TRINITY_DN8936_c0_g2_i1_3	1	14	12,54	6,834					
TRINITY_DN4836_c0_g2_i2_1	2	7,7	54,621	16,028	PF02929.16	Bgal_small_N	258,4	6,10E-77	CL0103
TRINITY_DN4305_c0_g1_i1_2	2	11,3	28,232	19,631	PF01521.19	Fe-S_biosyn	48,9	5,70E-13	No_clan
TRINITY_DN912_c0_g1_i1_3	2	10,1	25,155	104,69					
TRINITY_DN2769_c0_g1_i1_2	1	2,6	56,369	7,0983	PF00995.22	Sec1	359,5	4,70E-107	No_clan
TRINITY_DN7152_c0_g1_i2_3	2	9,5	35,787	15,509					
TRINITY_DN7966_c1_g1_i1_1	2	17,6	17,516	14,342					
TRINITY_DN4959_c0_g1_i1_6	1	10,6	9,7869	7,3545					
TRINITY_DN11436_c0_g1_i3_2	4	13,4	51,869	18,422	PF02874.22	ATP-synt_ab_N	42,9	5,00E-11	CL0275
TRINITY_DN6999_c0_g1_i1_5	2	12	22,837	13,052					
TRINITY_DN19644_c0_g1_i1_5	1	10,5	16,713	-2					
TRINITY_DN12673_c0_g1_i1_2	1	14,4	12,688	8,1351	PF00481.20	PP2C	89,6	2,40E-25	CL0238
TRINITY_DN10039_c0_g1_i2_2	1	6,6	24,893	7,273					
TRINITY_DN6311_c0_g1_i1_1	3	11,6	27,421	12,725	PF00224.20	PK	147,1	5,50E-43	CL0151
TRINITY_DN19028_c0_g1_i1_2	1	13,6	8,9972	7,3459	PF00349.20	Hexokinase_1	96,2	2,30E-27	CL0108
TRINITY_DN10956_c0_g1_i2_3	3	5,4	64,64	18,912	PF01154.16	HMG_CoA_synt_N	268,3	2,60E-80	CL0046
TRINITY_DN10484_c2_g1_i1_1	3	8,1	37,089	38,985	PF13774.5	Longin	74,3	5,40E-21	No_clan
TRINITY_DN17185_c0_g1_i1_2	1	5	27,113	7,1508	PF00254.27	FKBP_C	79,5	1,60E-22	CL0487
TRINITY_DN11454_c0_g1_i2_6	2	9,4	39,032	12,68	PF01105.23	EMP24_GP25L	106,6	1,30E-30	CL0521
TRINITY_DN588_c0_g1_i1_4	1	24,3	11,616	6,6783	PF01417.19	ENTH	64,6	7,90E-18	CL0009
TRINITY_DN12701_c0_g1_i1_3	3	16,2	20,918	17,979	PF00534.19	Glycos_transf_1	108	3,60E-31	CL0113

TRINITY_DN7373_c0_g2_i1_3	4	10,5	50,864	24,31					
TRINITY_DN11305_c0_g1_i2_2	2	8	47,482	17,796	PF00179.25	UQ_con	72,1	3,20E-20	CL0208
TRINITY_DN5684_c0_g1_i1_3	3	12,3	40,45	18,196	PF14681.5	UPRTase	231	8,50E-69	CL0533
TRINITY_DN864_c0_g1_i1_1	2	8,7	52,833	14,588	PF04280.14	Tim44	117,7	4,10E-34	CL0051
TRINITY_DN4602_c0_g1_i1_1	1	3	49,765	7,7685	PF01399.26	PCI	66	3,40E-18	CL0123
TRINITY_DN10884_c0_g1_i1_3	2	7,5	39,515	14,198	PF00106.24	adh_short	84,5	5,90E-24	CL0063
TRINITY_DN14631_c0_g1_i1_2	1	12	10,247	6,3439	PF01789.15	PsbP	62,3	5,30E-17	CL0619
TRINITY_DN10399_c0_g1_i1_1	1	3,6	40,847	7,0735	PF01956.15	DUF106	174,3	1,60E-51	CL0376
TRINITY_DN11619_c0_g2_i6_1	1	3,6	44,629	15,391	PF03169.14	OPT	256,5	5,20E-76	No_clan
TRINITY_DN5247_c0_g2_i1_5	2	3,1	108,38	13,811					
TRINITY_DN2861_c0_g1_i1_2	2	13,4	22,875	12,867	PF00933.20	Glyco_hydro_3	170,8	4,40E-50	CL0058
TRINITY_DN6453_c0_g1_i1_2	3	12,9	43,669	20,819	PF00191.19	Annexin	52,8	2,80E-14	No_clan
TRINITY_DN13293_c0_g1_i1_6	1	9,8	15,233	7,2625					
TRINITY_DN5843_c0_g1_i1_3	3	23,6	29,053	40,616	PF02801.21	Ketoacyl-synt_C	100,4	5,80E-29	CL0046
TRINITY_DN3985_c0_g1_i1_5	2	10,3	27,896	14,17	PF12352.7	V-SNARE_C	45,1	8,70E-12	CL0147
TRINITY_DN5098_c0_g2_i1_2	2	5,4	53,986	13,937	PF01764.24	Lipase_3	118,4	2,10E-34	CL0028
TRINITY_DN6975_c0_g2_i1_1	2	7,3	52,657	12,217	PF01926.22	MMR_HSR1	73,4	1,30E-20	CL0023
TRINITY_DN3955_c0_g1_i1_6	1	4,8	36,117	9,4865					
TRINITY_DN21162_c0_g1_i1_1	1	20,7	9,874	25,853					
TRINITY_DN13980_c0_g1_i1_4	1	6,2	25,604	6,5786	PF00995.22	Sec1	157,7	6,00E-46	No_clan
TRINITY_DN6436_c0_g2_i1_3	7	26,2	34,698	20,662	PF00071.21	Ras	206,3	1,90E-61	CL0023
TRINITY_DN7382_c0_g1_i1_5	2	5,9	55,046	16,538	PF00153.26	Mito_carr	44,4	1,10E-11	No_clan
TRINITY_DN8895_c0_g1_i3_1	3	6,3	47,296	16,222	PF01212.20	Beta_elim_lyase	319,9	1,40E-95	CL0061
TRINITY_DN11523_c0_g1_i1_2	3	9,1	68,328	17,377	PF03055.14	RPE65	409,4	1,80E-122	No_clan
TRINITY_DN6472_c0_g1_i1_3	1	13,9	17,955	12,973					
TRINITY_DN8927_c0_g1_i1_3	4	10	53,707	23,022	PF01399.26	PCI	65,3	5,60E-18	CL0123
TRINITY_DN22235_c0_g1_i1_2	2	22,7	14,609	11,953					
TRINITY_DN22096_c0_g1_i1_6	1	12,3	14,525	9,4491					
TRINITY_DN10384_c0_g1_i1_3	10	26,9	60,604	7,7269	PF00091.24	Tubulin	233,1	2,90E-69	CL0566
TRINITY_DN12671_c0_g1_i1_1	2	4,9	56,61	14,51	PF14555.5	UBA_4	27,1	2,50E-06	CL0214
TRINITY_DN15659_c0_g1_i1_5	2	28,1	9,9162	7,1508	PF00637.19	Clathrin	63,1	2,40E-17	CL0020
TRINITY_DN3596_c0_g1_i1_4	1	14,1	17,24	6,7476	PF00241.19	Cofilin_ADF	103,5	8,10E-30	CL0092
TRINITY_DN8121_c0_g1_i1_3	1	6,5	26,232	7,8509	PF00335.19	Tetraspannin	32	8,90E-08	CL0347

TRINITY_DN20264_c0_g1_i1_2	1	19,7	7,7277	8,0941					
TRINITY_DN18042_c0_g1_i1_3	1	11,7	17,448	6,9313					
TRINITY_DN18961_c0_g1_i1_1	2	24,7	9,8148	11,857	PF09070.10	PFU	104,4	3,60E-30	No_clan
TRINITY_DN3104_c0_g2_i1_5	2	14,2	14,487	12,322	PF00307.30	CH	23,6	4,10E-05	CL0188
TRINITY_DN17865_c0_g1_i1_1	2	10,8	37,5	15,628	PF14492.5	EFG_II	108,9	9,00E-32	CL0437
TRINITY_DN11260_c0_g1_i2_3	3	8,7	52,639	21,769	PF00291.24	PALP	114,8	4,60E-33	No_clan
TRINITY_DN6677_c0_g2_i1_6	2	38,3	8,4584	14,084	PF00280.17	potato_inhibit	86	1,90E-24	CL0367
TRINITY_DN14239_c0_g1_i1_6	1	9,3	16,371	7,122					
TRINITY_DN12081_c0_g1_i1_6	3	6,5	58,724	21,163	PF13540.5	RCC1_2	29,6	4,00E-07	CL0186
TRINITY_DN18664_c0_g1_i1_1	3	23,6	24,302	18,75	PF01012.20	ETF	90,6	9,80E-26	CL0039
TRINITY_DN3353_c0_g1_i1_5	2	21,3	15,532	20,343	PF09127.10	Leuk-A4-hydro_C	99,3	1,20E-28	CL0020
TRINITY_DN13649_c0_g1_i1_6	3	13,8	23,502	21,949	PF00012.19	HSP70	76,9	8,70E-22	CL0108
TRINITY_DN21861_c0_g1_i1_3	1	14,7	12,624	9,6282					
TRINITY_DN22107_c0_g1_i1_1	1	19,8	11,21	8,6931					
TRINITY_DN19998_c0_g1_i1_4	2	35,7	10,931	13,872	PF00682.18	HMGL-like	93,4	1,60E-26	CL0036
TRINITY_DN4490_c0_g2_i2_2	1	4,6	51,561	8,2974	PF01490.17	Aa_trans	160	6,50E-47	CL0062
TRINITY_DN22424_c0_g2_i1_6	3	26,5	19,365	14,615	PF01474.15	DAHP_synth_2	208,3	1,40E-61	CL0036
TRINITY_DN1144_c0_g1_i1_3	2	5,3	48,474	12,444	PF02885.16	Glycos_trans_3N	41,3	9,40E-11	No_clan
TRINITY_DN4661_c0_g1_i3_3	2	11	34,408	12,342	PF00400.31	WD40	16,1	0,015	CL0186
TRINITY_DN3820_c0_g2_i1_3	3	5,6	73,378	17,544	PF01399.26	PCI	64,5	1,00E-17	CL0123
TRINITY_DN10264_c0_g1_i1_2	3	7,3	54,44	12,682	PF00149.27	Metallophos	124,5	7,20E-36	CL0163
TRINITY_DN8158_c0_g1_i1_1	1	5,2	40,731	7,8404	PF01398.20	JAB	93,3	9,20E-27	CL0366
TRINITY_DN9206_c0_g2_i1_1	4	14,7	37,941	26,271	PF01112.17	Asparaginase_2	387,7	3,00E-116	CL0052
TRINITY_DN9226_c0_g1_i2_3	2	5,4	53,442	13,463	PF07712.11	SURNod19	642,4	1,80E-193	No_clan
TRINITY_DN585_c0_g1_i1_6	1	13,8	9,2842	6,4921	PF16363.4	GDP_Man_Dehyd	55	7,70E-15	CL0063
TRINITY_DN21456_c0_g1_i1_2	1	10,7	11,334	7,2517					
TRINITY_DN5447_c0_g2_i1_2	1	3,7	59,135	11,758	PF00076.21	RRM_1	27	2,70E-06	CL0221
TRINITY_DN23101_c0_g1_i1_6	1	11,6	13,207	7,0191					
TRINITY_DN1220_c0_g1_i1_6	4	9,3	49,428	22,645	PF01425.20	Amidase	93,3	1,50E-26	No_clan
TRINITY_DN13227_c0_g1_i1_1	1	16,5	12,326	6,8939	PF11987.7	IF-2	69,9	1,60E-19	No_clan
TRINITY_DN5512_c0_g3_i1_3	1	7	34,645	8,1448					
TRINITY_DN4033_c0_g2_i1_3	1	4,7	33,834	9,741	PF12812.6	PDZ_1	38,8	6,60E-10	CL0466

TRINITY_DN4640_c0_g1_i1_2	2	8,6	29,461	14,313	PF00383.22	dCMP_cyt_deam_1	83,8	5,80E-24	CL0109
TRINITY_DN5850_c0_g1_i1_1	1	10,3	14,988	9,8235					
TRINITY_DN11339_c0_g1_i3_1	1	3	35,998	6,5762	PF01965.23	DJ-1_PfpI	165	1,10E-48	CL0014
TRINITY_DN2739_c0_g1_i1_1	1	6,3	26,244	7,4474	PF04628.12	Sedlin_N	147	3,00E-43	CL0212
TRINITY_DN6721_c1_g1_i1_1	4	43,7	12,698	25,312	PF06068.12	TIP49	123,5	9,10E-36	CL0023
TRINITY_DN7299_c0_g1_i1_1	1	5,2	18,941	6,4894	PF05051.12	COX17	70,1	1,40E-19	CL0351
TRINITY_DN2661_c0_g2_i1_1	2	9,1	49,239	15,326	PF13839.5	PC-Esterase	260,8	1,80E-77	CL0264
TRINITY_DN7083_c0_g2_i2_1	2	6	62,118	14,198	PF01063.18	Aminotran_4	148,6	2,20E-43	No_clan
TRINITY_DN18425_c0_g1_i1_2	1	9,1	12,531	6,3674	PF01031.19	Dynamin_M	82,2	3,40E-23	No_clan
TRINITY_DN11416_c0_g1_i1_3	2	5,7	57,76	18,282					
TRINITY_DN9924_c0_g1_i1_2	2	20,1	14,522	12,589					
TRINITY_DN8093_c0_g1_i1_2	2	6,3	37,947	11,179	PF01467.25	CTP_transf_like	114,7	3,60E-33	CL0039
TRINITY_DN766_c0_g1_i1_2	3	23	16,463	12,97	PF03358.14	FMN_red	46,9	2,20E-12	CL0042
TRINITY_DN10380_c0_g1_i2_1	1	7,6	17,648	7,0453	PF07719.16	TPR_2	30,4	2,20E-07	CL0020
TRINITY_DN2440_c0_g1_i2_2	3	4,7	70,781	18,245	PF01406.18	tRNA-synt_1e	411,4	2,10E-123	CL0039
TRINITY_DN18420_c0_g1_i1_3	1	14,7	15,818	7,3996	PF10408.8	Ufd2P_core	88,9	2,70E-25	No_clan
TRINITY_DN7383_c0_g1_i1_3	1	4,7	34,047	7,0302	PF03357.20	Snf7	123,8	5,00E-36	CL0235
TRINITY_DN14144_c0_g1_i1_6	2	12,5	22,082	13,744					
TRINITY_DN16953_c0_g1_i1_2	1	20,8	8,4516	12,183					
TRINITY_DN10509_c0_g1_i1_3	2	5,9	33,117	11,731	PF01738.17	DLH	102,2	2,60E-29	CL0028
TRINITY_DN7183_c0_g1_i2_1	2	7	41,267	12,849	PF01926.22	MMR_HSR1	55,7	4,20E-15	CL0023
TRINITY_DN17895_c0_g1_i1_1	2	17	18,688	36,964	PF00982.20	Glyco_transf_20	25,6	4,30E-06	CL0113
TRINITY_DN9983_c0_g1_i1_1	2	6,6	57,02	14,38	PF04209.12	HgmA	700,7	5,40E-211	CL0029
TRINITY_DN1054_c0_g1_i1_1	4	13,6	27,246	17,326	PF13417.5	GST_N_3	30,8	2,60E-07	CL0172
TRINITY_DN1267_c0_g1_i1_6	1	13,6	10,985	7,7946	PF00132.23	Hexapep	18,6	0,001	CL0536
TRINITY_DN10960_c0_g1_i1_3	2	6,4	48,381	12,412	PF00574.22	CLP_protease	147,7	3,10E-43	CL0127
TRINITY_DN20312_c0_g1_i1_4	2	21,3	16,732	18,358	PF00800.17	PDT	30,5	2,70E-07	CL0177
TRINITY_DN18128_c0_g1_i1_2	2	32,1	9,2557	13,074					
TRINITY_DN8563_c0_g1_i1_2	2	7,4	42,569	12,886	PF04893.16	Yip1	52,8	3,50E-14	CL0112
TRINITY_DN6232_c0_g1_i3_2	2	5,7	70,789	13,489					
TRINITY_DN5437_c0_g1_i1_2	2	5,9	60,632	15,224	PF03141.15	Methyltransf_29	404,4	5,80E-121	CL0063
TRINITY_DN3837_c0_g1_i1_3	2	12	24,287	28,138					

TRINITY_DN4426_c0_g1_i1_2	2	7,4	48,53	12,426	PF14416.5	PMR5N	71,7	4,10E-20	No_clan
TRINITY_DN13216_c0_g1_i1_3	1	34,5	8,7808	6,6533					
TRINITY_DN8517_c0_g1_i3_3	3	7,4	72,212	18,702	PF12819.6	Malectin_like	210,3	3,70E-62	CL0468
TRINITY_DN17094_c0_g1_i1_4	3	18,5	21,397	19,249	PF12763.6	EF-hand_4	43,9	1,60E-11	CL0220
TRINITY_DN20326_c0_g1_i1_2	1	7,1	17,71	6,6156	PF00443.28	UCH	68,4	6,00E-19	CL0125
TRINITY_DN7535_c0_g2_i1_1	1	5,4	42,729	6,6489	PF01694.21	Rhomboid	137,8	2,50E-40	CL0207
TRINITY_DN7228_c0_g1_i2_1	2	6,9	43,41	12,361	PF10408.8	Ufd2P_core	279,4	5,90E-83	No_clan
TRINITY_DN16259_c0_g1_i1_3	2	33	9,5437	12,847	PF00133.21	tRNA-synt_1	75,5	2,50E-21	CL0039
TRINITY_DN21689_c0_g1_i1_3	1	4,7	22,273	6,5225	PF00076.21	RRM_1	61,6	4,40E-17	CL0221
TRINITY_DN8651_c0_g2_i1_2	2	7,4	48,095	17,308	PF03643.14	Vps26	412,2	7,00E-124	CL0135
TRINITY_DN11262_c0_g1_i1_3	1	4	37,958	6,3132	PF00071.21	Ras	199,4	2,40E-59	CL0023
TRINITY_DN2292_c0_g3_i1_5	2	19,1	10,655	23,834	PF00428.18	Ribosomal_60s	39,5	6,10E-10	No_clan
TRINITY_DN12820_c0_g1_i1_2	2	20,8	16,199	13,029	PF00307.30	CH	30	4,40E-07	CL0188
TRINITY_DN21154_c0_g1_i1_4	1	8,4	16,993	7,0983					
TRINITY_DN17026_c0_g1_i1_1	1	4,6	27,745	55,155	PF02140.17	Gal_Lectin	74	9,30E-21	No_clan
TRINITY_DN14578_c0_g1_i1_4	2	13	17,677	12,873	PF00560.32	LRR_1	11,8	0,27	CL0022
TRINITY_DN5368_c0_g1_i2_5	6	22,4	35,968	12,251	PF00244.19	14-3-3	346,4	5,50E-104	No_clan
TRINITY_DN17464_c0_g1_i1_1	2	16	19,677	11,26	PF01380.21	SIS	55,7	4,10E-15	CL0067
TRINITY_DN8742_c0_g1_i1_3	1	4,2	37,583	7,8326	PF00025.20	Arf	167,9	1,30E-49	CL0023
TRINITY_DN14137_c0_g1_i1_2	2	28,8	8,3896	13,812	PF01593.23	Amino_oxidase	30,4	2,20E-07	CL0063
TRINITY_DN2434_c0_g1_i1_5	2	5,8	45,318	11,59					
TRINITY_DN10474_c1_g1_i1_2	3	6,3	74,006	16,607	PF00069.24	Pkinase	268,3	5,90E-80	CL0016
TRINITY_DN12774_c0_g1_i1_1	1	10,8	17,607	6,801	PF04909.13	Amidohydro_2	35,8	7,00E-09	CL0034
TRINITY_DN3904_c0_g1_i1_3	2	12,2	16,074	12,29					
TRINITY_DN19463_c0_g1_i1_1	1	9,8	13,65	8,0601					
TRINITY_DN8904_c0_g2_i1_3	3	8,3	48,994	19,105	PF14604.5	SH3_9	40	2,40E-10	CL0010
TRINITY_DN8767_c0_g1_i1_3	2	7,8	56,318	15,522					
TRINITY_DN3578_c0_g1_i1_2	5	30,3	17,215	6,5762	PF00347.22	Ribosomal_L6	42,6	6,70E-11	No_clan
TRINITY_DN15270_c0_g1_i1_2	2	17,1	21,144	13,814					
TRINITY_DN1008_c0_g2_i1_2	1	6,1	17,815	6,7699					
TRINITY_DN13945_c0_g1_i1_1	2	10,2	25,342	12,271	PF00069.24	Pkinase	80	1,60E-22	CL0016
TRINITY_DN7325_c0_g1_i1_1	2	9,3	21,479	11,733	PF00240.22	ubiquitin	25,2	9,20E-06	CL0072
TRINITY_DN11924_c0_g1_i1_2	2	9,4	41,24	13,931					

TRINITY_DN10508_c0_g1_i3_5	3	9,8	38,718	16,222	PF00248.20	Aldo_ket_red	168,3	1,90E-49	No_clan
TRINITY_DN7011_c0_g1_i1_2	2	5,1	38,014	12,753	PF00307.30	CH	38,6	9,00E-10	CL0188
TRINITY_DN3619_c0_g1_i1_2	2	15,6	16,006	12,474	PF07748.12	Glyco_hydro_38C	30	2,50E-07	CL0103
TRINITY_DN14686_c0_g1_i1_1	1	19,8	9,789	6,7863	PF00759.18	Glyco_hydro_9	91,3	8,00E-26	CL0059
TRINITY_DN9581_c0_g1_i2_2	2	12,1	24,196	36,854	PF03061.21	4HBT	29,7	5,50E-07	CL0050
TRINITY_DN9707_c0_g1_i1_1	2	6,7	42,528	16,512	PF00701.21	DHDPS	306	1,60E-91	CL0036
TRINITY_DN8938_c0_g1_i1_2	2	6	53,967	13,983					
TRINITY_DN10825_c0_g1_i4_1	1	9,6	18,078	8,1567					
TRINITY_DN7033_c0_g2_i1_2	3	5,2	69,38	17,057					
TRINITY_DN10999_c0_g1_i5_2	3	6,1	96,338	14,147	PF03030.15	H_PPase	879,1	2,10E-264	No_clan
TRINITY_DN3792_c0_g1_i1_2	4	17,3	36,384	24,471					
TRINITY_DN15541_c0_g1_i1_1	1	10,3	16,289	7,3253					
TRINITY_DN2393_c0_g1_i1_3	2	6,4	48,815	15,429					
TRINITY_DN10184_c0_g1_i1_3	2	3,6	51,805	16,374	PF01073.18	3Beta_HSD	160,7	3,40E-47	CL0063
TRINITY_DN7705_c0_g1_i2_6	3	7,2	66,351	19,799	PF00076.21	RRM_1	44,1	1,30E-11	CL0221
TRINITY_DN7315_c0_g1_i1_4	2	8,9	42,346	24,011	PF01612.19	DNA_pol_A_exo1	80,8	9,00E-23	CL0219
TRINITY_DN8439_c0_g1_i1_6	3	9,6	40,739	11,204	PF00141.22	peroxidase	158,5	1,90E-46	CL0617
TRINITY_DN3610_c0_g2_i1_2	1	7,9	15,56	6,8876	PF07798.10	DUF1640	140,7	4,60E-41	No_clan
TRINITY_DN3307_c0_g1_i1_1	2	16,4	23,329	12,744	PF01535.19	PPR	24,7	1,60E-05	CL0020
TRINITY_DN18256_c0_g1_i1_4	3	10,6	49,182	17,324					
TRINITY_DN11948_c0_g1_i1_6	1	3,3	34,325	6,916	PF13622.5	4HBT_3	201,9	1,80E-59	CL0050
TRINITY_DN5672_c0_g1_i1_6	1	1,7	66,159	-2					
TRINITY_DN138_c0_g1_i1_3	2	26,6	15,232	11,85					
TRINITY_DN10435_c0_g1_i1_1	2	5,8	77,751	12,497	PF03630.13	Fumble	306,3	2,40E-91	CL0108
TRINITY_DN10493_c0_g1_i1_1	6	20,7	33,317	12,885	PF00071.21	Ras	222,1	2,60E-66	CL0023
TRINITY_DN10290_c0_g1_i1_1	2	5,6	51,766	16,35	PF08569.10	Mo25	413,2	7,90E-124	CL0020
TRINITY_DN12636_c0_g1_i1_3	2	18,2	15,173	13,9	PF00107.25	ADH_zinc_N	66,9	1,40E-18	CL0063
TRINITY_DN14818_c0_g1_i1_6	2	21,6	17,459	14,096	PF00300.21	His_Phos_1	52,5	4,60E-14	CL0071
TRINITY_DN360_c0_g1_i1_4	2	12,5	33,64	17,621	PF05686.11	Glyco_transf_90	362,6	2,10E-108	CL0113
TRINITY_DN7953_c0_g2_i1_2	2	4,1	55,659	11,879	PF01494.18	FAD_binding_3	36,1	4,00E-09	CL0063
TRINITY_DN8751_c1_g1_i1_3	2	7,9	53,605	15,612	PF00400.31	WD40	13	0,14	CL0186
TRINITY_DN19806_c0_g1_i1_2	2	25	13,142	12,08	PF02733.16	Dak1	160,2	4,80E-47	CL0245
TRINITY_DN18164_c0_g1_i1_4	1	12,5	14,854	7,3518	PF05193.20	Peptidase_M16_C	30,4	3,20E-07	CL0094

TRINITY_DN7968_c0_g1_i1_1	1	4,8	22,972	7,1275	PF01894.16	UPF0047	130,3	3,20E-38	No_clan
TRINITY_DN7925_c0_g2_i1_4	2	10,1	32,777	12,646	PF00956.17	NAP	27,1	2,10E-06	No_clan
TRINITY_DN8225_c0_g1_i1_3	2	6,5	63,684	13,669	PF01650.17	Peptidase_C13	379,2	8,80E-114	CL0093
TRINITY_DN7814_c0_g1_i1_2	2	5,4	54,822	12,933	PF06886.10	TPX2	70,7	8,20E-20	No_clan
TRINITY_DN21393_c0_g1_i1_4	2	20	18,12	20,215	PF03759.12	PRONE	91,3	4,90E-26	No_clan
TRINITY_DN20157_c0_g1_i1_3	2	31,1	8,4173	11,595	PF13639.5	zf-RING_2	47,9	1,10E-12	CL0229
TRINITY_DN4739_c0_g2_i1_6	2	26,6	20,133	16,15	PF13365.5	Trypsin_2	89,3	4,20E-25	CL0124
TRINITY_DN6504_c0_g1_i1_3	2	3,5	45,315	11,281	PF00612.26	IQ	23	3,70E-05	CL0220
TRINITY_DN9930_c0_g1_i3_4	2	15,3	24,077	18,129	PF01588.19	tRNA_bind	86,8	7,50E-25	CL0021
TRINITY_DN11687_c0_g1_i1_1	2	35,4	8,7137	10,88					
TRINITY_DN968_c0_g1_i1_2	1	5,7	25,709	8,5462	PF00067.21	p450	156,7	7,60E-46	No_clan
TRINITY_DN8156_c0_g1_i1_6	2	5,9	41,568	12,055	PF05686.11	Glyco_transf_90	552,9	3,50E-166	CL0113
TRINITY_DN9403_c0_g1_i2_1	3	10,5	45,882	13,212	PF08240.11	ADH_N	108,6	1,30E-31	CL0296
TRINITY_DN10308_c0_g2_i1_1	2	10,7	23,839	6,4287					
TRINITY_DN5427_c0_g1_i1_3	1	12,1	18,759	20,547					
TRINITY_DN10971_c0_g1_i2_2	3	9,1	53,469	19,589	PF07676.11	PD40	26	5,80E-06	CL0186
TRINITY_DN21130_c0_g1_i1_6	2	11,1	22,382	10,738					
TRINITY_DN7507_c0_g1_i1_6	1	12,3	18,306	9,5183					
TRINITY_DN8691_c0_g1_i1_4	2	13,1	17,355	11,866					
TRINITY_DN13949_c0_g1_i2_2	2	11,1	35,504	13,721	PF00106.24	adh_short	165,8	7,00E-49	CL0063
TRINITY_DN17228_c0_g1_i1_3	1	19,3	9,4239	11,972					
TRINITY_DN15289_c0_g1_i1_4	1	9,8	13,01	7,1926	PF08207.11	EFP_N	63,2	1,60E-17	CL0107
TRINITY_DN3649_c0_g1_i1_2	1	5,9	23,468	7,842	PF00300.21	His_Phos_1	22,9	5,30E-05	CL0071
TRINITY_DN3740_c0_g2_i1_2	1	9,3	23,753	7,1331	PF01121.19	CoaE	123,8	5,60E-36	CL0023
TRINITY_DN18927_c0_g1_i1_2	2	10,9	34,54	12,77	PF01467.25	CTP_transf_like	28,7	1,20E-06	CL0039
TRINITY_DN8933_c1_g1_i1_2	1	20,2	9,2906	6,7734	PF00004.28	AAA	81	9,40E-23	CL0023
TRINITY_DN16700_c0_g1_i1_4	1	17,9	7,4043	8,9071					
TRINITY_DN709_c0_g2_i1_2	2	6,8	32,639	11,244	PF00400.31	WD40	14,8	0,036	CL0186
TRINITY_DN813_c0_g1_i1_3	1	11	20,248	6,3526					
TRINITY_DN20089_c0_g1_i1_1	1	11,7	8,3746	6,4757	PF13202.5	EF-hand_5	26,6	2,70E-06	CL0220
TRINITY_DN19940_c0_g1_i1_4	1	7,7	18,588	7,679	PF01031.19	Dynamin_M	54,9	6,90E-15	No_clan
TRINITY_DN16604_c0_g1_i1_3	2	17	16,314	17,699	PF07719.16	TPR_2	28,1	1,20E-06	CL0020
TRINITY_DN9343_c0_g1_i1_2	2	6,8	74,733	19,179	PF07714.16	Pkinase_Tyr	107,3	7,10E-31	CL0016

TRINITY_DN8561_c0_g1_i4_1	4	27,5	29,506	24,773					
TRINITY_DN21803_c0_g1_i1_1	1	19,4	12,662	7,562					
TRINITY_DN4286_c0_g1_i1_4	2	12,7	33,306	15,24	PF00069.24	Pkinase	123,2	1,10E-35	CL0016
TRINITY_DN5644_c1_g3_i1_6	1	22,8	15,48	6,5392					
TRINITY_DN11599_c0_g1_i3_2	2	16,3	31,609	11,849					
TRINITY_DN17497_c0_g1_i1_2	2	9,8	50,66	12,069	PF02786.16	CPSase_L_D2	98,6	3,10E-28	CL0179
TRINITY_DN3550_c0_g2_i1_2	2	4	48,67	11,8	PF10191.8	COG7	431,6	5,50E-129	CL0294
TRINITY_DN4310_c0_g1_i1_1	1	5,9	18,702	6,4157	PF00724.19	Oxidored_FMN	42	6,20E-11	CL0036
TRINITY_DN21144_c0_g1_i1_4	3	14	31,477	21,253	PF00795.21	CN_hydrolase	150,3	5,60E-44	No_clan
TRINITY_DN23569_c0_g1_i1_2	1	23,7	7,9162	6,7389					
TRINITY_DN2786_c0_g1_i1_5	1	13,3	21,737	9,1134	PF00657.21	Lipase_GDSL	31,9	1,10E-07	CL0264
TRINITY_DN5005_c0_g1_i1_1	2	7,4	43,484	21,114	PF00581.19	Rhodanese	31,1	2,40E-07	CL0031
TRINITY_DN5974_c0_g1_i1_3	2	5,5	39,906	10,745	PF02485.20	Branch	199,7	4,90E-59	CL0110
TRINITY_DN6400_c0_g1_i4_1	4	17,8	26,673	11,567	PF00071.21	Ras	130	5,60E-38	CL0023
TRINITY_DN11632_c0_g1_i2_5	2	3,8	81,885	7,8946	PF01873.16	eIF-5_eIF-2B	125,7	7,60E-37	No_clan
TRINITY_DN17813_c0_g1_i1_1	1	13,2	19,963	13,232	PF00069.24	Pkinase	71,3	7,60E-20	CL0016
TRINITY_DN17235_c0_g1_i1_3	1	7,9	23,856	8,1107					
TRINITY_DN6926_c0_g1_i1_6	2	11,7	17,183	16,596	PF10961.7	SelK_SelG	72,4	3,30E-20	No_clan
TRINITY_DN17803_c0_g2_i1_3	2	7,2	50,786	11,721	PF13320.5	DUF4091	63,6	1,30E-17	No_clan
TRINITY_DN2011_c0_g1_i1_4	2	30,3	8,5633	12,894					
TRINITY_DN8075_c0_g1_i4_2	2	7,2	45,937	13,235					
TRINITY_DN2579_c0_g1_i1_2	2	34,1	9,545	12,883	PF12436.7	USP7_ICP0_bdg	74,5	7,80E-21	CL0072
TRINITY_DN19468_c0_g1_i1_2	1	5,3	23,27	7,2127	PF00995.22	Sec1	164,7	4,60E-48	No_clan
TRINITY_DN3475_c0_g2_i1_2	2	9,9	28,132	11,257					
TRINITY_DN4140_c0_g1_i1_5	1	4,4	30,727	6,9305	PF00445.17	Ribonuclease_T2	209,8	3,50E-62	No_clan
TRINITY_DN545_c0_g1_i1_2	2	26,4	17,203	18,077	PF07766.12	LETM1	139,7	9,70E-41	No_clan
TRINITY_DN6995_c0_g1_i1_6	1	4,7	23,094	6,9846	PF01423.21	LSM	65,1	3,20E-18	CL0527
TRINITY_DN9117_c0_g1_i2_2	2	6,7	36,43	13,072	PF00168.29	C2	80	1,30E-22	CL0154
TRINITY_DN14629_c0_g1_i1_3	1	14,9	11,124	7,3181					
TRINITY_DN8532_c0_g1_i1_2	2	16,8	16,75	10,824	PF00574.22	CLP_protease	36,1	5,20E-09	CL0127
TRINITY_DN9825_c0_g1_i1_3	2	5,6	78,282	12,037	PF01434.17	Peptidase_M41	252,4	3,00E-75	CL0126
TRINITY_DN2131_c0_g1_i1_6	1	4,4	40,4	11,754	PF02540.16	NAD_synthase	69,4	2,20E-19	CL0039
TRINITY_DN2699_c0_g1_i1_6	2	4,9	60,618	9,3007	PF00479.21	G6PD_N	168,5	2,00E-49	CL0063

TRINITY_DN10766_c0_g1_i8_3	1	2,5	46,906	-2					
TRINITY_DN6812_c0_g1_i7_1	2	6,8	48,707	10,888	PF00069.24	Pkinase	103,5	1,10E-29	CL0016
TRINITY_DN19649_c0_g1_i1_5	1	19,7	13,67	7,3023					
TRINITY_DN10388_c0_g2_i1_5	3	5,9	78,894	12,664	PF00082.21	Peptidase_S8	164,4	3,30E-48	No_clan
TRINITY_DN8750_c0_g2_i1_3	3	8,5	52,799	11,566	PF14306.5	PUA_2	149,7	4,80E-44	CL0178
TRINITY_DN17662_c0_g2_i1_1	1	8,8	27,262	32,257	PF00574.22	CLP_protease	166,1	7,10E-49	CL0127
TRINITY_DN5306_c0_g1_i1_1	2	9,5	32,605	12,449	PF12899.6	Glyco_hydro_100	490,4	3,80E-147	CL0059
TRINITY_DN4670_c0_g1_i1_2	4	13,1	54,279	15,025	PF07766.12	LETM1	178,4	1,60E-52	No_clan
TRINITY_DN9078_c0_g1_i2_3	2	6,7	42,511	12,878					
TRINITY_DN8091_c0_g1_i1_6	2	11,9	29,503	11,871	PF03357.20	Snf7	147,1	3,50E-43	CL0235
TRINITY_DN12406_c0_g1_i1_2	2	18,2	16,758	7,6126	PF12701.6	LSM14	106	7,40E-31	CL0527
TRINITY_DN17368_c0_g1_i1_2	1	15	18,885	9,6769	PF00534.19	Glycos_transf_1	32,9	4,20E-08	CL0113
TRINITY_DN9727_c0_g1_i1_3	4	12,7	37,019	43,495	PF00657.21	Lipase_GDSL	59,1	5,10E-16	CL0264
TRINITY_DN17339_c0_g1_i1_3	1	26	8,8874	35,531	PF00036.31	EF-hand_1	33,8	1,20E-08	CL0220
TRINITY_DN18284_c0_g1_i1_2	2	10,9	26,515	11,71	PF16113.4	ECH_2	272,9	4,30E-81	CL0127
TRINITY_DN10226_c0_g1_i1_1	1	3,8	39,146	6,418	PF16561.4	AMPK1_CBM	57,6	1,00E-15	CL0369
TRINITY_DN8973_c0_g1_i1_1	2	7,3	38,806	13,803	PF05773.21	RWD	82,8	2,00E-23	CL0208
TRINITY_DN16264_c0_g1_i1_2	2	32,9	8,4927	12,958	PF00733.20	Asn_synthase	71,7	7,90E-20	CL0039
TRINITY_DN12122_c0_g1_i1_3	3	9,9	48,045	22,394	PF14802.5	TMEM192	54,8	6,20E-15	No_clan
TRINITY_DN4741_c0_g1_i1_2	2	4,9	54,722	12,441	PF16891.4	STPPase_N	70,9	8,20E-20	No_clan
TRINITY_DN20857_c0_g1_i1_2	1	5,8	19,265	6,7121	PF13419.5	HAD_2	53,3	3,20E-14	CL0137
TRINITY_DN13782_c0_g1_i1_1	2	26,7	8,843	11,928					
TRINITY_DN4532_c0_g1_i1_2	1	2,7	54,783	6,5299	PF01148.19	CTP_transf_1	287,9	8,70E-86	CL0234
TRINITY_DN39_c0_g2_i1_6	2	11,6	22,691	12,388					
TRINITY_DN20415_c0_g1_i1_2	1	14,1	8,9973	6,5642					
TRINITY_DN9710_c1_g1_i1_6	2	5,3	64,909	10,87	PF01535.19	PPR	23,6	3,60E-05	CL0020
TRINITY_DN371_c0_g1_i1_2	1	3,4	49,167	7,0317	PF05918.10	API5	359,2	3,70E-107	CL0020
TRINITY_DN20208_c0_g1_i1_1	1	17,1	8,0021	7,1508	PF01843.18	DIL	54	1,60E-14	No_clan
TRINITY_DN11629_c0_g1_i3_3	3	3,9	102,32	108,49	PF00933.20	Glyco_hydro_3	133,9	7,40E-39	CL0058
TRINITY_DN12689_c0_g1_i1_2	2	4,7	54,663	14,685	PF13764.5	E3_UbLigase_R4	478,3	4,30E-143	No_clan
TRINITY_DN8223_c0_g1_i4_6	1	4,5	36,495	-2					
TRINITY_DN20465_c0_g1_i1_6	1	19,2	7,4231	8,1522	PF00370.20	FGGY_N	32,6	5,40E-08	CL0108
TRINITY_DN7564_c1_g2_i2_4	2	14,1	19,683	13,214					

TRINITY_DN10977_c0_g2_i3_5	5	13,5	60,258	13,998	PF00270.28	DEAD	132,5	1,20E-38	CL0023
TRINITY_DN23633_c0_g1_i1_2	1	22,7	7,9653	6,3807	PF13840.5	ACT_7	39,4	3,60E-10	CL0070
TRINITY_DN6603_c0_g1_i1_3	3	8,5	57,472	19,02	PF03635.16	Vps35	386,1	3,40E-115	No_clan
TRINITY_DN9814_c0_g1_i2_2	3	7,3	49,726	18,148	PF00112.22	Peptidase_C1	216,5	4,30E-64	CL0125
TRINITY_DN7007_c0_g1_i1_6	2	8,4	45,473	11,475	PF10609.8	ParA	275	4,90E-82	CL0023
TRINITY_DN14463_c0_g1_i1_1	1	10,2	20,315	6,7651	PF00149.27	Metallophos	41,1	2,50E-10	CL0163
TRINITY_DN6833_c0_g1_i1_2	1	4,8	29,9	7,1747	PF00160.20	Pro_isomerase	116,8	9,80E-34	CL0475
TRINITY_DN839_c0_g1_i2_1	1	14,2	12,198	7,0925	PF01780.18	Ribosomal_L37ae	78,4	2,90E-22	CL0167
TRINITY_DN20539_c0_g1_i1_2	2	18,2	18,134	25,846	PF00012.19	HSP70	163,8	4,30E-48	CL0108
TRINITY_DN3431_c0_g1_i1_2	2	15	14,641	12,189					
TRINITY_DN11964_c0_g1_i1_3	1	4	28,232	6,7638	PF01301.18	Glyco_hydro_35	296,4	3,00E-88	CL0058
TRINITY_DN4866_c0_g2_i1_1	4	6,8	75,23	26,533	PF16969.4	SRP68	546,4	9,50E-164	No_clan
TRINITY_DN16866_c0_g1_i1_6	1	17,5	8,823	6,8661					
TRINITY_DN13956_c0_g1_i1_2	1	13,8	10,927	8,5748	PF01417.19	ENTH	48,7	6,70E-13	CL0009
TRINITY_DN4399_c0_g1_i1_6	2	30,2	11,419	6,472	PF14523.5	Syntaxin_2	26,3	6,70E-06	CL0445
TRINITY_DN10671_c0_g1_i5_2	2	7	46,486	16,379	PF04981.12	NMD3	143,3	8,00E-42	No_clan
TRINITY_DN3450_c0_g1_i1_1	2	8,6	39,678	11,413	PF13507.5	GATase_5	351	2,70E-105	CL0014
TRINITY_DN19533_c0_g1_i1_2	2	18,2	12,181	14,443					
TRINITY_DN14184_c0_g1_i1_2	2	34,9	11,762	11,819					
TRINITY_DN10011_c0_g2_i1_5	2	6,4	36,51	11,98	PF00098.22	zf-CCHC	31,2	1,40E-07	CL0511
TRINITY_DN10051_c0_g1_i3_2	2	4,8	58,151	15,143	PF00226.30	DnaJ	81,1	4,30E-23	CL0392
TRINITY_DN9084_c1_g1_i1_6	1	2,7	37,203	6,2973	PF01871.16	AMMECR1	160,3	2,80E-47	No_clan
TRINITY_DN13392_c0_g1_i1_2	2	11,9	27,301	11,541	PF00515.27	TPR_1	31,5	9,00E-08	CL0020
TRINITY_DN5114_c0_g1_i1_5	1	4,3	32,117	7,1701	PF07724.13	AAA_2	105,5	3,00E-30	CL0023
TRINITY_DN18316_c0_g1_i1_1	1	6,4	24,542	7,6517	PF03070.15	TENA_THI-4	33,3	4,00E-08	CL0230
TRINITY_DN764_c0_g1_i1_4	3	15,2	34,615	16,745	PF00786.27	PBD	37,4	2,30E-09	No_clan
TRINITY_DN10979_c0_g1_i3_3	10	21,1	49,919	9,7138	PF03214.12	RGP	584,9	4,70E-176	CL0110
TRINITY_DN10800_c0_g1_i2_2	2	8,3	55,205	12,179	PF00288.25	GHMP_kinases_N	33,5	3,50E-08	CL0329
TRINITY_DN14978_c0_g1_i1_4	1	15,5	7,8048	7,3011	PF04815.14	Sec23_helical	34,9	9,70E-09	No_clan
TRINITY_DN6214_c0_g1_i1_1	1	4,4	35,56	7,5174	PF12352.7	V-SNARE_C	66,9	1,40E-18	CL0147
TRINITY_DN14988_c0_g2_i1_4	1	12	16,139	6,3362	PF08502.9	LeuA_dimer	75,1	4,20E-21	No_clan
TRINITY_DN6278_c0_g1_i1_2	2	6,6	39,058	12,581	PF05770.10	Ins134_P3_kin	317,1	1,00E-94	CL0179
TRINITY_DN6964_c0_g1_i1_1	2	10,7	27,01	12,531	PF00091.24	Tubulin	24,9	1,80E-05	CL0566

TRINITY_DN3722_c0_g1_i1_4	2	10,3	29,69	11,374	PF00753.26	Lactamase_B	38,6	1,00E-09	CL0381
TRINITY_DN22328_c0_g1_i1_3	1	29,8	8,9288	10,93					
TRINITY_DN18052_c0_g2_i1_1	1	5,3	29,027	6,7821					
TRINITY_DN11467_c0_g1_i1_1	1	5,6	21,895	6,5129					
TRINITY_DN15189_c0_g1_i1_3	1	10,6	21,345	7,339					
TRINITY_DN14289_c0_g2_i1_2	1	9,8	14,027	7,1747	PF02769.21	AIRS_C	56	4,60E-15	No_clan
TRINITY_DN1005_c0_g1_i2_3	1	10,6	15,857	8,1262	PF02150.15	RNA_POL_M_15KD	44	1,40E-11	CL0167
TRINITY_DN3819_c0_g1_i2_3	2	7,8	53,719	13,535	PF03853.14	YjeF_N	116,6	9,90E-34	CL0063
TRINITY_DN7943_c0_g1_i2_2	2	4,6	72,343	6,777	PF00122.19	E1-E2_ATPase	24,3	1,70E-05	No_clan
TRINITY_DN2112_c0_g2_i1_6	1	11	13,637	8,4741					
TRINITY_DN10350_c1_g1_i4_2	1	3,2	37,807	7,1787	PF03398.13	Ist1	99,6	1,50E-28	No_clan
TRINITY_DN6884_c1_g3_i1_2	1	3,4	38,329	6,522	PF00106.24	adh_short	165	1,20E-48	CL0063
TRINITY_DN12265_c0_g1_i1_2	2	20,3	14,635	11,771	PF05822.11	UMPH-1	176	8,80E-52	CL0137
TRINITY_DN21124_c0_g1_i3_3	1	11,4	9,7812	6,5762					
TRINITY_DN9012_c0_g1_i1_4	2	8,3	46,943	12,779	PF00389.29	2-Hacid_dh	55,9	3,10E-15	CL0325
TRINITY_DN9946_c0_g2_i4_3	1	1,4	99,481	6,2907	PF00862.18	Sucrose_synth	951,3	1,10E-286	CL0113
TRINITY_DN5727_c0_g2_i1_6	1	9,4	14,536	-2					
TRINITY_DN12393_c0_g1_i1_4	2	8,3	33,842	14,006	PF07992.13	Pyr_redox_2	101,4	5,00E-29	CL0063
TRINITY_DN4111_c0_g2_i1_2	1	5,7	27,998	8,0508	PF00107.25	ADH_zinc_N	45,3	7,10E-12	CL0063
TRINITY_DN11057_c0_g8_i1_3	1	6,6	20,125	7,1508	PF00016.19	RuBisCO_large	277,7	9,50E-83	No_clan
TRINITY_DN2598_c0_g2_i1_3	1	1,4	86,872	6,6096	PF01301.18	Glyco_hydro_35	183,9	5,10E-54	CL0058
TRINITY_DN9900_c0_g1_i2_2	1	5,8	35,342	9,0926	PF02845.15	CUE	21,3	0,00014	CL0214
TRINITY_DN3402_c0_g1_i1_5	1	23,1	9,9723	6,8275					
TRINITY_DN9871_c0_g1_i2_2	1	5,5	27,555	6,8332	PF08695.9	Coa1	34	1,90E-08	CL0455
TRINITY_DN9274_c0_g1_i1_2	2	10,2	36,37	14,792	PF00445.17	Ribonuclease_T2	171,8	1,60E-50	No_clan
TRINITY_DN20612_c0_g1_i1_1	1	10,9	11,217	7,2635	PF00076.21	RRM_1	48,9	3,90E-13	CL0221
TRINITY_DN21955_c0_g1_i1_1	1	15,2	12,291	8,089	PF13393.5	tRNA-synt_His	34,2	1,50E-08	CL0040
TRINITY_DN7460_c0_g1_i1_6	1	4,4	28,376	7,2876	PF02492.18	cobW	26,5	3,80E-06	CL0023
TRINITY_DN6570_c0_g1_i1_6	1	7,6	21,854	6,5316	PF05347.14	Complex1_LYR	30,3	3,00E-07	CL0491
TRINITY_DN12116_c0_g1_i1_5	1	9,5	18,705	8,1712					
TRINITY_DN18165_c0_g1_i1_3	1	8,1	22,768	6,6551	PF07086.11	Jagunal	30,3	3,90E-07	No_clan
TRINITY_DN19285_c0_g1_i1_2	2	12,9	33,258	13,106	PF00459.24	Inositol_P	181,4	2,20E-53	CL0171

TRINITY_DN4092_c0_g1_i1_3	1	5,7	20,682	7,0055					
TRINITY_DN4871_c0_g1_i1_3	1	9,6	15,386	6,2893	PF03171.19	2OG-FeII_Oxy	60,9	1,20E-16	CL0029
TRINITY_DN23190_c0_g1_i1_4	1	20,7	10,596	6,5826	PF00067.21	p450	88,9	2,70E-25	No_clan
TRINITY_DN2267_c0_g1_i1_5	1	1,3	100,01	7,1569	PF00400.31	WD40	12,3	0,23	CL0186
TRINITY_DN12570_c0_g1_i1_4	2	34,8	12,48	11,973					
TRINITY_DN19686_c0_g1_i1_5	2	29	12,052	13,355	PF00675.19	Peptidase_M16	110	9,30E-32	CL0094
TRINITY_DN15214_c0_g1_i1_3	1	12,9	10,581	7,1412	PF08100.10	Dimerisation	75,8	1,80E-21	CL0123
TRINITY_DN18839_c0_g1_i1_6	1	16	11,298	9,6314	PF00156.26	Pribosyltran	52,5	3,60E-14	CL0533
TRINITY_DN12937_c0_g1_i1_3	1	12,4	17,405	7,1278	PF02020.17	W2	41,2	1,20E-10	CL0020
TRINITY_DN3038_c0_g1_i1_4	1	6,3	27,125	6,418	PF02485.20	Branch	156,3	9,00E-46	CL0110
TRINITY_DN3285_c0_g1_i1_1	2	8,9	24,878	9,048	PF00632.24	HECT	41,5	1,00E-10	CL0552
TRINITY_DN4341_c0_g1_i1_2	1	18,2	10,734	7,2971	PF01008.16	IF-2B	82,9	2,10E-23	CL0246
TRINITY_DN5664_c0_g1_i1_3	2	6,4	38,036	14,627					
TRINITY_DN3970_c0_g1_i1_1	1	7,1	18,001	7,1569	PF00892.19	EamA	29,3	7,40E-07	CL0184
TRINITY_DN12410_c0_g1_i1_6	3	8,3	42,015	18,813	PF01370.20	Epimerase	97,8	6,00E-28	CL0063
TRINITY_DN4354_c0_g1_i1_4	1	11,9	10,721	6,5199	PF15801.4	zf-C6H2	57,9	8,40E-16	CL0175
TRINITY_DN9720_c0_g1_i6_2	1	19,4	17,113	7,312	PF00076.21	RRM_1	54,7	6,10E-15	CL0221
TRINITY_DN22980_c0_g1_i1_3	1	13,3	10,988	9,9					
TRINITY_DN9256_c0_g1_i4_1	2	6,7	40,639	16,658					
TRINITY_DN8333_c0_g1_i1_3	1	7,8	17,827	20,017					
TRINITY_DN294_c0_g1_i1_2	1	4,8	37,295	8,2264	PF00443.28	UCH	134	5,80E-39	CL0125
TRINITY_DN8005_c0_g1_i2_2	3	14,3	33,549	6,5734	PF00071.21	Ras	187,9	8,60E-56	CL0023
TRINITY_DN17859_c0_g1_i1_3	1	8,2	18,451	10,395					
TRINITY_DN1542_c0_g1_i1_6	2	21,1	15,345	16,334	PF14008.5	Metallophos_C	33,6	4,80E-08	No_clan
TRINITY_DN7035_c1_g2_i1_3	2	5,9	53,811	12,482	PF01388.20	ARID	59,5	3,40E-16	CL0123
TRINITY_DN19252_c0_g1_i1_4	2	18,8	16,477	12,54					
TRINITY_DN1690_c0_g1_i2_5	2	5,6	46,543	11,429	PF01008.16	IF-2B	28,2	9,60E-07	CL0246
TRINITY_DN18166_c0_g1_i1_4	1	11,6	9,7533	6,7653					
TRINITY_DN9981_c1_g1_i1_3	2	8	39,025	12,63	PF03997.11	VPS28	230	1,60E-68	CL0596
TRINITY_DN8032_c0_g1_i1_2	1	3,4	52,986	11,676	PF01545.20	Cation_efflux	92,9	2,00E-26	No_clan
TRINITY_DN10046_c0_g2_i1_4	3	13,3	33,533	21,074	PF00576.20	Transthyretin	107,1	6,70E-31	CL0287
TRINITY_DN21517_c0_g1_i1_4	2	8	22,241	11,934	PF00254.27	FKBP_C	121,4	1,40E-35	CL0487
TRINITY_DN316_c0_g1_i1_1	1	12,4	12,146	7,7879					

TRINITY_DN8057_c0_g1_i2_5	1	3,9	36,302	6,6029	PF14938.5	SNAP	90,6	1,00E-25	CL0020
TRINITY_DN22718_c0_g1_i1_2	1	8	12,031	9,4545	PF01412.17	ArfGap	47,5	1,40E-12	No_clan
TRINITY_DN5217_c0_g1_i1_4	1	6,2	32,75	7,1846	PF04551.13	GcpE	166,4	8,80E-49	No_clan
TRINITY_DN8159_c0_g2_i1_1	1	13,1	19,446	27,08	PF00441.23	Acyl-CoA_dh_1	50,4	2,50E-13	CL0087
TRINITY_DN2797_c0_g2_i1_4	1	3,5	45,901	7,345	PF04815.14	Sec23_helical	73,7	7,80E-21	No_clan
TRINITY_DN3030_c0_g1_i1_6	1	2,3	52,003	7,296	PF02636.16	Methyltransf_28	243,7	2,20E-72	CL0063
TRINITY_DN16052_c0_g1_i1_2	2	20,3	16,954	12,114	PF00694.18	Aconitase_C	108,1	3,80E-31	CL0364
TRINITY_DN8771_c0_g1_i1_2	2	8	40,65	12,913	PF09756.8	DDRGK	174,1	2,20E-51	CL0123
TRINITY_DN5711_c0_g2_i1_5	1	8,5	23,155	9,5812	PF04442.13	CtaG_Cox11	179,3	4,40E-53	No_clan
TRINITY_DN11595_c1_g1_i1_3	2	4,4	73,9	12,388	PF00854.20	PTR2	458,6	1,40E-137	CL0015
TRINITY_DN18730_c0_g1_i1_1	1	11,1	16,481	9,8655	PF05187.12	ETF_QO	71,5	5,00E-20	CL0344
TRINITY_DN5685_c0_g1_i4_5	2	10,1	31,172	13,998	PF00149.27	Metallophos	25,3	1,70E-05	CL0163
TRINITY_DN11028_c0_g3_i1_3	7	33,9	31,913	13,769	PF00071.21	Ras	223	1,30E-66	CL0023
TRINITY_DN5255_c1_g1_i1_4	1	18,4	10,8	7,6671	PF00464.18	SHMT	169,3	8,80E-50	CL0061
TRINITY_DN10013_c0_g1_i4_2	2	9,5	27,754	12,937	PF00106.24	adh_short	133,1	7,30E-39	CL0063
TRINITY_DN6316_c0_g1_i4_3	2	7,2	53,484	14,87	PF00022.18	Actin	506,5	3,90E-152	CL0108
TRINITY_DN7363_c0_g1_i1_3	2	6,4	57,056	15,379					
TRINITY_DN18596_c0_g1_i1_5	1	12	17,729	7,1779	PF00069.24	Pkinase	156,5	7,70E-46	CL0016
TRINITY_DN17114_c0_g1_i1_1	1	13,2	12,095	6,9822					
TRINITY_DN19946_c0_g1_i1_4	2	8,1	33,575	12,621	PF08240.11	ADH_N	34,7	1,20E-08	CL0296
TRINITY_DN8995_c0_g1_i1_3	3	7,3	57,759	16,95	PF11919.7	DUF3437	100,9	2,60E-29	No_clan
TRINITY_DN9650_c0_g1_i1_1	1	4	66,946	7,8046	PF06886.10	TPX2	75,3	3,00E-21	No_clan
TRINITY_DN7338_c0_g3_i1_2	2	10,6	21,985	11,486					
TRINITY_DN4072_c0_g2_i1_2	2	5,4	56,242	14,245					
TRINITY_DN2062_c0_g1_i1_6	4	23,4	21,045	6,6464	PF03030.15	H_PPase	316,3	4,30E-94	No_clan
TRINITY_DN5791_c1_g1_i1_2	1	12,1	15,103	6,703					
TRINITY_DN6320_c0_g2_i1_1	2	10,6	36,376	6,5263	PF14686.5	fn3_3	91,1	2,50E-26	CL0287
TRINITY_DN6069_c0_g2_i1_6	1	7,4	25,13	6,4428	PF11712.7	Vma12	35,1	1,10E-08	No_clan
TRINITY_DN18724_c0_g1_i1_4	1	15,9	15,491	9,6436	PF00069.24	Pkinase	49,8	2,70E-13	CL0016
TRINITY_DN4227_c0_g1_i1_3	1	4,5	55,723	6,6565	PF01435.17	Peptidase_M48	109,2	2,00E-31	CL0126
TRINITY_DN18944_c0_g1_i1_1	2	19,7	16,67	13,11	PF01535.19	PPR	10,8	0,46	CL0020
TRINITY_DN9604_c0_g1_i3_3	2	7,1	42,704	12,529					
TRINITY_DN19600_c0_g1_i1_6	1	6,6	26,304	6,9213					

TRINITY_DN2329_c0_g1_i2_6	1	6,1	18,888	7,3018	PF00994.23	MoCF_biosynth	85,6	2,30E-24	No_clan
TRINITY_DN827_c0_g1_i1_1	1	3	49,554	6,2753					
TRINITY_DN8908_c0_g1_i2_1	2	5,3	61,655	13,218	PF03407.15	Nucleotid_trans	184,9	1,70E-54	CL0110
TRINITY_DN18109_c0_g1_i1_5	1	8,2	19,016	10,081	PF01425.20	Amidase	66,8	1,60E-18	No_clan
TRINITY_DN11206_c0_g1_i2_4	1	10,4	17,119	9,5111					
TRINITY_DN18626_c1_g2_i1_2	2	11,5	39,548	14,994	PF04683.12	Proteasom_Rpn13	82,7	1,90E-23	CL0266
TRINITY_DN21756_c0_g1_i1_1	2	39,4	11,674	11,474					
TRINITY_DN2355_c0_g1_i1_2	1	9,3	16,797	9,741	PF07714.16	Pkinase_Tyr	110,6	7,10E-32	CL0016
TRINITY_DN2509_c0_g1_i1_1	2	4,9	47,583	11,336	PF04030.13	ALO	39,6	4,80E-10	CL0277
TRINITY_DN19715_c0_g1_i1_5	2	27,3	8,148	19,097					
TRINITY_DN4748_c0_g1_i1_2	1	2,7	49,321	6,3853	PF00149.27	Metallophos	143,3	1,30E-41	CL0163
TRINITY_DN21521_c1_g1_i1_3	1	18,6	11,006	7,323	PF11145.7	DUF2921	28,4	3,40E-07	No_clan
TRINITY_DN5242_c0_g3_i1_6	1	2,4	45,636	6,7699	PF03764.17	EFG_IV	85,6	2,00E-24	CL0329
TRINITY_DN19260_c0_g1_i1_1	1	23	10,876	10,03					
TRINITY_DN3078_c0_g1_i1_3	2	6,4	41,394	11,394	PF00557.23	Peptidase_M24	190,4	2,90E-56	No_clan
TRINITY_DN10865_c0_g2_i2_2	1	4,4	29,41	6,4238	PF09585.9	Lin0512_fam	134,3	1,60E-39	No_clan
TRINITY_DN17892_c1_g1_i1_5	1	8,5	25,007	7,9779	PF00450.21	Peptidase_S10	118,5	4,50E-34	CL0028
TRINITY_DN2656_c0_g1_i1_2	1	12,7	12,575	10,197					
TRINITY_DN22169_c0_g1_i1_5	1	12,2	9,7761	7,4081					
TRINITY_DN10693_c1_g1_i1_3	1	4,4	68,107	10,185	PF00400.31	WD40	29	1,20E-06	CL0186
TRINITY_DN7588_c0_g1_i2_5	1	6,5	27,45	9,7084	PF01105.23	EMP24_GP25L	167,9	1,90E-49	CL0521
TRINITY_DN1809_c0_g1_i1_3	2	6,3	40,903	11,411	PF03571.14	Peptidase_M49	32,9	2,10E-08	CL0126
TRINITY_DN10089_c0_g3_i1_3	1	2,7	59,881	7,0616	PF00076.21	RRM_1	47	1,50E-12	CL0221
TRINITY_DN2082_c1_g1_i1_3	1	12,8	13,1	8,0247	PF07714.16	Pkinase_Tyr	64,7	7,20E-18	CL0016
TRINITY_DN238_c0_g1_i1_3	2	27,1	7,5017	6,6494	PF08240.11	ADH_N	31,6	1,10E-07	CL0296
TRINITY_DN5724_c0_g2_i1_1	2	2,6	104,66	11,615	PF04727.12	ELMO_CED12	159,6	7,90E-47	No_clan
TRINITY_DN21573_c0_g1_i1_1	1	18,4	11,39	12,14					
TRINITY_DN11569_c0_g1_i2_3	1	5,8	33,132	15,892	PF10252.8	PP28	94,3	4,20E-27	No_clan
TRINITY_DN5094_c0_g1_i1_4	4	36,1	17,348	-2	PF00022.18	Actin	144,8	2,50E-42	CL0108
TRINITY_DN19637_c0_g1_i1_4	2	12,7	20,544	12,756	PF00365.19	PFK	134,6	3,90E-39	CL0240
TRINITY_DN4599_c0_g1_i1_1	1	2	61,444	6,4862	PF13091.5	PLDc_2	41	1,50E-10	CL0479
TRINITY_DN11898_c0_g1_i1_4	2	6,6	37,791	12,292	PF00117.27	GATase	191,5	1,10E-56	CL0014
TRINITY_DN13648_c0_g1_i1_3	1	9	16,596	6,7019					

TRINITY_DN22384_c0_g1_i1_6	2	28,9	13,439	14,115	PF00930.20	DPPIV_N	92,3	2,40E-26	CL0186
TRINITY_DN8593_c0_g1_i1_3	2	5,6	39,412	10,845					
TRINITY_DN6624_c0_g2_i2_2	2	6,9	48,256	12,504	PF11416.7	Syntaxin-5_N	21,7	7,70E-05	No_clan
TRINITY_DN8264_c0_g1_i2_1	2	5,3	58,59	13,381	PF16294.4	RSB_motif	52,6	4,50E-14	No_clan
TRINITY_DN7248_c0_g1_i1_5	2	16,2	12,855	10,752	PF00067.21	p450	37,4	1,20E-09	No_clan
TRINITY_DN19832_c0_g1_i1_3	2	24	13,029	11,348					
TRINITY_DN23704_c0_g1_i1_6	1	32,4	7,4204	6,5559	PF00205.21	TPP_enzyme_M	41,2	1,20E-10	CL0085
TRINITY_DN15338_c0_g1_i1_3	1	22,1	8,2351	7,8001					
TRINITY_DN9948_c0_g2_i1_3	1	10,8	20,491	20,335					
TRINITY_DN13388_c0_g1_i1_5	1	13,3	14,398	6,7395	PF03016.14	Exostosin	140,7	5,10E-41	No_clan
TRINITY_DN5559_c0_g1_i1_4	2	5,5	55,155	14,319	PF03367.12	zf-ZPR1	179,2	4,60E-53	CL0167
TRINITY_DN17697_c0_g1_i1_3	1	14,3	10,783	7,0844	PF03446.14	NAD_binding_2	54,9	1,00E-14	CL0063
TRINITY_DN5154_c0_g1_i1_5	1	4,2	47,317	7,9032	PF00076.21	RRM_1	49,3	3,00E-13	CL0221
TRINITY_DN20546_c0_g1_i1_1	1	9,8	19,169	7,7743	PF01645.16	Glu_synthase	168,6	2,10E-49	CL0036
TRINITY_DN6573_c0_g1_i1_4	2	7,2	48,971	11,719	PF01694.21	Rhomboid	83,9	1,00E-23	CL0207
TRINITY_DN3293_c0_g1_i1_2	2	7,8	34,861	11,367	PF09787.8	Golgin_A5	34,2	1,70E-08	No_clan
TRINITY_DN9459_c0_g2_i1_1	1	1,6	82,917	7,5232	PF00232.17	Glyco_hydro_1	112,1	2,00E-32	CL0058
TRINITY_DN4865_c0_g1_i1_1	1	9,5	32,216	10,293	PF07651.15	ANTH	31,7	6,90E-08	CL0009
TRINITY_DN3689_c0_g2_i1_5	2	5,7	40,504	12,008	PF04278.11	Tic22	367,8	2,10E-110	No_clan
TRINITY_DN2686_c0_g1_i1_5	1	2,9	36,38	6,5762	PF09835.8	DUF2062	56,9	1,90E-15	No_clan
TRINITY_DN4162_c0_g1_i1_5	2	7,3	39,645	10,864	PF04097.13	Nic96	98,5	3,10E-28	No_clan
TRINITY_DN14842_c0_g1_i1_3	2	26,4	9,3687	7,1569					
TRINITY_DN1392_c0_g2_i1_1	1	3,3	39,655	6,6941	PF10408.8	Ufd2P_core	147,7	4,50E-43	No_clan
TRINITY_DN3303_c0_g1_i1_3	1	7,3	23,662	15,463	PF09763.8	Sec3_C	72,9	1,80E-20	CL0295
TRINITY_DN5303_c0_g1_i1_3	1	5,7	30,141	7,0453	PF16897.4	MMR_HSR1_Xtn	143,5	2,00E-42	No_clan
TRINITY_DN3626_c0_g3_i1_6	1	8,8	17,018	7,6675	PF01981.15	PTH2	78,6	3,90E-22	CL0305
TRINITY_DN12852_c0_g1_i1_2	1	5,4	30,063	7,0351					
TRINITY_DN16500_c0_g1_i1_3	1	15,1	8,3025	7,1103					
TRINITY_DN13231_c0_g1_i1_1	2	12,7	27,708	20,186					
TRINITY_DN9164_c0_g1_i1_1	1	5,3	29,687	15,106	PF02941.14	FeThRed_A	95,8	1,20E-27	CL0610
TRINITY_DN6110_c0_g1_i2_1	2	7	33,805	11,242	PF13646.5	HEAT_2	40,8	2,00E-10	CL0020
TRINITY_DN9679_c0_g2_i6_4	2	4,9	56,322	11,714	PF00494.18	SQS_PSY	157,6	3,70E-46	CL0613
TRINITY_DN185_c0_g1_i1_1	1	2,3	37,766	6,3396	PF00999.20	Na_H_Exchanger	154,5	3,10E-45	CL0064

TRINITY_DN16939_c0_g1_i1_3	1	28,8	7,7616	9,0769	PF00501.27	AMP-binding	62,2	3,00E-17	CL0378
TRINITY_DN10156_c0_g1_i1_1	1	5,1	34,267	8,3548	PF01964.17	ThiC_Rad_SAM	47,4	1,10E-12	CL0036
TRINITY_DN9970_c0_g1_i3_1	1	6,7	20,355	7,1125					
TRINITY_DN11182_c0_g1_i1_5	2	12,4	26,331	12,438					
TRINITY_DN6813_c0_g2_i1_6	2	3,9	70,882	13,513	PF00171.21	Aldedh	413,1	1,10E-123	CL0099
TRINITY_DN18653_c0_g1_i1_5	1	6,4	25,449	7,7614					
TRINITY_DN17522_c0_g1_i1_4	1	7,6	12,69	6,7736	PF00153.26	Mito_carr	86,3	9,50E-25	No_clan
TRINITY_DN14413_c0_g1_i1_4	1	16,3	10,971	8,3608	PF06068.12	TIP49	168,2	2,50E-49	CL0023
TRINITY_DN5635_c0_g1_i1_5	2	7,9	48,782	13,361	PF00069.24	Pkinase	204,6	1,60E-60	CL0016
TRINITY_DN10294_c0_g1_i2_1	2	6,1	44,812	11,152					
TRINITY_DN19410_c0_g2_i1_2	2	15,7	17,517	11,643	PF10604.8	Polyketide_cyc2	85,8	2,90E-24	CL0209
TRINITY_DN3519_c0_g1_i1_4	1	4,3	30,599	6,4791					
TRINITY_DN10650_c0_g1_i3_2	1	7,1	16,816	6,6096	PF02325.16	YGGT	38,6	9,80E-10	No_clan
TRINITY_DN3798_c0_g1_i2_1	2	12,6	30,449	11,436	PF00928.20	Adap_comp_sub	295,5	3,00E-88	CL0448
TRINITY_DN2524_c0_g1_i1_2	1	13,2	17,857	6,9379	PF01841.18	Transglut_core	47,8	1,50E-12	CL0125
TRINITY_DN14304_c0_g1_i1_3	1	16,4	7,7214	7,1508					
TRINITY_DN10946_c0_g1_i1_3	2	4,2	61,613	11,811	PF00815.19	Histidinol_dh	535,2	1,00E-160	CL0099
TRINITY_DN4824_c0_g1_i1_6	1	7,4	13,322	6,5675	PF06487.11	SAP18	96	1,90E-27	CL0072
TRINITY_DN1455_c0_g1_i1_5	2	6,9	31,275	11,745	PF13561.5	adh_short_C2	141,6	2,70E-41	CL0063
TRINITY_DN19943_c0_g1_i1_1	1	18,1	11,214	6,8897					
TRINITY_DN7659_c0_g1_i2_1	1	10,1	16,082	64,119	PF00076.21	RRM_1	85,5	1,50E-24	CL0221
TRINITY_DN18303_c0_g1_i1_2	1	9,9	15,634	10,081					
TRINITY_DN7752_c0_g1_i1_1	2	10,1	32,433	12,27	PF09335.10	SNARE_assoc	71,3	8,80E-20	No_clan
TRINITY_DN3113_c0_g1_i1_2	1	9,8	20,031	7,3014	PF00443.28	UCH	49,4	3,80E-13	CL0125
TRINITY_DN13954_c0_g1_i1_5	1	6,3	17,522	6,4446	PF00248.20	Aldo_ket_red	97,2	8,60E-28	No_clan
TRINITY_DN9113_c0_g1_i1_6	1	2,3	73,14	7,9169	PF06472.14	ABC_membrane_2	221,5	1,30E-65	CL0241
TRINITY_DN2642_c0_g1_i1_1	1	3,3	43,047	7,2108	PF02574.15	S-methyl_trans	262,8	3,90E-78	No_clan
TRINITY_DN9696_c0_g1_i1_5	2	12,3	27,758	12,394	PF08661.10	Rep_fac-A_3	66,1	2,90E-18	CL0021
TRINITY_DN2508_c0_g1_i1_3	1	5,1	34,853	9,8405	PF00291.24	PALP	251,6	9,40E-75	No_clan
TRINITY_DN8157_c0_g1_i1_3	1	4,8	31,23	8,144	PF00571.27	CBS	48,5	8,00E-13	No_clan
TRINITY_DN20773_c0_g1_i1_5	1	12,1	14,124	7,421	PF02897.14	Peptidase_S9_N	90	1,20E-25	CL0186
TRINITY_DN2427_c0_g1_i1_5	2	8,8	33,871	10,836					

TRINITY_DN566_c0_g2_i1_1	1	3,3	41,01	6,6046	PF00535.25	Glycos_transf_2	80,3	1,30E-22	CL0110
TRINITY_DN1856_c0_g2_i1_3	1	11,8	15,541	6,801					
TRINITY_DN3611_c0_g1_i2_3	1	2,8	55,875	6,5212	PF01535.19	PPR	26,3	5,00E-06	CL0020
TRINITY_DN8137_c0_g1_i1_6	1	12,2	16,592	7,401					
TRINITY_DN4839_c0_g2_i1_2	1	19,1	14,958	7,8127					
TRINITY_DN10092_c0_g1_i1_3	2	3,2	58,53	10,61	PF00646.32	F-box	24,7	1,40E-05	CL0271
TRINITY_DN8102_c0_g1_i1_6	2	5,1	68,223	13,899	PF03152.13	UFD1	160,1	3,20E-47	CL0402
TRINITY_DN2436_c0_g1_i1_2	1	4,9	32,959	7,4152	PF13602.5	ADH_zinc_N_2	78,1	1,10E-21	CL0063
TRINITY_DN9750_c0_g2_i3_3	1	5,3	26,797	6,5161	PF00076.21	RRM_1	23,8	2,60E-05	CL0221
TRINITY_DN13772_c0_g1_i1_5	1	15,1	7,9869	7,7693					
TRINITY_DN20973_c0_g1_i1_1	1	30,7	8,5286	25,411	PF00069.24	Pkinase	66,8	1,70E-18	CL0016
TRINITY_DN13500_c0_g1_i1_1	1	3	39,647	6,5426					
TRINITY_DN19696_c0_g1_i1_1	1	11,2	13,668	9,8302					
TRINITY_DN18663_c0_g1_i1_3	4	20,4	31,08	6,4619	PF00311.16	PEPcase	102,8	1,30E-29	CL0151
TRINITY_DN10941_c0_g1_i2_2	1	6	24,808	6,8825	PF00252.17	Ribosomal_L16	127	4,10E-37	No_clan
TRINITY_DN205_c0_g2_i1_3	2	6,4	34,194	13,232	PF00697.21	PRAI	139,2	1,30E-40	CL0036
TRINITY_DN10620_c0_g1_i1_3	2	6,1	43,003	12,852	PF00153.26	Mito_carr	64	8,40E-18	No_clan
TRINITY_DN12943_c0_g1_i1_3	1	18,9	13,192	6,3313	PF13589.5	HATPase_c_3	32,7	5,30E-08	CL0025
TRINITY_DN2735_c0_g1_i1_2	1	4,9	24,676	6,4331					
TRINITY_DN15045_c0_g1_i1_3	1	13,3	10,233	6,5415	PF03097.17	BRO1	69,9	1,60E-19	No_clan
TRINITY_DN17024_c0_g1_i1_1	1	11,2	11,383	7,1508	PF00202.20	Aminotran_3	92,7	1,70E-26	CL0061
TRINITY_DN4004_c0_g1_i1_6	1	5,6	29,667	-2	PF08711.10	Med26	46,5	2,50E-12	No_clan
TRINITY_DN12269_c0_g2_i1_2	1	6,6	20,551	6,6145					
TRINITY_DN9455_c0_g1_i1_6	1	3,7	29,262	6,3538	PF02678.15	Pirin	47,3	1,60E-12	CL0029
TRINITY_DN7173_c0_g2_i1_4	1	5	30,917	6,3209					
TRINITY_DN5388_c0_g2_i1_3	1	5,7	20,547	6,3799	PF09360.9	zf-CDGSH	38,1	1,20E-09	No_clan
TRINITY_DN10533_c0_g1_i4_1	2	5,8	65,751	13,052	PF00013.28	KH_1	27,3	2,10E-06	CL0007
TRINITY_DN15880_c0_g1_i1_6	1	17,1	8,0058	6,418					
TRINITY_DN21652_c0_g1_i1_3	1	21,9	8,122	9,8655	PF01116.19	F_bP_aldolase	49,8	3,00E-13	CL0036
TRINITY_DN22321_c0_g1_i1_6	1	10,5	14,842	6,7012					
TRINITY_DN12098_c0_g2_i1_2	1	13	14,723	7,7636					
TRINITY_DN6146_c0_g1_i2_4	1	5,7	27,398	7,0616	PF04430.13	DUF498	107	4,50E-31	No_clan
TRINITY_DN8428_c0_g1_i1_3	2	9	38,808	12,45	PF00933.20	Glyco_hydro_3	119,7	1,50E-34	CL0058

TRINITY_DN17847_c0_g2_i1_2	1	4,6	38,866	7,0887					
TRINITY_DN4796_c0_g1_i1_2	2	7,7	31,716	13,055					
TRINITY_DN5072_c0_g1_i1_1	1	5,7	27,322	7,3411	PF00297.21	Ribosomal_L3	68,6	4,30E-19	CL0575
TRINITY_DN6088_c0_g1_i4_1	2	10,6	33,893	13,549	PF05742.11	TANGO2	242,4	6,80E-72	No_clan
TRINITY_DN15797_c0_g1_i1_2	1	8,8	12,414	6,3549	PF01963.16	TraB	28,8	1,00E-06	CL0572
TRINITY_DN18297_c0_g2_i1_1	2	7,5	45,065	11,753	PF00288.25	GHMP_kinases_N	73,2	1,40E-20	CL0329
TRINITY_DN17041_c0_g1_i1_1	1	4	36,605	6,418	PF12146.7	Hydrolase_4	181,9	1,10E-53	CL0028
TRINITY_DN7113_c0_g1_i3_4	1	6,2	23,284	7,3751	PF03656.12	Pam16	78,5	4,00E-22	CL0392
TRINITY_DN12379_c0_g1_i1_3	1	16,5	9,2894	6,6689	PF05761.13	5_nucleotid	88,5	4,10E-25	CL0137
TRINITY_DN15487_c0_g1_i1_3	1	16,3	10,679	12,055					
TRINITY_DN3915_c0_g1_i1_3	1	8	19,855	6,9426	PF04178.11	Got1	103,7	6,80E-30	No_clan
TRINITY_DN11583_c1_g3_i2_2	2	5,1	56,012	6,5161					
TRINITY_DN11439_c0_g1_i3_4	3	16,5	35,446	7,5342	PF00227.25	Proteasome	107,1	7,10E-31	CL0052
TRINITY_DN7466_c0_g3_i1_3	2	2,4	85,033	11,639	PF01434.17	Peptidase_M41	139,3	1,20E-40	CL0126
TRINITY_DN11372_c0_g1_i1_1	2	5,9	48,906	12,539	PF02176.17	zf-TRAF	41,5	1,50E-10	CL0389
TRINITY_DN2241_c0_g1_i1_2	1	21,1	15,469	7,3234	PF00698.20	Acyl_transf_1	47,5	1,60E-12	CL0323
TRINITY_DN2564_c0_g1_i1_3	2	3,2	90,747	13,43					
TRINITY_DN4503_c0_g1_i1_2	1	5,9	22,296	6,567	PF01370.20	Epimerase	47,1	1,90E-12	CL0063
TRINITY_DN8115_c0_g1_i1_2	2	2,8	113,6	11,564	PF04065.14	Not3	280,3	9,50E-84	No_clan
TRINITY_DN271_c0_g1_i1_6	1	16,5	9,2734	6,3527	PF00933.20	Glyco_hydro_3	39,6	3,70E-10	CL0058
TRINITY_DN12627_c0_g1_i1_5	1	6,4	16,743	6,3777	PF02458.14	Transferase	58,1	5,70E-16	CL0149
TRINITY_DN6168_c0_g2_i1_3	1	4,9	19,799	6,6902	PF05173.13	DapB_C	72,5	2,80E-20	CL0063
TRINITY_DN15083_c0_g1_i1_4	1	17,3	9,0149	6,9744					
TRINITY_DN22088_c0_g1_i1_2	2	37,5	7,8627	12,724					
TRINITY_DN10295_c0_g1_i4_2	1	11,3	21,86	6,3785					
TRINITY_DN13908_c0_g1_i1_1	2	19,1	15,248	12,244	PF05761.13	5_nucleotid	123,1	1,30E-35	CL0137
TRINITY_DN250_c0_g2_i1_3	1	11,7	13,999	10,25	PF02263.18	GBP	25,4	7,20E-06	CL0023
TRINITY_DN9708_c0_g1_i1_2	2	3,5	60,575	12,802	PF00450.21	Peptidase_S10	475,7	1,60E-142	CL0028
TRINITY_DN14410_c0_g1_i1_1	1	12,8	13,922	6,6498					
TRINITY_DN2548_c0_g2_i1_4	1	5,1	45,387	9,9891	PF00999.20	Na_H_Exchanger	99,5	1,60E-28	CL0064
TRINITY_DN6286_c0_g1_i1_1	1	17,5	10,594	7,982					
TRINITY_DN17369_c0_g1_i1_5	1	4	37,115	8,1387					
TRINITY_DN8472_c0_g1_i1_2	3	16,9	19,025	11,433	PF00076.21	RRM_1	32,6	5,00E-08	CL0221

TRINITY_DN4972_c0_g1_i4_1	2	5,3	61,78	13,268	PF00149.27	Metallophos	116,9	1,60E-33	CL0163
TRINITY_DN9379_c0_g1_i3_2	1	8,9	18,673	64,313	PF04614.11	Pex19	77,9	9,00E-22	No_clan
TRINITY_DN23442_c0_g1_i1_5	1	16	8,4648	6,6239	PF09285.10	Elong-fact-P_C	52,6	2,60E-14	CL0021
TRINITY_DN20268_c0_g1_i1_5	1	22,5	8,986	6,7177					
TRINITY_DN2087_c1_g1_i1_3	1	5,1	33,131	6,4984	PF02713.13	DUF220	114,2	2,00E-33	No_clan
TRINITY_DN9218_c0_g1_i7_3	1	2,6	70,743	6,5211	PF08606.10	Prp19	107,1	3,00E-31	No_clan
TRINITY_DN12527_c0_g1_i1_2	1	6,1	25,393	7,3556	PF00534.19	Glycos_transf_1	32,1	7,30E-08	CL0113
TRINITY_DN22389_c0_g1_i1_6	1	13,5	11,481	9,53					
TRINITY_DN9732_c0_g1_i3_2	1	9,3	28,429	7,6393	PF04051.15	TRAPP	147,7	1,80E-43	CL0210
TRINITY_DN9091_c0_g1_i1_3	1	13,8	16,44	7,1576					
TRINITY_DN1560_c0_g1_i1_1	1	4,5	21,762	6,6564					
TRINITY_DN14904_c0_g1_i1_6	1	19	10,518	9,7179	PF07992.13	Pyr_redox_2	30	2,80E-07	CL0063
TRINITY_DN12383_c0_g1_i1_2	1	14,5	9,2853	6,5642	PF00249.30	Myb_DNA-binding	29,5	5,80E-07	CL0123
TRINITY_DN5000_c0_g1_i1_6	2	5	66,89	13,964					
TRINITY_DN2849_c0_g1_i1_4	2	5,1	40,325	10,676	PF00899.20	ThiF	203,5	3,00E-60	CL0063
TRINITY_DN11583_c1_g1_i2_1	2	4,3	64,793	11,692	PF00069.24	Pkinase	93,4	1,40E-26	CL0016
TRINITY_DN11555_c0_g1_i1_4	1	0,8	143,46	-2					
TRINITY_DN11211_c0_g2_i4_2	1	4,9	24,48	6,4706	PF05755.11	REF	167,6	3,00E-49	No_clan
TRINITY_DN10288_c0_g2_i1_3	1	2,8	54,485	7,6772					
TRINITY_DN16723_c0_g1_i1_1	2	28,6	8,5176	14,146					
TRINITY_DN5420_c0_g1_i1_2	1	3,4	68,77	6,6052	PF01501.19	Glyco_transf_8	26,5	3,80E-06	CL0110
TRINITY_DN15186_c0_g1_i1_2	1	14,2	12,791	7,3367	PF06644.10	ATP11	66,9	2,20E-18	No_clan
TRINITY_DN6233_c0_g1_i4_1	1	8,9	28,849	6,6219					
TRINITY_DN4088_c0_g1_i1_1	1	2,7	61,92	6,354					
TRINITY_DN1341_c0_g1_i2_3	1	15,2	11,532	6,8661	PF12874.6	zf-met	21,3	0,00023	CL0361
TRINITY_DN5675_c0_g1_i3_1	1	4,1	46,39	7,7783					
TRINITY_DN5431_c0_g2_i1_2	1	2,5	47,894	7,2977	PF13920.5	zf-C3HC4_3	57,3	9,70E-16	CL0229
TRINITY_DN9005_c1_g1_i3_1	1	3,9	44,046	9,3077	PF01758.15	SBF	170,9	2,30E-50	CL0064
TRINITY_DN22172_c0_g1_i1_3	1	18,1	10,281	7,7743					
TRINITY_DN5643_c0_g2_i1_3	2	6,1	51,799	12,583	PF00091.24	Tubulin	132,7	1,70E-38	CL0566
TRINITY_DN18093_c0_g1_i1_1	1	6,1	28,615	6,5541					
TRINITY_DN8505_c0_g1_i1_3	1	5,9	26,87	7,7964	PF01230.22	HIT	87,1	9,80E-25	CL0265

TRINITY_DN3938_c0_g1_i1_2	1	3,6	54,813	8,5182	PF00620.26	RhoGAP	103,6	7,70E-30	CL0409
TRINITY_DN11081_c0_g1_i2_3	1	4,3	58,635	6,6538					
TRINITY_DN8657_c0_g1_i1_3	2	11,6	18,149	12,035	PF13637.5	Ank_4	62,2	4,00E-17	CL0465
TRINITY_DN18007_c0_g1_i1_2	1	5,7	19,708	6,385					
TRINITY_DN11493_c0_g1_i3_3	1	7,6	18,353	6,3527					
TRINITY_DN11659_c1_g1_i3_5	4	10,1	66,479	6,8939	PF00171.21	Aldedh	602,1	5,20E-181	CL0099
TRINITY_DN11367_c0_g1_i1_2	1	3,8	37,353	6,4022	PF02567.15	PhzC-PhzF	293,7	1,30E-87	CL0288
TRINITY_DN14035_c0_g1_i1_1	1	16,8	10,114	-2					
TRINITY_DN7672_c0_g2_i3_6	1	5,5	36,395	6,4576	PF01399.26	PCI	91,1	5,30E-26	CL0123
TRINITY_DN4363_c0_g1_i1_2	1	3,9	61,999	7,8636	PF00501.27	AMP-binding	305	6,20E-91	CL0378
TRINITY_DN9570_c0_g1_i2_6	1	2,4	61,769	7,7462					
TRINITY_DN12047_c0_g1_i1_5	1	10,8	15,951	6,401					
TRINITY_DN8161_c0_g1_i1_2	1	4,2	31,702	6,496	PF00572.17	Ribosomal_L13	153,1	3,80E-45	No_clan
TRINITY_DN9497_c1_g1_i1_5	1	16,5	12,353	8,865	PF05347.14	Complex1_LYR	43,3	2,50E-11	CL0491
TRINITY_DN18064_c0_g1_i1_5	1	9,8	14,455	6,2753	PF08302.10	tRNA_lig_CPD	22,3	6,70E-05	No_clan
TRINITY_DN3901_c0_g1_i1_6	1	8,6	17,623	7,9065	PF06747.12	CHCH	32,8	4,90E-08	CL0351
TRINITY_DN9544_c0_g1_i2_3	1	3,3	30,976	6,6564	PF00583.24	Acetyltransf_1	54,6	1,10E-14	CL0257
TRINITY_DN5823_c2_g1_i1_1	1	8,6	15,229	7,0109					
TRINITY_DN10520_c0_g1_i1_2	1	3	84,024	13,523	PF06419.10	COG6	748	6,10E-225	CL0295
TRINITY_DN11739_c0_g2_i1_5	1	7,4	25,671	6,9085	PF13516.5	LRR_6	15,9	0,009	CL0022
TRINITY_DN950_c0_g2_i1_5	2	15,3	20,255	11,35	PF00098.22	zf-CCHC	27,1	2,80E-06	CL0511
TRINITY_DN1342_c0_g2_i1_1	2	6,7	37,846	-2	PF00270.28	DEAD	74,9	6,00E-21	CL0023
TRINITY_DN10787_c0_g2_i1_6	1	3,6	59,26	6,5997	PF00201.17	UDPGT	73,1	1,80E-20	CL0113
TRINITY_DN15996_c0_g1_i1_5	1	6,9	18,17	6,4862	PF08699.9	ArgoL1	66,8	8,50E-19	No_clan
TRINITY_DN13943_c0_g1_i1_2	1	14,4	13,11	7,0602					
TRINITY_DN4307_c0_g2_i2_3	1	1,7	77,962	6,5199	PF01661.20	Macro	91,9	2,60E-26	CL0223
TRINITY_DN13850_c0_g1_i1_2	2	26,5	9,4353	7,382	PF00076.21	RRM_1	39,1	4,50E-10	CL0221
TRINITY_DN22319_c0_g1_i1_6	1	15,2	12,561	9,5812					
TRINITY_DN19381_c0_g1_i1_1	1	3,8	43,003	6,9889					
TRINITY_DN17549_c0_g1_i1_3	1	5,9	18,897	6,6841	PF01103.22	Bac_surface_Ag	101,4	6,10E-29	CL0193
TRINITY_DN15080_c0_g2_i1_2	1	4,6	33,305	6,2823	PF05071.15	NDUFA12	44,1	2,50E-11	No_clan
TRINITY_DN18817_c0_g1_i1_6	1	11,5	9,595	6,4446	PF05368.12	NmrA	54,1	1,40E-14	CL0063
TRINITY_DN11009_c0_g1_i1_1	1	10,8	16,243	7,0607	PF14541.5	TAXi_C	79,4	2,40E-22	CL0129

TRINITY_DN8994_c0_g2_i2_3	1	5	26,002	6,3787	PF00582.25	Usp	99,8	1,70E-28	CL0039
TRINITY_DN17962_c0_g1_i1_6	1	8,9	11,903	6,4166					
TRINITY_DN7296_c0_g1_i1_3	2	3,6	69,775	12,087	PF00076.21	RRM_1	58,8	3,10E-16	CL0221
TRINITY_DN17826_c0_g2_i1_1	2	8,4	61,171	11,583	PF00069.24	Pkinase	216	5,40E-64	CL0016
TRINITY_DN12326_c0_g1_i1_4	1	5,7	25,014	6,3399					
TRINITY_DN2620_c0_g2_i2_2	1	8,9	26,774	6,6935	PF01423.21	LSM	56	2,10E-15	CL0527
TRINITY_DN2361_c0_g1_i1_2	1	15,3	13,004	6,6536	PF05653.13	Mg_trans_NIPA	47	1,70E-12	CL0184
TRINITY_DN1411_c0_g1_i1_5	1	3,6	33,05	6,6096	PF01268.18	FTHFS	329,1	3,40E-98	CL0023
TRINITY_DN11963_c0_g1_i1_5	1	20,8	7,3995	7,1228					
TRINITY_DN9986_c0_g1_i2_1	1	2,1	64,68	6,6039	PF01545.20	Cation_efflux	118,8	2,20E-34	No_clan
TRINITY_DN3850_c0_g1_i1_2	1	3,2	46,827	6,418	PF02446.16	Glyco_hydro_77	418,2	3,80E-125	CL0058
TRINITY_DN13162_c0_g1_i1_5	2	17,1	23,032	-2	PF16190.4	E1_FCCH	97,9	2,60E-28	No_clan
TRINITY_DN6999_c1_g1_i1_1	1	7,1	24,777	8,3918	PF01975.16	SurE	148,5	1,80E-43	No_clan
TRINITY_DN6417_c0_g2_i1_1	2	5,6	45,937	11,927	PF01633.19	Choline_kinase	213,3	2,80E-63	CL0016
TRINITY_DN11852_c0_g1_i1_2	1	3,7	35,315	7,1393	PF00763.22	THF_DHG_CYH	96,8	8,60E-28	CL0603
TRINITY_DN3994_c0_g1_i1_6	1	8,7	17,887	7,1141					
TRINITY_DN10757_c0_g1_i6_3	2	9,1	28,317	11,055	PF00255.18	GSHPx	152,2	2,90E-45	CL0172
TRINITY_DN858_c0_g2_i1_3	2	8,4	40,784	7,7935	PF00483.22	NTP_transferase	50	2,60E-13	CL0110
TRINITY_DN23297_c0_g1_i1_4	1	12,6	9,617	7,2012					
TRINITY_DN19876_c0_g1_i1_6	1	7,9	13,503	6,2896					
TRINITY_DN11014_c0_g1_i1_4	1	8,4	23,683	6,5656	PF00582.25	Usp	82,3	4,20E-23	CL0039
TRINITY_DN13986_c1_g1_i1_2	1	12,2	10,375	6,9417					
TRINITY_DN4916_c0_g2_i1_4	1	10,9	16,879	9,5812					
TRINITY_DN13205_c0_g1_i1_2	1	6,1	25,254	6,8586					
TRINITY_DN2844_c0_g1_i1_3	1	8,6	18,776	7,4689					
TRINITY_DN19026_c0_g1_i1_2	1	9,4	13,8	6,5283	PF08569.10	Mo25	106,6	1,50E-30	CL0020
TRINITY_DN10596_c0_g1_i1_3	1	1,7	78,527	6,2669	PF13855.5	LRR_8	36,4	3,00E-09	CL0022
TRINITY_DN11089_c0_g1_i1_6	1	3	44,518	6,5642	PF00076.21	RRM_1	63,7	9,30E-18	CL0221
TRINITY_DN1625_c0_g1_i1_1	1	23,7	10,208	8,2909	PF07983.12	X8	69	3,90E-19	No_clan
TRINITY_DN4295_c0_g1_i2_2	1	14,6	16,968	7,821					
TRINITY_DN21571_c0_g1_i1_3	1	14,5	8,3188	6,7271					
TRINITY_DN9775_c0_g1_i1_1	2	7,8	33,121	13,183	PF00407.18	Bet_v_1	44,9	1,00E-11	CL0209
TRINITY_DN17721_c0_g1_i1_3	1	5,7	38,354	6,7956	PF00364.21	Biotin_lipoyl	84,4	3,40E-24	CL0105

TRINITY_DN11860_c0_g1_i1_4	1	9	23,564	6,5581	PF09742.8	Dymeclin	80,1	1,20E-22	CL0456
TRINITY_DN19531_c0_g1_i1_1	1	8	21,912	9,4491					
TRINITY_DN194_c0_g2_i1_1	1	5,2	30,547	6,9104	PF13812.5	PPR_3	25,6	8,60E-06	CL0020
TRINITY_DN426_c0_g1_i1_2	1	4,5	26,568	6,8372					
TRINITY_DN23380_c0_g1_i1_2	1	10,5	11,275	6,5426	PF01116.19	F_bP_aldolase	81,7	5,50E-23	CL0036
TRINITY_DN7432_c0_g1_i1_5	1	3,6	35,795	7,2438	PF00266.18	Aminotran_5	349	2,60E-104	CL0061
TRINITY_DN9824_c0_g2_i1_2	1	5,4	20,609	10,358	PF00462.23	Glutaredoxin	72,9	1,70E-20	CL0172
TRINITY_DN14943_c0_g1_i1_3	1	14	13,885	7,7191	PF02878.15	PGM_PMM_I	37,6	1,50E-09	No_clan
TRINITY_DN4390_c0_g1_i2_1	5	12,9	45,275	8,2121	PF00364.21	Biotin_lipoyl	56,8	1,30E-15	CL0105
TRINITY_DN3895_c0_g2_i1_2	1	4,8	32,684	7,2119					
TRINITY_DN2101_c0_g1_i1_2	1	41	8,9646	18,462					
TRINITY_DN22364_c0_g1_i1_6	1	14,9	7,8548	7,2689	PF09763.8	Sec3_C	33,8	1,10E-08	CL0295
TRINITY_DN3021_c0_g2_i1_6	1	3,4	50,262	7,2445	PF00294.23	PfkB	94,5	6,70E-27	CL0118
TRINITY_DN1919_c0_g1_i1_1	1	3,8	45,693	6,7027	PF01593.23	Amino_oxidase	138,5	3,70E-40	CL0063
TRINITY_DN11220_c1_g3_i1_3	1	4,7	24,908	6,4331	PF13561.5	adh_short_C2	174,1	3,10E-51	CL0063
TRINITY_DN8579_c0_g2_i1_1	1	3,3	50,322	10,004	PF00562.27	RNA_pol_Rpb2_6	281,8	8,40E-84	CL0410
TRINITY_DN7867_c0_g1_i4_3	1	5,5	25,502	6,786	PF10607.8	CLTH	128,6	1,60E-37	No_clan
TRINITY_DN11046_c0_g1_i2_2	1	2	80,982	7,8712	PF00651.30	BTB	30,3	3,70E-07	CL0033
TRINITY_DN8640_c0_g1_i1_1	1	5,8	26,874	6,9022	PF00168.29	C2	82,5	2,10E-23	CL0154
TRINITY_DN2390_c0_g2_i1_1	1	6,6	21,208	7,1548	PF16123.4	HAGH_C	88,2	3,40E-25	CL0381
TRINITY_DN12575_c0_g1_i1_3	1	4,6	28,663	6,496	PF00999.20	Na_H_Exchanger	54,6	6,90E-15	CL0064
TRINITY_DN10417_c0_g2_i1_1	1	3	46,055	7,1393	PF00566.17	RabGAP-TBC	173,5	4,40E-51	No_clan
TRINITY_DN17426_c0_g1_i1_6	1	5,6	21,752	7,3011					
TRINITY_DN9926_c0_g1_i2_5	1	7,4	14,86	6,5762					
TRINITY_DN2534_c0_g1_i1_4	1	12,2	17,295	6,7115	PF13890.5	Rab3-GTPase_cat	173,7	2,20E-51	No_clan
TRINITY_DN2915_c0_g1_i1_3	1	18,4	8,2212	7,0616	PF01039.21	Carboxyl_trans	42,6	2,90E-11	CL0127
TRINITY_DN11633_c0_g1_i3_5	1	3,4	64,55	7,312					
TRINITY_DN15398_c0_g1_i1_5	1	14,6	15,056	6,5997	PF16940.4	Tic110	226	7,60E-67	No_clan
TRINITY_DN5905_c0_g1_i1_3	1	4,3	38,982	6,5757					
TRINITY_DN9808_c0_g1_i1_1	1	6,6	42,76	6,9133	PF01027.19	Bax1-I	160,2	5,30E-47	CL0453
TRINITY_DN10830_c0_g1_i1_1	1	2,8	39,459	6,3161					
TRINITY_DN5571_c0_g1_i2_2	1	5,9	28,807	7,0453					
TRINITY_DN14099_c0_g1_i1_1	1	8	21,546	7,0453					

TRINITY_DN1513_c0_g1_i1_1	1	7,1	23,814	7,7943	PF13041.5	PPR_2	50,6	1,50E-13	CL0020
TRINITY_DN9703_c0_g1_i1_1	1	5,8	34,852	16,322	PF08507.9	COPI_assoc	67,3	1,20E-18	No_clan
TRINITY_DN30_c0_g1_i1_2	1	3,7	41,921	6,9103	PF00069.24	Pkinase	104,4	5,80E-30	CL0016
TRINITY_DN4271_c0_g2_i1_6	1	7,4	24,208	8,0317	PF00248.20	Aldo_ket_red	110,9	5,80E-32	No_clan
TRINITY_DN9637_c0_g1_i2_1	1	2,7	50,299	6,4921	PF03463.14	eRF1_1	174,3	9,70E-52	No_clan
TRINITY_DN14624_c0_g1_i1_5	1	11,7	11,86	6,3399	PF00664.22	ABC_membrane	39,6	4,40E-10	CL0241
TRINITY_DN7843_c0_g1_i2_1	1	11,7	12,529	7,1412	PF03179.14	V-ATPase_G	91,9	2,90E-26	CL0255
TRINITY_DN14064_c0_g1_i1_1	1	9	13,638	7,1926					
TRINITY_DN19958_c0_g1_i1_2	1	33,3	7,7041	6,3022					
TRINITY_DN12317_c0_g2_i1_2	1	10,6	16,424	7,557	PF00248.20	Aldo_ket_red	46	3,50E-12	No_clan
TRINITY_DN106_c0_g1_i1_6	1	4,4	30,431	6,4238	PF00485.17	PRK	30,3	3,00E-07	CL0023
TRINITY_DN10121_c0_g1_i2_2	1	2,9	45,307	7,1941					
TRINITY_DN16265_c0_g1_i1_6	1	9,7	15,335	7,5944					
TRINITY_DN22994_c0_g1_i1_2	1	24,4	9,4857	6,6368					
TRINITY_DN16148_c0_g1_i1_2	1	15,2	10,501	6,9889	PF01565.22	FAD_binding_4	52,5	3,80E-14	CL0077
TRINITY_DN10093_c0_g1_i1_4	1	2,4	50,687	6,5426					
TRINITY_DN13095_c0_g1_i1_2	1	3,4	42,2	6,9537	PF00781.23	DAGK_cat	73,4	1,10E-20	CL0240
TRINITY_DN6032_c0_g1_i1_1	1	4,3	31,479	6,3399	PF04695.12	Pex14_N	91,8	6,50E-26	No_clan
TRINITY_DN4104_c0_g1_i2_2	1	15,5	19,856	7,215	PF07059.11	DUF1336	55,9	5,60E-15	No_clan
TRINITY_DN11490_c0_g1_i4_6	1	9,9	15,441	6,8825					
TRINITY_DN11358_c0_g1_i2_2	1	2,7	54,866	7,3751	PF06273.10	eIF-4B	28,7	6,30E-07	No_clan
TRINITY_DN5926_c0_g1_i1_3	2	10	21,662	-2					
TRINITY_DN10755_c0_g1_i3_1	1	6,7	20,844	6,3282					
TRINITY_DN13112_c0_g1_i1_5	1	14,4	9,6462	6,3118					
TRINITY_DN1601_c0_g1_i1_6	1	6,3	16,997	6,5762	PF11282.7	DUF3082	101	3,00E-29	No_clan
TRINITY_DN20005_c0_g1_i1_6	2	13,7	21,229	11,717	PF02883.19	Alpha_adaptinC2	51,8	7,60E-14	CL0159
TRINITY_DN9298_c0_g1_i2_6	1	4,8	27,736	6,7013	PF03141.15	Methyltransf_29	205	1,60E-60	CL0063
TRINITY_DN10791_c2_g1_i1_2	5	25,9	33,379	11,154	PF00724.19	Oxidored_FMN	250,7	2,10E-74	CL0036
TRINITY_DN12338_c0_g1_i1_2	1	8,4	16,687	7,1747	PF08323.10	Glyco_transf_5	35,4	8,30E-09	CL0113
TRINITY_DN2894_c0_g1_i1_6	1	11,4	11,73	6,654	PF00443.28	UCH	28,8	7,70E-07	CL0125
TRINITY_DN9321_c0_g1_i1_1	1	3,7	38,202	6,3399					
TRINITY_DN8786_c1_g1_i1_3	1	12,1	23,921	7,8979	PF03016.14	Exostosin	30,8	1,60E-07	No_clan
TRINITY_DN8717_c0_g1_i1_1	1	2,4	79,982	6,6409	PF00899.20	ThiF	245,9	3,50E-73	CL0063

TRINITY_DN266_c0_g2_i2_2	1	3,2	60,824	6,7237	PF09412.9	XendoU	331,6	2,80E-99	No_clan
TRINITY_DN10315_c0_g1_i3_3	1	3,9	45,85	6,3285	PF04144.12	SCAMP	182,7	6,80E-54	No_clan
TRINITY_DN19933_c0_g1_i1_3	1	11,3	16,291	9,3323					
TRINITY_DN9610_c0_g1_i5_6	1	2,8	43,73	7,3117	PF00076.21	RRM_1	41,3	9,30E-11	CL0221
TRINITY_DN3076_c0_g1_i1_4	1	2,7	50,709	6,9658	PF13519.5	VWA_2	98,2	3,60E-28	CL0128
TRINITY_DN10575_c0_g1_i1_1	1	3,2	41,149	7,1941	PF06364.11	DUF1068	276,3	7,80E-83	No_clan
TRINITY_DN14305_c0_g1_i1_5	1	8,6	16,074	6,6046	PF02121.17	IP_trans	163,7	5,00E-48	CL0209
TRINITY_DN11352_c0_g1_i1_1	1	3,6	72,115	6,6876	PF12220.7	U1snRNP70_N	71,5	6,40E-20	CL0221
TRINITY_DN6147_c0_g1_i2_6	1	9,4	19,468	6,3287					
TRINITY_DN10057_c1_g1_i2_3	1	13,1	16,685	7,5406	PF00203.20	Ribosomal_S19	66,9	1,00E-18	No_clan
TRINITY_DN13010_c0_g1_i1_1	1	19,5	8,7248	6,2965					
TRINITY_DN2392_c0_g1_i1_2	1	3,1	47,647	6,9631					
TRINITY_DN9690_c0_g1_i2_3	1	2,9	42,62	6,8372	PF05739.18	SNARE	43,7	1,90E-11	No_clan
TRINITY_DN11443_c0_g1_i1_3	1	2,7	41,451	6,6112	PF01370.20	Epimerase	88,8	3,50E-25	CL0063
TRINITY_DN14199_c0_g1_i1_6	1	7,9	16,844	6,2996	PF00924.17	MS_channel	24,4	1,70E-05	No_clan
TRINITY_DN7984_c0_g1_i2_3	1	7,9	19,459	7,7193					
TRINITY_DN15785_c0_g1_i1_6	1	19,8	9,8775	6,6763	PF01031.19	Dynamin_M	38,6	6,40E-10	No_clan
TRINITY_DN21396_c0_g1_i1_3	1	9,7	15,011	6,6239	PF01762.20	Galactosyl_T	36,1	5,20E-09	CL0110
TRINITY_DN7330_c0_g1_i1_3	1	3,1	50,858	6,3209	PF00270.28	DEAD	145,8	1,00E-42	CL0023
TRINITY_DN9918_c0_g2_i5_3	3	5,7	57,711	11,83	PF02874.22	ATP-synt_ab_N	58,9	5,00E-16	CL0275
TRINITY_DN10206_c0_g8_i1_3	1	3,4	50,523	6,4751	PF00069.24	Pkinase	247,2	1,60E-73	CL0016
TRINITY_DN21905_c0_g1_i1_6	1	16,2	8,5256	6,3677					
TRINITY_DN20071_c0_g1_i1_6	1	15	10,555	6,3931					
TRINITY_DN8834_c0_g1_i4_2	1	7,4	27,023	6,6479	PF01521.19	Fe-S_biosyn	70,4	1,20E-19	No_clan
TRINITY_DN10839_c0_g1_i3_6	1	14,7	23,853	6,8404	PF04800.11	ETC_C1_NDUFA4	109,5	6,80E-32	No_clan
TRINITY_DN2321_c0_g1_i1_6	1	4	30,805	6,5097	PF04263.15	TPK_catalytic	133,4	3,80E-39	No_clan
TRINITY_DN12272_c0_g1_i1_2	1	16,5	10,56	6,3105					
TRINITY_DN8223_c1_g1_i1_3	1	24,7	9,8358	7,5002					
TRINITY_DN11343_c0_g1_i7_1	1	2,2	72,139	6,3858					
TRINITY_DN20424_c0_g1_i1_1	1	10,1	14,146	6,7753					
TRINITY_DN3551_c0_g1_i1_3	1	4,1	33,045	7,1941					
TRINITY_DN9616_c0_g1_i1_1	5	21,5	29,632	8,1891	PF00416.21	Ribosomal_S13	188	6,90E-56	CL0303
TRINITY_DN13664_c0_g1_i1_1	1	22,1	9,4684	-2					

TRINITY_DN9032_c0_g1_i5_4	1	4,1	34,044	-2					
TRINITY_DN10274_c0_g1_i3_2	1	5,4	23,07	6,3909	PF13616.5	Rotamase_3	69,2	3,90E-19	CL0487
TRINITY_DN10289_c0_g1_i1_3	1	4,8	29,885	6,7388	PF00535.25	Glycos_transf_2	127,7	3,50E-37	CL0110
TRINITY_DN1145_c0_g2_i1_6	1	8,9	18,591	-2					
TRINITY_DN11535_c0_g1_i3_2	2	12,3	22,244	8,0373	PF00338.21	Ribosomal_S10	95,6	1,50E-27	No_clan
TRINITY_DN14223_c0_g1_i1_5	1	8,8	12,764	6,3717	PF00076.21	RRM_1	77,4	4,90E-22	CL0221
TRINITY_DN18123_c0_g2_i1_2	1	4,1	36,457	7,2492					
TRINITY_DN18755_c0_g1_i1_2	1	10,7	14,9	6,6074					
TRINITY_DN20629_c0_g1_i1_1	1	8	18,57	6,2981	PF03407.15	Nucleotid_trans	72,9	3,30E-20	CL0110
TRINITY_DN20794_c0_g1_i1_5	1	16,1	9,198	6,645					
TRINITY_DN21254_c0_g1_i1_2	1	5,5	24,82	6,8105	PF13499.5	EF-hand_7	43,7	2,70E-11	CL0220
TRINITY_DN22136_c0_g1_i1_1	1	17,1	8,0454	6,2922					
TRINITY_DN22623_c0_g1_i1_1	1	25,7	7,7902	12,562					
TRINITY_DN2924_c0_g1_i1_3	1	4,5	29,877	6,8105	PF01997.15	Translin	193,7	3,20E-57	No_clan
TRINITY_DN493_c0_g1_i1_1	1	2,6	45,316	6,9574	PF00013.28	KH_1	56,9	1,20E-15	CL0007
TRINITY_DN6077_c0_g2_i1_2	1	3,7	34,286	14,394	PF01008.16	IF-2B	245,2	6,80E-73	CL0246
TRINITY_DN6267_c0_g1_i1_2	1	17,1	7,7717	47,523					
TRINITY_DN6751_c0_g1_i1_3	1	11,9	10,521	-2					
TRINITY_DN9010_c0_g1_i2_3	1	3,8	36,721	8,8627	PF01470.16	Peptidase_C15	64,2	1,50E-17	CL0379

Supplementary Table S2: Intensities of identified Corylus pollen proteins in different preparations

Protein IDs	Intensity fasp1	Intensity fasp2	Intensity fasp3	Intensity acetone1	Intensity acetone 2	Intensity acetone 3	Intensity tca1	Intensity tca2	Intensity tca3	Intensity zc1	Intensity zc2	Intensity zc3
TRINITY_DN8608_c2_g1_i2_5	461560000	1504900000	1069800000	110450000	473800000	671090000	0	0	0	19351000	14571000	16655000
TRINITY_DN11207_c0_g1_i2_3	823390000	546540000	506860000	132820000	221410000	345100000	0	0	0	50187000	41037000	45594000
TRINITY_DN9484_c0_g1_i1_5	377560000	353740000	387990000	169660000	287210000	410480000	83866000	47337000	186800000	71395000	74399000	92316000
TRINITY_DN7872_c0_g1_i3_6	559500000	612990000	586610000	44216000	111150000	148740000	36082000	26832000	46256000	16007000	44459000	17136000
TRINITY_DN10821_c0_g1_i5_2	373300000	704830000	600390000	28468000	91393000	132660000	0	3651400	50413000	24822000	26394000	29224000
TRINITY_DN11055_c0_g2_i3_5	375630000	329640000	434460000	77628000	83664000	288380000	38353000	54448000	51906000	56495000	51018000	33570000
TRINITY_DN9053_c0_g1_i5_1	247470000	194830000	269310000	150640000	176230000	173330000	77793000	89836000	178170000	102740000	68357000	58304000
TRINITY_DN10419_c0_g1_i1_1	316730000	271150000	288660000	107860000	133220000	105940000	39362000	27973000	86312000	56904000	43037000	46298000
TRINITY_DN11591_c0_g3_i5_3	237140000	204590000	294600000	42843000	143220000	150470000	93563000	90041000	96497000	48314000	31731000	21595000
TRINITY_DN11331_c0_g10_i2_1	61834000	393000000	513400000	965650	44430000	35672000	0	0	0	118280000	157810000	86044000
TRINITY_DN8476_c0_g1_i1_3	270190000	163840000	347320000	36017000	144100000	205540000	18468000	15506000	0	17350000	41627000	32485000
TRINITY_DN10442_c0_g1_i1_2	183700000	173120000	161130000	95934000	101000000	106340000	57335000	67184000	175730000	28990000	23976000	19744000
TRINITY_DN9319_c0_g1_i1_2	143550000	163620000	205970000	48656000	107950000	131510000	0	38844000	0	96962000	114770000	130160000
TRINITY_DN9571_c0_g1_i2_3	131800000	157040000	163440000	32733000	163750000	182870000	20010000	28721000	166800000	27340000	22821000	14637000
TRINITY_DN13451_c0_g2_i1_3	233010000	475370000	250470000	20584000	55137000	0	0	0	0	0	0	10684000
TRINITY_DN8018_c0_g1_i2_4	126840000	257310000	182780000	5557500	181670000	260180000	0	0	0	8005900	7581100	7204700
TRINITY_DN10804_c2_g1_i1_3	168860000	142820000	144290000	74779000	83194000	86800000	26532000	9028700	75123000	49982000	36442000	39298000
TRINITY_DN10890_c0_g3_i4_6	133390000	229080000	275090000	30860000	61938000	121450000	0	0	0	19501000	21145000	23119000
TRINITY_DN8608_c2_g1_i1_5	265690000	216840000	202290000	1985200	102200000	39735000	0	0	0	24804000	10195000	10332000
TRINITY_DN6026_c0_g1_i1_2	199710000	171320000	183910000	13257000	68230000	45047000	48415000	57759000	28535000	4912000	19658000	1885500
TRINITY_DN11331_c0_g10_i3_1	111990000	118990000	120890000	7895500	64361000	64431000	0	0	0	151570000	150830000	51235000
TRINITY_DN13307_c0_g1_i1_1	109550000	70222000	120300000	62834000	142480000	148280000	5830700	56441000	90762000	7714800	4084000	5940800
TRINITY_DN11501_c0_g1_i5_2	37888000	14393000	12763000	41024000	39032000	26071000	25481000	20479000	43432000	188110000	141810000	144890000
TRINITY_DN9487_c0_g3_i2_5	49688000	101040000	96516000	41518000	53523000	67725000	17497000	10131000	14372000	101110000	89582000	79839000
TRINITY_DN10587_c0_g1_i1_3	108200000	92856000	98325000	33177000	125710000	119670000	4495000	33849000	43999000	26519000	18715000	16012000
TRINITY_DN10479_c0_g2_i1_3	119170000	96860000	111170000	44066000	181910000	101260000	0	0	0	18699000	15111000	14556000
TRINITY_DN11616_c0_g1_i2_1	57454000	47658000	52489000	59783000	57806000	37350000	66071000	43078000	89131000	59552000	56183000	47422000
TRINITY_DN4595_c0_g1_i1_3	37990000	160400000	143820000	17375000	139070000	109470000	0	0	0	41874000	219400	23388000
TRINITY_DN3727_c0_g2_i1_1	168490000	140360000	125130000	29198000	58945000	28649000	35663000	19081000	31222000	8551300	6476700	6402800
TRINITY_DN9731_c0_g1_i1_1	50562000	39148000	39769000	36148000	58492000	44930000	12734000	9683500	14352000	132040000	105550000	96670000

TRINITY_DN3709_c0_g1_i1_3	60205000	54165000	70355000	30187000	19226000	21585000	33670000	43885000	75925000	96289000	59547000	53406000
TRINITY_DN9065_c0_g1_i1_1	75458000	28521000	27858000	60605000	67858000	53040000	39854000	59600000	71291000	43783000	38052000	33313000
TRINITY_DN11320_c0_g1_i11_3	65469000	48841000	47186000	33148000	35284000	32033000	0	0	0	117990000	101880000	114740000
TRINITY_DN6201_c0_g1_i1_1	67018000	101940000	119580000	14721000	76353000	52527000	54110000	17123000	70384000	3981200	7783500	2612300
TRINITY_DN6019_c0_g1_i1_3	70444000	57258000	62082000	43039000	44841000	26386000	61876000	85811000	57410000	26872000	25877000	25113000
TRINITY_DN10785_c0_g1_i3_3	78100000	131290000	137030000	63575000	79513000	72280000	0	0	0	14912000	0	7345900
TRINITY_DN10341_c0_g2_i1_1	97518000	116130000	120030000	73823000	65283000	68967000	4025600	0	1350700	11317000	9977200	12381000
TRINITY_DN10479_c0_g1_i2_1	30850000	31352000	43830000	52487000	75956000	105890000	41386000	67251000	61211000	39795000	13416000	15800000
TRINITY_DN10144_c0_g1_i2_2	65169000	64279000	82459000	47168000	136110000	84146000	10299000	0	0	30084000	23537000	24350000
TRINITY_DN5870_c0_g1_i2_4	40093000	44362000	61760000	41628000	61480000	51176000	62129000	72579000	91063000	12749000	8941000	10037000
TRINITY_DN10438_c0_g2_i1_2	42144000	27206000	39391000	38921000	45926000	34340000	3749200	9677000	208700000	15400000	12326000	10901000
TRINITY_DN8953_c0_g1_i1_1	31200000	24081000	92245000	52660000	133730000	109930000	0	0	0	11695000	9931800	9416000
TRINITY_DN9146_c0_g3_i2_3	1058000	1418500	728240	3121900	3164600	952440	1621200	2291300	0	156190000	163490000	104080000
TRINITY_DN10397_c0_g1_i2_5	75867000	66791000	39325000	42446000	37911000	25139000	34564000	28423000	43610000	19256000	8323800	10527000
TRINITY_DN10647_c0_g1_i1_4	91807000	33435000	46790000	79484000	29857000	49375000	0	0	0	35225000	13521000	39206000
TRINITY_DN11581_c0_g2_i3_2	63807000	62084000	89245000	42210000	39082000	45263000	4059000	2327800	4233000	24028000	18480000	20430000
TRINITY_DN7958_c0_g4_i1_6	33113000	31300000	28390000	25026000	25208000	18774000	46335000	66145000	70027000	25633000	22114000	20167000
TRINITY_DN10683_c0_g1_i3_5	63460000	48078000	70596000	13330000	21015000	30319000	36712000	38379000	49606000	4770700	11797000	15739000
TRINITY_DN11604_c0_g1_i6_2	57261000	54719000	54562000	50063000	72149000	52180000	0	0	0	22955000	18878000	15070000
TRINITY_DN9279_c0_g1_i1_1	52428000	40474000	42578000	36719000	42053000	26898000	38287000	48682000	61473000	3756700	892990	2628600
TRINITY_DN11174_c0_g1_i5_1	68969000	67461000	62587000	61538000	51999000	50458000	0	0	0	11371000	9463900	11056000
TRINITY_DN11394_c0_g1_i1_2	43233000	36005000	31858000	20077000	22812000	18505000	14733000	3265900	14451000	90530000	53909000	41884000
TRINITY_DN10920_c0_g1_i2_3	37705000	29421000	54081000	37725000	57576000	31424000	14927000	9118500	24882000	33615000	28835000	28522000
TRINITY_DN13244_c0_g1_i1_3	80928000	83185000	78971000	43045000	44600000	36650000	0	0	0	6042500	5682700	5341700
TRINITY_DN10804_c1_g1_i1_3	61471000	81415000	80246000	20677000	13742000	19985000	11950000	16960000	32126000	13024000	15918000	10025000
TRINITY_DN10010_c0_g1_i2_4	25432000	37485000	35430000	31768000	36564000	26473000	38063000	20599000	78522000	10901000	9747300	8166500
TRINITY_DN11304_c0_g1_i5_2	2221500	2478700	2040200	1300700	1311100	514110	3920400	0	2524300	114150000	112470000	115730000
TRINITY_DN14318_c0_g1_i1_5	0	0	0	0	0	0	111470000	111110000	118700000	0	0	0
TRINITY_DN11227_c0_g1_i5_5	15887000	21199000	22903000	49823000	53384000	44279000	6319200	55415000	30321000	11283000	14225000	11100000
TRINITY_DN4231_c0_g1_i1_1	47994000	47356000	35240000	25319000	26589000	20915000	33154000	39309000	43691000	3435500	2800100	2660700
TRINITY_DN10618_c0_g1_i1_3	70771000	55437000	56330000	24573000	39111000	23706000	10202000	9412100	14573000	6917200	3377600	3756200
TRINITY_DN9827_c0_g1_i1_5	51756000	61059000	61003000	4424900	49491000	40382000	0	0	0	15982000	12076000	11889000
TRINITY_DN7126_c0_g3_i1_3	51999000	34127000	50904000	46443000	27354000	33292000	21993000	16334000	14045000	2755800	1862100	2758300

TRINITY_DN11590_c1_g1_i1_3	29664000	26494000	29143000	23555000	25460000	21837000	15902000	16194000	92490000	8200300	5698900	5319500
TRINITY_DN11652_c0_g1_i2_1	13902000	13815000	14785000	10750000	17827000	13208000	2424800	3713400	745540	79003000	56349000	72271000
TRINITY_DN5250_c0_g1_i1_1	68293000	87219000	79936000	15739000	9357300	12895000	0	0	2500200	4205300	5632600	4041300
TRINITY_DN11459_c1_g2_i2_1	4204800	4107900	4023900	3493800	1903400	3151400	4361800	0	3514700	99250000	85106000	76401000
TRINITY_DN10499_c0_g1_i1_2	22361000	28783000	21648000	9417400	8088100	17617000	15236000	33430000	32508000	35659000	33010000	27409000
TRINITY_DN8634_c0_g1_i1_1	44226000	52422000	22261000	1930000	58041000	61291000	0	0	0	27992000	8811600	4054400
TRINITY_DN10893_c0_g1_i1_2	24479000	34685000	44130000	25871000	52565000	31563000	0	0	0	24844000	24657000	18037000
TRINITY_DN9811_c0_g1_i2_3	32083000	41821000	51322000	3691800	53881000	66400000	0	1958000	2439000	3667500	2418300	2588000
TRINITY_DN8650_c0_g2_i3_2	692660	880000	671500	701090	878980	133280	803860	1946100	0	119020000	70702000	65389000
TRINITY_DN11653_c0_g1_i19_5	12701000	10459000	9670400	1656800	2246400	2443200	6500700	6357500	9295400	67736000	58312000	72416000
TRINITY_DN8041_c0_g1_i2_3	1226400	1173400	840390	695560	558840	462060	2718300	0	5161700	95303000	58993000	91942000
TRINITY_DN14244_c0_g1_i1_2	41933000	50963000	48981000	33812000	41005000	32025000	0	0	0	0	5016000	1245700
TRINITY_DN10590_c0_g2_i1_2	26833000	22725000	24295000	42160000	27072000	41225000	3352300	6494600	6921900	17835000	15976000	15074000
TRINITY_DN3503_c0_g1_i2_1	10778000	10863000	16673000	8726900	101180000	96838000	0	0	0	1953000	1214400	1358500
TRINITY_DN10155_c0_g1_i1_2	30537000	31031000	31648000	27398000	50992000	33501000	706090	7381200	25236000	4135000	1271800	1317900
TRINITY_DN11019_c0_g1_i1_2	180120	0	0	0	116860	70139	0	746340	0	100320000	66308000	77155000
TRINITY_DN10859_c0_g1_i1_2	13011000	71267000	15573000	32854000	30966000	13761000	7743900	40880000	9186700	3579300	1607100	3799500
TRINITY_DN10804_c0_g1_i1_2	46941000	34599000	33303000	8595600	23815000	25149000	12672000	15910000	13987000	9908300	9207700	9248700
TRINITY_DN7252_c0_g4_i3_3	5413400	6554200	6026800	538800	4495500	4440500	6223400	6693200	7134100	79145000	55077000	61274000
TRINITY_DN11092_c0_g1_i2_3	16450000	11945000	17421000	15646000	15519000	18456000	37142000	35783000	66789000	1688200	725380	1052800
TRINITY_DN11258_c0_g1_i2_3	1906000	1034400	1817300	763550	1892100	1924100	2903800	4247300	1726000	74277000	63575000	82304000
TRINITY_DN8200_c0_g1_i1_1	21541000	17590000	18406000	11168000	21203000	13633000	0	0	0	54712000	51430000	25296000
TRINITY_DN9523_c0_g1_i1_4	23886000	26073000	24354000	19634000	22784000	18811000	27926000	24080000	34916000	5506900	4153400	1906700
TRINITY_DN10459_c0_g1_i1_3	10507000	58655000	18650000	11018000	24767000	19345000	14522000	10274000	9376000	22495000	12277000	17837000
TRINITY_DN11248_c1_g1_i1_3	14173000	10398000	18681000	16981000	23056000	16349000	5620700	13428000	21086000	29058000	27667000	29601000
TRINITY_DN10833_c1_g2_i1_1	46768000	33226000	17691000	14931000	15688000	12466000	16193000	10693000	49504000	1369000	4841500	2604300
TRINITY_DN9054_c0_g1_i2_1	33754000	34790000	27950000	26051000	29983000	48877000	0	0	0	3497600	9789900	8518800
TRINITY_DN11641_c0_g1_i13_1	11006000	10188000	9260200	9135800	11844000	10407000	1264900	1948200	695610	57849000	53901000	42532000
TRINITY_DN9275_c0_g1_i1_1	20352000	24435000	32491000	23689000	29293000	24570000	12155000	15032000	12906000	9469300	5783300	7724600
TRINITY_DN11496_c0_g1_i1_2	1953900	3015500	3219900	4254800	6766500	2223600	5875000	8944400	3928800	64367000	62343000	49506000
TRINITY_DN10665_c0_g1_i1_2	13316	264760	518950	0	410280	0	288880	0	487070	78889000	59105000	72989000
TRINITY_DN11667_c0_g1_i3_3	228350	272240	0	362180	756450	743880	1165600	625630	812820	74605000	62589000	68398000
TRINITY_DN2899_c0_g1_i1_1	20187000	28833000	28794000	20903000	22853000	17010000	7763700	25237000	28723000	3283300	1318800	1286300

TRINITY_DN5468_c0_g2_i2_1	21141000	12366000	13243000	6381900	17452000	14404000	0	0	0	43984000	37855000	38679000
TRINITY_DN11591_c0_g3_i6_3	1983400	4282700	4262500	37589000	60881000	39126000	11816000	13013000	16894000	4995800	5283000	4602800
TRINITY_DN11204_c0_g1_i1_3	0	0	0	241110	331800	187850	0	0	0	66047000	69463000	64029000
TRINITY_DN10703_c1_g1_i1_1	831770	768950	2798100	25860000	27694000	25963000	33257000	18728000	40055000	5495100	7999700	6053000
TRINITY_DN11207_c0_g1_i1_3	27516000	28063000	33451000	30637000	36679000	28246000	0	0	0	4020200	3434900	2952800
TRINITY_DN10743_c0_g1_i1_2	39157000	37700000	31054000	12688000	21147000	9612700	3433500	3564900	3901000	12041000	7619000	10086000
TRINITY_DN8812_c0_g1_i2_1	10822000	14434000	12683000	42929000	47112000	31150000	16344000	3644300	0	4496700	4498700	917950
TRINITY_DN11581_c0_g1_i4_3	28534000	14581000	26606000	2680500	0	7462600	37858000	31677000	36408000	482120	1282700	0
TRINITY_DN9487_c0_g2_i1_5	15476000	15468000	13986000	12222000	9870200	6880700	0	3043500	6196700	34213000	36688000	31770000
TRINITY_DN11173_c0_g3_i1_4	40515	136570	61267	0	0	82880	0	0	0	74997000	69675000	39884000
TRINITY_DN5663_c0_g2_i1_3	21958000	27966000	27561000	32277000	26720000	19633000	5299200	6389400	7339300	4248800	2209500	2037700
TRINITY_DN9210_c0_g1_i1_1	20286000	16360000	16657000	37648000	41944000	35337000	0	0	6188200	3243900	3081700	2223500
TRINITY_DN9779_c0_g1_i1_1	139360	37318	0	0	134110	0	413980	413600	0	62782000	56248000	58507000
TRINITY_DN16006_c0_g1_i1_2	20724000	31114000	15473000	30910000	42572000	28375000	0	0	0	1117500	775920	2655600
TRINITY_DN5448_c0_g2_i1_3	8187700	12698000	9748400	20475000	19210000	14826000	17421000	38936000	23869000	2562300	2280300	2263200
TRINITY_DN10761_c0_g1_i2_2	12147000	10191000	10208000	6974900	8104700	2598600	9301300	23851000	23928000	23224000	22426000	17075000
TRINITY_DN11378_c0_g1_i1_4	0	0	0	219490	498070	0	0	0	0	67359000	58147000	42971000
TRINITY_DN10720_c0_g2_i2_6	563350	1142500	893380	218700	823970	180300	535670	7197500	4252100	46234000	56008000	50651000
TRINITY_DN11028_c0_g2_i2_3	7020100	14367000	14909000	14862000	14970000	12306000	10437000	25460000	10363000	12994000	16050000	14771000
TRINITY_DN10686_c0_g1_i1_3	0	411920	0	0	128540	0	0	0	0	64698000	49795000	50626000
TRINITY_DN10496_c0_g1_i5_3	1158300	196940	752950	3392200	2385300	953140	2899800	1315200	1406200	56564000	42763000	50644000
TRINITY_DN11432_c0_g1_i3_6	11197000	8385800	7272600	21797000	19507000	16060000	0	2523700	0	31168000	27157000	18904000
TRINITY_DN4601_c0_g1_i1_1	24621000	25047000	15617000	14867000	25842000	5921900	3222000	27697000	11146000	4092000	0	4139300
TRINITY_DN10681_c0_g1_i1_2	1357600	1307100	970900	269380	1235800	771340	0	1194100	0	59312000	43530000	48560000
TRINITY_DN10442_c0_g2_i1_4	37197000	35309000	34555000	2467100	19618000	10763000	0	0	0	4216200	6489000	5674100
TRINITY_DN9458_c0_g1_i2_2	6314600	7907900	6164200	3764400	8815400	3531300	1128000	8125500	2388100	37858000	36012000	33374000
TRINITY_DN8250_c0_g1_i2_3	6428000	16068000	13304000	6527100	6097200	9293600	20940000	18190000	17573000	14331000	14145000	12285000
TRINITY_DN10239_c0_g1_i1_2	19308000	17437000	6310900	28830000	23679000	24704000	12148000	318980	15469000	2573500	1551000	2718600
TRINITY_DN11469_c0_g2_i3_2	0	0	0	56429000	55273000	42259000	0	0	0	0	0	0
TRINITY_DN7240_c0_g1_i2_1	4245000	5316000	5121900	4869900	4824300	4612000	0	0	0	42618000	42294000	39866000
TRINITY_DN4014_c0_g1_i1_2	43154000	1834200	14666000	12799000	14505000	13454000	13294000	0	16703000	8623000	7862100	6064500
TRINITY_DN10537_c0_g1_i2_4	9516200	10896000	11199000	7307100	9606900	7531700	9576300	1998400	8735600	28952000	24890000	22624000
TRINITY_DN5324_c1_g1_i2_1	12002000	12052000	12908000	35817000	40385000	31910000	0	0	0	2989000	2251300	2189800

TRINITY_DN5563_c0_g1_i1_6	0	47720000	36728000	16078000	20109000	18626000	0	0	0	3323200	3067800	2733100
TRINITY_DN8045_c0_g1_i1_5	63144000	36465000	10286000	20696000	2397300	3646700	0	5081300	5651100	0	0	0
TRINITY_DN8960_c0_g1_i1_2	14625000	11632000	9138400	4803000	11508000	7629200	27785000	15573000	25177000	7644900	5766100	5449100
TRINITY_DN4028_c1_g1_i1_2	27974000	19775000	17153000	24509000	23958000	9792800	0	0	17452000	1119200	2110200	1037200
TRINITY_DN11269_c2_g1_i10_3	1705800	1273300	1896900	1127400	589410	971140	6118500	6417000	6798700	48610000	38397000	30926000
TRINITY_DN11656_c0_g1_i6_2	4703000	5083000	4181900	214340	1922500	1289400	4414400	6984000	11800000	45608000	24838000	33017000
TRINITY_DN10568_c0_g3_i2_1	0	0	0	0	0	0	0	0	528770	55072000	47321000	40865000
TRINITY_DN9271_c0_g1_i1_1	25520000	19185000	20132000	18744000	23789000	18790000	0	0	0	4405400	5925700	4702500
TRINITY_DN10339_c0_g2_i1_4	7325500	12478000	12278000	22591000	24221000	20340000	0	13732000	19315000	3815200	3021000	1822500
TRINITY_DN8726_c0_g2_i1_5	7717600	4517100	4531800	10721000	7410200	7361100	28412000	27841000	33956000	4573000	2217800	1488200
TRINITY_DN11504_c0_g1_i1_3	43252000	9226000	25186000	12520000	8846400	8187700	2464100	1717600	16653000	2893800	2959600	3387400
TRINITY_DN10183_c0_g2_i2_2	4286000	2135100	3927500	4255300	3212000	14130000	15034000	9190000	54084000	3980200	12770000	9144900
TRINITY_DN1820_c0_g1_i1_6	35608000	22641000	21257000	7468000	28365000	13570000	0	0	0	2151100	1427500	3300900
TRINITY_DN8787_c0_g2_i1_4	6874900	80517000	39730000	0	4978800	562840	0	0	0	0	0	0
TRINITY_DN10196_c0_g1_i1_1	23601000	17441000	26077000	12188000	19263000	13850000	0	0	0	7115400	8178300	3043600
TRINITY_DN10535_c0_g1_i2_3	5374300	4663400	8451700	12105000	19793000	12811000	9366400	25427000	9534700	8844500	7115100	5948700
TRINITY_DN11343_c0_g1_i7_2	194150	393270	0	0	192660	84863	0	0	0	48535000	44416000	34298000
TRINITY_DN9170_c0_g1_i1_1	34099000	33153000	26030000	13652000	6958900	4248700	0	0	0	2902700	2678000	4203700
TRINITY_DN9813_c0_g1_i1_2	2334300	1925000	2053800	1374800	2491100	861700	0	0	817590	40421000	39202000	32869000
TRINITY_DN11430_c0_g2_i4_6	0	0	0	0	0	0	0	0	0	46155000	41492000	36290000
TRINITY_DN9475_c0_g1_i1_3	23585000	16278000	13407000	13916000	19554000	12876000	4145600	4752700	5091900	3443200	3066600	3057600
TRINITY_DN11040_c0_g1_i6_1	180330	204300	0	0	227730	0	1345200	1399800	1407800	43962000	37743000	36128000
TRINITY_DN10148_c0_g1_i6_3	8902700	8333600	9840600	7602500	5937400	5040300	17615000	8697800	33034000	7089200	5384600	5000000
TRINITY_DN5484_c0_g2_i1_4	18494000	23849000	22048000	19076000	16544000	16110000	0	0	0	0	2746100	2786500
TRINITY_DN7458_c0_g1_i3_2	4816800	5413500	7583200	31989000	22693000	35933000	0	0	0	5734700	3310100	4025800
TRINITY_DN7727_c0_g2_i1_3	15816000	13122000	20324000	13383000	39124000	12561000	0	0	0	1709600	1690500	3376100
TRINITY_DN18091_c0_g1_i1_4	24873000	19029000	17676000	20855000	22600000	9321300	0	0	0	1212300	3103400	0
TRINITY_DN10656_c0_g1_i1_2	4873800	5663800	7078300	11816000	15544000	10033000	4062000	8840100	12560000	15722000	12707000	9024400
TRINITY_DN7279_c0_g1_i2_5	4121800	7169000	7010900	11325000	20575000	13976000	16148000	16632000	18377000	1055000	607320	385320
TRINITY_DN11640_c0_g2_i6_2	0	0	0	0	0	0	0	0	0	45998000	27897000	43401000
TRINITY_DN1640_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	41310000	39558000	35270000
TRINITY_DN7420_c0_g1_i1_1	1291800	382360	1483700	2842100	3993600	4061100	11894000	54058000	30922000	1307200	1183800	1483300
TRINITY_DN11604_c0_g1_i5_2	12333000	13121000	13427000	18779000	29355000	20375000	0	0	0	2833400	1893000	2677500

TRINITY_DN7220_c0_g1_i2_2	171590	188070	130710	0	77249	0	0	0	0	42073000	42232000	29879000
TRINITY_DN11320_c0_g1_i7_2	30949000	15122000	17270000	19109000	12409000	18401000	0	0	0	0	1232500	0
TRINITY_DN17793_c0_g1_i1_3	0	0	1619700	671410	56302000	48473000	0	0	0	0	3289600	3479500
TRINITY_DN128_c0_g1_i1_1	17362000	10411000	11801000	22374000	24192000	25914000	0	0	1598000	0	0	0
TRINITY_DN7906_c0_g1_i1_2	8454500	817500	5751600	19919000	31539000	11397000	0	10969000	11518000	4941100	4169600	4175200
TRINITY_DN9529_c0_g1_i4_3	22436000	21413000	18809000	8305300	20748000	15871000	0	0	0	2292100	1790400	1448100
TRINITY_DN10188_c0_g1_i1_1	13024000	10588000	11509000	7121200	9561500	5053900	9415000	6405000	12139000	8935300	9235800	9847700
TRINITY_DN10809_c0_g1_i3_1	7568600	2841300	2498500	15612000	16967000	12309000	2492000	2373400	2812500	20780000	13249000	9844300
TRINITY_DN10625_c0_g1_i2_2	5810000	2811800	3078600	8370500	11211000	9115200	450570	866780	2913400	30480000	15841000	16954000
TRINITY_DN11635_c2_g1_i4_2	11113000	13446000	13901000	6528200	7940500	5124700	12329000	11808000	19525000	2926600	556260	2692400
TRINITY_DN11639_c0_g1_i6_3	0	0	0	0	0	0	0	0	0	39539000	33119000	34629000
TRINITY_DN10727_c0_g1_i1_2	4174600	3715600	4522800	4027400	9071400	10914000	0	0	0	24989000	26780000	18997000
TRINITY_DN8828_c0_g1_i1_2	0	0	0	0	106120000	0	0	0	0	99905	88655	0
TRINITY_DN9853_c0_g2_i1_2	16757000	7037900	9614700	3536800	5156100	5737400	2298900	2296600	2452100	24371000	7100200	19666000
TRINITY_DN17353_c0_g1_i1_1	0	0	0	63895000	0	0	0	0	0	22175000	169180	18404000
TRINITY_DN11024_c0_g2_i1_3	2419800	648320	3066400	5867100	3684200	3798100	26277000	28473000	30101000	0	0	0
TRINITY_DN7121_c0_g2_i1_5	111610	204850	127430	0	0	0	0	533650	0	45581000	26405000	31121000
TRINITY_DN8295_c0_g1_i1_3	22192000	17998000	22762000	9403300	6176700	14266000	0	0	0	3598300	2999700	4136200
TRINITY_DN7552_c0_g1_i2_3	26660000	17233000	23425000	9566700	14080000	7878000	0	0	0	2086600	1475900	1106400
TRINITY_DN11568_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	36454000	34378000	31101000
TRINITY_DN11106_c0_g1_i3_1	124800	0	128330	94454	316460	0	0	0	0	41842000	29497000	28313000
TRINITY_DN8501_c0_g1_i1_2	31920	43462	27734	0	0	0	0	0	0	35343000	31367000	33151000
TRINITY_DN9729_c0_g1_i1_5	9159900	4905000	3803600	11768000	11572000	7287700	0	0	0	23394000	11420000	15855000
TRINITY_DN11231_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	38747000	32811000	27105000
TRINITY_DN11267_c0_g1_i1_2	4544200	3257800	2350700	3506700	2389000	1810500	21717000	18588000	10574000	10614000	7285800	10145000
TRINITY_DN10955_c0_g1_i6_2	13738000	13743000	13235000	4218700	3878700	2704900	13122000	1257600	13749000	8918700	4391200	3550000
TRINITY_DN10695_c0_g1_i3_1	14412000	12178000	13349000	5285600	12545000	10900000	8408800	728580	12173000	2619800	2252600	1341100
TRINITY_DN10388_c0_g2_i5_4	984050	978910	1529700	10820000	10396000	11335000	3727000	4200200	6351000	17084000	13510000	14804000
TRINITY_DN10780_c1_g2_i1_2	4625300	4566400	4941800	4317800	2034500	1942400	6315600	0	5221700	22813000	20096000	18253000
TRINITY_DN4152_c0_g3_i1_2	7268000	3755500	6625900	3880900	5723600	3369400	18691000	22966000	18103000	2206400	1951600	410040
TRINITY_DN11590_c1_g2_i1_3	5424100	8909100	9240700	18915000	17798000	14784000	0	0	0	7523300	4935100	7166900
TRINITY_DN11603_c0_g2_i4_3	7793300	9243900	8042200	4779300	7851300	3211200	2643100	9782000	9809900	12416000	10360000	8723200
TRINITY_DN9993_c0_g1_i2_4	169830	202270	164130	661860	276710	125120	0	0	0	34892000	30155000	27642000

TRINITY_DN8821_c0_g1_i2_2	6355300	5114100	5812100	1312400	2045900	1684700	7453200	12159000	9467900	14755000	13253000	13634000
TRINITY_DN11484_c0_g1_i1_1	20725000	21241000	10449000	7406800	16162000	7218600	0	0	0	3665800	2916100	3003400
TRINITY_DN10975_c0_g1_i1_3	6670100	17026000	16303000	9068200	17724000	10820000	378340	0	0	5705800	3950800	5001700
TRINITY_DN908_c0_g1_i1_5	7966500	5109100	6305800	17885000	17585000	12819000	10598000	905100	9162500	1178800	897080	2235500
TRINITY_DN4171_c0_g2_i2_3	609090	247400	539370	2122700	2416900	1141200	21500000	18877000	42031000	1415400	817810	478240
TRINITY_DN11158_c0_g1_i1_2	2930700	3473500	10136000	15854000	16119000	9970200	1947500	16255000	6469900	3149600	4101100	1090400
TRINITY_DN11613_c0_g1_i1_1	6527000	5149900	4000900	4418500	3920900	5139700	14805000	16611000	18624000	4414400	4235500	3638000
TRINITY_DN10470_c0_g1_i2_2	20982000	21659000	21190000	5031100	11008000	7644500	0	0	0	1559900	419930	1727200
TRINITY_DN12697_c0_g1_i1_3	14559000	16482000	8068000	15005000	17176000	8071200	0	0	0	5857200	2435500	3420600
TRINITY_DN6523_c0_g1_i1_1	366550	691810	621370	5465100	6351300	7493600	15010000	11290000	25642000	7219300	5614100	4741300
TRINITY_DN7341_c0_g1_i1_3	6978100	7333200	8267500	12524000	19609000	12626000	6305900	6478000	6365200	1664200	1009900	813940
TRINITY_DN8404_c0_g1_i1_3	18447000	15954000	18113000	13288000	9359300	8277900	0	0	0	2230500	1826500	1496200
TRINITY_DN11519_c0_g1_i1_1	1792100	1082200	1070200	1984300	3295300	3103100	2566500	2881900	3137200	27031000	20308000	20539000
TRINITY_DN9737_c2_g2_i1_1	2467700	2158200	2693900	2549000	2778100	2820000	7579300	10453000	15631000	19289000	8605800	10175000
TRINITY_DN11533_c0_g1_i2_3	269030	168350	138320	0	258160	0	0	0	0	32924000	22677000	30501000
TRINITY_DN8820_c0_g1_i1_1	0	0	0	164480	354260	0	0	0	0	33970000	24669000	27174000
TRINITY_DN5484_c0_g1_i1_2	11347000	4308400	16748000	16723000	21806000	14766000	0	0	0	0	0	0
TRINITY_DN10447_c0_g1_i1_3	11408000	14379000	3911800	1193400	4840800	1204300	0	0	0	0	0	48322000
TRINITY_DN431_c0_g1_i1_6	18886000	13485000	9183600	13074000	15741000	12131000	0	0	0	1004100	1579700	0
TRINITY_DN9847_c0_g1_i1_1	30532000	15235000	15728000	6499000	7207200	5807600	0	0	0	1246800	1272100	1127300
TRINITY_DN11173_c0_g2_i3_4	85631	133310	0	159380	210060	0	0	0	0	32644000	24754000	26458000
TRINITY_DN6616_c0_g1_i1_4	6644900	5355200	6844500	13896000	11425000	10281000	0	0	833940	10732000	7785200	9526800
TRINITY_DN5630_c0_g1_i1_3	4895800	2688500	4473800	1198900	1519000	1055200	0	1177500	0	24059000	18727000	23492000
TRINITY_DN4574_c0_g1_i2_2	3319000	4051800	4353600	8123500	9358100	8637900	0	8511100	14868000	7334500	8194500	5732300
TRINITY_DN8931_c0_g1_i1_2	6057700	5474800	5863800	8599700	12399000	10426000	8291400	0	10229000	5524500	4164800	5271800
TRINITY_DN11512_c1_g1_i2_2	567250	575880	507620	88543	0	0	0	0	0	31743000	28507000	19816000
TRINITY_DN5614_c0_g2_i1_2	0	0	0	0	0	0	0	81772000	0	0	0	0
TRINITY_DN10149_c0_g1_i2_3	89500	0	0	297040	328080	197220	913760	935780	0	27794000	21261000	29605000
TRINITY_DN9287_c0_g1_i1_3	0	0	0	0	381960	118660	17008000	29066000	33884000	292240	242380	123090
TRINITY_DN13093_c0_g1_i1_3	5026000	3145400	2553700	6967000	7869800	5007000	3945700	2856500	6950900	17239000	9154700	10181000
TRINITY_DN10610_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	28750000	30363000	21173000
TRINITY_DN4192_c0_g2_i1_1	1395600	538130	1110000	4207600	4374100	5636100	14073000	25877000	16378000	3986200	1601300	966040
TRINITY_DN11220_c1_g2_i2_2	519780	389870	0	0	533640	0	0	0	0	25224000	36181000	16998000

TRINITY_DN10317_c0_g1_i3_2	14521000	9819200	9921300	12531000	7455300	8225000	5907300	0	0	3716300	2161800	5551000
TRINITY_DN9083_c0_g1_i2_2	137390	163240	625890	10544000	19484000	15453000	0	0	12470000	8182100	6043600	6656200
TRINITY_DN6144_c0_g1_i2_2	1795300	3371100	1270300	7640100	11859000	9286200	0	0	0	16488000	14530000	13377000
TRINITY_DN13238_c0_g1_i1_4	167330	226520	14153000	4859400	4673100	3819100	15430000	17861000	18352000	0	0	0
TRINITY_DN21237_c0_g1_i1_2	0	0	0	0	0	0	0	77964000	0	0	0	0
TRINITY_DN10003_c1_g1_i5_2	0	160990	210260	0	0	0	0	0	0	28086000	23253000	26120000
TRINITY_DN11618_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	30235000	26421000	20554000
TRINITY_DN4347_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	31449000	21158000	24323000
TRINITY_DN5723_c0_g1_i1_2	13758000	10620000	10811000	6108800	5926400	824140	6790700	6983000	14511000	0	0	0
TRINITY_DN9234_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	28739000	24360000	23111000
TRINITY_DN13643_c0_g1_i1_2	689860	6933400	5959700	0	3131900	3204900	0	0	0	18413000	21069000	16787000
TRINITY_DN6792_c0_g1_i2_5	12688000	11878000	12436000	7490000	9022000	7782300	5818100	0	6627700	390270	299470	1187700
TRINITY_DN7574_c0_g1_i5_2	0	50296	44268	0	168800	70528	25551000	9352000	25874000	7230600	4063000	3165500
TRINITY_DN11191_c0_g1_i2_6	0	0	0	0	0	0	0	339870	0	28947000	23981000	22121000
TRINITY_DN9754_c0_g1_i1_3	0	0	0	0	0	244460	336140	256170	1617800	27016000	24444000	21385000
TRINITY_DN5779_c0_g1_i1_2	5865200	7602800	10653000	12950000	15026000	12379000	0	0	3474900	2408500	2599400	2273000
TRINITY_DN11323_c0_g1_i1_2	0	0	0	0	450780	373420	0	0	0	30725000	22226000	21370000
TRINITY_DN14709_c0_g1_i1_5	7807400	7301900	5704800	6489200	5736600	4484600	5579600	11574000	8009900	4644900	3584500	4200200
TRINITY_DN9829_c0_g1_i3_2	11396000	9125000	12500000	3068200	8477300	3084700	8234600	0	10443000	1281300	3918000	3371800
TRINITY_DN6396_c0_g1_i1_2	0	1682900	0	4685800	5346800	4139600	13609000	2274800	37402000	3095700	0	2324100
TRINITY_DN8644_c0_g2_i1_1	27859000	15608000	8854300	2619100	4366100	11241000	0	0	186530	2443500	682330	573600
TRINITY_DN11241_c0_g1_i3_2	0	0	0	0	0	0	0	0	0	22656000	23656000	28106000
TRINITY_DN9392_c0_g1_i1_2	5224700	3681000	1744900	9452600	7364700	3230400	12415000	0	13199000	6355800	4901700	6814300
TRINITY_DN10095_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	29239000	19933000	25118000
TRINITY_DN9335_c0_g1_i1_4	1119700	583190	617830	0	565880	456310	5338200	7755900	6024300	16460000	20536000	14027000
TRINITY_DN10130_c0_g2_i6_2	0	0	0	149050	157770	0	287580	0	0	23755000	23430000	25577000
TRINITY_DN11642_c0_g1_i3_4	0	0	0	0	0	0	0	0	0	27420000	21687000	22414000
TRINITY_DN7240_c0_g1_i1_3	2015600	191610	1674000	3718900	3031700	3082500	0	0	0	29986000	4328500	23171000
TRINITY_DN11079_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	23132000	25185000	22789000
TRINITY_DN10242_c0_g1_i3_2	7990200	7549700	6434800	7199400	4752400	5982500	8545100	11039000	10699000	91846	0	584930
TRINITY_DN3644_c0_g1_i2_3	8789200	11538000	11076000	15975000	10207000	8794500	0	0	0	0	2854900	1284300
TRINITY_DN11383_c0_g1_i4_1	13627000	14584000	1303000	8507200	9821700	2119200	0	0	0	6027600	9375100	5027200
TRINITY_DN9173_c0_g1_i1_4	4599800	4058700	7714500	7886200	8387700	5938400	0	0	0	11384000	10393000	9785500

TRINITY_DN4403_c0_g1_i1_1	5383700	3312600	3444400	8358900	6693900	7816700	2828600	10338000	17071000	1432800	2140000	1208900
TRINITY_DN10720_c0_g1_i4_5	324000	25585	37846	0	794170	611490	0	0	0	20330000	20726000	26926000
TRINITY_DN11647_c1_g1_i1_1	9398400	7463400	4158200	9567700	11877000	14470000	3423500	1062000	4210200	2073500	1292700	771350
TRINITY_DN12510_c0_g1_i1_1	714530	369870	454720	600030	322440	611250	28706000	19022000	18540000	151220	262140	0
TRINITY_DN1355_c0_g3_i1_5	0	0	0	0	0	0	0	69331000	0	0	0	0
TRINITY_DN11053_c0_g1_i4_6	538150	1299100	1357400	1821000	941750	925000	0	0	0	20346000	20377000	21606000
TRINITY_DN5919_c0_g1_i1_3	988580	938560	1689700	3344400	3160200	3636100	12212000	16736000	16371000	3859500	3267300	3002500
TRINITY_DN11546_c0_g1_i6_5	0	0	108540	212420	0	100080	0	0	0	26954000	21038000	20710000
TRINITY_DN11141_c0_g1_i6_1	0	0	0	0	0	0	0	0	0	25455000	18786000	24804000
TRINITY_DN2708_c0_g2_i1_1	763320	1189900	889210	0	0	81428	0	7205700	18020000	11806000	13266000	15819000
TRINITY_DN9530_c0_g3_i4_1	0	0	0	0	0	0	0	0	0	25216000	18230000	25472000
TRINITY_DN5278_c0_g1_i1_2	0	0	0	0	15322000	13096000	0	3275100	36690000	344230	0	0
TRINITY_DN10989_c0_g2_i2_1	1176600	907920	1394100	1276200	1308200	1160700	0	470020	0	21912000	20589000	18225000
TRINITY_DN11653_c0_g2_i1_5	357780	172010	0	0	6273700	0	0	0	2329600	20586000	20036000	18216000
TRINITY_DN7029_c0_g1_i1_3	8469000	14447000	23232000	0	681130	587500	1747400	0	0	2273400	8344300	7017500
TRINITY_DN10674_c0_g1_i3_4	4568300	4013100	3259600	3570600	3072100	2433300	13784000	13353000	14321000	652400	1560700	1576600
TRINITY_DN10049_c0_g1_i1_3	0	0	0	0	127650	0	3199000	4113900	4495600	24376000	12474000	17012000
TRINITY_DN7937_c0_g1_i2_5	108380	0	0	991360	763060	1067500	0	0	0	20103000	26952000	15555000
TRINITY_DN1722_c0_g2_i1_3	1768400	1412300	1094900	18133000	17152000	15242000	0	3677700	3572500	1856900	0	1280900
TRINITY_DN11314_c0_g1_i3_2	0	13428	0	0	0	0	0	0	0	20454000	23651000	20601000
TRINITY_DN9588_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	24604000	21952000	17982000
TRINITY_DN10926_c1_g1_i3_3	0	0	0	0	0	0	0	0	64393000	0	0	0
TRINITY_DN5721_c0_g4_i1_3	2105300	2046700	3837400	6880500	9918700	9078900	0	0	0	10316000	10179000	9338500
TRINITY_DN10576_c0_g1_i1_3	5848700	4535100	4219500	463860	1639300	1632200	2116700	2479800	3755700	15803000	12601000	7574800
TRINITY_DN11459_c1_g4_i8_2	252090	306110	209900	0	0	0	0	1479700	1553400	18841000	20497000	19435000
TRINITY_DN10492_c1_g1_i2_6	14990000	7055100	5312000	12548000	11731000	10222000	0	0	0	172650	0	403710
TRINITY_DN11529_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	19778000	21635000	20981000
TRINITY_DN10583_c0_g2_i2_1	1328500	1283700	1269200	812700	803650	0	0	1115700	6642400	21047000	8246300	19295000
TRINITY_DN12655_c0_g1_i1_2	0	0	0	0	0	0	61744000	0	0	0	0	0
TRINITY_DN8865_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	27609000	19524000	13610000
TRINITY_DN6870_c0_g1_i5_1	0	0	0	0	0	0	0	0	0	21930000	21353000	16464000
TRINITY_DN5791_c0_g1_i1_5	2101400	1527500	2513400	1687500	2165900	1143000	1067500	1092000	3412100	17395000	13085000	12035000
TRINITY_DN11572_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	21074000	13693000	24112000

TRINITY_DN10346_c0_g2_i6_3	0	0	0	0	99900	0	0	0	0	21160000	18662000	18634000
TRINITY_DN11809_c0_g1_i1_1	1139200	1614900	1780800	3129200	5316700	4782700	5642100	15758000	7529800	5606100	2992500	2934200
TRINITY_DN4290_c0_g1_i1_3	8989800	8981500	8144700	3600400	7499900	5128100	0	0	0	6031900	2450500	6792600
TRINITY_DN10866_c0_g1_i1_1	0	0	0	0	0	0	0	0	377130	22093000	20469000	14382000
TRINITY_DN11465_c0_g1_i2_2	22309000	11598000	12239000	0	164350	0	0	0	0	4500400	3316500	3133500
TRINITY_DN10466_c0_g2_i3_1	0	0	0	0	0	0	0	0	0	19730000	20243000	17191000
TRINITY_DN3729_c0_g2_i1_1	7725000	3648300	4271100	4296600	5945300	5544000	5853600	6292700	6593400	2786800	1777300	2353300
TRINITY_DN10917_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	22728000	15110000	18420000
TRINITY_DN4960_c0_g1_i2_6	791440	531100	505380	1033000	355180	0	2214300	1619700	4437500	17512000	14817000	11524000
TRINITY_DN10616_c0_g1_i2_2	8053900	1848900	6684000	13603000	7146400	9096300	0	0	0	4222400	836780	3198800
TRINITY_DN11240_c0_g2_i1_2	2738700	2650400	2597000	1556700	1405500	950580	0	324060	327830	15465000	12283000	13814000
TRINITY_DN11190_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	19116000	19675000	14962000
TRINITY_DN11571_c4_g2_i1_1	0	0	0	0	0	0	0	0	0	20519000	16775000	16240000
TRINITY_DN11669_c393_g1_i1_1	26743000	19033000	3989600	1523900	867710	826080	0	0	0	0	0	475950
TRINITY_DN10467_c0_g1_i1_1	5885200	5800000	5502500	93190	2073800	0	0	0	0	14407000	10651000	8834400
TRINITY_DN9500_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	24603000	14406000	13905000
TRINITY_DN10347_c0_g1_i1_3	415120	300100	529540	204660	262840	914820	0	0	0	20559000	15983000	13562000
TRINITY_DN5968_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	20322000	14955000	17161000
TRINITY_DN5544_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	20796000	15347000	16271000
TRINITY_DN153_c0_g1_i1_1	635920	275420	979180	2062700	3345000	6523800	16729000	7962000	10507000	1617600	1176900	548190
TRINITY_DN7265_c0_g2_i5_2	464210	304080	209950	769230	0	0	0	0	0	19475000	13082000	17265000
TRINITY_DN9812_c0_g1_i3_4	3370000	4798300	4017800	2265500	7117600	7021000	5277100	3013400	7934700	2771100	1637300	2322300
TRINITY_DN8811_c0_g1_i3_5	1366600	962110	909850	879300	433100	865730	0	0	0	17558000	19016000	9177800
TRINITY_DN10516_c0_g1_i1_2	1236800	732160	789330	1228100	672390	2774900	9109000	14555000	18458000	379800	569350	408770
TRINITY_DN4095_c0_g1_i1_4	4602900	4327200	5679700	6549700	4779200	2338700	0	0	0	6693200	10507000	5339900
TRINITY_DN14849_c0_g1_i1_6	0	0	0	0	0	0	18558000	449690	31789000	0	0	0
TRINITY_DN11228_c0_g2_i1_3	6116000	7476100	6058500	5161400	4465100	2242300	0	0	6162400	4519400	3492200	4055100
TRINITY_DN10795_c1_g1_i1_6	5233200	4136400	3919200	2815400	1620000	2430700	2374300	2039000	9500000	8015300	6042700	1316500
TRINITY_DN11220_c1_g2_i3_3	76780	50563	0	425270	589790	437430	0	0	0	17817000	15497000	14421000
TRINITY_DN11391_c0_g2_i2_4	0	0	0	0	0	0	0	0	0	19235000	13667000	16140000
TRINITY_DN2394_c0_g1_i2_6	4767900	6816800	5373100	4523400	5778900	2091200	7382100	0	9055600	856870	761630	711190
TRINITY_DN10841_c0_g2_i1_1	0	0	0	511970	505230	0	0	0	0	18689000	17071000	11104000
TRINITY_DN9488_c0_g2_i1_2	1990800	2059500	2297900	7786500	7089200	8185400	2824300	9301800	3396400	985210	846840	1117200

TRINITY_DN959_c0_g1_i1_1	163490	219520	0	0	103470	168980	0	0	0	17832000	16499000	12834000
TRINITY_DN5607_c0_g1_i1_3	8845800	6970900	2937600	3877400	739420	4827000	10027000	0	0	5097600	441030	4005200
TRINITY_DN11493_c0_g1_i5_3	2752800	2913700	3020600	1380100	1572700	0	6419600	0	13775000	6329600	3856000	5397400
TRINITY_DN18554_c0_g1_i1_2	1429800	959830	948480	2614200	981840	644470	8475100	4322900	15453000	5795100	2127300	3344100
TRINITY_DN11428_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	16040000	17485000	13512000
TRINITY_DN23504_c0_g1_i1_4	0	0	0	0	0	0	19868000	0	26855000	0	0	0
TRINITY_DN11239_c1_g2_i1_6	0	0	0	0	0	0	0	0	0	15921000	15927000	14664000
TRINITY_DN19480_c0_g1_i1_2	11901000	9309100	9244800	2343600	6126900	5043400	737890	0	0	842870	0	653830
TRINITY_DN12058_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	17028000	15170000	13688000
TRINITY_DN4635_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	19958000	15072000	10663000
TRINITY_DN6720_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	19293000	12603000	13597000
TRINITY_DN15356_c0_g1_i1_3	10542000	11577000	12622000	1077600	1404200	3522700	0	0	2969900	629470	320370	581940
TRINITY_DN10115_c0_g1_i5_2	6927800	5234900	4227600	3521300	3498800	4306300	3090500	3332500	9406000	0	652000	768200
TRINITY_DN7162_c0_g1_i1_6	3541200	8038800	7985600	2119900	6027500	1584100	2975400	6430100	3298500	1185000	0	1764400
TRINITY_DN668_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	17117000	14378000	12756000
TRINITY_DN11756_c0_g2_i2_2	167440	100720	73976	110180	0	0	10974000	2435600	7434200	8872400	6932700	6666000
TRINITY_DN3503_c0_g1_i1_2	150100	44230	403990	15768000	16672000	10090000	0	0	0	0	0	474110
TRINITY_DN10567_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	17034000	14264000	12262000
TRINITY_DN9859_c0_g2_i1_3	255260	106160	260120	0	0	306680	0	0	0	16483000	15401000	10685000
TRINITY_DN11119_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	15477000	13930000	13733000
TRINITY_DN6617_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	22154000	14067000	6796200
TRINITY_DN8937_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	19511000	10469000	12970000
TRINITY_DN8063_c0_g1_i1_3	0	0	0	157760	0	0	0	0	0	19029000	9793300	13956000
TRINITY_DN3510_c0_g1_i2_1	2140600	1755600	2169500	1520100	1051300	2028100	12817000	11096000	4636600	1466300	941830	1231100
TRINITY_DN3885_c0_g1_i1_3	383760	351170	411520	0	0	0	557260	0	0	17740000	12855000	10408000
TRINITY_DN11597_c1_g2_i2_1	0	0	0	0	0	0	0	0	0	19160000	9734300	13591000
TRINITY_DN4297_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	19566000	9879600	12952000
TRINITY_DN11427_c0_g1_i3_2	0	0	0	0	0	0	0	0	0	14830000	16583000	10863000
TRINITY_DN8289_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	18660000	11378000	12201000
TRINITY_DN9771_c0_g1_i4_2	0	0	0	0	0	0	0	0	0	20709000	10312000	10558000
TRINITY_DN11254_c0_g1_i1_3	1378200	829780	1061200	6730900	3492400	5890700	2982500	0	2694300	7746300	3371600	5297800
TRINITY_DN11103_c0_g1_i2_3	263430	0	151700	0	0	0	0	0	261970	18415000	10561000	11760000
TRINITY_DN11548_c1_g1_i1_3	2178300	1528400	1243000	1391100	3009400	2288100	10619000	0	17443000	825670	568280	293630

TRINITY_DN10949_c0_g1_i1_1	0	31678	0	0	0	0	0	0	0	16983000	11542000	12657000
TRINITY_DN11059_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	15434000	11418000	14167000
TRINITY_DN3142_c1_g1_i1_1	0	0	0	0	0	0	0	0	0	15106000	14696000	10955000
TRINITY_DN10281_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	13814000	15339000	11566000
TRINITY_DN10506_c0_g1_i1_2	6330700	3611000	3158300	1741400	4341200	4767000	0	0	2103700	4614100	5994500	3675400
TRINITY_DN9505_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	15026000	11902000	13390000
TRINITY_DN11355_c0_g1_i2_1	0	0	0	0	0	0	0	0	145550	11942000	9212300	18990000
TRINITY_DN6984_c0_g1_i1_1	3689500	4177500	6539200	2023600	2550800	3928800	3152200	6973500	5950000	0	1274300	0
TRINITY_DN9211_c0_g2_i1_1	3938200	5615000	4494600	435230	2718800	3515600	2809000	4874500	9940400	1042600	0	816520
TRINITY_DN3640_c0_g1_i2_2	7685000	1722000	1751900	2792300	3010800	4877800	5532600	1756200	1999300	4712700	3106400	1230500
TRINITY_DN11606_c0_g1_i1_4	3855800	3798800	8760800	2719300	2515800	2431700	5121300	771230	8635000	392620	522110	323850
TRINITY_DN9177_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	17398000	11206000	11145000
TRINITY_DN11073_c0_g2_i1_2	7612200	6910500	5855700	3245000	4606100	3789300	0	0	0	3092600	2080200	2474800
TRINITY_DN9688_c0_g1_i3_5	0	0	0	0	0	0	0	0	0	12984000	10012000	16574000
TRINITY_DN5149_c0_g1_i1_1	1438100	1304400	2510400	9534000	10056000	7154600	0	0	0	3075200	1919200	1992400
TRINITY_DN9163_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	12914000	13897000	12088000
TRINITY_DN9921_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	14952000	11775000	12120000
TRINITY_DN8108_c0_g1_i1_2	2585500	2452300	2565600	1434500	381840	1023000	0	0	0	9471700	9206400	9708600
TRINITY_DN11594_c0_g2_i5_1	845900	648680	1065000	1966700	3015100	1776000	13112000	9482700	3037500	1759900	639730	890750
TRINITY_DN7706_c0_g2_i2_2	0	0	0	0	0	0	0	0	0	15136000	12448000	10477000
TRINITY_DN11322_c1_g1_i2_3	0	0	0	0	0	0	0	0	301510	15409000	10218000	12005000
TRINITY_DN6946_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	15355000	11579000	10777000
TRINITY_DN11349_c1_g2_i4_3	635910	210930	185780	0	0	0	1434000	1236800	1389900	13280000	9593300	9674900
TRINITY_DN5652_c0_g3_i1_4	1335500	1449500	4189900	5799500	6076900	4723500	0	4266700	4545700	2043300	1620400	1561900
TRINITY_DN11033_c0_g1_i4_5	0	0	0	0	0	0	0	0	0	13551000	11132000	12695000
TRINITY_DN3347_c0_g1_i1_2	0	0	0	0	0	0	11595000	12404000	12891000	0	0	0
TRINITY_DN6901_c0_g1_i1_3	3721600	4044300	4013500	4446600	9618200	7247100	1155900	0	0	1416100	756530	352830
TRINITY_DN5552_c0_g1_i1_1	4398900	5829500	5713800	1621400	3104600	1291100	2860500	7105100	3190800	688030	427640	381490
TRINITY_DN10237_c0_g3_i1_1	0	0	0	0	0	0	0	0	0	15090000	8640600	12748000
TRINITY_DN11143_c0_g1_i5_1	325330	933300	1588800	6574600	8210900	7845500	3348900	0	6403900	493230	197110	340080
TRINITY_DN1882_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	13486000	11208000	11341000
TRINITY_DN10939_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	13993000	12040000	9950100
TRINITY_DN7127_c0_g1_i1_1	161750	0	155210	1814700	1249400	1646100	0	0	0	14828000	9515400	6432900

TRINITY_DN11501_c0_g1_i3_2	828180	1020800	903560	340830	896700	412060	0	0	0	12409000	9523700	9349000
TRINITY_DN9883_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	11529000	9194200	14842000
TRINITY_DN10759_c0_g1_i2_5	0	0	0	0	0	0	0	0	0	13349000	11299000	10902000
TRINITY_DN11019_c0_g1_i2_2	0	0	0	0	116860	0	0	0	0	15638000	9769100	9919800
TRINITY_DN10818_c0_g1_i3_1	0	0	0	0	0	0	0	0	0	13027000	12251000	10076000
TRINITY_DN20642_c0_g1_i1_4	2648700	1312200	1076900	466450	428770	327910	11505000	16580000	0	555280	303960	103110
TRINITY_DN9556_c1_g1_i2_1	3582100	5073200	4351000	3303900	3415300	2197000	3335000	4323900	3855000	583080	562210	467610
TRINITY_DN10502_c0_g2_i8_3	0	0	0	0	0	0	0	0	0	13829000	10628000	10591000
TRINITY_DN10701_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	11948000	11388000	11566000
TRINITY_DN11433_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	11755000	14102000	9019500
TRINITY_DN6503_c0_g2_i1_1	0	582520	0	92933	0	0	0	0	0	12652000	11882000	9390900
TRINITY_DN6738_c0_g1_i1_3	167950	368430	238580	897160	924360	836380	8529900	0	22540000	0	0	0
TRINITY_DN9643_c0_g1_i1_2	844840	1528400	1441700	838340	1743400	1075700	4110400	7178700	10398000	1808400	871230	2360800
TRINITY_DN2791_c0_g1_i1_3	3334000	3639200	3688500	3535000	3611700	2948400	895870	5362500	5566500	873040	277450	402460
TRINITY_DN11325_c0_g1_i1_1	0	0	0	0	0	0	1454800	0	2705400	12356000	9253100	8266100
TRINITY_DN7495_c0_g1_i1_1	983830	1142900	1430900	1395400	1860900	1598600	0	4908100	1020900	5965400	6621400	7062500
TRINITY_DN2602_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	15213000	9275400	9453000
TRINITY_DN11605_c1_g2_i1_4	0	0	0	0	0	0	0	0	0	12471000	11317000	10067000
TRINITY_DN6250_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	15481000	8536700	9809700
TRINITY_DN6615_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	12953000	10380000	10457000
TRINITY_DN1128_c0_g2_i1_2	18160000	0	15486000	0	0	0	0	0	0	0	0	0
TRINITY_DN4481_c0_g1_i3_5	0	0	0	0	0	0	0	0	0	6536100	16333000	10733000
TRINITY_DN1332_c0_g1_i1_2	2925800	947700	2079900	5702600	11543000	9097600	799440	0	0	267520	0	0
TRINITY_DN10179_c0_g1_i1_1	901390	834590	875620	0	123840	115020	0	0	0	9137100	11265000	10055000
TRINITY_DN5568_c0_g1_i1_2	3861600	1627400	2140000	5302200	1684500	3134900	5813600	4028100	4285400	271040	856900	186000
TRINITY_DN11161_c0_g2_i1_1	867240	978840	1241000	974390	2157100	915200	0	2721800	3325100	9738800	5055700	5028200
TRINITY_DN4141_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	11573000	11681000	9526200
TRINITY_DN15874_c0_g1_i1_6	2795300	714960	1953000	310830	355830	270240	7367700	0	7322600	1029400	3142900	7506900
TRINITY_DN10532_c0_g1_i1_4	614900	627710	1101700	1688900	7408200	2072100	8608400	3480200	3292600	1437400	1164500	1114900
TRINITY_DN6875_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	14827000	3334100	14438000
TRINITY_DN7117_c0_g2_i2_1	75548	111560	0	0	0	0	0	0	0	10399000	12447000	9501800
TRINITY_DN19584_c0_g1_i1_1	2087900	1880300	2698200	3998600	5341400	3619200	1018400	1020700	1287900	3652500	2312100	3497700
TRINITY_DN11441_c0_g1_i2_3	883790	528530	536050	1164500	502890	522450	0	0	0	10815000	9529700	7821600

TRINITY_DN11585_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	12604000	9935500	9764700
TRINITY_DN9778_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	10457000	12122000	9561200
TRINITY_DN10084_c0_g1_i3_3	4407600	5782700	6242200	1922200	2711600	4362400	2117800	0	0	534580	2077100	1976100
TRINITY_DN8707_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	15148000	6722100	10153000
TRINITY_DN8413_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	11955000	12999000	7051400
TRINITY_DN11449_c0_g2_i5_3	0	0	0	0	0	0	0	0	0	13144000	8739000	10070000
TRINITY_DN21888_c0_g1_i1_3	5097300	5157800	5616300	4271700	4925600	4294800	0	0	0	994000	1573500	0
TRINITY_DN10361_c1_g2_i1_1	0	0	0	0	0	0	0	0	0	13109000	8270300	9666300
TRINITY_DN7454_c0_g1_i1_5	1134400	764090	1282000	2160100	3274200	3595000	5693600	3078300	9264600	557560	206330	0
TRINITY_DN11044_c0_g1_i1_3	0	0	0	0	128560	0	0	0	0	12427000	9067000	9320200
TRINITY_DN10694_c0_g1_i1_2	1585400	2502000	2889800	2268800	2449400	2541100	2056500	2263500	3083800	4277900	2056100	2964200
TRINITY_DN7765_c0_g1_i1_3	0	0	0	0	0	0	496330	0	0	12388000	9298800	8571700
TRINITY_DN10259_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	10789000	11479000	8451700
TRINITY_DN10666_c0_g1_i1_3	630910	0	0	227770	229920	160780	0	0	0	10028000	10443000	8944000
TRINITY_DN8743_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	11060000	9928300	9662100
TRINITY_DN7469_c0_g1_i1_3	2292400	3340900	3751900	4223600	3232200	1328100	2352100	3215300	3491100	1381500	1171300	847350
TRINITY_DN9596_c0_g1_i2_1	1004400	1104100	914790	1122200	1071100	727130	0	0	0	9731900	5431900	8903500
TRINITY_DN9658_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	11166000	8849500	9985400
TRINITY_DN7483_c0_g2_i2_4	0	0	0	0	0	0	0	0	0	11514000	7885200	10462000
TRINITY_DN10418_c0_g1_i1_1	4099800	6929700	4797500	2356100	4633200	2789100	0	0	0	1531200	1758800	884120
TRINITY_DN6749_c0_g1_i3_2	0	0	0	0	0	0	0	0	0	12467000	8932500	8317100
TRINITY_DN10064_c0_g1_i1_6	1747900	1975400	1892500	7745800	9079100	6627200	0	0	0	0	454890	182640
TRINITY_DN10803_c0_g1_i1_1	711910	778370	750490	2708800	10145000	2364800	0	0	0	3800300	2879300	5302800
TRINITY_DN10303_c0_g1_i1_3	1090900	1670300	1751500	0	2657000	1285500	300740	0	0	8888000	6481000	4988700
TRINITY_DN2784_c0_g1_i1_3	2478500	1585900	2008200	1116600	1702200	390500	4989700	0	3134400	4319600	3908900	3407100
TRINITY_DN12921_c0_g1_i1_6	269970	1583700	1591100	1102300	4537700	3039700	1712400	0	2413100	4919200	3045500	4716600
TRINITY_DN9516_c0_g1_i2_6	0	0	0	0	0	0	0	0	0	11517000	9435600	7770300
TRINITY_DN9036_c0_g1_i1_2	3684400	1975300	3459100	1856300	3362500	1633200	5037300	5817600	0	919320	442950	453490
TRINITY_DN20791_c0_g1_i1_4	14294000	14259000	0	0	0	0	0	0	0	0	0	0
TRINITY_DN6266_c0_g1_i2_5	0	0	0	0	0	0	0	0	0	11150000	10728000	6502200
TRINITY_DN11086_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	10349000	8156000	9864200
TRINITY_DN3111_c0_g2_i1_2	1337000	1117400	1370200	1260000	160730	202040	0	0	340270	8907500	6753900	6838900
TRINITY_DN10597_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	9629400	9969300	8576200

TRINITY_DN10098_c0_g1_i3_1	1073800	2218600	3612100	0	6616800	4897700	0	0	3043600	2951600	1807200	1932200
TRINITY_DN6445_c0_g1_i1_3	0	0	0	0	0	0	1489800	1312500	1618300	7062600	9309000	7233000
TRINITY_DN10634_c0_g1_i2_4	4285400	5297100	6318700	2473100	2815200	1741600	0	0	0	1984100	1447300	1635900
TRINITY_DN5741_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	10612000	8917300	8238200
TRINITY_DN7128_c0_g2_i1_1	1370400	1247800	958260	943770	808670	1824400	1808400	9402900	6382400	1381700	542890	998850
TRINITY_DN11601_c0_g2_i2_5	485430	300110	473730	417000	109730	108990	181160	0	0	11070000	6328900	8111400
TRINITY_DN9962_c0_g2_i1_2	5532500	8155700	0	2213500	3607600	2693300	0	3456000	0	0	0	1928800
TRINITY_DN10845_c0_g1_i2_1	0	0	0	0	0	0	0	320380	285270	11891000	6849200	8068200
TRINITY_DN10542_c0_g1_i1_2	1195400	623590	841450	797380	1948300	2087200	0	0	0	7745800	6463900	5658600
TRINITY_DN7441_c0_g1_i1_6	615450	3816900	1819800	560870	5508400	4429900	0	0	0	3859000	3583100	3134000
TRINITY_DN10521_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	12402000	7491400	7408200
TRINITY_DN10791_c2_g1_i3_2	1128200	659430	779110	1139600	1044000	565510	6517700	7394600	7578600	0	130360	251560
TRINITY_DN11097_c0_g1_i2_6	2997300	4297100	3814200	0	3067800	881810	0	4707300	4753600	1192700	315350	972860
TRINITY_DN8226_c0_g1_i1_1	1094900	535010	1107900	2544300	1288700	787400	1792200	0	607700	5755100	6453800	4927700
TRINITY_DN8836_c0_g1_i1_2	375290	2929900	773090	2286000	4465400	5059500	470400	3560500	3071900	1404400	1438900	982110
TRINITY_DN9745_c0_g1_i2_1	0	0	0	0	61116	164580	0	0	0	12267000	6654000	7596500
TRINITY_DN6745_c0_g1_i6_1	1358700	1414500	280670	0	1367500	1295400	0	7091000	3609200	3964600	3112100	3227300
TRINITY_DN10651_c0_g1_i1_1	2272700	1550000	1627200	600770	759450	504450	941790	0	0	7505400	7241400	3584200
TRINITY_DN3758_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	10458000	8921100	7080600
TRINITY_DN9555_c0_g1_i2_4	0	0	0	0	0	0	0	0	0	15210000	11032000	0
TRINITY_DN8044_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	10930000	9455400	5722900
TRINITY_DN5302_c0_g2_i1_4	0	0	0	484560	0	0	0	0	24759000	451640	0	401890
TRINITY_DN9331_c0_g1_i5_4	0	0	0	0	0	0	0	0	0	11016000	8194900	6703200
TRINITY_DN10842_c0_g1_i1_3	0	0	0	2290600	2681900	0	0	0	0	8840400	3240900	8809400
TRINITY_DN10737_c0_g1_i2_1	999500	683600	482310	163460	0	233440	1200400	11201000	10895000	0	0	0
TRINITY_DN11246_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	7871300	9336400	8630100
TRINITY_DN10802_c0_g1_i2_2	3843200	4323100	3657800	2275900	3387800	1816900	4350900	0	0	682400	709630	635020
TRINITY_DN10937_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	11539000	7491200	6643000
TRINITY_DN5821_c0_g1_i2_2	6551100	4447200	5371600	1950800	0	1614700	0	0	0	2196800	1779500	1750900
TRINITY_DN7491_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	9857000	6554500	9112200
TRINITY_DN10883_c0_g1_i2_4	16311	0	0	1073900	751000	562200	7176000	8161700	7612300	0	0	0
TRINITY_DN9369_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	9509200	8670100	7070600
TRINITY_DN15371_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	8597300	8463900	8003800

TRINITY_DN8535_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	11320000	4408000	9325400
TRINITY_DN11283_c0_g1_i3_1	0	0	0	0	0	0	0	0	0	10012000	6507500	8473900
TRINITY_DN10469_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	11625000	7919600	5447100
TRINITY_DN6972_c0_g1_i1_5	4471700	2724000	2822500	555940	90417	1805500	1247500	3582900	6722000	0	587030	259310
TRINITY_DN9766_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	10215000	6794200	7788700
TRINITY_DN6771_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	9820000	7741000	7139000
TRINITY_DN11054_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	6486800	11279000	6929900
TRINITY_DN11476_c0_g1_i2_1	1801200	1598500	1935400	354440	1848200	658680	0	0	0	7042600	4811700	4618100
TRINITY_DN9150_c0_g1_i3_1	66192	67986	39858	0	769840	0	7503300	0	13185000	1446900	1117000	468530
TRINITY_DN8849_c0_g2_i3_2	3318700	4051800	4305300	2485300	3009200	2312500	0	0	5092500	0	0	0
TRINITY_DN7905_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	10394000	7309600	6789100
TRINITY_DN9056_c0_g1_i1_6	589230	549270	758000	1417500	1536400	1344100	3067000	4176300	9772100	406550	182360	687620
TRINITY_DN8426_c0_g1_i2_3	0	0	0	0	64977	0	5088600	9088200	10139000	0	0	0
TRINITY_DN4385_c0_g1_i1_2	5266300	3328500	2602000	1085500	3611300	1591800	0	0	5459300	559580	645580	0
TRINITY_DN21126_c0_g1_i1_1	242880	245470	435150	5927700	5162800	5738800	0	0	0	2435900	1960700	1934800
TRINITY_DN11515_c0_g1_i3_1	0	0	0	0	0	0	0	0	0	9193700	7833500	6891200
TRINITY_DN12722_c0_g1_i1_1	2666400	2881400	3086400	5079400	4343400	5182300	0	0	0	625960	0	0
TRINITY_DN11139_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	9072300	9247400	5491500
TRINITY_DN10080_c0_g1_i1_1	619870	2156100	557450	1352300	0	0	3918200	5914700	7348200	375120	857360	622640
TRINITY_DN8178_c0_g1_i2_3	1553600	1541400	1821200	803000	1274600	813000	1070900	0	1612500	7300100	2981500	2949600
TRINITY_DN130_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	9667500	6078500	7959900
TRINITY_DN11280_c0_g1_i4_3	0	0	0	0	0	0	0	0	0	9802100	9284500	4527900
TRINITY_DN11620_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	9605900	5848400	7977300
TRINITY_DN11411_c1_g1_i3_5	157790	0	48943	166770	176710	0	233270	0	0	3116900	9906500	9591100
TRINITY_DN9704_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	3415900	6445900	13506000
TRINITY_DN2711_c0_g1_i1_3	2680400	1967700	2265200	2284500	3541600	1186100	0	0	0	3967400	2425700	2987400
TRINITY_DN10623_c0_g1_i2_5	0	0	0	0	0	0	0	0	0	8107300	8298200	6856400
TRINITY_DN9395_c0_g2_i1_3	959810	1810800	2039500	1337400	1309900	1017500	0	0	0	6252400	4491500	3995300
TRINITY_DN10777_c0_g1_i2_2	4212500	3229400	2763300	2543200	2309000	0	1895400	2051900	3237900	375680	0	531630
TRINITY_DN8939_c0_g1_i1_1	2182900	2754200	2400100	2287800	3369500	1533000	1362500	1389400	1515800	1506300	1634500	1164600
TRINITY_DN14055_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	22870000	73453	0
TRINITY_DN5112_c0_g2_i3_3	1463900	1898700	2039600	1498600	2436000	3357600	0	0	0	4246800	3129400	2826400
TRINITY_DN3053_c0_g1_i1_6	1963600	3590200	2955200	5506600	4475200	2417300	0	0	0	561480	520310	904300

TRINITY_DN3542_c0_g2_i1_1	4193800	4903800	5663000	2416500	2495300	1984000	0	0	715400	342620	162570	0
TRINITY_DN8778_c0_g1_i2_2	439580	0	651810	2458100	3229500	2090400	3392900	6180300	4320300	0	0	0
TRINITY_DN8889_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	9590700	6135400	6775400
TRINITY_DN6086_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	8933300	6189300	7374200
TRINITY_DN9418_c0_g1_i2_5	0	0	0	0	0	0	0	0	0	9293800	6369500	6818100
TRINITY_DN9810_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	8591300	8303500	5504200
TRINITY_DN6193_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	8435800	7049700	6901000
TRINITY_DN9474_c1_g1_i1_5	305860	0	212360	491640	0	0	5180600	7252000	7751300	283510	699600	202260
TRINITY_DN10292_c0_g1_i2_6	3055500	2817900	3185000	3807100	4069300	4474500	0	813270	0	0	0	0
TRINITY_DN11230_c0_g2_i2_6	3489900	280600	4419500	1105700	1149000	2023900	649350	1413200	2449400	1059600	2483200	1639000
TRINITY_DN10344_c0_g1_i1_2	660890	114930	1144300	2765600	2528100	2241900	0	0	8347800	701500	1080400	2565600
TRINITY_DN11434_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	7362800	7970100	6740600
TRINITY_DN11361_c0_g1_i1_2	166110	0	125760	1023400	791260	648700	0	0	0	7296500	3972000	8040500
TRINITY_DN10628_c0_g1_i1_3	0	0	0	0	0	0	0	1637400	3599900	8163900	4169600	4481400
TRINITY_DN5840_c0_g1_i1_1	1295600	2391500	1240700	595150	1312100	1473100	2673700	4354800	3596100	1335400	836160	891250
TRINITY_DN10700_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	8937200	7012000	5884400
TRINITY_DN10484_c2_g1_i2_1	5521100	3333300	3680500	2609500	1254500	1844600	1941700	0	0	0	0	1604800
TRINITY_DN11431_c0_g1_i3_5	0	0	0	0	0	0	0	0	0	5522000	8395000	7853600
TRINITY_DN9680_c0_g1_i1_1	1907700	1952600	2163800	1802200	627210	1224800	6984300	5089200	0	0	0	0
TRINITY_DN53_c0_g1_i1_5	6302500	6448100	8999300	0	0	0	0	0	0	0	0	0
TRINITY_DN13553_c0_g1_i1_2	2333300	3472100	3077400	1264000	1892100	167190	0	0	0	2406900	1994600	4964900
TRINITY_DN10106_c0_g1_i2_1	0	172800	0	0	0	0	0	0	0	6113700	4935500	10316000
TRINITY_DN10104_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	9514500	6342300	5664300
TRINITY_DN11228_c0_g1_i1_3	1342200	1369500	841600	1225600	1315600	1153200	4083500	5939900	3739200	221530	0	234170
TRINITY_DN9356_c0_g1_i2_6	0	0	0	0	0	0	0	0	0	10538000	6459000	4362100
TRINITY_DN10740_c0_g1_i5_5	0	0	20728	0	141250	0	0	0	0	7031900	7161100	6993700
TRINITY_DN15242_c0_g1_i1_5	0	130080	166070	0	0	0	6254800	6464800	7699900	273780	213370	0
TRINITY_DN10478_c0_g2_i1_1	1340100	1106500	1150700	0	2780000	4784200	762690	4064900	0	2338800	667300	2079300
TRINITY_DN10321_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	8129800	6705800	6130000
TRINITY_DN17896_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	7280500	6755200	6906800
TRINITY_DN5702_c0_g1_i1_3	0	0	0	92770	0	0	0	0	0	9906300	5508300	5429400
TRINITY_DN6940_c0_g9_i5_6	0	0	0	0	0	0	0	0	0	7736400	6281200	6773300
TRINITY_DN10205_c0_g1_i1_2	2816800	3235900	2934500	1299700	4493700	3648400	0	0	0	831150	778720	696660

TRINITY_DN10892_c0_g1_i2_4	0	0	0	0	0	0	0	0	0	7675700	6691700	6319200
TRINITY_DN11295_c0_g2_i3_1	0	0	0	0	0	0	0	0	0	6533900	9737100	4380000
TRINITY_DN10858_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	7091700	7533100	6017600
TRINITY_DN10871_c0_g1_i3_2	0	0	0	0	0	0	0	0	0	6830800	6254000	7551600
TRINITY_DN6968_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	8518700	4989000	7110000
TRINITY_DN6689_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	7356100	7253200	6000200
TRINITY_DN10111_c0_g1_i3_2	0	0	0	0	0	0	0	0	0	9323500	6842200	4378500
TRINITY_DN9976_c0_g4_i1_4	0	0	0	0	0	0	0	0	0	11178000	0	9360900
TRINITY_DN11601_c0_g1_i1_1	230820	57751	195840	235080	0	0	0	0	0	11279000	4685900	3703900
TRINITY_DN4015_c0_g1_i1_2	3382700	3093200	5228100	3297800	2970600	2089600	0	0	0	0	0	236660
TRINITY_DN10140_c0_g1_i1_2	1613900	1603100	1928700	4507000	4132400	2292600	757080	959480	1438400	361850	0	596920
TRINITY_DN2592_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	7332300	5437700	7349500
TRINITY_DN10378_c0_g2_i2_1	1904600	2871200	2920900	1149800	1114900	0	0	0	1700900	2282300	3723100	2256700
TRINITY_DN8575_c0_g2_i3_2	3968900	4889200	3932600	0	3361200	1924800	0	0	0	663350	588050	567130
TRINITY_DN11259_c0_g1_i2_5	219290	122450	74721	635990	0	618120	0	0	0	6287700	6701200	5204800
TRINITY_DN11269_c2_g1_i2_3	126860	143770	103030	0	0	0	0	0	821030	7416400	7165400	3904400
TRINITY_DN9965_c1_g1_i1_3	1322500	554390	391710	0	0	0	0	0	0	6265200	7186700	3910900
TRINITY_DN9622_c1_g1_i2_2	0	0	0	0	0	0	0	0	0	6592700	7556700	5379200
TRINITY_DN10079_c0_g1_i1_3	1156700	842430	1434500	1679800	1835100	500100	572370	0	0	5714700	2528700	3229800
TRINITY_DN3545_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	5776300	3566400	10109000
TRINITY_DN5659_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	8757700	6729200	3959500
TRINITY_DN5550_c0_g1_i2_4	2409900	1980800	2834400	2549900	4219200	689430	1002200	1017500	1120100	862680	257150	387690
TRINITY_DN11000_c0_g1_i1_2	30357	73434	64736	0	103010	0	0	0	0	7757100	6628300	4630500
TRINITY_DN9087_c0_g1_i2_1	4277800	5583900	3766400	2003900	0	1867400	0	0	0	587350	451490	736140
TRINITY_DN9399_c0_g1_i2_1	1876900	2396000	818820	4099600	2850700	1357100	3173100	0	0	1167500	154840	1356300
TRINITY_DN11102_c0_g1_i4_6	1632300	2191000	2584200	3657800	3600400	3952500	0	0	0	0	691730	919520
TRINITY_DN7857_c0_g1_i4_2	0	0	0	0	0	0	0	0	0	7790700	5336100	6101300
TRINITY_DN5480_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	7757800	6440000	4975300
TRINITY_DN3630_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	7619700	7202700	4311800
TRINITY_DN3986_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	8989100	5214800	4914500
TRINITY_DN10586_c0_g1_i1_1	854430	239910	746810	2818800	2608400	2713400	0	0	0	3127800	2688900	3250600
TRINITY_DN10813_c1_g1_i3_3	0	0	0	0	0	0	0	0	0	7753900	4915500	6284200
TRINITY_DN21280_c0_g1_i1_3	1569500	4470800	1538900	3115300	2962300	3637300	0	0	0	455250	418050	743180

TRINITY_DN7020_c0_g1_i1_2	2013800	2397100	2273300	0	548350	0	0	0	0	4558900	4640400	2440100
TRINITY_DN10799_c0_g2_i1_6	110430	0	1080300	2639000	2572900	3721100	741290	0	0	4223200	1354600	2362200
TRINITY_DN8664_c0_g1_i3_3	42312	182700	51254	0	0	0	0	0	0	6149200	5804200	6396500
TRINITY_DN9559_c0_g1_i1_3	2074000	2445100	2029800	2951600	3247600	2618600	0	0	0	769540	863550	1452900
TRINITY_DN11471_c0_g1_i3_3	0	0	0	0	0	0	0	0	0	6346000	4802500	7291400
TRINITY_DN7380_c0_g3_i1_1	871340	1141500	1001000	4233500	6645800	4473200	0	0	0	0	0	0
TRINITY_DN9887_c0_g1_i1_2	0	0	0	0	0	0	1495600	1779300	3999900	2535600	4487500	4047900
TRINITY_DN10568_c0_g3_i5_1	0	0	0	217560	0	0	0	0	0	8459900	5263800	4387000
TRINITY_DN10508_c0_g1_i1_5	0	0	0	0	0	0	5467100	5836600	6962000	0	0	0
TRINITY_DN9574_c0_g1_i3_1	0	0	0	0	0	0	0	0	0	7099100	4517700	6556800
TRINITY_DN6731_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	7275800	3706100	7183600
TRINITY_DN10793_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	7256100	5438000	5461300
TRINITY_DN10605_c0_g1_i4_2	0	0	0	0	0	0	0	0	0	7922000	6423400	3627000
TRINITY_DN7923_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	7237500	5954800	4713700
TRINITY_DN8263_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	5593100	8281200	4013100
TRINITY_DN5337_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	7055700	6570000	4238100
TRINITY_DN11163_c0_g1_i8_3	0	0	0	0	0	0	0	0	0	7072700	7179500	3599300
TRINITY_DN10512_c1_g1_i1_2	1532900	1792600	1683300	5392600	3287900	2406000	0	0	0	0	859980	872310
TRINITY_DN5432_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	5850400	6236100	5723000
TRINITY_DN10108_c0_g1_i2_5	0	0	0	0	0	0	0	0	0	7170400	4720800	5898800
TRINITY_DN10975_c0_g2_i1_3	1292100	2145600	2371900	1025200	2778600	2578300	2069500	298200	2151800	0	520590	554920
TRINITY_DN10736_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	6054400	6054600	5659700
TRINITY_DN7422_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	5770400	7010800	4982800
TRINITY_DN10308_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	6877900	5278000	5594400
TRINITY_DN10384_c0_g3_i1_3	0	0	0	0	0	0	147370	0	0	7254400	5776800	4553100
TRINITY_DN3139_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	5777000	5808200	6050300
TRINITY_DN10364_c0_g1_i3_6	280290	533640	660010	0	0	690510	0	0	0	2558800	5344500	7369500
TRINITY_DN20886_c0_g1_i1_5	1937700	1658900	1251300	1068600	2032600	941450	1583100	2142700	2028900	666530	1494700	606620
TRINITY_DN10883_c0_g1_i3_5	58044	22194	48488	1685400	2166600	1391600	2489200	0	9526200	0	0	0
TRINITY_DN17539_c0_g2_i1_3	0	0	0	0	88342	0	0	0	0	6136000	4569900	6542200
TRINITY_DN10477_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	6314600	6875300	4125400
TRINITY_DN6686_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	6780900	5832600	4617400
TRINITY_DN11212_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	6684300	4923500	5574800

TRINITY_DN11023_c0_g1_i2_1	0	0	0	244130	312240	252560	0	0	0	7137000	4480400	4740900
TRINITY_DN11458_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	8245100	4587800	4288800
TRINITY_DN11615_c0_g1_i1_1	734740	2764900	1566400	0	0	0	0	0	0	6639700	4242400	1063100
TRINITY_DN4509_c0_g2_i1_3	2740000	2569300	1926600	2457900	1448400	625470	0	1712200	2898200	237480	201290	173500
TRINITY_DN11335_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	8022700	4441600	4507400
TRINITY_DN5118_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	7998700	6135400	2811600
TRINITY_DN9738_c2_g1_i2_3	514340	104000	259130	0	0	0	0	1792000	0	4995500	3524800	5732200
TRINITY_DN11571_c2_g3_i1_1	0	0	0	0	0	0	0	0	0	6232700	7521400	3069300
TRINITY_DN17391_c0_g1_i1_5	4719000	1686600	2709100	772160	2110900	4749800	0	0	0	0	0	0
TRINITY_DN10823_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	5659800	5632500	5402500
TRINITY_DN11383_c0_g1_i1_2	3729300	2601200	2727300	1483400	2336500	0	0	0	0	1970600	1399500	413490
TRINITY_DN6993_c0_g1_i3_2	0	0	0	0	0	0	0	0	0	5719300	4835300	6081800
TRINITY_DN11668_c1_g1_i1_2	0	0	0	0	0	0	0	0	0	5930900	5987900	4674800
TRINITY_DN3731_c0_g1_i2_3	0	0	0	175510	0	139850	0	0	0	5856700	5137300	5160800
TRINITY_DN10138_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	5969600	5570400	4894100
TRINITY_DN8211_c0_g1_i2_3	2174700	1853700	2230600	1700600	2374200	1615300	1752000	0	2263700	0	280790	91169
TRINITY_DN20888_c0_g1_i1_3	562970	182540	317090	1379400	1531200	0	4379200	0	5871800	992880	670950	420720
TRINITY_DN11494_c0_g1_i2_5	0	0	0	0	0	0	0	1509100	1419500	5287700	4004500	4057600
TRINITY_DN7194_c1_g1_i2_2	0	0	0	0	0	0	364240	0	0	5796100	5269700	4819700
TRINITY_DN8262_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	6581600	5009100	4560600
TRINITY_DN14510_c0_g1_i1_2	7014000	3580700	3102800	0	1066000	875120	0	0	0	180300	157640	146770
TRINITY_DN9908_c0_g1_i2_1	0	0	177000	0	902300	0	4903000	0	10064000	0	0	0
TRINITY_DN5370_c0_g1_i1_1	1347600	1160200	2137400	0	776650	1484500	0	0	0	3167000	2426800	3515000
TRINITY_DN2867_c0_g1_i2_6	374670	269370	229500	437760	0	357720	4749100	3004100	5694400	310630	249570	251920
TRINITY_DN10919_c0_g1_i5_1	0	0	0	0	0	0	5019400	5104700	5804100	0	0	0
TRINITY_DN8081_c0_g1_i3_3	207630	0	0	226740	126630	0	0	0	0	6098400	3910600	5306100
TRINITY_DN10953_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	5995400	4967000	4913000
TRINITY_DN3942_c0_g1_i3_3	0	0	0	0	0	0	0	0	0	7213400	4575700	3962300
TRINITY_DN6284_c0_g1_i1_3	120490	59464	212290	636630	670480	801140	0	0	0	4346400	4308100	4495300
TRINITY_DN6272_c0_g1_i1_2	226540	652660	239960	0	111510	0	1840200	0	3240100	2708500	3166900	3424600
TRINITY_DN10835_c0_g1_i2_3	1775700	955770	811210	4975700	3591500	174960	0	0	0	1141300	1292300	774200
TRINITY_DN3173_c0_g3_i1_1	670830	814610	429600	0	562050	0	0	0	1138500	4997500	3093600	3780300
TRINITY_DN8566_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	6956800	4230700	4273000

TRINITY_DN18516_c0_g1_i1_1	1270700	3551600	1977500	990390	1505500	2560700	0	0	0	788810	1540600	1187800
TRINITY_DN10724_c0_g1_i4_1	392600	506100	437860	0	0	0	0	0	0	4707800	5557000	3763600
TRINITY_DN10229_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	6871900	3246600	5245800
TRINITY_DN2734_c0_g1_i1_1	0	13830	67661	0	0	0	6552900	4655300	0	1381300	1427200	1178800
TRINITY_DN2645_c0_g2_i1_3	2852700	1560800	1516700	1308400	1844700	1177800	2054400	0	2609800	338750	0	0
TRINITY_DN11051_c0_g2_i2_2	0	0	0	0	0	0	0	0	0	6412900	4832500	3974500
TRINITY_DN6332_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	5979300	4714900	4417000
TRINITY_DN10847_c0_g1_i5_1	234400	463760	384430	0	0	796870	1696300	1624300	0	2390700	3984400	3513300
TRINITY_DN9500_c0_g1_i4_1	0	0	0	0	0	0	0	0	0	7054800	4146900	3873400
TRINITY_DN9205_c0_g1_i1_1	2817000	1486400	1808300	880250	0	851940	0	0	0	4021200	581440	2620400
TRINITY_DN10268_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	5482000	4283200	5301300
TRINITY_DN11412_c0_g1_i3_3	0	0	0	0	0	0	0	0	0	5753100	4993900	4270600
TRINITY_DN4589_c0_g1_i2_4	2151500	1543700	1593000	4765300	2926600	1425800	0	0	0	213970	267930	121170
TRINITY_DN11511_c2_g1_i3_5	4112300	3452700	3719800	1196900	1083100	1036500	0	0	0	216110	0	154110
TRINITY_DN3847_c0_g1_i1_1	1752000	1398300	1417900	1979900	2471500	2665900	0	0	0	1106800	1168500	917920
TRINITY_DN11039_c0_g1_i5_1	0	0	0	0	0	0	0	0	0	5793900	4868500	4191100
TRINITY_DN10019_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	4470500	6159500	4211300
TRINITY_DN10360_c0_g3_i2_3	0	0	0	0	0	0	0	0	0	7350100	3227300	4243300
TRINITY_DN11478_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	6671000	4848500	3247000
TRINITY_DN16366_c0_g1_i1_4	1156500	2429800	1891500	2556100	3142500	2106000	0	0	0	575240	475210	431810
TRINITY_DN9354_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	5890500	4529000	4307300
TRINITY_DN6770_c0_g1_i2_3	1132500	1005500	965620	1557000	1663700	1375500	391940	1250800	4752200	313390	189580	111400
TRINITY_DN5978_c0_g1_i1_4	477650	108300	218560	1504100	1028100	499440	325530	0	0	3718400	3623200	3136000
TRINITY_DN10247_c0_g2_i1_3	801480	542340	633140	676070	1310300	1072500	1021800	4584000	2733500	402250	408730	335150
TRINITY_DN8913_c1_g2_i1_1	0	0	0	0	0	0	0	0	0	4477700	5634700	4384900
TRINITY_DN11338_c0_g1_i2_4	0	0	0	0	0	0	0	0	0	6316300	4659600	3506200
TRINITY_DN11312_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	5502900	4744000	4207000
TRINITY_DN10708_c0_g1_i1_2	245630	330930	351670	598990	129240	155410	1253300	1183800	2138200	2638100	2204200	3223500
TRINITY_DN10573_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	5982500	3221600	5244800
TRINITY_DN6429_c0_g1_i3_5	0	0	0	0	0	0	0	0	0	5354200	5967600	3125700
TRINITY_DN8180_c0_g1_i1_1	616660	74528	415620	1373000	1266900	0	4287100	0	5696800	692230	0	0
TRINITY_DN11655_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	5405100	4122000	4876500
TRINITY_DN8076_c0_g1_i7_3	0	0	0	0	0	0	0	0	0	4836500	6747400	2814800

TRINITY_DN9094_c0_g1_i3_6	2162500	2825200	2971100	1566900	2198800	835620	0	0	0	649400	369050	718340
TRINITY_DN9800_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	5987500	4242400	4052800
TRINITY_DN21582_c0_g1_i1_3	1145500	602720	1190300	375310	356600	450320	2080700	4437400	2513900	601610	520590	0
TRINITY_DN11557_c0_g2_i2_1	2741900	954510	1298300	2431300	3934000	0	0	0	0	628650	1781300	472670
TRINITY_DN9080_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	4320700	3739600	6154800
TRINITY_DN19006_c0_g1_i1_5	153020	0	0	0	403330	273940	1302600	1366900	1812700	4666800	1828800	2374600
TRINITY_DN2622_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	5025300	3463900	5652100
TRINITY_DN1894_c0_g2_i1_5	0	0	0	0	0	0	6083900	0	7890900	0	132680	0
TRINITY_DN10750_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	5341700	4721200	4036300
TRINITY_DN336_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	3541600	3661300	6892600
TRINITY_DN10712_c0_g1_i2_6	0	0	932320	0	0	0	0	0	0	5328000	4191600	3554400
TRINITY_DN2749_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	5180400	5447500	3303500
TRINITY_DN6944_c1_g2_i2_2	0	0	0	0	0	0	13827000	0	0	0	88442	0
TRINITY_DN10708_c1_g1_i1_1	679930	586700	325070	411950	725320	211840	1178500	0	1327700	3051400	2094900	3288100
TRINITY_DN8860_c0_g2_i3_2	1649100	2196600	2884000	1138500	1286200	1262900	0	0	0	1247000	671170	1529500
TRINITY_DN2935_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	4303500	6161700	3395700
TRINITY_DN5345_c0_g1_i1_1	0	149150	0	3172600	3299700	2001400	491000	984680	0	944600	1297700	1481700
TRINITY_DN2696_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	5187300	2463400	6157100
TRINITY_DN6268_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	5273500	2936300	5589600
TRINITY_DN20535_c0_g1_i1_2	0	0	0	3697100	4247300	3530900	0	0	0	1033700	725590	537920
TRINITY_DN6734_c0_g1_i2_4	0	0	0	0	0	0	0	0	0	4588100	4257500	4850200
TRINITY_DN10790_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	6445600	5359200	1860400
TRINITY_DN11422_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	5130300	4571600	3924900
TRINITY_DN4447_c0_g1_i1_4	0	0	0	1532100	4018100	7693600	0	0	0	141860	172320	0
TRINITY_DN10526_c0_g1_i1_1	642110	609240	675260	2338200	1712200	2095000	0	0	0	1882000	2189700	1365500
TRINITY_DN11588_c0_g1_i3_2	0	0	0	0	0	0	1503500	1462100	0	5460600	1544800	3522900
TRINITY_DN11110_c0_g3_i1_1	1275400	2392900	2321400	1534300	2137200	2392900	0	0	0	707980	581070	0
TRINITY_DN3777_c0_g1_i2_4	2195800	1410700	1131000	0	0	1010400	2050500	3623500	1684600	0	0	166090
TRINITY_DN17601_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	5072500	3814000	4382500
TRINITY_DN11006_c0_g1_i1_2	0	0	0	162260	0	0	351560	0	0	4380500	3541400	4766200
TRINITY_DN16803_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	5388200	3946100	3867400
TRINITY_DN22655_c0_g1_i1_2	146040	5491700	1457500	0	3469700	2621200	0	0	0	0	0	0
TRINITY_DN9863_c2_g1_i1_1	142740	617790	719060	695050	847500	770170	769170	737760	742790	2700400	2655200	1771800

TRINITY_DN7934_c0_g2_i1_1	1175200	1156100	1526100	1121400	589700	1586900	1369500	1565500	1774200	511320	347680	432610
TRINITY_DN11256_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	4963800	4124900	4009300
TRINITY_DN11403_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	4226900	3765300	5104300
TRINITY_DN11547_c0_g1_i4_3	0	0	0	0	0	0	0	0	0	5136600	4256100	3678500
TRINITY_DN8795_c0_g3_i1_4	0	0	0	0	0	0	0	1465200	4054800	3035800	1796600	2700200
TRINITY_DN5882_c0_g3_i2_3	0	0	0	0	0	0	0	0	3057000	4700200	3983600	1308900
TRINITY_DN6879_c0_g1_i2_2	388040	475290	489050	2279700	2409200	2432400	0	0	0	2138600	1022100	1413300
TRINITY_DN8601_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	6973600	6041700	0
TRINITY_DN11298_c0_g1_i2_4	133890	161340	519410	3154100	3108500	2267600	0	0	1635900	538530	1187600	288960
TRINITY_DN8357_c0_g1_i1_1	1189500	1328000	766850	725000	364940	515160	1224600	0	1822600	2222100	1649200	1051100
TRINITY_DN9107_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	0	6475900	6355100
TRINITY_DN11330_c0_g1_i3_6	0	0	0	0	0	0	0	0	0	1039500	6096800	5673300
TRINITY_DN10810_c0_g1_i4_1	2867500	2052100	3281200	1317000	1537200	1226100	0	0	0	237850	229490	0
TRINITY_DN8957_c0_g1_i1_1	0	0	0	0	0	0	0	0	12749000	0	0	0
TRINITY_DN8356_c0_g2_i1_1	723740	0	0	1087700	2852300	1253100	4066600	0	0	1078700	889560	789120
TRINITY_DN10807_c0_g1_i5_1	0	0	94753	0	0	0	0	0	0	5155600	4291700	3069200
TRINITY_DN11558_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	5913400	3073600	3550300
TRINITY_DN9852_c0_g1_i1_1	302740	319320	244140	0	365770	0	0	0	0	3306300	5157100	2821600
TRINITY_DN11418_c0_g2_i2_5	0	0	0	0	0	0	0	0	0	5696500	3165500	3546000
TRINITY_DN5567_c0_g1_i3_3	0	0	0	0	4201100	1682300	0	0	0	3220200	0	3297700
TRINITY_DN10055_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	6139700	3773700	2399900
TRINITY_DN8773_c0_g2_i2_4	0	0	0	136700	0	0	0	0	0	4633700	3618400	3915300
TRINITY_DN2809_c0_g1_i1_6	1491600	1178500	1379700	0	1560600	1688400	2573100	2424900	0	0	0	0
TRINITY_DN19230_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	4471500	4037600	3732700
TRINITY_DN11224_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	4114800	5534400	2555700
TRINITY_DN3638_c0_g1_i1_2	2516400	1980700	2373300	1128300	1950400	658740	0	0	0	898780	624960	0
TRINITY_DN11495_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	5620200	3970900	2535000
TRINITY_DN10903_c0_g1_i6_2	0	0	0	0	0	0	0	6229600	5880100	0	0	0
TRINITY_DN4170_c0_g3_i2_2	0	0	0	0	0	0	1542000	0	0	4079500	3603000	2804200
TRINITY_DN10453_c0_g2_i2_3	0	0	0	0	0	0	0	0	0	5360300	3430700	3228000
TRINITY_DN10548_c1_g1_i1_3	0	0	0	0	0	0	0	0	0	4154100	4471500	3367800
TRINITY_DN9786_c0_g1_i2_4	0	0	0	0	0	0	1376700	3144800	1816000	2243800	2025400	1361100
TRINITY_DN307_c0_g2_i1_6	0	0	0	0	0	0	3361700	3610600	4290000	230080	318600	134650

TRINITY_DN3566_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	3520000	4784900	3562400
TRINITY_DN6229_c0_g1_i1_2	248400	402940	293780	0	1455400	2457700	2718200	0	1869900	434840	1035700	895460
TRINITY_DN10335_c1_g2_i2_2	0	0	0	0	0	0	0	0	0	6267000	1929500	3614800
TRINITY_DN10820_c1_g1_i1_3	0	0	0	0	0	0	0	0	0	5085200	2459700	4244000
TRINITY_DN4435_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	4929300	3935600	2852300
TRINITY_DN9270_c0_g2_i2_2	0	0	0	0	0	0	0	0	0	6081400	2116400	3516200
TRINITY_DN9549_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	2930600	4402200	4338900
TRINITY_DN11397_c0_g1_i5_2	0	0	0	0	0	0	0	0	0	5933700	3347200	2379600
TRINITY_DN11446_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	4491600	4436700	2725900
TRINITY_DN11125_c0_g9_i1_3	0	0	0	0	0	0	0	0	0	4471100	3468300	3678200
TRINITY_DN7263_c1_g1_i1_1	703360	523020	565110	558350	259110	0	0	0	0	3956600	1947500	3071400
TRINITY_DN11387_c0_g1_i4_2	0	0	0	0	0	0	0	0	0	2353600	4133700	5050800
TRINITY_DN11199_c0_g5_i8_6	1974400	2744800	3082800	0	0	587840	0	0	0	1135100	1023500	973880
TRINITY_DN8461_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	5090200	3128400	3261600
TRINITY_DN3481_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	4759300	2537400	4121100
TRINITY_DN5908_c0_g1_i1_3	28054	20172	42057	0	0	0	0	0	0	5769300	4972600	579350
TRINITY_DN8185_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	4394900	3609300	3287300
TRINITY_DN4115_c0_g1_i1_2	923940	1130900	750030	1426800	1204900	611790	414950	1115800	529880	1422000	1095600	631420
TRINITY_DN5077_c0_g1_i1_1	0	0	0	0	0	0	0	454220	0	5204000	3306600	2274300
TRINITY_DN7999_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	2725200	6401900	2105100
TRINITY_DN12921_c0_g1_i1_3	0	0	0	0	0	0	11115000	0	0	0	0	0
TRINITY_DN2387_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	5452300	3827200	1826700
TRINITY_DN9350_c0_g2_i2_2	0	0	0	0	0	0	0	0	0	5827300	2695400	2578500
TRINITY_DN10819_c0_g1_i1_3	0	4062700	0	0	0	0	0	0	0	1583500	3990100	1416600
TRINITY_DN9863_c1_g1_i2_5	0	0	0	361270	0	0	1762800	1924900	2178300	1762800	1612900	1418800
TRINITY_DN9866_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	5055300	1329100	4633800
TRINITY_DN11562_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	4196100	2634600	4175900
TRINITY_DN11571_c4_g3_i1_2	81283	0	25544	0	0	0	0	0	0	4419300	3688300	2784400
TRINITY_DN9464_c0_g1_i4_3	0	0	0	0	0	0	0	0	0	3055700	3225400	4715900
TRINITY_DN8433_c1_g1_i2_6	0	0	0	0	175210	185340	0	0	0	3164700	2282300	5184000
TRINITY_DN10036_c0_g1_i3_6	0	0	0	0	0	0	493380	0	0	3897900	3274500	3317000
TRINITY_DN10785_c0_g1_i1_3	1632600	645720	1363800	1867500	1566400	2032600	0	0	0	846200	0	941070
TRINITY_DN4427_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	3309500	3705000	3854400

TRINITY_DN8833_c0_g1_i2_2	316070	429960	413090	410630	166790	0	0	0	0	2896500	3040800	3169200
TRINITY_DN10152_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	4774000	3585900	2450200
TRINITY_DN11018_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	3102900	5043100	2629300
TRINITY_DN8141_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	5310700	3978900	1482700
TRINITY_DN18656_c0_g1_i1_2	1400300	216190	40762	606410	665470	1346500	0	0	0	266140	3228500	2887000
TRINITY_DN9214_c0_g1_i3_1	102920	1472900	1059900	2066900	617200	658830	0	0	0	1869600	969450	1831100
TRINITY_DN5754_c0_g1_i1_1	1501700	1392300	1604600	1524600	1698700	1815500	129460	0	972390	0	0	0
TRINITY_DN4395_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	4963800	2859600	2808800
TRINITY_DN10088_c0_g2_i1_3	1233100	711090	784230	816820	1227300	956140	0	0	0	1928700	1402200	1549600
TRINITY_DN18481_c0_g2_i1_2	30601	0	81622	104890	0	0	0	1700800	1807600	3384100	2865700	622050
TRINITY_DN3240_c0_g1_i1_2	944000	878260	1108700	1077300	1790500	2025500	0	0	0	831810	1276100	632440
TRINITY_DN9575_c0_g1_i1_1	120700	135470	154810	327850	0	296240	569220	0	0	3907200	1989900	2998200
TRINITY_DN8266_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	4721400	2371400	3392200
TRINITY_DN3684_c0_g3_i1_2	0	0	0	0	0	0	0	0	0	4113400	3599700	2763800
TRINITY_DN27_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	4663600	2124500	3540900
TRINITY_DN14743_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	3518700	3029600	3754800
TRINITY_DN11580_c0_g1_i4_3	0	0	0	0	0	0	0	0	0	5163600	2010500	3120700
TRINITY_DN10635_c0_g1_i3_5	0	0	0	0	0	0	0	0	0	5187900	2050500	3024000
TRINITY_DN11567_c1_g2_i1_2	1950100	392380	553840	3141100	1841300	1506000	0	0	286490	254340	0	305440
TRINITY_DN11631_c0_g1_i3_2	0	0	0	0	0	0	0	0	0	4220500	2380000	3599200
TRINITY_DN1621_c0_g2_i2_2	0	0	0	0	0	0	0	0	0	3261200	3218700	3615000
TRINITY_DN8095_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	5123800	1026000	3931100
TRINITY_DN5554_c0_g2_i1_3	0	0	0	0	0	0	0	1170000	1555700	3801200	1476400	2019700
TRINITY_DN11457_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	3598500	3309200	3105400
TRINITY_DN6500_c0_g2_i1_1	768570	507920	599860	405660	409770	0	2448200	2474900	2393400	0	0	0
TRINITY_DN7157_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	7569300	1138400	1288800
TRINITY_DN9819_c1_g2_i1_2	0	0	0	0	0	0	0	0	0	3585900	4071100	2308200
TRINITY_DN11038_c0_g2_i1_2	956860	0	0	0	953650	738560	0	0	0	2309600	2399200	2598000
TRINITY_DN9121_c0_g1_i2_6	0	0	0	0	0	0	0	0	0	3294500	3027200	3597900
TRINITY_DN11575_c0_g1_i5_2	0	0	0	0	0	0	0	0	0	2310300	3835800	3768100
TRINITY_DN11451_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	4037900	3808500	2049500
TRINITY_DN11459_c1_g2_i1_2	0	0	0	0	0	0	0	0	0	5567100	4325400	0
TRINITY_DN9611_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	1271300	5685000	2908300

TRINITY_DN118_c0_g1_i1_3	0	0	0	0	0	0	1417900	3334600	5107200	0	0	0
TRINITY_DN7932_c0_g1_i8_5	0	0	0	0	0	0	0	0	0	3923800	2668300	3252200
TRINITY_DN9613_c0_g2_i2_4	523700	936780	1104200	1711000	2239100	0	1632800	1680000	0	0	0	0
TRINITY_DN7103_c0_g2_i2_2	0	0	0	0	0	0	0	0	0	3482400	4419700	1918500
TRINITY_DN11303_c0_g1_i1_1	751490	397040	0	938520	2617700	3603400	0	0	878570	0	540100	92267
TRINITY_DN10641_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	4182200	2269300	3354400
TRINITY_DN11410_c0_g1_i1_4	294910	0	304210	549380	556380	0	0	0	0	3096400	2432900	2562000
TRINITY_DN6205_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	2958200	1953800	4845900
TRINITY_DN11159_c1_g1_i8_5	0	0	0	0	0	0	0	0	0	4188000	1484000	4054800
TRINITY_DN9714_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	3403700	3098400	3218100
TRINITY_DN4382_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	4516300	2560200	2620200
TRINITY_DN11626_c0_g2_i1_5	246370	203300	137450	0	0	79947	0	0	0	2201200	3294300	3511700
TRINITY_DN9896_c0_g1_i5_1	0	0	430740	3394800	1990100	3539200	0	0	0	177830	140000	0
TRINITY_DN10351_c0_g1_i3_1	0	0	0	0	0	0	0	0	0	2743700	3646000	3274900
TRINITY_DN7143_c0_g1_i1_1	0	0	0	0	0	0	3921700	768730	4970600	0	0	0
TRINITY_DN11432_c0_g1_i1_6	495420	665060	285570	869350	899740	640980	0	0	0	3344700	2449100	0
TRINITY_DN9820_c0_g1_i3_3	75744	144470	125490	0	0	0	1926600	1654800	1957100	1627000	846570	1242200
TRINITY_DN10026_c0_g1_i1_5	74652	613180	843810	301810	0	480220	1021100	1250300	1713300	1308000	912850	1065900
TRINITY_DN11576_c1_g1_i1_2	0	2582500	2697200	1335100	1292100	0	0	0	1339700	0	149640	183570
TRINITY_DN18710_c0_g1_i1_2	1418800	2901500	2021300	1412100	1286500	536920	0	0	0	0	0	0
TRINITY_DN11480_c0_g1_i1_2	0	0	0	0	429820	270900	0	0	0	3417500	2132500	3324700
TRINITY_DN16427_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	2181900	5100200	2273900
TRINITY_DN21781_c0_g1_i1_6	247420	254460	0	548510	370780	515770	0	0	0	3152700	2314300	2131800
TRINITY_DN840_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	3256100	3234700	3008900
TRINITY_DN9473_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	3030100	3288200	3179400
TRINITY_DN11010_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	3521800	3157000	2811300
TRINITY_DN11411_c1_g1_i1_5	200400	125040	314720	1600900	1705300	1924000	0	0	0	1268500	1129800	1174100
TRINITY_DN13141_c0_g1_i1_2	0	0	0	0	837330	654890	0	2937700	3907700	447840	349600	306050
TRINITY_DN10770_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	2725100	4197700	2485300
TRINITY_DN1431_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	2396000	3813300	3149500
TRINITY_DN19678_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	2129500	5058100	2135500
TRINITY_DN249_c0_g2_i1_1	1073800	156130	826330	3202900	1594400	1917700	0	0	0	0	0	534790
TRINITY_DN17357_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	4342100	2189600	2764900

TRINITY_DN5130_c1_g1_i1_6	0	161970	0	0	0	0	0	0	0	4520900	3481300	1123200
TRINITY_DN10160_c0_g1_i3_6	0	0	0	0	0	0	0	0	0	3012700	3268200	2954900
TRINITY_DN5845_c0_g1_i3_2	0	0	0	0	0	0	0	0	0	2890300	3022200	3294400
TRINITY_DN8910_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	3084300	3237200	2862800
TRINITY_DN11500_c0_g1_i1_3	0	0	0	410380	0	0	0	0	0	4147300	2111300	2492700
TRINITY_DN11156_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	4717400	2259300	2152200
TRINITY_DN10981_c0_g2_i2_6	0	0	0	0	0	0	0	0	0	1950800	595510	6575800
TRINITY_DN10644_c0_g1_i1_2	39454	0	51986	0	0	0	0	0	0	4094500	2801200	2120200
TRINITY_DN21106_c0_g2_i1_1	4127000	783630	3287700	0	0	790450	0	0	0	0	0	118500
TRINITY_DN7447_c0_g1_i1_2	0	0	194640	1638100	464840	1425800	1316400	1739500	2295000	0	0	0
TRINITY_DN10179_c0_g2_i1_1	985210	1111800	911530	0	422010	0	0	0	0	2049600	1822000	1742500
TRINITY_DN10614_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	4869700	2311200	1855500
TRINITY_DN14470_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	2304900	3041900	3653000
TRINITY_DN5970_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	3507900	3192600	2294900
TRINITY_DN10916_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	4132200	2387500	2474700
TRINITY_DN9868_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	3923200	1607900	3456400
TRINITY_DN11613_c0_g1_i2_2	0	214720	270390	553620	728530	784880	0	0	5899200	523910	0	0
TRINITY_DN11620_c1_g1_i4_6	863030	1320900	1157300	1709300	1770000	908340	0	0	0	436460	370150	436270
TRINITY_DN17153_c0_g1_i1_1	1178000	1174700	1007400	299450	1119000	420860	1018900	1303700	1434100	0	0	0
TRINITY_DN8763_c0_g2_i1_1	0	436960	358710	291170	297580	252010	0	0	0	3248800	1878600	2156000
TRINITY_DN11270_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	2592100	3536200	2783400
TRINITY_DN3573_c0_g1_i1_2	0	45341	91126	147610	0	108200	0	0	0	3279800	2677300	2532900
TRINITY_DN7327_c0_g1_i2_5	0	0	0	0	0	0	0	0	0	3569900	1943900	3332000
TRINITY_DN6062_c0_g2_i3_1	525540	865140	1067000	1547000	2680700	1872400	0	0	0	144540	126890	0
TRINITY_DN5393_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	3430000	2640100	2751200
TRINITY_DN21568_c0_g1_i2_1	915300	1505200	1152500	0	467380	505270	0	0	0	1409600	1836800	998540
TRINITY_DN11022_c0_g1_i1_1	0	156350	156400	305790	0	985600	0	0	0	2287100	2283000	2581800
TRINITY_DN9756_c0_g1_i3_1	0	0	0	0	0	0	0	0	0	3417200	2888300	2440500
TRINITY_DN8806_c0_g1_i5_2	0	0	0	0	0	0	0	0	0	4216600	2114100	2401600
TRINITY_DN7109_c0_g1_i1_2	398010	375780	530510	1295300	1408200	1370700	990610	1044600	1139800	0	0	174050
TRINITY_DN3282_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	3885700	2606700	2233200
TRINITY_DN6144_c0_g1_i1_3	0	0	0	1192300	1868800	1149800	0	0	0	2570700	0	1943000
TRINITY_DN10924_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	3274600	1678500	3770500

TRINITY_DN8033_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	3595300	2922800	2199800
TRINITY_DN11083_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	3553900	2653400	2488000
TRINITY_DN9815_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1781200	2304400	4581300
TRINITY_DN9347_c0_g1_i1_1	0	0	0	0	0	0	0	0	601880	2726900	1582300	3749100
TRINITY_DN10872_c0_g1_i8_4	0	0	0	0	0	0	0	0	0	3516200	1759300	3364400
TRINITY_DN12354_c0_g1_i1_2	0	0	0	3225700	3173100	2205300	0	0	0	0	0	0
TRINITY_DN6584_c0_g2_i1_1	1998000	1749900	2193800	696090	822300	1142900	0	0	0	0	0	0
TRINITY_DN10462_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	3957000	1429700	3206700
TRINITY_DN9076_c0_g2_i1_2	224110	254970	211530	0	227470	0	0	0	0	4952800	2716900	0
TRINITY_DN527_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	3063000	2712100	2808700
TRINITY_DN19375_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	4817200	0	3752000
TRINITY_DN9641_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	3545900	3036900	1980300
TRINITY_DN22097_c0_g1_i1_5	276770	293360	391090	1449400	1340400	1558700	0	0	0	1400800	905570	946960
TRINITY_DN12939_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	3042800	2501100	3009500
TRINITY_DN12440_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	4049200	522130	3969900
TRINITY_DN21623_c0_g1_i1_1	0	0	36739	2634200	2779700	2101000	0	0	0	496310	476730	0
TRINITY_DN10464_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	2971200	3091000	2457700
TRINITY_DN9302_c0_g1_i1_2	188510	225780	348040	0	0	249290	0	0	0	3409600	1553400	2539100
TRINITY_DN1467_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	3139100	2050500	3319800
TRINITY_DN10869_c1_g3_i1_5	956750	916260	713720	1693700	2394500	1721800	0	0	0	0	106450	0
TRINITY_DN11008_c0_g1_i3_3	0	0	0	0	0	0	0	0	0	3396000	1880000	3202900
TRINITY_DN5035_c0_g1_i1_1	739470	1152300	754530	1974200	2127100	927880	445420	0	0	145980	190190	0
TRINITY_DN11340_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	2871900	2923800	2602700
TRINITY_DN10734_c1_g1_i1_1	0	0	0	0	0	0	0	0	0	1962800	2664400	3754100
TRINITY_DN10680_c4_g1_i3_4	1276000	1563900	1193800	0	0	4319800	0	0	0	0	0	0
TRINITY_DN11420_c0_g1_i4_2	0	0	0	0	0	0	0	0	0	3822100	2531000	2000300
TRINITY_DN1806_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	2735200	2374600	3241000
TRINITY_DN9463_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	3868600	1435500	2998900
TRINITY_DN2883_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	5030200	2232800	1030000
TRINITY_DN11614_c0_g1_i5_1	0	0	0	0	0	0	0	0	0	3284100	2329400	2652000
TRINITY_DN8774_c0_g2_i2_6	0	246870	273030	340490	0	0	0	0	0	1760800	3634800	1985300
TRINITY_DN9582_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	4898500	1304700	2020500
TRINITY_DN8902_c0_g1_i2_5	560890	862990	1343000	324730	1489600	607180	0	526550	2209200	112940	81218	98675

TRINITY_DN11545_c0_g1_i3_2	1642700	2041900	2143600	663200	651650	186300	0	0	0	401660	258530	226040
TRINITY_DN11179_c0_g1_i4_3	0	0	0	0	0	0	0	0	0	2807400	3442500	1962900
TRINITY_DN10263_c1_g1_i2_1	1106900	1647000	1096000	0	1136100	0	3195000	0	0	0	0	0
TRINITY_DN9576_c0_g1_i2_5	0	0	0	0	0	0	0	0	0	3499000	2037500	2620100
TRINITY_DN7960_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	3397500	2314500	2435100
TRINITY_DN5577_c0_g1_i1_5	1094500	1305100	1426500	1375400	1530800	1412000	0	0	0	0	0	0
TRINITY_DN4472_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	5112900	3028700	0
TRINITY_DN10370_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	3397500	2867900	1846000
TRINITY_DN8106_c0_g1_i1_5	0	0	0	0	141140	0	323540	3685600	3954000	0	0	0
TRINITY_DN11090_c0_g2_i6_4	0	0	0	0	0	0	0	0	0	3307800	0	4771400
TRINITY_DN10461_c0_g1_i3_3	0	0	0	0	0	0	0	0	0	2990600	3048600	2031200
TRINITY_DN579_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	8063900
TRINITY_DN14915_c0_g1_i1_3	0	0	0	0	0	0	0	5024700	3037900	0	0	0
TRINITY_DN11178_c0_g1_i2_1	0	86700	0	635010	620730	514070	1256200	1346300	1471800	839370	631990	650350
TRINITY_DN8448_c0_g1_i1_1	132690	179330	142040	0	0	0	562850	0	568120	1995900	2227000	2220200
TRINITY_DN11626_c0_g1_i4_5	0	0	0	0	0	0	0	0	0	3259800	2582000	2169900
TRINITY_DN6292_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	2483200	3722900	1748500
TRINITY_DN5457_c0_g1_i1_3	192290	162760	122130	484360	387450	662310	0	2850900	3092100	0	0	0
TRINITY_DN6422_c0_g1_i1_2	747000	392600	517540	171790	146190	304070	0	0	0	3373600	1327400	948880
TRINITY_DN7995_c0_g2_i1_1	458430	521870	822840	129080	0	119970	352180	2452800	1492000	609970	515890	452830
TRINITY_DN8330_c0_g1_i1_3	120730	127020	169590	0	836370	647980	0	0	0	0	6020500	0
TRINITY_DN10167_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	3570000	2438800	1908000
TRINITY_DN9776_c0_g1_i4_2	0	0	0	0	0	0	0	0	0	3499700	2174700	2183000
TRINITY_DN11503_c0_g1_i1_1	1255000	1002200	1999300	552300	596800	1101600	0	0	0	963220	363320	0
TRINITY_DN11383_c0_g1_i3_1	74278	31195	270550	0	0	1429800	0	0	0	2306000	2077400	1639000
TRINITY_DN10659_c0_g1_i3_2	274840	381700	0	201450	332490	0	0	0	0	2983200	1924500	1718000
TRINITY_DN10371_c0_g1_i1_2	0	0	0	83502	76586	0	0	0	0	3241400	2652600	1724600
TRINITY_DN6420_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	2470800	1720500	3586300
TRINITY_DN10875_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	3472400	2771500	1510000
TRINITY_DN9826_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	2791300	2201100	2708000
TRINITY_DN8975_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	3477500	1557800	2650400
TRINITY_DN8607_c0_g1_i2_1	0	0	0	0	0	0	3714500	3962600	0	0	0	0
TRINITY_DN11635_c2_g1_i9_3	0	0	0	0	230110	0	2510100	2434700	2488400	0	0	0

TRINITY_DN17821_c0_g1_i1_3	0	0	0	0	0	0	0	0	7661400	0	0	0
TRINITY_DN3258_c0_g1_i1_2	2024700	798390	902890	341610	440980	299660	0	0	0	634300	988860	1204500
TRINITY_DN10762_c0_g1_i1_1	2760100	655800	540660	0	1594100	222350	0	0	0	623100	492630	725110
TRINITY_DN10328_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	1723600	1746700	4136000
TRINITY_DN11289_c0_g2_i2_2	0	0	0	0	0	0	0	0	0	2544800	2079500	2975100
TRINITY_DN4969_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	2303900	3061700	2225700
TRINITY_DN12289_c0_g1_i1_5	1021000	894870	677450	438190	478100	180640	0	0	0	2237400	959300	703050
TRINITY_DN11225_c0_g1_i1_3	2209800	1115200	1643000	0	1020700	861510	0	0	0	274780	227280	231610
TRINITY_DN20631_c0_g1_i1_5	1513600	48366	84827	2166400	903660	918420	857070	0	1087900	0	0	0
TRINITY_DN15095_c0_g1_i1_4	305890	430000	707520	1122000	1362800	1247600	0	0	0	913450	1229100	254860
TRINITY_DN10798_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	3597400	1694200	2260400
TRINITY_DN17510_c0_g1_i1_2	1048900	1670700	1596400	502290	1029700	785270	0	0	541120	0	200370	143240
TRINITY_DN6021_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	2681900	2307400	2456300
TRINITY_DN9758_c0_g1_i1_3	0	0	0	0	0	0	3330400	0	4073000	0	0	0
TRINITY_DN2208_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	2211000	3319600	1857500
TRINITY_DN11722_c0_g1_i1_5	475580	302550	426890	395550	1600500	1232200	0	0	0	1093400	957850	898280
TRINITY_DN17467_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	3265500	1513500	2600100
TRINITY_DN3823_c0_g1_i1_6	401930	482430	819590	790390	877510	749990	1324300	1075100	0	269720	204210	372580
TRINITY_DN11535_c0_g1_i2_3	0	0	0	0	0	0	325240	0	0	2072000	3788600	1179100
TRINITY_DN8730_c1_g1_i1_2	505790	374620	681970	798700	290040	504310	0	0	0	1172700	1707700	1326900
TRINITY_DN2631_c0_g3_i1_2	0	0	0	0	0	0	0	0	0	3951800	551220	2849100
TRINITY_DN9280_c0_g2_i4_2	0	0	0	0	0	0	0	0	0	3741800	1628800	1969500
TRINITY_DN5611_c0_g4_i1_3	0	0	0	0	0	0	0	0	0	3195900	2616800	1523500
TRINITY_DN4378_c0_g1_i2_2	131240	0	75430	0	0	0	0	0	0	3357600	2647500	1040400
TRINITY_DN4596_c0_g1_i1_5	632800	683730	610690	0	673670	0	0	4480800	0	0	143560	0
TRINITY_DN11195_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	3076700	1951500	2188800
TRINITY_DN4293_c0_g1_i1_4	1412900	834010	1126400	475670	1798000	267790	0	0	0	645220	78068	561390
TRINITY_DN8155_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	2780300	2229900	2187300
TRINITY_DN9942_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	2684500	2560600	1946700
TRINITY_DN11521_c0_g1_i3_1	0	0	0	0	0	0	0	0	0	3162000	1756000	2257500
TRINITY_DN10407_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	3007500	951710	3214600
TRINITY_DN11080_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1885200	1840800	3434400
TRINITY_DN12642_c0_g1_i1_3	268920	625250	847710	1549600	1701900	1579900	0	0	0	470650	113040	0

TRINITY_DN10964_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	2908900	1886500	2338800
TRINITY_DN11121_c0_g1_i1_6	159160	0	203740	1184400	0	0	0	0	0	2962700	1309400	1314000
TRINITY_DN8201_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	2486600	3006500	1629200
TRINITY_DN2407_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	3310900	3420900	383590
TRINITY_DN18360_c0_g1_i1_1	422080	0	469520	2227400	1657500	1923200	0	0	0	410840	0	0
TRINITY_DN7023_c0_g1_i2_1	554730	792080	1320300	909400	2022500	813530	0	0	0	253360	196660	233390
TRINITY_DN10334_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	2775800	2561900	1751400
TRINITY_DN3765_c0_g1_i1_1	1641200	1566500	1354400	0	962700	659530	0	0	0	0	462550	429710
TRINITY_DN6855_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	2884900	2175500	1976900
TRINITY_DN9376_c1_g3_i1_4	0	0	0	0	0	0	0	7035600	0	0	0	0
TRINITY_DN13181_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	3093300	2387100	1525300
TRINITY_DN6915_c0_g2_i2_2	524560	0	155080	3021400	2793200	142820	355420	0	0	0	0	0
TRINITY_DN8184_c1_g1_i1_1	0	183410	107420	216840	377480	181180	878810	1579800	1036600	1439300	653280	335670
TRINITY_DN19070_c0_g1_i1_2	131010	152170	132250	1200700	1420800	978950	1125900	910180	936400	0	0	0
TRINITY_DN20708_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	2370700	2713500	1834900
TRINITY_DN11287_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	2601800	2332100	1983000
TRINITY_DN9456_c0_g1_i4_3	243840	91431	69757	2062600	1411200	1348400	0	815420	872290	0	0	0
TRINITY_DN8791_c0_g1_i1_3	182290	217860	323070	0	0	0	0	0	874060	2489800	1731700	1080400
TRINITY_DN4375_c0_g3_i1_3	0	0	0	0	0	0	0	0	0	2956100	999370	2941300
TRINITY_DN10343_c0_g1_i4_1	0	0	0	0	0	0	0	0	0	2434700	1929000	2525100
TRINITY_DN18958_c0_g1_i1_3	0	0	0	0	0	0	0	0	6870500	0	0	0
TRINITY_DN4412_c0_g1_i1_3	326580	682720	591750	0	177120	0	0	0	0	1947500	1753100	1387300
TRINITY_DN3095_c0_g1_i2_2	1179800	127150	163580	452210	679710	450080	1090700	1370700	0	588880	752730	0
TRINITY_DN10358_c0_g1_i1_1	0	0	0	538250	348260	292050	0	0	0	1947600	2326000	1382000
TRINITY_DN16061_c0_g1_i1_3	200000	178980	433260	92303	908110	684920	0	0	0	1601900	1471800	1232100
TRINITY_DN5302_c0_g1_i1_6	3100400	1631000	424680	468610	358200	680480	0	0	0	125560	0	0
TRINITY_DN11246_c1_g4_i2_1	0	0	0	0	0	0	0	0	0	2464200	2334400	1989600
TRINITY_DN19132_c0_g1_i1_5	0	0	0	0	0	0	0	0	6781800	0	0	0
TRINITY_DN9764_c0_g1_i1_3	0	0	0	0	0	0	507250	0	0	2177800	2315800	1758000
TRINITY_DN7237_c0_g2_i1_3	1530000	1545800	1541600	898980	0	895900	0	0	0	175090	171250	0
TRINITY_DN11279_c0_g2_i3_5	0	86671	0	585070	623140	70265	0	0	302840	2134800	1952100	990250
TRINITY_DN10730_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	3057900	1011600	2671400
TRINITY_DN11396_c1_g1_i3_2	0	0	0	0	0	0	0	0	0	0	0	6735900

TRINITY_DN10977_c0_g1_i1_6	0	0	0	0	0	0	1415500	0	1922900	873170	1471200	1031700
TRINITY_DN9743_c0_g2_i2_1	0	0	0	0	0	0	0	0	0	2977300	1726900	1995100
TRINITY_DN10127_c0_g1_i2_5	0	0	0	0	0	0	0	0	0	2815700	2191000	1677300
TRINITY_DN10738_c0_g1_i2_5	0	0	0	0	0	0	0	0	0	2545100	1988400	2140700
TRINITY_DN6947_c0_g1_i5_4	0	0	0	0	0	0	0	0	0	2569500	2268200	1808400
TRINITY_DN4336_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	2746500	2070600	1804300
TRINITY_DN11277_c0_g1_i2_2	0	116860	0	0	0	0	0	0	0	3497900	1268600	1733200
TRINITY_DN3905_c0_g2_i2_3	0	0	0	0	60973	0	0	0	0	2642200	1979000	1929800
TRINITY_DN5130_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	2640600	872640	3098100
TRINITY_DN21282_c0_g1_i1_3	466770	34346	225340	1544700	261240	539510	0	0	0	2629200	0	878770
TRINITY_DN7375_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1844200	1814900	2887100
TRINITY_DN10410_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	2768200	1656800	2116600
TRINITY_DN10668_c0_g1_i2_2	192810	214420	305620	1407800	1463300	1124300	0	0	0	1116100	0	699400
TRINITY_DN1129_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	2090400	3274200	1157000
TRINITY_DN9363_c0_g1_i2_2	0	0	0	0	76146	0	0	0	0	3339700	1236400	1865800
TRINITY_DN8678_c0_g3_i5_1	1006200	0	0	0	1441900	0	254300	2401000	0	0	693590	706420
TRINITY_DN9856_c0_g1_i2_6	0	0	43852	0	0	0	0	0	0	2141800	2010300	2304900
TRINITY_DN16281_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	2800500	1604000	2090100
TRINITY_DN8090_c1_g1_i1_6	0	0	0	0	109490	64578	450500	1484900	1043900	1404600	823350	1098600
TRINITY_DN18348_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	2873700	1418400	2182500
TRINITY_DN11641_c0_g1_i5_1	0	0	0	0	0	0	0	0	0	6454800	0	0
TRINITY_DN13961_c0_g1_i1_1	1378500	741510	4292400	0	0	0	0	0	0	0	0	0
TRINITY_DN1808_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	2686500	1823800	1901600
TRINITY_DN10282_c0_g1_i6_1	0	0	0	394820	407090	306700	0	0	1203700	1312900	1465700	1307100
TRINITY_DN11194_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1569100	2071600	2753900
TRINITY_DN4777_c0_g2_i2_3	0	0	0	0	0	0	0	0	0	3517300	1142700	1734500
TRINITY_DN11197_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	4287100	1043400	1046100
TRINITY_DN1802_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	1992600	1625700	2757300
TRINITY_DN10578_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	2641200	1387000	2329900
TRINITY_DN17430_c0_g1_i1_5	632980	639190	859840	2127700	1353700	0	0	0	0	0	735620	0
TRINITY_DN9138_c0_g1_i1_4	1128600	1055800	821170	0	0	1476900	230790	1240900	0	216980	0	172360
TRINITY_DN10772_c1_g1_i1_2	0	0	0	0	0	0	0	0	0	2645200	1685600	1969900
TRINITY_DN11439_c0_g1_i2_4	0	0	0	0	0	0	0	0	0	2884200	1735200	1676100

TRINITY_DN7730_c0_g1_i3_4	0	0	0	0	0	0	0	0	0	2732200	1703900	1858000
TRINITY_DN10562_c0_g1_i5_3	0	0	0	0	0	0	0	0	0	3149600	1336000	1807900
TRINITY_DN8163_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1893900	1399900	2989200
TRINITY_DN10420_c0_g1_i3_2	0	0	0	0	0	0	0	0	0	2337500	1512900	2418100
TRINITY_DN10122_c0_g1_i1_3	2230000	0	135320	1343300	918190	478200	0	0	0	699940	202580	236100
TRINITY_DN7204_c0_g1_i1_1	297820	343090	476730	1561600	1867800	1690200	0	0	0	0	0	0
TRINITY_DN11311_c0_g1_i2_2	946700	1139600	1188200	508740	1158200	709180	0	0	0	327390	0	251870
TRINITY_DN11251_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	3046100	1421100	1754600
TRINITY_DN2678_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	2849900	2263600	1104400
TRINITY_DN9042_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	3259900	2016400	934430
TRINITY_DN134_c0_g1_i3_5	763160	747050	779160	1256100	951790	1608300	0	0	0	0	0	101940
TRINITY_DN7354_c1_g1_i1_2	0	1518700	1547000	821260	1641500	672750	0	0	0	0	0	0
TRINITY_DN7673_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1084100	1698900	3396500
TRINITY_DN5029_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	2153100	1993100	2016500
TRINITY_DN4009_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	2889100	1685600	1584300
TRINITY_DN4424_c0_g1_i3_3	0	0	0	0	0	0	0	0	0	3271300	1006700	1880100
TRINITY_DN17664_c0_g2_i1_3	832170	401280	805700	1422400	846910	847330	0	0	0	320350	238940	426430
TRINITY_DN7316_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	2764200	1452000	1916600
TRINITY_DN9014_c0_g1_i1_3	0	0	0	249350	392870	175130	0	0	0	1906900	1766200	1640100
TRINITY_DN17081_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	2210700	2006300	1904500
TRINITY_DN7215_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	3092400	141720	2881400
TRINITY_DN11034_c0_g1_i3_3	0	0	1794500	0	2143800	0	0	0	0	819870	702840	639980
TRINITY_DN21713_c0_g1_i1_2	463650	234160	314070	1153300	1338100	1148500	0	0	0	517710	538610	390910
TRINITY_DN7461_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	2154000	2104100	1836400
TRINITY_DN10238_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	3586800	919120	1569700
TRINITY_DN2462_c0_g2_i1_2	838570	47105	585610	0	0	708800	1774800	1657400	0	0	0	424380
TRINITY_DN16740_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	2500100	2269800	1261000
TRINITY_DN7713_c0_g1_i1_6	119550	0	190890	1885700	1938800	1834100	0	0	0	0	0	0
TRINITY_DN7723_c0_g1_i2_2	151810	172980	120750	0	183010	0	2017000	1112800	0	827740	514030	867010
TRINITY_DN10456_c0_g1_i4_1	831240	458050	894370	454640	0	392570	0	951040	1212100	620140	0	140910
TRINITY_DN10811_c0_g1_i1_2	138220	179650	380870	0	1402700	0	0	0	0	1808700	2027300	0
TRINITY_DN10241_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	1902700	2642900	1388700
TRINITY_DN10843_c0_g2_i2_2	0	0	0	0	0	0	0	0	0	3498500	782450	1613300

TRINITY_DN888_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	2729500	1475500	1687600
TRINITY_DN9357_c0_g1_i1_4	0	0	5881100	0	0	0	0	0	0	0	0	0
TRINITY_DN10551_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	3535600	1270800	1058900
TRINITY_DN9412_c0_g1_i1_2	0	313200	273910	286050	158940	0	0	0	0	1742200	2411500	676020
TRINITY_DN14016_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	2359900	2077400	1418900
TRINITY_DN5499_c0_g1_i1_3	24337	0	0	0	249000	308030	0	0	0	2378900	1280700	1570300
TRINITY_DN10701_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	2260700	1695800	1835900
TRINITY_DN5059_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	1717100	1408900	2664200
TRINITY_DN6933_c0_g1_i1_2	120140	186630	169460	0	0	125580	231920	0	0	1767100	1588100	1589600
TRINITY_DN10774_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	3259800	1449500	1069200
TRINITY_DN10849_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	0	5762000	0
TRINITY_DN10042_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	3366200	1520100	868450
TRINITY_DN8175_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1963500	2049700	1714300
TRINITY_DN11149_c0_g1_i1_3	472720	721340	746930	254740	295250	532430	408060	0	0	1095000	653430	543580
TRINITY_DN14909_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	3007800	1752400	961480
TRINITY_DN6906_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	2106100	2262500	1314800
TRINITY_DN4515_c0_g2_i1_2	485420	556410	945410	980610	834760	1550000	0	0	0	0	0	306710
TRINITY_DN11230_c0_g2_i7_6	0	0	0	0	0	0	0	0	0	3176700	0	2481300
TRINITY_DN19409_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1341700	3042700	1247700
TRINITY_DN10897_c0_g1_i1_1	932860	602370	667040	384870	827050	977590	0	0	0	421070	433700	376190
TRINITY_DN7208_c0_g1_i1_2	0	0	0	0	0	0	1052300	1302300	3260300	0	0	0
TRINITY_DN7184_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	3070500	2530900	0
TRINITY_DN6124_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	2056700	2082200	1455200
TRINITY_DN17685_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	2094500	1817400	1664600
TRINITY_DN10323_c0_g3_i1_1	0	0	0	0	0	0	0	0	0	2095500	2370800	1087800
TRINITY_DN9450_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	2692700	808590	2052400
TRINITY_DN11814_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	2910000	1389100	1251000
TRINITY_DN22082_c0_g1_i1_3	51394	72232	78425	0	0	0	0	0	2217200	1680400	1387200	0
TRINITY_DN7979_c0_g1_i2_2	3381000	0	120280	169980	0	1784700	0	0	0	0	0	0
TRINITY_DN1283_c0_g1_i1_3	0	0	0	1818200	1984200	1643100	0	0	0	0	0	0
TRINITY_DN9248_c0_g1_i2_3	0	340000	312140	0	521680	0	0	0	0	2507300	887230	870720
TRINITY_DN10710_c2_g1_i2_2	45450	93857	69022	210830	881340	482460	0	0	392410	1690600	950340	617410
TRINITY_DN5831_c1_g1_i1_5	0	0	0	0	0	0	0	0	0	1253700	2284400	1895300

TRINITY_DN8425_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	2163200	1631600	1610600
TRINITY_DN1080_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	2167800	1317000	1889000
TRINITY_DN10249_c0_g1_i1_1	445880	389910	617430	372240	369020	315470	0	1182100	1335400	191270	140790	0
TRINITY_DN2941_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1720000	2535300	1101200
TRINITY_DN17262_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	2721400	1870400	761880
TRINITY_DN6331_c0_g1_i2_6	0	0	0	0	131960	90690	0	0	0	2138700	1249900	1738700
TRINITY_DN9436_c0_g1_i2_2	0	0	0	0	324390	0	0	324150	0	1909600	1542900	1246600
TRINITY_DN11363_c0_g2_i3_3	0	0	0	0	0	0	0	0	0	2524800	1701300	1117700
TRINITY_DN16910_c0_g1_i1_4	315310	343370	471710	1507400	1392700	1307400	0	0	0	0	0	0
TRINITY_DN791_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	3092800	903970	1339600
TRINITY_DN12144_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	2787500	968570	1571400
TRINITY_DN3683_c0_g2_i2_1	0	0	35562	0	0	0	0	0	0	1387800	1999200	1901600
TRINITY_DN10116_c1_g2_i1_2	0	0	0	0	0	0	0	0	0	2651200	1815400	857400
TRINITY_DN4525_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1283500	2542000	1467300
TRINITY_DN5136_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1620000	2430200	1221500
TRINITY_DN7885_c0_g1_i8_1	0	0	0	0	0	0	0	0	0	2399100	1305500	1549900
TRINITY_DN6908_c0_g1_i1_6	63119	0	58708	228930	339170	239480	0	1161700	0	1035700	626000	1497500
TRINITY_DN6313_c0_g1_i1_1	0	0	0	288060	219340	607960	1379600	0	927190	1021800	0	798450
TRINITY_DN8703_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1804900	1717500	1715900
TRINITY_DN8590_c0_g1_i1_2	0	0	0	0	0	0	1254900	2691100	1290500	0	0	0
TRINITY_DN8759_c0_g1_i1_1	0	0	0	208160	0	0	0	0	0	1568900	1778600	1678200
TRINITY_DN6356_c0_g1_i1_3	75439	110120	0	391410	369820	0	0	0	0	1612700	1474300	1184600
TRINITY_DN9997_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	2433100	2019200	757190
TRINITY_DN10922_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	2247300	1640500	1290100
TRINITY_DN18757_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1363000	2286600	1522400
TRINITY_DN11571_c4_g3_i5_2	147250	0	0	0	0	0	0	0	0	2113500	1714200	1161200
TRINITY_DN7455_c0_g1_i3_2	0	0	0	0	0	0	0	0	0	2261800	1407800	1459900
TRINITY_DN7736_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	1820400	1643900	1660100
TRINITY_DN6430_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	3384800	728560	1004400
TRINITY_DN11913_c0_g1_i1_2	609780	532300	1446100	773750	870030	676310	0	0	0	202770	0	0
TRINITY_DN11663_c2_g1_i1_3	0	0	0	0	0	0	0	0	0	1891400	1121000	2085300
TRINITY_DN5983_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1707300	1315400	2073000
TRINITY_DN8699_c1_g1_i2_2	0	0	0	0	0	0	0	0	0	5078500	0	0

TRINITY_DN6592_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	2157000	1156600	1760200
TRINITY_DN10388_c0_g2_i6_4	0	0	0	0	0	0	2463400	0	0	1056000	942510	611260
TRINITY_DN11021_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1913300	1768500	1383200
TRINITY_DN3815_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	2204700	1924300	922670
TRINITY_DN10218_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	943330	2828500	1277900
TRINITY_DN6921_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	2209300	1899800	919030
TRINITY_DN8720_c0_g1_i1_2	0	0	28226	0	421490	0	0	0	0	2141400	876930	1559700
TRINITY_DN8463_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	1374600	1917500	1728300
TRINITY_DN9325_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	2150200	1596600	1264400
TRINITY_DN10162_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	1514100	1258400	2233000
TRINITY_DN9738_c1_g1_i1_3	552720	0	0	611540	603130	0	0	0	0	1206400	1075000	955430
TRINITY_DN10335_c0_g1_i1_1	0	0	0	0	218500	174770	0	0	0	2182800	2426300	0
TRINITY_DN4334_c0_g1_i1_3	1670400	289430	699370	0	731550	0	0	0	0	716990	258500	631740
TRINITY_DN11667_c0_g1_i5_1	0	0	0	0	0	0	0	0	0	1825600	1657700	1514200
TRINITY_DN21463_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	1212700	2332300	1445800
TRINITY_DN9495_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1993500	1518500	1468300
TRINITY_DN8648_c0_g1_i4_3	0	0	0	0	0	0	0	0	0	991130	1502400	2467100
TRINITY_DN20196_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1998900	1280400	1677100
TRINITY_DN369_c0_g2_i1_2	474110	434430	536140	792230	858970	387650	0	0	0	200720	527890	740020
TRINITY_DN4975_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	1380900	1878600	1692400
TRINITY_DN10898_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	3564300	0	1379200
TRINITY_DN19644_c0_g1_i1_6	0	0	0	0	0	0	1205900	1860900	1876000	0	0	0
TRINITY_DN10905_c1_g1_i1_1	53887	63738	0	0	228180	0	0	0	0	2074000	2002000	510290
TRINITY_DN11102_c1_g1_i1_1	0	0	0	0	0	0	0	2652500	2274600	0	0	0
TRINITY_DN8311_c0_g1_i1_6	939620	792790	1264200	484870	417790	0	0	0	0	344430	293850	386800
TRINITY_DN8932_c0_g2_i2_2	0	0	0	0	0	0	0	0	0	2184800	1917600	818590
TRINITY_DN7024_c0_g1_i1_2	372300	580700	490420	181830	0	475800	0	0	0	537810	781750	1495300
TRINITY_DN5823_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1402300	2370500	1142200
TRINITY_DN7700_c0_g1_i1_1	0	0	0	0	0	148990	2156700	2600300	0	0	0	0
TRINITY_DN5993_c0_g2_i1_6	0	560990	164390	640820	643110	534840	944430	863240	0	216890	190860	144800
TRINITY_DN9585_c0_g1_i1_2	50778	0	0	670970	254030	64426	330430	0	0	1087000	1470600	975720
TRINITY_DN10250_c0_g1_i1_4	1252200	1391100	1593500	279470	374810	0	0	0	0	0	0	0
TRINITY_DN11946_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	1895100	2521300	433890

TRINITY_DN6080_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	2153200	1206600	1437700
TRINITY_DN7401_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	2238000	1334200	1219800
TRINITY_DN2864_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	2182500	1062000	1534200
TRINITY_DN9953_c0_g1_i1_3	159740	343750	286780	0	0	0	0	0	0	1986800	1040400	950550
TRINITY_DN4450_c0_g2_i1_2	1165300	1526900	1339800	0	0	0	0	0	0	0	721430	0
TRINITY_DN18876_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	1613900	1594600	1540400
TRINITY_DN10281_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1673500	1647400	1419300
TRINITY_DN7840_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1586000	1271400	1871500
TRINITY_DN8316_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	2000400	1218500	1504500
TRINITY_DN15493_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	2253400	1722900	743840
TRINITY_DN8497_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1987900	1397200	1333400
TRINITY_DN9872_c0_g1_i2_5	0	0	0	0	0	0	0	0	0	2570800	0	2113700
TRINITY_DN5492_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	1984800	1655100	1036400
TRINITY_DN10815_c0_g2_i1_3	576780	614040	912950	1002700	647820	511830	0	0	0	185940	218270	0
TRINITY_DN9629_c0_g1_i1_1	468720	461010	885150	487850	1039400	886730	0	0	0	237770	197810	0
TRINITY_DN9337_c0_g1_i3_1	0	0	0	0	0	0	0	0	0	1473200	2024900	1154300
TRINITY_DN2350_c0_g1_i1_3	0	0	109610	0	2455700	1320500	0	0	746070	0	0	0
TRINITY_DN4704_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1666900	1619600	1334600
TRINITY_DN10796_c0_g1_i2_5	0	0	0	0	0	0	0	0	0	1789500	1212200	1610800
TRINITY_DN9670_c0_g1_i1_4	0	0	0	0	0	0	1293100	0	3307700	0	0	0
TRINITY_DN2761_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	1654500	1487400	1444400
TRINITY_DN7182_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	913650	496020	3175800
TRINITY_DN11525_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	2716000	922810	940880
TRINITY_DN4779_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	1672700	1712800	1184100
TRINITY_DN11487_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	1683800	1534800	1343200
TRINITY_DN11353_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	1926300	955170	1671200
TRINITY_DN4833_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1892600	909450	1748900
TRINITY_DN7188_c0_g2_i3_2	0	0	0	0	0	0	0	0	0	1581500	1497800	1462300
TRINITY_DN10558_c0_g1_i2_4	0	0	0	0	0	0	0	0	0	2597600	803210	1123100
TRINITY_DN10992_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1431900	1797100	1279500
TRINITY_DN23494_c0_g1_i1_6	441160	507820	0	542660	682540	452270	0	0	0	913100	824330	142830
TRINITY_DN6209_c0_g1_i3_2	0	0	0	0	0	0	0	0	0	1236300	1036200	2231000
TRINITY_DN1928_c0_g1_i2_3	2054100	0	1953700	163620	156090	158160	0	0	0	0	0	0

TRINITY_DN22312_c0_g1_i1_4	0	0	21293	950180	584620	1328700	0	0	806630	423500	361890	0
TRINITY_DN137_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1558800	1501900	1409700
TRINITY_DN7231_c0_g1_i1_1	869330	747340	823860	673300	707810	642820	0	0	0	0	0	0
TRINITY_DN8793_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	1686400	1379900	1396200
TRINITY_DN16084_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	1801900	2652400
TRINITY_DN10831_c0_g1_i1_3	533340	417290	398220	1003300	791060	752110	0	0	0	558340	0	0
TRINITY_DN15011_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	2283900	1386100	782300
TRINITY_DN11284_c0_g2_i1_3	0	127450	377330	827040	930110	408350	0	0	0	1113500	666400	0
TRINITY_DN18948_c1_g1_i1_2	0	0	0	0	0	0	0	0	0	1731600	1355300	1351000
TRINITY_DN11157_c0_g2_i3_3	0	0	0	0	0	0	0	0	0	1065500	1616300	1749800
TRINITY_DN2503_c0_g2_i1_1	0	99218	151690	606710	690360	578840	0	0	0	696560	1058600	543740
TRINITY_DN22430_c0_g1_i1_3	738460	0	0	0	0	722570	845250	981120	930090	202190	0	0
TRINITY_DN9526_c1_g1_i1_2	0	0	0	0	0	0	0	0	0	1332800	2065200	1020200
TRINITY_DN11455_c0_g1_i6_2	0	0	0	0	0	0	0	0	0	1618600	1406000	1391000
TRINITY_DN10158_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	240960	2533600	1634400
TRINITY_DN3458_c0_g1_i1_4	0	0	0	1865600	1343700	1197400	0	0	0	0	0	0
TRINITY_DN11286_c0_g1_i3_2	0	0	0	0	0	0	0	0	0	1504000	1516800	1382500
TRINITY_DN5958_c0_g2_i1_1	0	0	0	543670	622120	0	0	0	0	1286500	1115700	829890
TRINITY_DN9297_c0_g3_i2_1	0	0	0	0	192560	0	0	0	0	908440	1796100	1499400
TRINITY_DN5161_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	2032400	1127400	1234700
TRINITY_DN11263_c0_g1_i1_3	0	0	0	0	188060	0	415060	0	0	2425300	751400	603870
TRINITY_DN2170_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	1612300	1452000	1319000
TRINITY_DN8027_c0_g1_i1_1	0	0	0	885320	216910	929680	772620	254540	377270	379540	167700	377820
TRINITY_DN10305_c0_g1_i5_3	0	0	0	0	0	0	0	0	0	1654100	1373100	1320800
TRINITY_DN7619_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	1537400	1913000	893970
TRINITY_DN10995_c0_g2_i4_3	0	0	0	0	0	0	0	0	0	1861400	1128700	1350800
TRINITY_DN10905_c0_g1_i1_4	0	0	0	357920	303850	329890	0	0	0	1073500	1236800	1037400
TRINITY_DN10393_c0_g1_i1_2	1314100	956970	874680	0	0	0	0	0	0	0	0	1191100
TRINITY_DN13635_c0_g1_i3_1	0	0	0	0	0	0	0	0	0	1094300	2454200	782080
TRINITY_DN9622_c1_g3_i1_2	386490	0	0	0	0	0	0	0	0	3941200	0	0
TRINITY_DN10585_c0_g2_i1_2	276040	537120	346690	0	1126000	1390000	0	0	0	221990	152980	266980
TRINITY_DN7164_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	2352000	1133900	830340
TRINITY_DN9538_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	2131800	741040	1428000

TRINITY_DN9261_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	1271300	2017400	1009600
TRINITY_DN3879_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	2397800	1752100	135660
TRINITY_DN74_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	1637100	1390400	1257500
TRINITY_DN5513_c0_g1_i1_2	508290	796180	870330	0	0	659690	0	0	0	343580	708450	377570
TRINITY_DN7914_c0_g2_i3_5	0	0	0	0	0	0	0	0	0	2027200	1196300	1018500
TRINITY_DN1457_c0_g1_i1_1	182430	492120	674980	962470	1027400	894920	0	0	0	0	0	0
TRINITY_DN14031_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1287500	1350200	1570400
TRINITY_DN11004_c0_g1_i4_1	0	0	0	0	0	0	0	0	0	1618000	1378400	1209100
TRINITY_DN239_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	2330300	0	1864000
TRINITY_DN6479_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	1355300	1055500	1781200
TRINITY_DN9536_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1344400	2410700	436340
TRINITY_DN8870_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1688800	1398300	1093400
TRINITY_DN13262_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1260000	1578900	1340400
TRINITY_DN11425_c1_g1_i2_1	56608	0	0	0	0	0	0	0	0	1859700	1173100	1083500
TRINITY_DN11659_c1_g1_i1_5	0	0	0	0	0	0	0	0	0	801060	1922100	1438700
TRINITY_DN15964_c0_g1_i1_3	967270	851450	915250	0	156460	132950	0	0	1137100	0	0	0
TRINITY_DN5268_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1642800	1208700	1302800
TRINITY_DN20307_c0_g1_i1_4	0	0	0	0	93711	0	474410	0	602990	1525000	759210	698300
TRINITY_DN2136_c0_g2_i1_2	118830	132840	143110	0	449830	0	0	0	0	1116200	883500	1306900
TRINITY_DN10948_c0_g1_i6_4	0	0	0	0	0	0	0	0	0	1469100	675790	1997100
TRINITY_DN7010_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	2180600	916230	1037500
TRINITY_DN18488_c0_g1_i1_2	382440	538070	982310	424210	815040	0	0	0	0	681050	157720	150940
TRINITY_DN10697_c0_g1_i5_1	0	0	0	0	0	0	0	0	0	2603700	1249900	263390
TRINITY_DN8284_c0_g1_i1_2	241010	143210	414170	0	587570	526280	0	658440	716990	170140	291180	361190
TRINITY_DN6841_c0_g1_i2_2	0	0	0	0	156890	0	545080	0	0	1619800	491070	1285200
TRINITY_DN8688_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	2581300	204620	1301100
TRINITY_DN10771_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	655030	1582300	1841100
TRINITY_DN8280_c0_g2_i1_2	646970	558070	270150	0	1886500	295710	419870	0	0	0	0	0
TRINITY_DN2036_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	2127000	244900	1705000
TRINITY_DN8545_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	1813500	936310	1309400
TRINITY_DN9929_c0_g2_i1_1	176150	199130	0	0	0	0	0	0	3301800	0	210220	164160
TRINITY_DN16390_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1575400	1299200	1176700
TRINITY_DN9968_c0_g1_i3_3	40177	0	79220	120810	0	0	0	0	0	1275100	1171800	1359900

TRINITY_DN6363_c0_g1_i2_3	0	0	190130	1187800	0	356760	0	0	0	923300	718770	665720
TRINITY_DN10584_c0_g1_i2_3	456020	600520	609490	263570	1206500	905360	0	0	0	0	0	0
TRINITY_DN10580_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1717900	1036400	1277100
TRINITY_DN320_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	1941100	1116900	951930
TRINITY_DN4506_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	1454100	1429000	1126700
TRINITY_DN11518_c0_g3_i1_3	0	0	0	0	0	0	0	0	0	435820	2106800	1461100
TRINITY_DN8574_c0_g2_i2_3	0	0	0	0	0	0	0	0	0	2739200	1051700	201240
TRINITY_DN7917_c0_g1_i3_2	0	0	0	293690	0	248390	1837200	1171700	0	187240	109250	144030
TRINITY_DN11331_c0_g10_i5_1	0	0	0	0	0	0	0	0	0	1292000	1034400	1664100
TRINITY_DN305_c1_g1_i1_2	0	0	0	0	0	0	0	0	0	1704200	1172100	1112500
TRINITY_DN10976_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	1797900	473280	1707600
TRINITY_DN4215_c0_g2_i1_1	0	0	3977400	0	0	0	0	0	0	0	0	0
TRINITY_DN11518_c0_g1_i3_1	0	0	0	0	0	0	0	358530	0	1333800	909320	1367000
TRINITY_DN8989_c0_g2_i2_3	0	0	0	0	0	0	0	0	0	1527700	1248300	1187800
TRINITY_DN18517_c0_g1_i1_6	0	171180	0	303490	482070	275510	0	0	0	1967200	225420	533610
TRINITY_DN3918_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1733800	1271000	943020
TRINITY_DN8387_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	2161500	759250	1024500
TRINITY_DN8291_c1_g1_i2_1	0	0	0	0	0	0	0	0	0	2065000	1672200	204540
TRINITY_DN4038_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	1522300	1380700	1009400
TRINITY_DN8117_c0_g1_i1_1	0	168170	320740	515810	856980	0	0	0	0	905570	472220	672040
TRINITY_DN11962_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	1849500	968830	1083600
TRINITY_DN10349_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	1086700	1612400	1202700
TRINITY_DN4294_c0_g2_i1_3	108800	136930	252060	1198000	899980	1298800	0	0	0	0	0	0
TRINITY_DN10817_c0_g2_i5_3	0	0	0	0	0	0	0	0	0	1608000	669900	1612600
TRINITY_DN15272_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	1233700	1025900	1625900
TRINITY_DN2207_c0_g1_i1_5	85072	0	0	0	0	74856	0	0	0	1106100	814920	1798700
TRINITY_DN10776_c0_g2_i2_1	0	0	0	148580	170090	160290	0	0	0	1926200	551420	918530
TRINITY_DN9409_c0_g1_i1_2	0	0	0	213870	760840	383570	0	0	0	818400	504620	1178500
TRINITY_DN4376_c0_g1_i3_3	0	0	0	0	0	0	0	0	0	1493700	881710	1470700
TRINITY_DN13346_c0_g1_i1_4	117400	125910	131610	266260	173570	231570	0	0	0	1300500	642090	828170
TRINITY_DN19634_c0_g1_i1_3	0	0	2146900	0	1669900	0	0	0	0	0	0	0
TRINITY_DN8342_c0_g2_i2_2	0	0	0	0	0	0	0	0	0	1706900	350860	1757700
TRINITY_DN8274_c0_g2_i2_2	514780	501200	534690	636580	457120	466430	0	0	0	697610	0	0

TRINITY_DN11230_c0_g2_i11_6	0	0	21432	596250	0	655540	770880	0	717970	581660	0	458610
TRINITY_DN6850_c0_g1_i1_2	243290	178200	434400	806920	1576000	277450	0	0	0	282680	0	0
TRINITY_DN4513_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1527100	1340900	928360
TRINITY_DN11374_c0_g1_i7_3	0	0	0	0	0	0	0	0	0	1909900	960510	922010
TRINITY_DN11011_c0_g1_i3_3	0	0	0	0	0	0	690710	1108700	1979400	0	0	0
TRINITY_DN8107_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1721600	687710	1350500
TRINITY_DN9485_c0_g1_i2_4	0	0	0	0	0	0	0	3757300	0	0	0	0
TRINITY_DN7556_c0_g1_i1_1	207710	423630	407160	276030	267580	267640	0	0	0	1182600	342950	374790
TRINITY_DN14011_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1452800	1282900	1012600
TRINITY_DN8957_c0_g1_i1_2	0	51455	0	0	0	0	0	1162900	1189200	0	510560	827620
TRINITY_DN11390_c1_g1_i2_2	0	0	0	0	0	0	0	0	0	2106700	0	1634900
TRINITY_DN17748_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	2004800	1718700	0
TRINITY_DN6342_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	1665500	1428800	621560
TRINITY_DN11664_c0_g1_i2_3	166530	129600	0	321670	129810	104990	471880	629960	0	382950	727390	650660
TRINITY_DN9943_c0_g1_i2_6	0	0	0	0	0	0	0	0	0	1648400	1014700	1048700
TRINITY_DN13988_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	1732600	841110	1122900
TRINITY_DN19538_c0_g1_i1_4	627360	927580	1002900	313640	0	0	0	384270	438980	0	0	0
TRINITY_DN10766_c0_g1_i8_2	0	0	0	0	0	0	0	0	0	1538100	1012200	1140300
TRINITY_DN11385_c0_g1_i2_1	721020	0	0	0	1430400	665100	0	0	0	600820	272460	0
TRINITY_DN10112_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1686400	683790	1308500
TRINITY_DN7707_c0_g1_i1_4	132270	248780	237410	70618	0	0	0	0	0	1402100	348700	1234000
TRINITY_DN15157_c0_g1_i1_5	0	0	0	332260	324460	0	318920	0	0	920850	1100700	676380
TRINITY_DN1898_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	1535100	1046200	1082000
TRINITY_DN12752_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1213700	1066800	1382200
TRINITY_DN10808_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	1394500	662400	1603500
TRINITY_DN10486_c0_g1_i1_1	22768	208180	258590	0	295160	0	0	0	0	2025900	411600	437710
TRINITY_DN1527_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1683700	1299700	671690
TRINITY_DN19189_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1138000	992960	1514600
TRINITY_DN8363_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1163300	1278600	1199100
TRINITY_DN11604_c0_g1_i7_2	380800	351010	455240	731890	983410	736090	0	0	0	0	0	0
TRINITY_DN4772_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1923500	626560	1087200
TRINITY_DN8086_c0_g1_i1_2	0	0	141530	0	0	3042500	0	0	0	448550	0	0
TRINITY_DN3945_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1024800	0	2606500

TRINITY_DN9766_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	2186500	771270	668650
TRINITY_DN8049_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1993800	1090600	537100
TRINITY_DN11285_c0_g1_i5_6	959680	659800	774560	634070	0	0	0	0	0	564890	0	0
TRINITY_DN9993_c0_g1_i4_4	0	0	0	0	0	0	0	0	0	1345900	1254000	989720
TRINITY_DN18979_c0_g1_i1_4	0	0	0	0	288770	0	225030	209080	0	734560	930090	1192500
TRINITY_DN9241_c0_g1_i1_2	0	101240	0	350250	1184600	0	0	0	0	920430	310560	701560
TRINITY_DN17053_c0_g1_i1_3	0	0	0	431970	230440	239580	2393200	0	0	265660	0	0
TRINITY_DN8570_c0_g1_i2_1	0	0	0	0	0	0	1198600	0	1444600	306950	163320	429300
TRINITY_DN11109_c0_g2_i3_1	0	0	0	0	0	0	0	0	0	1746500	1170000	620980
TRINITY_DN23174_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1347800	1144000	1045100
TRINITY_DN11127_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1514400	1054400	967520
TRINITY_DN3682_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1368100	1102600	1060900
TRINITY_DN11049_c0_g1_i2_6	0	0	0	0	0	0	0	0	0	847600	1325000	1357700
TRINITY_DN4610_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1792700	1203600	520330
TRINITY_DN3669_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	1357100	1036500	1121800
TRINITY_DN374_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	1852100	700230	958370
TRINITY_DN1993_c0_g1_i1_1	0	0	0	0	147830	0	0	0	0	1044200	1622000	695960
TRINITY_DN11635_c2_g1_i3_2	0	0	0	0	0	0	0	3055400	0	230340	207450	0
TRINITY_DN5082_c0_g1_i1_6	625950	707000	796890	0	636450	618990	0	0	0	107120	0	0
TRINITY_DN8123_c0_g1_i1_1	0	0	309180	523920	445250	420680	0	0	0	941980	565230	275380
TRINITY_DN10102_c0_g1_i2_4	67311	0	0	630290	0	1049200	828270	489740	0	0	265270	140770
TRINITY_DN15522_c0_g1_i1_1	265930	399290	148150	643110	717350	659120	311780	0	302420	0	0	0
TRINITY_DN5853_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	1560000	1075500	808610
TRINITY_DN4080_c1_g1_i1_3	0	0	0	0	0	0	0	0	0	1102600	1319200	1018300
TRINITY_DN2512_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	127420	1708200	1604400
TRINITY_DN8982_c0_g1_i3_1	0	0	0	0	0	0	0	0	0	1365200	1154900	918420
TRINITY_DN5937_c0_g1_i1_6	0	0	0	0	0	100640	0	0	0	813340	1047100	1460800
TRINITY_DN10930_c0_g2_i2_1	0	0	0	0	0	0	0	0	0	319090	1649200	1450700
TRINITY_DN13030_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	1147700	1304400	951580
TRINITY_DN5505_c0_g1_i1_3	311690	432550	497100	0	184530	133880	0	0	0	612970	551050	675880
TRINITY_DN11234_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	1361100	1078200	956300
TRINITY_DN3811_c0_g2_i1_6	648160	889140	784850	0	0	274710	0	605340	0	0	180430	0
TRINITY_DN12438_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	1316100	1070700	993640

TRINITY_DN21231_c0_g1_i1_4	0	0	0	906400	913470	971640	0	0	0	250790	0	329350
TRINITY_DN22880_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1265900	1053700	1043000
TRINITY_DN209_c0_g1_i1_6	0	0	0	0	0	0	0	3353700	0	0	0	0
TRINITY_DN11070_c0_g1_i6_2	0	0	0	0	0	0	0	0	0	1054200	469500	1825300
TRINITY_DN6751_c0_g1_i1_5	101690	0	0	797260	853840	906270	0	0	0	128090	321120	238970
TRINITY_DN9669_c0_g1_i1_5	0	0	0	1727800	250940	1146400	0	0	0	108760	107830	0
TRINITY_DN6123_c0_g1_i1_4	0	0	65345	0	181640	0	0	0	0	1705200	0	1369900
TRINITY_DN9646_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1242100	1097300	982680
TRINITY_DN3063_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	1269600	1092000	954520
TRINITY_DN8427_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	3313500	0	0
TRINITY_DN10246_c1_g1_i1_3	82634	194270	436690	293040	394560	1526600	0	0	0	166480	0	215460
TRINITY_DN9816_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	1927100	0	1381200
TRINITY_DN6842_c0_g1_i1_5	151400	137780	236580	931220	917500	0	0	0	0	385810	338140	203130
TRINITY_DN4755_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	1450600	462810	1378700
TRINITY_DN8066_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1480600	882170	914580
TRINITY_DN7303_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	941100	1497300	828980
TRINITY_DN9503_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	2198500	634300	431970
TRINITY_DN4985_c0_g1_i1_3	0	0	0	469130	824160	494540	0	0	0	594630	459930	420350
TRINITY_DN11329_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	1980200	474980	806100
TRINITY_DN4045_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	2326700	473600	458920
TRINITY_DN11005_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	1403700	1298300	556270
TRINITY_DN6033_c0_g1_i1_3	0	0	0	253570	0	694950	0	0	0	1074400	691070	542860
TRINITY_DN10177_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1756100	650570	844120
TRINITY_DN2451_c0_g1_i1_2	59441	87270	47799	0	0	0	0	0	0	971600	1145500	929980
TRINITY_DN2230_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	1137500	1473000	630770
TRINITY_DN6871_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	895280	1231400	1106300
TRINITY_DN12604_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1385200	1417300	427270
TRINITY_DN11543_c0_g1_i1_3	0	1449100	1779300	0	0	0	0	0	0	0	0	0
TRINITY_DN8511_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	890430	1255200	1082800
TRINITY_DN7492_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	3225600	0	0
TRINITY_DN10983_c0_g1_i3_5	0	0	0	0	0	0	0	0	0	1492900	1575700	149160
TRINITY_DN20990_c0_g1_i1_1	569780	351560	471880	0	1255100	563430	0	0	0	0	0	0
TRINITY_DN7067_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	794970	1024400	1387600

TRINITY_DN10272_c0_g1_i2_4	0	0	0	0	0	0	0	0	0	1240600	859300	1102000
TRINITY_DN7028_c0_g1_i1_3	0	0	0	0	0	69825	0	1491200	1240900	0	377870	0
TRINITY_DN9822_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	1365200	0	1791400
TRINITY_DN10973_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	1346400	752960	1047800
TRINITY_DN8002_c0_g1_i1_2	122910	0	0	0	496020	76999	0	1485500	0	356430	298840	306230
TRINITY_DN10262_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	1365000	979120	790620
TRINITY_DN5679_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	727480	1869500	530660
TRINITY_DN728_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	1217600	1387600	515860
TRINITY_DN11853_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1954000	1023600	137320
TRINITY_DN11868_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	1176000	1067000	865260
TRINITY_DN10119_c0_g1_i1_1	54789	0	335770	733790	1209000	0	0	0	0	0	335770	436940
TRINITY_DN2584_c0_g2_i1_3	0	0	0	777570	565280	733490	385460	418720	0	0	95126	129640
TRINITY_DN9619_c0_g2_i2_2	170020	0	237600	0	0	0	0	0	0	527580	917870	1216400
TRINITY_DN10243_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1283200	1140700	643580
TRINITY_DN17816_c0_g1_i1_6	0	1713600	1352700	0	0	0	0	0	0	0	0	0
TRINITY_DN23502_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1094500	1054600	912670
TRINITY_DN4242_c0_g1_i3_4	500620	852760	742220	0	957220	0	0	0	0	0	0	0
TRINITY_DN11128_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1517600	354850	1178100
TRINITY_DN6438_c0_g3_i1_3	0	0	0	0	0	0	0	0	0	604110	1144500	1295500
TRINITY_DN8591_c0_g1_i2_5	1081700	311840	1013300	493680	0	0	0	0	0	0	136710	0
TRINITY_DN13303_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	3033200	0	0
TRINITY_DN11162_c0_g1_i3_4	0	0	0	261120	303230	245390	0	0	0	799810	550230	870780
TRINITY_DN17711_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	1330100	0	1693200
TRINITY_DN7181_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	2341000	670800	0
TRINITY_DN8712_c0_g1_i1_2	0	53057	0	0	130180	0	0	0	0	1632000	467670	723460
TRINITY_DN11271_c1_g2_i1_1	281700	463670	525090	460300	647740	618890	0	0	0	0	0	0
TRINITY_DN10739_c0_g1_i1_3	0	0	0	0	0	0	794570	849060	0	727710	294310	326570
TRINITY_DN11930_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	1499100	381110	1104700
TRINITY_DN19914_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1110000	1379900	494150
TRINITY_DN9037_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	503050	1731800	743370
TRINITY_DN9789_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1550100	1418600	0
TRINITY_DN11534_c1_g1_i2_2	0	0	0	0	0	0	0	0	0	1247600	1106700	611570
TRINITY_DN5090_c0_g1_i1_1	80593	0	68527	1123600	95836	1120400	0	0	0	229000	246320	0

TRINITY_DN11564_c1_g1_i1_3	0	57045	57144	0	0	0	0	0	0	1634600	116390	1097400
TRINITY_DN13530_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1403800	1057600	498600
TRINITY_DN11513_c0_g1_i18_2	846690	977860	0	317530	323360	494360	0	0	0	0	0	0
TRINITY_DN9031_c0_g2_i2_1	581890	137150	0	931310	709910	594220	0	0	0	0	0	0
TRINITY_DN9718_c0_g1_i1_1	364100	334210	137680	0	0	0	0	0	0	977020	459410	674730
TRINITY_DN7063_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	894360	1473500	579190
TRINITY_DN22484_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	917470	1050800	971600
TRINITY_DN10475_c1_g1_i1_4	150180	191010	210090	0	0	0	0	0	1402500	177060	134710	647320
TRINITY_DN11134_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	964470	1306200	633690
TRINITY_DN7509_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1092000	846660	959620
TRINITY_DN15062_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1330000	1339300	218830
TRINITY_DN22190_c0_g1_i1_5	996900	361030	440670	820950	0	0	0	0	0	0	267560	0
TRINITY_DN8143_c0_g1_i3_2	0	0	0	0	0	0	0	0	0	1360000	978670	542760
TRINITY_DN8488_c0_g1_i1_3	0	0	0	0	0	0	117820	0	0	1479500	815380	465420
TRINITY_DN7081_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	1080100	995970	801190
TRINITY_DN5728_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1453300	545340	878460
TRINITY_DN10017_c0_g1_i1_5	0	0	0	388200	261650	312080	0	0	0	883770	105610	923750
TRINITY_DN10253_c0_g1_i2_6	0	0	0	0	0	0	0	0	0	2039400	566650	266190
TRINITY_DN17872_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	472380	1033100	1360400
TRINITY_DN20473_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	984750	1225700	649210
TRINITY_DN5188_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	1406500	964820	485430
TRINITY_DN3281_c0_g1_i1_6	0	0	0	0	0	0	0	1055200	1801500	0	0	0
TRINITY_DN12704_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	899890	1144200	809760
TRINITY_DN11185_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1089900	636500	1123600
TRINITY_DN10615_c1_g1_i1_1	0	0	0	0	0	0	0	0	0	1025200	990370	832780
TRINITY_DN63_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	672160	899400	1276000
TRINITY_DN6258_c0_g1_i2_6	0	0	0	0	0	0	0	0	0	1761100	861990	217360
TRINITY_DN6195_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	2834500	0	0
TRINITY_DN6481_c0_g1_i1_1	0	0	0	0	0	0	1209900	0	1476500	0	0	147920
TRINITY_DN14793_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1079600	711020	1038900
TRINITY_DN4384_c0_g1_i1_6	669160	706700	535710	751610	0	166230	0	0	0	0	0	0
TRINITY_DN9364_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	923010	1427600	477130
TRINITY_DN9162_c0_g3_i1_4	73103	102110	221450	0	704880	560200	0	0	0	556700	454240	151690

TRINITY_DN7289_c0_g1_i1_3	167160	0	0	93815	0	92990	0	0	0	525990	810750	1126100
TRINITY_DN3061_c0_g2_i1_3	992770	559800	609650	0	653760	0	0	0	0	0	0	0
TRINITY_DN10426_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	1041400	1496100	276860
TRINITY_DN10788_c0_g1_i1_1	59174	0	0	546500	345380	458910	0	513600	879400	0	0	0
TRINITY_DN11653_c0_g1_i11_5	0	0	0	0	0	0	0	0	0	901040	917120	979530
TRINITY_DN8256_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1564800	609120	622410
TRINITY_DN19311_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	1539400	407880	847260
TRINITY_DN11315_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1700400	542970	545890
TRINITY_DN9466_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1022800	855750	905670
TRINITY_DN10194_c0_g1_i1_3	425710	449490	547200	0	0	0	0	0	0	575890	330210	453980
TRINITY_DN6989_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1150700	1078900	549590
TRINITY_DN14960_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	762120	1263900	751480
TRINITY_DN6781_c0_g2_i1_1	0	0	0	154470	0	0	0	0	0	1322000	1286000	0
TRINITY_DN4623_c0_g2_i2_1	239160	677680	799730	230900	711750	0	0	0	0	0	52029	43654
TRINITY_DN10600_c0_g1_i1_5	327180	215210	298980	0	399120	0	0	0	0	494760	100190	904450
TRINITY_DN1407_c0_g1_i2_4	0	0	0	0	0	0	0	0	0	1154000	655640	926690
TRINITY_DN2265_c0_g1_i1_5	112250	270180	331490	1179900	473700	368740	0	0	0	0	0	0
TRINITY_DN8192_c0_g2_i2_5	0	0	0	0	0	0	0	0	0	1511700	500580	717230
TRINITY_DN6164_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	831110	600560	1297000
TRINITY_DN715_c0_g1_i1_6	244350	391560	320330	879800	891870	0	0	0	0	0	0	0
TRINITY_DN18948_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	767260	839880	1118700
TRINITY_DN20147_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	840780	671820	1207700
TRINITY_DN8171_c0_g1_i1_2	299520	0	0	0	0	601780	1292400	0	0	206230	0	316200
TRINITY_DN6538_c0_g1_i1_4	466320	0	0	0	0	0	0	0	0	0	2239600	0
TRINITY_DN6949_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	1709800	121930	860860
TRINITY_DN15219_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	665420	1497700	527730
TRINITY_DN11665_c0_g1_i3_2	0	0	0	0	0	0	0	0	0	1769600	150840	763120
TRINITY_DN17687_c0_g1_i1_2	199920	395310	267270	317630	643080	448910	0	0	0	207390	197230	0
TRINITY_DN9097_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	646240	1703200	326200
TRINITY_DN17840_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1109500	1166500	385460
TRINITY_DN2942_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	1013600	941160	706510
TRINITY_DN4861_c0_g3_i1_4	0	0	0	0	0	0	0	0	0	0	1495400	1158800
TRINITY_DN1788_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	1477200	903620	272300

TRINITY_DN6718_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	1303700	689850	659420
TRINITY_DN2144_c0_g2_i1_3	0	0	0	259620	0	0	0	0	0	800640	756430	834460
TRINITY_DN4927_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	1026100	814900	804410
TRINITY_DN11271_c0_g1_i1_6	0	131480	362420	589970	1289700	265400	0	0	0	0	0	0
TRINITY_DN8924_c0_g1_i1_1	0	0	0	801410	949440	885620	0	0	0	0	0	0
TRINITY_DN779_c0_g1_i1_1	496950	240570	327060	782640	282030	490410	0	0	0	0	0	0
TRINITY_DN938_c0_g1_i1_5	182110	168120	175190	828230	96801	729160	0	0	0	164130	138900	130670
TRINITY_DN9792_c1_g2_i1_6	0	0	0	0	0	0	0	0	0	964580	842950	803420
TRINITY_DN9457_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	934930	795550	875430
TRINITY_DN4143_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	919560	892790	789090
TRINITY_DN13762_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	1805100	782850
TRINITY_DN8478_c1_g1_i1_2	0	0	0	0	0	0	0	0	0	843960	1645700	96239
TRINITY_DN7608_c0_g1_i1_4	287440	290230	333450	199120	0	0	0	0	0	0	407630	1063200
TRINITY_DN4512_c0_g1_i1_4	1184800	742590	653260	0	0	0	0	0	0	0	0	0
TRINITY_DN9675_c0_g1_i1_1	482370	0	203890	0	0	0	0	0	0	660240	505910	723580
TRINITY_DN7474_c0_g2_i1_2	0	50144	68475	0	0	0	0	0	0	393050	1242600	816760
TRINITY_DN10982_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1394700	0	1171900
TRINITY_DN1335_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1185000	782650	596380
TRINITY_DN10530_c0_g1_i4_3	0	0	0	0	0	0	0	0	0	912430	843750	804720
TRINITY_DN8417_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	449750	837850	1271100
TRINITY_DN11265_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	926830	695910	928620
TRINITY_DN2984_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	817890	658060	1074900
TRINITY_DN1687_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	917090	817490	812930
TRINITY_DN8065_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1446100	396890	701010
TRINITY_DN11452_c0_g2_i2_2	0	0	0	0	0	126610	0	0	0	893800	677410	843400
TRINITY_DN6644_c0_g1_i1_2	0	0	136050	404460	840410	394730	0	0	760640	0	0	0
TRINITY_DN3807_c1_g1_i1_3	0	0	0	0	0	0	0	0	0	1583700	0	946430
TRINITY_DN7004_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	1241300	167790	1118700
TRINITY_DN10332_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	624240	892190	1010600
TRINITY_DN8478_c0_g1_i1_1	226820	154530	134300	0	0	0	127190	0	0	595800	350990	929260
TRINITY_DN11043_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	1144600	1369000
TRINITY_DN6414_c0_g2_i2_1	0	0	0	0	223020	358730	0	791560	1140100	0	0	0
TRINITY_DN12528_c0_g1_i1_1	0	0	0	1215600	0	538360	0	0	0	562210	0	193290

TRINITY_DN2126_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	1408500	763020	333410
TRINITY_DN8608_c1_g1_i1_4	1092100	770290	624910	0	0	0	0	0	0	0	0	0
TRINITY_DN10518_c0_g1_i3_1	0	0	0	0	0	0	0	0	0	987020	727540	765290
TRINITY_DN10154_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1428700	834460	208870
TRINITY_DN4990_c0_g2_i1_5	244990	381240	254570	867540	0	720500	0	0	0	0	0	0
TRINITY_DN8848_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1291600	931280	245500
TRINITY_DN2750_c0_g2_i1_2	180470	255330	222140	0	0	1803600	0	0	0	0	0	0
TRINITY_DN6078_c0_g1_i2_4	0	0	0	0	0	0	0	0	0	1022900	854830	582310
TRINITY_DN8790_c0_g2_i2_2	0	0	0	0	0	0	0	0	0	1274400	1162800	0
TRINITY_DN6367_c0_g1_i1_3	375850	314700	143070	0	0	0	0	0	0	474140	850900	272330
TRINITY_DN11511_c1_g1_i1_6	508490	0	407130	797570	715770	0	0	0	0	0	0	0
TRINITY_DN6200_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	955390	752050	719980
TRINITY_DN8259_c0_g1_i1_2	632480	346440	510730	0	826090	110260	0	0	0	0	0	0
TRINITY_DN6098_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	482280	1154100	786290
TRINITY_DN17635_c0_g1_i1_1	128890	0	0	0	0	0	0	0	0	716200	1576400	0
TRINITY_DN21752_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1315200	700680	405440
TRINITY_DN11371_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	1180900	409910	826170
TRINITY_DN4480_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	823180	712590	877170
TRINITY_DN6825_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	667990	490640	1231600
TRINITY_DN15184_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	1470800	485740	431720
TRINITY_DN2842_c0_g1_i1_6	98353	86739	108140	612710	443220	407770	0	0	0	346980	108460	173630
TRINITY_DN7658_c0_g1_i1_3	0	0	228690	0	0	0	0	0	0	877860	632600	643090
TRINITY_DN6555_c0_g1_i2_5	0	0	0	0	0	0	0	0	0	1009900	753070	617970
TRINITY_DN7691_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	966540	579700	829060
TRINITY_DN11075_c0_g1_i1_1	0	0	0	0	0	0	0	1172200	1199900	0	0	0
TRINITY_DN8971_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	1171700	486120	713710
TRINITY_DN11579_c0_g1_i2_1	0	0	0	72816	0	0	0	0	0	926830	938700	425190
TRINITY_DN3015_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1492800	869390	0
TRINITY_DN1893_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	897080	786530	678370
TRINITY_DN51_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1201100	0	1154700
TRINITY_DN9907_c0_g2_i2_3	0	0	0	0	0	0	0	0	0	0	1087600	1265700
TRINITY_DN12604_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1144200	609210	596840
TRINITY_DN16223_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1589000	0	759240

TRINITY_DN1060_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1395800	605350	343850
TRINITY_DN10488_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	483520	918280	932860
TRINITY_DN9024_c1_g1_i2_5	0	0	0	0	0	0	0	0	0	694810	902690	734810
TRINITY_DN10216_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1305600	573800	450930
TRINITY_DN4751_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	798500	706160	823400
TRINITY_DN3627_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	546640	579290	1200900
TRINITY_DN5091_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	1044900	880160	386580
TRINITY_DN10763_c0_g1_i4_1	0	0	0	0	0	0	0	0	0	2303000	0	0
TRINITY_DN11635_c2_g1_i6_2	35914	0	0	0	509300	418600	0	0	0	504180	284940	549310
TRINITY_DN19987_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	861670	612620	827100
TRINITY_DN10849_c0_g1_i2_5	0	0	0	0	0	0	0	0	0	0	1229100	1064400
TRINITY_DN9489_c0_g2_i1_2	0	0	0	0	0	0	1619100	655290	0	0	0	0
TRINITY_DN4080_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1750600	270070	248310
TRINITY_DN6613_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	822770	760010	674160
TRINITY_DN8186_c0_g1_i3_1	0	0	0	0	0	0	0	0	0	527100	1019000	706660
TRINITY_DN11291_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	626000	854220	772090
TRINITY_DN11520_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1440200	251500	547540
TRINITY_DN8996_c0_g1_i1_4	0	0	0	926440	0	865960	0	0	0	214810	229340	0
TRINITY_DN10798_c1_g1_i1_2	0	0	0	0	0	0	0	0	0	1291400	0	935490
TRINITY_DN4765_c0_g3_i1_1	0	0	0	0	0	0	0	0	0	820140	201720	1201500
TRINITY_DN8594_c0_g1_i1_1	0	0	0	0	1136800	0	0	0	0	154770	337460	592730
TRINITY_DN10973_c0_g3_i2_1	0	0	0	0	0	0	0	0	0	1201600	627250	373660
TRINITY_DN17195_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	974230	743950	479980
TRINITY_DN7057_c1_g1_i1_2	0	0	0	0	0	0	0	0	0	1314000	263030	620290
TRINITY_DN23079_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	863290	723280	607640
TRINITY_DN1992_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	828960	697740	666920
TRINITY_DN13881_c0_g1_i1_1	409080	0	0	0	0	0	641380	797790	0	176490	0	167570
TRINITY_DN14656_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1190100	218790	777190
TRINITY_DN3861_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	978160	381290	824320
TRINITY_DN8241_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	78118	0	2102900
TRINITY_DN17884_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	1018800	925490	233480
TRINITY_DN7822_c0_g1_i3_2	0	0	0	0	271440	354850	0	0	0	652590	428180	469660
TRINITY_DN11037_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1086300	0	1071600

TRINITY_DN5712_c0_g2_i2_1	0	0	0	0	0	0	0	0	0	552680	954900	646500
TRINITY_DN22171_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	1047200	585130	519590
TRINITY_DN12955_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	818630	637090	681720
TRINITY_DN10631_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	1160200	324790	650150
TRINITY_DN6543_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	1062300	691860	379730
TRINITY_DN10109_c0_g1_i3_2	0	0	0	0	0	0	0	0	0	849810	669930	611880
TRINITY_DN11659_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	801550	717340	611730
TRINITY_DN21796_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1074500	170460	882890
TRINITY_DN10608_c0_g1_i4_3	0	0	0	0	0	0	0	0	0	675740	963170	483540
TRINITY_DN8882_c0_g1_i3_2	0	0	0	0	0	0	0	0	0	1228400	423100	469790
TRINITY_DN8417_c1_g1_i1_6	0	0	0	0	0	180590	0	0	0	899760	335340	693730
TRINITY_DN285_c0_g1_i1_6	50704	0	0	268050	274360	278760	748080	0	488980	0	0	0
TRINITY_DN8647_c0_g1_i1_4	0	0	0	0	0	0	0	0	2108300	0	0	0
TRINITY_DN1686_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1091900	1014900	0
TRINITY_DN16666_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1221800	883050	0
TRINITY_DN8134_c0_g1_i1_2	722220	455030	521520	0	0	404410	0	0	0	0	0	0
TRINITY_DN1558_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1162000	566150	373160
TRINITY_DN7263_c0_g1_i1_2	0	0	0	173460	0	0	0	0	0	661130	635880	629600
TRINITY_DN9028_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	865560	570260	659310
TRINITY_DN10191_c0_g1_i1_3	72507	62936	0	269810	0	243250	0	0	0	519220	489460	435200
TRINITY_DN9202_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	1192700	0	894430
TRINITY_DN3322_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	668870	621860	794490
TRINITY_DN661_c0_g1_i1_1	0	0	0	126530	0	0	0	0	0	938370	413590	604630
TRINITY_DN284_c0_g2_i1_5	0	40153	103760	357940	833940	582040	0	0	0	0	165000	0
TRINITY_DN804_c0_g1_i1_1	0	0	0	248200	0	310920	0	0	0	577730	462250	472390
TRINITY_DN14006_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	815800	718020	535690
TRINITY_DN21069_c0_g1_i1_4	0	0	0	0	0	0	494740	553950	0	329350	221220	469060
TRINITY_DN9015_c0_g1_i1_4	0	353250	254350	1342500	0	109460	0	0	0	0	0	0
TRINITY_DN10966_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	764320	714370	579900
TRINITY_DN3062_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1052000	654020	345140
TRINITY_DN15393_c0_g1_i1_5	0	0	0	0	1013200	1032900	0	0	0	0	0	0
TRINITY_DN7397_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	841530	324890	879480
TRINITY_DN843_c0_g1_i1_5	0	119270	76284	0	0	208180	731280	0	0	619130	291290	0

TRINITY_DN13608_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	767510	655240	617540
TRINITY_DN3889_c0_g3_i1_3	209650	1093800	736800	0	0	0	0	0	0	0	0	0
TRINITY_DN6029_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	723680	816410	499640
TRINITY_DN5896_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	408190	843190	783610
TRINITY_DN12487_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	752960	1282000
TRINITY_DN21101_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	1103100	488840	441990
TRINITY_DN20395_c0_g2_i1_2	0	0	0	610790	552810	102980	0	0	0	445830	311820	0
TRINITY_DN11574_c0_g1_i5_3	626970	763570	576400	0	0	0	0	0	0	57057	0	0
TRINITY_DN16156_c0_g1_i1_2	360440	192640	208840	0	341550	0	0	0	0	341890	285840	286310
TRINITY_DN10717_c1_g1_i3_1	0	18128	0	0	811450	547350	0	0	0	0	352560	286770
TRINITY_DN11531_c0_g1_i3_3	0	0	0	0	0	0	0	0	0	1358800	270340	385610
TRINITY_DN7911_c0_g1_i3_1	279720	261800	113910	0	0	0	537790	0	635950	184280	0	0
TRINITY_DN5389_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	782910	653070	577260
TRINITY_DN7964_c0_g4_i1_6	0	0	0	0	0	0	0	490640	0	763520	593700	162770
TRINITY_DN12169_c0_g1_i1_2	0	36336	73730	0	328180	0	1438200	0	0	0	128640	0
TRINITY_DN23339_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	704100	686590	609780
TRINITY_DN9250_c0_g1_i1_3	0	0	0	243850	316130	479250	959520	0	0	0	0	0
TRINITY_DN18399_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	523260	740960	721300
TRINITY_DN9486_c0_g1_i1_2	123890	285610	464650	583600	526730	0	0	0	0	0	0	0
TRINITY_DN5674_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	579600	610540	793490
TRINITY_DN6255_c0_g3_i1_1	63878	80554	0	594710	368030	138360	0	0	0	413430	0	319390
TRINITY_DN10766_c0_g1_i3_3	0	0	0	0	0	0	0	0	0	1295500	207870	474440
TRINITY_DN10543_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	832710	647740	482880
TRINITY_DN2263_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	765370	591600	600560
TRINITY_DN11003_c0_g2_i5_2	0	0	0	0	854420	228940	0	0	0	0	872150	0
TRINITY_DN9687_c1_g1_i2_2	0	0	1357200	0	0	596570	0	0	0	0	0	0
TRINITY_DN9737_c1_g1_i1_4	456360	570070	679170	0	0	247960	0	0	0	0	0	0
TRINITY_DN11475_c0_g1_i1_2	894600	1056200	0	0	0	0	0	0	0	0	0	0
TRINITY_DN6747_c0_g1_i1_2	0	0	1187300	0	0	0	0	0	0	760630	0	0
TRINITY_DN2919_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	1317200	0	630200
TRINITY_DN9215_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	598460	927130	419980
TRINITY_DN5123_c0_g1_i2_4	0	0	0	0	0	0	0	0	0	814560	509180	616720
TRINITY_DN2276_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	632840	624910	679200

TRINITY_DN8639_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	579610	707350	647410
TRINITY_DN6651_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	870010	738040	325820
TRINITY_DN8585_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	483290	645200	803240
TRINITY_DN21541_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	785410	624020	512520
TRINITY_DN8030_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1141000	780490	0
TRINITY_DN7519_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	405410	599300	911230
TRINITY_DN11415_c0_g1_i1_1	0	0	0	0	0	0	1134900	0	0	318840	0	461840
TRINITY_DN9353_c0_g1_i1_3	314770	0	0	1155000	0	0	0	0	0	0	238500	206670
TRINITY_DN5812_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	416390	1494600	0
TRINITY_DN11107_c1_g1_i4_3	0	0	0	0	0	0	0	0	0	1459700	100310	347110
TRINITY_DN3448_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	546650	660250	699450
TRINITY_DN9452_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	539250	844400	520000
TRINITY_DN8582_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	1051400	657650	189600
TRINITY_DN15392_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	1068800	410390	414360
TRINITY_DN2089_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	617820	749290	518300
TRINITY_DN8917_c0_g2_i1_3	17013	34377	38416	143990	0	0	0	0	0	1165100	128120	357240
TRINITY_DN16117_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	1018000	865500	0
TRINITY_DN8546_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	152380	1080100	649660
TRINITY_DN3962_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	652440	649940	573910
TRINITY_DN2992_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	753810	621510	499620
TRINITY_DN11605_c1_g1_i1_5	0	0	0	0	0	0	0	0	0	1034500	0	839380
TRINITY_DN401_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	697610	607600	554230
TRINITY_DN18414_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	661120	0	1195300
TRINITY_DN9346_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	1082600	626060	139650
TRINITY_DN8618_c0_g2_i2_4	438310	488260	413860	249100	255770	0	0	0	0	0	0	0
TRINITY_DN5167_c0_g1_i1_5	0	0	0	0	0	0	434280	0	1408900	0	0	0
TRINITY_DN15469_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	1065500	0	775860
TRINITY_DN19298_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	1008000	826340
TRINITY_DN11193_c0_g2_i3_2	0	0	0	0	0	0	0	0	0	1329700	499690	0
TRINITY_DN11599_c1_g1_i4_1	260580	407810	663510	121420	154710	0	0	0	0	221390	0	0
TRINITY_DN6675_c0_g1_i4_2	0	0	0	0	0	0	0	0	0	739270	600730	488060
TRINITY_DN9665_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	714630	632490	480030
TRINITY_DN10222_c0_g1_i5_2	0	0	0	0	0	0	0	0	0	755360	327440	730370

TRINITY_DN8244_c0_g1_i1_2	81393	0	197820	0	0	0	0	0	0	0	944480	587020
TRINITY_DN6988_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	430430	611540	765650
TRINITY_DN21693_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	774320	401180	631170
TRINITY_DN6721_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	781290	647210	378030
TRINITY_DN10523_c1_g1_i1_2	0	0	0	0	0	0	0	0	0	0	843630	962460
TRINITY_DN8754_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1099200	705720	0
TRINITY_DN21226_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	351620	776870	672170
TRINITY_DN18056_c0_g1_i1_1	235420	136490	264600	0	828360	119710	0	0	0	120690	0	95014
TRINITY_DN11502_c0_g1_i1_2	379280	0	431640	158550	0	0	335800	0	0	217020	0	276760
TRINITY_DN8308_c0_g2_i1_2	150350	137970	0	711380	794880	0	0	0	0	0	0	0
TRINITY_DN5126_c0_g1_i2_2	0	0	0	334840	277350	151310	0	0	0	497540	0	532850
TRINITY_DN7908_c0_g1_i1_3	0	0	0	0	425940	220240	0	0	0	351100	271710	524890
TRINITY_DN10955_c0_g2_i3_1	236300	331700	418390	294020	243240	270080	0	0	0	0	0	0
TRINITY_DN8800_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	806650	415990	570030
TRINITY_DN4365_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	641840	694610	454480
TRINITY_DN14633_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1353600	356190	80093
TRINITY_DN3011_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	709760	560090	519900
TRINITY_DN2343_c0_g1_i1_1	0	169050	146810	0	140250	0	267290	0	403250	181930	338270	142460
TRINITY_DN9033_c1_g1_i1_6	0	0	0	0	0	0	0	0	0	910750	865650	0
TRINITY_DN2502_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	256820	781000	735710
TRINITY_DN7907_c0_g1_i4_4	0	0	0	0	0	0	0	0	0	475660	376320	920950
TRINITY_DN642_c0_g1_i1_2	0	0	0	0	0	0	457010	984640	329990	0	0	0
TRINITY_DN701_c0_g2_i1_6	456280	211850	229400	203140	0	129080	292330	0	0	131970	116730	0
TRINITY_DN6896_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	717340	562210	489680
TRINITY_DN12989_c1_g1_i1_1	0	0	0	0	0	0	0	0	0	0	918520	848900
TRINITY_DN11038_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	873300	260600	632410
TRINITY_DN6818_c0_g1_i1_3	498170	390600	366210	196990	156620	0	0	0	0	0	157170	0
TRINITY_DN18372_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	831820	300330	631560
TRINITY_DN19362_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	917200	298210	542530
TRINITY_DN13345_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	626410	601020	527100
TRINITY_DN8412_c0_g1_i2_1	129990	207330	194290	0	0	0	0	0	1221600	0	0	0
TRINITY_DN15351_c0_g1_i1_3	0	0	0	564730	357790	443560	381220	0	0	0	0	0
TRINITY_DN19403_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1039300	234370	472880

TRINITY_DN4912_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	764190	628560	353760
TRINITY_DN9231_c0_g1_i3_3	0	0	0	838430	907190	0	0	0	0	0	0	0
TRINITY_DN10613_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	717430	584680	438040
TRINITY_DN3524_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	1078900	323170	333880
TRINITY_DN3963_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	772280	707060	252150
TRINITY_DN1013_c0_g2_i1_6	0	0	0	170900	165340	0	0	0	601870	378420	165970	247120
TRINITY_DN6811_c0_g2_i3_2	0	0	0	0	0	0	0	0	0	438350	740690	549970
TRINITY_DN12201_c0_g2_i1_2	104540	101640	178870	0	1049500	0	0	0	0	0	0	291940
TRINITY_DN8972_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	301900	191900	1232600
TRINITY_DN4764_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	463400	780790	477300
TRINITY_DN2457_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	692140	496220	529220
TRINITY_DN11036_c0_g1_i5_1	0	0	0	0	0	0	0	0	0	1208200	182760	318480
TRINITY_DN10961_c0_g1_i3_3	0	0	0	0	0	0	0	0	0	779950	682400	233310
TRINITY_DN4707_c0_g3_i1_1	0	0	0	1304300	0	0	0	0	0	0	389560	0
TRINITY_DN10673_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	787330	184530	719390
TRINITY_DN9408_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	813090	374050	497790
TRINITY_DN1822_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	675110	615420	393890
TRINITY_DN18094_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	745820	584760	352700
TRINITY_DN3816_c0_g1_i1_4	0	0	0	167700	0	0	0	0	0	317570	613570	584480
TRINITY_DN10296_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	983050	698530
TRINITY_DN5361_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	1246100	223410	211230
TRINITY_DN512_c0_g1_i1_4	0	436410	448170	0	260390	207060	0	0	0	208170	59737	60113
TRINITY_DN6953_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	805970	529890	343660
TRINITY_DN22332_c0_g1_i1_1	153580	336070	100460	0	0	620850	0	0	0	0	467130	0
TRINITY_DN8109_c0_g1_i2_3	392190	408670	392040	259380	0	225090	0	0	0	0	0	0
TRINITY_DN9320_c0_g1_i1_1	298530	285510	269400	726080	93108	0	0	0	0	0	0	0
TRINITY_DN3842_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	957960	710530	0
TRINITY_DN19595_c0_g1_i1_5	703060	0	265120	0	0	0	0	0	0	0	696580	0
TRINITY_DN12651_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	1098800	210150	349780
TRINITY_DN5781_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	475830	708080	470010
TRINITY_DN14210_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	393900	723590	533240
TRINITY_DN5618_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1321000	326870	0
TRINITY_DN8203_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	381370	302500	963590

TRINITY_DN4496_c1_g1_i1_2	0	0	0	0	0	0	0	0	0	827000	0	816030
TRINITY_DN13442_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	255380	595840	791570
TRINITY_DN7081_c1_g1_i1_1	0	0	0	0	0	0	0	0	0	471280	398870	772330
TRINITY_DN2528_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	1097300	290100	251460
TRINITY_DN6839_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	911690	721590	0
TRINITY_DN13687_c0_g1_i1_2	0	0	0	396460	0	432950	0	0	0	360840	199630	238330
TRINITY_DN7339_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1627900	0	0
TRINITY_DN5933_c0_g1_i3_1	0	207800	0	609060	808130	0	0	0	0	0	0	0
TRINITY_DN10134_c0_g1_i3_5	0	0	0	0	0	0	0	0	0	705220	597780	319340
TRINITY_DN5831_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	276450	708350	637350
TRINITY_DN8464_c0_g1_i3_6	0	0	0	0	406380	0	0	0	0	441640	387520	383150
TRINITY_DN11887_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	639280	492210	486080
TRINITY_DN3833_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	998480	617700
TRINITY_DN10145_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	536440	1079300
TRINITY_DN7100_c0_g1_i2_3	142820	158890	141940	239790	310080	210040	0	0	0	180390	131130	100240
TRINITY_DN23044_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	612630	483270	503130
TRINITY_DN13518_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	704210	316230	576290
TRINITY_DN19196_c0_g1_i1_5	408560	520670	666300	0	0	0	0	0	0	0	0	0
TRINITY_DN3817_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	837590	754360
TRINITY_DN4458_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	760340	574540	253300
TRINITY_DN7255_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	516350	765620	306000
TRINITY_DN6045_c0_g1_i3_1	0	0	0	0	0	0	0	0	0	1200900	384750	0
TRINITY_DN11230_c0_g1_i2_6	888880	691990	0	0	0	0	0	0	0	0	0	0
TRINITY_DN3420_c0_g1_i2_3	0	0	0	0	224880	0	0	0	0	612620	0	733430
TRINITY_DN11146_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	580620	473470	513940
TRINITY_DN9423_c0_g3_i2_1	0	0	0	0	1567800	0	0	0	0	0	0	0
TRINITY_DN9788_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1235300	331360	0
TRINITY_DN2628_c0_g2_i1_1	265420	117370	166150	374790	474490	0	0	0	0	167910	0	0
TRINITY_DN9299_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	458700	338720	766250
TRINITY_DN11235_c0_g2_i1_1	0	0	0	0	0	0	0	364020	0	289050	680470	230030
TRINITY_DN5744_c1_g1_i2_2	0	0	0	0	0	0	0	0	0	774580	374800	412290
TRINITY_DN5626_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	960510	94074	506720
TRINITY_DN11440_c0_g1_i3_4	0	0	0	0	0	0	0	0	0	0	399170	1159400

TRINITY_DN11350_c0_g1_i3_2	0	0	0	0	0	0	0	0	0	48648	778030	729560
TRINITY_DN11359_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	733780	338390	480890
TRINITY_DN9373_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	889780	0	661890
TRINITY_DN12458_c0_g3_i1_3	0	0	0	0	0	0	0	0	0	777820	194420	575580
TRINITY_DN5495_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	563900	981880	0
TRINITY_DN12738_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	650080	358070	535940
TRINITY_DN7345_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	854770	688050	0
TRINITY_DN6917_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	985500	412210	140090
TRINITY_DN9153_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	896290	303290	338070
TRINITY_DN19500_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	627980	478760	428570
TRINITY_DN12333_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	572400	577700	379820
TRINITY_DN10789_c0_g1_i1_1	0	0	0	453380	535150	538090	0	0	0	0	0	0
TRINITY_DN2912_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	1011700	322450	191830
TRINITY_DN14787_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	627330	563840	334310
TRINITY_DN11096_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	297770	595980	628070
TRINITY_DN5451_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	458420	380110	668970
TRINITY_DN11157_c0_g2_i5_4	685920	819570	0	0	0	0	0	0	0	0	0	0
TRINITY_DN8090_c0_g3_i1_2	0	0	114280	0	109450	0	0	0	0	656220	429080	191810
TRINITY_DN5532_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	251990	668740	575720
TRINITY_DN8331_c0_g2_i1_3	0	0	0	271070	0	470890	0	0	0	567960	0	179750
TRINITY_DN7840_c1_g1_i1_1	0	0	0	0	0	0	0	0	0	1027700	190120	271570
TRINITY_DN1523_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	833630	241160	414320
TRINITY_DN14177_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	576650	448640	462920
TRINITY_DN10869_c1_g1_i2_5	0	0	0	0	0	0	1485700	0	0	0	0	0
TRINITY_DN5473_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	552510	450760	481850
TRINITY_DN21224_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	953580	271580	259850
TRINITY_DN6919_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	681100	390380	411830
TRINITY_DN6224_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	496550	450450	535410
TRINITY_DN1121_c0_g1_i1_3	1480300	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN1480_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	534060	686550	259610
TRINITY_DN12167_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	624850	429110	416610
TRINITY_DN458_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	510650	516090	443790
TRINITY_DN2404_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	559330	516110	392460

TRINITY_DN9978_c0_g1_i1_2	447650	513480	505600	0	0	0	0	0	0	0	0	0
TRINITY_DN8843_c0_g1_i3_1	526730	0	569260	0	0	366030	0	0	0	0	0	0
TRINITY_DN6703_c0_g1_i1_2	0	0	0	0	0	0	0	0	663550	545860	0	250240
TRINITY_DN11300_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	498290	373140	587120
TRINITY_DN3617_c0_g3_i1_5	0	0	0	0	0	0	0	0	0	506580	489610	459020
TRINITY_DN10446_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	684810	211100	558550
TRINITY_DN14501_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	257700	1193700
TRINITY_DN13753_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	562150	395900	491370
TRINITY_DN18831_c0_g1_i1_1	0	0	0	0	291440	0	0	0	0	326490	233480	593800
TRINITY_DN7892_c0_g1_i3_1	287890	306500	245710	255640	0	344310	0	0	0	0	0	0
TRINITY_DN6230_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	993290	440230
TRINITY_DN18774_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	357070	248720	825520
TRINITY_DN1997_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	920600	0	508830
TRINITY_DN7250_c0_g1_i1_5	0	0	0	0	0	0	119250	0	0	574830	350810	370470
TRINITY_DN15321_c0_g1_i1_5	193630	238750	305860	245350	238470	192560	0	0	0	0	0	0
TRINITY_DN19751_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1218400	0	195350
TRINITY_DN3119_c0_g1_i1_5	95031	27217	42047	204470	242210	0	0	0	0	276980	420240	104320
TRINITY_DN2586_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	807570	604810	0
TRINITY_DN18819_c0_g1_i1_4	0	0	0	0	1079900	0	0	0	0	328220	0	0
TRINITY_DN13993_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	853860	0	553860
TRINITY_DN20785_c0_g1_i1_2	117260	84948	89925	420120	541460	0	0	0	0	0	82461	71095
TRINITY_DN11337_c0_g1_i4_2	0	0	0	0	0	0	0	0	0	565600	423160	417340
TRINITY_DN8955_c0_g1_i4_2	0	0	0	0	0	0	0	0	0	576370	391710	437810
TRINITY_DN12162_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	528630	477290	394440
TRINITY_DN9518_c0_g2_i2_1	0	0	0	0	0	0	0	0	0	534350	437830	425380
TRINITY_DN23667_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	782630	611370
TRINITY_DN15391_c0_g1_i1_3	0	0	0	231290	221870	446940	0	0	0	315170	84488	91571
TRINITY_DN8805_c0_g1_i2_1	0	0	0	0	199160	206570	0	0	0	317460	284730	382560
TRINITY_DN7176_c0_g1_i3_3	0	0	0	0	0	0	0	0	0	336300	708550	343060
TRINITY_DN5898_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	538640	392380	440150
TRINITY_DN8672_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	753530	209550	402930
TRINITY_DN1176_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	540110	410960	414370
TRINITY_DN4088_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	568020	566000	230210

TRINITY_DN7361_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	304900	1055500
TRINITY_DN6371_c0_g1_i2_5	0	0	0	0	0	0	0	0	0	768740	382770	207140
TRINITY_DN152_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	789820	226880	338700
TRINITY_DN211_c0_g1_i1_2	670450	346140	331090	0	0	0	0	0	0	0	0	0
TRINITY_DN10187_c0_g2_i3_3	0	0	0	0	0	0	0	0	0	715300	408290	219560
TRINITY_DN10966_c1_g2_i1_2	0	0	0	0	0	0	0	0	0	635980	238170	455830
TRINITY_DN17047_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	676870	242130	409590
TRINITY_DN2953_c0_g1_i1_6	0	0	0	0	104860	0	0	0	0	565310	464710	189180
TRINITY_DN10123_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	847490	407300	64891
TRINITY_DN6691_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	655400	199530	464380
TRINITY_DN9992_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	579940	401490	336460
TRINITY_DN10481_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	530170	465740	320610
TRINITY_DN23047_c0_g1_i1_3	0	308170	0	0	0	232460	334940	436150	0	0	0	0
TRINITY_DN12530_c0_g1_i1_3	75158	162010	101850	519280	0	453050	0	0	0	0	0	0
TRINITY_DN5479_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	468990	573220	265930
TRINITY_DN14670_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	677200	305500	321190
TRINITY_DN7295_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	210640	620160	472310
TRINITY_DN9388_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	181560	633290	488040
TRINITY_DN9217_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	153710	994770	149930
TRINITY_DN11220_c1_g2_i10_1	0	0	0	0	0	0	0	929110	0	137630	126950	103350
TRINITY_DN7324_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	791300	497350
TRINITY_DN8489_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	692510	358750	233670
TRINITY_DN9496_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	574330	532910	177070
TRINITY_DN8940_c0_g2_i1_4	303520	436030	404280	0	0	139650	0	0	0	0	0	0
TRINITY_DN2829_c0_g1_i1_4	983830	265890	33556	0	0	0	0	0	0	0	0	0
TRINITY_DN8775_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	376320	465720	439340
TRINITY_DN4667_c0_g1_i2_3	0	0	0	702880	0	577460	0	0	0	0	0	0
TRINITY_DN22872_c0_g1_i1_1	0	525280	127200	311800	0	314570	0	0	0	0	0	0
TRINITY_DN19824_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	443960	397050	434130
TRINITY_DN9699_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	609640	0	665510
TRINITY_DN3755_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	509140	0	765570
TRINITY_DN11202_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	274110	740900	258920
TRINITY_DN6447_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	293880	476670	502610

TRINITY_DN5808_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	715520	244540	312050
TRINITY_DN10647_c0_g2_i1_5	303280	347510	267720	0	180400	172930	0	0	0	0	0	0
TRINITY_DN14457_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	658400	613140
TRINITY_DN7706_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	772050	499450	0
TRINITY_DN2695_c0_g1_i1_6	0	0	26311	0	0	0	0	0	0	180940	531290	532270
TRINITY_DN3350_c0_g1_i1_2	58733	41657	101620	352520	194240	321360	0	0	0	198240	0	0
TRINITY_DN11297_c1_g1_i1_2	0	0	0	0	0	0	343330	450660	474030	0	0	0
TRINITY_DN11354_c1_g1_i3_1	0	0	0	0	84315	64726	0	0	0	418200	524430	174630
TRINITY_DN12695_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	150180	967870	148140
TRINITY_DN12034_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	356490	576660	332750
TRINITY_DN4302_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	348850	620960	292320
TRINITY_DN18986_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	704080	554370	0
TRINITY_DN16321_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	567790	473290	211590
TRINITY_DN10277_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	554020	211390	486040
TRINITY_DN16791_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	473200	416130	361210
TRINITY_DN7314_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	648590	600280	0
TRINITY_DN11345_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	1248000
TRINITY_DN23429_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	570690	440440	236710
TRINITY_DN4338_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	638200	527040	78057
TRINITY_DN13879_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	480060	438320	324060
TRINITY_DN1790_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	450370	456990	334850
TRINITY_DN5067_c0_g1_i1_3	138580	366510	139380	264150	0	175560	0	0	0	0	78234	79202
TRINITY_DN9550_c0_g1_i1_3	0	0	0	125830	138660	0	0	0	0	413030	230620	330490
TRINITY_DN5828_c0_g1_i2_4	0	0	0	0	471380	279020	0	0	0	180880	305390	0
TRINITY_DN20109_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	670940	563090	0
TRINITY_DN11375_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	335490	0	898210
TRINITY_DN4236_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	1132600	0	100160
TRINITY_DN4156_c0_g1_i1_1	285750	113990	158260	0	0	0	0	0	0	267420	225660	180890
TRINITY_DN11786_c0_g1_i1_3	14242	21081	37809	0	0	0	0	0	0	587200	388880	182400
TRINITY_DN15397_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	758080	0	466060
TRINITY_DN5555_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	265380	560770	396690
TRINITY_DN6669_c0_g2_i2_2	46392	271390	264820	121800	518320	0	0	0	0	0	0	0
TRINITY_DN5818_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	845350	0	376270

TRINITY_DN10622_c0_g1_i3_1	0	0	0	0	0	0	168100	220470	0	424210	244870	162100
TRINITY_DN6444_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	483470	375470	359940
TRINITY_DN8167_c0_g1_i2_2	0	0	117790	227000	0	0	0	0	871970	0	0	0
TRINITY_DN10005_c0_g1_i2_3	0	0	0	421640	0	0	0	604960	0	0	0	188160
TRINITY_DN18506_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	658970	0	555490
TRINITY_DN9802_c0_g1_i3_2	0	0	0	0	0	0	0	0	0	838330	373340	0
TRINITY_DN11201_c1_g1_i1_2	0	0	0	0	0	0	0	0	0	670190	263640	274180
TRINITY_DN2574_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	449440	408280	348040
TRINITY_DN2926_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	602340	172390	430710
TRINITY_DN1172_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	654580	0	550060
TRINITY_DN15441_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	484040	358400	360730
TRINITY_DN2072_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	546550	286010	369350
TRINITY_DN11308_c0_g1_i1_4	35526	0	0	392730	378710	394650	0	0	0	0	0	0
TRINITY_DN11604_c0_g1_i4_3	109820	40201	71921	527440	0	450740	0	0	0	0	0	0
TRINITY_DN6973_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	204600	832790	159750
TRINITY_DN19024_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	608030	138260	447340
TRINITY_DN8174_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	564510	403460	224080
TRINITY_DN6495_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	368560	520300	300950
TRINITY_DN14955_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	404650	782540
TRINITY_DN5794_c0_g1_i3_3	0	0	0	0	0	0	0	0	0	416230	405830	356910
TRINITY_DN5657_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	388100	242340	540970
TRINITY_DN20134_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	428640	380950	361430
TRINITY_DN5823_c1_g1_i1_3	0	0	0	0	0	0	0	0	0	828370	338720	0
TRINITY_DN10611_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	646730	206320	312230
TRINITY_DN8028_c1_g2_i2_1	0	0	84417	323490	383520	330870	0	0	0	0	0	40865
TRINITY_DN20414_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	480400	412900	268150
TRINITY_DN18416_c0_g1_i1_1	79362	74910	93943	0	146770	0	0	0	0	316840	449030	0
TRINITY_DN5396_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	464420	374830	318500
TRINITY_DN4301_c0_g1_i1_1	210990	49036	0	0	0	0	0	0	0	671210	226180	0
TRINITY_DN6535_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	411850	424010	319570
TRINITY_DN5580_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	744620	203140	199000
TRINITY_DN10847_c0_g1_i3_3	0	0	0	0	0	0	0	0	0	446130	350850	347460
TRINITY_DN14525_c0_g1_i1_6	0	0	0	0	0	0	0	394440	0	420710	0	328180

TRINITY_DN10966_c1_g1_i1_2	0	0	0	0	0	0	0	0	0	485660	333680	320990
TRINITY_DN12386_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	237730	702400	199810
TRINITY_DN3579_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	421920	362740	351250
TRINITY_DN19791_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	405420	410700	319510
TRINITY_DN10085_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	776200	204730	151150
TRINITY_DN5782_c0_g1_i1_1	0	0	0	0	0	0	0	0	1130100	0	0	0
TRINITY_DN13590_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1129600	0	0
TRINITY_DN1136_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	442910	365910	313530
TRINITY_DN9839_c0_g1_i1_1	95282	129530	121780	0	0	0	0	0	0	205840	362710	206060
TRINITY_DN3828_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	630730	0	489540
TRINITY_DN800_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	538900	393030	187980
TRINITY_DN10682_c0_g1_i2_5	0	0	0	0	0	0	0	0	0	475320	103750	539240
TRINITY_DN11406_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	445140	355460	317620
TRINITY_DN9265_c0_g1_i1_4	56648	91757	77395	147040	0	0	0	0	743810	0	0	0
TRINITY_DN3622_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	691830	420660
TRINITY_DN4087_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	656850	154340	298610
TRINITY_DN10280_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	449040	304320	351750
TRINITY_DN17659_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	446610	370870	286320
TRINITY_DN391_c0_g2_i1_3	61004	53289	149310	164960	86929	87060	0	0	0	262720	236050	0
TRINITY_DN18625_c0_g1_i1_3	0	609650	491440	0	0	0	0	0	0	0	0	0
TRINITY_DN15558_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	936130	0	164320
TRINITY_DN8990_c0_g1_i6_4	0	0	0	0	0	0	0	0	0	0	588290	510090
TRINITY_DN9713_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	315600	481650	298410
TRINITY_DN4_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	227990	660270	205720
TRINITY_DN3956_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	595440	281870	211910
TRINITY_DN2951_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	490540	468000	127780
TRINITY_DN8715_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	0	705330	380990
TRINITY_DN11521_c0_g3_i1_1	0	0	0	0	0	0	0	0	0	460550	309540	316050
TRINITY_DN7431_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	1082600	0	0
TRINITY_DN20738_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	687170	0	395100
TRINITY_DN11007_c0_g1_i2_1	127570	0	0	0	0	0	271110	0	0	187670	309510	179670
TRINITY_DN18675_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	362340	333620	370010
TRINITY_DN4569_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	535610	315890	210610

TRINITY_DN4303_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	162800	495050	399850
TRINITY_DN11099_c0_g1_i3_2	0	0	0	0	0	0	0	0	0	567040	487950	0
TRINITY_DN5386_c0_g1_i1_2	0	0	0	361520	392560	0	0	0	0	199940	0	100840
TRINITY_DN3521_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	629400	424290	0
TRINITY_DN13705_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	566910	179760	304000
TRINITY_DN3201_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	470330	95978	484070
TRINITY_DN9124_c0_g4_i1_6	0	0	0	0	0	0	0	0	0	376730	252890	419930
TRINITY_DN10878_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	382330	255740	410920
TRINITY_DN8588_c0_g1_i3_2	0	0	0	0	0	0	0	0	0	539500	0	508900
TRINITY_DN8864_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	160910	451490	435380
TRINITY_DN18025_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	518940	527400	0
TRINITY_DN15533_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	949820	0	95774
TRINITY_DN17372_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	391030	309250	342530
TRINITY_DN10448_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	289780	512970	238940
TRINITY_DN2556_c0_g1_i2_1	0	0	0	0	162730	0	0	0	0	0	555680	320920
TRINITY_DN11115_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	403830	331680	303640
TRINITY_DN6126_c0_g1_i2_6	0	0	0	0	0	0	0	0	0	326230	457410	255180
TRINITY_DN18060_c0_g1_i1_4	0	0	0	0	0	0	209300	0	0	0	828460	0
TRINITY_DN8332_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	312390	0	724610
TRINITY_DN7043_c0_g3_i1_3	0	0	0	158930	0	0	0	0	0	189000	0	686350
TRINITY_DN15047_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	406530	357430	270060
TRINITY_DN4679_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	380780	329370	322200
TRINITY_DN5533_c1_g1_i1_2	0	0	0	0	803470	0	0	0	0	0	226900	0
TRINITY_DN3362_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	752760	135120	142390
TRINITY_DN11453_c1_g2_i1_1	0	43324	0	255680	0	0	0	0	0	123780	301050	304870
TRINITY_DN21448_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	747160	278430	0
TRINITY_DN4482_c0_g1_i2_6	0	0	0	0	0	0	0	0	0	205720	670900	143090
TRINITY_DN3062_c1_g1_i1_5	0	0	0	0	0	0	0	0	0	336150	190600	491370
TRINITY_DN21074_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	483950	209660	324100
TRINITY_DN6202_c0_g1_i1_4	0	0	0	0	0	172620	350870	0	0	241330	252210	0
TRINITY_DN9665_c1_g1_i2_1	0	0	0	0	0	0	0	0	0	325010	482800	209160
TRINITY_DN23089_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	490410	525110
TRINITY_DN4752_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	573590	222070	217030

TRINITY_DN6323_c0_g1_i1_4	0	1011100	0	0	0	0	0	0	0	0	0	0
TRINITY_DN7547_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	1011000	0
TRINITY_DN11503_c0_g1_i5_1	318340	382730	308820	0	0	0	0	0	0	0	0	0
TRINITY_DN6410_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	0	509940	498450
TRINITY_DN17585_c0_g1_i1_4	98498	0	0	0	0	0	0	0	0	437790	346780	124770
TRINITY_DN7272_c0_g1_i2_2	66191	0	0	0	123640	85660	274750	0	0	266940	106500	82982
TRINITY_DN8313_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	571710	433960	0
TRINITY_DN10899_c1_g1_i9_2	0	0	0	0	0	0	0	0	0	486320	272050	246290
TRINITY_DN10964_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	0	0	997800
TRINITY_DN5766_c0_g1_i1_2	0	0	0	0	0	0	282770	0	0	220840	493790	0
TRINITY_DN16709_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	453600	197700	345200
TRINITY_DN20234_c0_g1_i1_2	0	0	0	0	0	201200	0	0	0	196580	311480	286590
TRINITY_DN13627_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	166300	683110	144360
TRINITY_DN22360_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	608800	384970	0
TRINITY_DN5465_c0_g1_i1_6	0	231450	226750	0	0	399860	0	0	0	134950	0	0
TRINITY_DN14137_c1_g1_i1_2	0	0	0	0	0	0	0	0	0	346550	344480	300420
TRINITY_DN4218_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	586170	0	404470
TRINITY_DN405_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	453480	403030	124950
TRINITY_DN2745_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	178120	800970
TRINITY_DN15009_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	522290	231360	224360
TRINITY_DN20316_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	447550	278850	249800
TRINITY_DN11294_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	508470	256560	209300
TRINITY_DN19054_c0_g1_i1_3	0	0	411700	0	0	0	0	0	0	134060	105850	321370
TRINITY_DN4034_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	396820	302100	272650
TRINITY_DN12290_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	358490	314700	294350
TRINITY_DN21049_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	478940	487900	0
TRINITY_DN10192_c0_g2_i2_4	0	0	0	0	138510	0	0	0	0	330430	224550	271900
TRINITY_DN5313_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	391510	277690	293900
TRINITY_DN1722_c0_g1_i1_6	0	364720	598320	0	0	0	0	0	0	0	0	0
TRINITY_DN594_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	141780	701280	119970
TRINITY_DN14750_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	287530	221880	452960
TRINITY_DN10152_c0_g1_i1_3	0	961940	0	0	0	0	0	0	0	0	0	0
TRINITY_DN7940_c0_g1_i2_6	0	0	0	0	0	0	0	0	0	387010	0	574510

TRINITY_DN3239_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	532920	0	428110
TRINITY_DN4761_c0_g1_i1_3	271030	181440	280540	0	0	227390	0	0	0	0	0	0
TRINITY_DN8530_c0_g1_i3_3	0	0	0	0	0	0	0	0	0	357640	302800	298260
TRINITY_DN16028_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	584860	373810	0
TRINITY_DN515_c0_g1_i1_1	0	0	0	187030	154150	156210	0	0	0	253210	207280	0
TRINITY_DN9271_c0_g1_i2_1	0	0	0	0	953960	0	0	0	0	0	0	0
TRINITY_DN9769_c0_g1_i2_3	0	0	0	0	0	161840	0	0	0	177410	233590	381090
TRINITY_DN17789_c0_g1_i1_2	0	126650	234740	0	0	0	0	0	0	207100	189900	193150
TRINITY_DN17147_c0_g3_i1_3	194660	0	0	260540	0	206930	0	0	0	0	287250	0
TRINITY_DN18723_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	309250	0	639140
TRINITY_DN13968_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	414510	441940	90814
TRINITY_DN1050_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	509690	437500
TRINITY_DN630_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	945860	0	0
TRINITY_DN10963_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	487320	158300	299530
TRINITY_DN10629_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	319150	540820	84553
TRINITY_DN2614_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	310350	0	631910
TRINITY_DN11634_c0_g1_i3_1	0	0	0	0	0	0	0	0	0	502530	159320	278330
TRINITY_DN10531_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	641490	298680	0
TRINITY_DN2332_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	235120	469460	235350
TRINITY_DN17272_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	406940	329760	201070
TRINITY_DN6275_c0_g2_i2_1	0	0	0	0	0	0	0	0	0	0	356550	572600
TRINITY_DN7918_c1_g1_i1_2	0	0	0	0	0	0	0	0	0	412890	289290	226930
TRINITY_DN10401_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	397070	256070	274600
TRINITY_DN6828_c0_g1_i1_3	119220	132950	94016	304570	0	0	0	0	0	276290	0	0
TRINITY_DN3006_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	346410	348800	229800
TRINITY_DN11284_c0_g1_i1_2	0	0	0	255330	277890	192080	0	0	0	0	198690	0
TRINITY_DN7192_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	395380	314600	211220
TRINITY_DN8534_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	397890	358270	158630
TRINITY_DN7045_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	615880	0	298840
TRINITY_DN7890_c0_g1_i3_3	0	0	0	0	0	0	0	0	0	0	0	913650
TRINITY_DN11617_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	600560	211140	101850
TRINITY_DN15269_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	372700	317320	222130
TRINITY_DN10161_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	478090	0	433710

TRINITY_DN819_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	626020	285150	0
TRINITY_DN13462_c0_g1_i1_3	287740	0	52862	0	0	373810	0	0	0	196110	0	0
TRINITY_DN4339_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	638510	0	271960
TRINITY_DN19938_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	905870	0
TRINITY_DN10594_c0_g1_i4_3	0	0	0	0	0	0	0	0	0	644820	257840	0
TRINITY_DN7751_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	365120	252410	283620
TRINITY_DN9327_c0_g1_i3_2	0	0	0	0	0	0	0	0	0	605070	109540	185600
TRINITY_DN8047_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	395170	389900	112150
TRINITY_DN10285_c0_g1_i1_1	0	0	0	0	0	0	0	393720	503060	0	0	0
TRINITY_DN8681_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	252120	641010	0
TRINITY_DN5586_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	750920	142020	0
TRINITY_DN2976_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	441300	0	449540
TRINITY_DN7053_c1_g1_i1_1	0	0	0	0	0	0	0	0	0	283120	390220	216340
TRINITY_DN9308_c0_g2_i1_6	0	160550	171890	0	215440	0	0	336560	0	0	0	0
TRINITY_DN7166_c0_g1_i1_1	126700	116060	88894	302450	249270	0	0	0	0	0	0	0
TRINITY_DN17861_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	343480	279560	257960
TRINITY_DN23265_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	335750	292450	249960
TRINITY_DN11443_c1_g1_i3_3	0	0	0	0	0	0	0	0	0	589590	150140	136410
TRINITY_DN9627_c0_g2_i1_1	0	135350	180260	0	0	0	0	0	0	373620	185050	0
TRINITY_DN20236_c0_g1_i1_5	162580	379000	331020	0	0	0	0	0	0	0	0	0
TRINITY_DN12747_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	773120	98040	0
TRINITY_DN4648_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	502580	0	368320
TRINITY_DN396_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	462090	0	408050
TRINITY_DN3770_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	495470	202200	169840
TRINITY_DN7965_c1_g1_i1_2	0	0	0	0	131820	0	0	0	0	416760	0	318900
TRINITY_DN5625_c0_g2_i1_1	0	0	0	0	379630	0	0	0	0	57847	221660	208280
TRINITY_DN9598_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	431210	433040	0
TRINITY_DN6936_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	484520	0	379450
TRINITY_DN22611_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	470750	205380	187370
TRINITY_DN4497_c1_g1_i1_1	0	0	0	0	0	0	0	0	0	0	463990	396050
TRINITY_DN16255_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	340610	290930	226820
TRINITY_DN3029_c0_g2_i1_3	193160	0	0	338380	0	0	0	0	0	326690	0	0
TRINITY_DN7010_c0_g2_i2_5	0	0	0	0	0	0	0	0	0	0	0	853480

TRINITY_DN8504_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	508830	121720	221760
TRINITY_DN3130_c0_g2_i2_1	0	0	0	0	198780	192310	0	0	0	248390	0	212540
TRINITY_DN13283_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	308220	0	542320
TRINITY_DN3329_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	435640	413480	0
TRINITY_DN10602_c1_g1_i2_3	0	0	0	0	0	0	0	0	0	382140	183600	282300
TRINITY_DN5356_c0_g1_i1_3	0	0	0	0	846490	0	0	0	0	0	0	0
TRINITY_DN8024_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	845750
TRINITY_DN9300_c0_g1_i1_5	0	0	0	142060	208650	0	313160	0	0	102270	0	79055
TRINITY_DN9177_c0_g3_i1_3	0	0	0	0	0	0	0	0	0	394320	239530	210110
TRINITY_DN14061_c0_g1_i1_4	0	0	0	0	0	0	0	802990	0	0	39710	0
TRINITY_DN8441_c0_g2_i2_3	108240	173090	288650	0	0	0	0	0	0	159290	0	105220
TRINITY_DN7456_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	420300	296770	116500
TRINITY_DN4946_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	249570	411330	168790
TRINITY_DN18912_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	476940	351300	0
TRINITY_DN12766_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	485530	115410	227280
TRINITY_DN4468_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	496200	169600	156760
TRINITY_DN12470_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	634410	187380
TRINITY_DN10609_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	211660	437100	170470
TRINITY_DN11550_c0_g1_i3_3	0	0	0	0	0	0	0	0	0	137870	356350	324260
TRINITY_DN18034_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	472770	0	342590
TRINITY_DN10769_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	287590	268550	258960
TRINITY_DN11604_c0_g1_i8_1	0	0	0	0	0	693680	0	0	0	0	0	120800
TRINITY_DN11302_c0_g1_i2_1	0	22468	0	0	0	0	0	0	0	589280	113250	88900
TRINITY_DN12632_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	544830	268800	0
TRINITY_DN9378_c0_g1_i4_2	0	0	0	0	0	0	0	0	0	421940	388520	0
TRINITY_DN9423_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	400480	408140	0
TRINITY_DN7649_c0_g1_i2_4	0	0	0	0	0	0	0	0	0	302500	262830	240200
TRINITY_DN18448_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	310380	244490	250200
TRINITY_DN11658_c0_g1_i3_3	0	0	0	0	0	0	0	0	0	478090	114100	211780
TRINITY_DN18880_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	116870	0	687000
TRINITY_DN10400_c0_g1_i3_1	0	0	0	0	0	0	0	0	0	110130	253350	439910
TRINITY_DN1374_c0_g1_i1_1	0	0	0	0	700380	0	0	0	0	0	0	102820
TRINITY_DN3233_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	301720	104140	397190

TRINITY_DN16037_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	468540	331530	0
TRINITY_DN4496_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	155860	642090	0
TRINITY_DN3498_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	621490	0	175440
TRINITY_DN8015_c0_g2_i1_1	136380	99125	64045	0	132180	0	0	0	0	365050	0	0
TRINITY_DN8457_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	327270	262120	205330
TRINITY_DN8936_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	415330	0	376870
TRINITY_DN4836_c0_g2_i2_1	0	0	0	0	0	0	0	0	0	317960	264660	209090
TRINITY_DN4305_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	448870	341380	0
TRINITY_DN912_c0_g1_i1_3	24884	357960	407200	0	0	0	0	0	0	0	0	0
TRINITY_DN2769_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	315260	234600	238030
TRINITY_DN7152_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	220200	163890	403760
TRINITY_DN7966_c1_g1_i1_1	0	0	0	0	0	0	0	0	0	517770	0	269220
TRINITY_DN4959_c0_g1_i1_6	785250	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN11436_c0_g1_i3_2	0	0	0	0	0	0	0	0	0	364680	418510	0
TRINITY_DN6999_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	187730	409530	185040
TRINITY_DN19644_c0_g1_i1_5	389480	0	392250	0	0	0	0	0	0	0	0	0
TRINITY_DN12673_c0_g1_i1_2	41591	0	0	374170	0	365610	0	0	0	0	0	0
TRINITY_DN10039_c0_g1_i2_2	0	0	0	0	0	63952	0	0	0	464260	248760	0
TRINITY_DN6311_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	117240	658190
TRINITY_DN19028_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	775260	0	0
TRINITY_DN10956_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	274010	0	499480
TRINITY_DN10484_c2_g1_i1_1	0	379750	0	0	0	0	0	0	0	0	393380	0
TRINITY_DN17185_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	314120	232180	226820
TRINITY_DN11454_c0_g1_i2_6	0	0	0	0	0	0	0	0	0	241220	530870	0
TRINITY_DN588_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	435510	0	336250
TRINITY_DN12701_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	452940	0	316360
TRINITY_DN7373_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	333560	0	435090
TRINITY_DN11305_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	282510	297750	187870
TRINITY_DN5684_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	188280	417880	159590
TRINITY_DN864_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	270670	129010	362960
TRINITY_DN4602_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	264700	228970	268320
TRINITY_DN10884_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	429970	329260	0
TRINITY_DN14631_c0_g1_i1_2	0	0	0	0	0	0	758620	0	0	0	0	0

TRINITY_DN10399_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	185870	166980	402740
TRINITY_DN11619_c0_g2_i6_1	0	0	0	0	0	0	0	0	0	461930	0	292960
TRINITY_DN5247_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	367870	224560	160920
TRINITY_DN2861_c0_g1_i1_2	0	0	0	0	0	0	0	514770	0	125860	112410	0
TRINITY_DN6453_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	409640	343210
TRINITY_DN13293_c0_g1_i1_6	0	0	0	0	0	0	294560	0	0	0	255810	197430
TRINITY_DN5843_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	414830	0	332830
TRINITY_DN3985_c0_g1_i1_5	0	0	0	218960	0	0	0	0	0	212600	315540	0
TRINITY_DN5098_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	483800	124770	135660
TRINITY_DN6975_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	236720	318580	185850
TRINITY_DN3955_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	330400	215570	187680
TRINITY_DN21162_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	313610	215650	201630
TRINITY_DN13980_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	280650	228090	218050
TRINITY_DN6436_c0_g2_i1_3	0	0	0	191220	183200	139170	0	0	0	211300	0	0
TRINITY_DN7382_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	218610	261270	244930
TRINITY_DN8895_c0_g1_i3_1	0	0	0	0	0	0	0	0	0	0	539100	185710
TRINITY_DN11523_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	427120	296820
TRINITY_DN6472_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	365040	0	357360
TRINITY_DN8927_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	381190	207100	133100
TRINITY_DN22235_c0_g1_i1_2	110130	179650	0	0	0	428560	0	0	0	0	0	0
TRINITY_DN22096_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	265190	228800	223850
TRINITY_DN10384_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	403860	312700
TRINITY_DN12671_c0_g1_i1_1	0	0	0	0	0	72786	0	0	0	236130	216410	190180
TRINITY_DN15659_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	421190	291540	0
TRINITY_DN3596_c0_g1_i1_4	0	0	0	0	0	91277	0	0	620020	0	0	0
TRINITY_DN8121_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	262480	227520	220020
TRINITY_DN20264_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	266600	227400	215010
TRINITY_DN18042_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	439300	0	269010
TRINITY_DN18961_c0_g1_i1_1	0	0	0	0	197000	506690	0	0	0	0	0	0
TRINITY_DN3104_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	225870	328400	149400
TRINITY_DN17865_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	416080	287590	0
TRINITY_DN11260_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	284400	277040	141300
TRINITY_DN6677_c0_g2_i1_6	88118	109300	0	0	165410	339780	0	0	0	0	0	0

TRINITY_DN14239_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	265600	198030	235790
TRINITY_DN12081_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	464780	153480	81123
TRINITY_DN18664_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	458170	240050	0
TRINITY_DN3353_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	253860	269030	175080
TRINITY_DN13649_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	253880	200400	243510
TRINITY_DN21861_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	262040	238520	196620
TRINITY_DN22107_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	696350	0	0
TRINITY_DN19998_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	274170	0	418790
TRINITY_DN4490_c0_g2_i2_2	0	0	0	0	0	0	0	0	0	277680	220270	194050
TRINITY_DN22424_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	331360	212440	147360
TRINITY_DN1144_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	365640	318270	0
TRINITY_DN4661_c0_g1_i3_3	0	0	0	0	0	0	0	0	0	312630	112630	256850
TRINITY_DN3820_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	463220	161280	55711
TRINITY_DN10264_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	402090	274300
TRINITY_DN8158_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	263820	199340	213180
TRINITY_DN9206_c0_g2_i1_1	222550	104950	52400	0	0	0	0	0	0	0	176740	118790
TRINITY_DN9226_c0_g1_i2_3	0	0	0	119000	134800	0	0	0	0	144900	148740	126130
TRINITY_DN585_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	381120	0	292160
TRINITY_DN21456_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	272580	191380	206420
TRINITY_DN5447_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	334420	184760	148730
TRINITY_DN23101_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	355690	311010	0
TRINITY_DN1220_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	66618	430500	169040
TRINITY_DN13227_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	391080	0	274450
TRINITY_DN5512_c0_g3_i1_3	0	0	0	339700	324620	0	0	0	0	0	0	0
TRINITY_DN4033_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	399070	0	265020
TRINITY_DN4640_c0_g1_i1_2	86956	84524	101120	0	0	0	0	0	0	390080	0	0
TRINITY_DN5850_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	277160	198310	186810
TRINITY_DN11339_c0_g1_i3_1	0	0	0	0	0	0	0	0	0	273300	201940	186380
TRINITY_DN2739_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	368430	0	292490
TRINITY_DN6721_c1_g1_i1_1	0	0	0	0	0	0	0	0	0	660830	0	0
TRINITY_DN7299_c0_g1_i1_1	0	0	128130	529920	0	0	0	0	0	0	0	0
TRINITY_DN2661_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	296560	227640	133150
TRINITY_DN7083_c0_g2_i2_1	0	0	0	0	0	0	0	0	0	309030	0	346630

TRINITY_DN18425_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	376060	0	278370
TRINITY_DN11416_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	266490	162620	223820
TRINITY_DN9924_c0_g1_i1_2	37526	0	0	0	0	0	0	0	527470	85956	0	0
TRINITY_DN8093_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	409650	240970
TRINITY_DN766_c0_g1_i1_2	64404	83323	107380	223550	171140	0	0	0	0	0	0	0
TRINITY_DN10380_c0_g1_i2_1	0	0	0	0	0	0	0	526170	0	0	121020	0
TRINITY_DN2440_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	208820	0	438030
TRINITY_DN18420_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	331670	147980	167010
TRINITY_DN7383_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	328120	318220
TRINITY_DN14144_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	208800	190310	246800
TRINITY_DN16953_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	271620	187740	185500
TRINITY_DN10509_c0_g1_i1_3	136100	207920	210190	0	0	0	0	0	0	89219	0	0
TRINITY_DN7183_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	362540	280790	0
TRINITY_DN17895_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	469890	173090	0
TRINITY_DN9983_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	68948	239360	334600
TRINITY_DN1054_c0_g1_i1_1	0	101680	108220	193490	144820	92722	0	0	0	0	0	0
TRINITY_DN1267_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	249460	217410	173920
TRINITY_DN10960_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	228560	411610	0
TRINITY_DN20312_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	639520
TRINITY_DN18128_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	636540	0	0
TRINITY_DN8563_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	636000
TRINITY_DN6232_c0_g1_i3_2	0	0	0	0	0	0	0	0	0	236600	101630	297750
TRINITY_DN5437_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	153490	102260	378660
TRINITY_DN3837_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	153440	246720	231100
TRINITY_DN4426_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	286840	192510	151600
TRINITY_DN13216_c0_g1_i1_3	0	0	0	0	0	0	0	629830	0	0	0	0
TRINITY_DN8517_c0_g1_i3_3	0	0	0	0	0	0	0	0	0	208190	322470	94162
TRINITY_DN17094_c0_g1_i1_4	0	0	46284	0	366820	210780	0	0	0	0	0	0
TRINITY_DN20326_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	267750	0	355620
TRINITY_DN7535_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	328220	294680	0
TRINITY_DN7228_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	282540	149650	190650
TRINITY_DN16259_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	123170	499550	0
TRINITY_DN21689_c0_g1_i1_3	103090	106730	132390	0	278990	0	0	0	0	0	0	0

TRINITY_DN8651_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	0	0	620450
TRINITY_DN11262_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	222770	218830	177830
TRINITY_DN2292_c0_g3_i1_5	99270	123490	395900	0	0	0	0	0	0	0	0	0
TRINITY_DN12820_c0_g1_i1_2	0	0	0	0	0	131930	0	0	0	355710	130460	0
TRINITY_DN21154_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	200910	223680	192450
TRINITY_DN17026_c0_g1_i1_1	215150	0	0	0	0	0	401760	0	0	0	0	0
TRINITY_DN14578_c0_g1_i1_4	0	531780	0	0	84459	0	0	0	0	0	0	0
TRINITY_DN5368_c0_g1_i2_5	0	0	0	0	0	0	0	0	0	614960	0	0
TRINITY_DN17464_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	257150	356730	0
TRINITY_DN8742_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	225420	201480	186940
TRINITY_DN14137_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	191790	152060	268910
TRINITY_DN2434_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	322890	289120	0
TRINITY_DN10474_c1_g1_i1_2	0	0	0	0	0	0	0	0	0	461540	149860	0
TRINITY_DN12774_c0_g1_i1_1	0	0	0	0	0	0	0	0	611310	0	0	0
TRINITY_DN3904_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	67857	543430
TRINITY_DN19463_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	220520	199010	190010
TRINITY_DN8904_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	385400	0	223330
TRINITY_DN8767_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	248530	239600	120580
TRINITY_DN3578_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	598590
TRINITY_DN15270_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	309610	287980	0
TRINITY_DN1008_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	0	594040	0
TRINITY_DN13945_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	593070	0	0
TRINITY_DN7325_c0_g1_i1_1	0	0	0	0	0	138110	0	0	0	0	0	454910
TRINITY_DN11924_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	290830	106190	195050
TRINITY_DN10508_c0_g1_i3_5	0	62903	0	0	0	0	0	0	0	315150	213420	0
TRINITY_DN7011_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	204220	386960	0
TRINITY_DN3619_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	394820	194870
TRINITY_DN14686_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	585170
TRINITY_DN9581_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	421700	0	163190
TRINITY_DN9707_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	584680	0	0
TRINITY_DN8938_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	432270	150710	0
TRINITY_DN10825_c0_g1_i4_1	79766	0	0	0	0	0	0	0	0	187650	168220	146400
TRINITY_DN7033_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	192480	388670	0

TRINITY_DN10999_c0_g1_i5_2	0	0	0	0	0	0	0	0	0	179570	399550	0
TRINITY_DN3792_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	392060	0	186170
TRINITY_DN15541_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	578030	0	0
TRINITY_DN2393_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	434390	141040	0
TRINITY_DN10184_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	224280	351050	0
TRINITY_DN7705_c0_g1_i2_6	0	0	0	0	0	0	0	0	0	344620	93537	137140
TRINITY_DN7315_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	375430	0	198200
TRINITY_DN8439_c0_g1_i1_6	0	0	0	292250	0	0	0	0	0	135690	142990	0
TRINITY_DN3610_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	324630	0	245830
TRINITY_DN3307_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	568930	0	0
TRINITY_DN18256_c0_g1_i1_4	0	0	0	0	79385	181060	0	0	0	308110	0	0
TRINITY_DN11948_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	214230	187040	167010
TRINITY_DN5672_c0_g1_i1_6	0	266290	298280	0	0	0	0	0	0	0	0	0
TRINITY_DN138_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	465640	98276
TRINITY_DN10435_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	352220	211150	0
TRINITY_DN10493_c0_g1_i1_1	0	0	89624	0	0	0	0	0	51461	201680	0	219250
TRINITY_DN10290_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	226900	334150	0
TRINITY_DN12636_c0_g1_i1_3	0	0	0	0	0	90935	0	469520	0	0	0	0
TRINITY_DN14818_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	386330	174000	0
TRINITY_DN360_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	328970	127390	103720
TRINITY_DN7953_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	217350	340760	0
TRINITY_DN8751_c1_g1_i1_3	0	0	184570	0	0	0	372210	0	0	0	0	0
TRINITY_DN19806_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	555960	0	0
TRINITY_DN18164_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	308680	247270	0
TRINITY_DN7968_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	281090	272730
TRINITY_DN7925_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	291770	0	261660
TRINITY_DN8225_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	553400
TRINITY_DN7814_c0_g1_i1_2	0	0	0	0	0	0	337000	0	0	214450	0	0
TRINITY_DN21393_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	166940	148080	236360
TRINITY_DN20157_c0_g1_i1_3	0	0	0	383330	0	167640	0	0	0	0	0	0
TRINITY_DN4739_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	550270	0	0
TRINITY_DN6504_c0_g1_i1_3	0	351010	0	198320	0	0	0	0	0	0	0	0
TRINITY_DN9930_c0_g1_i3_4	258100	0	0	0	290900	0	0	0	0	0	0	0

TRINITY_DN11687_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	162300	385880
TRINITY_DN968_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	277110	270310
TRINITY_DN8156_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	539770	0	0
TRINITY_DN9403_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	0	241550	297900
TRINITY_DN10308_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	537420	0	0
TRINITY_DN5427_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	536700	0	0
TRINITY_DN10971_c0_g1_i2_2	0	0	0	0	0	0	194640	0	0	98001	128240	115320
TRINITY_DN21130_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	460290	0	75216
TRINITY_DN7507_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	202520	165250	167110
TRINITY_DN8691_c0_g1_i1_4	0	0	0	67762	0	0	0	0	0	279250	0	187780
TRINITY_DN13949_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	0	336200	198330
TRINITY_DN17228_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	294900	0	239300
TRINITY_DN15289_c0_g1_i1_4	69817	47632	0	0	99574	0	314870	0	0	0	0	0
TRINITY_DN3649_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	293880	0	237410
TRINITY_DN3740_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	294490	0	236430
TRINITY_DN18927_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	231270	299530	0
TRINITY_DN8933_c1_g1_i1_2	0	0	0	0	0	0	0	0	0	259700	0	269850
TRINITY_DN16700_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	529390
TRINITY_DN709_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	106180	422500	0
TRINITY_DN813_c0_g1_i1_3	0	0	0	0	526990	0	0	0	0	0	0	0
TRINITY_DN20089_c0_g1_i1_1	234120	0	147420	144980	0	0	0	0	0	0	0	0
TRINITY_DN19940_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	199780	132690	193020
TRINITY_DN16604_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	525080	0	0
TRINITY_DN9343_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	267990	131290	124370
TRINITY_DN8561_c0_g1_i4_1	0	0	0	0	0	0	0	0	0	161240	84491	276470
TRINITY_DN21803_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	257260	118070	145560
TRINITY_DN4286_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	148930	255950	115890
TRINITY_DN5644_c1_g3_i1_6	0	0	0	0	518930	0	0	0	0	0	0	0
TRINITY_DN11599_c0_g1_i3_2	0	54170	68821	0	394940	0	0	0	0	0	0	0
TRINITY_DN17497_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	400700	0	116790
TRINITY_DN3550_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	418620	0	98199
TRINITY_DN4310_c0_g1_i1_1	167420	183970	163420	0	0	0	0	0	0	0	0	0
TRINITY_DN21144_c0_g1_i1_4	0	51041	0	0	0	0	0	0	0	463140	0	0

TRINITY_DN23569_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	203870	144630	165510
TRINITY_DN2786_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	287410	225150	0
TRINITY_DN5005_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	153810	241080	117620
TRINITY_DN5974_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	368740	143580
TRINITY_DN6400_c0_g1_i4_1	0	0	0	0	0	0	0	0	0	305480	204880	0
TRINITY_DN11632_c0_g1_i2_5	0	0	0	0	154330	113640	0	0	0	0	124650	116900
TRINITY_DN17813_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	304620	0	204250
TRINITY_DN17235_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	186350	166890	155470
TRINITY_DN6926_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	150210	259600	98889
TRINITY_DN17803_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	408000	98568	0
TRINITY_DN2011_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	339410	0	166680
TRINITY_DN8075_c0_g1_i4_2	0	0	0	0	0	0	0	0	0	197010	0	306840
TRINITY_DN2579_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	288870	0	213360
TRINITY_DN19468_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	283370	0	218190
TRINITY_DN3475_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	202430	0	296780
TRINITY_DN4140_c0_g1_i1_5	0	0	0	0	0	0	499110	0	0	0	0	0
TRINITY_DN545_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	498630
TRINITY_DN6995_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	207680	146070	144780
TRINITY_DN9117_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	349290	0	148090
TRINITY_DN14629_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	267600	229100	0
TRINITY_DN8532_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	496370	0
TRINITY_DN9825_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	136400	264780	91062
TRINITY_DN2131_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	273260	0	218870
TRINITY_DN2699_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	206990	163150	120250
TRINITY_DN10766_c0_g1_i8_3	0	489370	0	0	0	0	0	0	0	0	0	0
TRINITY_DN6812_c0_g1_i7_1	0	0	0	0	0	0	0	0	0	149220	0	339750
TRINITY_DN19649_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	134870	353710
TRINITY_DN10388_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	122010	194340	170750
TRINITY_DN8750_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	484480	0	0
TRINITY_DN17662_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	0	263330	221100
TRINITY_DN5306_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	151030	161000	171860
TRINITY_DN4670_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	302990	176780	0
TRINITY_DN9078_c0_g1_i2_3	0	0	0	0	142800	336370	0	0	0	0	0	0

TRINITY_DN8091_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	239750	79744	158450
TRINITY_DN12406_c0_g1_i1_2	0	0	0	245160	0	232630	0	0	0	0	0	0
TRINITY_DN17368_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	275150	0	202590
TRINITY_DN9727_c0_g1_i1_3	229760	0	91926	0	0	0	0	0	0	0	153590	0
TRINITY_DN17339_c0_g1_i1_3	38093	0	436710	0	0	0	0	0	0	0	0	0
TRINITY_DN18284_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	230980	243560	0
TRINITY_DN10226_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	474080	0
TRINITY_DN8973_c0_g1_i1_1	243340	114610	115910	0	0	0	0	0	0	0	0	0
TRINITY_DN16264_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	473780	0
TRINITY_DN12122_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	145830	119690	207960
TRINITY_DN4741_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	367440	104760
TRINITY_DN20857_c0_g1_i1_2	0	0	0	0	0	0	0	470100	0	0	0	0
TRINITY_DN13782_c0_g1_i1_1	186970	0	0	0	0	157380	0	0	0	0	0	125040
TRINITY_DN4532_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	203850	152310	112940
TRINITY_DN39_c0_g2_i1_6	106490	124710	121250	0	0	116140	0	0	0	0	0	0
TRINITY_DN20415_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	252630	214340	0
TRINITY_DN9710_c1_g1_i1_6	0	0	0	0	0	0	0	0	0	320670	0	143680
TRINITY_DN371_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	257640	206200	0
TRINITY_DN20208_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	174450	147860	139880
TRINITY_DN11629_c0_g1_i3_3	116630	0	153670	0	190030	0	0	0	0	0	0	0
TRINITY_DN12689_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	248150	112020	99706
TRINITY_DN8223_c0_g1_i4_6	0	0	0	0	0	0	0	0	0	0	0	459680
TRINITY_DN20465_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	261010	197920
TRINITY_DN7564_c1_g2_i2_4	0	0	0	0	0	0	0	0	0	0	209460	249270
TRINITY_DN10977_c0_g2_i3_5	0	0	0	0	0	0	0	0	0	0	293510	163890
TRINITY_DN23633_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	456270	0	0
TRINITY_DN6603_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	291280	164260	0
TRINITY_DN9814_c0_g1_i2_2	0	0	0	0	0	0	0	0	335950	0	117060	0
TRINITY_DN7007_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	166860	148600	137320
TRINITY_DN14463_c0_g1_i1_1	0	0	0	0	0	0	0	0	451970	0	0	0
TRINITY_DN6833_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	234430	217490
TRINITY_DN839_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	161650	109860	180020
TRINITY_DN20539_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	272540	0	178990

TRINITY_DN3431_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	451190	0	0
TRINITY_DN11964_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	450420	0	0
TRINITY_DN4866_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	150350	91639	207410
TRINITY_DN16866_c0_g1_i1_6	67939	67335	110560	0	203100	0	0	0	0	0	0	0
TRINITY_DN13956_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	214370	233860
TRINITY_DN4399_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	234340	213420
TRINITY_DN10671_c0_g1_i5_2	0	0	0	0	0	0	0	0	0	180150	129750	137440
TRINITY_DN3450_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	136530	0	306080
TRINITY_DN19533_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	146180	91247	205170
TRINITY_DN14184_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	198500	71891	171030
TRINITY_DN10011_c0_g2_i1_5	0	0	253600	0	0	0	0	186000	0	0	0	0
TRINITY_DN10051_c0_g1_i3_2	0	0	0	0	0	0	0	0	0	284090	154970	0
TRINITY_DN9084_c1_g1_i1_6	0	246220	192470	0	0	0	0	0	0	0	0	0
TRINITY_DN13392_c0_g1_i1_2	0	0	0	0	0	139950	0	0	0	298320	0	0
TRINITY_DN5114_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	245180	0	192780
TRINITY_DN18316_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	235220	201730	0
TRINITY_DN764_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	316100	0	119890
TRINITY_DN10979_c0_g1_i3_3	0	0	0	0	0	0	0	0	0	0	221550	212500
TRINITY_DN10800_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	145280	0	287780
TRINITY_DN14978_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	432850	0
TRINITY_DN6214_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	189980	95579	146820
TRINITY_DN14988_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	236320	195960	0
TRINITY_DN6278_c0_g1_i1_2	0	96853	0	114440	126970	0	0	0	0	0	92910	0
TRINITY_DN6964_c0_g1_i1_1	0	0	0	0	0	0	192110	0	0	130640	108290	0
TRINITY_DN3722_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	140570	0	290420
TRINITY_DN22328_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	185060	122960	119830
TRINITY_DN18052_c0_g2_i1_1	0	218370	208820	0	0	0	0	0	0	0	0	0
TRINITY_DN11467_c0_g1_i1_1	0	425580	0	0	0	0	0	0	0	0	0	0
TRINITY_DN15189_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	241600	0	183820
TRINITY_DN14289_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	223830	201190	0
TRINITY_DN1005_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	159220	138980	125260
TRINITY_DN3819_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	104200	318620	0
TRINITY_DN7943_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	202460	99083	119590

TRINITY_DN2112_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	227680	0	192890
TRINITY_DN10350_c1_g1_i4_2	0	0	0	0	0	0	0	0	0	241940	0	178140
TRINITY_DN6884_c1_g3_i1_2	0	0	0	0	0	0	0	0	0	230680	189040	0
TRINITY_DN12265_c0_g1_i1_2	0	0	61553	0	0	0	0	0	0	0	198800	159050
TRINITY_DN21124_c0_g1_i3_3	0	0	0	0	0	0	0	0	0	418810	0	0
TRINITY_DN9012_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	157720	0	260580
TRINITY_DN9946_c0_g2_i4_3	0	0	0	0	0	0	0	0	0	176350	111840	129580
TRINITY_DN5727_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	0	229610	185670
TRINITY_DN12393_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	167800	118340	127620
TRINITY_DN4111_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	169930	129210	112130
TRINITY_DN11057_c0_g8_i1_3	0	0	0	0	0	0	0	0	0	168950	105830	136040
TRINITY_DN2598_c0_g2_i1_3	0	0	0	0	0	0	410130	0	0	0	0	0
TRINITY_DN9900_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	136400	141260	132160
TRINITY_DN3402_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	409670	0
TRINITY_DN9871_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	147950	142210	119390
TRINITY_DN9274_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	162710	246120
TRINITY_DN20612_c0_g1_i1_1	47752	55424	53672	0	0	251930	0	0	0	0	0	0
TRINITY_DN21955_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	168810	239700	0
TRINITY_DN7460_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	261260	147040	0
TRINITY_DN6570_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	408140	0	0
TRINITY_DN12116_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	266750	0	140510
TRINITY_DN18165_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	406370	0
TRINITY_DN19285_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	283030	122050
TRINITY_DN4092_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	403610	0	0
TRINITY_DN4871_c0_g1_i1_3	0	26502	0	0	0	0	0	0	0	376800	0	0
TRINITY_DN23190_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	242910	0	159690
TRINITY_DN2267_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	243100	158500
TRINITY_DN12570_c0_g1_i1_4	0	0	0	400720	0	0	0	0	0	0	0	0
TRINITY_DN19686_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	262730	136420	0
TRINITY_DN15214_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	395520	0
TRINITY_DN18839_c0_g1_i1_6	0	0	0	243780	0	148680	0	0	0	0	0	0
TRINITY_DN12937_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	213510	0	178920
TRINITY_DN3038_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	222890	168160	0

TRINITY_DN3285_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	146300	116950	126480
TRINITY_DN4341_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	221680	167940	0
TRINITY_DN5664_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	268780	120710	0
TRINITY_DN3970_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	389210
TRINITY_DN12410_c0_g1_i1_6	0	0	45271	0	138050	0	0	0	0	0	0	205580
TRINITY_DN4354_c0_g1_i1_4	0	197010	0	101090	90119	0	0	0	0	0	0	0
TRINITY_DN9720_c0_g1_i6_2	0	0	0	0	0	0	0	386240	0	0	0	0
TRINITY_DN22980_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	215950	167890	0
TRINITY_DN9256_c0_g1_i4_1	0	0	0	0	0	0	0	0	0	187800	192590	0
TRINITY_DN8333_c0_g1_i1_3	0	95706	77065	0	207140	0	0	0	0	0	0	0
TRINITY_DN294_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	148880	110740	118830
TRINITY_DN8005_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	0	0	377860
TRINITY_DN17859_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	166090	91841	115350
TRINITY_DN1542_c0_g1_i1_6	63560	74776	102020	0	0	131460	0	0	0	0	0	0
TRINITY_DN7035_c1_g2_i1_3	156560	0	0	0	214310	0	0	0	0	0	0	0
TRINITY_DN19252_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	102820	167910	99617
TRINITY_DN1690_c0_g1_i2_5	0	0	0	0	0	0	0	0	0	0	0	370100
TRINITY_DN18166_c0_g1_i1_4	0	0	0	0	0	0	0	0	369840	0	0	0
TRINITY_DN9981_c1_g1_i1_3	0	0	0	0	0	92796	0	0	0	0	276550	0
TRINITY_DN8032_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	133120	90774	144820
TRINITY_DN10046_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	259620	0	108540
TRINITY_DN21517_c0_g1_i1_4	201180	0	0	0	165660	0	0	0	0	0	0	0
TRINITY_DN316_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	187070	177930	0
TRINITY_DN8057_c0_g1_i2_5	0	0	0	0	0	0	0	0	0	220690	143000	0
TRINITY_DN22718_c0_g1_i1_2	0	165470	197160	0	0	0	0	0	0	0	0	0
TRINITY_DN5217_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	145570	131620	85177
TRINITY_DN8159_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	237130	121280	0
TRINITY_DN2797_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	0	175860	182200
TRINITY_DN3030_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	144100	102680	107380
TRINITY_DN16052_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	98812	65319	188930
TRINITY_DN8771_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	352490	0	0
TRINITY_DN5711_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	196460	0	155990
TRINITY_DN11595_c1_g1_i1_3	0	0	0	0	0	0	0	0	0	160340	135820	56271

TRINITY_DN18730_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	133720	111680	106430
TRINITY_DN5685_c0_g1_i4_5	67474	35270	45522	0	0	0	0	0	0	203520	0	0
TRINITY_DN11028_c0_g3_i1_3	349950	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN5255_c1_g1_i1_4	0	0	0	0	0	0	0	0	0	189590	159740	0
TRINITY_DN10013_c0_g1_i4_2	0	0	0	0	0	0	0	0	0	209590	0	138500
TRINITY_DN6316_c0_g1_i4_3	0	0	0	0	0	0	0	0	0	145300	80208	120850
TRINITY_DN7363_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	91553	174220	80240
TRINITY_DN18596_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	185410	0	159800
TRINITY_DN17114_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	177750	166260
TRINITY_DN19946_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	152260	191290
TRINITY_DN8995_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	106700	151770	84822
TRINITY_DN9650_c0_g1_i1_1	0	0	0	0	0	343080	0	0	0	0	0	0
TRINITY_DN7338_c0_g3_i1_2	115320	114810	112340	0	0	0	0	0	0	0	0	0
TRINITY_DN4072_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	171360	86722	82940
TRINITY_DN2062_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	339970	0
TRINITY_DN5791_c1_g1_i1_2	0	0	0	0	0	0	0	0	0	339810	0	0
TRINITY_DN6320_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	208790	0	129650
TRINITY_DN6069_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	184810	0	153370
TRINITY_DN18724_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	214930	0	122180
TRINITY_DN4227_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	142250	94900	99168
TRINITY_DN18944_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	265520	70302
TRINITY_DN9604_c0_g1_i3_3	0	0	0	0	0	0	0	0	0	112940	123580	97979
TRINITY_DN19600_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	155160	176060
TRINITY_DN2329_c0_g1_i2_6	0	0	0	0	0	0	0	0	0	194520	0	136180
TRINITY_DN827_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	169040	161640
TRINITY_DN8908_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	133980	0	196180
TRINITY_DN18109_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	174960	155040	0
TRINITY_DN11206_c0_g1_i2_4	0	0	0	0	0	0	0	0	0	170620	158350	0
TRINITY_DN18626_c1_g2_i1_2	0	0	0	0	0	0	0	0	0	0	0	327420
TRINITY_DN21756_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	327420	0	0
TRINITY_DN2355_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	115570	101630	110070
TRINITY_DN2509_c0_g1_i1_1	158680	0	0	0	0	168110	0	0	0	0	0	0
TRINITY_DN19715_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	236270	0	90244

TRINITY_DN4748_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	176630	148070
TRINITY_DN21521_c1_g1_i1_3	0	0	0	0	0	0	0	0	0	127090	104410	92175
TRINITY_DN5242_c0_g3_i1_6	0	0	0	0	0	0	0	0	0	172740	150880	0
TRINITY_DN19260_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	101220	115420	106870
TRINITY_DN3078_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	117230	97865	107480
TRINITY_DN10865_c0_g2_i2_2	0	0	0	182530	0	140020	0	0	0	0	0	0
TRINITY_DN17892_c1_g1_i1_5	0	0	0	0	0	0	0	0	0	196080	125750	0
TRINITY_DN2656_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	135420	108590	77746
TRINITY_DN22169_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	190600	0	131060
TRINITY_DN10693_c1_g1_i1_3	0	0	0	0	0	0	0	0	0	123040	102870	93309
TRINITY_DN7588_c0_g1_i2_5	0	0	0	0	0	0	0	0	0	0	318320	0
TRINITY_DN1809_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	150560	0	166400
TRINITY_DN10089_c0_g3_i1_3	0	0	0	0	0	0	0	0	0	109760	94940	111390
TRINITY_DN2082_c1_g1_i1_3	0	0	0	0	0	0	0	0	0	170890	0	145140
TRINITY_DN238_c0_g1_i1_3	86300	123950	104600	0	0	0	0	0	0	0	0	0
TRINITY_DN5724_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	0	206190	108400
TRINITY_DN21573_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	196190	0	118230
TRINITY_DN11569_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	0	0	313530
TRINITY_DN5094_c0_g1_i1_4	0	0	0	0	0	313140	0	0	0	0	0	0
TRINITY_DN19637_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	209060	102620
TRINITY_DN4599_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	173450	138190	0
TRINITY_DN11898_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	311560	0	0
TRINITY_DN13648_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	179860	0	131660
TRINITY_DN22384_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	141050	74975	95274
TRINITY_DN8593_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	120230	188440	0
TRINITY_DN6624_c0_g2_i2_2	0	0	0	0	0	0	0	0	0	124980	182450	0
TRINITY_DN8264_c0_g1_i2_1	0	0	0	0	73207	0	0	0	0	0	234090	0
TRINITY_DN7248_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	159700	146280
TRINITY_DN19832_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	122700	182680	0
TRINITY_DN23704_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	304990
TRINITY_DN15338_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	175660	0	126930
TRINITY_DN9948_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	170790	130870	0
TRINITY_DN13388_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	163570	137020	0

TRINITY_DN5559_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	108190	98744	92953
TRINITY_DN17697_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	159410	0	140160
TRINITY_DN5154_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	113270	103010	82676
TRINITY_DN20546_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	298880
TRINITY_DN6573_c0_g1_i1_4	0	0	0	0	0	75715	0	0	0	154840	0	68248
TRINITY_DN3293_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	129460	67513	100810
TRINITY_DN9459_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	161910	0	135710
TRINITY_DN4865_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	203850	0	93012
TRINITY_DN3689_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	294050	0	0
TRINITY_DN2686_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	184750	108830	0
TRINITY_DN4162_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	98720	0	194640
TRINITY_DN14842_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	293000	0	0
TRINITY_DN1392_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	102750	99190	90388
TRINITY_DN3303_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	102440	92177	95231
TRINITY_DN5303_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	151570	137950
TRINITY_DN3626_c0_g3_i1_6	38658	42672	55257	0	0	151940	0	0	0	0	0	0
TRINITY_DN12852_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	287790	0
TRINITY_DN16500_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	286620	0	0
TRINITY_DN13231_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	138230	148140	0
TRINITY_DN9164_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	165560	119930	0
TRINITY_DN6110_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	139950	0	143820
TRINITY_DN9679_c0_g2_i6_4	0	0	0	0	0	0	0	0	0	0	283160	0
TRINITY_DN185_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	142200	140800
TRINITY_DN16939_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	105890	108890	66633
TRINITY_DN10156_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	141440	139510	0
TRINITY_DN9970_c0_g1_i3_1	0	0	0	0	0	0	0	0	0	0	280720	0
TRINITY_DN11182_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	53681	226320
TRINITY_DN6813_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	55268	224650	0
TRINITY_DN18653_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	279390	0	0
TRINITY_DN17522_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	155300	123370	0
TRINITY_DN14413_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	165870	0	112600
TRINITY_DN5635_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	202590	75765	0
TRINITY_DN10294_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	0	102690	174790

TRINITY_DN19410_c0_g2_i1_2	0	157380	0	0	0	119430	0	0	0	0	0	0
TRINITY_DN3519_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	276780
TRINITY_DN10650_c0_g1_i3_2	0	0	0	0	0	0	0	0	0	0	0	275680
TRINITY_DN3798_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	126910	148460	0
TRINITY_DN2524_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	274900	0	0
TRINITY_DN14304_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	274830
TRINITY_DN10946_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	172280	102080	0
TRINITY_DN4824_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	274170	0	0
TRINITY_DN1455_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	274030	0	0
TRINITY_DN19943_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	137180	0	135820
TRINITY_DN7659_c0_g1_i2_1	96649	82657	93173	0	0	0	0	0	0	0	0	0
TRINITY_DN18303_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	143150	129150	0
TRINITY_DN7752_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	166560	0	103570
TRINITY_DN3113_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	145280	0	123780
TRINITY_DN13954_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	268730	0	0
TRINITY_DN9113_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	150050	0	118240
TRINITY_DN2642_c0_g1_i1_1	0	0	0	0	0	0	267580	0	0	0	0	0
TRINITY_DN9696_c0_g1_i1_5	0	0	82323	0	0	0	0	0	0	0	0	182950
TRINITY_DN2508_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	98750	82316	83833
TRINITY_DN8157_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	154920	0	109590
TRINITY_DN20773_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	263880	0	0
TRINITY_DN2427_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	261590	0
TRINITY_DN566_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	260650	0	0
TRINITY_DN1856_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	0	127930	132000
TRINITY_DN3611_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	0	259080	0
TRINITY_DN8137_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	259060	0	0
TRINITY_DN4839_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	0	257840	0
TRINITY_DN10092_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	155060	0	102680
TRINITY_DN8102_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	87702	92262	77584
TRINITY_DN2436_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	257530
TRINITY_DN9750_c0_g2_i3_3	0	0	0	0	0	0	0	0	0	257390	0	0
TRINITY_DN13772_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	93345	85320	77062
TRINITY_DN20973_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	145190	0	110400

TRINITY_DN13500_c0_g1_i1_1	0	0	0	0	255270	0	0	0	0	0	0	0
TRINITY_DN19696_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	140710	114190	0
TRINITY_DN18663_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	253490	0
TRINITY_DN10941_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	253020	0	0
TRINITY_DN205_c0_g2_i1_3	0	0	0	0	0	90272	0	0	0	162400	0	0
TRINITY_DN10620_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	98329	153660
TRINITY_DN12943_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	127830	0	122630
TRINITY_DN2735_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	249660	0
TRINITY_DN15045_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	249480	0	0
TRINITY_DN17024_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	247650
TRINITY_DN4004_c0_g1_i1_6	0	0	0	0	0	0	0	0	247420	0	0	0
TRINITY_DN12269_c0_g2_i1_2	0	32148	0	0	0	214780	0	0	0	0	0	0
TRINITY_DN9455_c0_g1_i1_6	246100	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN7173_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	0	245460	0
TRINITY_DN5388_c0_g2_i1_3	0	0	0	0	0	244770	0	0	0	0	0	0
TRINITY_DN10533_c0_g1_i4_1	0	0	0	0	0	0	0	0	0	0	140180	104210
TRINITY_DN15880_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	243590	0	0
TRINITY_DN21652_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	242970	0	0
TRINITY_DN22321_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	125680	0	117250
TRINITY_DN12098_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	0	0	242080
TRINITY_DN6146_c0_g1_i2_4	0	0	0	0	0	0	0	0	0	239520	0	0
TRINITY_DN8428_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	155130	0	84146
TRINITY_DN17847_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	130400	107820	0
TRINITY_DN4796_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	236650	0	0
TRINITY_DN5072_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	138270	97647	0
TRINITY_DN6088_c0_g1_i4_1	0	0	0	114210	0	121360	0	0	0	0	0	0
TRINITY_DN15797_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	234840	0	0
TRINITY_DN18297_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	234630	0	0
TRINITY_DN17041_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	233710	0
TRINITY_DN7113_c0_g1_i3_4	0	0	0	0	0	0	0	0	0	92285	39929	99714
TRINITY_DN12379_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	122890	107090	0
TRINITY_DN15487_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	121660	106720	0
TRINITY_DN3915_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	226400	0

TRINITY_DN11583_c1_g3_i2_2	0	0	0	0	0	0	0	0	0	125170	0	100150
TRINITY_DN11439_c0_g1_i3_4	0	0	0	0	0	0	0	0	0	0	123360	101870
TRINITY_DN7466_c0_g3_i1_3	0	0	0	0	0	0	0	0	0	123890	0	101040
TRINITY_DN11372_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	224010
TRINITY_DN2241_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	223950	0	0
TRINITY_DN2564_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	75112	145850	0
TRINITY_DN4503_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	219520	0	0
TRINITY_DN8115_c0_g1_i1_2	0	0	0	0	0	89883	0	0	0	128310	0	0
TRINITY_DN271_c0_g1_i1_6	0	0	0	85902	131920	0	0	0	0	0	0	0
TRINITY_DN12627_c0_g1_i1_5	131820	0	0	0	0	0	0	0	0	0	0	85218
TRINITY_DN6168_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	216490	0	0
TRINITY_DN15083_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	122290	94124	0
TRINITY_DN22088_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	113330	102580
TRINITY_DN10295_c0_g1_i4_2	0	0	0	0	0	0	0	0	0	0	212570	0
TRINITY_DN13908_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	212190	0	0
TRINITY_DN250_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	111370	100770	0
TRINITY_DN9708_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	212130
TRINITY_DN14410_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	210320	0
TRINITY_DN2548_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	123000	0	86845
TRINITY_DN6286_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	209400
TRINITY_DN17369_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	105860	102690	0
TRINITY_DN8472_c0_g1_i1_2	0	208410	0	0	0	0	0	0	0	0	0	0
TRINITY_DN4972_c0_g1_i4_1	0	0	0	0	0	0	0	0	0	93704	0	114290
TRINITY_DN9379_c0_g1_i3_2	0	92038	115730	0	0	0	0	0	0	0	0	0
TRINITY_DN23442_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	204830
TRINITY_DN20268_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	204140
TRINITY_DN2087_c1_g1_i1_3	0	0	0	0	0	0	0	0	0	96880	106840	0
TRINITY_DN9218_c0_g1_i7_3	0	0	0	0	0	0	0	0	0	117300	0	86420
TRINITY_DN12527_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	76169	65437	58467
TRINITY_DN22389_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	109890	0	90160
TRINITY_DN9732_c0_g1_i3_2	0	0	0	0	0	0	0	0	0	118430	81101	0
TRINITY_DN9091_c0_g1_i1_3	0	0	0	0	0	196180	0	0	0	0	0	0
TRINITY_DN1560_c0_g1_i1_1	0	0	0	0	0	196040	0	0	0	0	0	0

TRINITY_DN14904_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	195980	0
TRINITY_DN12383_c0_g1_i1_2	0	0	0	193910	0	0	0	0	0	0	0	0
TRINITY_DN5000_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	88912	104700	0
TRINITY_DN2849_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	193360	0	0
TRINITY_DN11583_c1_g1_i2_1	0	0	0	0	0	0	0	0	0	117140	75834	0
TRINITY_DN11555_c0_g1_i1_4	0	0	0	0	0	0	0	0	192860	0	0	0
TRINITY_DN11211_c0_g2_i4_2	0	0	0	0	0	0	0	0	0	192700	0	0
TRINITY_DN10288_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	191390	0	0
TRINITY_DN16723_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	190350
TRINITY_DN5420_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	189070	0	0
TRINITY_DN15186_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	99098	89949	0
TRINITY_DN6233_c0_g1_i4_1	0	0	0	0	0	0	0	0	0	188570	0	0
TRINITY_DN4088_c0_g1_i1_1	0	0	0	0	0	0	0	0	186850	0	0	0
TRINITY_DN1341_c0_g1_i2_3	0	0	0	186120	0	0	0	0	0	0	0	0
TRINITY_DN5675_c0_g1_i3_1	0	0	0	0	0	0	185220	0	0	0	0	0
TRINITY_DN5431_c0_g2_i1_2	0	0	0	0	0	0	184980	0	0	0	0	0
TRINITY_DN9005_c1_g1_i3_1	0	0	0	0	0	0	0	0	0	0	184170	0
TRINITY_DN22172_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	183980	0	0
TRINITY_DN5643_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	0	183550	0
TRINITY_DN18093_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	183450	0
TRINITY_DN8505_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	183060
TRINITY_DN3938_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	182610	0	0
TRINITY_DN11081_c0_g1_i2_3	0	0	0	0	0	0	0	182270	0	0	0	0
TRINITY_DN8657_c0_g1_i1_3	181090	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN18007_c0_g1_i1_2	97862	82970	0	0	0	0	0	0	0	0	0	0
TRINITY_DN11493_c0_g1_i3_3	0	0	0	179630	0	0	0	0	0	0	0	0
TRINITY_DN11659_c1_g1_i3_5	0	0	0	0	0	0	0	0	0	0	0	179170
TRINITY_DN11367_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	178270
TRINITY_DN14035_c0_g1_i1_1	0	0	0	0	0	0	177600	0	0	0	0	0
TRINITY_DN7672_c0_g2_i3_6	0	0	0	0	0	0	0	0	0	177370	0	0
TRINITY_DN4363_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	176940	0	0
TRINITY_DN9570_c0_g1_i2_6	0	0	0	0	0	0	0	0	0	0	176800	0
TRINITY_DN12047_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	108820	0	67655

TRINITY_DN8161_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	174830	0	0
TRINITY_DN9497_c1_g1_i1_5	0	0	0	0	0	0	0	0	0	0	173360	0
TRINITY_DN18064_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	173290	0
TRINITY_DN3901_c0_g1_i1_6	0	0	0	0	172890	0	0	0	0	0	0	0
TRINITY_DN9544_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	172740	0	0
TRINITY_DN5823_c2_g1_i1_1	0	0	0	0	0	0	0	0	0	0	172620	0
TRINITY_DN10520_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	172390	0
TRINITY_DN11739_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	171870	0	0
TRINITY_DN950_c0_g2_i1_5	0	0	0	0	97294	0	0	0	0	74308	0	0
TRINITY_DN1342_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	171510	0	0
TRINITY_DN10787_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	169960	0	0
TRINITY_DN15996_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	169410	0	0
TRINITY_DN13943_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	91199	0	77826
TRINITY_DN4307_c0_g2_i2_3	0	0	0	0	0	0	165930	0	0	0	0	0
TRINITY_DN13850_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	165510
TRINITY_DN22319_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	165470	0
TRINITY_DN19381_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	88218	0	75118
TRINITY_DN17549_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	163150	0
TRINITY_DN15080_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	0	161700	0
TRINITY_DN18817_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	161380	0	0
TRINITY_DN11009_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	161150	0	0
TRINITY_DN8994_c0_g2_i2_3	0	0	0	0	0	0	0	0	0	100380	59687	0
TRINITY_DN17962_c0_g1_i1_6	49172	57343	53499	0	0	0	0	0	0	0	0	0
TRINITY_DN7296_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	159880	0	0
TRINITY_DN17826_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	74583	0	83182
TRINITY_DN12326_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	90756	0	64507
TRINITY_DN2620_c0_g2_i2_2	0	0	0	0	0	0	0	0	0	154360	0	0
TRINITY_DN2361_c0_g1_i1_2	0	0	0	0	0	0	0	0	153820	0	0	0
TRINITY_DN1411_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	153470	0
TRINITY_DN11963_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	152790	0
TRINITY_DN9986_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	0	0	152760
TRINITY_DN3850_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	152710
TRINITY_DN13162_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	152520	0	0

TRINITY_DN6999_c1_g1_i1_1	0	0	0	0	0	0	0	0	0	152260	0	0
TRINITY_DN6417_c0_g2_i1_1	152160	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN11852_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	150530	0
TRINITY_DN3994_c0_g1_i1_6	0	0	0	0	0	0	0	0	150380	0	0	0
TRINITY_DN10757_c0_g1_i6_3	99839	0	0	0	0	49906	0	0	0	0	0	0
TRINITY_DN858_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	0	149230	0
TRINITY_DN23297_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	149170
TRINITY_DN19876_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	149110	0	0
TRINITY_DN11014_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	148070
TRINITY_DN13986_c1_g1_i1_2	147640	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN4916_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	147320	0	0
TRINITY_DN13205_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	146740
TRINITY_DN2844_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	145910	0	0
TRINITY_DN19026_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	87474	58024
TRINITY_DN10596_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	83171	61978	0
TRINITY_DN11089_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	143970
TRINITY_DN1625_c0_g1_i1_1	0	0	0	0	0	142510	0	0	0	0	0	0
TRINITY_DN4295_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	0	0	142230
TRINITY_DN21571_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	142090	0
TRINITY_DN9775_c0_g1_i1_1	0	70066	0	0	0	71745	0	0	0	0	0	0
TRINITY_DN17721_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	141720	0	0
TRINITY_DN11860_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	141350	0	0
TRINITY_DN19531_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	139700	0	0
TRINITY_DN194_c0_g2_i1_1	38795	35207	63900	0	0	0	0	0	0	0	0	0
TRINITY_DN426_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	137640	0
TRINITY_DN23380_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	137500
TRINITY_DN7432_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	137130
TRINITY_DN9824_c0_g2_i1_2	0	0	135680	0	0	0	0	0	0	0	0	0
TRINITY_DN14943_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	74766	57572	0
TRINITY_DN4390_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	0	129810	0
TRINITY_DN3895_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	129770	0	0
TRINITY_DN2101_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	128650	0	0
TRINITY_DN22364_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	127870	0

TRINITY_DN3021_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	0	73191	53014
TRINITY_DN1919_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	124730	0	0
TRINITY_DN11220_c1_g3_i1_3	0	0	0	0	0	0	0	0	0	0	124210	0
TRINITY_DN8579_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	62647	61399	0
TRINITY_DN7867_c0_g1_i4_3	0	0	0	0	0	0	0	0	0	0	0	123480
TRINITY_DN11046_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	0	120050	0
TRINITY_DN8640_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	118570	0
TRINITY_DN2390_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	0	118510	0
TRINITY_DN12575_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	118210	0	0
TRINITY_DN10417_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	0	0	116100
TRINITY_DN17426_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	113910
TRINITY_DN9926_c0_g1_i2_5	0	0	0	0	0	0	0	0	0	113230	0	0
TRINITY_DN2534_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	111930
TRINITY_DN2915_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	111200	0	0
TRINITY_DN11633_c0_g1_i3_5	0	0	0	110020	0	0	0	0	0	0	0	0
TRINITY_DN15398_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	109750	0	0
TRINITY_DN5905_c0_g1_i1_3	0	0	0	0	108260	0	0	0	0	0	0	0
TRINITY_DN9808_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	107160
TRINITY_DN10830_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	107130	0
TRINITY_DN5571_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	106630	0	0
TRINITY_DN14099_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	105980	0	0
TRINITY_DN1513_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	105860
TRINITY_DN9703_c0_g1_i1_1	0	0	0	0	0	105710	0	0	0	0	0	0
TRINITY_DN30_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	105560	0	0
TRINITY_DN4271_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	103610	0	0
TRINITY_DN9637_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	103220	0	0
TRINITY_DN14624_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	102900	0	0
TRINITY_DN7843_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	0	101750	0
TRINITY_DN14064_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	101300	0	0
TRINITY_DN19958_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	101160
TRINITY_DN12317_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	0	100510	0
TRINITY_DN106_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	98996	0	0
TRINITY_DN10121_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	0	98545	0

TRINITY_DN16265_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	97162	0
TRINITY_DN22994_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	97047	0
TRINITY_DN16148_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	95069	0
TRINITY_DN10093_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	94593	0
TRINITY_DN13095_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	94350	0
TRINITY_DN6032_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	94324	0
TRINITY_DN4104_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	0	94066	0
TRINITY_DN11490_c0_g1_i4_6	0	0	0	0	0	0	0	0	0	93106	0	0
TRINITY_DN11358_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	0	92928	0
TRINITY_DN5926_c0_g1_i1_3	41642	50749	0	0	0	0	0	0	0	0	0	0
TRINITY_DN10755_c0_g1_i3_1	0	0	0	0	0	0	0	0	0	92364	0	0
TRINITY_DN13112_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	92015
TRINITY_DN1601_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	91919	0
TRINITY_DN20005_c0_g1_i1_6	10079	0	79666	0	0	0	0	0	0	0	0	0
TRINITY_DN9298_c0_g1_i2_6	0	0	0	0	0	0	0	0	0	0	88927	0
TRINITY_DN10791_c2_g1_i1_2	0	70097	18313	0	0	0	0	0	0	0	0	0
TRINITY_DN12338_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	88380	0	0
TRINITY_DN2894_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	88104	0	0
TRINITY_DN9321_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	85743
TRINITY_DN8786_c1_g1_i1_3	0	0	0	0	0	0	0	0	0	85145	0	0
TRINITY_DN8717_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	84764	0	0
TRINITY_DN266_c0_g2_i2_2	0	0	0	0	0	0	0	0	0	82427	0	0
TRINITY_DN10315_c0_g1_i3_3	0	0	0	0	0	0	0	0	0	0	81732	0
TRINITY_DN19933_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	80795	0
TRINITY_DN9610_c0_g1_i5_6	0	0	0	0	0	0	0	0	0	0	79631	0
TRINITY_DN3076_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	79159	0
TRINITY_DN10575_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	76848
TRINITY_DN14305_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	73359	0	0
TRINITY_DN11352_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	70555
TRINITY_DN6147_c0_g1_i2_6	0	0	0	0	0	0	0	0	0	38003	27879	0
TRINITY_DN10057_c1_g1_i2_3	0	0	0	0	0	0	0	0	0	0	0	65118
TRINITY_DN13010_c0_g1_i1_1	0	0	0	0	0	0	0	0	63248	0	0	0
TRINITY_DN2392_c0_g1_i1_2	0	0	0	0	60335	0	0	0	0	0	0	0

TRINITY_DN9690_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	0	59821	0
TRINITY_DN11443_c0_g1_i1_3	25463	31951	0	0	0	0	0	0	0	0	0	0
TRINITY_DN14199_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	57006	0
TRINITY_DN7984_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	55800	0	0
TRINITY_DN15785_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	54977
TRINITY_DN21396_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	53921	0	0
TRINITY_DN7330_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	51134	0	0
TRINITY_DN9918_c0_g2_i5_3	0	0	0	0	0	0	0	0	0	50035	0	0
TRINITY_DN10206_c0_g8_i1_3	0	0	49321	0	0	0	0	0	0	0	0	0
TRINITY_DN21905_c0_g1_i1_6	0	0	49187	0	0	0	0	0	0	0	0	0
TRINITY_DN20071_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	48749	0
TRINITY_DN8834_c0_g1_i4_2	0	0	0	0	0	0	0	0	0	0	45098	0
TRINITY_DN10839_c0_g1_i3_6	0	0	0	0	0	0	0	0	0	44060	0	0
TRINITY_DN2321_c0_g1_i1_6	42992	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN12272_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	41753	0
TRINITY_DN8223_c1_g1_i1_3	0	0	0	0	0	0	0	0	0	40544	0	0
TRINITY_DN11343_c0_g1_i7_1	0	0	33951	0	0	0	0	0	0	0	0	0
TRINITY_DN20424_c0_g1_i1_1	0	0	32906	0	0	0	0	0	0	0	0	0
TRINITY_DN3551_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	32562
TRINITY_DN9616_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	26570	0
TRINITY_DN13664_c0_g1_i1_1	0	26261	0	0	0	0	0	0	0	0	0	0
TRINITY_DN9032_c0_g1_i5_4	0	0	0	0	0	0	0	0	0	0	12085	0
TRINITY_DN10274_c0_g1_i3_2	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN10289_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN1145_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN11535_c0_g1_i3_2	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN14223_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN18123_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN18755_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN20629_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN20794_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN21254_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN22136_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0

TRINITY_DN22623_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN2924_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN493_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN6077_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN6267_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN6751_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN9010_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	0	0	0

Supplementary Table S3: Top BLAST hits of identified Corylus pollen proteins

Protein IDs	e-value [blastx hit 1]	bitscore [blastx hit 1]	accession [blastx hit 1]	name [blastx hit 1]	organism [blastx hit 1]	accession [blastx hit 2]
TRINITY_DN8608_c2_g1_i2_5	5,39E-101	293	emb|CAA50325.1	major allergen	Corylus avellana	CAA50327.1
TRINITY_DN11207_c0_g1_i2_3	1,62E-98	287	emb|CAA96549.1	major allergen Cor a 1	Corylus avellana	XP_018825721.1
TRINITY_DN9484_c0_g1_i1_5	0	726	XP_008383158.1	phosphoglycerate kinase, cytosolic	Malus domestica	XP_008226131.1
TRINITY_DN7872_c0_g1_i3_6	1,31E-49	163	XP_016650474.1	glycine-rich RNA-binding protein GRP1A	Prunus mume	XP_018847818.1
TRINITY_DN10821_c0_g1_i5_2	0	620	AGU09563.1	isoflavone reductase	Corylus avellana	AAG22740.1
TRINITY_DN11055_c0_g2_i3_5	0	720	XP_008241272.1	monodehydroascorbate reductase	Prunus mume	XP_009374749.1
TRINITY_DN9053_c0_g1_i5_1	0	822	XP_018811449.1	UTP--glucose-1-phosphate uridylyltransferase	Juglans regia	XP_018816885.1
TRINITY_DN10419_c0_g1_i1_1	0	1015	XP_018819373.1	2,3-bisphosphoglycerate-independent phosphoglycerate mutase	Juglans regia	XP_018819374.1
TRINITY_DN11591_c0_g3_i5_3	3,83E-108	313	21886603|emb|CAC84116.1	peptidylprolyl isomerase (cyclophilin)	Betula pendula	|219736587|emb|CAW66894.1
TRINITY_DN11331_c0_g10_i2_1	3,49E-45	147	emb|CAC39160.1	putative LEA III protein isoform 1	Corylus avellana	CAC39110.1
TRINITY_DN8476_c0_g1_i1_3	1,60E-155	438	AHF71027.1	glutathione S-transferase	Betula pendula	XP_018812288.1
TRINITY_DN10442_c0_g1_i1_2	1,16E-179	502	XP_018839113.1	aldo-keto reductase family 4 member C9-like	Juglans regia	XP_018839114.1
TRINITY_DN9319_c0_g1_i1_2	3,81E-157	456	XP_018849923.1	exopolygalacturonase-like	Juglans regia	XP_018849924.1
TRINITY_DN9571_c0_g1_i2_3	0	551	XP_018841935.1	putative lactoylglutathione lyase	Juglans regia	KHN33024.1
TRINITY_DN13451_c0_g2_i1_3	6,80E-13	64,3	KOM34373.1	hypothetical protein LR48_Vigan02g052300	Vigna angularis	ONI23844.1
TRINITY_DN8018_c0_g1_i2_4	1,10E-31	117	XP_018813928.1	non-specific lipid-transfer protein A-like	Juglans regia	XP_019438918.1
TRINITY_DN10804_c2_g1_i1_3	2,84E-151	431	XP_018814537.1	triosephosphate isomerase, cytosolic	Juglans regia	OAY46102.1
TRINITY_DN10890_c0_g3_i4_6	0	634	XP_008239046.1	probable polygalacturonase	Prunus mume	ONI07400.1
TRINITY_DN8608_c2_g1_i1_5	4,69E-65	199	emb|CAA50328.1	major allergen	Corylus avellana	CAA50326.1
TRINITY_DN6026_c0_g1_i1_2	4,39E-92	270	XP_008241145.1	ubiquitin-NEDD8-like protein RUB2	Prunus mume	ONH95703.1
TRINITY_DN11331_c0_g10_i3_1	2,86E-41	136	emb|CAC39110.1	putative LEA III protein isoform 2	Corylus avellana	CAC39160.1
TRINITY_DN13307_c0_g1_i1_1	4,01E-81	241	ABG81302.1	pollen profilin variant 7	Corylus avellana	ABG81303.1
TRINITY_DN11501_c0_g1_i5_2	0	1476	ONH94297.1	hypothetical protein PRUPE_7G009200	Prunus persica	ONH94298.1
TRINITY_DN9487_c0_g3_i2_5	0	838	XP_008241309.1	enolase	Prunus mume	ONH96293.1
TRINITY_DN10587_c0_g1_i1_3	1,07E-90	271	XP_018844175.1	peptidyl-prolyl cis-trans isomerase FKBP15-1	Juglans regia	KDP45276.1
TRINITY_DN10479_c0_g2_i1_3	7,90E-35	125	XP_018841685.1	putative invertase inhibitor	Juglans regia	XP_018853991.1
TRINITY_DN11616_c0_g1_i2_1	0	1087	XP_018837851.1	phosphoglucomutase, cytoplasmic	Juglans regia	XP_018826631.1
TRINITY_DN4595_c0_g1_i1_3	4,18E-17	73,6	XP_018814700.1	major pollen allergen Ole e 6-like	Juglans regia	KDP44441.1
TRINITY_DN3727_c0_g2_i1_1	4,52E-97	285	XP_015939773.1	translationally-controlled tumor protein homolog	Arachis duranensis	ABI84255.1

TRINITY_DN9731_c0_g1_i1_1	0	605	XP_018816251.1	calreticulin	Juglans regia	XP_018856844.1
TRINITY_DN3709_c0_g1_i1_3	0	560	XP_018807661.1	malate dehydrogenase	Juglans regia	ALI57374.1
TRINITY_DN9065_c0_g1_i1_1	0	890	XP_018825758.1	galactokinase-like isoform X1	Juglans regia	XP_018825759.1
TRINITY_DN11320_c0_g1_i11_3	7,20E-74	238	XP_018815580.1	uncharacterized protein LOC108987164	Juglans regia	XP_015964166.1
TRINITY_DN6201_c0_g1_i1_1	1,84E-103	304	ONI14208.1	hypothetical protein PRUPE_4G269100	Prunus persica	ADR80688.1
TRINITY_DN6019_c0_g1_i1_3	0	760	XP_018841632.1	uncharacterized protein LOC109006717	Juglans regia	XP_018829078.1
TRINITY_DN10785_c0_g1_i3_3	2,74E-39	136	XP_018841685.1	putative invertase inhibitor	Juglans regia	XP_018853991.1
TRINITY_DN10341_c0_g2_i1_1	1,40E-158	454	XP_018823047.1	2-methylene-furan-3-one reductase-like	Juglans regia	XP_004509819.1
TRINITY_DN10479_c0_g1_i2_1	8,97E-43	148	XP_018806754.1	putative invertase inhibitor	Juglans regia	XP_018815938.1
TRINITY_DN10144_c0_g1_i2_2	2,49E-82	246	CAA74365.1	putative Ole e 1 protein	Betula pendula	O49813.1
TRINITY_DN5870_c0_g1_i2_4	2,00E-63	195	XP_018842397.1	glutaredoxin-like	Juglans regia	XP_009334103.1
TRINITY_DN10438_c0_g2_i1_2	0	622	XP_018806786.1	aldose 1-epimerase	Juglans regia	XP_008374865.1
TRINITY_DN8953_c0_g1_i1_1	2,75E-79	237	XP_018823225.1	uncharacterized protein LOC108992954	Juglans regia	XP_009353814.1
TRINITY_DN9146_c0_g3_i2_3	0	1253	emb|CAC14168.1	putative luminal binding protein	Corylus avellana	CAW63975.1
TRINITY_DN10397_c0_g1_i2_5	5,38E-111	321	KDP46494.1	hypothetical protein JCGZ_08466	Jatropha curcas	XP_012067558.1
TRINITY_DN10647_c0_g1_i1_4	2,50E-115	340	XP_008221708.1	glutathione S-transferase U17-like	Prunus mume	ONI30654.1
TRINITY_DN11581_c0_g2_i3_2	2,88E-56	183	ACV50426.1	cytosolic ascorbate peroxidase-1	Jatropha curcas	KDP44134.1
TRINITY_DN7958_c0_g4_i1_6	4,28E-164	461	KOM41958.1	hypothetical protein LR48_Vigan04g215600	Vigna angularis	KOM46459.1
TRINITY_DN10683_c0_g1_i3_5	7,88E-123	354	XP_018852474.1	probable phospholipid hydroperoxide glutathione peroxidase	Juglans regia	XP_008238855.1
TRINITY_DN11604_c0_g1_i6_2	1,43E-146	416	XP_018846260.1	putative methyltransferase DDB_G0268948	Juglans regia	XP_018838664.1
TRINITY_DN9279_c0_g1_i1_1	3,11E-101	294	XP_018847774.1	probable calcium-binding protein CML13	Juglans regia	XP_018831699.1
TRINITY_DN11174_c0_g1_i5_1	0	516	XP_018814951.1	senescence-specific cysteine protease SAG39-like	Juglans regia	XP_018830491.1
TRINITY_DN11394_c0_g1_i1_2	0	831	XP_018818327.1	guanosine nucleotide diphosphate dissociation inhibitor At5g09550	Juglans regia	ONH90692.1
TRINITY_DN10920_c0_g1_i2_3	0	651	ONI03043.1	hypothetical protein PRUPE_6G235100	Prunus persica	XP_008243957.1
TRINITY_DN13244_c0_g1_i1_3	5,71E-16	77	XP_018847235.1	cell wall / vacuolar inhibitor of fructosidase 1	Juglans regia	ONI14778.1
TRINITY_DN10804_c1_g1_i1_3	6,43E-56	180	XP_018823301.1	triosephosphate isomerase, cytosolic	Juglans regia	ONI00223.1
TRINITY_DN10010_c0_g1_i2_4	0	612	XP_018814928.1	probable lactoylglutathione lyase, chloroplastic	Juglans regia	OAY27259.1
TRINITY_DN11304_c0_g1_i5_2	0	619	OAY28308.1	hypothetical protein MANES_15G057000	Manihot esculenta	KDP39327.1
TRINITY_DN14318_c0_g1_i1_5	7,51E-70	218	ONH92634.1	hypothetical protein PRUPE_8G185500	Prunus persica	ONH92633.1
TRINITY_DN11227_c0_g1_i5_5	4,07E-163	459	XP_018807198.1	uncharacterized protein LOC108980651	Juglans regia	OAY33079.1
TRINITY_DN4231_c0_g1_i1_1	1,02E-55	174	XP_018847733.1	small ubiquitin-related modifier 1-like	Juglans regia	XP_018818051.1
TRINITY_DN10618_c0_g1_i1_3	0	785	XP_018849508.1	protein DJ-1 homolog B-like	Juglans regia	KDP32522.1
TRINITY_DN9827_c0_g1_i1_5	3,19E-57	182	XP_018826050.1	acyl carrier protein 1, chloroplastic-like	Juglans regia	XP_018840595.1
TRINITY_DN7126_c0_g3_i1_3	3,84E-67	206	XP_018831298.1	tubulin-folding cofactor A-like	Juglans regia	XP_018831299.1
TRINITY_DN11590_c1_g1_i1_3	0	561	XP_018839732.1	cinnamoyl-CoA reductase 1-like	Juglans regia	BAE48658.1

TRINITY_DN11652_c0_g1_i2_1	0	1158	XP_018825745.1	heat shock cognate protein 80-like	Juglans regia	XP_018825752.1
TRINITY_DN5250_c0_g1_i1_1	1,54E-46	153	XP_018833110.1	cysteine proteinase inhibitor A-like	Juglans regia	XP_018833111.1
TRINITY_DN11459_c1_g2_i2_1	0	1185	OAY46075.1	hypothetical protein MANES_07G114800	Manihot esculenta	KDP44981.1
TRINITY_DN10499_c0_g1_i1_2	0	694	CAJ21172.1 alcohol dehydrogenase	Alnus glutinosa		XP_018839886.1
TRINITY_DN8634_c0_g1_i1_1						
TRINITY_DN10893_c0_g1_i1_2	2,38E-21	90,5	XP_018806754.1	putative invertase inhibitor	Juglans regia	XP_018815938.1
TRINITY_DN9811_c0_g1_i2_3	3,90E-94	278	KDP23592.1	hypothetical protein JCGZ_23425	Jatropha curcas	XP_012089157.1
TRINITY_DN8650_c0_g2_i3_2	0	711	XP_018818659.1	alpha-1,4-glucan-protein synthase [UDP-forming] 2	Juglans regia	XP_018817015.1
TRINITY_DN11653_c0_g1_i19_5	0	781	XP_008241048.1	actin	Prunus mume	XP_008385127.1
TRINITY_DN8041_c0_g1_i2_3	0	650	ONH96252.1	hypothetical protein PRUPE_7G116600	Prunus persica	XP_007202259.1
TRINITY_DN14244_c0_g1_i1_2	2,16E-66	202	XP_018830082.1	desiccation protectant protein Lea14 homolog	Juglans regia	XP_018847006.1
TRINITY_DN10590_c0_g2_i1_2	1,22E-147	428	ONI04889.1	hypothetical protein PRUPE_6G346300	Prunus persica	XP_007208154.2
TRINITY_DN3503_c0_g1_i2_1	4,56E-39	130	CAA73147.1	Bet v 4	Betula pendula	CAA73147.1
TRINITY_DN10155_c0_g1_i1_2	2,31E-141	404	XP_018860753.1	haloacid dehalogenase-like hydrolase domain-containing protein Sgpp	Juglans regia	KDP45952.1
TRINITY_DN11019_c0_g1_i1_2	0	954	XP_018831898.1	UDP-glucose 6-dehydrogenase 3	Juglans regia	XP_018818494.1
TRINITY_DN10859_c0_g1_i1_2	1,93E-72	218	XP_018846792.1	peptidyl-prolyl cis-trans isomerase FKBP12	Juglans regia	AFK34981.1
TRINITY_DN10804_c0_g1_i1_2	5,02E-82	248	XP_008223629.1	triosephosphate isomerase, cytosolic	Prunus mume	XP_009353661.1
TRINITY_DN7252_c0_g4_i3_3	0	1279	KYP38780.1	Endoplasmin isogeny	Cajanus cajan	XP_020203653.1
TRINITY_DN11092_c0_g1_i2_3	1,88E-166	470	XP_012074957.1	uncharacterized protein At5g02240	Jatropha curcas	KDP35646.1
TRINITY_DN11258_c0_g1_i2_3	1,41E-167	471	XP_018808590.1	14-3-3-like protein	Juglans regia	XP_018806495.1
TRINITY_DN8200_c0_g1_i1_1	3,74E-154	437	KHN12106.1	Carbonic anhydrase, chloroplastic	Glycine soja	KRH74596.1
TRINITY_DN9523_c0_g1_i1_4	1,06E-169	476	XP_018838373.1	protein CDI-like	Juglans regia	XP_015964723.1
TRINITY_DN10459_c0_g1_i1_3	8,00E-93	275	XP_018848789.1	peroxiredoxin-2B	Juglans regia	XP_018857900.1
TRINITY_DN11248_c1_g1_i1_3	9,06E-111	326	XP_018825058.1	elongation factor 1-delta-like	Juglans regia	XP_018825059.1
TRINITY_DN10833_c1_g2_i1_1	5,57E-85	249	XP_018840197.1	nuclear transport factor 2-like	Juglans regia	ONI29953.1
TRINITY_DN9054_c0_g1_i2_1	3,04E-84	250	XP_018830082.1	desiccation protectant protein Lea14 homolog	Juglans regia	XP_018847006.1
TRINITY_DN11641_c0_g1_i13_1	0	823	XP_018858114.1	protein disulfide-isomerase-like	Juglans regia	XP_018858121.1
TRINITY_DN9275_c0_g1_i1_1	1,39E-130	373	XP_018807996.1	glycolipid transfer protein 1-like	Juglans regia	XP_018808001.1
TRINITY_DN11496_c0_g1_i1_2	0	612	XP_018849818.1	malate dehydrogenase, mitochondrial	Juglans regia	XP_018822629.1
TRINITY_DN10665_c0_g1_i1_2	0	808	XP_008243316.1	ATP synthase subunit beta, mitochondrial	Prunus mume	XP_018849756.1
TRINITY_DN11667_c0_g1_i3_3	0	1652	XP_018815585.1	elongation factor 2-like isoform X1	Juglans regia	XP_018815586.1
TRINITY_DN2899_c0_g1_i1_1	9,07E-84	248	ABG81298.1	pollen profilin variant 3	Corylus avellana	A4KA41.1
TRINITY_DN5468_c0_g2_i2_1	5,14E-56	181	XP_018829795.1	uncharacterized protein At4g13230	Juglans regia	XP_020234770.1
TRINITY_DN11591_c0_g3_i6_3	9,55E-53	167	21886603|emb|CAC84116.1	peptidylprolyl isomerase (cyclophilin)	Betula pendula	|219736587|emb|CAW66894.1
TRINITY_DN11204_c0_g1_i1_3	0	1310	XP_018848851.1	trifunctional UDP-glucose 4,6-dehydratase/UDP-4-keto-6-deoxy-D-glucose 3,5-epimerase/UDP-4-keto-L-rhamnose-reductase RHM1	Juglans regia	KHN36936.1

TRINITY_DN10703_c1_g1_i1_1	4,40E-94	274	ONI23028.1	hypothetical protein PRUPE_2G165300	Prunus persica	XP_007218574.1
TRINITY_DN11207_c0_g1_i1_3	1,97E-101	295	emb|CAA96549.1	major allergen Cor a 1	Corylus avellana	XP_018825721.1
TRINITY_DN10743_c0_g1_i1_2	1,34E-139	402	XP_018829015.1	binding partner of ACD11 1-like	Juglans regia	KRH74377.1
TRINITY_DN8812_c0_g1_i2_1	1,77E-72	219	XP_012089770.1	macrophage migration inhibitory factor homolog isoform X2	Jatropha curcas	XP_009373089.1
TRINITY_DN11581_c0_g1_i4_3	1,34E-94	279	XP_018818881.1	L-ascorbate peroxidase, cytosolic	Juglans regia	XP_018818882.1
TRINITY_DN9487_c0_g2_i1_5	0	854	XP_008376333.1	enolase	Malus domestica	ONI25116.1
TRINITY_DN11173_c0_g3_i1_4	0	610	XP_008229069.1	ADP,ATP carrier protein 3, mitochondrial	Prunus mume	OAY34034.1
TRINITY_DN5663_c0_g2_i1_3	7,47E-61	190	XP_018845447.1	glutaredoxin-C4	Juglans regia	KDP46838.1
TRINITY_DN9210_c0_g1_i1_1	3,11E-44	146	XP_018839522.1	probable steroid-binding protein 3	Juglans regia	XP_018839569.1
TRINITY_DN9779_c0_g1_i1_1	0	878	XP_018820845.1	xylose isomerase	Juglans regia	XP_012065287.1
TRINITY_DN16006_c0_g1_i1_2	6,21E-25	96,7	XP_018837516.1	uncharacterized protein LOC109003708	Juglans regia	ONI14778.1
TRINITY_DN5448_c0_g2_i1_3	1,42E-100	293	ADU56174.1	ubiquitin-conjugating family protein	Jatropha curcas	ADV04060.1
TRINITY_DN10761_c0_g1_i2_2	0	698	XP_018811005.1	elongation factor 1-gamma-like isoform X1	Juglans regia	XP_018817874.1
TRINITY_DN11378_c0_g1_i1_4	0	936	XP_018844065.1	serine hydroxymethyltransferase 4	Juglans regia	OAY28306.1
TRINITY_DN10720_c0_g2_i2_6	0	621	XP_014494377.1	glyceraldehyde-3-phosphate dehydrogenase GAPC1, cytosolic	Vigna radiata var. radiata	ACU19758.1
TRINITY_DN11028_c0_g2_i2_3	2,16E-142	404	XP_018825159.1	GTP-binding protein YPTM2	Juglans regia	XP_008238395.1
TRINITY_DN10686_c0_g1_i1_3	0	974	XP_018816425.1	L-ascorbate oxidase homolog	Juglans regia	XP_018819385.1
TRINITY_DN10496_c0_g1_i5_3	0	618	XP_018857524.1	UDP-glucose 4-epimerase GEPI48-like	Juglans regia	XP_018824378.1
TRINITY_DN11432_c0_g1_i3_6	0	562	XP_008236513.1	probable mannitol dehydrogenase	Prunus mume	ONI02572.1
TRINITY_DN4601_c0_g1_i1_1	8,42E-76	228	ONI35591.1	hypothetical protein PRUPE_1G544400	Prunus persica	XP_007225902.1
TRINITY_DN10681_c0_g1_i1_2	0	1818	XP_018841811.1	aconitate hydratase, cytoplasmic isoform X1	Juglans regia	KDP22711.1
TRINITY_DN10442_c0_g2_i1_4	5,01E-27	106	XP_018839113.1	aldo-keto reductase family 4 member C9-like	Juglans regia	XP_018839114.1
TRINITY_DN9458_c0_g1_i2_2	0	624	XP_018807246.1	probable protein disulfide-isomerase A6	Juglans regia	KDP28233.1
TRINITY_DN8250_c0_g1_i2_3	0	599	XP_018851336.1	2-alkenal reductase (NADP(+)-dependent)-like isoform X2	Juglans regia	XP_018851335.1
TRINITY_DN10239_c0_g1_i1_2	1,95E-132	379	XP_018858784.1	lactoylglutathione lyase isoform X1	Juglans regia	ONI00873.1
TRINITY_DN11469_c0_g2_i3_2	2,21E-120	359	XP_018814905.1	root phototropism protein 2	Juglans regia	KRH30675.1
TRINITY_DN7240_c0_g1_i2_1	8,91E-16	71,6	XP_008341835.1	stress-induced protein KIN2-like	Malus domestica	XP_009373724.1
TRINITY_DN4014_c0_g1_i1_2	2,97E-86	257	XP_018837329.1	glycine cleavage system H protein 2, mitochondrial-like	Juglans regia	XP_018859042.1
TRINITY_DN10537_c0_g1_i2_4	0	617	XP_020538312.1	malate dehydrogenase, cytoplasmic isoform X1	Jatropha curcas	KDP28817.1
TRINITY_DN5324_c1_g1_i2_1	1,75E-60	192	OAY32796.1	hypothetical protein MANES_13G046500	Manihot esculenta	KDP26372.1
TRINITY_DN5563_c0_g1_i1_6						
TRINITY_DN8045_c0_g1_i1_5	1,59E-75	225	XP_018821975.1	thioredoxin H-type	Juglans regia	XP_018821976.1
TRINITY_DN8960_c0_g1_i1_2	7,25E-96	280	XP_018824314.1	reactive Intermediate Deaminase A, chloroplastic-like	Juglans regia	XP_018811490.1
TRINITY_DN4028_c1_g1_i1_2	5,07E-103	300	emb|CAW66836.1	unnamed protein product	Glycine max	CAW52404.1
TRINITY_DN11269_c2_g1_i10_3	0	830	XP_018835118.1	eukaryotic initiation factor 4A-15	Juglans regia	XP_018835119.1
TRINITY_DN11656_c0_g1_i6_2	0	888	XP_018856355.1	elongation factor 1-alpha	Juglans regia	XP_018805761.1

TRINITY_DN10568_c0_g3_i2_1	0	778	OAY30593.1	hypothetical protein MANES_14G043300	Manihot esculenta	XP_014505844.1
TRINITY_DN9271_c0_g1_i1_1	4,77E-74	229	AFK35102.1	unknown	Lotus japonicus	KHN12948.1
TRINITY_DN10339_c0_g2_i1_4	3,29E-81	244	XP_018842805.1	cytochrome b5-like	Juglans regia	XP_018842806.1
TRINITY_DN8726_c0_g2_i1_5	4,73E-136	393	XP_018813322.1	photosynthetic NDH subunit of lumenal location 5, chloroplastic-like	Juglans regia	XP_018811825.1
TRINITY_DN11504_c0_g1_i1_3	1,93E-82	249	XP_018852846.1	uncharacterized protein At4g28440-like	Juglans regia	KDP26583.1
TRINITY_DN10183_c0_g2_i2_2	0	535	XP_018823791.1	triosephosphate isomerase, chloroplastic	Juglans regia	XP_020425754.1
TRINITY_DN1820_c0_g1_i1_6	3,20E-18	82,4	XP_018806754.1	putative invertase inhibitor	Juglans regia	XP_018815938.1
TRINITY_DN8787_c0_g2_i1_4	1,41E-24	93,6	XP_008341834.1	stress-induced protein KIN2-like	Malus domestica	XP_008341836.1
TRINITY_DN10196_c0_g1_i1_1	1,88E-149	429	XP_018830611.1	carboxylesterase 1-like	Juglans regia	XP_016649976.1
TRINITY_DN10535_c0_g1_i2_3	1,67E-128	367	XP_018843515.1	UMP-CMP kinase 3-like	Juglans regia	XP_018818963.1
TRINITY_DN11343_c0_g1_i7_2	0	872	dbj|BAO50884.1	ATP synthase F1 subunit 1 (mitochondrion)	Hevea brasiliensis	BAO50925.1
TRINITY_DN9170_c0_g1_i1_1	1,45E-144	411	XP_018826002.1	endo-1,3;1,4-beta-D-glucanase isoform X2	Juglans regia	XP_018826001.1
TRINITY_DN9813_c0_g1_i1_2	0	1726	XP_018832881.1	staphylococcal nuclease domain-containing protein 1-like	Juglans regia	XP_018832889.1
TRINITY_DN11430_c0_g2_i4_6	0	894	OAY49326.1	hypothetical protein MANES_05G047000	Manihot esculenta	XP_018856789.1
TRINITY_DN9475_c0_g1_i1_3	0	720	XP_018838095.1	3-hydroxyisobutyryl-CoA hydrolase-like protein 3, mitochondrial isoform X1	Juglans regia	XP_018838098.1
TRINITY_DN11040_c0_g1_i6_1	0	654	XP_018845321.1	vicilin-like seed storage protein At2g28490 isoform X3	Juglans regia	XP_018845319.1
TRINITY_DN10148_c0_g1_i6_3	0	567	XP_018839537.1	probable protein phosphatase 2C 59	Juglans regia	XP_018839538.1
TRINITY_DN5484_c0_g2_i1_4	3,40E-09	53,9	KOM45422.1	hypothetical protein LR48_Vigan06g072800	Vigna angularis	XP_017426562.1
TRINITY_DN7458_c0_g1_i3_2	1,02E-13	68,2	KDP44437.1	hypothetical protein JCGZ_16270	Jatropha curcas	KOM25386.1
TRINITY_DN7727_c0_g2_i1_3	1,01E-176	501	XP_018824181.1	ervatamin-B-like	Juglans regia	XP_008229136.1
TRINITY_DN18091_c0_g1_i1_4	6,79E-15	71,2	XP_018806754.1	putative invertase inhibitor	Juglans regia	XP_018815938.1
TRINITY_DN10656_c0_g1_i1_2	0	934	XP_018844057.1	selenium-binding protein 2-like	Juglans regia	XP_008380460.1
TRINITY_DN7279_c0_g1_i2_5	2,92E-60	189	XP_018844068.1	glycine-rich RNA-binding protein 2, mitochondrial-like	Juglans regia	XP_018844069.1
TRINITY_DN11640_c0_g2_i6_2	0	1446	XP_018841471.1	beta-galactosidase 13-like	Juglans regia	XP_009374578.2
TRINITY_DN1640_c0_g2_i1_1	3,69E-52	174	dbj|BAO50884.1	ATP synthase F1 subunit 1 (mitochondrion)	Hevea brasiliensis	BAO50925.1
TRINITY_DN7420_c0_g1_i1_1	1,34E-84	250	XP_008231331.1	thioredoxin-like protein Clot	Prunus mume	ONI20288.1
TRINITY_DN11604_c0_g1_i5_2	5,21E-146	416	XP_018846260.1	putative methyltransferase DDB_G0268948	Juglans regia	XP_018807016.1
TRINITY_DN7220_c0_g1_i2_2	0	1222	XP_018826868.1	heat shock 70 kDa protein, mitochondrial	Juglans regia	XP_018846283.1
TRINITY_DN11320_c0_g1_i7_2	6,40E-19	86,3	XP_008344290.1	uncharacterized protein LOC103407118	Malus domestica	XP_008344290.1
TRINITY_DN17793_c0_g1_i1_3						
TRINITY_DN128_c0_g1_i1_1	8,48E-79	234	XP_019433617.1	ubiquitin-60S ribosomal protein L40 isoform X1	Lupinus angustifolius	ACJ84010.1
TRINITY_DN7906_c0_g1_i1_2	1,91E-97	284	XP_018822739.1	14 kDa zinc-binding protein	Juglans regia	XP_007202700.2
TRINITY_DN9529_c0_g1_i4_3	3,04E-40	135	ONI34270.1	hypothetical protein PRUPE_1G472300	Prunus persica	ONI34271.1
TRINITY_DN10188_c0_g1_i1_1	0	525	XP_018859879.1	altered inheritance of mitochondria protein 32-like	Juglans regia	ONI19698.1
TRINITY_DN10809_c0_g1_i3_1	0	522	XP_018841469.1	L-ascorbate peroxidase 3, peroxisomal-like	Juglans regia	XP_018823838.1
TRINITY_DN10625_c0_g1_i2_2	0	729	OAY42731.1	hypothetical protein MANES_08G011500	Manihot esculenta	XP_018856900.1
TRINITY_DN11635_c2_g1_i4_2	0	644	XP_018824429.1	probable aldo-keto reductase 2	Juglans regia	XP_018858774.1

TRINITY_DN11639_c0_g1_i6_3	0	1235	XP_018838281.1	V-type proton ATPase catalytic subunit A	Juglans regia	OAY48691.1
TRINITY_DN10727_c0_g1_i1_2	4,47E-100	298	XP_018833734.1	elongation factor 1-beta 2	Juglans regia	XP_007146187.1
TRINITY_DN8828_c0_g1_i1_2	3,07E-171	497	XP_018831158.1	conserved oligomeric Golgi complex subunit 3	Juglans regia	ONH97445.1
TRINITY_DN9853_c0_g2_i1_2	0	537	XP_018859093.1	probable pectinesterase/pectinesterase inhibitor 51	Juglans regia	XP_018831968.1
TRINITY_DN17353_c0_g1_i1_1	3,01E-176	495	XP_018823126.1	probable prolyl 4-hydroxylase 6	Juglans regia	XP_018844780.1
TRINITY_DN11024_c0_g2_i1_3	1,40E-150	429	XP_018858487.1	(+)-neomenthol dehydrogenase-like isoform X1	Juglans regia	XP_020218534.1
TRINITY_DN7121_c0_g2_i1_5	0	752	XP_018843179.1	fructose-bisphosphate aldolase 3, chloroplastic	Juglans regia	ONI31556.1
TRINITY_DN8295_c0_g1_i1_3						
TRINITY_DN7552_c0_g1_i2_3	0	699	XP_018837780.1	3-hydroxyisobutyryl-CoA hydrolase-like protein 5 isoform X1	Juglans regia	XP_018837782.1
TRINITY_DN11568_c0_g1_i1_2	0	1068	XP_018824334.1	granule-bound starch synthase 1, chloroplastic/amyloplastic-like isoform X1	Juglans regia	XP_018824335.1
TRINITY_DN11106_c0_g1_i3_1	0	792	XP_018819528.1	protein disulfide isomerase-like 1-4	Juglans regia	OAY38003.1
TRINITY_DN8501_c0_g1_i1_2	0	849	XP_018822246.1	aspartate aminotransferase P2, mitochondrial-like	Juglans regia	XP_018822247.1
TRINITY_DN9729_c0_g1_i1_5	0	597	XP_018824948.1	probable cinnamyl alcohol dehydrogenase 9	Juglans regia	ONI01833.1
TRINITY_DN11231_c0_g1_i2_3	0	634	XP_018822731.1	60S ribosomal protein L4	Juglans regia	XP_018850207.1
TRINITY_DN11267_c0_g1_i1_2	3,01E-162	458	XP_018839423.1	stem-specific protein TSJT1-like	Juglans regia	XP_008224229.1
TRINITY_DN10955_c0_g1_i6_2	8,16E-145	409	XP_012083760.1	ras-related protein RABH1b	Jatropha curcas	ONI22221.1
TRINITY_DN10695_c0_g1_i3_1	0	952	XP_020533781.1	polyadenylate-binding protein 2	Jatropha curcas	KYP48173.1
TRINITY_DN10388_c0_g2_i5_4	0	1026	XP_008218932.1	subtilisin-like protease SBT5.4	Prunus mume	XP_008384613.1
TRINITY_DN10780_c1_g2_i1_2	1,02E-97	287	XP_018819438.1	nucleoside diphosphate kinase B	Juglans regia	ADB85102.1
TRINITY_DN4152_c0_g3_i1_2	2,90E-103	308	XP_018828611.1	uncharacterized protein LOC108996994	Juglans regia	XP_018819156.1
TRINITY_DN11590_c1_g2_i1_3	1,70E-161	455	XP_018839732.1	cinnamoyl-CoA reductase 1-like	Juglans regia	BAE48658.1
TRINITY_DN11603_c0_g2_i4_3	0	944	XP_018859052.1	coatomer subunit delta	Juglans regia	XP_018859053.1
TRINITY_DN9993_c0_g1_i2_4	0	1145	XP_018839760.1	subtilisin-like protease SBT4.15	Juglans regia	OAY42882.1
TRINITY_DN8821_c0_g1_i2_2	1,04E-155	436	XP_018838488.1	ras-related protein RABA1f	Juglans regia	XP_018860734.1
TRINITY_DN11484_c0_g1_i1_1	0	1230	XP_018823485.1	eukaryotic translation initiation factor-like isoform X2	Juglans regia	XP_018823484.1
TRINITY_DN10975_c0_g1_i1_3	3,11E-110	321	KYP55475.1	Eukaryotic translation initiation factor 5A-2	Cajanus cajan	XP_020228782.1
TRINITY_DN908_c0_g1_i1_5	1,30E-91	266	XP_018830768.1	actin-depolymerizing factor 7	Juglans regia	XP_018828430.1
TRINITY_DN4171_c0_g2_i2_3	0	654	XP_018829624.1	naringenin,2-oxoglutarate 3-dioxygenase	Juglans regia	ARV78456.1
TRINITY_DN11158_c0_g1_i1_2	1,22E-145	413	XP_018815728.1	acylpyruvase FAHD1, mitochondrial-like	Juglans regia	XP_018806160.1
TRINITY_DN11613_c0_g1_i1_1	0	610	XP_018811967.1	probable aldo-keto reductase 1	Juglans regia	XP_018826312.1
TRINITY_DN10470_c0_g1_i2_2	1,90E-116	338	KDP21650.1	hypothetical protein JCGZ_03321	Jatropha curcas	XP_012091217.1
TRINITY_DN12697_c0_g1_i1_3	3,27E-139	397	XP_008225202.1	GDSL esterase/lipase At5g45920	Prunus mume	XP_018849879.1
TRINITY_DN6523_c0_g1_i1_1	2,47E-108	313	ADV04063.1	protein binding/ubiquitin-protein ligase 2	Hevea brasiliensis	AGQ57016.1
TRINITY_DN7341_c0_g1_i1_3	1,20E-133	384	XP_018818615.1	1,2-dihydroxy-3-keto-5-methylthiopentene dioxygenase 2	Juglans regia	XP_018839409.1

TRINITY_DN8404_c0_g1_i1_3	0	534	ABW06959.1	isopentenyl pyrophosphate isomerase	Corylus avellana	XP_018815655.1
TRINITY_DN11519_c0_g1_i1_1	0	1680	XP_018847842.1	coatomer subunit gamma-2	Juglans regia	OAY25507.1
TRINITY_DN9737_c2_g2_i1_1	9,81E-131	375	OIV93727.1	hypothetical protein TanjilG_16578	Lupinus angustifolius	XP_007157443.1
TRINITY_DN11533_c0_g1_i2_3	0	1559	XP_018851707.1	phospholipase D alpha 1	Juglans regia	XP_018850650.1
TRINITY_DN8820_c0_g1_i1_1	0	947	OAY56999.1	hypothetical protein MANES_02G062200	Manihot esculenta	XP_018816810.1
TRINITY_DN5484_c0_g1_i1_2	2,48E-42	137	KDP39763.1	hypothetical protein JCGZ_02783	Jatropha curcas	AJE63430.1
TRINITY_DN10447_c0_g1_i1_3	3,75E-16	70,9	XP_018834136.1	late embryogenesis abundant protein 2-like	Juglans regia	ONI18849.1
TRINITY_DN431_c0_g1_i1_6	1,95E-165	467	XP_018850456.1	uncharacterized protein LOC109013009	Juglans regia	AFK36402.1
TRINITY_DN9847_c0_g1_i1_1	2,23E-111	323	XP_018832824.1	stress-response A/B barrel domain-containing protein UP3-like	Juglans regia	XP_018844473.1
TRINITY_DN11173_c0_g2_i3_4	0	681	XP_018816668.1	ADP,ATP carrier protein 1, mitochondrial	Juglans regia	CAA05979.1
TRINITY_DN6616_c0_g1_i1_4	0	543	XP_018857281.1	villin-3-like isoform X1	Juglans regia	XP_018857282.1
TRINITY_DN5630_c0_g1_i1_3	0	542	XP_018820284.1	aldo-keto reductase family 4 member C9-like	Juglans regia	XP_018820285.1
TRINITY_DN4574_c0_g1_i2_2	1,49E-111	323	XP_018812389.1	peroxiredoxin-2E-2, chloroplastic-like	Juglans regia	XP_018854230.1
TRINITY_DN8931_c0_g1_i1_2	5,78E-170	478	XP_018826881.1	soluble inorganic pyrophosphatase 6, chloroplastic-like	Juglans regia	XP_018844455.1
TRINITY_DN11512_c1_g1_i2_2	0	842	XP_018811769.1	aspartate aminotransferase, cytoplasmic	Juglans regia	AGF95095.1
TRINITY_DN5614_c0_g2_i1_2	1,82E-98	299	XP_018823830.1	DDB1- and CUL4-associated factor 8-like	Juglans regia	XP_018823831.1
TRINITY_DN10149_c0_g1_i2_3	0	514	XP_018818507.1	14-3-3-like protein GF14 iota isoform X1	Juglans regia	XP_018852339.1
TRINITY_DN9287_c0_g1_i1_3	0	561	XP_018807335.1	endonuclease 4-like	Juglans regia	ONI10288.1
TRINITY_DN13093_c0_g1_i1_3	0	717	XP_018849179.1	UDP-sugar pyrophosphorylase-like isoform X2	Juglans regia	XP_018849178.1
TRINITY_DN10610_c0_g2_i1_2	0	975	XP_004492897.1	V-type proton ATPase subunit B 2-like	Cicer arietinum	AES80476.1
TRINITY_DN4192_c0_g2_i1_1	2,60E-75	228	KYP50897.1	Peroxisomal multifunctional enzyme type 2	Cajanus cajan	XP_020231842.1
TRINITY_DN11220_c1_g2_i2_2	1,56E-132	383	XP_018841297.1	tropinone reductase homolog At5g06060-like	Juglans regia	XP_018850680.1
TRINITY_DN10317_c0_g1_i3_2	0	525	XP_018838677.1	inositol-phosphate phosphatase-like	Juglans regia	XP_015958999.1
TRINITY_DN9083_c0_g1_i2_2	1,79E-116	338	XP_018842921.1	membrane steroid-binding protein 1-like	Juglans regia	XP_018830725.1
TRINITY_DN6144_c0_g1_i2_2	4,73E-14	71,2	XP_018853991.1	pectinesterase inhibitor-like	Juglans regia	XP_018806753.1
TRINITY_DN13238_c0_g1_i1_4	9,10E-48	157	XP_018858281.1	chitinase 10-like	Juglans regia	OAY48827.1
TRINITY_DN21237_c0_g1_i1_2	6,86E-63	202	XP_018837443.1	UDP-glycosyltransferase 74E1-like	Juglans regia	XP_018810592.1
TRINITY_DN10003_c1_g1_i5_2	0	651	XP_018827473.1	D-3-phosphoglycerate dehydrogenase 1, chloroplastic-like	Juglans regia	XP_008353434.1
TRINITY_DN11618_c0_g1_i1_2	0	1480	XP_004493989.1	cell division control protein 48 homolog D	Cicer arietinum	XP_018836272.1
TRINITY_DN4347_c0_g1_i1_6	0	1174	XP_018826381.1	probable Xaa-Pro aminopeptidase P	Juglans regia	XP_018829411.1
TRINITY_DN5723_c0_g1_i1_2	6,39E-121	345	KDP30996.1	hypothetical protein JCGZ_11372	Jatropha curcas	XP_012079937.1
TRINITY_DN9234_c0_g1_i1_2	0	737	ADR71240.1	60S ribosomal protein L3B	Hevea brasiliensis	XP_018817903.1
TRINITY_DN13643_c0_g1_i1_2	2,23E-65	211	XP_015945795.1	polygalacturonase-like	Arachis duranensis	XP_008379967.1
TRINITY_DN6792_c0_g1_i2_5	1,50E-142	404	XP_018811458.1	ubiquitin thioesterase OTU1-like	Juglans regia	XP_018811464.1
TRINITY_DN7574_c0_g1_i5_2	0	692	XP_018841184.1	polygalacturonase QRT3-like	Juglans regia	XP_009363254.1
TRINITY_DN11191_c0_g1_i2_6	0	973	XP_018823509.1	leucine aminopeptidase 1-like	Juglans regia	XP_018810862.1
TRINITY_DN9754_c0_g1_i1_3	0	787	XP_018817260.1	3-ketoacyl-CoA thiolase 2, peroxisomal	Juglans regia	XP_018809682.1
TRINITY_DN5779_c0_g1_i1_2	1,47E-160	452	XP_018822871.1	strigolactone esterase D14	Juglans regia	XP_018838099.1

TRINITY_DN11323_c0_g1_i1_2	0	1412	XP_018840813.1	heat shock 70 kDa protein 15-like	Juglans regia	OAY36779.1
TRINITY_DN14709_c0_g1_i1_5	5,38E-59	185	XP_018843858.1	cysteine-rich repeat secretory protein 38-like isoform X1	Juglans regia	XP_018843859.1
TRINITY_DN9829_c0_g1_i3_2	4,55E-100	295	XP_018818935.1	superoxide dismutase [Cu-Zn], chloroplastic	Juglans regia	XP_009372495.1
TRINITY_DN6396_c0_g1_i1_2	2,48E-54	172	XP_018851363.1	ubiquitin-fold modifier 1	Juglans regia	XP_004505718.1
TRINITY_DN8644_c0_g2_i1_1	1,90E-42	140	XP_018838679.1	cysteine proteinase inhibitor 5	Juglans regia	KDP21895.1
TRINITY_DN11241_c0_g1_i3_2	0	581	XP_018834071.1	mitochondrial phosphate carrier protein 3, mitochondrial-like	Juglans regia	XP_018834879.1
TRINITY_DN9392_c0_g1_i1_2	1,05E-115	339	XP_018819182.1	ran-binding protein 1 homolog a-like	Juglans regia	XP_018835624.1
TRINITY_DN10095_c0_g1_i1_3	0	886	XP_018811089.1	mitochondrial-processing peptidase subunit alpha-like isoform X1	Juglans regia	XP_018843285.1
TRINITY_DN9335_c0_g1_i1_4	0	611	XP_018828122.1	glutelin type-B 5-like	Juglans regia	XP_018828123.1
TRINITY_DN10130_c0_g2_i6_2	0	919	XP_018844904.1	aldehyde dehydrogenase family 7 member A1 isoform X1	Juglans regia	XP_018844905.1
TRINITY_DN11642_c0_g1_i3_4	0	1089	ONH98963.1	hypothetical protein PRUPE_6G002500	Prunus persica	ONH98964.1
TRINITY_DN7240_c0_g1_i1_3	7,97E-19	79,3	ONI18849.1	hypothetical protein PRUPE_3G243400	Prunus persica	XP_007216872.2
TRINITY_DN11079_c0_g1_i1_5	1,24E-122	356	XP_018807368.1	probable ATP synthase 24 kDa subunit, mitochondrial isoform X2	Juglans regia	XP_018807367.1
TRINITY_DN10242_c0_g1_i3_2	1,96E-93	277	XP_018830075.1	cyclic phosphodiesterase-like	Juglans regia	XP_009360792.1
TRINITY_DN3644_c0_g1_i2_3	1,34E-59	187	XP_018813581.1	uncharacterized protein Os08g0359500	Juglans regia	KDP28144.1
TRINITY_DN11383_c0_g1_i4_1	0	780	XP_018847358.1	probable polygalacturonase	Juglans regia	XP_018847365.1
TRINITY_DN9173_c0_g1_i1_4	7,88E-98	306	ONH99465.1	hypothetical protein PRUPE_6G031400	Prunus persica	XP_007207992.2
TRINITY_DN4403_c0_g1_i1_1	0	579	XP_018805947.1	putative glucose-6-phosphate 1-epimerase isoform X1	Juglans regia	XP_018805948.1
TRINITY_DN10720_c0_g1_i4_5	0	624	XP_019434027.1	glyceraldehyde-3-phosphate dehydrogenase, cytosolic-like	Lupinus angustifolius	OIV89251.1
TRINITY_DN11647_c1_g1_i1_1	0	700	KDP26669.1	hypothetical protein JCGZ_17827	Jatropha curcas	XP_020538969.1
TRINITY_DN12510_c0_g1_i1_1	0	520	XP_018847494.1	nitrile-specifier protein 5 isoform X2	Juglans regia	XP_018847493.1
TRINITY_DN1355_c0_g3_i1_5	1,75E-32	122	XP_018820031.1	transcription initiation factor IIA large subunit-like	Juglans regia	XP_018855526.1
TRINITY_DN11053_c0_g1_i4_6	5,32E-159	457	XP_018818750.1	GDSL esterase/lipase At3g48460-like	Juglans regia	KDP42125.1
TRINITY_DN5919_c0_g1_i1_3	8,44E-47	155	XP_018829689.1	3-isopropylmalate dehydratase small subunit 3-like	Juglans regia	XP_016175139.1
TRINITY_DN11546_c0_g1_i6_5	0	1615	XP_018845356.1	calcium-transporting ATPase 2, plasma membrane-type-like isoform X1	Juglans regia	XP_018845357.1
TRINITY_DN11141_c0_g1_i6_1	0	951	XP_018848687.1	glucose-1-phosphate adenylyltransferase large subunit 1-like isoform X1	Juglans regia	XP_018821124.1
TRINITY_DN2708_c0_g2_i1_1	0	566	XP_018844468.1	serine carboxypeptidase-like 40	Juglans regia	XP_020413400.1
TRINITY_DN9530_c0_g3_i4_1	0	670	XP_018814476.1	UDP-glucuronic acid decarboxylase 6	Juglans regia	XP_018814477.1
TRINITY_DN5278_c0_g1_i1_2	3,69E-41	135	KRH00483.1	hypothetical protein GLYMA_18G216000	Glycine max	AFK41154.1
TRINITY_DN10989_c0_g2_i2_1	0	942	XP_018806799.1	glycerol kinase	Juglans regia	XP_007215813.2
TRINITY_DN11653_c0_g2_i1_5	0	634	XP_018848909.1	actin-like	Juglans regia	XP_008240928.1
TRINITY_DN7029_c0_g1_i1_3	1,45E-145	419	OIW11687.1	hypothetical protein TanjilG_12206	Lupinus angustifolius	XP_019443705.1
TRINITY_DN10674_c0_g1_i3_4	0	529	XP_018809730.1	probable protein phosphatase 2C 76	Juglans regia	XP_018809734.1

TRINITY_DN10049_c0_g1_i1_3	0	742	XP_018855304.1	phosphoserine aminotransferase 1, chloroplastic-like	Juglans regia	XP_018852010.1
TRINITY_DN7937_c0_g1_i2_5	3,30E-47	156	XP_018839196.1	uncharacterized protein LOC109004950	Juglans regia	ONI26983.1
TRINITY_DN1722_c0_g2_i1_3	1,65E-55	172	AEC03317.1	thioredoxin H-type 3	Hevea brasiliensis	AAZ32865.1
TRINITY_DN11314_c0_g1_i3_2	0	615	XP_018829808.1	probable UDP-arabinopyranose mutase 5 isoform X1	Juglans regia	XP_018829809.1
TRINITY_DN9588_c0_g1_i1_2	0	1152	XP_018843066.1	pyrophosphate--fructose 6-phosphate 1-phosphotransferase subunit alpha	Juglans regia	XP_018832985.1
TRINITY_DN10926_c1_g1_i3_3	2,36E-81	245	XP_018828917.1	pollen-specific protein C13-like	Juglans regia	XP_018849651.1
TRINITY_DN5721_c0_g4_i1_3	2,47E-25	96,7	XP_018851682.1	uncharacterized protein LOC109013892	Juglans regia	GAU12555.1
TRINITY_DN10576_c0_g1_i1_3	1,76E-119	343	OAY54996.1	hypothetical protein MANES_03G119600	Manihot esculenta	XP_018823733.1
TRINITY_DN11459_c1_g4_i8_2	0	1163	KDP35613.1	hypothetical protein JCGZ_09051	Jatropha curcas	XP_012074911.1
TRINITY_DN10492_c1_g1_i2_6	4,19E-165	467	XP_018833512.1	hydroxyacylglutathione hydrolase cytoplasmic	Juglans regia	XP_019430954.1
TRINITY_DN11529_c0_g1_i2_3	0	1022	XP_018816364.1	dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 2-like	Juglans regia	XP_018827273.1
TRINITY_DN10583_c0_g2_i2_1	2,61E-170	494	XP_018814481.1	heat shock cognate 70 kDa protein 2-like	Juglans regia	KDP44981.1
TRINITY_DN12655_c0_g1_i1_2						
TRINITY_DN8865_c0_g2_i1_5	0	576	XP_018816673.1	UDP-glucose 6-dehydrogenase 1	Juglans regia	XP_018816674.1
TRINITY_DN6870_c0_g1_i5_1	0	1028	XP_018805935.1	pyruvate kinase 1, cytosolic isoform X2	Juglans regia	KDP29239.1
TRINITY_DN5791_c0_g1_i1_5	0	842	XP_018822123.1	xylulose kinase	Juglans regia	XP_018822124.1
TRINITY_DN11572_c0_g1_i1_6	6,25E-171	480	XP_018818651.1	40S ribosomal protein S3a-like	Juglans regia	XP_018826766.1
TRINITY_DN10346_c0_g2_i6_3	0	937	XP_018833268.1	glucose-1-phosphate adenylyltransferase small subunit, chloroplastic/amyloplastic	Juglans regia	AES71731.1
TRINITY_DN11809_c0_g1_i1_1	5,76E-81	243	XP_018843858.1	cysteine-rich repeat secretory protein 38-like isoform X1	Juglans regia	XP_018843859.1
TRINITY_DN4290_c0_g1_i1_3	0	652	XP_018809774.1	protein transport protein SEC31 homolog B-like isoform X1	Juglans regia	XP_018809776.1
TRINITY_DN10866_c0_g1_i1_1	0	861	XP_008221256.1	tubulin beta chain-like	Prunus mume	KDP36918.1
TRINITY_DN11465_c0_g1_i2_2	0	860	XP_018848980.1	folylpolyglutamate synthase	Juglans regia	OAY38548.1
TRINITY_DN10466_c0_g2_i3_1	0	1026	XP_018815415.1	ruBisCO large subunit-binding protein subunit alpha	Juglans regia	XP_009376066.1
TRINITY_DN3729_c0_g2_i1_1	1,78E-78	234	XP_008392560.1	actin-depolymerizing factor 7-like	Malus domestica	XP_003532683.1
TRINITY_DN10917_c0_g1_i1_1	0	1779	XP_018810025.1	2-oxoglutarate dehydrogenase, mitochondrial-like	Juglans regia	XP_018810026.1
TRINITY_DN4960_c0_g1_i2_6	0	756	XP_018826582.1	malate dehydrogenase, chloroplastic	Juglans regia	XP_018826583.1
TRINITY_DN10616_c0_g1_i2_2	1,52E-82	247	XP_018855792.1	probable calcium-binding protein CML27	Juglans regia	XP_018810240.1
TRINITY_DN11240_c0_g2_i1_2	0	1545	XP_018836580.1	aminopeptidase M1-like	Juglans regia	XP_018836578.1
TRINITY_DN11190_c0_g1_i2_3	0	956	XP_018845845.1	pyruvate kinase, cytosolic isozyme	Juglans regia	ONH98946.1
TRINITY_DN11571_c4_g2_i1_1	0	830	XP_008379344.1	tubulin alpha-2 chain	Malus domestica	XP_008230754.1
TRINITY_DN11669_c393_g1_i1_1	5,37E-12	63,5	XP_018831494.1	protein PXR1	Juglans regia	XP_018831495.1
TRINITY_DN10467_c0_g1_i1_1	1,10E-154	452	XP_018817112.1	aspartic proteinase nepenthesin-1-like	Juglans regia	XP_004503002.1
TRINITY_DN9500_c0_g2_i1_2	0	1034	XP_018839307.1	chaperonin CPN60-2, mitochondrial	Juglans regia	XP_018850271.1
TRINITY_DN10347_c0_g1_i1_3	0	809	KDP35739.1	hypothetical protein JCGZ_10511	Jatropha curcas	XP_012074735.1

TRINITY_DN5968_c0_g1_i1_3	0	550	OAY54741.1	hypothetical protein MANES_03G097900	Manihot esculenta	XP_018834543.1
TRINITY_DN5544_c0_g1_i1_3	3,69E-129	368	XP_008234622.1	60S ribosomal protein L9-1	Prunus mume	ONI25805.1
TRINITY_DN153_c0_g1_i1_1	0	620	XP_018813794.1	ubiquitin receptor RAD23b-like	Juglans regia	ONI16551.1
TRINITY_DN7265_c0_g2_i5_2	0	584	ADM52185.1	type II metacaspase	Hevea brasiliensis	ANB41198.1
TRINITY_DN9812_c0_g1_i3_4	0	990	XP_018813723.1	polyadenylate-binding protein 2-like	Juglans regia	XP_018813723.1
TRINITY_DN8811_c0_g1_i3_5	0	551	XP_008219675.1	annexin D1 isoform X3	Prunus mume	ONI35090.1
TRINITY_DN10516_c0_g1_i1_2	0	585	XP_018827577.1	SAL1 phosphatase-like isoform X2	Juglans regia	XP_018827576.1
TRINITY_DN4095_c0_g1_i1_4	8,41E-122	352	XP_018860721.1	glutathione S-transferase DHAR2-like	Juglans regia	XP_018860724.1
TRINITY_DN14849_c0_g1_i1_6	1,95E-40	138	XP_008374580.1	peroxidase P7-like	Malus domestica	XP_008354170.1
TRINITY_DN11228_c0_g2_i1_3	7,76E-45	147	XP_019419272.1	heat shock factor-binding protein 1-like	Lupinus angustifolius	XP_018857823.1
TRINITY_DN10795_c1_g1_i1_6	0	733	XP_018850665.1	elongation factor 1-gamma-like	Juglans regia	ONI35669.1
TRINITY_DN11220_c1_g2_i3_3	3,91E-47	155	XP_018841297.1	tropinone reductase homolog At5g06060-like	Juglans regia	XP_018837198.1
TRINITY_DN11391_c0_g2_i2_4	0	612	XP_018824861.1	ATP synthase subunit gamma, mitochondrial	Juglans regia	XP_018824860.1
TRINITY_DN2394_c0_g1_i2_6	3,27E-73	220	XP_018834238.1	cytochrome c	Juglans regia	XP_018831209.1
TRINITY_DN10841_c0_g2_i1_1	0	1134	XP_018844383.1	probable methyltransferase PMT27	Juglans regia	XP_018844383.1
TRINITY_DN9488_c0_g2_i1_2	4,09E-175	494	XP_018818800.1	probable 6-phosphogluconolactonase 4, chloroplastic	Juglans regia	KDP37759.1
TRINITY_DN959_c0_g1_i1_1	9,69E-78	242	XP_018850081.1	exopolygalacturonase-like	Juglans regia	XP_018823962.1
TRINITY_DN5607_c0_g1_i1_3	6,28E-128	367	XP_018827839.1	ras-related protein RABC1 isoform X1	Juglans regia	XP_018827840.1
TRINITY_DN11493_c0_g1_i5_3	1,40E-125	362	XP_018841699.1	ras-related protein RABE1c-like	Juglans regia	XP_018841700.1
TRINITY_DN18554_c0_g1_i1_2	0	696	XP_018857901.1	alpha-galactosidase 1-like	Juglans regia	XP_008221110.1
TRINITY_DN11428_c0_g1_i2_3	0	922	XP_018814251.1	dihydrolipoyl dehydrogenase 1, mitochondrial	Juglans regia	XP_018814252.1
TRINITY_DN23504_c0_g1_i1_4	3,32E-35	125	XP_018821921.1	peroxidase P7	Juglans regia	XP_016181866.1
TRINITY_DN11239_c1_g2_i1_6	6,27E-101	295	XP_008366039.1	60S ribosomal protein L11-1	Malus domestica	XP_009352738.1
TRINITY_DN19480_c0_g1_i1_2	2,09E-36	130	XP_018854675.1	glucan endo-1,3-beta-glucosidase 13-like, partial	Juglans regia	XP_018812075.1
TRINITY_DN12058_c0_g1_i1_3	4,15E-93	274	XP_018827015.1	40S ribosomal protein S3-2-like	Juglans regia	XP_018844535.1
TRINITY_DN4635_c0_g1_i1_6	1,31E-131	381	XP_018821858.1	ferritin-3, chloroplastic	Juglans regia	OAY46317.1
TRINITY_DN6720_c0_g1_i1_1	0	763	XP_018839373.1	stearoyl-[acyl-carrier-protein 9-desaturase, chloroplastic-like	Juglans regia	XP_018812159.1
TRINITY_DN15356_c0_g1_i1_3	3,82E-67	205	XP_018844610.1	mavicyanin-like	Juglans regia	OAY29562.1
TRINITY_DN10115_c0_g1_i5_2	3,68E-98	306	XP_018822921.1	methionine--tRNA ligase, cytoplasmic	Juglans regia	OAY28281.1
TRINITY_DN7162_c0_g1_i1_6	1,97E-62	193	XP_008235553.1	monothiol glutaredoxin-S10	Prunus mume	ONH93069.1
TRINITY_DN668_c0_g2_i1_6	1,87E-135	387	XP_018859632.1	60S ribosomal protein L10a	Juglans regia	XP_018813838.1
TRINITY_DN11756_c0_g2_i2_2	0	930	XP_019427299.1	phosphoglucomutase, chloroplastic	Lupinus angustifolius	XP_019427300.1
TRINITY_DN3503_c0_g1_i1_2	4,74E-36	121	CAA73147.1	Bet v 4	Betula pendula	CAA76831.1
TRINITY_DN10567_c0_g1_i1_3	5,78E-101	297	XP_018858751.1	ATP synthase subunit d, mitochondrial	Juglans regia	XP_018836470.1
TRINITY_DN9859_c0_g2_i1_3	0	2552	XP_018805213.1	alpha-glucan water dikinase, chloroplastic isoform X1	Juglans regia	XP_018805214.1
TRINITY_DN11119_c0_g1_i2_2	3,17E-166	469	KDP29482.1	hypothetical protein JCGZ_19441	Jatropha curcas	XP_012081951.1
TRINITY_DN6617_c0_g1_i1_4	7,27E-114	332	XP_018823640.1	glutamine synthetase nodule isozyme-like	Juglans regia	XP_014495844.1

TRINITY_DN8937_c0_g1_i1_1	0	1080	XP_018831656.1	probable aldehyde dehydrogenase isoform X2	Juglans regia	XP_018831655.1
TRINITY_DN8063_c0_g1_i1_3	2,73E-152	432	XP_018807637.1	soluble inorganic pyrophosphatase 4 isoform X1	Juglans regia	XP_018807638.1
TRINITY_DN3510_c0_g1_i2_1	4,21E-134	392	XP_018841836.1	protein SLOW GREEN 1, chloroplastic	Juglans regia	ONI31974.1
TRINITY_DN3885_c0_g1_i1_3	6,30E-126	373	XP_018825590.1	probable pectinesterase/pectinesterase inhibitor 21	Juglans regia	ONI28224.1
TRINITY_DN11597_c1_g2_i2_1	0	1415	ALO24186.1	H+-pyrophosphatase	Ammopiptanthus nanus	GAU11922.1
TRINITY_DN4297_c0_g1_i1_2	0	1884	XP_018849376.1	phosphoenolpyruvate carboxylase, housekeeping isozyme	Juglans regia	XP_018822521.1
TRINITY_DN11427_c0_g1_i3_2	0	572	OAY60240.1	hypothetical protein MANES_01G097600	Manihot esculenta	XP_018816849.1
TRINITY_DN8289_c0_g1_i2_3	0	1476	XP_018835062.1	heat shock 70 kDa protein 17	Juglans regia	ONI17954.1
TRINITY_DN9771_c0_g1_i4_2	0	1078	XP_018809366.1	probable methyltransferase PMT18	Juglans regia	XP_018844923.1
TRINITY_DN11254_c0_g1_i1_3	0	827	XP_018829690.1	eukaryotic peptide chain release factor GTP-binding subunit ERF3A isoform X1	Juglans regia	XP_018829691.1
TRINITY_DN11103_c0_g1_i2_3	0	930	XP_018848571.1	dihydrolipoyllysine-residue acetyltransferase component 2 of pyruvate dehydrogenase complex, mitochondrial-like	Juglans regia	XP_018835126.1
TRINITY_DN11548_c1_g1_i1_3	2,72E-62	197	XP_018837465.1	uncharacterized protein At5g48480-like	Juglans regia	XP_018858259.1
TRINITY_DN10949_c0_g1_i1_1	0	1170	XP_018826449.1	succinate dehydrogenase [ubiquinone] flavoprotein subunit 1, mitochondrial	Juglans regia	OAY57384.1
TRINITY_DN11059_c0_g1_i1_1	3,85E-171	481	XP_018845359.1	mitochondrial outer membrane protein porin 2-like	Juglans regia	XP_018849544.1
TRINITY_DN3142_c1_g1_i1_1	3,17E-82	265	OAY35576.1	hypothetical protein MANES_12G113500	Manihot esculenta	OAY35575.1
TRINITY_DN10281_c0_g2_i1_2	4,15E-94	275	XP_018823169.1	60S ribosomal protein L27a-3-like	Juglans regia	KDP31039.1
TRINITY_DN10506_c0_g1_i1_2	0	540	XP_018815367.1	NADP-dependent D-sorbitol-6-phosphate dehydrogenase-like	Juglans regia	OAY52428.1
TRINITY_DN9505_c0_g2_i1_1	0	1518	XP_018824768.1	sucrose synthase 2	Juglans regia	AGQ57013.1
TRINITY_DN11355_c0_g1_i2_1	0	611	XP_018829694.1	guanine nucleotide-binding protein subunit beta-like protein	Juglans regia	XP_018860423.1
TRINITY_DN6984_c0_g1_i1_1	5,04E-176	496	XP_018815358.1	ubiquitin fusion degradation protein 1 homolog	Juglans regia	XP_015957218.1
TRINITY_DN9211_c0_g2_i1_1	2,57E-151	431	XP_018810444.1	peptide methionine sulfoxide reductase A1-like	Juglans regia	XP_020962619.1
TRINITY_DN3640_c0_g1_i2_2	9,00E-102	297	XP_018849930.1	rho GDP-dissociation inhibitor 1-like	Juglans regia	KOM46347.1
TRINITY_DN11606_c0_g1_i1_4	0	578	XP_018819193.1	cinnamoyl-CoA reductase 1	Juglans regia	ONH99805.1
TRINITY_DN9177_c0_g2_i1_2	0	1811	OAY27565.1	hypothetical protein MANES_16G135200	Manihot esculenta	OAY27566.1
TRINITY_DN11073_c0_g2_i1_2	0	587	XP_018838486.1	UDP-glycosyltransferase 79B30 isoform X2	Juglans regia	XP_018838487.1
TRINITY_DN9688_c0_g1_i3_5	7,64E-143	404	XP_018851128.1	40S ribosomal protein S5	Juglans regia	XP_008380691.1
TRINITY_DN5149_c0_g1_i1_1	3,25E-26	100	XP_018844150.1	auxin-induced in root cultures protein 12-like	Juglans regia	AES78980.1
TRINITY_DN9163_c0_g1_i2_2	0	744	XP_018840769.1	protein disulfide isomerase-like 2-3	Juglans regia	XP_018827031.1

TRINITY_DN9921_c0_g1_i1_2	0	1028	XP_018810822.1	T-complex protein 1 subunit theta	Juglans regia	KHN00674.1
TRINITY_DN8108_c0_g1_i1_2	0	970	XP_018833427.1	glycerophosphodiester phosphodiesterase GDPDL7	Juglans regia	XP_018850343.1
TRINITY_DN11594_c0_g2_i5_1	1,32E-120	353	OAY31304.1	hypothetical protein MANES_14G101300	Manihot esculenta	KYP42200.1
TRINITY_DN7706_c0_g2_i2_2	1,92E-118	340	KHN10552.1	40S ribosomal protein S4	Glycine soja	XP_006576177.1
TRINITY_DN11322_c1_g1_i2_3	4,41E-158	443	AFK38655.1	unknown	Lotus japonicus	XP_004502806.1
TRINITY_DN6946_c0_g1_i1_2	0	672	XP_018851843.1	protein STRICTOSIDINE SYNTHASE-LIKE 3-like	Juglans regia	XP_018844479.1
TRINITY_DN11349_c1_g2_i4_3	0	785	KYP63219.1	hypothetical protein KK1_017786	Cajanus cajan	XP_020220874.1
TRINITY_DN5652_c0_g3_i1_4	6,53E-27	99,4	XP_018830082.1	desiccation protectant protein Lea14 homolog	Juglans regia	XP_018845104.1
TRINITY_DN11033_c0_g1_i4_5	7,54E-110	319	OAY59659.1	hypothetical protein MANES_01G048900	Manihot esculenta	OAY56354.1
TRINITY_DN3347_c0_g1_i1_2	1,37E-156	454	XP_018807664.1	subtilisin-like protease SBT1.7, partial	Juglans regia	XP_018851647.1
TRINITY_DN6901_c0_g1_i1_3	1,25E-79	238	AAK01235.1|AF327622_1 minor allergen hazelnut profilin	Corylus avellana		AAK01236.1|AF327623_1 minor allergen hazelnut profilin
TRINITY_DN5552_c0_g1_i1_1	2,09E-136	389	XP_018813989.1	vesicle transport v-SNARE 13-like	Juglans regia	XP_018813990.1
TRINITY_DN10237_c0_g3_i1_1	0	1726	OAY37891.1	hypothetical protein MANES_11G137000	Manihot esculenta	KDP44163.1
TRINITY_DN11143_c0_g1_i5_1	3,25E-160	467	XP_018847175.1	heterogeneous nuclear ribonucleoprotein 1-like	Juglans regia	XP_018827257.1
TRINITY_DN1882_c0_g1_i2_3	0	713	XP_018848751.1	acetyl-CoA acetyltransferase, cytosolic 1 isoform X2	Juglans regia	XP_018848747.1
TRINITY_DN10939_c0_g1_i1_1	0	824	XP_018858191.1	citrate synthase, mitochondrial	Juglans regia	XP_018858196.1
TRINITY_DN7127_c0_g1_i1_1	0	868	ONI09316.1	hypothetical protein PRUPE_5G231400	Prunus persica	XP_007210883.1
TRINITY_DN11501_c0_g1_i3_2	0	854	XP_018851852.1	5-methyltetrahydropteroyltriglutamate--homocysteine methyltransferase-like	Juglans regia	ONH94297.1
TRINITY_DN9883_c0_g1_i1_1	4,70E-163	463	XP_018852330.1	60S ribosomal protein L5	Juglans regia	XP_018840429.1
TRINITY_DN10759_c0_g1_i2_5	0	684	XP_012088757.1	pyruvate dehydrogenase E1 component subunit beta-1, mitochondrial isoform X2	Jatropha curcas	XP_012088758.1
TRINITY_DN11019_c0_g1_i2_2	0	955	XP_018818494.1	UDP-glucose 6-dehydrogenase 4	Juglans regia	XP_018831898.1
TRINITY_DN10818_c0_g1_i3_1	1,22E-155	440	XP_018840931.1	60S ribosomal protein L7-2-like	Juglans regia	XP_018840932.1
TRINITY_DN20642_c0_g1_i1_4	5,40E-117	339	XP_018856378.1	beta-fructofuranosidase, insoluble isoenzyme 1-like, partial	Juglans regia	XP_018837352.1
TRINITY_DN9556_c1_g1_i2_1	4,86E-134	382	KDP22561.1	hypothetical protein JCGZ_26392	Jatropha curcas	XP_012090621.1
TRINITY_DN10502_c0_g2_i8_3	0	1958	XP_018845797.1	glycine dehydrogenase (decarboxylating), mitochondrial	Juglans regia	XP_009361869.1
TRINITY_DN10701_c0_g1_i1_2	3,65E-158	447	XP_018834440.1	40S ribosomal protein S2-4-like	Juglans regia	XP_018837209.1
TRINITY_DN11433_c0_g1_i2_1	0	1726	XP_018845914.1	coatomer subunit beta'-2-like isoform X1	Juglans regia	XP_018845915.1
TRINITY_DN6503_c0_g2_i1_1	1,92E-172	488	XP_018846015.1	60S acidic ribosomal protein P0-like	Juglans regia	OIW02717.1
TRINITY_DN6738_c0_g1_i1_3	1,74E-81	246	XP_018836953.1	early nodulin-like protein 1	Juglans regia	XP_018832258.1
TRINITY_DN9643_c0_g1_i1_2	0	672	XP_014518753.1	ferredoxin--NADP reductase, root isozyme, chloroplastic	Vigna radiata var. radiata	XP_020221626.1
TRINITY_DN2791_c0_g1_i1_3	3,25E-117	341	XP_018808748.1	adenine phosphoribosyltransferase 1-like	Juglans regia	XP_004501529.1
TRINITY_DN11325_c0_g1_i1_1	2,09E-84	253	XP_018833404.1	40S ribosomal protein S12-like	Juglans regia	XP_018835263.1

TRINITY_DN7495_c0_g1_i1_1	2,28E-93	279	XP_018849369.1	nascent polypeptide-associated complex subunit alpha-like protein 1	Juglans regia	XP_008231597.1
TRINITY_DN2602_c0_g1_i2_3	0	906	XP_018842622.1	pyruvate kinase isozyme G, chloroplastic isoform X2	Juglans regia	XP_018842621.1
TRINITY_DN11605_c1_g2_i1_4	2,22E-50	166	XP_009364401.1	outer envelope pore protein 16, chloroplastic-like	Pyrus x bretschneideri	XP_009364415.1
TRINITY_DN6250_c0_g1_i2_3	0	1090	XP_018805414.1	delta(24)-sterol reductase	Juglans regia	XP_018805415.1
TRINITY_DN6615_c0_g2_i1_4	1,08E-137	388	AFP43693.1	actin 1, partial	Eriobotrya japonica	ABU68265.1
TRINITY_DN1128_c0_g2_i1_2	2,44E-47	155	XP_018838929.1	uncharacterized protein LOC109004735 isoform X5	Juglans regia	XP_018838927.1
TRINITY_DN4481_c0_g1_i3_5	1,98E-125	359	XP_018825022.1	60S ribosomal protein L15-1 isoform X1	Juglans regia	XP_018825023.1
TRINITY_DN1332_c0_g1_i1_2	2,25E-136	389	XP_018858051.1	endonuclease 2 isoform X2	Juglans regia	XP_008339659.1
TRINITY_DN10179_c0_g1_i1_1	0	748	XP_018860760.1	probable pectinesterase/pectinesterase inhibitor 21	Juglans regia	KDP23449.1
TRINITY_DN5568_c0_g1_i1_2	4,01E-136	397	XP_018807889.1	heterogeneous nuclear ribonucleoprotein 1-like	Juglans regia	XP_018810068.1
TRINITY_DN11161_c0_g2_i1_1	6,33E-43	141	OAY23711.1	hypothetical protein MANES_18G101100	Manihot esculenta	XP_018821061.1
TRINITY_DN4141_c0_g1_i1_2	0	1016	XP_018842240.1	biotin carboxylase 1, chloroplastic isoform X1	Juglans regia	XP_018842244.1
TRINITY_DN15874_c0_g1_i1_6	1,06E-80	253	XP_018859093.1	probable pectinesterase/pectinesterase inhibitor 51	Juglans regia	XP_018842710.1
TRINITY_DN10532_c0_g1_i1_4	6,91E-157	440	XP_018849247.1	ribulose-phosphate 3-epimerase, cytoplasmic isoform	Juglans regia	XP_008379127.1
TRINITY_DN6875_c0_g1_i1_3	4,53E-171	481	KDP41387.1	hypothetical protein JCGZ_15794	Jatropha curcas	XP_012067879.1
TRINITY_DN7117_c0_g2_i2_1	2,43E-94	277	OAY42674.1	hypothetical protein MANES_08G007000	Manihot esculenta	OAY38010.1
TRINITY_DN19584_c0_g1_i1_1	1,12E-150	439	XP_018850062.1	acyl-CoA-binding domain-containing protein 4	Juglans regia	ONI04459.1
TRINITY_DN11441_c0_g1_i2_3	0	1121	XP_018839329.1	methylenetetrahydrofolate reductase 2-like	Juglans regia	XP_018858229.1
TRINITY_DN11585_c0_g1_i2_3	0	1316	XP_018815731.1	glyoxysomal fatty acid beta-oxidation multifunctional protein MFP-a-like	Juglans regia	XP_018825769.1
TRINITY_DN9778_c0_g1_i2_1	0	1135	ONI11196.1	hypothetical protein PRUPE_4G091800	Prunus persica	ONI11197.1
TRINITY_DN10084_c0_g1_i3_3	0	609	XP_018855479.1	probable L-ascorbate peroxidase 6, chloroplastic isoform X2	Juglans regia	XP_018855478.1
TRINITY_DN8707_c0_g1_i1_4	2,80E-114	335	OAY32872.1	hypothetical protein MANES_13G052100	Manihot esculenta	XP_009371092.1
TRINITY_DN8413_c0_g1_i1_3	6,32E-94	275	XP_018816977.1	40S ribosomal protein S19-3	Juglans regia	KHN12325.1
TRINITY_DN11449_c0_g2_i5_3	0	1406	XP_018809529.1	phosphoenolpyruvate carboxylase 4-like isoform X1	Juglans regia	XP_018809531.1
TRINITY_DN21888_c0_g1_i1_3	2,50E-19	85,9	XP_018824867.1	ras GTPase-activating protein-binding protein 2 isoform X1	Juglans regia	XP_018824868.1
TRINITY_DN10361_c1_g2_i1_1	3,42E-122	354	XP_018834379.1	60S ribosomal protein L6	Juglans regia	XP_009354690.1
TRINITY_DN7454_c0_g1_i1_5	2,02E-88	262	XP_009351382.2	nudix hydrolase 26, chloroplastic-like	Pyrus x bretschneideri	XP_009351383.2
TRINITY_DN11044_c0_g1_i1_3	0	865	OAY58939.1	hypothetical protein MANES_02G218200	Manihot esculenta	XP_008243091.1

TRINITY_DN10694_c0_g1_i1_2	0	530	XP_018839634.1	S-formylglutathione hydrolase	Juglans regia	OAY43221.1
TRINITY_DN7765_c0_g1_i1_3	2,50E-82	248	XP_018819687.1	40S ribosomal protein S14-3-like	Juglans regia	XP_018859543.1
TRINITY_DN10259_c0_g1_i1_4	1,27E-123	359	XP_018834430.1	ATP synthase subunit O, mitochondrial-like	Juglans regia	XP_008231281.1
TRINITY_DN10666_c0_g1_i1_3	0	1115	XP_018807321.1	aconitate hydratase 1	Juglans regia	KRH28848.1
TRINITY_DN8743_c0_g1_i2_2	3,57E-27	107	ONH95541.1	hypothetical protein PRUPE_7G076400	Prunus persica	ONH95542.1
TRINITY_DN7469_c0_g1_i1_3	1,37E-161	454	XP_018820822.1	(DL)-glycerol-3-phosphatase 2	Juglans regia	XP_008223698.1
TRINITY_DN9596_c0_g1_i2_1	0	758	XP_018823042.1	proton pump-interactor 1-like	Juglans regia	XP_018823042.1
TRINITY_DN9658_c0_g1_i1_4	0	775	XP_018849591.1	dolichyl-diphosphooligosaccharide--protein glycosyltransferase 48 kDa subunit-like isoform X2	Juglans regia	XP_004507412.1
TRINITY_DN7483_c0_g2_i2_4	1,31E-112	325	OAY49459.1	hypothetical protein MANES_05G057900	Manihot esculenta	XP_018819121.1
TRINITY_DN10418_c0_g1_i1_1	3,64E-127	369	XP_018809757.1	calcyclin-binding protein-like	Juglans regia	XP_018819738.1
TRINITY_DN6749_c0_g1_i3_2	0	979	XP_018836262.1	pyrophosphate--fructose 6-phosphate 1-phosphotransferase subunit beta-like	Juglans regia	XP_018829538.1
TRINITY_DN10064_c0_g1_i1_6	3,74E-74	229	XP_018832799.1	uncharacterized protein At3g03773-like	Juglans regia	XP_008237430.1
TRINITY_DN10803_c0_g1_i1_1	1,64E-09	56,2	XP_018811921.1	elicitor-responsive protein 3	Juglans regia	XP_009340615.1
TRINITY_DN10303_c0_g1_i1_3	0	732	XP_018837049.1	cysteine proteinase RD21A-like	Juglans regia	XP_018837050.1
TRINITY_DN2784_c0_g1_i1_3	1,47E-146	428	XP_018839074.1	UDP-sugar pyrophosphorylase-like	Juglans regia	XP_018849179.1
TRINITY_DN12921_c0_g1_i1_6	1,28E-120	346	XP_018825134.1	ubiquitin carboxyl-terminal hydrolase 3-like	Juglans regia	XP_018825135.1
TRINITY_DN9516_c0_g1_i2_6	0	1238	XP_018840650.1	transmembrane 9 superfamily member 11 isoform X1	Juglans regia	XP_018840651.1
TRINITY_DN9036_c0_g1_i1_2	2,76E-71	217	XP_018822894.1	uncharacterized protein LOC108992718	Juglans regia	XP_018850381.1
TRINITY_DN20791_c0_g1_i1_4	3,84E-43	147	XP_018849298.1	E3 ubiquitin-protein ligase RING1-like	Juglans regia	XP_020224288.1
TRINITY_DN6266_c0_g1_i2_5	0	553	XP_018851614.1	glycerol-3-phosphate dehydrogenase SDP6, mitochondrial	Juglans regia	XP_018822930.1
TRINITY_DN11086_c0_g1_i1_1	7,63E-173	484	XP_018837325.1	proteasome subunit alpha type-5	Juglans regia	XP_018837326.1
TRINITY_DN3111_c0_g2_i1_2	0	974	XP_018813437.1	probable cytosolic oligopeptidase A	Juglans regia	XP_018850785.1
TRINITY_DN10597_c0_g2_i1_2	0	1867	XP_018819183.1	ubiquitin-activating enzyme E1 1-like	Juglans regia	XP_018828478.1
TRINITY_DN10098_c0_g1_i3_1	0	671	KDP43753.1	hypothetical protein JCGZ_22380	Jatropha curcas	OAY60978.1
TRINITY_DN6445_c0_g1_i1_3	1,20E-153	442	ONI10836.1	hypothetical protein PRUPE_4G070900	Prunus persica	XP_007213451.2
TRINITY_DN10634_c0_g1_i2_4	4,81E-126	364	OAY46654.1	hypothetical protein MANES_06G016600	Manihot esculenta	XP_008218606.1
TRINITY_DN5741_c0_g1_i2_3	6,10E-60	191	KDP22223.1	hypothetical protein JCGZ_26054	Jatropha curcas	XP_012090181.1
TRINITY_DN7128_c0_g2_i1_1	1,68E-152	435	XP_018856017.1	ribosome-recycling factor, chloroplastic isoform X1	Juglans regia	XP_018856023.1
TRINITY_DN11601_c0_g2_i2_5	0	970	XP_018852509.1	puromycin-sensitive aminopeptidase isoform X2	Juglans regia	XP_018852512.1
TRINITY_DN9962_c0_g2_i1_2	0	850	XP_018814064.1	reticuline oxidase-like protein	Juglans regia	XP_018808169.1
TRINITY_DN10845_c0_g1_i2_1	0	707	XP_018851483.1	isocitrate dehydrogenase [NAD] catalytic subunit 5, mitochondrial isoform X1	Juglans regia	ONI03044.1
TRINITY_DN10542_c0_g1_i1_2	1,58E-63	208	XP_018824896.1	glycine-rich RNA-binding protein 3, mitochondrial-like	Juglans regia	XP_018824896.1
TRINITY_DN7441_c0_g1_i1_6	2,94E-11	63,2	AGC51777.1	dehydrin protein	Manihot esculenta	OAY50493.1
TRINITY_DN10521_c0_g1_i1_3	0	775	XP_018827302.1	succinate--CoA ligase [ADP-forming] subunit beta, mitochondrial	Juglans regia	XP_018847166.1

TRINITY_DN10791_c2_g1_i3_2	2,93E-174	490	XP_018841148.1	12-oxophytodienoate reductase 2-like	Juglans regia	OAY23951.1
TRINITY_DN11097_c0_g1_i2_6	0	603	OAY50881.1	hypothetical protein MANES_05G169500	Manihot esculenta	XP_009364054.1
TRINITY_DN8226_c0_g1_i1_1	0	836	XP_018829248.1	monodehydroascorbate reductase 5, mitochondrial	Juglans regia	XP_012086827.1
TRINITY_DN8836_c0_g1_i1_2	0	617	XP_018846192.1	aminoacyl tRNA synthase complex-interacting multifunctional protein 1 isoform X1	Juglans regia	XP_018846193.1
TRINITY_DN9745_c0_g1_i2_1	0	1227	XP_018849604.1	programmed cell death protein 4-like	Juglans regia	XP_018849604.1
TRINITY_DN6745_c0_g1_i6_1	5,09E-170	483	XP_018811421.1	polyadenylate-binding protein RBP45C-like	Juglans regia	XP_018811421.1
TRINITY_DN10651_c0_g1_i1_1	0	892	XP_018844173.1	peptidyl-prolyl cis-trans isomerase FKBP62-like isoform X1	Juglans regia	KDP45275.1
TRINITY_DN3758_c0_g1_i1_5	5,69E-33	118	XP_009366604.1	60S acidic ribosomal protein P1-like	Pyrus x bretschneideri	XP_008376223.1
TRINITY_DN9555_c0_g1_i2_4	4,38E-42	141	KRH17781.1	hypothetical protein GLYMA_13G015400	Glycine max	BAU03535.1
TRINITY_DN8044_c0_g1_i1_2	0	1007	XP_018858088.1	pyruvate kinase, cytosolic isozyme-like	Juglans regia	XP_018858157.1
TRINITY_DN5302_c0_g2_i1_4	2,23E-84	254	XP_015950188.1	NADPH-dependent aldo-keto reductase, chloroplastic	Arachis duranensis	XP_016183769.1
TRINITY_DN9331_c0_g1_i5_4	0	817	XP_018828790.1	dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1B	Juglans regia	KDP44377.1
TRINITY_DN10842_c0_g1_i1_3						
TRINITY_DN10737_c0_g1_i2_1	0	613	XP_018839416.1	perakine reductase-like	Juglans regia	XP_018818666.1
TRINITY_DN11246_c0_g1_i1_1	2,45E-104	303	dbj|BAT97743.1	hypothetical protein VIGAN_09127500	Vigna angularis var. angularis	XP_017441415.1
TRINITY_DN10802_c0_g1_i2_2	0	546	XP_018838600.1	protein SGT1 homolog	Juglans regia	KDP22207.1
TRINITY_DN10937_c0_g1_i1_3	1,27E-158	447	XP_018860017.1	60S ribosomal protein L8-1-like	Juglans regia	XP_018822032.1
TRINITY_DN5821_c0_g1_i2_2	2,16E-79	243	XP_018815170.1	21 kDa protein	Juglans regia	KOM39461.1
TRINITY_DN7491_c0_g1_i1_1	3,41E-158	449	XP_018812091.1	60S ribosomal protein L7a-1	Juglans regia	XP_018815479.1
TRINITY_DN10883_c0_g1_i2_4	4,47E-159	451	XP_018832945.1	peptidyl-prolyl cis-trans isomerase A1 isoform X1	Juglans regia	XP_018832946.1
TRINITY_DN9369_c0_g1_i1_2	3,54E-146	417	XP_018823879.1	translocon-associated protein subunit alpha-like	Juglans regia	XP_018841445.1
TRINITY_DN15371_c0_g1_i1_1	4,33E-32	119	XP_018832135.1	probable pectinesterase/pectinesterase inhibitor 21, partial	Juglans regia	XP_018825590.1
TRINITY_DN8535_c0_g1_i1_3	0	760	XP_018822783.1	pyruvate dehydrogenase E1 component subunit alpha-3, chloroplastic	Juglans regia	OAY48935.1
TRINITY_DN11283_c0_g1_i3_1	2,94E-171	481	XP_018824212.1	proteasome subunit alpha type-4	Juglans regia	XP_008371922.1
TRINITY_DN10469_c0_g2_i1_3	3,42E-106	310	XP_018841792.1	60S ribosomal protein L18-2-like	Juglans regia	XP_018815940.1
TRINITY_DN6972_c0_g1_i1_5	1,75E-112	331	XP_018820307.1	vesicle-associated protein 1-2-like isoform X2	Juglans regia	XP_018853856.1
TRINITY_DN9766_c0_g1_i2_1	0	541	XP_018821649.1	gamma carbonic anhydrase 1, mitochondrial-like	Juglans regia	XP_018843856.1
TRINITY_DN6771_c0_g1_i1_1	1,83E-175	505	XP_018839434.1	pyruvate kinase isozyme A, chloroplastic-like	Juglans regia	XP_008353310.1

TRINITY_DN11054_c0_g1_i1_2	0	1008	XP_018807686.1	3-isopropylmalate dehydratase large subunit, chloroplastic-like	Juglans regia	XP_018820100.1
TRINITY_DN11476_c0_g1_i2_1	0	755	OAY34237.1	hypothetical protein MANES_12G005200	Manihot esculenta	XP_018815635.1
TRINITY_DN9150_c0_g1_i3_1	4,53E-81	241	OAY55416.1	hypothetical protein MANES_03G152300	Manihot esculenta	AAT84459.1
TRINITY_DN8849_c0_g2_i3_2	2,21E-71	218	XP_008354935.1	uncharacterized protein LOC103418606	Malus domestica	XP_018504852.1
TRINITY_DN7905_c0_g1_i1_5	1,84E-114	333	XP_018816103.1	succinate dehydrogenase subunit 5, mitochondrial-like	Juglans regia	XP_009367369.1
TRINITY_DN9056_c0_g1_i1_6	8,79E-98	285	XP_018813840.1	ferredoxin, root R-B1-like	Juglans regia	ONI01252.1
TRINITY_DN8426_c0_g1_i2_3	0	547	XP_018828606.1	peroxidase 4-like	Juglans regia	XP_018806705.1
TRINITY_DN4385_c0_g1_i1_2	0	697	XP_018843013.1	NPL4-like protein 1	Juglans regia	XP_008234969.1
TRINITY_DN21126_c0_g1_i1_1						
TRINITY_DN11515_c0_g1_i3_1	0	818	OAY44035.1	hypothetical protein MANES_08G117200	Manihot esculenta	XP_018841804.1
TRINITY_DN12722_c0_g1_i1_1	7,15E-164	469	XP_009343360.1	putative pectinesterase 63	Pyrus x bretschneideri	XP_008391732.1
TRINITY_DN11139_c0_g1_i1_3	0	986	XP_018823517.1	plastidic ATP/ADP-transporter-like	Juglans regia	XP_018827696.1
TRINITY_DN10080_c0_g1_i1_1	0	667	XP_018841575.1	uncharacterized protein At2g17340-like	Juglans regia	XP_018841576.1
TRINITY_DN8178_c0_g1_i2_3	1,66E-116	339	XP_018822554.1	probable fructokinase-4	Juglans regia	KHN06200.1
TRINITY_DN130_c0_g1_i1_2	0	663	XP_018845963.1	elongation factor Tu, mitochondrial-like	Juglans regia	XP_018847444.1
TRINITY_DN11280_c0_g1_i4_3	0	960	XP_018843166.1	proline--tRNA ligase, cytoplasmic-like isoform X1	Juglans regia	XP_018843167.1
TRINITY_DN11620_c0_g1_i1_2	7,41E-172	482	XP_018835046.1	proteasome subunit alpha type-6 isoform X1	Juglans regia	XP_018835047.1
TRINITY_DN11411_c1_g1_i3_5	0	771	XP_018832890.1	S-adenosylmethionine synthase 1	Juglans regia	XP_009363082.1
TRINITY_DN9704_c0_g1_i1_2	2,53E-92	272	XP_019463034.1	40S ribosomal protein S15a-1 isoform X3	Lupinus angustifolius	XP_012081549.1
TRINITY_DN2711_c0_g1_i1_3	0	665	XP_018833157.1	serine carboxypeptidase-like 51	Juglans regia	OAY51501.1
TRINITY_DN10623_c0_g1_i2_5	4,65E-47	156	XP_018821920.1	40S ribosomal protein S26-1-like	Juglans regia	XP_018810475.1
TRINITY_DN9395_c0_g2_i1_3	0	783	XP_018827585.1	fumarylacetoacetase	Juglans regia	KDP37782.1
TRINITY_DN10777_c0_g1_i2_2	1,51E-126	359	XP_018808681.1	ubiquitin-fold modifier-conjugating enzyme 1	Juglans regia	KDP41535.1
TRINITY_DN8939_c0_g1_i1_1	0	718	XP_018814264.1	phosphomethylethanolamine N-methyltransferase-like	Juglans regia	XP_018857980.1
TRINITY_DN14055_c0_g1_i1_6	5,27E-41	149	XP_018819183.1	ubiquitin-activating enzyme E1 1-like	Juglans regia	XP_018828478.1
TRINITY_DN5112_c0_g2_i3_3	0	710	XP_009339277.1	DNA damage-inducible protein 1	Pyrus x bretschneideri	XP_008384617.1
TRINITY_DN3053_c0_g1_i1_6	1,29E-54	176	XP_018854383.1	UDP-glycosyltransferase 79B30-like	Juglans regia	XP_018838486.1
TRINITY_DN3542_c0_g2_i1_1	2,68E-137	389	XP_018844636.1	PITH domain-containing protein 1	Juglans regia	AFK35651.1
TRINITY_DN8778_c0_g1_i2_2	5,01E-141	405	XP_008242359.1	uncharacterized protein LOC103340695 isoform X4	Prunus mume	ONH97760.1
TRINITY_DN8889_c0_g1_i1_1	0	527	XP_018820940.1	flavonol synthase/flavanone 3-hydroxylase-like	Juglans regia	XP_009367022.1
TRINITY_DN6086_c0_g1_i1_1	3,78E-156	440	XP_018860145.1	probable methyltransferase At1g27930	Juglans regia	KDP46273.1
TRINITY_DN9418_c0_g1_i2_5	0	588	XP_018859966.1	hexokinase-1-like isoform X2	Juglans regia	KYP67483.1
TRINITY_DN9810_c0_g1_i1_3	0	743	XP_018844405.1	pyruvate dehydrogenase E1 component subunit alpha-1, mitochondrial-like	Juglans regia	KDP21276.1

TRINITY_DN6193_c0_g1_i1_1	9,03E-74	224	XP_008242440.1	60S ribosomal protein L28-1	Prunus mume	ONH97860.1
TRINITY_DN9474_c1_g1_i1_5	2,77E-105	305	AFK36220.1	unknown	Lotus japonicus	XP_004489035.1
TRINITY_DN10292_c0_g1_i2_6	1,42E-63	202	XP_018820585.1	uncharacterized protein LOC108990917	Juglans regia	XP_018814019.1
TRINITY_DN11230_c0_g2_i2_6	3,77E-96	281	emb|CAW56310.1	unnamed protein product	Glycine max	CBC31240.1
TRINITY_DN10344_c0_g1_i1_2	0	627	XP_018829145.1	ankyrin repeat domain-containing protein 2B-like	Juglans regia	XP_018841596.1
TRINITY_DN11434_c0_g1_i1_2	1,38E-95	281	XP_008224314.1	40S ribosomal protein S18	Prunus mume	XP_008390888.1
TRINITY_DN11361_c0_g1_i1_2	0	764	XP_018833171.1	UDP-D-apiose/UDP-D-xylose synthase 2	Juglans regia	XP_008385469.1
TRINITY_DN10628_c0_g1_i1_3	6,93E-138	394	XP_018815110.1	CBS domain-containing protein CBSX3, mitochondrial-like	Juglans regia	OAY58828.1
TRINITY_DN5840_c0_g1_i1_1	9,44E-89	259	AAQ08198.1	eukaryotic translation initiation factor 5A isoform VIII, partial	Hevea brasiliensis	XP_018823424.1
TRINITY_DN10700_c0_g1_i1_3	6,34E-82	251	XP_018832602.1	probable pectinesterase/pectinesterase inhibitor 21	Juglans regia	XP_008351186.1
TRINITY_DN10484_c2_g1_i2_1	4,66E-141	402	OAY32771.1	hypothetical protein MANES_13G044600	Manihot esculenta	XP_018840734.1
TRINITY_DN11431_c0_g1_i3_5	3,35E-44	149	KDP20078.1	hypothetical protein JCGZ_05847	Jatropha curcas	XP_012092953.1
TRINITY_DN9680_c0_g1_i1_1	5,28E-75	227	XP_018838135.1	uncharacterized protein LOC109004143 isoform X1	Juglans regia	XP_018838136.1
TRINITY_DN53_c0_g1_i1_5	6,29E-57	191	XP_017180254.1	subtilisin-like protease SBT5.4	Malus domestica	XP_008353281.1
TRINITY_DN13553_c0_g1_i1_2	2,78E-48	167	XP_018816352.1	villin-3-like isoform X3	Juglans regia	XP_018816351.1
TRINITY_DN10106_c0_g1_i2_1	0	521	XP_018816665.1	14-3-3-like protein A	Juglans regia	XP_018816666.1
TRINITY_DN10104_c0_g2_i1_2	2,23E-134	397	OAY38507.1	hypothetical protein MANES_10G020400	Manihot esculenta	XP_009346996.2
TRINITY_DN11228_c0_g1_i1_3	4,65E-34	119	XP_008223181.1	heat shock factor-binding protein 1	Prunus mume	ONI28303.1
TRINITY_DN9356_c0_g1_i2_6	3,23E-177	511	XP_018856959.1	coiled-coil domain-containing protein 18-like	Juglans regia	ONI33943.1
TRINITY_DN10740_c0_g1_i5_5	0	672	ONI20047.1	hypothetical protein PRUPE_3G312200	Prunus persica	XP_007215551.1
TRINITY_DN15242_c0_g1_i1_5	1,42E-52	168	XP_018833870.1	1-Cys peroxiredoxin	Juglans regia	XP_016190426.1
TRINITY_DN10478_c0_g2_i1_1						
TRINITY_DN10321_c0_g1_i2_2	2,72E-74	226	OAY33633.1	hypothetical protein MANES_13G112100	Manihot esculenta	KDP32073.1
TRINITY_DN17896_c0_g1_i1_5	0	642	XP_018842745.1	stomatin-like protein 2, mitochondrial	Juglans regia	XP_018828153.1
TRINITY_DN5702_c0_g1_i1_3						
TRINITY_DN6940_c0_g9_i5_6	6,46E-113	326	KDP28201.1	hypothetical protein JCGZ_13972	Jatropha curcas	XP_012082823.1
TRINITY_DN10205_c0_g1_i1_2	0	684	XP_018841544.1	ubiquitin domain-containing protein DSK2a-like isoform X3	Juglans regia	XP_018841547.1
TRINITY_DN10892_c0_g1_i2_4	0	1444	XP_018840323.1	V-type proton ATPase subunit a3-like	Juglans regia	ONH91014.1
TRINITY_DN11295_c0_g2_i3_1	0	902	XP_018857292.1	glutathione reductase, cytosolic-like	Juglans regia	XP_018857293.1
TRINITY_DN10858_c0_g1_i1_5	0	644	XP_018818486.1	erlin-2-B	Juglans regia	XP_018818487.1
TRINITY_DN10871_c0_g1_i3_2	0	933	AHJ79156.1	betaine-aldehyde dehydrogenase	Juglans regia	XP_018831659.1
TRINITY_DN6968_c0_g1_i1_1	1,26E-158	449	XP_018844949.1	20 kDa chaperonin, chloroplastic-like	Juglans regia	XP_018844947.1
TRINITY_DN6689_c0_g1_i1_2	1,58E-164	468	XP_018814780.1	3-oxoacyl-[acyl-carrier-protein reductase 4 isoform X2	Juglans regia	XP_018814779.1
TRINITY_DN10111_c0_g1_i3_2	0	941	KDP26716.1	hypothetical protein JCGZ_17874	Jatropha curcas	XP_012085554.1
TRINITY_DN9976_c0_g4_i1_4	3,55E-119	347	AAB61597.1	glutamine synthetase	Hevea brasiliensis	CBN69820.1

TRINITY_DN11601_c0_g1_i1_1	0	676	XP_018852509.1	puromycin-sensitive aminopeptidase isoform X2	Juglans regia	XP_018852512.1
TRINITY_DN4015_c0_g1_i1_2	2,44E-70	213	XP_018842089.1	basic blue protein-like	Juglans regia	AET04469.1
TRINITY_DN10140_c0_g1_i1_2	0	600	XP_018826879.1	L-galactose dehydrogenase	Juglans regia	XP_008236174.1
TRINITY_DN2592_c0_g1_i1_1	0	902	XP_018806299.1	enolase 1, chloroplastic	Juglans regia	XP_008244075.1
TRINITY_DN10378_c0_g2_i2_1	0	678	ONH93092.1	hypothetical protein PRUPE_8G212700	Prunus persica	XP_020425931.1
TRINITY_DN8575_c0_g2_i3_2	1,67E-114	329	XP_018806533.1	probable glutathione peroxidase 2	Juglans regia	BAT72709.1
TRINITY_DN11259_c0_g1_i2_5	0	1168	XP_018806016.1	vacuolar-sorting receptor 3-like	Juglans regia	XP_018846135.1
TRINITY_DN11269_c2_g1_i2_3	0	839	XP_018845033.1	eukaryotic initiation factor 4A-15-like	Juglans regia	XP_018844689.1
TRINITY_DN9965_c1_g1_i1_3	1,21E-56	177	XP_018814660.1	uncharacterized protein At2g27730, mitochondrial	Juglans regia	XP_018814661.1
TRINITY_DN9622_c1_g1_i2_2	1,22E-07	48,9	KDP45878.1	hypothetical protein JCGZ_15322	Jatropha curcas	OAY34547.1
TRINITY_DN10079_c0_g1_i1_3	0	564	XP_018856841.1	quinone oxidoreductase PIG3-like	Juglans regia	XP_016179633.1
TRINITY_DN3545_c0_g1_i2_1	9,81E-71	213	XP_018817673.1	40S ribosomal protein S9-2-like	Juglans regia	XP_018845180.1
TRINITY_DN5659_c0_g1_i1_1	0	1528	XP_018837598.1	alpha-glucan phosphorylase, H isozyme-like isoform X1	Juglans regia	XP_018837601.1
TRINITY_DN5550_c0_g1_i2_4	3,75E-41	145	XP_018816861.1	ubiquitin receptor RAD23c-like	Juglans regia	XP_018815467.1
TRINITY_DN11000_c0_g1_i1_2	2,04E-180	508	XP_018844199.1	putative quinone-oxidoreductase homolog, chloroplastic	Juglans regia	XP_018850172.1
TRINITY_DN9087_c0_g1_i2_1	8,77E-104	310	XP_018813170.1	vesicle-associated protein 1-2-like	Juglans regia	KHN04359.1
TRINITY_DN9399_c0_g1_i2_1	7,10E-138	394	XP_018841431.1	5'-methylthioadenosine/S-adenosylhomocysteine nucleosidase 2-like isoform X1	Juglans regia	XP_018815344.1
TRINITY_DN11102_c0_g1_i4_6	1,02E-172	487	XP_008225042.1	AB hydrolase superfamily protein YfhM-like	Prunus mume	ONI10358.1
TRINITY_DN7857_c0_g1_i4_2	0	1188	XP_018815161.1	peroxisomal fatty acid beta-oxidation multifunctional protein AIM1	Juglans regia	ONH98171.1
TRINITY_DN5480_c0_g1_i2_3	0	535	XP_018816315.1	ABC transporter I family member 20-like isoform X1	Juglans regia	AIU41667.1
TRINITY_DN3630_c0_g1_i1_5	0	703	XP_018837387.1	acetyl-CoA acetyltransferase, cytosolic 1	Juglans regia	XP_008224638.1
TRINITY_DN3986_c0_g2_i1_2	0	863	XP_018820151.1	external alternative NAD(P)H-ubiquinone oxidoreductase B2, mitochondrial-like	Juglans regia	XP_015943513.1
TRINITY_DN10586_c0_g1_i1_1	9,11E-79	237	XP_018840715.1	cytochrome b5, seed isoform	Juglans regia	XP_018821473.1
TRINITY_DN10813_c1_g1_i3_3	0	518	XP_018825586.1	UDP-glucuronic acid decarboxylase 4-like	Juglans regia	XP_018857609.1
TRINITY_DN21280_c0_g1_i1_3	1,82E-37	136	KDP30704.1	hypothetical protein JCGZ_16402	Jatropha curcas	XP_012080785.1
TRINITY_DN7020_c0_g1_i1_2	1,58E-71	223	XP_018833902.1	cytochrome c oxidase subunit 6b-1-like isoform X2	Juglans regia	XP_018833901.1
TRINITY_DN10799_c0_g2_i1_6	4,40E-115	349	XP_018831678.1	FAM10 family protein At4g22670-like	Juglans regia	XP_018831678.1
TRINITY_DN8664_c0_g1_i3_3	0	540	XP_018826547.1	aldose 1-epimerase	Juglans regia	ONI08609.1
TRINITY_DN9559_c0_g1_i1_3	0	709	XP_018817113.1	TOM1-like protein 2	Juglans regia	XP_018817114.1
TRINITY_DN11471_c0_g1_i3_3	2,84E-126	360	XP_018850586.1	60S ribosomal protein L18a	Juglans regia	OAY29135.1
TRINITY_DN7380_c0_g3_i1_1	4,01E-62	190	OAY21768.1	hypothetical protein MANES_S058900	Manihot esculenta	KDP37139.1
TRINITY_DN9887_c0_g1_i1_2	2,92E-86	256	XP_018853126.1	40S ribosomal protein S12-like	Juglans regia	XP_018808087.1
TRINITY_DN10568_c0_g3_i5_1	0	643	XP_018829196.1	calnexin homolog	Juglans regia	XP_018829125.1

TRINITY_DN10508_c0_g1_i1_5	7,40E-121	350	XP_018823258.1	non-functional NADPH-dependent codeinone reductase 2-like	Juglans regia	KDP38187.1
TRINITY_DN9574_c0_g1_i3_1	0	683	XP_018829628.1	malate dehydrogenase, glyoxysomal	Juglans regia	XP_018819958.1
TRINITY_DN6731_c0_g1_i1_1	0	1090	XP_018833363.1	acetyl-coenzyme A carboxylase carboxyl transferase subunit alpha, chloroplastic-like	Juglans regia	XP_018833364.1
TRINITY_DN10793_c0_g1_i1_1	0	508	XP_018823011.1	mitochondrial outer membrane protein porin of 34 kDa	Juglans regia	XP_018835940.1
TRINITY_DN10605_c0_g1_i4_2	0	1176	XP_018851318.1	serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A beta isoform	Juglans regia	XP_018829949.1
TRINITY_DN7923_c0_g1_i1_1	1,32E-141	405	XP_018817983.1	40S ribosomal protein S6-like	Juglans regia	XP_018808592.1
TRINITY_DN8263_c0_g1_i2_2	0	1072	XP_018839045.1	probable methyltransferase PMT26	Juglans regia	XP_018839046.1
TRINITY_DN5337_c0_g1_i1_4	0	850	XP_018841219.1	uncharacterized protein LOC109006407	Juglans regia	ONI23255.1
TRINITY_DN11163_c0_g1_i8_3	0	602	ONH93127.1	hypothetical protein PRUPE_8G214700	Prunus persica	ONH93128.1
TRINITY_DN10512_c1_g1_i1_2	2,26E-60	191	XP_008230471.1	putative phosphatidylglycerol/phosphatidylinositol transfer protein DDB_G0282179	Prunus mume	ONI01573.1
TRINITY_DN5432_c0_g1_i1_5	0	524	XP_018812299.1	mitochondrial outer membrane protein porin of 36 kDa	Juglans regia	XP_008339931.1
TRINITY_DN10108_c0_g1_i2_5	0	1100	XP_018842661.1	phosphoinositide phosphatase SAC6-like	Juglans regia	XP_018842662.1
TRINITY_DN10975_c0_g2_i1_3	2,34E-110	322	XP_018847195.1	eukaryotic translation initiation factor 5A-2	Juglans regia	XP_018829201.1
TRINITY_DN10736_c0_g1_i2_1	0	1055	XP_018826687.1	glucose-6-phosphate isomerase, cytosolic	Juglans regia	KRH61180.1
TRINITY_DN7422_c0_g2_i1_2	0	689	XP_018849575.1	uncharacterized protein LOC109012411 isoform X1	Juglans regia	XP_018849576.1
TRINITY_DN10308_c0_g1_i1_1	2,05E-133	379	XP_018860302.1	60S ribosomal protein L13a-4	Juglans regia	XP_018860308.1
TRINITY_DN10384_c0_g3_i1_3	0	861	XP_016204269.1	tubulin beta-1 chain	Arachis ipaensis	XP_015967408.1
TRINITY_DN3139_c0_g1_i1_2	3,19E-137	392	XP_008337994.1	proteasome subunit alpha type-7	Malus domestica	XP_009363477.1
TRINITY_DN10364_c0_g1_i3_6	3,99E-16	73,9	XP_004515192.1	uncharacterized protein LOC101514444	Cicer arietinum	ONI26968.1
TRINITY_DN20886_c0_g1_i1_5	1,29E-79	242	XP_018835853.1	thioredoxin O2, mitochondrial-like isoform X1	Juglans regia	XP_018835854.1
TRINITY_DN10883_c0_g1_i3_5	5,89E-161	455	XP_018832945.1	peptidyl-prolyl cis-trans isomerase A1 isoform X1	Juglans regia	XP_018832946.1
TRINITY_DN17539_c0_g2_i1_3	4,53E-89	289	XP_018827628.1	probable methyltransferase PMT26	Juglans regia	XP_018827629.1
TRINITY_DN10477_c0_g1_i1_1	0	1060	XP_008230393.1	T-complex protein 1 subunit zeta 1	Prunus mume	ONI18783.1
TRINITY_DN6686_c0_g1_i1_2	0	793	XP_018815316.1	coatomer subunit alpha-1	Juglans regia	XP_018840319.1
TRINITY_DN11212_c0_g1_i1_6	5,67E-148	418	XP_018814321.1	succinate dehydrogenase [ubiquinone] iron-sulfur subunit 2, mitochondrial-like	Juglans regia	XP_004488937.1
TRINITY_DN11023_c0_g1_i2_1	0	1410	ONH96238.1	hypothetical protein PRUPE_7G115400	Prunus persica	XP_007204282.1
TRINITY_DN11458_c0_g1_i1_1	0	996	XP_018812048.1	T-complex protein 1 subunit beta	Juglans regia	OAY50499.1
TRINITY_DN11615_c0_g1_i1_1	0	1195	ONI05147.1	hypothetical protein PRUPE_6G358600	Prunus persica	XP_007208057.1
TRINITY_DN4509_c0_g2_i1_3	2,93E-105	303	XP_018852574.1	UPF0587 protein C1orf123 homolog	Juglans regia	XP_014503583.1
TRINITY_DN11335_c0_g1_i1_1	0	882	XP_018837266.1	T-complex protein 1 subunit gamma isoform X1	Juglans regia	XP_018837267.1

TRINITY_DN5118_c0_g2_i1_6	4,76E-123	364	XP_018848856.1	DEAD-box ATP-dependent RNA helicase 37-like	Juglans regia	XP_018848857.1
TRINITY_DN9738_c2_g1_i2_3	1,41E-104	306	XP_018818478.1	cysteine proteinase inhibitor 6-like	Juglans regia	XP_012068733.1
TRINITY_DN11571_c2_g3_i1_1	0	821	OAY54743.1	hypothetical protein MANES_03G098100	Manihot esculenta	XP_018834544.1
TRINITY_DN17391_c0_g1_i1_5	5,26E-32	113	OAY49409.1	hypothetical protein MANES_05G054100	Manihot esculenta	KDP34869.1
TRINITY_DN10823_c0_g1_i1_1	0	986	XP_018837477.1	T-complex protein 1 subunit eta isoform X1	Juglans regia	OAY37541.1
TRINITY_DN11383_c0_g1_i1_2	9,46E-157	451	XP_018847358.1	probable polygalacturonase	Juglans regia	XP_018847365.1
TRINITY_DN6993_c0_g1_i3_2	0	986	XP_018814240.1	citrate synthase, glyoxysomal	Juglans regia	XP_018828184.1
TRINITY_DN11668_c1_g1_i1_2	1,49E-68	226	emb|CBX33398.1	atp8 (mitochondrion)	Malus domestica	YP_006666136.1
TRINITY_DN3731_c0_g1_i2_3	1,17E-144	419	XP_018847910.1	phosphoglycerate kinase, chloroplastic	Juglans regia	ONI11909.1
TRINITY_DN10138_c0_g1_i1_3	0	974	ONH97993.1	hypothetical protein PRUPE_7G222300	Prunus persica	ONH97994.1
TRINITY_DN8211_c0_g1_i2_3	0	558	XP_018850910.1	bifunctional epoxide hydrolase 2-like	Juglans regia	ONI17394.1
TRINITY_DN20888_c0_g1_i1_3	9,50E-14	69,3	XP_018843078.1	calponin homology domain-containing protein DDB_G0272472	Juglans regia	XP_018843079.1
TRINITY_DN11494_c0_g1_i2_5	7,20E-141	399	XP_018814564.1	soluble inorganic pyrophosphatase 1	Juglans regia	XP_018834262.1
TRINITY_DN7194_c1_g1_i2_2	4,64E-128	373	emb|CAA91445.1	pyruvate decarboxylase, partial	Pisum sativum	|P51851.1|PDC2_PEA RecName: Full=Pyruvate decarboxylase 2; Short=PDC
TRINITY_DN8262_c0_g1_i1_1	3,09E-163	464	XP_018840354.1	glyceraldehyde-3-phosphate dehydrogenase GAPCP2, chloroplastic-like isoform X1	Juglans regia	XP_018840355.1
TRINITY_DN14510_c0_g1_i1_2	5,89E-54	176	XP_018824621.1	glucan endo-1,3-beta-glucosidase 14-like	Juglans regia	XP_018824593.1
TRINITY_DN9908_c0_g1_i2_1	0	521	XP_018824887.1	phosphoserine phosphatase, chloroplastic isoform X1	Juglans regia	XP_018824888.1
TRINITY_DN5370_c0_g1_i1_1	1,75E-49	158	ONH96817.1	hypothetical protein PRUPE_7G153900	Prunus persica	XP_007204141.1
TRINITY_DN2867_c0_g1_i2_6	2,53E-85	254	OAY58377.1	hypothetical protein MANES_02G172800	Manihot esculenta	OAY58378.1
TRINITY_DN10919_c0_g1_i5_1	2,37E-34	124	XP_018806957.1	vignain-like	Juglans regia	AFP20583.1
TRINITY_DN8081_c0_g1_i3_3	0	771	XP_018830218.1	GDP-mannose 3,5-epimerase 2	Juglans regia	XP_018826982.1
TRINITY_DN10953_c0_g1_i1_4	0	637	XP_018819716.1	3-oxoacyl-[acyl-carrier-protein synthase I, chloroplastic	Juglans regia	XP_018819717.1
TRINITY_DN3942_c0_g1_i3_3	3,09E-173	489	XP_018821628.1	proteasome subunit alpha type-1-B-like	Juglans regia	XP_018845049.1
TRINITY_DN6284_c0_g1_i1_3	3,68E-06	50,4	AES73502.1	hypothetical protein MTR_3g105560	Medicago truncatula	XP_003603251.1
TRINITY_DN6272_c0_g1_i1_2	1,54E-171	488	XP_008232049.1	protein BTR1 isoform X2	Prunus mume	ONI21855.1
TRINITY_DN10835_c0_g1_i2_3	4,50E-65	212	XP_014516606.1	plasminogen activator inhibitor 1 RNA-binding protein-like	Vigna radiata var. radiata	KOM58621.1
TRINITY_DN3173_c0_g3_i1_1	1,05E-110	339	XP_018813437.1	probable cytosolic oligopeptidase A	Juglans regia	OAY33523.1
TRINITY_DN8566_c0_g1_i2_1	0	995	XP_018854045.1	T-complex protein 1 subunit alpha	Juglans regia	XP_018854052.1
TRINITY_DN18516_c0_g1_i1_1	4,06E-74	227	XP_018815980.1	uncharacterized protein LOC108987512	Juglans regia	XP_009365361.1
TRINITY_DN10724_c0_g1_i4_1	0	610	XP_018813802.1	aldose 1-epimerase-like	Juglans regia	XP_009347058.1
TRINITY_DN10229_c0_g1_i2_1	6,99E-55	175	XP_008232650.1	60S ribosomal protein L22-3	Prunus mume	ONI22680.1
TRINITY_DN2734_c0_g1_i1_1	1,30E-135	387	XP_018827347.1	tryptophan synthase alpha chain, chloroplastic-like isoform X2	Juglans regia	XP_018827345.1

TRINITY_DN2645_c0_g2_i1_3	2,78E-140	399	XP_018843199.1	glutathione S-transferase DHAR3, chloroplastic-like	Juglans regia	XP_018816866.1
TRINITY_DN11051_c0_g2_i2_2	0	749	XP_008225692.1	UDP-arabinose 4-epimerase 1	Prunus mume	AGH25534.1
TRINITY_DN6332_c0_g2_i1_3	2,71E-171	477	XP_018837327.1	proteasome subunit alpha type-2-B	Juglans regia	ACU21161.1
TRINITY_DN10847_c0_g1_i5_1	2,71E-104	305	XP_018835110.1	coatomer subunit zeta-2-like isoform X2	Juglans regia	XP_009372405.1
TRINITY_DN9500_c0_g1_i4_1	0	716	XP_018840764.1	chaperonin CPN60-2, mitochondrial-like	Juglans regia	ONH93030.1
TRINITY_DN9205_c0_g1_i1_1	1,28E-80	244	XP_016651213.1	basic transcription factor 3 isoform X1	Prunus mume	XP_008240335.1
TRINITY_DN10268_c0_g1_i1_1	0	1047	XP_018809878.1	ketol-acid reductoisomerase, chloroplastic	Juglans regia	XP_018840362.1
TRINITY_DN11412_c0_g1_i3_3	0	1088	KDP29157.1	hypothetical protein JCGZ_16546	Jatropha curcas	KDP29157.1
TRINITY_DN4589_c0_g1_i2_4	1,17E-35	125	OAY30128.1	hypothetical protein MANES_14G006000	Manihot esculenta	XP_020540656.1
TRINITY_DN11511_c2_g1_i3_5	6,30E-54	172	XP_018807308.1	probable glutathione S-transferase	Juglans regia	XP_009344342.1
TRINITY_DN3847_c0_g1_i1_1	1,63E-179	508	XP_018821126.1	mannan endo-1,4-beta-mannosidase 7-like	Juglans regia	ONI32614.1
TRINITY_DN11039_c0_g1_i5_1	0	1211	XP_018848760.1	long chain acyl-CoA synthetase 8	Juglans regia	XP_018848761.1
TRINITY_DN10019_c0_g2_i1_2	0	938	XP_018816636.1	NADH dehydrogenase [ubiquinone] iron-sulfur protein 1, mitochondrial	Juglans regia	XP_008381363.1
TRINITY_DN10360_c0_g3_i2_3	0	1399	XP_018836405.1	1,4-alpha-glucan-branching enzyme 1, chloroplastic/amyloplastic-like	Juglans regia	OAY50415.1
TRINITY_DN11478_c0_g2_i1_2	0	886	XP_018836411.1	catalase isozyme 1	Juglans regia	CAD42908.1
TRINITY_DN16366_c0_g1_i1_4	1,12E-79	253	XP_008339210.1	beta-xylosidase/alpha-L-arabinofuranosidase 1-like	Malus domestica	XP_009354080.1
TRINITY_DN9354_c0_g2_i1_2	0	675	AET62933.1	NADH dehydrogenase subunit 7 (mitochondrion)	Lotus japonicus	YP_005090473.1
TRINITY_DN6770_c0_g1_i2_3	0	613	XP_018845549.1	uncharacterized protein LOC109009507 isoform X2	Juglans regia	XP_012077420.1
TRINITY_DN5978_c0_g1_i1_4	1,67E-39	133	ADD69807.1	copper transport protein ATOX1	Hevea brasiliensis	OAY45760.1
TRINITY_DN10247_c0_g2_i1_3	1,09E-115	336	XP_018813211.1	uncharacterized protein LOC108985386 isoform X1	Juglans regia	XP_004498498.1
TRINITY_DN8913_c1_g2_i1_1	0	750	XP_018848180.1	3-oxoacyl-[acyl-carrier-protein synthase 3 A, chloroplastic-like	Juglans regia	XP_018844419.1
TRINITY_DN11338_c0_g1_i2_4	7,72E-58	184	XP_018834799.1	cytochrome b-c1 complex subunit 7-2-like	Juglans regia	XP_008219895.1
TRINITY_DN11312_c0_g1_i1_1	0	560	XP_008231164.1	cytochrome c1-2, heme protein, mitochondrial	Prunus mume	ONI19859.1
TRINITY_DN10708_c0_g1_i1_2	1,16E-99	299	XP_018847873.1	serine-threonine kinase receptor-associated protein-like	Juglans regia	XP_016179643.1
TRINITY_DN10573_c0_g1_i2_2	0	1055	XP_018846325.1	clathrin heavy chain 1	Juglans regia	XP_018846323.1
TRINITY_DN6429_c0_g1_i3_5	0	586	XP_018815316.1	coatomer subunit alpha-1	Juglans regia	XP_018840319.1
TRINITY_DN8180_c0_g1_i1_1	3,60E-168	475	XP_018809229.1	extradiol ring-cleavage dioxygenase-like	Juglans regia	XP_018844729.1
TRINITY_DN11655_c0_g1_i2_2	0	1672	XP_018857326.1	ATPase 8, plasma membrane-type-like	Juglans regia	XP_018833676.1
TRINITY_DN8076_c0_g1_i7_3	1,32E-116	342	XP_018840255.1	probable voltage-gated potassium channel subunit beta	Juglans regia	XP_016183426.1
TRINITY_DN9094_c0_g1_i3_6	0	667	XP_018847401.1	TOM1-like protein 2	Juglans regia	XP_018847402.1
TRINITY_DN9800_c0_g1_i1_1	0	961	XP_018840407.1	protein transport protein Sec61 subunit alpha-like	Juglans regia	XP_018840408.1

TRINITY_DN21582_c0_g1_i1_3	5,59E-48	159	XP_018809717.1	activator of 90 kDa heat shock protein ATPase homolog 1-like	Juglans regia	OAY40634.1
TRINITY_DN11557_c0_g2_i2_1	1,34E-69	218	XP_018842727.1	protein BOLA4, chloroplastic/mitochondrial-like	Juglans regia	XP_018828128.1
TRINITY_DN9080_c0_g1_i2_2	0	943	XP_018850554.1	alanine aminotransferase 2-like	Juglans regia	ONI15222.1
TRINITY_DN19006_c0_g1_i1_5	0	539	KDP20974.1	hypothetical protein JCGZ_21445	Jatropha curcas	XP_012091606.1
TRINITY_DN2622_c0_g1_i1_2	1,28E-54	174	KDP39545.1	hypothetical protein JCGZ_02565	Jatropha curcas	XP_012070250.1
TRINITY_DN1894_c0_g2_i1_5	4,58E-37	135	XP_018807473.1	uncharacterized protein LOC108980890	Juglans regia	ONH99280.1
TRINITY_DN10750_c0_g1_i1_2	2,26E-160	451	XP_018845601.1	proteasome subunit beta type-6	Juglans regia	OAY53494.1
TRINITY_DN336_c0_g1_i1_1	0	709	XP_018812595.1	ATP sulfurylase 2-like	Juglans regia	ONI32439.1
TRINITY_DN10712_c0_g1_i2_6	3,75E-100	291	XP_008222957.1	40S ribosomal protein S16	Prunus mume	ONI28680.1
TRINITY_DN2749_c0_g1_i1_2	0	1225	XP_018824245.1	acyl-coenzyme A oxidase 3, peroxisomal-like	Juglans regia	XP_018824246.1
TRINITY_DN6944_c1_g2_i2_2	0	715	XP_018828540.1	protein NETWORKED 4A-like isoform X4	Juglans regia	XP_018828537.1
TRINITY_DN10708_c1_g1_i1_1	3,24E-147	419	XP_018847873.1	serine-threonine kinase receptor-associated protein-like	Juglans regia	XP_007154947.1
TRINITY_DN8860_c0_g2_i3_2	1,07E-92	282	XP_018843123.1	eukaryotic translation initiation factor 3 subunit J-like	Juglans regia	OAY46647.1
TRINITY_DN2935_c0_g1_i1_4	1,39E-48	169	XP_018809529.1	phosphoenolpyruvate carboxylase 4-like isoform X1	Juglans regia	KDP29342.1
TRINITY_DN5345_c0_g1_i1_1	0	607	XP_018850953.1	dual specificity protein phosphatase 12-like	Juglans regia	XP_018850954.1
TRINITY_DN2696_c0_g1_i1_2	3,67E-61	189	XP_008239951.1	60S ribosomal protein L34-like	Prunus mume	ONI08672.1
TRINITY_DN6268_c0_g2_i1_1	1,42E-180	507	XP_018827184.1	ABC transporter I family member 19-like	Juglans regia	AIU41666.1
TRINITY_DN20535_c0_g1_i1_2	9,85E-50	169	XP_018824867.1	ras GTPase-activating protein-binding protein 2 isoform X1	Juglans regia	XP_018824868.1
TRINITY_DN6734_c0_g1_i2_4	0	572	XP_008220580.1	endoglucanase 16	Prunus mume	ONI33063.1
TRINITY_DN10790_c0_g1_i1_2	3,09E-82	245	XP_008243052.1	40S ribosomal protein S24-1-like	Prunus mume	ONH98838.1
TRINITY_DN11422_c0_g1_i2_2	7,43E-153	431	XP_018840891.1	proteasome subunit beta type-1	Juglans regia	XP_018809677.1
TRINITY_DN4447_c0_g1_i1_4	2,53E-27	100	AES80599.1	Lipid transfer protein	Medicago truncatula	XP_003624381.1
TRINITY_DN10526_c0_g1_i1_1	2,14E-13	64,3	XP_018844967.1	uncharacterized protein LOC109009078	Juglans regia	XP_017192435.1
TRINITY_DN11588_c0_g1_i3_2	0	588	XP_018847856.1	protein transport protein SEC13 homolog B	Juglans regia	XP_018839977.1
TRINITY_DN11110_c0_g3_i1_1	1,87E-75	230	XP_018817862.1	thioredoxin M3, chloroplastic-like	Juglans regia	AEC03325.1
TRINITY_DN3777_c0_g1_i2_4	6,90E-132	374	XP_018821677.1	maf-like protein DDB_G0281937 isoform X6	Juglans regia	XP_018821674.1
TRINITY_DN17601_c0_g1_i1_6	7,44E-47	160	KDP37953.1	hypothetical protein JCGZ_04596	Jatropha curcas	XP_020534892.1
TRINITY_DN11006_c0_g1_i1_2	7,02E-172	488	OAY51355.1	hypothetical protein MANES_05G208200	Manihot esculenta	OAY51356.1
TRINITY_DN16803_c0_g1_i1_5	1,42E-44	156	XP_018846323.1	clathrin heavy chain 1-like isoform X1	Juglans regia	XP_018846324.1
TRINITY_DN22655_c0_g1_i1_2	3,38E-24	95,9	OIW07050.1	hypothetical protein TanjilG_02684	Lupinus angustifolius	XP_019451454.1
TRINITY_DN9863_c2_g1_i1_1	3,11E-154	432	OAY25631.1	hypothetical protein MANES_17G110100	Manihot esculenta	XP_018845779.1
TRINITY_DN7934_c0_g2_i1_1	8,73E-144	407	XP_018857393.1	proline synthase co-transcribed bacterial homolog protein-like	Juglans regia	XP_008224704.1
TRINITY_DN11256_c0_g1_i2_2	0	744	XP_018842400.1	eukaryotic translation initiation factor 3 subunit C isoform X1	Juglans regia	XP_018842401.1
TRINITY_DN11403_c0_g1_i2_2	0	904	XP_008218557.1	transmembrane 9 superfamily member 1	Prunus mume	ONI36176.1

TRINITY_DN11547_c0_g1_i4_3	3,04E-75	224	6723463|emb|CAB66329.1	defender against apoptotic cell death	Betula pendula	20138029
TRINITY_DN8795_c0_g3_i1_4	3,42E-14	66,6	XP_008342573.1	40S ribosomal protein S28-like	Malus domestica	ONI35609.1
TRINITY_DN5882_c0_g3_i2_3	2,05E-94	275	XP_008218349.1	60S ribosomal protein L23	Prunus mume	XP_008224171.1
TRINITY_DN6879_c0_g1_i2_2	0	606	XP_018812241.1	hsp70-Hsp90 organizing protein 3-like isoform X1	Juglans regia	XP_018812241.1
TRINITY_DN8601_c0_g1_i1_2	8,55E-56	175	XP_018859049.1	uncharacterized protein LOC109020967	Juglans regia	XP_018859050.1
TRINITY_DN11298_c0_g1_i2_4	0	760	XP_018811933.1	plant UBX domain-containing protein 8	Juglans regia	XP_018828814.1
TRINITY_DN8357_c0_g1_i1_1	2,24E-115	333	XP_018810064.1	eukaryotic translation initiation factor	Juglans regia	XP_009334209.1
TRINITY_DN9107_c0_g1_i2_2	7,77E-61	191	XP_018845470.1	oleosin 1	Juglans regia	XP_020212629.1
TRINITY_DN11330_c0_g1_i3_6	9,89E-47	150	OAY42355.1	hypothetical protein MANES_09G173400	Manihot esculenta	KDP23246.1
TRINITY_DN10810_c0_g1_i4_1	1,06E-75	236	XP_018807734.1	probable proteasome inhibitor isoform X1	Juglans regia	KDP24535.1
TRINITY_DN8957_c0_g1_i1_1	2,01E-95	295	OIW17270.1	hypothetical protein TanjilG_22382	Lupinus angustifolius	XP_018835420.1
TRINITY_DN8356_c0_g2_i1_1	1,08E-166	481	XP_018807873.1	putative G3BP-like protein isoform X4	Juglans regia	XP_018807872.1
TRINITY_DN10807_c0_g1_i5_1	0	595	XP_008243362.1	ERBB-3 BINDING PROTEIN 1	Prunus mume	ONI03759.1
TRINITY_DN11558_c0_g1_i1_1	0	1365	XP_018839647.1	eukaryotic translation initiation factor 3 subunit A-like	Juglans regia	XP_018839648.1
TRINITY_DN9852_c0_g1_i1_1	0	551	XP_020227721.1	26S proteasome non-ATPase regulatory subunit 4 homolog isoform X1	Cajanus cajan	XP_018829606.1
TRINITY_DN11418_c0_g2_i2_5	0	568	CAA66064.1 thaizole biosynthetic enzmye	Alnus glutinosa		Q38709.1
TRINITY_DN5567_c0_g1_i3_3	1,44E-14	69,7	XP_018807685.1	ATPase inhibitor, mitochondrial-like	Juglans regia	XP_018813700.1
TRINITY_DN10055_c0_g1_i2_3	0	1023	XP_018860642.1	dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1A-like isoform X1	Juglans regia	XP_008237940.1
TRINITY_DN8773_c0_g2_i2_4	0	728	XP_018851148.1	probable sucrose-phosphatase 2 isoform X1	Juglans regia	XP_009362647.1
TRINITY_DN2809_c0_g1_i1_6	4,18E-69	208	XP_018849412.1	nudix hydrolase 16, mitochondrial isoform X3	Juglans regia	XP_018849410.1
TRINITY_DN19230_c0_g1_i1_1	0	753	XP_008229423.1	uncharacterized protein LOC103328788	Prunus mume	XP_008229422.2
TRINITY_DN11224_c0_g1_i1_1	3,16E-148	419	AHA83526.1	V-type proton ATPase subunit E	Hevea brasiliensis	XP_018831865.1
TRINITY_DN3638_c0_g1_i1_2	3,55E-76	228	XP_018845602.1	AIG2-like protein	Juglans regia	OAY53495.1
TRINITY_DN11495_c0_g1_i1_2	2,88E-76	229	XP_018820939.1	60S ribosomal protein L14-1	Juglans regia	XP_018808011.1
TRINITY_DN10903_c0_g1_i6_2	3,56E-143	428	XP_018851647.1	subtilisin-like protease SBT1.7 isoform X1	Juglans regia	XP_018851649.1
TRINITY_DN4170_c0_g3_i2_2	0	779	XP_018840459.1	primary amine oxidase	Juglans regia	XP_008224551.1
TRINITY_DN10453_c0_g2_i2_3	1,13E-112	327	KHN12396.1	60S ribosomal protein L17-2	Glycine soja	KRH42660.1
TRINITY_DN10548_c1_g1_i1_3	2,66E-165	467	XP_018820853.1	mitochondrial outer membrane protein porin 4	Juglans regia	XP_018831181.1
TRINITY_DN9786_c0_g1_i2_4	8,96E-174	487	XP_018823175.1	probable protein phosphatase 2C 39	Juglans regia	XP_018850794.1
TRINITY_DN307_c0_g2_i1_6	5,21E-90	280	ONH99280.1	hypothetical protein PRUPE_6G022600	Prunus persica	XP_018807473.1
TRINITY_DN3566_c0_g1_i1_1	0	775	XP_018852266.1	dihydrolipoyllysine-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex 2, mitochondrial-like	Juglans regia	XP_018852267.1

TRINITY_DN6229_c0_g1_i1_2	3,28E-49	164	XP_018826924.1	uncharacterized protein C6C3.02c-like	Juglans regia	XP_009343812.1
TRINITY_DN10335_c1_g2_i2_2	0	1027	XP_018806897.1	lysine--tRNA ligase isoform X1	Juglans regia	XP_018806898.1
TRINITY_DN10820_c1_g1_i1_3	0	924	XP_018857649.1	NADH dehydrogenase [ubiquinone] flavoprotein 1, mitochondrial-like	Juglans regia	XP_018836688.1
TRINITY_DN4435_c0_g1_i1_1						
TRINITY_DN9270_c0_g2_i2_2	1,17E-84	253	XP_018835344.1	40S ribosomal protein S17-like	Juglans regia	XP_018855694.1
TRINITY_DN9549_c0_g1_i1_2	1,42E-114	329	XP_016166939.1	probable signal peptidase complex subunit 2	Arachis ipaensis	XP_015931364.1
TRINITY_DN11397_c0_g1_i5_2	1,30E-105	313	ONI24561.1	hypothetical protein PRUPE_2G247200	Prunus persica	XP_007218776.1
TRINITY_DN11446_c0_g1_i1_2	0	1514	XP_018835573.1	presequence protease 1, chloroplastic/mitochondrial-like	Juglans regia	ONH91536.1
TRINITY_DN11125_c0_g9_i1_3	6,45E-131	370	XP_007160383.1	hypothetical protein PHAVU_002G317200g	Phaseolus vulgaris	XP_007160384.1
TRINITY_DN7263_c1_g1_i1_1	6,69E-135	401	XP_018850062.1	acyl-CoA-binding domain-containing protein 4	Juglans regia	ONI04458.1
TRINITY_DN11387_c0_g1_i4_2	0	1551	XP_018843471.1	26S proteasome non-ATPase regulatory subunit 2 homolog A	Juglans regia	XP_018834279.1
TRINITY_DN11199_c0_g5_i8_6	8,36E-176	494	OIV90699.1	hypothetical protein TanjilG_15085	Lupinus angustifolius	OIW07225.1
TRINITY_DN8461_c0_g1_i1_1	0	807	XP_018821861.1	cytochrome P450 90A1 isoform X1	Juglans regia	XP_018810085.1
TRINITY_DN3481_c0_g1_i1_6	1,44E-119	346	XP_018831769.1	proteasome subunit alpha type-3	Juglans regia	XP_018822732.1
TRINITY_DN5908_c0_g1_i1_3	0	568	OAY48170.1	hypothetical protein MANES_06G137400	Manihot esculenta	KDP22391.1
TRINITY_DN8185_c0_g1_i1_1	1,00E-76	232	XP_014496997.1	60S ribosomal protein L23A	Vigna radiata var. radiata	XP_020224350.1
TRINITY_DN4115_c0_g1_i1_2	8,55E-78	238	XP_018846161.1	uncharacterized protein LOC109009947	Juglans regia	ONH97840.1
TRINITY_DN5077_c0_g1_i1_1	0	694	XP_018840433.1	cysteine synthase, chloroplastic/chromoplastic isoform X1	Juglans regia	XP_018840434.1
TRINITY_DN7999_c0_g1_i1_3	1,29E-131	380	XP_008227948.1	60S ribosomal protein L7-2	Prunus mume	ONI14974.1
TRINITY_DN12921_c0_g1_i1_3	1,28E-120	346	XP_018825134.1	ubiquitin carboxyl-terminal hydrolase 3-like	Juglans regia	XP_018825135.1
TRINITY_DN2387_c0_g2_i1_1	3,64E-67	209	ONI00303.1	hypothetical protein PRUPE_6G081100	Prunus persica	XP_008223244.1
TRINITY_DN9350_c0_g2_i2_2	1,26E-76	231	XP_018813383.1	60S ribosomal protein L27	Juglans regia	XP_018827822.1
TRINITY_DN10819_c0_g1_i1_3	0	732	XP_018859227.1	uncharacterized protein At1g04910	Juglans regia	XP_008353648.1
TRINITY_DN9863_c1_g1_i2_5	4,52E-93	273	OIV96039.1	hypothetical protein TanjilG_27143	Lupinus angustifolius	KOM53238.1
TRINITY_DN9866_c0_g1_i1_1	2,88E-98	288	XP_018808968.1	40S ribosomal protein S11	Juglans regia	XP_018822277.1
TRINITY_DN11562_c0_g1_i1_2	0	728	ONI30885.1	hypothetical protein PRUPE_1G279500	Prunus persica	XP_007222547.1
TRINITY_DN11571_c4_g3_i1_2	0	863	6723478|emb|CAB66336.1	alpha-tubulin	Betula pendula	KRH62139.1
TRINITY_DN9464_c0_g1_i4_3	0	1195	XP_018858095.1	ATP-citrate synthase beta chain protein 2	Juglans regia	XP_018858096.1
TRINITY_DN8433_c1_g1_i2_6	2,07E-140	402	XP_018850051.1	REF/SRPP-like protein At3g05500	Juglans regia	XP_018850053.1
TRINITY_DN10036_c0_g1_i3_6	1,69E-31	115	ABH03379.1	60S acidic ribosomal protein	Prunus dulcis	AAL91663.1
TRINITY_DN10785_c0_g1_i1_3	1,56E-36	129	XP_018841685.1	putative invertase inhibitor	Juglans regia	XP_018853991.1
TRINITY_DN4427_c0_g2_i1_1	0	1101	XP_018836294.1	arginine--tRNA ligase, cytoplasmic-like isoform X1	Juglans regia	XP_018836295.1
TRINITY_DN8833_c0_g1_i2_2	1,87E-104	305	ONH99570.1	hypothetical protein PRUPE_6G036500	Prunus persica	KDP29516.1
TRINITY_DN10152_c0_g1_i1_1	5,45E-44	145	OAY45736.1	hypothetical protein MANES_07G087100	Manihot esculenta	OAY51398.1

TRINITY_DN11018_c0_g1_i2_1	0	834	XP_018847079.1	LL-diaminopimelate aminotransferase, chloroplastic-like	Juglans regia	XP_009378578.1
TRINITY_DN8141_c0_g2_i1_3	0	729	XP_018810396.1	pyruvate dehydrogenase E1 component subunit beta-3, chloroplastic	Juglans regia	XP_018810397.1
TRINITY_DN18656_c0_g1_i1_2	5,71E-26	96,7	XP_018839525.1	chorismate mutase 2-like	Juglans regia	XP_018833669.1
TRINITY_DN9214_c0_g1_i3_1	0	861	XP_018843339.1	ubiquitin carboxyl-terminal hydrolase 6-like isoform X1	Juglans regia	XP_018843340.1
TRINITY_DN5754_c0_g1_i1_1	5,28E-132	377	XP_018828872.1	protein P21-like	Juglans regia	KDP46638.1
TRINITY_DN4395_c0_g1_i1_4	0	671	XP_018860049.1	vesicle-fusing ATPase	Juglans regia	XP_018860050.1
TRINITY_DN10088_c0_g2_i1_3	0	613	XP_018846556.1	protein DMR6-LIKE OXYGENASE 2-like	Juglans regia	XP_007201373.1
TRINITY_DN18481_c0_g2_i1_2	3,78E-112	322	XP_008237447.1	ras-related protein Rab7	Prunus mume	ONH90275.1
TRINITY_DN3240_c0_g1_i1_2	3,28E-101	298	XP_018820087.1	tankyrase	Juglans regia	KOM34811.1
TRINITY_DN9575_c0_g1_i1_1	0	619	ONI21561.1	hypothetical protein PRUPE_2G072900	Prunus persica	XP_018852654.1
TRINITY_DN8266_c0_g1_i1_1	3,09E-55	176	XP_018819326.1	V-type proton ATPase subunit E2 isoform X1	Juglans regia	XP_018819328.1
TRINITY_DN3684_c0_g3_i1_2	9,37E-96	281	XP_018812582.1	40S ribosomal protein S8-like	Juglans regia	XP_018812589.1
TRINITY_DN27_c0_g2_i1_5	3,86E-73	226	XP_018840255.1	probable voltage-gated potassium channel subunit beta	Juglans regia	XP_018818414.1
TRINITY_DN14743_c0_g1_i1_2	1,80E-69	225	XP_020987312.1	phosphoenolpyruvate carboxylase 4 isoform X2	Arachis duranensis	XP_018809529.1
TRINITY_DN11580_c0_g1_i4_3	0	1075	XP_018842287.1	probable methyltransferase PMT3	Juglans regia	XP_018808117.1
TRINITY_DN10635_c0_g1_i3_5	1,56E-110	319	XP_018815794.1	60S ribosomal protein L21-1-like	Juglans regia	OAY43087.1
TRINITY_DN11567_c1_g2_i1_2	1,56E-118	357	XP_018833217.1	uncharacterized protein LOC109000707	Juglans regia	XP_018833218.1
TRINITY_DN11631_c0_g1_i3_2	0	934	AET62894.1	cytochrome c oxidase subunit 1 (mitochondrion)	Millettia pinnata	YP_005090434.1
TRINITY_DN1621_c0_g2_i2_2	7,15E-84	250	XP_008358599.1	60S ribosomal protein L8-3, partial	Malus domestica	ONI29567.1
TRINITY_DN8095_c0_g1_i1_1	2,87E-30	108	XP_018836020.1	uncharacterized protein LOC109002634	Juglans regia	XP_018823193.1
TRINITY_DN5554_c0_g2_i1_3	1,79E-100	294	XP_018838134.1	nitrogen regulatory protein P-II homolog	Juglans regia	XP_018824177.1
TRINITY_DN11457_c0_g1_i1_3	0	776	XP_018816946.1	eukaryotic translation initiation factor 3 subunit M-like	Juglans regia	KDP27264.1
TRINITY_DN6500_c0_g2_i1_1	2,76E-115	334	XP_018815941.1	malignant T-cell-amplified sequence 1 homolog	Juglans regia	OAY44020.1
TRINITY_DN7157_c0_g1_i1_3	0	718	XP_018825130.1	argininosuccinate synthase, chloroplastic-like	Juglans regia	XP_016198696.1
TRINITY_DN9819_c1_g2_i1_2	0	534	XP_018849554.1	prohibitin-1, mitochondrial isoform X1	Juglans regia	XP_018849555.1
TRINITY_DN11038_c0_g2_i1_2	0	607	XP_018817568.1	probable ADP-ribosylation factor GTPase-activating protein AGD9 isoform X1	Juglans regia	XP_018817570.1
TRINITY_DN9121_c0_g1_i2_6	0	690	XP_018825271.1	enoyl-[acyl-carrier-protein reductase [NADH], chloroplastic-like	Juglans regia	ONH99164.1
TRINITY_DN11575_c0_g1_i5_2	1,13E-176	499	XP_018860327.1	probable dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 3B	Juglans regia	OAY25973.1
TRINITY_DN11451_c0_g1_i1_2	0	951	KDP43990.1	hypothetical protein JCGZ_05457	Jatropha curcas	XP_012064729.1
TRINITY_DN11459_c1_g2_i1_2	0	1198	XP_018823263.1	probable mediator of RNA polymerase II transcription subunit 37c	Juglans regia	CAW63949.1

TRINITY_DN9611_c0_g1_i1_6	5,22E-116	335	OAY39836.1	hypothetical protein MANES_10G126300	Manihot esculenta	XP_018845301.1
TRINITY_DN118_c0_g1_i1_3	3,37E-62	206	XP_018815884.1	acid beta-fructofuranosidase-like	Juglans regia	OAY48150.1
TRINITY_DN7932_c0_g1_i8_5	0	903	XP_018816499.1	importin subunit alpha-4	Juglans regia	OAY42413.1
TRINITY_DN9613_c0_g2_i2_4	1,76E-93	276	XP_018814519.1	peptidyl-prolyl cis-trans isomerase FKBP20-1	Juglans regia	KDP44932.1
TRINITY_DN7103_c0_g2_i2_2	0	565	XP_008236939.1	chaperone protein dnaJ 10	Prunus mume	ONH91068.1
TRINITY_DN11303_c0_g1_i1_1	3,60E-85	272	XP_018825127.1	plasminogen activator inhibitor 1 RNA-binding protein	Juglans regia	OAY60106.1
TRINITY_DN10641_c0_g1_i1_6	0	660	KDP42999.1	hypothetical protein JCGZ_25185	Jatropha curcas	XP_012066022.1
TRINITY_DN11410_c0_g1_i1_4	2,62E-77	236	XP_018812979.1	universal stress protein PHOS32-like	Juglans regia	XP_018858703.1
TRINITY_DN6205_c0_g1_i1_2	3,35E-43	144	XP_018850188.1	V-type proton ATPase subunit G-like	Juglans regia	XP_018850189.1
TRINITY_DN11159_c1_g1_i8_5	0	637	XP_018851345.1	UDP-glycosyltransferase 74E2-like isoform X1	Juglans regia	XP_018851346.1
TRINITY_DN9714_c0_g1_i1_1	0	855	XP_018811308.1	probable aspartyl aminopeptidase	Juglans regia	XP_018814786.1
TRINITY_DN4382_c0_g1_i1_1	0	871	XP_018839280.1	26S protease regulatory subunit 7A	Juglans regia	OAY36310.1
TRINITY_DN11626_c0_g2_i1_5	0	1123	XP_018823588.1	transmembrane 9 superfamily member 8-like	Juglans regia	XP_018810860.1
TRINITY_DN9896_c0_g1_i5_1	3,18E-36	128	XP_018836815.1	uncharacterized protein LOC109003223	Juglans regia	XP_018836816.1
TRINITY_DN10351_c0_g1_i3_1	0	838	XP_012070239.1	V-type proton ATPase subunit H	Jatropha curcas	ONI25948.1
TRINITY_DN7143_c0_g1_i1_1	0	513	XP_018844177.1	non-functional NADPH-dependent codeinone reductase 2-like isoform X1	Juglans regia	ONI30338.1
TRINITY_DN11432_c0_g1_i1_6	0	605	ONI02574.1	hypothetical protein PRUPE_6G207500	Prunus persica	XP_007205414.1
TRINITY_DN9820_c0_g1_i3_3	0	993	XP_018812045.1	L-ascorbate oxidase homolog	Juglans regia	XP_018838329.1
TRINITY_DN10026_c0_g1_i1_5	3,84E-157	442	XP_018809557.1	rho GDP-dissociation inhibitor 1-like isoform X1	Juglans regia	XP_018809558.1
TRINITY_DN11576_c1_g1_i1_2	0	639	XP_018844184.1	thiol protease aleurain-like	Juglans regia	KDP33917.1
TRINITY_DN18710_c0_g1_i1_2	9,08E-109	314	XP_018822169.1	gamma-glutamylcyclotransferase 2-3-like	Juglans regia	XP_008219660.1
TRINITY_DN11480_c0_g1_i1_2	0	534	XP_018840568.1	probable prolyl 4-hydroxylase 4	Juglans regia	OAY27838.1
TRINITY_DN16427_c0_g1_i1_4	2,48E-83	251	AGT95889.1	beta-ketoacyl-ACP reductase	Vernicia fordii	OIW14657.1
TRINITY_DN21781_c0_g1_i1_6	2,33E-27	104	XP_018805205.1	peroxidase 5-like	Juglans regia	XP_008221883.1
TRINITY_DN840_c0_g2_i1_1	0	562	XP_018834105.1	exocyst complex component EXO70B1-like	Juglans regia	XP_008341257.1
TRINITY_DN9473_c0_g1_i1_3	1,95E-44	149	XP_018858854.1	auxin-repressed 12.5 kDa protein-like	Juglans regia	XP_018811601.1
TRINITY_DN11010_c0_g1_i2_2	1,09E-72	223	XP_018848209.1	ATP synthase subunit delta', mitochondrial-like	Juglans regia	XP_018848210.1
TRINITY_DN11411_c1_g1_i1_5	0	763	XP_018832890.1	S-adenosylmethionine synthase 1	Juglans regia	XP_012084185.1
TRINITY_DN13141_c0_g1_i1_2	8,54E-51	164	OAY60149.1	hypothetical protein MANES_01G089200	Manihot esculenta	OAY60147.1
TRINITY_DN10770_c0_g1_i1_1	0	1143	XP_018815758.1	phosphoglucan, water dikinase, chloroplastic isoform X2	Juglans regia	XP_018815757.1
TRINITY_DN1431_c0_g2_i1_2	0	671	XP_018816788.1	alpha-1,4 glucan phosphorylase L isozyme, chloroplastic/amyloplastic	Juglans regia	XP_018503860.1
TRINITY_DN19678_c0_g1_i1_1	7,31E-160	462	XP_018807104.1	uncharacterized protein LOC108980590 isoform X2	Juglans regia	XP_018807103.1
TRINITY_DN249_c0_g2_i1_1	3,80E-123	358	XP_018832807.1	velvet complex subunit B	Juglans regia	KDP20282.1
TRINITY_DN17357_c0_g1_i1_3	0	555	XP_018842448.1	cysteine synthase	Juglans regia	XP_018842449.1

TRINITY_DN5130_c1_g1_i1_6	0	670	XP_018845600.1	L-arabinokinase-like	Juglans regia	XP_018845086.1
TRINITY_DN10160_c0_g1_i3_6	0	971	XP_018831786.1	NAD-dependent malic enzyme 59 kDa isoform, mitochondrial	Juglans regia	KDP28665.1
TRINITY_DN5845_c0_g1_i3_2	0	813	XP_018811146.1	serine--tRNA ligase-like	Juglans regia	XP_018841783.1
TRINITY_DN8910_c0_g1_i1_1	0	580	XP_018807956.1	serine hydroxymethyltransferase, mitochondrial-like	Juglans regia	KDP41520.1
TRINITY_DN11500_c0_g1_i1_3	0	637	XP_018828827.1	eukaryotic translation initiation factor 3 subunit I-like	Juglans regia	XP_018818014.1
TRINITY_DN11156_c0_g1_i1_3	0	920	KDP30431.1	hypothetical protein JCGZ_16670	Jatropha curcas	XP_012081034.1
TRINITY_DN10981_c0_g2_i2_6	0	638	XP_018816762.1	glutamine synthetase cytosolic isozyme	Juglans regia	ONI17549.1
TRINITY_DN10644_c0_g1_i1_2	1,79E-110	320	XP_008340621.1	GTP-binding protein SAR1A	Malus domestica	XP_008353168.1
TRINITY_DN21106_c0_g2_i1_1	9,72E-34	118	KDP25905.1	hypothetical protein JCGZ_22976	Jatropha curcas	KDP25906.1
TRINITY_DN7447_c0_g1_i1_2	2,04E-70	216	XP_018855746.1	HMG1/2-like protein	Juglans regia	XP_018809064.1
TRINITY_DN10179_c0_g2_i1_1	1,93E-23	99	XP_018860760.1	probable pectinesterase/pectinesterase inhibitor 21	Juglans regia	KDP23449.1
TRINITY_DN10614_c0_g1_i2_2	0	1023	XP_018850821.1	inositol-3-phosphate synthase	Juglans regia	XP_018850822.1
TRINITY_DN14470_c0_g1_i1_4	5,46E-74	224	KRH26302.1	hypothetical protein GLYMA_12G1662002, partial	Glycine max	KHN39675.1
TRINITY_DN5970_c0_g1_i1_3	0	537	XP_018850787.1	annexin D2-like	Juglans regia	XP_018834475.1
TRINITY_DN10916_c0_g1_i1_6	0	619	OAY49327.1	hypothetical protein MANES_05G047100	Manihot esculenta	KDP28773.1
TRINITY_DN9868_c0_g1_i1_3	0	1011	XP_018845552.1	eukaryotic translation initiation factor 3 subunit L-like	Juglans regia	KDP34205.1
TRINITY_DN11613_c0_g1_i2_2	0	592	XP_018811967.1	probable aldo-keto reductase 1	Juglans regia	XP_018826312.1
TRINITY_DN11620_c1_g1_i4_6	3,13E-146	436	ONI08225.1	hypothetical protein PRUPE_5G165800	Prunus persica	XP_020419755.1
TRINITY_DN17153_c0_g1_i1_1	4,34E-109	316	XP_018810863.1	26S proteasome non-ATPase regulatory subunit 9	Juglans regia	XP_019432553.1
TRINITY_DN8763_c0_g2_i1_1	0	1199	XP_018815548.1	long chain acyl-CoA synthetase 4-like	Juglans regia	XP_018824382.1
TRINITY_DN11270_c0_g2_i1_1	0	752	XP_018850292.1	obg-like ATPase 1	Juglans regia	ONI11169.1
TRINITY_DN3573_c0_g1_i1_2	0	788	XP_018849865.1	aminomethyltransferase, mitochondrial	Juglans regia	XP_018849809.1
TRINITY_DN7327_c0_g1_i2_5	0	726	XP_018812439.1	ferrochelatase-2, chloroplastic-like	Juglans regia	OAY54085.1
TRINITY_DN6062_c0_g2_i3_1	2,23E-61	200	XP_018851019.1	glycine-rich RNA-binding protein RZ1A-like	Juglans regia	KDP37561.1
TRINITY_DN5393_c0_g1_i1_2	4,37E-85	255	XP_018829153.1	uncharacterized protein LOC108997378	Juglans regia	AES93703.1
TRINITY_DN21568_c0_g1_i2_1	1,40E-119	351	XP_018807064.1	cyclase-associated protein 1-like	Juglans regia	XP_018847838.1
TRINITY_DN11022_c0_g1_i1_1	0	654	XP_018843078.1	calponin homology domain-containing protein DDB_G0272472	Juglans regia	XP_018843078.1
TRINITY_DN9756_c0_g1_i3_1	0	736	XP_018813395.1	ureidoglycolate hydrolase	Juglans regia	ONI26562.1
TRINITY_DN8806_c0_g1_i5_2	0	1313	XP_018818540.1	heat shock protein 90-5, chloroplastic	Juglans regia	ONI31143.1
TRINITY_DN7109_c0_g1_i1_2	1,15E-87	262	XP_018820088.1	superoxide dismutase [Cu-Zn] 2	Juglans regia	ADR70869.1
TRINITY_DN3282_c0_g2_i1_4	0	682	XP_018805409.1	dihydrolipoyl dehydrogenase 2, chloroplastic-like	Juglans regia	XP_008223314.1
TRINITY_DN6144_c0_g1_i1_3	2,40E-11	63,2	XP_018806754.1	putative invertase inhibitor	Juglans regia	XP_018815938.1
TRINITY_DN10924_c0_g1_i1_3	2,38E-101	298	XP_007137617.1	hypothetical protein PHAVU_009G141600g	Phaseolus vulgaris	ESW09611.1
TRINITY_DN8033_c0_g1_i1_2	0	601	XP_018826576.1	probable methyltransferase PMT2	Juglans regia	ONI08656.1
TRINITY_DN11083_c0_g1_i2_1	1,43E-151	444	XP_018816929.1	uncharacterized protein LOC108988207	Juglans regia	XP_018843198.1

TRINITY_DN9815_c0_g1_i1_2	1,76E-173	495	XP_018845516.1	nucleosome assembly protein 1;2-like	Juglans regia	XP_018845505.1
TRINITY_DN9347_c0_g1_i1_1	2,25E-167	474	XP_018834050.1	cytochrome b-c1 complex subunit Rieske-4, mitochondrial-like	Juglans regia	XP_018834872.1
TRINITY_DN10872_c0_g1_i8_4	0	1034	XP_018849128.1	transmembrane 9 superfamily member 3	Juglans regia	XP_018823528.1
TRINITY_DN12354_c0_g1_i1_2	2,96E-45	150	KDP30853.1	hypothetical protein JCGZ_13796	Jatropha curcas	XP_012080696.1
TRINITY_DN6584_c0_g2_i1_1	5,01E-83	251	AFK48248.1	unknown	Lotus japonicus	XP_018839113.1
TRINITY_DN10462_c0_g1_i1_2	0	587	XP_018849296.1	succinate--CoA ligase [ADP-forming] subunit alpha-1, mitochondrial	Juglans regia	XP_009355925.1
TRINITY_DN9076_c0_g2_i1_2	0	799	XP_018824705.1	acetylornithine deacetylase	Juglans regia	XP_008238268.1
TRINITY_DN527_c0_g2_i1_3	4,07E-65	199	XP_018814658.1	40S ribosomal protein S14-3-like	Juglans regia	XP_018814659.1
TRINITY_DN19375_c0_g1_i1_3	5,43E-47	159	ACJ85543.1	unknown, partial	Medicago truncatula	XP_018810128.1
TRINITY_DN9641_c0_g1_i1_2	1,65E-100	306	XP_018818310.1	uncharacterized protein LOC108989227 isoform X2	Juglans regia	OAY57847.1
TRINITY_DN22097_c0_g1_i1_5	6,89E-05	45,4	XP_018845634.1	suppressor protein SRP40-like	Juglans regia	
TRINITY_DN12939_c0_g1_i1_5	1,95E-109	325	XP_018825627.1	exopolygalacturonase-like	Juglans regia	XP_018809534.1
TRINITY_DN12440_c0_g1_i1_2	2,60E-98	295	KDP45313.1	hypothetical protein JCGZ_09562	Jatropha curcas	OAY25717.1
TRINITY_DN21623_c0_g1_i1_1	9,10E-43	144	XP_018831704.1	peroxidase 65-like isoform X2	Juglans regia	XP_018831703.1
TRINITY_DN10464_c0_g1_i1_6	0	904	XP_008226002.1	succinate-semialdehyde dehydrogenase, mitochondrial	Prunus mume	ONI11823.1
TRINITY_DN9302_c0_g1_i1_2	9,23E-57	181	XP_018856804.1	uncharacterized protein LOC109019033	Juglans regia	ONI26978.1
TRINITY_DN1467_c0_g1_i1_4	7,41E-142	420	XP_018845708.1	beta-galactosidase-like	Juglans regia	XP_018845720.1
TRINITY_DN10869_c1_g3_i1_5	1,56E-137	390	XP_018850618.1	thaumatin-like protein 1	Juglans regia	XP_018811059.1
TRINITY_DN11008_c0_g1_i3_3	0	1002	OAY33522.1	hypothetical protein MANES_13G103800	Manihot esculenta	OAY35689.1
TRINITY_DN5035_c0_g1_i1_1	1,59E-133	382	XP_018841531.1	metal-independent phosphoserine phosphatase-like	Juglans regia	XP_018841533.1
TRINITY_DN11340_c0_g1_i2_2	0	1269	XP_018825075.1	peroxisomal acyl-coenzyme A oxidase 1	Juglans regia	XP_018819219.1
TRINITY_DN10734_c1_g1_i1_1	2,41E-122	356	ONI25352.1	hypothetical protein PRUPE_2G297800	Prunus persica	XP_007218846.1
TRINITY_DN10680_c4_g1_i3_4	1,87E-64	194	ABD61727.1	polyubiquitin, partial	Lupinus albus	ABD61727.1
TRINITY_DN11420_c0_g1_i4_2	0	943	XP_018820403.1	mannosyl-oligosaccharide 1,2-alpha-mannosidase MNS1	Juglans regia	XP_012573113.1
TRINITY_DN1806_c0_g1_i1_6	3,53E-74	237	XP_018817514.1	transmembrane 9 superfamily member 7-like	Juglans regia	XP_018843226.1
TRINITY_DN9463_c0_g1_i1_2	0	653	XP_018854693.1	T-complex protein 1 subunit delta	Juglans regia	KYP61474.1
TRINITY_DN2883_c0_g1_i1_1	4,21E-38	136	XP_018820151.1	external alternative NAD(P)H-ubiquinone oxidoreductase B2, mitochondrial-like	Juglans regia	XP_009375317.1
TRINITY_DN11614_c0_g1_i5_1	0	695	XP_018841744.1	oxysterol-binding protein-related protein 3A	Juglans regia	XP_018807417.1
TRINITY_DN8774_c0_g2_i2_6	0	835	XP_018846385.1	probable nucleoredoxin 1	Juglans regia	OAY34529.1
TRINITY_DN9582_c0_g2_i1_5	0	528	OAY32440.1	hypothetical protein MANES_13G017700	Manihot esculenta	KDP26783.1
TRINITY_DN8902_c0_g1_i2_5	0	652	XP_018837262.1	protein FREE1	Juglans regia	KDP36892.1
TRINITY_DN11545_c0_g1_i3_2	0	769	XP_018821818.1	alpha-galactosidase 3 isoform X1	Juglans regia	OAY46379.1
TRINITY_DN11179_c0_g1_i4_3	0	702	XP_018842503.1	branched-chain-amino-acid aminotransferase 3, chloroplastic-like	Juglans regia	XP_009342188.1
TRINITY_DN10263_c1_g1_i2_1	1,34E-129	370	XP_018836944.1	NEDD8-conjugating enzyme Ubc12-like	Juglans regia	XP_018836945.1

TRINITY_DN9576_c0_g1_i2_5	8,85E-61	187	XP_018836049.1	mitochondrial import inner membrane translocase subunit Tim9	Juglans regia	XP_008357211.1
TRINITY_DN7960_c0_g1_i1_2	0	1595	XP_018836595.1	chaperone protein ClpC, chloroplastic	Juglans regia	XP_018832706.1
TRINITY_DN5577_c0_g1_i1_5	6,41E-60	202	XP_018844109.1	polyadenylate-binding protein 7 isoform X2	Juglans regia	XP_018844108.1
TRINITY_DN4472_c0_g1_i1_5	1,06E-71	219	KOM56056.1	hypothetical protein LR48_Vigan10g194800	Vigna angularis	XP_014506213.1
TRINITY_DN10370_c0_g1_i1_3	0	738	OAY28247.1	hypothetical protein MANES_15G052800	Manihot esculenta	XP_008219009.1
TRINITY_DN8106_c0_g1_i1_5	1,74E-170	482	XP_018818519.1	probable 6-phosphogluconolactonase 1 isoform X1	Juglans regia	XP_018818520.1
TRINITY_DN11090_c0_g2_i6_4	1,91E-20	86,7	XP_018852998.1	60S acidic ribosomal protein P3-like	Juglans regia	XP_018860534.1
TRINITY_DN10461_c0_g1_i3_3	0	920	XP_018836913.1	serine carboxypeptidase-like	Juglans regia	ONI23789.1
TRINITY_DN579_c0_g1_i1_3	1,07E-126	385	KDP33292.1	hypothetical protein JCGZ_13079	Jatropha curcas	XP_012077722.1
TRINITY_DN14915_c0_g1_i1_3	8,92E-34	117	XP_009346482.1	putative gamma-glutamylcyclotransferase At3g02910	Pyrus x bretschneideri	XP_009347907.1
TRINITY_DN11178_c0_g1_i2_1	3,51E-95	282	XP_018828615.1	gamma-interferon-inducible lysosomal thiol reductase-like	Juglans regia	XP_008234981.2
TRINITY_DN8448_c0_g1_i1_1	3,94E-114	332	XP_018815442.1	mitochondrial import receptor subunit TOM20-like	Juglans regia	XP_018860144.1
TRINITY_DN11626_c0_g1_i4_5	0	1061	XP_018839574.1	transmembrane 9 superfamily member 8-like	Juglans regia	OAY27492.1
TRINITY_DN6292_c0_g2_i1_4	1,14E-88	269	XP_018838773.1	glyceraldehyde-3-phosphate dehydrogenase GAPCP2, chloroplastic-like	Juglans regia	XP_018840356.1
TRINITY_DN5457_c0_g1_i1_3	2,43E-139	396	XP_018841293.1	nicotinamidase 1-like	Juglans regia	XP_018841294.1
TRINITY_DN6422_c0_g1_i1_2	0	655	XP_018809442.1	glucuronokinase 1-like	Juglans regia	XP_018846472.1
TRINITY_DN7995_c0_g2_i1_1	4,38E-146	410	OAY45046.1	hypothetical protein MANES_07G026200	Manihot esculenta	OAY39696.1
TRINITY_DN8330_c0_g1_i1_3	5,75E-58	183	XP_018833952.1	acyl carrier protein 1, chloroplastic-like	Juglans regia	XP_018840027.1
TRINITY_DN10167_c0_g2_i1_3	3,95E-78	237	XP_018836192.1	60S ribosomal protein L24	Juglans regia	XP_007145271.1
TRINITY_DN9776_c0_g1_i4_2	1,17E-169	480	XP_018814237.1	V-type proton ATPase subunit D-like	Juglans regia	XP_018814238.1
TRINITY_DN11503_c0_g1_i1_1	4,28E-141	404	XP_018835591.1	2-hydroxyisoflavanone dehydratase-like	Juglans regia	XP_018835592.1
TRINITY_DN11383_c0_g1_i3_1	1,19E-111	331	XP_018847358.1	probable polygalacturonase	Juglans regia	XP_018809647.1
TRINITY_DN10659_c0_g1_i3_2	1,31E-144	410	XP_018810806.1	adenylyl-sulfate kinase 3	Juglans regia	XP_018810807.1
TRINITY_DN10371_c0_g1_i1_2	1,32E-95	281	XP_018825729.1	universal stress protein PHOS32-like isoform X2	Juglans regia	KDP27925.1
TRINITY_DN6420_c0_g1_i1_4	2,16E-77	232	XP_018812440.1	uncharacterized protein LOC108984828	Juglans regia	XP_018812441.1
TRINITY_DN10875_c0_g1_i2_2	0	779	XP_018815323.1	26S protease regulatory subunit S10B homolog B-like	Juglans regia	KEH36195.1
TRINITY_DN9826_c0_g1_i1_3	0	546	KHN05911.1	26S proteasome regulatory subunit 4 like A	Glycine soja	KHN48977.1
TRINITY_DN8975_c0_g1_i1_3	0	723	XP_018837796.1	argininosuccinate lyase, chloroplastic	Juglans regia	XP_009350549.1
TRINITY_DN8607_c0_g1_i2_1	6,74E-125	357	XP_018837970.1	germin-like protein subfamily 2 member 1	Juglans regia	XP_018806639.1
TRINITY_DN11635_c2_g1_i9_3	1,55E-74	228	XP_016194603.1	probable aldo-keto reductase 2	Arachis ipaensis	XP_018858776.1
TRINITY_DN17821_c0_g1_i1_3	7,16E-105	307	XP_018806260.1	uncharacterized protein LOC108979922 isoform X1	Juglans regia	XP_018806284.1
TRINITY_DN3258_c0_g1_i1_2	1,10E-130	390	XP_018858135.1	LOW QUALITY PROTEIN: phospholipase A-2-activating protein	Juglans regia	XP_018858135.1
TRINITY_DN10762_c0_g1_i1_1	3,62E-41	142	KEH29195.1	Lipid transfer protein, partial	Medicago truncatula	XP_013455191.1

TRINITY_DN10328_c0_g2_i1_2	0	854	XP_008236927.1	diaminopimelate decarboxylase 1, chloroplastic-like	Prunus mume	ONH91092.1
TRINITY_DN11289_c0_g2_i2_2	0	691	KDP30971.1	hypothetical protein JCGZ_11347	Jatropha curcas	XP_012079902.1
TRINITY_DN4969_c0_g1_i1_3	0	584	XP_018815797.1	mitochondrial import receptor subunit TOM40-1-like	Juglans regia	XP_018824435.1
TRINITY_DN12289_c0_g1_i1_5	5,59E-117	352	XP_018846638.1	uncharacterized protein LOC109010309	Juglans regia	OIV93417.1
TRINITY_DN11225_c0_g1_i1_3	4,58E-173	491	XP_018820980.1	isoflavone reductase-like protein	Juglans regia	XP_018820986.1
TRINITY_DN20631_c0_g1_i1_5	1,39E-35	125	XP_018856033.1	fatty-acid-binding protein 1	Juglans regia	OAY49712.1
TRINITY_DN15095_c0_g1_i1_4	1,76E-108	321	XP_018812652.1	heterogeneous nuclear ribonucleoprotein 1-like	Juglans regia	XP_018812652.1
TRINITY_DN10798_c0_g1_i1_3	0	1155	XP_008240342.1	dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit STT3B	Prunus mume	ONI09533.1
TRINITY_DN17510_c0_g1_i1_2	1,35E-112	331	XP_018851182.1	putative deoxyribonuclease TATDN1	Juglans regia	OAY43006.1
TRINITY_DN6021_c0_g1_i1_3	1,34E-119	343	XP_008220646.1	ER membrane protein complex subunit 4	Prunus mume	OAY53579.1
TRINITY_DN9758_c0_g1_i1_3	6,36E-87	260	XP_018846860.1	uncharacterized GPI-anchored protein At5g19250-like	Juglans regia	XP_018840499.1
TRINITY_DN2208_c0_g1_i1_1	0	563	XP_008220830.1	ornithine carbamoyltransferase, chloroplastic	Prunus mume	ONI32617.1
TRINITY_DN11722_c0_g1_i1_5	2,99E-58	186	XP_018805662.1	peroxidase 65-like	Juglans regia	XP_018831704.1
TRINITY_DN17467_c0_g1_i1_1	8,91E-96	291	XP_018845710.1	aspartate--tRNA ligase 2, cytoplasmic	Juglans regia	AES59117.1
TRINITY_DN3823_c0_g1_i1_6	0	532	XP_018834911.1	transmembrane protein 33 homolog	Juglans regia	XP_018834117.1
TRINITY_DN11535_c0_g1_i2_3	2,12E-82	243	XP_018815860.1	40S ribosomal protein S20-2	Juglans regia	XP_018815861.1
TRINITY_DN8730_c1_g1_i1_2	0	682	XP_018832781.1	thiosulfate/3-mercaptopyruvate sulfurtransferase 1, mitochondrial-like isoform X1	Juglans regia	KDP25080.1
TRINITY_DN2631_c0_g3_i1_2						
TRINITY_DN9280_c0_g2_i4_2	0	544	XP_018852431.1	eukaryotic translation initiation factor 3 subunit D-like	Juglans regia	XP_018852432.1
TRINITY_DN5611_c0_g4_i1_3	1,50E-154	436	ONI15307.1	hypothetical protein PRUPE_3G036800	Prunus persica	XP_018839178.1
TRINITY_DN4378_c0_g1_i2_2	0	1489	XP_018840722.1	alanine--tRNA ligase-like	Juglans regia	XP_018840731.1
TRINITY_DN4596_c0_g1_i1_5	2,66E-73	226	OAY23950.1	hypothetical protein MANES_18G120300	Manihot esculenta	OAY23951.1
TRINITY_DN11195_c0_g1_i1_2	0	665	XP_018810634.1	cytochrome P450 71D11-like	Juglans regia	XP_018810643.1
TRINITY_DN4293_c0_g1_i1_4	0	643	XP_018806029.1	zinc finger protein-like 1 homolog isoform X2	Juglans regia	XP_018806028.1
TRINITY_DN8155_c0_g1_i2_3	0	776	XP_018845323.1	isovaleryl-CoA dehydrogenase, mitochondrial	Juglans regia	ONI00604.1
TRINITY_DN9942_c0_g1_i1_4	0	921	XP_018830702.1	LOW QUALITY PROTEIN: tripeptidyl-peptidase 2-like	Juglans regia	XP_018828368.1
TRINITY_DN11521_c0_g1_i3_1	0	565	XP_018811219.1	eukaryotic translation initiation factor 2 subunit alpha homolog	Juglans regia	OAY54482.1
TRINITY_DN10407_c0_g1_i1_3	4,95E-175	500	XP_018823962.1	polygalacturonase-like	Juglans regia	XP_018810971.1
TRINITY_DN11080_c0_g1_i1_1	3,87E-82	244	XP_018833220.1	60S ribosomal protein L32-1-like	Juglans regia	XP_018833221.1
TRINITY_DN12642_c0_g1_i1_3	3,21E-137	392	XP_018840400.1	syntaxin-61-like	Juglans regia	XP_018840401.1
TRINITY_DN10964_c0_g1_i1_1	2,05E-72	218	XP_008222785.1	60S ribosomal protein L35-like	Prunus mume	ONI00395.1

TRINITY_DN11121_c0_g1_i1_6	1,05E-146	417	XP_018819049.1	probable caffeoyl-CoA O-methyltransferase At4g26220 isoform X1	Juglans regia	XP_018819050.1
TRINITY_DN8201_c0_g2_i1_1	0	827	XP_018858503.1	UDP-sulfoquinovose synthase, chloroplastic	Juglans regia	XP_018858504.1
TRINITY_DN2407_c0_g1_i1_1	0	545	XP_018837500.1	protein disulfide isomerase-like 1-6	Juglans regia	KDP37240.1
TRINITY_DN18360_c0_g1_i1_1	2,24E-48	158	XP_012068558.1	mitochondrial intermembrane space import and assembly protein 40 homolog	Jatropha curcas	KDP40464.1
TRINITY_DN7023_c0_g1_i2_1	1,94E-60	191	XP_018807798.1	uncharacterized protein LOC108981167	Juglans regia	XP_018807799.1
TRINITY_DN10334_c0_g1_i2_3	0	605	AXB70991.1	acetyl-CoA carboxylase carboxyltransferase beta subunit (chloroplast)	Betula pendula var. carelica	YP_009700057.1
TRINITY_DN3765_c0_g1_i1_1	1,75E-36	125	XP_018807308.1	probable glutathione S-transferase	Juglans regia	XP_012084509.1
TRINITY_DN6855_c0_g1_i1_1	1,79E-179	528	XP_018842400.1	eukaryotic translation initiation factor 3 subunit C isoform X1	Juglans regia	XP_018842401.1
TRINITY_DN9376_c1_g3_i1_4	0	878	XP_018810413.1	calcium-dependent protein kinase 26	Juglans regia	XP_018810414.1
TRINITY_DN13181_c0_g1_i1_4	3,54E-82	244	ACJ85830.1	unknown	Medicago truncatula	KRH38304.1
TRINITY_DN6915_c0_g2_i2_2	6,53E-47	150	OAY23002.1	hypothetical protein MANES_18G043700	Manihot esculenta	XP_018857441.1
TRINITY_DN8184_c1_g1_i1_1	0	825	XP_018828806.1	uncharacterized protein LOC108997121 isoform X3	Juglans regia	XP_018828805.1
TRINITY_DN19070_c0_g1_i1_2	2,23E-16	72	XP_018835558.1	cx9C motif-containing protein 4	Juglans regia	XP_019434942.1
TRINITY_DN20708_c0_g1_i1_4	4,72E-45	149	XP_012571951.1	ribonuclease P protein subunit p25-like protein isoform X2	Cicer arietinum	XP_004502885.1
TRINITY_DN11287_c0_g1_i2_3	2,13E-171	483	XP_018820882.1	glyoxylate/succinic semialdehyde reductase 1 isoform X1	Juglans regia	XP_018820891.1
TRINITY_DN9456_c0_g1_i4_3	7,63E-172	499	XP_018836156.1	protein decapping 5 isoform X1	Juglans regia	XP_018836164.1
TRINITY_DN8791_c0_g1_i1_3	6,12E-108	314	XP_018829585.1	rac-like GTP-binding protein ARAC1	Juglans regia	XP_018829587.1
TRINITY_DN4375_c0_g3_i1_3	9,49E-144	407	XP_018848977.1	ras-related protein Rab2BV-like	Juglans regia	XP_018848979.1
TRINITY_DN10343_c0_g1_i4_1	1,06E-147	428	XP_018847838.1	cyclase-associated protein 1-like	Juglans regia	XP_018807064.1
TRINITY_DN18958_c0_g1_i1_3	3,14E-103	309	XP_018842913.1	beta-glucuronosyltransferase GlcAT14A-like, partial	Juglans regia	XP_008243337.1
TRINITY_DN4412_c0_g1_i1_3	0	823	XP_018846853.1	RAN GTPase-activating protein 2	Juglans regia	XP_018846854.1
TRINITY_DN3095_c0_g1_i2_2	9,57E-90	266	XP_018860616.1	protein canopy-1	Juglans regia	XP_008237962.1
TRINITY_DN10358_c0_g1_i1_1	2,31E-174	488	XP_018828541.1	eukaryotic translation initiation factor 2 subunit beta like	Juglans regia	XP_018828542.1
TRINITY_DN16061_c0_g1_i1_3	4,32E-33	123	XP_018857281.1	villin-3-like isoform X1	Juglans regia	XP_018857282.1
TRINITY_DN5302_c0_g1_i1_6	6,72E-102	297	XP_018817591.1	aldo-keto reductase family 4 member C9-like	Juglans regia	OAY43567.1
TRINITY_DN11246_c1_g4_i2_1	1,68E-89	261	XP_018848065.1	40S ribosomal protein S13	Juglans regia	XP_018815859.1
TRINITY_DN19132_c0_g1_i1_5	2,61E-29	110	XP_018847246.1	desiccation-related protein PCC13-62-like	Juglans regia	XP_018855451.1
TRINITY_DN9764_c0_g1_i1_3	0	1223	AIU41641.1	ABC transporter family protein	Hevea brasiliensis	OAY52361.1
TRINITY_DN7237_c0_g2_i1_3	7,02E-103	301	XP_018827351.1	photosystem II reaction center PSB28 protein, chloroplastic	Juglans regia	XP_008235587.1
TRINITY_DN11279_c0_g2_i3_5	2,46E-180	507	XP_018840325.1	cysteine protease RD19A-like	Juglans regia	XP_018855046.1
TRINITY_DN10730_c0_g1_i1_1	0	1137	XP_018822704.1	alpha-L-arabinofuranosidase 1	Juglans regia	XP_018822706.1
TRINITY_DN11396_c1_g1_i3_2	4,28E-90	271	XP_018831695.1	two-component response regulator ARR5	Juglans regia	BAT76136.1

TRINITY_DN10977_c0_g1_i1_6	0	836	XP_018850655.1	DEAD-box ATP-dependent RNA helicase 56-like	Juglans regia	XP_018851705.1
TRINITY_DN9743_c0_g2_i2_1	1,23E-170	480	XP_019464492.1	26S proteasome non-ATPase regulatory subunit 8 homolog A-like	Lupinus angustifolius	XP_019464493.1
TRINITY_DN10127_c0_g1_i2_5	4,62E-73	219	XP_018857781.1	60S ribosomal protein L35a-1-like	Juglans regia	XP_018821837.1
TRINITY_DN10738_c0_g1_i2_5	0	1072	XP_018834473.1	asparagine synthetase [glutamine-hydrolyzing] 3	Juglans regia	XP_018847046.1
TRINITY_DN6947_c0_g1_i5_4	1,80E-29	112	XP_018829126.1	calnexin homolog	Juglans regia	XP_018829196.1
TRINITY_DN4336_c0_g1_i1_3	1,40E-180	505	XP_008358263.1	bifunctional aspartokinase/homoserine dehydrogenase 2, chloroplastic-like	Malus domestica	XP_018834214.1
TRINITY_DN11277_c0_g1_i2_2	0	845	XP_018849108.1	glutamate decarboxylase-like	Juglans regia	XP_018823508.1
TRINITY_DN3905_c0_g2_i2_3	1,85E-163	464	XP_018814733.1	ubiquinone biosynthesis protein COQ9, mitochondrial-like	Juglans regia	ONI21607.1
TRINITY_DN5130_c0_g2_i1_3	7,19E-26	103	XP_018845086.1	L-arabinokinase-like	Juglans regia	ACU14214.1
TRINITY_DN21282_c0_g1_i1_3	8,64E-64	210	XP_018816352.1	villin-3-like isoform X3	Juglans regia	XP_018816352.1
TRINITY_DN7375_c0_g1_i1_1	7,33E-70	214	KYP70253.1	hypothetical protein KK1_009464	Cajanus cajan	XP_020211581.1
TRINITY_DN10410_c0_g1_i1_3	1,71E-179	501	XP_018817323.1	NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial-like	Juglans regia	XP_018830173.1
TRINITY_DN10668_c0_g1_i2_2	6,78E-133	389	XP_018826990.1	uncharacterized protein LOC108995816	Juglans regia	OAY42107.1
TRINITY_DN1129_c0_g1_i1_2	1,52E-159	452	OAY27542.1	hypothetical protein MANES_16G133500	Manihot esculenta	XP_008379609.1
TRINITY_DN9363_c0_g1_i2_2	1,61E-169	475	XP_018811310.1	adenylate kinase 4	Juglans regia	XP_008239440.1
TRINITY_DN8678_c0_g3_i5_1	1,74E-94	281	OIV93915.1	hypothetical protein TanjilG_05618	Lupinus angustifolius	XP_019421602.1
TRINITY_DN9856_c0_g1_i2_6	0	678	XP_018828640.1	bifunctional UDP-glucose 4-epimerase and UDP-xylose 4-epimerase 1	Juglans regia	XP_018811940.1
TRINITY_DN16281_c0_g1_i1_4	1,23E-30	118	XP_018820283.1	delta-1-pyrroline-5-carboxylate synthase-like	Juglans regia	XP_018839115.1
TRINITY_DN8090_c1_g1_i1_6	2,23E-106	309	XP_018828370.1	nucleoid-associated protein At4g30620, chloroplastic-like	Juglans regia	XP_015933002.1
TRINITY_DN18348_c0_g1_i1_1	3,96E-62	208	XP_018815316.1	coatomer subunit alpha-1	Juglans regia	KHN47074.1
TRINITY_DN11641_c0_g1_i5_1	0	567	XP_018858114.1	protein disulfide-isomerase-like	Juglans regia	XP_018858114.1
TRINITY_DN13961_c0_g1_i1_1	1,89E-27	107	XP_008354813.1	4-coumarate--CoA ligase-like 5	Malus domestica	XP_008232324.1
TRINITY_DN1808_c0_g1_i1_6	3,73E-67	207	XP_008227802.1	ubiquitin-40S ribosomal protein S27a	Prunus mume	XP_008389677.1
TRINITY_DN10282_c0_g1_i6_1	6,25E-98	285	XP_018827597.1	monothiol glutaredoxin-S15, mitochondrial	Juglans regia	XP_018827598.1
TRINITY_DN11194_c0_g1_i1_2	4,22E-76	231	OAY37464.1	hypothetical protein MANES_11G103800	Manihot esculenta	XP_018851840.1
TRINITY_DN4777_c0_g2_i2_3	4,36E-116	338	emb|CAX05442.1	unnamed protein product	Glycine max	CAX05469.1
TRINITY_DN11197_c0_g1_i1_5	9,42E-78	237	XP_018808548.1	outer envelope pore protein 16-3, chloroplastic/mitochondrial	Juglans regia	XP_008367365.1
TRINITY_DN1802_c0_g1_i1_4	3,91E-83	251	XP_018819328.1	V-type proton ATPase subunit E2 isoform X2	Juglans regia	XP_018832413.1
TRINITY_DN10578_c0_g2_i1_1	4,26E-85	264	XP_018838441.1	clathrin light chain 1-like	Juglans regia	ONI17384.1
TRINITY_DN17430_c0_g1_i1_5	5,14E-79	235	KDP22858.1	hypothetical protein JCGZ_00445	Jatropha curcas	AID51396.1
TRINITY_DN9138_c0_g1_i1_4	3,67E-107	311	XP_018835316.1	peptidyl-prolyl cis-trans isomerase CYP18-2	Juglans regia	ONH96008.1
TRINITY_DN10772_c1_g1_i1_2	0	645	XP_018807984.1	serine/threonine-protein phosphatase PP2A catalytic subunit-like	Juglans regia	XP_008351677.1
TRINITY_DN11439_c0_g1_i2_4	5,20E-169	474	XP_018824239.1	proteasome subunit beta type-4-like	Juglans regia	XP_018844541.1

TRINITY_DN7730_c0_g1_i3_4	0	657	259432124|emb|CBF70796.1	unnamed protein product	Betula pendula	|259455288|emb|CBF86074.1
TRINITY_DN10562_c0_g1_i5_3	0	891	XP_018819043.1	xaa-Pro dipeptidase	Juglans regia	XP_008242428.1
TRINITY_DN8163_c0_g1_i1_1	0	761	XP_018829218.1	aminoacylase-1	Juglans regia	XP_009340792.1
TRINITY_DN10420_c0_g1_i3_2	4,88E-161	455	ONH94455.1	hypothetical protein PRUPE_7G017700	Prunus persica	XP_007204707.1
TRINITY_DN10122_c0_g1_i1_3	6,67E-59	184	XP_018821252.1	glutaredoxin-like	Juglans regia	XP_018837755.1
TRINITY_DN7204_c0_g1_i1_1	5,92E-18	84,7	XP_018852304.1	putative HVA22-like protein g	Juglans regia	AES73999.1
TRINITY_DN11311_c0_g1_i2_2	0	689	KHN12782.1	Alpha-amylase	Glycine soja	KRH05687.1
TRINITY_DN11251_c0_g1_i2_1	0	1127	XP_018821368.1	chaperone protein ClpB3, chloroplastic-like	Juglans regia	XP_018816799.1
TRINITY_DN2678_c0_g1_i1_1	8,49E-36	131	XP_018839115.1	delta-1-pyrroline-5-carboxylate synthase-like	Juglans regia	XP_018820283.1
TRINITY_DN9042_c0_g1_i1_3	6,11E-154	437	ONH95000.1	hypothetical protein PRUPE_7G045500	Prunus persica	XP_007202429.1
TRINITY_DN134_c0_g1_i3_5	0	666	XP_018836276.1	probable rhamnogalacturonate lyase B, partial	Juglans regia	KDP41508.1
TRINITY_DN7354_c1_g1_i1_2	2,41E-112	324	XP_018836279.1	uncharacterized protein LOC109002826	Juglans regia	XP_018836280.1
TRINITY_DN7673_c0_g1_i1_3	3,27E-122	353	XP_018809846.1	ATPase 2, plasma membrane-type-like, partial	Juglans regia	XP_018844325.1
TRINITY_DN5029_c0_g1_i1_6	0	1365	XP_018836327.1	uncharacterized protein LOC109002866	Juglans regia	OAY56146.1
TRINITY_DN4009_c0_g1_i2_3	2,70E-78	239	OAY56694.1	hypothetical protein MANES_02G037700	Manihot esculenta	XP_008230854.1
TRINITY_DN4424_c0_g1_i3_3	0	738	XP_018850112.1	uncharacterized protein LOC109012766	Juglans regia	XP_019432415.1
TRINITY_DN17664_c0_g2_i1_3	7,91E-07	51,6	XP_018856751.1	eukaryotic translation initiation factor 5B-like, partia	Juglans regia	XP_018856751.1
TRINITY_DN7316_c0_g1_i1_3	0	635	ONH93998.1	hypothetical protein PRUPE_8G265300	Prunus persica	XP_007200983.1
TRINITY_DN9014_c0_g1_i1_3	2,54E-137	392	XP_018813944.1	probable calcium-binding protein CML21	Juglans regia	XP_018813954.1
TRINITY_DN17081_c0_g1_i1_1	1,67E-60	187	AFK44147.1	unknown	Medicago truncatula	XP_018809529.1
TRINITY_DN7215_c0_g1_i1_5	2,67E-24	94	XP_004504298.1	protein transport protein Sec61 subunit beta-like	Cicer arietinum	XP_014490350.1
TRINITY_DN11034_c0_g1_i3_3	8,69E-76	230	XP_018851174.1	putative phosphatidylglycerol/phosphatidylinositol transfer protein DDB_G0282179	Juglans regia	XP_018836592.1
TRINITY_DN21713_c0_g1_i1_2	3,23E-20	90,1	XP_018843078.1	calponin homology domain-containing protein DDB_G0272472	Juglans regia	XP_018843079.1
TRINITY_DN7461_c0_g1_i1_6	1,35E-137	400	XP_018824670.1	uncharacterized protein LOC108994051 isoform X1	Juglans regia	XP_018824678.1
TRINITY_DN10238_c0_g2_i1_1	0	1147	XP_018852174.1	probable methyltransferase PMT21	Juglans regia	XP_018852176.1
TRINITY_DN2462_c0_g2_i1_2	1,91E-117	353	XP_018837102.1	chromatin assembly factor 1 subunit A isoform X1	Juglans regia	XP_018837102.1
TRINITY_DN16740_c0_g1_i1_5						
TRINITY_DN7713_c0_g1_i1_6	1,47E-46	152	XP_018860422.1	protein BOLA2	Juglans regia	ACU15761.1
TRINITY_DN7723_c0_g1_i2_2	2,99E-162	461	XP_008232832.1	probable fructokinase-7	Prunus mume	XP_009375843.1
TRINITY_DN10456_c0_g1_i4_1	8,44E-88	263	XP_018830835.1	protein phosphatase inhibitor 2 isoform X2	Juglans regia	XP_018830836.1
TRINITY_DN10811_c0_g1_i1_2	6,13E-111	323	XP_019460659.1	LIM domain-containing protein PLIM2c-like	Lupinus angustifolius	ONI23012.1
TRINITY_DN10241_c0_g2_i1_1	0	606	XP_018836309.1	aspartic proteinase-like	Juglans regia	XP_018836310.1

TRINITY_DN10843_c0_g2_i2_2	6,04E-117	348	AXB70991.1	acetyl-CoA carboxylase carboxyltransferase beta subunit (chloroplast)	Betula pendula var. carelica	YP_009700057.1
TRINITY_DN888_c0_g1_i1_1	1,11E-108	330	XP_018808540.1	TBCC domain-containing protein 1-like	Juglans regia	XP_018843632.1
TRINITY_DN9357_c0_g1_i1_4	0	1189	XP_018806855.1	NF-X1-type zinc finger protein NFXL1	Juglans regia	XP_018806855.1
TRINITY_DN10551_c0_g1_i1_3	0	981	XP_018846380.1	glucose-6-phosphate 1-dehydrogenase, cytoplasmic isoform-like isoform X2	Juglans regia	XP_018846377.1
TRINITY_DN9412_c0_g1_i1_2	0	711	dbj|GAU15760.1	hypothetical protein TSUD_235760	Trifolium subterraneum	KYP78448.1
TRINITY_DN14016_c0_g2_i1_2	0	734	XP_008231125.1	sulfite oxidase	Prunus mume	ONI19931.1
TRINITY_DN5499_c0_g1_i1_3	4,32E-129	372	XP_018835130.1	uncharacterized oxidoreductase At4g09670-like	Juglans regia	KYP59370.1
TRINITY_DN10701_c0_g1_i2_1	3,73E-108	317	XP_018834440.1	40S ribosomal protein S2-4-like	Juglans regia	XP_018837209.1
TRINITY_DN5059_c0_g1_i1_5	8,79E-144	414	XP_018807956.1	serine hydroxymethyltransferase, mitochondrial-like	Juglans regia	OAY35689.1
TRINITY_DN6933_c0_g1_i1_2	1,46E-164	496	XP_018812044.1	large proline-rich protein BAG6-like isoform X2	Juglans regia	XP_018812043.1
TRINITY_DN10774_c0_g1_i1_1	0	606	XP_018815793.1	eukaryotic translation initiation factor 3 subunit H	Juglans regia	ONI29040.1
TRINITY_DN10849_c0_g1_i2_2	3,17E-20	86,3	XP_018852386.1	protein SPIRAL1-like 1	Juglans regia	XP_018852387.1
TRINITY_DN10042_c0_g1_i2_2	0	671	XP_018848132.1	uncharacterized protein LOC109011398	Juglans regia	XP_008238614.1
TRINITY_DN8175_c0_g1_i1_2	4,01E-140	417	XP_018844607.1	cation/H(+) antiporter 15-like	Juglans regia	KDP39397.1
TRINITY_DN11149_c0_g1_i1_3	0	587	XP_018807006.1	ribosome maturation protein SBDS	Juglans regia	KDP43068.1
TRINITY_DN14909_c0_g1_i1_3	0	811	XP_018834925.1	uncharacterized protein LOC109001888	Juglans regia	XP_018834926.1
TRINITY_DN6906_c0_g1_i2_2	0	555	XP_018819297.1	2-dehydro-3-deoxyphosphooctonate aldolase	Juglans regia	XP_019459201.1
TRINITY_DN4515_c0_g2_i1_2	1,08E-27	100	XP_018807039.1	nuclear transport factor 2 isoform X4	Juglans regia	XP_018807041.1
TRINITY_DN11230_c0_g2_i7_6	3,58E-54	176	XP_012088486.1	SKP1-like protein 1B	Jatropha curcas	KDP23982.1
TRINITY_DN19409_c0_g1_i1_3	9,01E-88	261	XP_018821879.1	tropinone reductase homolog At5g06060-like	Juglans regia	OAY38586.1
TRINITY_DN10897_c0_g1_i1_1	4,08E-150	432	XP_018816861.1	ubiquitin receptor RAD23c-like	Juglans regia	XP_018815486.1
TRINITY_DN7208_c0_g1_i1_2	3,26E-176	495	XP_018825934.1	bifunctional monothiol glutaredoxin-S16, chloroplastic	Juglans regia	XP_008243461.1
TRINITY_DN7184_c0_g1_i2_3	2,58E-33	115	XP_018815086.1	cytochrome b-c1 complex subunit 8	Juglans regia	OAY24007.1
TRINITY_DN6124_c0_g1_i2_1	0	812	XP_018812297.1	sorting and assembly machinery component 50 homolog B-like	Juglans regia	XP_018821909.1
TRINITY_DN17685_c0_g1_i1_2	1,94E-76	231	XP_018827015.1	40S ribosomal protein S3-2-like	Juglans regia	XP_018844535.1
TRINITY_DN10323_c0_g3_i1_1	0	1060	XP_018842853.1	soluble starch synthase 1, chloroplastic/amyloplastic	Juglans regia	KDP42052.1
TRINITY_DN9450_c0_g1_i1_2	0	555	XP_018860411.1	coatomer subunit epsilon-1	Juglans regia	XP_018828599.1
TRINITY_DN11814_c0_g1_i1_6	0	798	XP_018811056.1	tryptophan synthase beta chain 1-like	Juglans regia	XP_018824063.1
TRINITY_DN22082_c0_g1_i1_3	3,71E-35	129	XP_016188001.1	serine carboxypeptidase-like 40	Arachis ipaensis	XP_015952981.1
TRINITY_DN7979_c0_g1_i2_2	0	563	XP_018829441.1	putative glucose-6-phosphate 1-epimerase	Juglans regia	OAY57420.1
TRINITY_DN1283_c0_g1_i1_3	8,09E-54	171	XP_007148307.1	hypothetical protein PHAVU_006G197500g	Phaseolus vulgaris	ESW20301.1
TRINITY_DN9248_c0_g1_i2_3	7,83E-138	399	KDP30075.1	hypothetical protein JCGZ_18623	Jatropha curcas	XP_012081293.1

TRINITY_DN10710_c2_g1_i2_2	1,41E-153	441	XP_018846484.1	28 kDa ribonucleoprotein, chloroplastic-like	Juglans regia	XP_018845781.1
TRINITY_DN5831_c1_g1_i1_5	1,05E-139	410	XP_018840476.1	long chain acyl-CoA synthetase 6, peroxisomal-like	Juglans regia	XP_018846842.1
TRINITY_DN8425_c0_g1_i1_1	1,23E-46	152	XP_018852827.1	V-type proton ATPase subunit G-like	Juglans regia	XP_018852828.1
TRINITY_DN1080_c0_g1_i1_2	1,61E-22	89,4	XP_019444359.1	40S ribosomal protein S23-2-like	Lupinus angustifolius	XP_004493946.1
TRINITY_DN10249_c0_g1_i1_1	4,25E-107	315	XP_018859182.1	cinnamoyl-CoA reductase 2-like isoform X1	Juglans regia	KDP36740.1
TRINITY_DN2941_c0_g1_i1_2	4,82E-27	106	XP_020210577.1	dihydroxy-acid dehydratase, chloroplastic	Cajanus cajan	XP_008380606.1
TRINITY_DN17262_c0_g1_i1_3	0	679	XP_015954179.1	mitochondrial-processing peptidase subunit alpha	Arachis duranensis	XP_004503508.1
TRINITY_DN6331_c0_g1_i2_6	0	559	XP_018834193.1	dynamin-2A-like	Juglans regia	XP_018831147.1
TRINITY_DN9436_c0_g1_i2_2	1,21E-41	137	XP_012066031.1	cytochrome b-c1 complex subunit 6	Jatropha curcas	XP_008218833.1
TRINITY_DN11363_c0_g2_i3_3	0	1020	XP_018826910.1	methylmalonate-semialdehyde dehydrogenase acylating, [mitochondrial]	Juglans regia	XP_012074593.1
TRINITY_DN16910_c0_g1_i1_4	1,83E-30	112	XP_018858056.1	endonuclease 2 isoform X3	Juglans regia	XP_018858046.1
TRINITY_DN791_c0_g1_i1_6	1,54E-148	423	OAY62541.1	hypothetical protein MANES_01G275200, partial	Manihot esculenta	XP_018843513.1
TRINITY_DN12144_c0_g1_i1_4	0	564	XP_018826576.1	probable methyltransferase PMT2	Juglans regia	XP_008356626.1
TRINITY_DN3683_c0_g2_i2_1	0	879	XP_018829254.1	glutamate--cysteine ligase, chloroplastic	Juglans regia	XP_018829255.1
TRINITY_DN10116_c1_g2_i1_2	0	672	XP_018831026.1	glutamate dehydrogenase A	Juglans regia	XP_018808101.1
TRINITY_DN4525_c0_g1_i1_2	9,24E-66	208	XP_018825826.1	ferritin-3, chloroplastic-like	Juglans regia	OAY43763.1
TRINITY_DN5136_c0_g1_i1_3	0	587	XP_018830669.1	L-idonate 5-dehydrogenase-like	Juglans regia	OAY48229.1
TRINITY_DN7885_c0_g1_i8_1	0	786	XP_018841063.1	26S protease regulatory subunit 8 homolog A	Juglans regia	XP_018847874.1
TRINITY_DN6908_c0_g1_i1_6	3,85E-138	392	XP_018833476.1	VAMP-like protein YKT61	Juglans regia	XP_018850344.1
TRINITY_DN6313_c0_g1_i1_1	1,17E-125	358	emb|CAA98179.1	RAB11C	Lotus japonicus	|Q40193.1|RB11C_LOTJA RecName: Full=Ras-related protein Rab11C
TRINITY_DN8703_c0_g1_i1_3	0	550	XP_018812700.1	SNF1-related protein kinase regulatory subunit gamma-1-like	Juglans regia	XP_018812702.1
TRINITY_DN8590_c0_g1_i1_2	5,23E-72	222	XP_008246159.1	uncharacterized protein LOC103344327	Prunus mume	ONI04228.1
TRINITY_DN8759_c0_g1_i1_1	0	674	XP_018852657.1	dnaJ protein homolog	Juglans regia	XP_018805733.1
TRINITY_DN6356_c0_g1_i1_3	5,36E-151	440	XP_018813002.1	actin-interacting protein 1-2-like	Juglans regia	KDP41126.1
TRINITY_DN9997_c0_g1_i1_5	0	782	XP_018816788.1	alpha-1,4 glucan phosphorylase L isozyme, chloroplastic/amyloplastic	Juglans regia	KRH18405.1
TRINITY_DN10922_c0_g1_i1_2	3,53E-123	358	KDP29852.1	hypothetical protein JCGZ_18427	Jatropha curcas	XP_012081550.1
TRINITY_DN18757_c0_g1_i1_1	1,02E-34	128	XP_017184179.1	LOW QUALITY PROTEIN: coatomer subunit alpha-1-like	Malus domestica	ONI11196.1
TRINITY_DN11571_c4_g3_i5_2	0	820	KRH62139.1	hypothetical protein GLYMA_04G088500	Glycine max	XP_003522731.1
TRINITY_DN7455_c0_g1_i3_2	0	765	XP_018848499.1	threonine--tRNA ligase, mitochondrial 1-like	Juglans regia	XP_012092067.1
TRINITY_DN7736_c0_g1_i2_1	0	775	XP_018827777.1	carbamoyl-phosphate synthase small chain, chloroplastic	Juglans regia	XP_009364736.1
TRINITY_DN6430_c0_g1_i2_2	0	529	ONI05269.1	hypothetical protein PRUPE_6G365100	Prunus persica	XP_007205316.1

TRINITY_DN11913_c0_g1_i1_2	7,18E-140	396	OAY58075.1	hypothetical protein MANES_02G147600	Manihot esculenta	XP_018808841.1
TRINITY_DN11663_c2_g1_i1_3	0	669	XP_018833905.1	3-oxo-Delta(4,5)-steroid 5-beta-reductase-like	Juglans regia	XP_018836149.1
TRINITY_DN5983_c0_g1_i1_2	2,10E-69	211	XP_018823645.1	uncharacterized protein LOC108993249	Juglans regia	XP_018857024.1
TRINITY_DN8699_c1_g1_i2_2	2,17E-30	110	ONH98720.1	hypothetical protein PRUPE_7G263500	Prunus persica	AES92510.1
TRINITY_DN6592_c0_g1_i1_1	5,06E-110	322	XP_018836742.1	mitochondrial import receptor subunit TOM20-like	Juglans regia	XP_018852624.1
TRINITY_DN10388_c0_g2_i6_4	0	942	XP_008218932.1	subtilisin-like protease SBT5.4	Prunus mume	XP_008353281.1
TRINITY_DN11021_c0_g1_i1_2	0	553	XP_018856631.1	enoyl-CoA hydratase 2, peroxisomal	Juglans regia	OAY22551.1
TRINITY_DN3815_c0_g1_i1_1	0	934	XP_018825735.1	eukaryotic translation initiation factor 2 subunit gamma-like	Juglans regia	XP_018825736.1
TRINITY_DN10218_c0_g1_i2_2	0	994	XP_018839513.1	nicalin-1 isoform X1	Juglans regia	XP_018839514.1
TRINITY_DN6921_c0_g1_i1_1	0	648	XP_018848547.1	protein transport protein SEC23-like	Juglans regia	XP_018848548.1
TRINITY_DN8720_c0_g1_i1_2	1,56E-75	228	XP_018841009.1	uncharacterized protein At2g34160-like	Juglans regia	XP_018858938.1
TRINITY_DN8463_c0_g2_i1_5	0	1172	XP_018817805.1	leucine--tRNA ligase, cytoplasmic isoform X2	Juglans regia	XP_018817804.1
TRINITY_DN9325_c0_g2_i1_5	0	679	XP_018833047.1	malonate--CoA ligase-like isoform X4	Juglans regia	XP_018843242.1
TRINITY_DN10162_c0_g1_i1_5	0	514	XP_018806389.1	60S acidic ribosomal protein P0	Juglans regia	OAY46226.1
TRINITY_DN9738_c1_g1_i1_3	1,85E-29	107	XP_018856764.1	cysteine proteinase inhibitor	Juglans regia	XP_018843658.1
TRINITY_DN10335_c0_g1_i1_1						
TRINITY_DN4334_c0_g1_i1_3	2,62E-114	329	XP_018845596.1	translation machinery-associated protein 22	Juglans regia	OAY53925.1
TRINITY_DN11667_c0_g1_i5_1	0	601	XP_004488810.1	elongation factor 2	Cicer arietinum	XP_004488812.1
TRINITY_DN21463_c0_g1_i1_5	1,09E-48	168	XP_004513861.1	villin-3-like	Cicer arietinum	XP_016183542.1
TRINITY_DN9495_c0_g1_i1_2	0	1172	XP_018813183.1	phosphoenolpyruvate carboxykinase [ATP-like]	Juglans regia	XP_018813767.1
TRINITY_DN8648_c0_g1_i4_3	0	696	XP_018810395.1	peroxisomal (S)-2-hydroxy-acid oxidase GLO1	Juglans regia	XP_018819691.1
TRINITY_DN20196_c0_g1_i1_2	5,64E-46	161	XP_018809774.1	protein transport protein SEC31 homolog B-like isoform X1	Juglans regia	XP_018809776.1
TRINITY_DN369_c0_g2_i1_2	3,26E-38	132	XP_018833669.1	chorismate mutase 2	Juglans regia	XP_018848607.1
TRINITY_DN4975_c0_g2_i1_1	2,15E-102	301	OAY51228.1	hypothetical protein MANES_05G197500	Manihot esculenta	ONI25827.1
TRINITY_DN10898_c0_g1_i1_3	2,97E-46	157	XP_018834886.1	translocon-associated protein subunit beta-like isoform X1	Juglans regia	XP_018834081.1
TRINITY_DN19644_c0_g1_i1_6	1,01E-76	244	XP_018815884.1	acid beta-fructofuranosidase-like	Juglans regia	AFU56882.1
TRINITY_DN10905_c1_g1_i1_1	1,44E-179	510	XP_018844115.1	DEAD-box ATP-dependent RNA helicase 38	Juglans regia	OAY42787.1
TRINITY_DN11102_c1_g1_i1_1	1,79E-40	139	XP_008225042.1	AB hydrolase superfamily protein YfhM-like	Prunus mume	ONI10359.1
TRINITY_DN8311_c0_g1_i1_6	6,24E-165	463	XP_018835580.1	2-hydroxyisoflavanone dehydratase-like	Juglans regia	XP_018835581.1
TRINITY_DN8932_c0_g2_i2_2	0	877	XP_018806310.1	signal recognition particle subunit SRP72-like	Juglans regia	ONI30173.1
TRINITY_DN7024_c0_g1_i1_2	0	1138	XP_020230079.1	beta-adaptin-like protein C	Cajanus cajan	KYP52643.1
TRINITY_DN5823_c0_g1_i1_2	5,04E-130	402	XP_018806543.1	isoleucine--tRNA ligase, cytoplasmic	Juglans regia	XP_009337446.1
TRINITY_DN7700_c0_g1_i1_1	2,08E-35	127	XP_018853171.1	probable protein phosphatase 2C 11	Juglans regia	XP_018857120.1
TRINITY_DN5993_c0_g2_i1_6	2,33E-47	153	KRH26085.1	hypothetical protein GLYMA_12G151400	Glycine max	KRH26086.1

TRINITY_DN9585_c0_g1_i1_2	0	699	XP_018826923.1	proline iminopeptidase	Juglans regia	XP_008236170.1
TRINITY_DN10250_c0_g1_i1_4	2,09E-63	197	XP_018841906.1	DNA-binding protein DDB_G0278111-like isoform X2	Juglans regia	XP_018841907.1
TRINITY_DN11946_c0_g1_i1_6	3,35E-122	367	XP_018859162.1	putative 3,4-dihydroxy-2-butanone kinase, partial	Juglans regia	XP_018823489.1
TRINITY_DN6080_c0_g1_i1_2	0	677	XP_018844342.1	3-isopropylmalate dehydrogenase 2, chloroplastic-like	Juglans regia	OAY36953.1
TRINITY_DN7401_c0_g1_i1_3	0	1100	XP_018815365.1	probable alkaline/neutral invertase B	Juglans regia	XP_018815366.1
TRINITY_DN2864_c0_g1_i1_4	4,69E-56	190	OAY52464.1	hypothetical protein MANES_04G085400	Manihot esculenta	XP_018815316.1
TRINITY_DN9953_c0_g1_i1_3	7,10E-109	315	XP_018841912.1	coatomer subunit zeta-1-like	Juglans regia	XP_008225364.1
TRINITY_DN4450_c0_g2_i1_2	1,21E-34	131	XP_018807796.1	polyadenylate-binding protein 3-like	Juglans regia	XP_018848084.1
TRINITY_DN18876_c0_g1_i1_5	6,58E-82	251	XP_018500437.1	glucose-1-phosphate adenylyltransferase large subunit 1, chloroplastic	Pyrus x bretschneideri	KRH51054.1
TRINITY_DN10281_c0_g1_i1_1	3,28E-98	286	KDP26654.1	hypothetical protein JCGZ_17812	Jatropha curcas	XP_012085480.1
TRINITY_DN7840_c0_g1_i1_3	5,31E-65	209	XP_018845710.1	aspartate--tRNA ligase 2, cytoplasmic	Juglans regia	KRH15638.1
TRINITY_DN8316_c0_g1_i1_3	5,42E-134	382	XP_018813683.1	60S ribosomal protein L10a-like	Juglans regia	CAX02806.1
TRINITY_DN15493_c0_g1_i1_5	9,82E-47	163	dbj|BAT88327.1	hypothetical protein VIGAN_05178900	Vigna angularis var. angularis	XP_007146784.1
TRINITY_DN8497_c0_g1_i1_2	0	790	XP_018809942.1	IAA-amino acid hydrolase ILR1-like 4	Juglans regia	XP_008242448.1
TRINITY_DN9872_c0_g1_i2_5	4,10E-84	249	XP_008237928.1	V-type proton ATPase subunit F	Prunus mume	XP_018830250.1
TRINITY_DN5492_c0_g2_i1_3	0	1443	XP_018851882.1	ubiquitin carboxyl-terminal hydrolase 14 isoform X1	Juglans regia	OAY54976.1
TRINITY_DN10815_c0_g2_i1_3	4,90E-114	328	OAY53361.1	hypothetical protein MANES_04G157000	Manihot esculenta	OIW08118.1
TRINITY_DN9629_c0_g1_i1_1	0	525	XP_018824738.1	phytanoyl-CoA dioxygenase	Juglans regia	XP_008243375.1
TRINITY_DN9337_c0_g1_i3_1	0	592	XP_018848102.1	dehydrogenase/reductase SDR family member 12 isoform X2	Juglans regia	XP_018848101.1
TRINITY_DN2350_c0_g1_i1_3						
TRINITY_DN4704_c0_g1_i1_2	6,83E-117	343	XP_008240156.1	tubulin beta chain-like	Prunus mume	ONI09332.1
TRINITY_DN10796_c0_g1_i2_5	1,02E-175	494	XP_018821859.1	alpha-soluble NSF attachment protein 2-like	Juglans regia	KYP44939.1
TRINITY_DN9670_c0_g1_i1_4	5,16E-76	232	XP_018810316.1	thioredoxin F-type, chloroplastic-like	Juglans regia	XP_009340388.1
TRINITY_DN2761_c0_g2_i1_2	5,65E-132	385	KHN12100.1	Aldehyde dehydrogenase family 2 member B7, mitochondrial	Glycine soja	KRH74615.1
TRINITY_DN7182_c0_g1_i2_2	5,55E-71	232	XP_018851852.1	5-methyltetrahydropteroyltriglutamate--homocysteine methyltransferase-like	Juglans regia	BAT89114.1
TRINITY_DN11525_c0_g1_i1_2	0	567	XP_018830936.1	ADP,ATP carrier protein, mitochondrial	Juglans regia	XP_018830937.1
TRINITY_DN4779_c0_g2_i1_1	5,79E-47	155	OAY41761.1	hypothetical protein MANES_09G127600	Manihot esculenta	ONI25929.1
TRINITY_DN11487_c0_g2_i1_1	2,49E-157	447	XP_008221201.1	24-methylenesterol C-methyltransferase 2	Prunus mume	ONI32296.1
TRINITY_DN11353_c0_g1_i2_3	1,32E-141	406	XP_018838151.1	26S proteasome non-ATPase regulatory subunit 14 homolog	Juglans regia	XP_018857189.1
TRINITY_DN4833_c0_g1_i1_1	0	797	XP_018816807.1	glutamate decarboxylase 1	Juglans regia	BAF80895.1
TRINITY_DN7188_c0_g2_i3_2	3,14E-71	221	XP_018847055.1	protein FATTY ACID EXPORT 1, chloroplastic-like	Juglans regia	XP_018844008.1
TRINITY_DN10558_c0_g1_i2_4	0	526	XP_018846483.1	proteasome subunit beta type-7-B	Juglans regia	KDP46386.1

TRINITY_DN10992_c0_g1_i1_2	0	1290	XP_018806637.1	glutamate--tRNA ligase, cytoplasmic	Juglans regia	XP_018806638.1
TRINITY_DN23494_c0_g1_i1_6	1,83E-79	246	XP_018839811.1	glucan endo-1,3-beta-glucosidase 8	Juglans regia	AFK43211.1
TRINITY_DN6209_c0_g1_i3_2	4,85E-172	482	OAY23218.1	hypothetical protein MANES_18G060900	Manihot esculenta	XP_018812968.1
TRINITY_DN1928_c0_g1_i2_3	6,08E-81	244	XP_018850753.1	protein BOBBER 1	Juglans regia	XP_018809881.1
TRINITY_DN22312_c0_g1_i1_4	2,41E-54	176	XP_018857864.1	7-methylguanosine phosphate-specific 5'-nucleotidase A-like	Juglans regia	XP_018857865.1
TRINITY_DN137_c0_g1_i1_1	2,60E-24	99	XP_018817293.1	protein transport protein SEC31 homolog B-like isoform X1	Juglans regia	XP_018817298.1
TRINITY_DN7231_c0_g1_i1_1	1,41E-82	248	XP_018820994.1	phosphopantetheine adenylyltransferase	Juglans regia	XP_009371619.1
TRINITY_DN8793_c0_g1_i1_4	4,08E-110	318	OIW17591.1	hypothetical protein TanjilG_00219	Lupinus angustifolius	XP_019429396.1
TRINITY_DN16084_c0_g1_i1_4	1,85E-44	156	XP_018849887.1	heat shock protein 90-6, mitochondrial isoform X2	Juglans regia	XP_018849886.1
TRINITY_DN10831_c0_g1_i1_3	5,00E-46	152	XP_018848549.1	cysteine proteinase inhibitor B-like	Juglans regia	XP_018848556.1
TRINITY_DN15011_c0_g1_i1_2	0	567	XP_018817805.1	leucine--tRNA ligase, cytoplasmic isoform X2	Juglans regia	XP_018817804.1
TRINITY_DN11284_c0_g2_i1_3	8,74E-158	442	XP_018849141.1	phosphomannomutase-like	Juglans regia	XP_019426420.1
TRINITY_DN18948_c1_g1_i1_2	6,64E-34	117	AES64100.2	multidrug resistance-associated protein, putative	Medicago truncatula	XP_003593849.2
TRINITY_DN11157_c0_g2_i3_3	0	912	XP_008386115.1	phospho-2-dehydro-3-deoxyheptonate aldolase 1, chloroplastic-like	Malus domestica	ALE18236.1
TRINITY_DN2503_c0_g2_i1_1	6,72E-100	307	XP_018818477.1	putative G3BP-like protein	Juglans regia	XP_008243840.1
TRINITY_DN22430_c0_g1_i1_3	6,96E-45	148	ONI20307.1	hypothetical protein PRUPE_2G008200	Prunus persica	ONI20304.1
TRINITY_DN9526_c1_g1_i1_2	1,22E-103	301	XP_018847314.1	probable NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 5, mitochondrial	Juglans regia	XP_018847315.1
TRINITY_DN11455_c0_g1_i6_2	0	678	XP_008230735.1	V-type proton ATPase subunit d2	Prunus mume	ONI19309.1
TRINITY_DN10158_c0_g1_i1_1	1,58E-65	202	OAY57255.1	hypothetical protein MANES_02G082400	Manihot esculenta	XP_012074113.1
TRINITY_DN3458_c0_g1_i1_4	1,97E-45	152	XP_018818800.1	probable 6-phosphogluconolactonase 4, chloroplastic	Juglans regia	OIV98040.1
TRINITY_DN11286_c0_g1_i3_2	0	745	KDP33810.1	hypothetical protein JCGZ_07381	Jatropha curcas	XP_012076890.1
TRINITY_DN5958_c0_g2_i1_1						
TRINITY_DN9297_c0_g3_i2_1	7,15E-138	408	XP_018849569.1	multiple organellar RNA editing factor 8, chloroplastic/mitochondrial	Juglans regia	XP_008226518.1
TRINITY_DN5161_c0_g2_i1_2	0	703	XP_018821368.1	chaperone protein ClpB3, chloroplastic-like	Juglans regia	XP_008230845.1
TRINITY_DN11263_c0_g1_i1_3	0	820	XP_018834951.1	eukaryotic peptide chain release factor subunit 1-3-like	Juglans regia	XP_018834952.1
TRINITY_DN2170_c0_g1_i1_5	1,25E-67	224	KHN04772.1	Clathrin heavy chain 1	Glycine soja	XP_015931279.1
TRINITY_DN8027_c0_g1_i1_1	0	613	XP_018811770.1	target of Myb protein 1-like	Juglans regia	XP_018845550.1
TRINITY_DN10305_c0_g1_i5_3	3,54E-133	391	XP_018814379.1	protein FATTY ACID EXPORT 3, chloroplastic	Juglans regia	XP_008244826.1
TRINITY_DN7619_c0_g2_i1_3	0	554	XP_018835354.1	uricase-2 isozyme 2	Juglans regia	CAB77205.1
TRINITY_DN10995_c0_g2_i4_3	4,71E-162	462	XP_018837241.1	CAAX prenyl protease 1 homolog	Juglans regia	OAY49116.1
TRINITY_DN10905_c0_g1_i1_4	4,35E-111	333	XP_018844115.1	DEAD-box ATP-dependent RNA helicase 38	Juglans regia	KDP25247.1
TRINITY_DN10393_c0_g1_i1_2	2,73E-126	365	XP_018808145.1	uncharacterized protein LOC108981433 isoform X2	Juglans regia	XP_018808144.1

TRINITY_DN13635_c0_g1_i3_1	0	600	XP_018846328.1	asparagine--tRNA ligase, cytoplasmic 1 isoform X1	Juglans regia	XP_016189315.1
TRINITY_DN9622_c1_g3_i1_2	1,01E-08	52,4	KDP45878.1	hypothetical protein JCGZ_15322	Jatropha curcas	OAY34547.1
TRINITY_DN10585_c0_g2_i1_2	1,03E-27	102	XP_018821552.1	uncharacterized protein LOC108991675 isoform X1	Juglans regia	XP_018821553.1
TRINITY_DN7164_c0_g1_i2_1	0	607	XP_018842034.1	serine/threonine-protein kinase SRK2A	Juglans regia	KHN11243.1
TRINITY_DN9538_c0_g1_i1_2	0	822	OAY33567.1	hypothetical protein MANES_13G107500	Manihot esculenta	KDP32128.1
TRINITY_DN9261_c0_g1_i2_1	0	1126	XP_018814376.1	vacuolar-sorting receptor 1-like	Juglans regia	XP_018814377.1
TRINITY_DN3879_c0_g1_i1_5	4,69E-46	153	XP_008223244.1	UDP-glucuronic acid decarboxylase 5 isoform X2	Prunus mume	ONI00302.1
TRINITY_DN74_c0_g1_i1_5	4,68E-121	348	XP_018805410.1	GTP-binding protein SAR1A-like	Juglans regia	XP_018805411.1
TRINITY_DN5513_c0_g1_i1_2	0	607	XP_018815515.1	spermidine synthase 1-like	Juglans regia	OAY34570.1
TRINITY_DN7914_c0_g2_i3_5	6,96E-39	139	XP_018814398.1	protein RETICULATA-RELATED 3, chloroplastic-like	Juglans regia	XP_018819342.1
TRINITY_DN1457_c0_g1_i1_1	3,45E-66	205	XP_018836017.1	THO complex subunit 4A-like	Juglans regia	XP_018823252.1
TRINITY_DN14031_c0_g1_i1_2	2,35E-89	287	XP_018815758.1	phosphoglucan, water dikinase, chloroplastic isoform X2	Juglans regia	XP_018815757.1
TRINITY_DN11004_c0_g1_i4_1	0	610	XP_018814877.1	sugar transport protein 14-like	Juglans regia	XP_018823615.1
TRINITY_DN239_c0_g1_i1_4	0	557	XP_018841018.1	NADH-cytochrome b5 reductase-like protein	Juglans regia	XP_009368820.1
TRINITY_DN6479_c0_g2_i1_3	5,68E-51	174	XP_018815210.1	UDP-glucuronic acid decarboxylase 2-like	Juglans regia	XP_009348817.1
TRINITY_DN9536_c0_g1_i1_3	0	845	XP_018846215.1	26S proteasome non-ATPase regulatory subunit 12 homolog A	Juglans regia	OAY33256.1
TRINITY_DN8870_c0_g1_i1_2						
TRINITY_DN13262_c0_g1_i1_3	0	596	XP_018857605.1	urease	Juglans regia	XP_018857607.1
TRINITY_DN11425_c1_g1_i2_1	1,32E-116	339	XP_018813434.1	ER membrane protein complex subunit 8/9 homolog	Juglans regia	XP_018825614.1
TRINITY_DN11659_c1_g1_i1_5	0	977	XP_018831593.1	aldehyde dehydrogenase family 2 member B4, mitochondrial isoform X1	Juglans regia	XP_018831594.1
TRINITY_DN15964_c0_g1_i1_3	8,00E-46	160	XP_018812043.1	large proline-rich protein BAG6-like isoform X1	Juglans regia	XP_018812044.1
TRINITY_DN5268_c0_g1_i1_2	0	595	XP_018844048.1	xylulose 5-phosphate/phosphate translocator, chloroplastic-like	Juglans regia	XP_009348960.2
TRINITY_DN20307_c0_g1_i1_4	4,13E-42	146	XP_018857981.1	phosphomethylethanolamine N-methyltransferase isoform X2	Juglans regia	XP_018857980.1
TRINITY_DN2136_c0_g2_i1_2	1,75E-171	484	XP_018856419.1	uncharacterized protein LOC109018719	Juglans regia	XP_018856421.1
TRINITY_DN10948_c0_g1_i6_4	0	798	KYP46302.1	putative 26S proteasome non-ATPase regulatory subunit 3	Cajanus cajan	XP_020236013.1
TRINITY_DN7010_c0_g2_i1_5	0	511	XP_018806331.1	60S ribosomal protein L3-2	Juglans regia	XP_018806332.1
TRINITY_DN18488_c0_g1_i1_2	2,64E-50	162	KDP23652.1	hypothetical protein JCGZ_23485	Jatropha curcas	XP_012089246.1
TRINITY_DN10697_c0_g1_i5_1	2,49E-135	388	XP_018827848.1	tropinone reductase-like 3	Juglans regia	KDP20683.1
TRINITY_DN8284_c0_g1_i1_2	0	596	XP_018843274.1	clavaminate synthase-like protein At3g21360	Juglans regia	XP_009353541.1

TRINITY_DN6841_c0_g1_i2_2	0	693	XP_018848755.1	indole-3-glycerol phosphate synthase, chloroplastic-like	Juglans regia	XP_012081510.1
TRINITY_DN8688_c0_g2_i1_5	1,73E-83	248	XP_018849401.1	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 6	Juglans regia	OAY36255.1
TRINITY_DN10771_c0_g1_i1_5	0	560	XP_018840009.1	ER membrane protein complex subunit 2	Juglans regia	ONI04815.1
TRINITY_DN8280_c0_g2_i1_2	6,35E-154	435	XP_018827791.1	probable carboxylesterase SOBER1-like	Juglans regia	OAY25864.1
TRINITY_DN2036_c0_g2_i1_1	1,08E-122	352	XP_018850818.1	uncharacterized protein LOC109013246	Juglans regia	ONI02161.1
TRINITY_DN8545_c0_g2_i1_1	0	948	OAY36897.1	hypothetical protein MANES_11G058200	Manihot esculenta	KDP37062.1
TRINITY_DN9929_c0_g2_i1_1	2,23E-154	438	XP_018835787.1	tubulin-folding cofactor B-like isoform X1	Juglans regia	OAY40244.1
TRINITY_DN16390_c0_g1_i1_1	1,03E-49	168	dbj|GAU21041.1	hypothetical protein TSUD_132530, partial	Trifolium subterraneum	GAU21041.1
TRINITY_DN9968_c0_g1_i3_3	0	900	XP_008221828.1	probable nucleoredoxin 1 isoform X1	Prunus mume	ONI28946.1
TRINITY_DN6363_c0_g1_i2_3	1,69E-140	407	XP_009371794.1	uridine 5'-monophosphate synthase-like	Pyrus x bretschneideri	XP_004514472.1
TRINITY_DN10584_c0_g1_i2_3	3,20E-45	152	XP_018825824.1	lipid transfer-like protein VAS isoform X2	Juglans regia	XP_018825823.1
TRINITY_DN10580_c0_g1_i1_3	0	567	XP_018843664.1	4-alpha-glucanotransferase DPE2 isoform X2	Juglans regia	XP_018843661.1
TRINITY_DN320_c0_g1_i1_6	6,77E-109	339	XP_018817247.1	calcium-transporting ATPase 1, endoplasmic reticulum-type-like	Juglans regia	XP_018818320.1
TRINITY_DN4506_c0_g1_i1_6	0	601	XP_018835024.1	peroxisomal (S)-2-hydroxy-acid oxidase GLO4-like isoform X3	Juglans regia	XP_009378364.1
TRINITY_DN11518_c0_g3_i1_3	1,32E-154	450	XP_018829229.1	glycine--tRNA ligase, mitochondrial 1-like	Juglans regia	XP_018841636.1
TRINITY_DN8574_c0_g2_i2_3	1,74E-134	389	XP_018834985.1	thioredoxin reductase 1-like	Juglans regia	KDP24919.1
TRINITY_DN7917_c0_g1_i3_2	4,40E-128	368	XP_018831192.1	polyadenylate-binding protein 1 isoform X1	Juglans regia	XP_018808102.1
TRINITY_DN11331_c0_g10_i5_1	2,95E-34	121	emb|CAC39160.1	putative LEA III protein isoform 1	Corylus avellana	CAC39110.1
TRINITY_DN305_c1_g1_i1_2	4,12E-89	277	XP_018811830.1	exocyst complex component EXO70B1	Juglans regia	KDP41809.1
TRINITY_DN10976_c0_g1_i2_2	0	684	XP_018825366.1	SNF1-related protein kinase regulatory subunit gamma-1	Juglans regia	XP_008239461.1
TRINITY_DN4215_c0_g2_i1_1						
TRINITY_DN11518_c0_g1_i3_1	0	820	XP_018829229.1	glycine--tRNA ligase, mitochondrial 1-like	Juglans regia	XP_018841636.1
TRINITY_DN8989_c0_g2_i2_3	4,13E-53	179	XP_018859947.1	molybdate-anion transporter-like	Juglans regia	XP_008346660.1
TRINITY_DN18517_c0_g1_i1_6	8,00E-54	181	OIW12575.1	hypothetical protein TanjilG_04739	Lupinus angustifolius	OIW12575.1
TRINITY_DN3918_c0_g1_i1_3	2,81E-174	489	XP_018846568.1	probable N-acetyl-gamma-glutamyl-phosphate reductase, chloroplastic	Juglans regia	XP_009344175.1
TRINITY_DN8387_c0_g1_i1_3	0	635	XP_018844424.1	acid beta-fructofuranosidase-like	Juglans regia	XP_018848119.1
TRINITY_DN8291_c1_g1_i2_1	4,96E-64	200	XP_018826247.1	PRA1 family protein B4-like	Juglans regia	XP_008370199.1
TRINITY_DN4038_c0_g2_i1_1	0	926	XP_018840585.1	bifunctional 3-dehydroquinate dehydratase/shikimate dehydrogenase, chloroplastic-like isoform X1	Juglans regia	XP_018840586.1
TRINITY_DN8117_c0_g1_i1_1	5,91E-116	339	XP_018503189.1	probable ADP-ribosylation factor GTPase-activating protein AGD15	Pyrus x bretschneideri	XP_008346894.1
TRINITY_DN11962_c0_g1_i1_4	0	617	KHN04292.1	Diacylglycerol kinase iota	Glycine soja	KOM43927.1
TRINITY_DN10349_c0_g1_i2_2	0	856	XP_018839623.1	eukaryotic translation initiation factor 3 subunit E	Juglans regia	XP_018808879.1

TRINITY_DN4294_c0_g2_i1_3	2,19E-158	462	XP_018842163.1	beta-xylosidase/alpha-L-arabinofuranosidase 2-like	Juglans regia	KDP30704.1
TRINITY_DN10817_c0_g2_i5_3	0	1864	XP_018826787.1	probable sucrose-phosphate synthase 1	Juglans regia	XP_018814107.1
TRINITY_DN15272_c0_g1_i1_6	5,07E-24	99	XP_018823987.1	peroxisomal and mitochondrial division factor 2-like	Juglans regia	XP_018823988.1
TRINITY_DN2207_c0_g1_i1_5	3,07E-51	162	AHV84766.1	histone 4, partial	Codiaeum variegatum	KRG95810.1
TRINITY_DN10776_c0_g2_i2_1	5,74E-165	479	XP_018811231.1	anthocyanidin 3-O-glucosyltransferase 7-like	Juglans regia	XP_020220316.1
TRINITY_DN9409_c0_g1_i1_2	5,92E-77	233	XP_018831781.1	mitochondrial fission 1 protein A-like	Juglans regia	XP_018831782.1
TRINITY_DN4376_c0_g1_i3_3	0	966	XP_018830969.1	sulfite reductase [ferredoxin], chloroplastic-like	Juglans regia	XP_018848022.1
TRINITY_DN13346_c0_g1_i1_4	6,13E-121	346	XP_018840507.1	peroxiredoxin-2F, mitochondrial-like	Juglans regia	XP_018846871.1
TRINITY_DN19634_c0_g1_i1_3	8,21E-81	238	OAY23706.1	hypothetical protein MANES_18G100700	Manihot esculenta	OAY23707.1
TRINITY_DN8342_c0_g2_i2_2	5,88E-144	410	XP_018830330.1	peroxisomal membrane protein 11C	Juglans regia	XP_018809573.1
TRINITY_DN8274_c0_g2_i2_2	1,04E-138	399	XP_018844545.1	omega-amidase, chloroplastic	Juglans regia	XP_004501439.1
TRINITY_DN11230_c0_g2_i11_6	1,97E-89	266	XP_018847894.1	SKP1-like protein 1B	Juglans regia	OAY50541.1
TRINITY_DN6850_c0_g1_i1_2	8,96E-109	323	XP_018842766.1	uncharacterized protein LOC109007529	Juglans regia	ONI25762.1
TRINITY_DN4513_c0_g1_i1_3	9,30E-149	439	XP_018819793.1	cell division cycle protein 48 homolog	Juglans regia	XP_018819791.1
TRINITY_DN11374_c0_g1_i7_3	5,13E-139	400	XP_018827477.1	uncharacterized protein LOC108996170 isoform X2	Juglans regia	XP_018827476.1
TRINITY_DN11011_c0_g1_i3_3	9,72E-157	440	XP_018816905.1	uncharacterized protein LOC108988199 isoform X1	Juglans regia	XP_018816906.1
TRINITY_DN8107_c0_g1_i1_3	8,53E-102	324	XP_018830702.1	LOW QUALITY PROTEIN: tripeptidyl-peptidase 2-like	Juglans regia	OAY48306.1
TRINITY_DN9485_c0_g1_i2_4	8,76E-146	421	XP_018845020.1	probable WRKY transcription factor 7	Juglans regia	ALU11214.1
TRINITY_DN7556_c0_g1_i1_1	1,03E-117	340	OIV93234.1	hypothetical protein TanjilG_27413	Lupinus angustifolius	XP_019423713.1
TRINITY_DN14011_c0_g1_i1_1	1,55E-37	137	OAY39576.1	hypothetical protein MANES_10G105800	Manihot esculenta	KDP40898.1
TRINITY_DN8957_c0_g1_i1_2	2,01E-95	295	OIW17270.1	hypothetical protein TanjilG_22382	Lupinus angustifolius	XP_018835420.1
TRINITY_DN11390_c1_g1_i2_2	7,37E-25	96,7	KDP27632.1	hypothetical protein JCGZ_19637	Jatropha curcas	KDP32809.1
TRINITY_DN17748_c0_g1_i1_5	4,86E-17	78,2	XP_018808617.1	receptor-like protein kinase HAIKU2	Juglans regia	XP_018808617.1
TRINITY_DN6342_c0_g1_i2_3	0	718	XP_018838516.1	long chain base biosynthesis protein 1	Juglans regia	XP_018838517.1
TRINITY_DN11664_c0_g1_i2_3	0	1387	XP_018842610.1	neutral ceramidase-like	Juglans regia	XP_018837606.1
TRINITY_DN9943_c0_g1_i2_6	0	1291	XP_018850454.1	ATP-dependent zinc metalloprotease FTSH 10, mitochondrial-like isoform X2	Juglans regia	XP_018850452.1
TRINITY_DN13988_c0_g1_i1_6	0	592	XP_018859288.1	E3 ubiquitin-protein ligase UPL2-like	Juglans regia	XP_018848705.1
TRINITY_DN19538_c0_g1_i1_4	4,25E-117	337	XP_018829348.1	uncharacterized protein At4g14100-like isoform X1	Juglans regia	XP_018841627.1
TRINITY_DN10766_c0_g1_i8_2	0	598	XP_018816803.1	transmembrane 9 superfamily member 3-like	Juglans regia	OAY29373.1
TRINITY_DN11385_c0_g1_i2_1	3,95E-06	50,1	XP_018828115.1	uncharacterized protein LOC108996593	Juglans regia	XP_018842687.1
TRINITY_DN10112_c0_g1_i1_1	7,45E-101	295	XP_016205498.1	signal peptidase complex subunit 3B	Arachis ipaensis	XP_015968566.1
TRINITY_DN7707_c0_g1_i1_4	7,58E-156	456	XP_018851852.1	5-methyltetrahydropteroyltriglutamate--homocysteine methyltransferase-like	Juglans regia	XP_007146040.1

TRINITY_DN15157_c0_g1_i1_5	3,11E-18	81,6	XP_018846638.1	uncharacterized protein LOC109010309	Juglans regia	XP_016183136.1
TRINITY_DN1898_c0_g1_i1_4	1,77E-68	206	ACU23663.1	unknown, partial	Glycine max	BAT88127.1
TRINITY_DN12752_c0_g1_i1_1	1,95E-42	145	XP_018858382.1	protein ROOT HAIR DEFECTIVE 3-like	Juglans regia	XP_018843379.1
TRINITY_DN10808_c0_g1_i2_1	0	862	XP_018845472.1	ATP-dependent 6-phosphofructokinase 3-like isoform X1	Juglans regia	XP_018837558.1
TRINITY_DN10486_c0_g1_i1_1	0	759	XP_018834513.1	clathrin interactor EPSIN 1	Juglans regia	XP_018834519.1
TRINITY_DN1527_c0_g1_i1_2	1,93E-128	374	XP_018841198.1	UDP-glucuronic acid decarboxylase 1	Juglans regia	ONI03264.1
TRINITY_DN19189_c0_g1_i1_3	1,10E-62	203	XP_018811788.1	dihydrolipoyllysine-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex 2, mitochondrial-like	Juglans regia	XP_008226865.1
TRINITY_DN8363_c0_g1_i1_2	0	553	XP_018839142.1	NADP-dependent malic enzyme-like	Juglans regia	XP_018843270.1
TRINITY_DN11604_c0_g1_i7_2	3,45E-147	418	XP_018846260.1	putative methyltransferase DDB_G0268948	Juglans regia	XP_018807016.1
TRINITY_DN4772_c0_g1_i1_2	0	609	XP_018853594.1	dihydrolipoyllysine-residue acetyltransferase component 1 of pyruvate dehydrogenase complex, mitochondrial	Juglans regia	XP_008233240.1
TRINITY_DN8086_c0_g1_i1_2	4,79E-85	252	XP_018842451.1	lactoylglutathione lyase-like	Juglans regia	XP_008390907.1
TRINITY_DN3945_c0_g1_i1_3	3,22E-73	223	XP_018822042.1	peptidyl-prolyl cis-trans isomerase Pin1	Juglans regia	KDP46719.1
TRINITY_DN9766_c0_g2_i1_3	0	531	XP_018829443.1	gamma carbonic anhydrase 1, mitochondrial-like isoform X1	Juglans regia	XP_018829444.1
TRINITY_DN8049_c0_g1_i1_2	0	709	XP_018848330.1	dnaJ protein ERDJ2A	Juglans regia	XP_018848331.1
TRINITY_DN11285_c0_g1_i5_6	7,27E-77	231	XP_018849016.1	glutathione S-transferase U8-like	Juglans regia	XP_018849018.1
TRINITY_DN9993_c0_g1_i4_4	2,44E-49	171	XP_018839760.1	subtilisin-like protease SBT4.15	Juglans regia	GAU16058.1
TRINITY_DN18979_c0_g1_i1_4	8,79E-32	120	ONH97426.1	hypothetical protein PRUPE_7G189500	Prunus persica	ONH97424.1
TRINITY_DN9241_c0_g1_i1_2	0	764	XP_018847866.1	serine/threonine-protein phosphatase 6 regulatory subunit 3-like isoform X1	Juglans regia	XP_018828049.1
TRINITY_DN17053_c0_g1_i1_3	4,57E-37	123	ONI23348.1	hypothetical protein PRUPE_2G183600	Prunus persica	OAY49054.1
TRINITY_DN8570_c0_g1_i2_1	3,72E-157	443	XP_018841038.1	acyl-protein thioesterase 2-like isoform X1	Juglans regia	XP_020207225.1
TRINITY_DN11109_c0_g2_i3_1	0	1198	OAY32959.1	hypothetical protein MANES_13G058800	Manihot esculenta	OAY34927.1
TRINITY_DN23174_c0_g1_i1_1	3,04E-24	99,4	XP_016183778.1	delta-1-pyrroline-5-carboxylate synthase isoform X2	Arachis ipaensis	XP_015950169.1
TRINITY_DN11127_c0_g1_i1_3	0	702	XP_018848695.1	protein disulfide-isomerase 5-2-like	Juglans regia	XP_018821144.1
TRINITY_DN3682_c0_g1_i1_3	1,10E-99	294	XP_017442803.1	6,7-dimethyl-8-ribityllumazine synthase, chloroplastic isoform X1	Vigna angularis	XP_017442804.1
TRINITY_DN11049_c0_g1_i2_6	0	959	XP_018833063.1	dihydropyrimidinase-like	Juglans regia	XP_018842508.1
TRINITY_DN4610_c0_g1_i1_3	3,57E-78	236	XP_018818244.1	uncharacterized protein LOC108989175	Juglans regia	KDP45236.1
TRINITY_DN3669_c0_g2_i1_1	3,14E-47	152	AFK48077.1	unknown	Lotus japonicus	XP_018830936.1
TRINITY_DN374_c0_g2_i1_2	2,69E-98	300	XP_018847349.1	plastidial pyruvate kinase 2	Juglans regia	OAY48391.1
TRINITY_DN1993_c0_g1_i1_1	3,59E-19	84,7	ONI04862.1	hypothetical protein PRUPE_6G344400	Prunus persica	XP_020421508.1
TRINITY_DN11635_c2_g1_i3_2	0	585	XP_018824429.1	probable aldo-keto reductase 2	Juglans regia	XP_018858774.1
TRINITY_DN5082_c0_g1_i1_6	1,72E-82	246	XP_018824069.1	thioredoxin domain-containing protein PLP3B-like	Juglans regia	XP_018824070.1
TRINITY_DN8123_c0_g1_i1_1	1,26E-111	322	XP_018826216.1	uncharacterized protein At5g01610-like	Juglans regia	XP_018809179.1

TRINITY_DN10102_c0_g1_i2_4	2,29E-159	456	XP_018824108.1	hepatocyte growth factor-regulated tyrosine kinase substrate isoform X3	Juglans regia	XP_018824107.1
TRINITY_DN15522_c0_g1_i1_1	9,29E-27	105	ONI13583.1	hypothetical protein PRUPE_4G231900	Prunus persica	ONI13583.1
TRINITY_DN5853_c0_g1_i2_1	0	791	XP_018824342.1	uncharacterized protein LOC108993777	Juglans regia	XP_018824343.1
TRINITY_DN4080_c1_g1_i1_3	9,37E-172	484	XP_018838198.1	uncharacterized protein LOC109004190	Juglans regia	XP_018829345.1
TRINITY_DN2512_c0_g1_i1_1	2,55E-117	346	XP_018824803.1	fumarate hydratase 1, mitochondrial	Juglans regia	ONH93997.1
TRINITY_DN8982_c0_g1_i3_1	0	631	XP_018815404.1	ribose-phosphate pyrophosphokinase 4-like isoform X2	Juglans regia	XP_018815403.1
TRINITY_DN5937_c0_g1_i1_6	0	1190	XP_018842317.1	nodal modulator 1	Juglans regia	XP_008227880.1
TRINITY_DN10930_c0_g2_i2_1	7,26E-145	409	XP_009379738.1	peroxygenase-like	Pyrus x bretschneideri	XP_008218348.1
TRINITY_DN13030_c0_g1_i1_6	6,02E-58	197	XP_018837506.1	glucosidase 2 subunit beta	Juglans regia	XP_008221020.1
TRINITY_DN5505_c0_g1_i1_3	0	863	XP_018848045.1	acyl-CoA-binding domain-containing protein 4	Juglans regia	XP_018848046.1
TRINITY_DN11234_c0_g1_i2_1	6,77E-76	228	KDP40355.1	hypothetical protein JCGZ_02353	Jatropha curcas	XP_012069863.1
TRINITY_DN3811_c0_g2_i1_6	4,03E-98	286	XP_018821966.1	frataxin, mitochondrial-like isoform X2	Juglans regia	XP_018821965.1
TRINITY_DN12438_c0_g1_i2_2	2,36E-119	340	KYP71247.1	Signal peptidase complex subunit 3B	Cajanus cajan	XP_020212447.1
TRINITY_DN21231_c0_g1_i1_4	2,31E-32	124	XP_018843078.1	calponin homology domain-containing protein DDB_G0272472	Juglans regia	XP_018843079.1
TRINITY_DN22880_c0_g1_i1_1	2,51E-40	140	XP_018851581.1	oleoyl-acyl carrier protein thioesterase 1, chloroplastic-like	Juglans regia	XP_018830356.1
TRINITY_DN209_c0_g1_i1_6	7,68E-145	411	XP_018836108.1	uncharacterized protein LOC109002706	Juglans regia	XP_008232957.1
TRINITY_DN11070_c0_g1_i6_2	0	1030	XP_018809133.1	cleft lip and palate transmembrane protein 1 homolog	Juglans regia	XP_009379523.1
TRINITY_DN6751_c0_g1_i1_5	9,02E-06	46,2	XP_018819823.1	MFP1 attachment factor 1-like	Juglans regia	XP_018824955.1
TRINITY_DN9669_c0_g1_i1_5						
TRINITY_DN6123_c0_g1_i1_4	0	1059	XP_018829137.1	calcium-dependent protein kinase 26	Juglans regia	XP_018829138.1
TRINITY_DN9646_c0_g1_i1_2	0	1058	XP_018842577.1	ER membrane protein complex subunit 1-like	Juglans regia	XP_018845533.1
TRINITY_DN3063_c0_g2_i1_5	0	668	XP_018857224.1	cycloartenol-C-24-methyltransferase	Juglans regia	XP_008231464.1
TRINITY_DN8427_c0_g1_i1_3	1,30E-114	332	XP_008233574.1	aquaporin TIP1-3	Prunus mume	XP_008343557.1
TRINITY_DN10246_c1_g1_i1_3	5,01E-92	273	XP_018842585.1	ferredoxin, root R-B2-like	Juglans regia	XP_007142856.1
TRINITY_DN9816_c0_g1_i2_1	1,21E-143	405	XP_018844705.1	proteasome subunit beta type-3-A	Juglans regia	KDP32836.1
TRINITY_DN6842_c0_g1_i1_5	8,24E-30	111	XP_018839113.1	aldo-keto reductase family 4 member C9-like	Juglans regia	XP_018839114.1
TRINITY_DN4755_c0_g2_i1_6	1,75E-38	131	XP_018839306.1	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 13-A	Juglans regia	OAY55450.1
TRINITY_DN8066_c0_g1_i1_3	0	606	XP_018836442.1	tubulin beta chain-like	Juglans regia	XP_018854022.1
TRINITY_DN7303_c0_g1_i1_3	2,16E-18	81,6	XP_007139705.1	hypothetical protein PHAVU_008G052400g	Phaseolus vulgaris	ESW11699.1
TRINITY_DN9503_c0_g1_i1_2	0	585	ONH96801.1	hypothetical protein PRUPE_7G153100	Prunus persica	XP_007204613.1
TRINITY_DN4985_c0_g1_i1_3	2,52E-118	340	XP_018844456.1	peptide methionine sulfoxide reductase B5-like	Juglans regia	XP_018855277.1
TRINITY_DN11329_c0_g1_i2_1	8,95E-180	508	KDP24432.1	hypothetical protein JCGZ_24996	Jatropha curcas	XP_012087835.1
TRINITY_DN4045_c0_g1_i1_1	6,70E-130	372	OAY39836.1	hypothetical protein MANES_10G126300	Manihot esculenta	XP_018845301.1

TRINITY_DN11005_c0_g1_i2_2	0	850	XP_018819162.1	eukaryotic translation initiation factor 4G-like isoform X1	Juglans regia	XP_018819170.1
TRINITY_DN6033_c0_g1_i1_3	0	556	XP_018816770.1	pyridoxal kinase-like isoform X1	Juglans regia	OAY45362.1
TRINITY_DN10177_c0_g1_i1_1	1,84E-61	192	XP_018824894.1	uncharacterized protein LOC108994217	Juglans regia	OAY47489.1
TRINITY_DN2451_c0_g1_i1_2	0	734	XP_018858250.1	uncharacterized protein LOC109020252	Juglans regia	XP_020421355.1
TRINITY_DN2230_c0_g2_i1_1	0	682	XP_018835559.1	ATP phosphoribosyltransferase 2, chloroplastic isoform X1	Juglans regia	OAY44990.1
TRINITY_DN6871_c0_g1_i1_3	2,54E-81	241	XP_018846174.1	uncharacterized protein LOC109009954	Juglans regia	XP_018846183.1
TRINITY_DN12604_c0_g1_i1_3	0	749	XP_018843664.1	4-alpha-glucanotransferase DPE2 isoform X2	Juglans regia	XP_018843664.1
TRINITY_DN11543_c0_g1_i1_3	0	807	XP_018809975.1	protein LEO1 homolog isoform X1	Juglans regia	XP_018809984.1
TRINITY_DN8511_c0_g2_i1_6	0	615	XP_008227769.1	formate--tetrahydrofolate ligase	Prunus mume	ONH99130.1
TRINITY_DN7492_c0_g1_i1_6	1,21E-53	169	XP_018825951.1	40S ribosomal protein S21-2-like	Juglans regia	XP_018825952.1
TRINITY_DN10983_c0_g1_i3_5	0	548	XP_018837992.1	uncharacterized protein LOC109004054	Juglans regia	XP_018837993.1
TRINITY_DN20990_c0_g1_i1_1						
TRINITY_DN7067_c0_g1_i1_3	0	543	XP_018838640.1	short-chain dehydrogenase TIC 32, chloroplastic-like	Juglans regia	ONI25356.1
TRINITY_DN10272_c0_g1_i2_4	2,47E-27	100	XP_018824900.1	mitochondrial import receptor subunit TOM5 homolog	Juglans regia	OAY47495.1
TRINITY_DN7028_c0_g1_i1_3	0	1189	XP_018852049.1	uncharacterized protein LOC109014152 isoform X2	Juglans regia	XP_018852048.1
TRINITY_DN9822_c0_g1_i2_3	1,70E-135	386	XP_018835931.1	hypersensitive-induced response protein 2-like	Juglans regia	XP_018835932.1
TRINITY_DN10973_c0_g1_i2_3	3,36E-176	509	XP_018843210.1	mitochondrial Rho GTPase 1-like	Juglans regia	XP_018841787.1
TRINITY_DN8002_c0_g1_i1_2	2,85E-154	440	XP_018843798.1	OTU domain-containing protein 6B	Juglans regia	XP_018843799.1
TRINITY_DN10262_c0_g2_i1_1	0	548	XP_008235142.1	ATP-dependent Clp protease proteolytic subunit 5, chloroplastic	Prunus mume	ONH94009.1
TRINITY_DN5679_c0_g1_i1_2	0	888	XP_018833940.1	probable manganese-transporting ATPase PDR2	Juglans regia	XP_018833946.1
TRINITY_DN728_c0_g1_i2_3	3,57E-56	194	XP_018820348.1	myosin-11 isoform X2	Juglans regia	XP_018820347.1
TRINITY_DN11853_c0_g1_i1_1	9,41E-117	340	XP_018820273.1	bifunctional dTDP-4-dehydrorhamnose 3,5-epimerase/dTDP-4-dehydrorhamnose reductase-like	Juglans regia	XP_018854480.1
TRINITY_DN11868_c0_g1_i1_5	0	635	XP_008224708.1	carbamoyl-phosphate synthase large chain, chloroplastic	Prunus mume	XP_008224708.1
TRINITY_DN10119_c0_g1_i1_1	0	834	XP_018858974.1	clathrin interactor EPSIN 2 isoform X2	Juglans regia	XP_018858973.1
TRINITY_DN2584_c0_g2_i1_3	1,59E-61	189	XP_018843076.1	calvin cycle protein CP12-3, chloroplastic	Juglans regia	OAY50363.1
TRINITY_DN9619_c0_g2_i2_2	0	808	XP_009349374.1	glycylpeptide N-tetradecanoyltransferase 1 isoform X1	Pyrus x bretschneideri	XP_008337728.1
TRINITY_DN10243_c0_g1_i1_3	0	646	XP_018846976.1	LOW QUALITY PROTEIN: apyrase 1-like	Juglans regia	XP_008240451.1
TRINITY_DN17816_c0_g1_i1_6	3,41E-75	236	XP_018829704.1	pentatricopeptide repeat-containing protein At1g05750, chloroplastic	Juglans regia	KHN17971.1
TRINITY_DN23502_c0_g1_i1_3	1,35E-21	90,1	XP_008391767.1	GDSL esterase/lipase At5g03610-like	Malus domestica	OAY42884.1
TRINITY_DN4242_c0_g1_i3_4	2,61E-54	175	XP_018836111.1	hevamine-A-like isoform X1	Juglans regia	XP_018836112.1

TRINITY_DN11128_c0_g1_i1_3	0	558	XP_018844572.1	uncharacterized protein LOC109008795	Juglans regia	XP_012090472.1
TRINITY_DN6438_c0_g3_i1_3	1,23E-143	409	KDP39714.1	hypothetical protein JCGZ_02734	Jatropha curcas	XP_012070471.1
TRINITY_DN8591_c0_g1_i2_5	0	619	XP_018818410.1	probable choline kinase 2	Juglans regia	ONI21005.1
TRINITY_DN13303_c0_g1_i1_6	8,18E-77	242	XP_018840764.1	chaperonin CPN60-2, mitochondrial-like	Juglans regia	KDP33373.1
TRINITY_DN11162_c0_g1_i3_4	2,43E-144	408	XP_008219517.1	vesicle-associated membrane protein 711	Prunus mume	ONI34446.1
TRINITY_DN17711_c0_g1_i1_5	2,37E-86	275	XP_018810540.1	probable glucan 1,3-alpha-glucosidase	Juglans regia	XP_018810541.1
TRINITY_DN7181_c0_g1_i1_6	2,66E-92	276	XP_018808381.1	40S ribosomal protein S3-2	Juglans regia	XP_018827015.1
TRINITY_DN8712_c0_g1_i1_2	0	536	XP_008364783.1	LOW QUALITY PROTEIN: diaminopimelate epimerase, chloroplastic-like	Malus domestica	XP_008375702.1
TRINITY_DN11271_c1_g2_i1_1	3,19E-103	297	AAZ32851.1	pentameric polyubiquitin, partial	Medicago sativa	AAZ32851.1
TRINITY_DN10739_c0_g1_i1_3	0	1118	KDP23486.1	hypothetical protein JCGZ_23319	Jatropha curcas	XP_012089020.1
TRINITY_DN11930_c0_g1_i1_6	2,41E-25	102	XP_018842577.1	ER membrane protein complex subunit 1-like	Juglans regia	XP_018845532.1
TRINITY_DN19914_c0_g1_i1_2	0	553	XP_018842344.1	adenylosuccinate synthetase 2, chloroplastic	Juglans regia	OAY40523.1
TRINITY_DN9037_c0_g1_i2_3	0	872	XP_018810986.1	protein disulfide-isomerase 5-3-like	Juglans regia	XP_009378812.1
TRINITY_DN9789_c0_g1_i1_2	0	827	XP_018842813.1	molybdate-anion transporter	Juglans regia	XP_018818792.1
TRINITY_DN11534_c1_g1_i2_2	0	803	XP_018850329.1	uncharacterized protein LOC109012887 isoform X3	Juglans regia	XP_018850309.1
TRINITY_DN5090_c0_g1_i1_1	1,49E-63	206	XP_018824593.1	glucan endo-1,3-beta-glucosidase 12-like	Juglans regia	XP_018812075.1
TRINITY_DN11564_c1_g1_i1_3	0	633	XP_018824341.1	UPF0160 protein	Juglans regia	XP_018859956.1
TRINITY_DN13530_c0_g1_i1_2	4,13E-58	196	dbj|GAU35356.1	hypothetical protein TSUD_337480	Trifolium subterraneum	XP_018817247.1
TRINITY_DN11513_c0_g1_i18_2	4,47E-65	204	XP_018807308.1	probable glutathione S-transferase	Juglans regia	XP_018805444.1
TRINITY_DN9031_c0_g2_i2_1	1,16E-158	454	XP_018827261.1	TOM1-like protein 2	Juglans regia	XP_008235674.1
TRINITY_DN9718_c0_g1_i1_1	1,15E-151	434	XP_018808845.1	GEM-like protein 1	Juglans regia	KOM41786.1
TRINITY_DN7063_c0_g1_i1_2	0	993	XP_018859772.1	uncharacterized protein LOC109021570	Juglans regia	ONH99202.1
TRINITY_DN22484_c0_g1_i1_1	4,68E-15	72,4	OAY62514.1	hypothetical protein MANES_01G273000	Manihot esculenta	XP_018819170.1
TRINITY_DN10475_c1_g1_i1_4	1,58E-125	360	XP_018834389.1	ras-related protein RABA4c	Juglans regia	ONI20318.1
TRINITY_DN11134_c0_g1_i2_1	0	1008	XP_018818858.1	carbamoyl-phosphate synthase large chain, chloroplastic	Juglans regia	XP_018818858.1
TRINITY_DN7509_c0_g1_i1_1	6,46E-134	389	XP_008350414.1	protein GPR107-like	Malus domestica	XP_008366712.1
TRINITY_DN15062_c0_g1_i1_1	4,45E-92	282	XP_018835576.1	asparagine synthetase [glutamine-hydrolyzing]	Juglans regia	XP_018819154.1
TRINITY_DN22190_c0_g1_i1_5	7,65E-30	109	XP_018819148.1	glutathione S-transferase U17-like	Juglans regia	XP_018819149.1
TRINITY_DN8143_c0_g1_i3_2	0	1477	XP_018815732.1	probable acyl-CoA dehydrogenase IBR3	Juglans regia	OAY56055.1
TRINITY_DN8488_c0_g1_i1_3	0	947	XP_018849269.1	phosphoacetylglucosamine mutase-like	Juglans regia	XP_018838256.1
TRINITY_DN7081_c0_g2_i1_1	9,77E-63	206	XP_018816821.1	2-hydroxyacyl-CoA lyase	Juglans regia	XP_008358155.1
TRINITY_DN5728_c0_g1_i1_3	0	822	XP_018833569.1	brefeldin A-inhibited guanine nucleotide-exchange protein 5 isoform X1	Juglans regia	XP_018833570.1
TRINITY_DN10017_c0_g1_i1_5	0	514	ONI35507.1	hypothetical protein PRUPE_1G540200	Prunus persica	XP_007222567.1
TRINITY_DN10253_c0_g1_i2_6	0	830	XP_018817131.1	uncharacterized protein LOC108988346 isoform X2	Juglans regia	XP_018817130.1
TRINITY_DN17872_c0_g1_i1_2	2,41E-69	216	KRH74616.1	hypothetical protein GLYMA_01G031500	Glycine max	XP_009363532.1

TRINITY_DN20473_c0_g1_i1_1	4,17E-49	155	XP_018809915.1	uncharacterized protein LOC108982896	Juglans regia	XP_018809916.1
TRINITY_DN5188_c0_g1_i2_1	0	867	OAY45096.1	hypothetical protein MANES_07G030800	Manihot esculenta	OAY45097.1
TRINITY_DN3281_c0_g1_i1_6	2,48E-71	216	XP_018822137.1	uncharacterized protein LOC108992124	Juglans regia	XP_007199293.2
TRINITY_DN12704_c0_g1_i1_1	5,68E-146	420	XP_008345924.1	probable alpha,alpha-trehalose-phosphate synthase [UDP-forming] 7	Malus domestica	XP_018812523.1
TRINITY_DN11185_c0_g1_i1_1	0	686	XP_018840464.1	vacuole membrane protein KMS1-like	Juglans regia	XP_018846833.1
TRINITY_DN10615_c1_g1_i1_1	4,93E-138	398	KOM42046.1	hypothetical protein LR48_Vigan04g224400, partial	Vigna angularis	KRH61685.1
TRINITY_DN63_c0_g1_i1_3	3,45E-90	269	XP_018851775.1	ribonuclease P protein subunit p25-like protein	Juglans regia	XP_014504552.1
TRINITY_DN6258_c0_g1_i2_6	4,62E-80	241	XP_018848279.1	uncharacterized protein LOC109011491	Juglans regia	XP_018860648.1
TRINITY_DN6195_c0_g2_i1_2	8,21E-67	207	XP_018809743.1	uncharacterized protein At2g34160-like	Juglans regia	KOM29975.1
TRINITY_DN6481_c0_g1_i1_1	7,05E-104	301	XP_018846675.1	peptidyl-prolyl cis-trans isomerase CYP18-1-like	Juglans regia	XP_018806960.1
TRINITY_DN14793_c0_g1_i1_1	0	688	XP_018822921.1	methionine--tRNA ligase, cytoplasmic	Juglans regia	KDP39347.1
TRINITY_DN4384_c0_g1_i1_6	5,79E-64	196	XP_018836953.1	early nodulin-like protein 1	Juglans regia	XP_018832258.1
TRINITY_DN9364_c0_g1_i1_1	0	592	XP_018821210.1	dnaJ protein ERDJ3B	Juglans regia	XP_018843883.1
TRINITY_DN9162_c0_g3_i1_4	2,20E-95	280	XP_018826083.1	peptide methionine sulfoxide reductase B5-like isoform X1	Juglans regia	XP_018826084.1
TRINITY_DN7289_c0_g1_i1_3	0	671	XP_018830095.1	glycerol-3-phosphate acyltransferase, chloroplastic isoform X2	Juglans regia	XP_018830093.1
TRINITY_DN3061_c0_g2_i1_3	0	548	XP_009379345.1	GDSL esterase/lipase EXL3-like	Pyrus x bretschneideri	XP_008242093.1
TRINITY_DN10426_c0_g1_i1_5	0	1179	XP_008342522.1	isoamylase 3, chloroplastic-like	Malus domestica	ONI35223.1
TRINITY_DN10788_c0_g1_i1_1	3,40E-172	486	OAY25879.1	hypothetical protein MANES_16G002900	Manihot esculenta	KYP62724.1
TRINITY_DN11653_c0_g1_i11_5	0	778	XP_008385127.1	actin	Malus domestica	XP_017191420.1
TRINITY_DN8256_c0_g1_i1_1	1,65E-172	485	XP_018816558.1	ALA-interacting subunit 1-like	Juglans regia	XP_018846350.1
TRINITY_DN19311_c0_g1_i1_5	4,26E-166	487	XP_018811234.1	dynamin-related protein 3A	Juglans regia	XP_018826873.1
TRINITY_DN11315_c0_g1_i1_2	9,74E-153	432	XP_018811802.1	eukaryotic translation initiation factor 3 subunit K-like	Juglans regia	KDP33976.1
TRINITY_DN9466_c0_g1_i1_2	3,85E-84	250	XP_008234339.1	uncharacterized protein LOC103333300	Prunus mume	ONI25146.1
TRINITY_DN10194_c0_g1_i1_3	0	704	XP_018811868.1	aspartic proteinase-like isoform X2	Juglans regia	XP_018811875.1
TRINITY_DN6989_c0_g1_i1_2	4,96E-176	507	XP_018848499.1	threonine--tRNA ligase, mitochondrial 1-like	Juglans regia	OAY49849.1
TRINITY_DN14960_c0_g1_i1_3	0	577	XP_018842395.1	isocitrate dehydrogenase [NADP]	Juglans regia	ONI19628.1
TRINITY_DN6781_c0_g2_i1_1	0	1099	XP_018841565.1	monosaccharide-sensing protein 2-like	Juglans regia	XP_018841567.1
TRINITY_DN4623_c0_g2_i2_1	0	704	XP_018836920.1	glucan endo-1,3-beta-glucosidase 7	Juglans regia	XP_018807062.1
TRINITY_DN10600_c0_g1_i1_5	0	952	XP_018820267.1	ubiquitin carboxyl-terminal hydrolase MINDY-2-like	Juglans regia	XP_018820490.1
TRINITY_DN1407_c0_g1_i2_4	2,95E-68	229	XP_018835615.1	clathrin heavy chain 2	Juglans regia	XP_018846323.1
TRINITY_DN2265_c0_g1_i1_5	9,39E-81	258	XP_018831429.1	HIPL1 protein-like	Juglans regia	XP_018831975.1
TRINITY_DN8192_c0_g2_i2_5	3,63E-121	350	AES60048.1	serine/threonine protein phosphatase 2A	Medicago truncatula	XP_003589797.1
TRINITY_DN6164_c0_g2_i1_1	1,19E-89	278	XP_018837506.1	glucosidase 2 subunit beta	Juglans regia	ONH98947.1
TRINITY_DN715_c0_g1_i1_6	1,60E-36	122	XP_018838938.1	cytochrome c oxidase assembly factor 5	Juglans regia	XP_018838939.1

TRINITY_DN18948_c0_g1_i1_2	7,62E-44	156	XP_018830041.1	ABC transporter B family member 9 isoform X1	Juglans regia	XP_018830041.1
TRINITY_DN20147_c0_g1_i1_4	3,98E-51	172	XP_009350530.1	diacylglycerol kinase 5-like	Pyrus x bretschneideri	XP_018501644.1
TRINITY_DN8171_c0_g1_i1_2	0	553	XP_018852464.1	oxalate--CoA ligase-like	Juglans regia	OAY59825.1
TRINITY_DN6538_c0_g1_i1_4	2,78E-69	228	XP_018829853.1	5-methyltetrahydropteroyltriglutamate--homocysteine methyltransferase	Juglans regia	XP_018837618.1
TRINITY_DN6949_c0_g1_i2_3	0	605	XP_018860003.1	probable fructokinase-6, chloroplastic	Juglans regia	XP_008229214.1
TRINITY_DN15219_c0_g1_i1_6	1,37E-102	315	XP_020962497.1	heat shock protein 90-6, mitochondrial isoform X3	Arachis ipaensis	XP_020962496.1
TRINITY_DN11665_c0_g1_i3_2	0	1537	KDP33445.1	hypothetical protein JCGZ_07016	Jatropha curcas	XP_012076337.1
TRINITY_DN17687_c0_g1_i1_2	2,58E-42	142	XP_018846809.1	haloacid dehalogenase-like hydrolase domain-containing protein At2g33255	Juglans regia	OAY28174.1
TRINITY_DN9097_c0_g1_i1_2	0	527	XP_018811469.1	mitochondrial carnitine/acylcarnitine carrier-like protein	Juglans regia	XP_018811470.1
TRINITY_DN17840_c0_g1_i1_2	2,09E-80	251	XP_018818346.1	dynamin-related protein 5A	Juglans regia	XP_018824324.1
TRINITY_DN2942_c0_g1_i1_5	2,59E-86	254	XP_018857291.1	GDP-mannose 4,6 dehydratase 1, partial	Juglans regia	XP_018805499.1
TRINITY_DN4861_c0_g3_i1_4	1,39E-67	209	XP_014496997.1	60S ribosomal protein L23A	Vigna radiata var. radiata	XP_020224350.1
TRINITY_DN1788_c0_g2_i1_3	8,86E-160	452	ONI29783.1	hypothetical protein PRUPE_1G214500	Prunus persica	XP_007222511.1
TRINITY_DN6718_c0_g1_i1_5	1,84E-46	156	KRH51652.1	hypothetical protein GLYMA_06G020700	Glycine max	ACS93764.1
TRINITY_DN2144_c0_g2_i1_3	8,46E-134	387	XP_018820983.1	GLABRA2 expression modulator-like	Juglans regia	XP_018830258.1
TRINITY_DN4927_c0_g1_i1_6	2,10E-62	206	XP_018827664.1	probable glucan 1,3-alpha-glucosidase isoform X2	Juglans regia	GAU19561.1
TRINITY_DN11271_c0_g1_i1_6	3,08E-42	139	KDP42861.1	hypothetical protein JCGZ_23803	Jatropha curcas	CAA31627.1
TRINITY_DN8924_c0_g1_i1_1	8,16E-44	159	XP_008337280.1	methyl-CpG-binding domain-containing protein 11-like	Malus domestica	XP_008337277.1
TRINITY_DN779_c0_g1_i1_1	1,48E-162	457	XP_018828138.1	uncharacterized protein LOC108996608	Juglans regia	OAY44531.1
TRINITY_DN938_c0_g1_i1_5	3,41E-65	204	XP_018843123.1	eukaryotic translation initiation factor 3 subunit J-like	Juglans regia	XP_008238161.1
TRINITY_DN9792_c1_g2_i1_6	3,88E-162	462	XP_018825543.1	aldehyde dehydrogenase family 3 member H1	Juglans regia	XP_008219617.2
TRINITY_DN9457_c0_g1_i2_1	0	694	XP_018809732.1	SEC1 family transport protein SLY1-like	Juglans regia	XP_018841532.1
TRINITY_DN4143_c0_g1_i1_1	0	633	KOM53141.1	hypothetical protein LR48_Vigan09g180000	Vigna angularis	BAT87699.1
TRINITY_DN13762_c0_g1_i1_3	7,78E-41	139	XP_018834440.1	40S ribosomal protein S2-4-like	Juglans regia	XP_018837209.1
TRINITY_DN8478_c1_g1_i1_2	7,80E-71	216	XP_018836308.1	uncharacterized protein LOC109002851	Juglans regia	XP_008224696.1
TRINITY_DN7608_c0_g1_i1_4	1,66E-121	356	KHN04999.1	FAS-associated factor 2-B	Glycine soja	XP_018844497.1
TRINITY_DN4512_c0_g1_i1_4	4,99E-57	187	XP_018821126.1	mannan endo-1,4-beta-mannosidase 7-like	Juglans regia	XP_008220834.1
TRINITY_DN9675_c0_g1_i1_1	0	558	XP_018830828.1	probable fructokinase-7	Juglans regia	XP_008234319.1
TRINITY_DN7474_c0_g2_i1_2	1,44E-114	333	XP_018825107.1	vesicle-associated protein 2-1-like isoform X3	Juglans regia	XP_018825108.1
TRINITY_DN10982_c0_g1_i1_1	0	613	XP_009354832.1	peroxisomal (S)-2-hydroxy-acid oxidase-like isoform X1	Pyrus x bretschneideri	ONI12161.1

TRINITY_DN1335_c0_g1_i1_2	0	614	XP_018819539.1	uncharacterized protein LOC108990124 isoform X2	Juglans regia	XP_018819538.1
TRINITY_DN10530_c0_g1_i4_3	0	928	XP_018847824.1	phenylalanine--tRNA ligase alpha subunit, cytoplasmic	Juglans regia	XP_008236892.1
TRINITY_DN8417_c0_g1_i2_2	1,97E-126	361	XP_018836212.1	26S proteasome non-ATPase regulatory subunit 10	Juglans regia	KDP41272.1
TRINITY_DN11265_c0_g1_i1_3	0	550	XP_018850162.1	galacturonosyltransferase 8-like	Juglans regia	OAY32840.1
TRINITY_DN2984_c0_g2_i1_3	0	538	XP_018824151.1	CBS domain-containing protein CBSX6	Juglans regia	KYP47638.1
TRINITY_DN1687_c0_g1_i1_2	0	622	KRH47017.1	hypothetical protein GLYMA_07G004100	Glycine max	XP_003529523.1
TRINITY_DN8065_c0_g1_i1_1	0	587	XP_018821177.1	AP-4 complex subunit mu-like	Juglans regia	XP_018851429.1
TRINITY_DN11452_c0_g2_i2_2	0	620	XP_018837874.1	1-aminocyclopropane-1-carboxylate oxidase homolog 4-like	Juglans regia	XP_018807675.1
TRINITY_DN6644_c0_g1_i1_2	2,70E-39	139	XP_018822954.1	uncharacterized protein LOC108992770	Juglans regia	OAY21302.1
TRINITY_DN3807_c1_g1_i1_3	4,21E-45	155	dbj|BAT79464.1	hypothetical protein VIGAN_02235800	Vigna angularis var. angularis	BAT79464.1
TRINITY_DN7004_c0_g2_i1_2	8,42E-34	120	XP_018820092.1	mitochondrial import receptor subunit TOM9-2-like	Juglans regia	OAY55497.1
TRINITY_DN10332_c0_g2_i1_4	0	889	XP_018828572.1	alanine--glyoxylate aminotransferase 2 homolog 2, mitochondrial-like	Juglans regia	OAY41602.1
TRINITY_DN8478_c0_g1_i1_1	7,04E-17	77,8	XP_018836308.1	uncharacterized protein LOC109002851	Juglans regia	OAY37734.1
TRINITY_DN11043_c0_g1_i1_6	0	808	XP_018838284.1	7-dehydrocholesterol reductase	Juglans regia	KDP25052.1
TRINITY_DN6414_c0_g2_i2_1	3,02E-131	375	XP_018840252.1	inosine triphosphate pyrophosphatase isoform X2	Juglans regia	KHN24364.1
TRINITY_DN12528_c0_g1_i1_1	9,79E-56	189	XP_018836693.1	uncharacterized protein LOC109003142	Juglans regia	XP_004504464.1
TRINITY_DN2126_c0_g1_i1_4	1,34E-105	303	XP_008393423.1	tubulin beta-1 chain-like	Malus domestica	AFK39823.1
TRINITY_DN8608_c1_g1_i1_4	6,93E-100	291	AAG40330.1|AF323974_1 major allergen variant Cor a 1.0403	Corylus avellana		AAG40329.1|AF323973_1 major allergen variant Cor a 1.0402
TRINITY_DN10518_c0_g1_i3_1	6,33E-140	408	XP_018843448.1	probable S-adenosylmethionine-dependent methyltransferase At5g38780	Juglans regia	XP_009347740.1
TRINITY_DN10154_c0_g1_i1_3	0	775	XP_018810134.1	dihydropyrimidine dehydrogenase (NADP(+)), chloroplastic-like	Juglans regia	XP_018823611.1
TRINITY_DN4990_c0_g2_i1_5	6,90E-132	384	ONI30961.1	hypothetical protein PRUPE_1G284600	Prunus persica	XP_007224102.1
TRINITY_DN8848_c0_g1_i1_2	0	712	XP_018847993.1	importin subunit alpha-1-like	Juglans regia	XP_018847994.1
TRINITY_DN2750_c0_g2_i1_2	6,60E-172	481	XP_018842902.1	haloacid dehalogenase-like hydrolase domain-containing protein At4g39970 isoform X1	Juglans regia	XP_018860336.1
TRINITY_DN6078_c0_g1_i2_4	8,29E-87	274	XP_018831343.1	probable ADP-ribosylation factor GTPase-activating protein AGD6	Juglans regia	OAY41270.1
TRINITY_DN8790_c0_g2_i2_2	6,79E-66	202	XP_008374266.1	mitochondrial pyruvate carrier 1-like	Malus domestica	XP_008374267.1
TRINITY_DN6367_c0_g1_i1_3	5,18E-111	324	KRH11114.1	hypothetical protein GLYMA_15G089800	Glycine max	XP_003546060.1
TRINITY_DN11511_c1_g1_i1_6	5,60E-20	85,5	XP_008226264.1	probable glutathione S-transferase	Prunus mume	XP_020417337.1
TRINITY_DN6200_c0_g1_i1_6	5,30E-114	337	OAY27086.1	hypothetical protein MANES_16G098600	Manihot esculenta	KDP33877.1
TRINITY_DN8259_c0_g1_i1_2	0	532	XP_018852406.1	D-aminoacyl-tRNA deacylase	Juglans regia	XP_018852407.1

TRINITY_DN6098_c0_g1_i1_2	0	644	XP_018813512.1	farnesyl pyrophosphate synthase 1-like	Juglans regia	XP_018813518.1
TRINITY_DN17635_c0_g1_i1_1	3,93E-153	456	XP_018807321.1	aconitate hydratase 1	Juglans regia	OAY57605.1
TRINITY_DN21752_c0_g1_i1_3	7,00E-16	75,5	XP_018819170.1	eukaryotic translation initiation factor 4G-like isoform X2	Juglans regia	XP_018819162.1
TRINITY_DN11371_c0_g2_i1_1	0	803	XP_018809613.1	alanine--glyoxylate aminotransferase 2 homolog 1, mitochondrial	Juglans regia	XP_019437590.1
TRINITY_DN4480_c0_g1_i2_2	0	534	XP_008239736.1	mitochondrial uncoupling protein 1	Prunus mume	KDP24500.1
TRINITY_DN6825_c0_g1_i1_1	0	531	XP_018847917.1	peroxisomal 2,4-dienoyl-CoA reductase	Juglans regia	XP_008383145.1
TRINITY_DN15184_c0_g1_i1_6	9,48E-24	96,7	XP_018855089.1	protein disulfide isomerase-like 1-6, partial	Juglans regia	XP_018837500.1
TRINITY_DN2842_c0_g1_i1_6	5,33E-97	289	ONI06500.1	hypothetical protein PRUPE_5G064700	Prunus persica	XP_007209384.1
TRINITY_DN7658_c0_g1_i1_3	1,02E-151	427	XP_018832029.1	ras-related protein RABA1b-like	Juglans regia	XP_018849174.1
TRINITY_DN6555_c0_g1_i2_5	4,60E-118	348	XP_018838239.1	triose phosphate/phosphate translocator, non-green plastid, chloroplastic-like	Juglans regia	XP_018821285.1
TRINITY_DN7691_c0_g1_i2_3	1,59E-122	368	OAY49551.1	hypothetical protein MANES_05G065200	Manihot esculenta	AES82113.1
TRINITY_DN11075_c0_g1_i1_1	0	651	XP_018828379.1	heterogeneous nuclear ribonucleoprotein 1-like	Juglans regia	XP_018823852.1
TRINITY_DN8971_c0_g1_i1_4	6,73E-36	130	XP_018816525.1	ATP-citrate synthase alpha chain protein 3	Juglans regia	XP_008360239.2
TRINITY_DN11579_c0_g1_i2_1	1,20E-86	258	KDP31091.1	hypothetical protein JCGZ_11467	Jatropha curcas	XP_012080054.1
TRINITY_DN3015_c0_g1_i1_1	0	710	XP_018837882.1	dynamin-related protein 1C	Juglans regia	XP_018814632.1
TRINITY_DN1893_c0_g1_i1_2	6,94E-30	114	XP_018840883.1	protein transport Sec1a-like	Juglans regia	XP_008232655.1
TRINITY_DN51_c0_g1_i1_2	2,54E-111	326	ONH92468.1	hypothetical protein PRUPE_8G177400	Prunus persica	XP_007199907.1
TRINITY_DN9907_c0_g2_i2_3	2,68E-177	499	XP_018840900.1	probable prolyl 4-hydroxylase 10	Juglans regia	XP_018807322.1
TRINITY_DN12604_c0_g1_i1_2	0	749	XP_018843664.1	4-alpha-glucanotransferase DPE2 isoform X2	Juglans regia	XP_018843664.1
TRINITY_DN16223_c0_g1_i1_1	1,11E-23	97,1	XP_018846984.1	calcium-transporting ATPase 4, plasma membrane-type-like isoform X2	Juglans regia	XP_018846983.1
TRINITY_DN1060_c0_g1_i1_1	5,64E-98	300	XP_018829351.1	uncharacterized protein LOC108997478 isoform X2	Juglans regia	XP_018829342.1
TRINITY_DN10488_c0_g1_i1_2	0	533	ONH98930.1	hypothetical protein PRUPE_6G000600	Prunus persica	XP_007205625.1
TRINITY_DN9024_c1_g1_i2_5	6,03E-93	277	XP_018845871.1	succinate dehydrogenase assembly factor 2, mitochondrial isoform X1	Juglans regia	KDP22524.1
TRINITY_DN10216_c0_g1_i1_3	1,08E-111	323	XP_018825523.1	enoyl-CoA delta isomerase 1, peroxisomal-like	Juglans regia	XP_018825524.1
TRINITY_DN4751_c0_g1_i1_3	0	508	XP_018834471.1	uncharacterized protein LOC109001574 isoform X1	Juglans regia	XP_018834472.1
TRINITY_DN3627_c0_g2_i1_4	0	728	XP_018819725.1	endoplasmic reticulum oxidoreductin-2-like	Juglans regia	XP_018819726.1
TRINITY_DN5091_c0_g1_i1_4	5,08E-138	419	XP_018805796.1	protein WEAK CHLOROPLAST MOVEMENT UNDER BLUE LIGHT 1-like	Juglans regia	XP_018805797.1
TRINITY_DN10763_c0_g1_i4_1						
TRINITY_DN11635_c2_g1_i6_2	0	595	XP_018824429.1	probable aldo-keto reductase 2	Juglans regia	XP_018858774.1
TRINITY_DN19987_c0_g1_i1_3	1,62E-46	152	ONI35294.1	hypothetical protein PRUPE_1G528100	Prunus persica	XP_007223705.1
TRINITY_DN10849_c0_g1_i2_5	3,17E-20	86,3	XP_018852386.1	protein SPIRAL1-like 1	Juglans regia	XP_018852387.1
TRINITY_DN9489_c0_g2_i1_2	0	528	XP_018813719.1	cysteine proteinase COT44-like	Juglans regia	XP_018845023.1
TRINITY_DN4080_c0_g1_i1_3	7,57E-42	148	XP_018838198.1	uncharacterized protein LOC109004190	Juglans regia	XP_008238951.1

TRINITY_DN6613_c0_g1_i1_4	7,49E-152	433	XP_018847491.1	nudix hydrolase 2-like isoform X1	Juglans regia	XP_018833252.1
TRINITY_DN8186_c0_g1_i3_1	0	630	XP_018845363.1	pyruvate kinase 1, cytosolic-like	Juglans regia	XP_009361441.1
TRINITY_DN11291_c0_g1_i2_3	1,49E-141	405	XP_018850746.1	uncharacterized protein LOC109013191 isoform X2	Juglans regia	OAY54849.1
TRINITY_DN11520_c0_g1_i1_2	0	808	XP_018811216.1	multiple inositol polyphosphate phosphatase 1	Juglans regia	XP_008233804.1
TRINITY_DN8996_c0_g1_i1_4	2,85E-110	320	KEH19791.1	ubiquitin-conjugating enzyme	Medicago truncatula	XP_013445765.1
TRINITY_DN10798_c1_g1_i1_2	3,30E-58	197	XP_018844510.1	dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit STT3B	Juglans regia	XP_018808402.1
TRINITY_DN4765_c0_g3_i1_1	0	565	XP_018811976.1	CBL-interacting serine/threonine-protein kinase 9	Juglans regia	XP_008233067.1
TRINITY_DN8594_c0_g1_i1_1	5,16E-11	58,2	KDP41684.1	hypothetical protein JCGZ_16091	Jatropha curcas	KDP41684.1
TRINITY_DN10973_c0_g3_i2_1	2,01E-163	472	XP_018843210.1	mitochondrial Rho GTPase 1-like	Juglans regia	XP_018841787.1
TRINITY_DN17195_c0_g1_i1_1	9,91E-87	254	XP_018808351.1	elicitor-responsive protein 1-like	Juglans regia	XP_018808352.1
TRINITY_DN7057_c1_g1_i1_2	0	683	XP_018834116.1	probable isoprenylcysteine alpha-carbonyl methylesterase ICMEL2	Juglans regia	XP_009357013.1
TRINITY_DN23079_c0_g1_i1_4	1,88E-42	150	XP_018846983.1	calcium-transporting ATPase 4, plasma membrane-type-like isoform X1	Juglans regia	XP_018846984.1
TRINITY_DN1992_c0_g1_i1_1	5,98E-76	246	XP_015938020.1	coatomer subunit beta-1	Arachis duranensis	XP_016174940.1
TRINITY_DN13881_c0_g1_i1_1	2,20E-174	489	XP_018859762.1	LOW QUALITY PROTEIN: methionine adenosyltransferase 2 subunit beta	Juglans regia	XP_008232770.1
TRINITY_DN14656_c0_g1_i1_2	5,19E-43	145	ONH95538.1	hypothetical protein PRUPE_7G076200	Prunus persica	ONH95537.1
TRINITY_DN3861_c0_g1_i2_3	1,24E-107	334	XP_018807473.1	uncharacterized protein LOC108980890	Juglans regia	KDP22063.1
TRINITY_DN8241_c0_g1_i1_2	2,44E-178	500	XP_018825788.1	fructose-bisphosphate aldolase, cytoplasmic isozyme 1	Juglans regia	KDP32624.1
TRINITY_DN17884_c0_g1_i1_4	7,93E-41	145	XP_018806543.1	isoleucine--tRNA ligase, cytoplasmic	Juglans regia	ONI29194.1
TRINITY_DN7822_c0_g1_i3_2	0	521	XP_018860709.1	secretory carrier-associated membrane protein 1 isoform X1	Juglans regia	XP_018860711.1
TRINITY_DN11037_c0_g1_i1_3	4,98E-130	380	XP_018838963.1	uncharacterized protein LOC109004752	Juglans regia	XP_018821762.1
TRINITY_DN5712_c0_g2_i2_1	0	681	XP_018827690.1	acetyl-coenzyme A synthetase, chloroplastic/glyoxysomal isoform X1	Juglans regia	XP_018827691.1
TRINITY_DN22171_c0_g1_i1_5	9,03E-78	245	ONI02007.1	hypothetical protein PRUPE_6G172500	Prunus persica	ONI02008.1
TRINITY_DN12955_c0_g1_i1_1	2,55E-36	132	XP_018829351.1	uncharacterized protein LOC108997478 isoform X2	Juglans regia	XP_018829342.1
TRINITY_DN10631_c0_g1_i1_4	0	591	XP_018844917.1	transmembrane protein 120 homolog	Juglans regia	XP_018809367.1
TRINITY_DN6543_c0_g1_i1_4	2,28E-42	156	XP_018835518.1	UDP-glucose:glycoprotein glucosyltransferase	Juglans regia	ONI36146.1
TRINITY_DN10109_c0_g1_i3_2	3,61E-70	217	XP_018842596.1	tobamovirus multiplication protein 2A-like, partial	Juglans regia	XP_018838258.1
TRINITY_DN11659_c0_g1_i1_1	4,06E-34	129	XP_008221788.1	aldehyde dehydrogenase family 2 member B7, mitochondrial	Prunus mume	KDP26565.1
TRINITY_DN21796_c0_g1_i1_1	1,73E-45	150	XP_008344672.1	DEAD-box ATP-dependent RNA helicase 52C-like, partial	Malus domestica	KDP30456.1
TRINITY_DN10608_c0_g1_i4_3	1,06E-126	367	XP_018837520.1	hydroxyphenylpyruvate reductase	Juglans regia	XP_008342684.1

TRINITY_DN8882_c0_g1_i3_2	0	861	XP_018857854.1	ubiquitin carboxyl-terminal hydrolase 13-like	Juglans regia	XP_018852065.1
TRINITY_DN8417_c1_g1_i1_6	5,25E-23	91,7	XP_018836212.1	26S proteasome non-ATPase regulatory subunit 10	Juglans regia	XP_007157422.1
TRINITY_DN285_c0_g1_i1_6	4,11E-163	462	XP_018847038.1	tubulin-folding cofactor C	Juglans regia	XP_017188064.1
TRINITY_DN8647_c0_g1_i1_4	8,93E-57	186	KHN11010.1	F-box protein	Glycine soja	XP_018833073.1
TRINITY_DN1686_c0_g1_i1_2	1,20E-38	128	XP_014507355.1	cytochrome c oxidase subunit 6b-2	Vigna radiata var. radiata	ACU17340.1
TRINITY_DN16666_c0_g1_i1_3	3,58E-24	99	XP_018847012.1	ATP sulfurylase 2-like	Juglans regia	XP_018812595.1
TRINITY_DN8134_c0_g1_i1_2	2,68E-79	238	XP_018830449.1	UPF0678 fatty acid-binding protein-like protein At1g79260 isoform X1	Juglans regia	XP_018830450.1
TRINITY_DN1558_c0_g1_i1_3	1,62E-87	275	XP_009336194.1	phosphatidylinositol 4-phosphate 5-kinase 5-like	Pyrus x bretschneideri	XP_009348280.1
TRINITY_DN7263_c0_g1_i1_2	1,33E-127	378	XP_018850062.1	acyl-CoA-binding domain-containing protein 4	Juglans regia	XP_018850062.1
TRINITY_DN9028_c0_g1_i1_3	0	893	XP_018849693.1	ERAD-associated E3 ubiquitin-protein ligase HRD1B-like	Juglans regia	XP_018849695.1
TRINITY_DN10191_c0_g1_i1_3	1,32E-36	126	OAY35302.1	hypothetical protein MANES_12G089400	Manihot esculenta	XP_018850228.1
TRINITY_DN9202_c0_g1_i1_5	3,78E-32	114	XP_018855976.1	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 3-A-like	Juglans regia	XP_008218629.1
TRINITY_DN3322_c0_g2_i1_2	0	644	XP_018807641.1	arginine biosynthesis bifunctional protein ArgJ, chloroplastic	Juglans regia	XP_008369856.1
TRINITY_DN661_c0_g1_i1_1	1,18E-148	429	XP_018811850.1	imidazole glycerol phosphate synthase hisHF, chloroplastic isoform X3	Juglans regia	XP_018811844.1
TRINITY_DN284_c0_g2_i1_5	1,74E-67	210	XP_018819519.1	yrdC domain-containing protein, mitochondrial isoform X2	Juglans regia	XP_018819515.1
TRINITY_DN804_c0_g1_i1_1	1,39E-20	87,8	XP_018825836.1	uncharacterized protein LOC108994893	Juglans regia	XP_018825834.1
TRINITY_DN14006_c0_g1_i1_3	1,53E-73	221	AFK45051.1	unknown	Lotus japonicus	XP_018820205.1
TRINITY_DN21069_c0_g1_i1_4	4,13E-118	359	XP_018807473.1	uncharacterized protein LOC108980890	Juglans regia	ONH99278.1
TRINITY_DN9015_c0_g1_i1_4	4,17E-78	253	OAY57931.1	hypothetical protein MANES_02G136100	Manihot esculenta	XP_018829157.1
TRINITY_DN10966_c0_g1_i1_3	2,73E-127	373	XP_018819428.1	phenylalanine--tRNA ligase beta subunit, cytoplasmic-like	Juglans regia	XP_018814927.1
TRINITY_DN3062_c0_g1_i1_3	3,17E-143	414	XP_018841559.1	alpha-1,3-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase-like isoform X1	Juglans regia	XP_018841560.1
TRINITY_DN15393_c0_g1_i1_5	6,51E-74	223	XP_018835474.1	uncharacterized protein LOC109002264	Juglans regia	XP_018808497.1
TRINITY_DN7397_c0_g1_i2_1	1,23E-155	442	XP_018805220.1	signal recognition particle receptor subunit beta-like	Juglans regia	XP_018805221.1
TRINITY_DN843_c0_g1_i1_5	9,85E-122	362	XP_018821230.1	protein SLOW GREEN 1, chloroplastic-like	Juglans regia	XP_016647139.1
TRINITY_DN13608_c0_g1_i1_6	2,61E-56	190	OAY33315.1	hypothetical protein MANES_13G085700	Manihot esculenta	XP_018844607.1
TRINITY_DN3889_c0_g3_i1_3	3,01E-70	213	XP_015940120.1	PITH domain-containing protein At3g04780	Arachis duranensis	XP_015940121.1
TRINITY_DN6029_c0_g1_i1_1	4,02E-121	357	XP_018836309.1	aspartic proteinase-like	Juglans regia	XP_018836310.1
TRINITY_DN5896_c0_g1_i2_3	2,30E-91	226	XP_018829342.1	uncharacterized protein LOC108997478 isoform X1	Juglans regia	XP_018829342.1

TRINITY_DN12487_c0_g1_i1_1	5,26E-138	414	XP_018844325.1	ATPase 9, plasma membrane-type	Juglans regia	XP_019448064.1
TRINITY_DN21101_c0_g1_i1_4	6,69E-67	207	XP_018854480.1	bifunctional dTDP-4-dehydrorhamnose 3,5-epimerase/dTDP-4-dehydrorhamnose reductase	Juglans regia	XP_018820521.1
TRINITY_DN20395_c0_g2_i1_2	2,60E-26	108	XP_018835918.1	myb-like protein X	Juglans regia	XP_018835919.1
TRINITY_DN11574_c0_g1_i5_3	0	837	XP_018808164.1	flavin-dependent oxidoreductase FOX2-like	Juglans regia	XP_008225656.1
TRINITY_DN16156_c0_g1_i1_2	9,29E-38	127	KRH41969.1	hypothetical protein GLYMA_08G061200	Glycine max	KRH41968.1
TRINITY_DN10717_c1_g1_i3_1	0	545	XP_018807382.1	putative G3BP-like protein	Juglans regia	XP_018850163.1
TRINITY_DN11531_c0_g1_i3_3	0	952	OAY28337.1	hypothetical protein MANES_15G059000, partial	Manihot esculenta	OAY28338.1
TRINITY_DN7911_c0_g1_i3_1	7,63E-93	274	XP_018848154.1	thioredoxin Y1, chloroplastic-like	Juglans regia	ONH90075.1
TRINITY_DN5389_c0_g1_i1_5	1,60E-108	322	XP_017184434.1	ubiquitin carboxyl-terminal hydrolase 13-like, partial	Malus domestica	OAY40681.1
TRINITY_DN7964_c0_g4_i1_6	1,76E-118	342	XP_018848922.1	probable protein kinase At2g41970 isoform X2	Juglans regia	XP_018848920.1
TRINITY_DN12169_c0_g1_i1_2	9,36E-76	238	XP_018814628.1	putative G3BP-like protein	Juglans regia	XP_018816596.1
TRINITY_DN23339_c0_g1_i1_1	3,59E-45	156	XP_018821986.1	malate synthase, glyoxysomal	Juglans regia	XP_020216328.1
TRINITY_DN9250_c0_g1_i1_3	1,64E-171	489	XP_018828279.1	dnaJ homolog subfamily B member 4-like	Juglans regia	XP_020223904.1
TRINITY_DN18399_c0_g1_i1_1	4,81E-75	245	XP_018809070.1	probable manganese-transporting ATPase PDR2	Juglans regia	XP_018809074.1
TRINITY_DN9486_c0_g1_i1_2	0	637	XP_018835583.1	polyadenylate-binding protein RBP47-like isoform X1	Juglans regia	XP_018841963.1
TRINITY_DN5674_c0_g1_i1_1	0	712	XP_018840528.1	DUF21 domain-containing protein At4g14240-like	Juglans regia	XP_018826137.1
TRINITY_DN6255_c0_g3_i1_1	9,31E-102	308	XP_018859113.1	uncharacterized protein At4g06744-like	Juglans regia	XP_018859113.1
TRINITY_DN10766_c0_g1_i3_3	0	985	KHN28892.1	Putative phagocytic receptor 1b	Glycine soja	KHN25962.1
TRINITY_DN10543_c0_g1_i1_6	0	523	XP_018859854.1	phosphoglycerate mutase-like protein 1 isoform X6	Juglans regia	XP_018859855.1
TRINITY_DN2263_c0_g2_i1_6	8,86E-112	332	XP_008342628.1	protein transport protein Sec24-like At4g32640	Malus domestica	XP_017185211.1
TRINITY_DN11003_c0_g2_i5_2	0	833	XP_004485538.1	serine decarboxylase 1	Cicer arietinum	XP_004485539.1
TRINITY_DN9687_c1_g1_i2_2	6,70E-86	272	XP_018821713.1	eukaryotic translation initiation factor 4B2-like	Juglans regia	XP_018821321.1
TRINITY_DN9737_c1_g1_i1_4	2,47E-132	376	AEA92306.1	Arf2	Hevea brasiliensis	OAY48870.1
TRINITY_DN11475_c0_g1_i1_2	0	659	XP_018836507.1	ankyrin repeat-containing protein ITN1-like	Juglans regia	XP_016175448.1
TRINITY_DN6747_c0_g1_i1_2	5,67E-167	486	XP_018826882.1	protein EXECUTER 1, chloroplastic-like	Juglans regia	XP_008373217.1
TRINITY_DN2919_c0_g1_i1_5	3,72E-118	344	XP_018816480.1	S-adenosylmethionine synthase 5-like	Juglans regia	OAY43921.1
TRINITY_DN9215_c0_g1_i1_2	0	605	XP_018848409.1	protein STRICTOSIDINE SYNTHASE-LIKE 10-like	Juglans regia	XP_008244837.1
TRINITY_DN5123_c0_g1_i2_4	2,73E-78	233	OAY42085.1	hypothetical protein MANES_09G151800	Manihot esculenta	OAY42086.1
TRINITY_DN2276_c0_g2_i1_6	7,84E-179	513	XP_018825905.1	uncharacterized protein LOC108994927 isoform X3	Juglans regia	XP_018825903.1
TRINITY_DN8639_c0_g1_i1_6	5,85E-131	383	KDP25525.1	hypothetical protein JCGZ_20681	Jatropha curcas	XP_012087024.1
TRINITY_DN6651_c0_g1_i1_3	0	627	XP_018811480.1	protein NRT1/ PTR FAMILY 8.1-like	Juglans regia	XP_018811480.1

TRINITY_DN8585_c0_g1_i1_4	0	744	XP_008226105.1	acetylornithine aminotransferase, mitochondrial-like	Prunus mume	ONI11967.1
TRINITY_DN21541_c0_g1_i1_4	3,04E-83	256	XP_009358971.1	serine carboxypeptidase-like 20 isoform X1	Pyrus x bretschneideri	XP_009358972.1
TRINITY_DN8030_c0_g1_i1_2	7,58E-47	152	XP_018833990.1	uncharacterized protein LOC109001246	Juglans regia	XP_018824533.1
TRINITY_DN7519_c0_g2_i1_2	0	712	XP_018823857.1	probable 26S proteasome non-ATPase regulatory subunit 3	Juglans regia	XP_018841498.1
TRINITY_DN11415_c0_g1_i1_1	8,38E-78	235	KYP55926.1	Multiprotein-bridging factor 1a	Cajanus cajan	KYP67761.1
TRINITY_DN9353_c0_g1_i1_3	4,39E-113	335	emb|CAX05443.1	unnamed protein product	Glycine max	CAX05471.1
TRINITY_DN5812_c0_g1_i1_1	5,08E-142	402	XP_018839374.1	proteasome subunit beta type-2-A	Juglans regia	XP_018812168.1
TRINITY_DN11107_c1_g1_i4_3	0	1040	XP_018831636.1	phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and protein-tyrosine-phosphatase PTEN2A-like	Juglans regia	XP_018831637.1
TRINITY_DN3448_c0_g1_i1_2	4,62E-139	398	XP_018828828.1	bidirectional sugar transporter SWEET4 isoform X1	Juglans regia	XP_008230949.1
TRINITY_DN9452_c0_g1_i1_1	1,02E-129	374	OAY41624.1	hypothetical protein MANES_09G116800	Manihot esculenta	XP_018812032.1
TRINITY_DN8582_c0_g2_i1_3	0	695	XP_018837412.1	ATP-dependent 6-phosphofructokinase 2	Juglans regia	OAY41242.1
TRINITY_DN15392_c0_g1_i1_5	2,69E-69	226	XP_016187872.1	beta-adaptin-like protein B isoform X2	Arachis ipaensis	ONI07170.1
TRINITY_DN2089_c0_g1_i1_5	2,80E-79	251	XP_018809084.1	delta-1-pyrroline-5-carboxylate synthase isoform X2	Juglans regia	XP_018809083.1
TRINITY_DN8917_c0_g2_i1_3	0	858	XP_018820175.1	monothiol glutaredoxin-S17	Juglans regia	XP_018820175.1
TRINITY_DN16117_c0_g1_i1_6	3,51E-31	117	XP_018845708.1	beta-galactosidase-like	Juglans regia	XP_018845720.1
TRINITY_DN8546_c0_g1_i1_2	0	1264	XP_018817103.1	long chain acyl-CoA synthetase 9, chloroplastic	Juglans regia	XP_018812536.1
TRINITY_DN3962_c0_g1_i2_3	0	1045	XP_018845571.1	beta-adaptin-like protein A	Juglans regia	XP_009367922.1
TRINITY_DN2992_c0_g1_i1_3	0	714	XP_018842611.1	cytosolic enolase 3	Juglans regia	ONI00028.1
TRINITY_DN11605_c1_g1_i1_5	4,09E-77	231	KDP34497.1	hypothetical protein JCGZ_11047	Jatropha curcas	XP_012075960.1
TRINITY_DN401_c0_g1_i1_3	3,63E-135	385	XP_015949837.1	ras-related protein RABA4d	Arachis duranensis	XP_012073057.1
TRINITY_DN18414_c0_g1_i1_2	0	597	XP_018835247.1	uncharacterized protein YMR315W	Juglans regia	KDP20201.1
TRINITY_DN9346_c0_g1_i2_1	0	731	XP_018851337.1	acetolactate synthase small subunit 2, chloroplastic-like isoform X1	Juglans regia	ONH98842.1
TRINITY_DN8618_c0_g2_i2_4	0	1080	XP_018821744.1	probable alpha-galactosidase B	Juglans regia	ONI30366.1
TRINITY_DN5167_c0_g1_i1_5	0	877	XP_018810974.1	uncharacterized protein LOC108983704	Juglans regia	XP_018855417.1
TRINITY_DN15469_c0_g1_i1_6	4,33E-66	211	AET01305.2	dynamin 1E-like protein	Medicago truncatula	XP_003626829.2
TRINITY_DN19298_c0_g1_i1_1	3,04E-59	197	KRH31453.1	hypothetical protein GLYMA_11G248700	Glycine max	ONI30124.1
TRINITY_DN11193_c0_g2_i3_2	0	510	XP_018846970.1	ADP-glucose phosphorylase-like isoform X1	Juglans regia	OAY41942.1
TRINITY_DN11599_c1_g1_i4_1	1,84E-37	135	XP_018830823.1	anthocyanidin 3-O-glucosyltransferase 2-like isoform X2	Juglans regia	XP_018815994.1
TRINITY_DN6675_c0_g1_i4_2	0	802	XP_018843891.1	DEAD-box ATP-dependent RNA helicase 53-like	Juglans regia	ONI18008.1
TRINITY_DN9665_c0_g1_i1_2	1,20E-04	46,2	OIW04983.1	hypothetical protein TanjilG_24455	Lupinus angustifolius	XP_019455534.1
TRINITY_DN10222_c0_g1_i5_2	0	822	XP_018835087.1	polyadenylate-binding protein-interacting protein 3-like isoform X1	Juglans regia	XP_018835088.1

TRINITY_DN8244_c0_g1_i1_2	3,38E-59	189	XP_009358246.1	protein disulfide isomerase-like 5-1	Pyrus x bretschneideri	XP_009338286.1
TRINITY_DN6988_c0_g2_i1_1	1,10E-156	451	XP_018821556.1	nucleosome assembly protein 1;4-like	Juglans regia	ONI15531.1
TRINITY_DN21693_c0_g1_i1_3	1,28E-40	145	XP_018829558.1	alpha-mannosidase	Juglans regia	XP_007156173.1
TRINITY_DN6721_c0_g1_i1_2	0	722	XP_018844889.1	ruvB-like protein 1 isoform X1	Juglans regia	XP_018844890.1
TRINITY_DN10523_c1_g1_i1_2	7,96E-55	174	XP_018815191.1	60S ribosomal protein L22-2-like	Juglans regia	XP_018858309.1
TRINITY_DN8754_c0_g1_i1_1	2,10E-117	337	OIV98465.1	hypothetical protein TanjilG_16792	Lupinus angustifolius	XP_019414713.1
TRINITY_DN21226_c0_g1_i1_1	1,83E-42	150	XP_018817814.1	cullin-associated NEDD8-dissociated protein 1	Juglans regia	XP_020539505.1
TRINITY_DN18056_c0_g1_i1_1	2,02E-96	294	XP_018813115.1	fasciclin-like arabinogalactan protein 1	Juglans regia	KDP39270.1
TRINITY_DN11502_c0_g1_i1_2	0	615	XP_018823768.1	protein EARLY-RESPONSIVE TO DEHYDRATION 7, chloroplastic-like	Juglans regia	XP_018823769.1
TRINITY_DN8308_c0_g2_i1_2	0	777	XP_018852257.1	cysteine proteinase RD21A-like	Juglans regia	XP_018819893.1
TRINITY_DN5126_c0_g1_i2_2	0	509	XP_009355788.1	protein MEMO1	Pyrus x bretschneideri	XP_012076496.1
TRINITY_DN7908_c0_g1_i1_3	2,28E-138	399	XP_018821130.1	anamorsin homolog isoform X1	Juglans regia	XP_018821131.1
TRINITY_DN10955_c0_g2_i3_1	2,04E-150	423	XP_018843526.1	ras-related protein RABH1b-like isoform X1	Juglans regia	XP_018843527.1
TRINITY_DN8800_c0_g1_i1_3	6,01E-142	410	XP_018819392.1	ethanolamine-phosphate cytidylyltransferase	Juglans regia	XP_018819392.1
TRINITY_DN4365_c0_g1_i1_1	1,56E-38	140	XP_018812893.1	uncharacterized protein LOC108985160 isoform X2	Juglans regia	XP_018812892.1
TRINITY_DN14633_c0_g1_i1_2	0	589	XP_018834060.1	glutamine--fructose-6-phosphate aminotransferase [isomerizing 2]	Juglans regia	KDP26882.1
TRINITY_DN3011_c0_g2_i1_3	1,23E-86	255	XP_018832728.1	protein FAM136A-like	Juglans regia	XP_018840436.1
TRINITY_DN2343_c0_g1_i1_1	2,51E-112	339	KOM29550.1	hypothetical protein LR48_Vigan727s000900	Vigna angularis	KOM45043.1
TRINITY_DN9033_c1_g1_i1_6	1,24E-57	183	XP_018839419.1	transmembrane emp24 domain-containing protein p24beta3-like isoform X1	Juglans regia	XP_014511241.1
TRINITY_DN2502_c0_g2_i1_2	2,32E-131	385	XP_018816803.1	transmembrane 9 superfamily member 3-like	Juglans regia	KRH38977.1
TRINITY_DN7907_c0_g1_i4_4	2,89E-79	239	XP_018834938.1	uncharacterized protein LOC109001895 isoform X1	Juglans regia	XP_018834946.1
TRINITY_DN642_c0_g1_i1_2	0	654	XP_018808362.1	porphobilinogen deaminase, chloroplastic isoform X1	Juglans regia	XP_012072847.1
TRINITY_DN701_c0_g2_i1_6	4,18E-177	505	XP_018847248.1	copper chaperone for superoxide dismutase, chloroplastic/cytosolic isoform X1	Juglans regia	XP_018847253.1
TRINITY_DN6896_c0_g1_i1_1	3,61E-61	188	XP_018836754.1	uncharacterized protein LOC109003181	Juglans regia	XP_018836756.1
TRINITY_DN12989_c1_g1_i1_1	1,22E-50	162	ONI28085.1	hypothetical protein PRUPE_1G122200	Prunus persica	XP_016647418.1
TRINITY_DN11038_c0_g1_i1_3	2,10E-17	79,7	XP_018817568.1	probable ADP-ribosylation factor GTPase-activating protein AGD9 isoform X1	Juglans regia	XP_018817570.1
TRINITY_DN6818_c0_g1_i1_3	5,44E-108	315	XP_018815857.1	chloride conductance regulatory protein ICln isoform X1	Juglans regia	KDP22395.1
TRINITY_DN18372_c0_g1_i1_2	5,64E-36	131	ONI17578.1	hypothetical protein PRUPE_3G168100	Prunus persica	XP_007217629.1

TRINITY_DN19362_c0_g1_i1_3	1,87E-92	284	XP_018832925.1	protein ABC transporter 1, mitochondrial	Juglans regia	KDP28361.1
TRINITY_DN13345_c0_g1_i1_4	1,64E-30	117	XP_018829229.1	glycine--tRNA ligase, mitochondrial 1-like	Juglans regia	XP_018841637.1
TRINITY_DN8412_c0_g1_i2_1	9,54E-104	299	XP_018822047.1	probable ubiquitin-conjugating enzyme E2 16	Juglans regia	OAY60809.1
TRINITY_DN15351_c0_g1_i1_3	7,06E-79	248	OAY49651.1	hypothetical protein MANES_05G072200	Manihot esculenta	ONH93689.1
TRINITY_DN19403_c0_g1_i1_1	0	545	XP_018827627.1	pleiotropic drug resistance protein 1-like	Juglans regia	XP_018827627.1
TRINITY_DN4912_c0_g1_i1_3	0	1057	XP_018817860.1	methylcrotonoyl-CoA carboxylase beta chain, mitochondrial isoform X2	Juglans regia	XP_018817859.1
TRINITY_DN9231_c0_g1_i3_3	3,04E-63	194	XP_018857951.1	acyl carrier protein 3, mitochondrial-like isoform X2	Juglans regia	XP_018857952.1
TRINITY_DN10613_c0_g1_i1_2	0	616	XP_018829679.1	2-methyl-6-phytyl-1,4-hydroquinone methyltransferase, chloroplastic-like isoform X1	Juglans regia	XP_018829680.1
TRINITY_DN3524_c0_g1_i1_2	5,81E-135	395	XP_018847795.1	dnaJ protein P58IPK homolog	Juglans regia	XP_008369755.1
TRINITY_DN3963_c0_g1_i1_1	0	1107	XP_018842470.1	probable glutamyl endopeptidase, chloroplastic isoform X2	Juglans regia	XP_018842472.1
TRINITY_DN1013_c0_g2_i1_6	0	691	XP_018816814.1	mannose-6-phosphate isomerase 1	Juglans regia	KDP32959.1
TRINITY_DN6811_c0_g2_i3_2	0	731	XP_018836625.1	tryptophan--tRNA ligase, cytoplasmic	Juglans regia	XP_019462109.1
TRINITY_DN12201_c0_g2_i1_2	0	542	XP_018849912.1	heterogeneous nuclear ribonucleoprotein 1 isoform X3	Juglans regia	XP_018849912.1
TRINITY_DN8972_c0_g2_i1_1	0	1244	XP_018813427.1	oligopeptide transporter 1-like	Juglans regia	XP_018813417.1
TRINITY_DN4764_c0_g2_i1_1	0	512	XP_009357399.1	chaperone protein dnaJ 50-like	Pyrus x bretschneideri	XP_009340937.1
TRINITY_DN2457_c0_g1_i1_1	5,35E-52	178	XP_018848022.1	sulfite reductase [ferredoxin], chloroplastic	Juglans regia	OAY30100.1
TRINITY_DN11036_c0_g1_i5_1	2,63E-175	503	XP_018821141.1	sugar transport protein 10-like	Juglans regia	XP_018805622.1
TRINITY_DN10961_c0_g1_i3_3	1,01E-88	283	XP_018835052.1	subtilisin-like protease SBT1.4	Juglans regia	XP_008228179.1
TRINITY_DN4707_c0_g3_i1_1	0	636	XP_018827904.1	chitinase domain-containing protein 1	Juglans regia	ONI23379.1
TRINITY_DN10673_c0_g1_i2_3	0	1274	XP_018840640.1	cullin-1-like	Juglans regia	XP_018826086.1
TRINITY_DN9408_c0_g1_i1_6	0	910	XP_018849698.1	glutamine--tRNA ligase-like	Juglans regia	XP_018849699.1
TRINITY_DN1822_c0_g2_i1_4	4,51E-106	324	KYP48152.1	Heat shock protein 90	Cajanus cajan	XP_020234319.1
TRINITY_DN18094_c0_g1_i1_4	0	600	XP_018816462.1	protein transport protein Sec24-like At3g07100	Juglans regia	XP_018816463.1
TRINITY_DN3816_c0_g1_i1_4	0	527	XP_018818080.1	(R,S)-reticuline 7-O-methyltransferase-like	Juglans regia	XP_018832989.1
TRINITY_DN10296_c0_g1_i1_1	1,82E-59	194	XP_018833432.1	nascent polypeptide-associated complex subunit alpha-like protein 2	Juglans regia	XP_018842755.1
TRINITY_DN5361_c0_g2_i1_1	0	715	XP_018823060.1	alpha-mannosidase 2	Juglans regia	XP_008230682.1
TRINITY_DN512_c0_g1_i1_4	8,82E-165	474	XP_018807711.1	putative G3BP-like protein	Juglans regia	XP_018820107.1
TRINITY_DN6953_c0_g1_i1_5	0	787	XP_018850824.1	bifunctional aspartate aminotransferase and glutamate/aspartate-prephenate aminotransferase-like	Juglans regia	XP_018816075.1
TRINITY_DN22332_c0_g1_i1_1	2,96E-35	130	XP_018819162.1	eukaryotic translation initiation factor 4G-like isoform X1	Juglans regia	XP_018819170.1
TRINITY_DN8109_c0_g1_i2_3	2,59E-121	349	XP_018833575.1	uncharacterized protein LOC109000956 isoform X1	Juglans regia	XP_008380623.1

TRINITY_DN9320_c0_g1_i1_1	2,10E-41	136	AFK48356.1	unknown	Medicago truncatula	OIV93135.1
TRINITY_DN3842_c0_g1_i1_3	2,28E-46	152	XP_018830962.1	uncharacterized protein LOC108998731 isoform X1	Juglans regia	XP_018830963.1
TRINITY_DN19595_c0_g1_i1_5	5,34E-68	208	ACJ85775.1	unknown	Medicago truncatula	KHN34065.1
TRINITY_DN12651_c0_g2_i1_3	0	769	XP_018815003.1	histidinol-phosphate aminotransferase, chloroplastic like	Juglans regia	XP_018815004.1
TRINITY_DN5781_c0_g1_i1_5	0	553	XP_018828503.1	protein TIC110, chloroplastic isoform X1	Juglans regia	XP_018828504.1
TRINITY_DN14210_c0_g1_i1_2	9,02E-68	226	ONH98837.1	hypothetical protein PRUPE_7G268000	Prunus persica	XP_020423648.1
TRINITY_DN5618_c0_g1_i1_1	4,13E-94	277	XP_018817906.1	NADPH-dependent pterin aldehyde reductase	Juglans regia	XP_012066739.1
TRINITY_DN8203_c0_g2_i1_6	9,49E-29	104	OAY56244.1	hypothetical protein MANES_02G000300	Manihot esculenta	XP_018839983.1
TRINITY_DN4496_c1_g1_i1_2	1,98E-94	277	XP_017421783.1	glucose-6-phosphate isomerase 1, chloroplastic	Vigna angularis	KHN26125.1
TRINITY_DN13442_c0_g1_i1_1						
TRINITY_DN7081_c1_g1_i1_1	8,67E-40	141	XP_018816821.1	2-hydroxyacyl-CoA lyase	Juglans regia	XP_008353818.1
TRINITY_DN2528_c0_g1_i2_1	0	874	XP_008232788.1	DEAD-box ATP-dependent RNA helicase 8	Prunus mume	ONI23005.1
TRINITY_DN6839_c0_g2_i1_4	0	727	AJA36505.1	KUP15	Prunus persica	AJA36506.1
TRINITY_DN13687_c0_g1_i1_2	3,25E-62	194	XP_018839161.1	early nodulin-like protein 1	Juglans regia	OAY53057.1
TRINITY_DN7339_c0_g1_i1_1	3,14E-81	241	XP_018812852.1	uncharacterized protein At2g34160-like	Juglans regia	OAY27368.1
TRINITY_DN5933_c0_g1_i3_1	1,55E-55	175	XP_018834211.1	molybdopterin synthase sulfur carrier subunit	Juglans regia	XP_018834212.1
TRINITY_DN10134_c0_g1_i3_5	0	532	XP_018837640.1	probable tocopherol O-methyltransferase, chloroplastic isoform X4	Juglans regia	XP_018837639.1
TRINITY_DN5831_c0_g1_i1_3	1,74E-47	165	XP_018840476.1	long chain acyl-CoA synthetase 6, peroxisomal-like	Juglans regia	OAY42281.1
TRINITY_DN8464_c0_g1_i3_6	8,16E-65	201	XP_018805629.1	uncharacterized protein LOC108979405, partial	Juglans regia	XP_008339881.1
TRINITY_DN11887_c0_g2_i1_4	7,81E-54	178	XP_018825160.1	ubiquitin-like modifier-activating enzyme 5	Juglans regia	XP_009368530.1
TRINITY_DN3833_c0_g1_i1_2	1,07E-106	311	XP_018838204.1	heme-binding protein 1	Juglans regia	ONI03605.1
TRINITY_DN10145_c0_g1_i1_3	1,35E-81	244	XP_018813174.1	bifunctional adenosine 5'-phosphosulfate phosphorylase/adenylylsulfatase HINT4	Juglans regia	XP_009334507.1
TRINITY_DN7100_c0_g1_i2_3	6,00E-95	281	XP_018853745.1	vesicle-associated protein 1-3-like	Juglans regia	XP_018820386.1
TRINITY_DN23044_c0_g1_i1_1	5,28E-42	149	XP_018830702.1	LOW QUALITY PROTEIN: tripeptidyl-peptidase 2-like	Juglans regia	XP_018828368.1
TRINITY_DN13518_c0_g1_i1_4	5,33E-91	292	XP_016179809.2	UDP-glucose:glycoprotein glucosyltransferase isoform X1	Arachis ipaensis	XP_016179810.1
TRINITY_DN19196_c0_g1_i1_5	3,25E-27	104	XP_008242033.1	peroxidase 64	Prunus mume	XP_018829560.1
TRINITY_DN3817_c0_g1_i1_5	5,91E-44	145	XP_018819823.1	MFP1 attachment factor 1-like	Juglans regia	KOM51468.1
TRINITY_DN4458_c0_g1_i1_2	5,24E-68	208	ACU15091.1	unknown, partial	Glycine max	XP_012076009.1
TRINITY_DN7255_c0_g1_i1_3	0	525	XP_018833509.1	uncharacterized protein LOC109000915 isoform X1	Juglans regia	ONI24868.1
TRINITY_DN6045_c0_g1_i3_1	3,49E-133	392	XP_018824101.1	alpha-aminoadipic semialdehyde synthase isoform X3	Juglans regia	XP_018824100.1

TRINITY_DN11230_c0_g1_i2_6	2,30E-105	318	XP_018824793.1	ethylene-responsive transcription factor 1-like	Juglans regia	XP_018817988.1
TRINITY_DN3420_c0_g1_i2_3	6,78E-144	408	XP_018828952.1	uncharacterized protein LOC108997227 isoform X3	Juglans regia	XP_018828950.1
TRINITY_DN11146_c0_g1_i2_3	0	680	XP_008222614.2	PTI1-like tyrosine-protein kinase 1 isoform X1	Prunus mume	ONI29237.1
TRINITY_DN9423_c0_g3_i2_1	7,00E-99	288	XP_018851087.1	uncharacterized protein At3g49720-like	Juglans regia	XP_018816519.1
TRINITY_DN9788_c0_g1_i1_3	0	810	XP_018835689.1	26S protease regulatory subunit 6B homolog	Juglans regia	XP_018828576.1
TRINITY_DN2628_c0_g2_i1_1	7,96E-33	124	XP_018809515.1	pantothenate kinase 2 isoform X2	Juglans regia	XP_018809511.1
TRINITY_DN9299_c0_g2_i1_3	0	618	XP_018841021.1	nudix hydrolase 19, chloroplastic isoform X2	Juglans regia	XP_018841020.1
TRINITY_DN11235_c0_g2_i1_1	0	699	XP_018843251.1	VHS domain-containing protein At3g16270	Juglans regia	XP_018843252.1
TRINITY_DN5744_c1_g1_i2_2	8,78E-97	284	XP_018825081.1	gamma carbonic anhydrase-like 2, mitochondrial	Juglans regia	XP_008239494.1
TRINITY_DN5626_c0_g2_i1_2	1,98E-138	400	XP_018822742.1	uncharacterized protein LOC108992601 isoform X1	Juglans regia	XP_008240630.1
TRINITY_DN11440_c0_g1_i3_4	0	681	XP_018852211.1	26S proteasome non-ATPase regulatory subunit 13 homolog A	Juglans regia	XP_018852212.1
TRINITY_DN11350_c0_g1_i3_2	0	678	XP_018834582.1	3-dehydroquinate synthase, chloroplastic-like	Juglans regia	XP_018832026.1
TRINITY_DN11359_c0_g1_i1_2	0	612	XP_018848058.1	phosphoglucan phosphatase DSP4, amyloplastic-like isoform X2	Juglans regia	XP_018807428.1
TRINITY_DN9373_c0_g1_i1_6	1,69E-07	48,9	XP_018823891.1	NADH-ubiquinone oxidoreductase 20.9 kDa subunit-like	Juglans regia	XP_016196445.1
TRINITY_DN12458_c0_g3_i1_3	0	827	XP_018835696.1	DEAD-box ATP-dependent RNA helicase 52A-like isoform X1	Juglans regia	ONH99629.1
TRINITY_DN5495_c0_g1_i2_2	0	578	ONI22818.1	hypothetical protein PRUPE_2G153000	Prunus persica	XP_007218197.1
TRINITY_DN12738_c0_g1_i1_1	2,69E-106	331	XP_018824098.1	alpha-aminoadipic semialdehyde synthase isoform X1	Juglans regia	XP_008363056.1
TRINITY_DN7345_c0_g1_i1_4	0	665	XP_018810471.1	COP9 signalosome complex subunit 1-like	Juglans regia	OAY49230.1
TRINITY_DN6917_c0_g1_i1_3	0	816	XP_018830113.1	glutamate-1-semialdehyde 2,1-aminomutase 2, chloroplastic	Juglans regia	OAY47995.1
TRINITY_DN9153_c0_g1_i1_3	0	880	XP_018810540.1	probable glucan 1,3-alpha-glucosidase	Juglans regia	XP_018810541.1
TRINITY_DN19500_c0_g1_i1_1	1,42E-82	250	KDP42130.1	hypothetical protein JCGZ_01918	Jatropha curcas	XP_012067122.1
TRINITY_DN12333_c0_g1_i1_2	2,50E-140	403	XP_018836373.1	uncharacterized protein LOC109002903 isoform X1	Juglans regia	XP_008340413.1
TRINITY_DN10789_c0_g1_i1_1	8,07E-113	338	XP_018851719.1	methyl-CpG-binding domain-containing protein 11-like isoform X1	Juglans regia	XP_018851720.1
TRINITY_DN2912_c0_g2_i1_4	9,21E-119	345	XP_008222776.1	protein TIC 22-like, chloroplastic	Prunus mume	ONI28935.1
TRINITY_DN14787_c0_g1_i1_6	1,51E-131	387	OIW13021.1	hypothetical protein TanjilG_15470	Lupinus angustifolius	XP_019441253.1
TRINITY_DN11096_c0_g1_i1_1	1,99E-71	216	XP_018823473.1	prefoldin subunit 1	Juglans regia	XP_008351369.1
TRINITY_DN5451_c0_g1_i1_6	1,27E-41	140	CAZ77321.1	unnamed protein product	Lupinus luteus	CBD28206.1

TRINITY_DN11157_c0_g2_i5_4	2,72E-121	349	XP_018848970.1	phospho-2-dehydro-3-deoxyheptonate aldolase 1, chloroplastic-like	Juglans regia	XP_018858624.1
TRINITY_DN8090_c0_g3_i1_2	1,14E-94	280	ONI32925.1	hypothetical protein PRUPE_1G394300	Prunus persica	XP_007223519.1
TRINITY_DN5532_c0_g1_i1_3	0	796	XP_018857848.1	ATP-citrate synthase alpha chain protein 2	Juglans regia	XP_018805227.1
TRINITY_DN8331_c0_g2_i1_3	9,82E-58	187	XP_015933877.1	remorin	Arachis duranensis	XP_016178691.1
TRINITY_DN7840_c1_g1_i1_1	5,63E-103	313	XP_008219827.1	aspartate--tRNA ligase 2, cytoplasmic	Prunus mume	KYP72364.1
TRINITY_DN1523_c0_g1_i1_1	0	772	ONH94961.1	hypothetical protein PRUPE_7G042400	Prunus persica	XP_007202012.1
TRINITY_DN14177_c0_g1_i1_3	4,66E-39	140	XP_018822930.1	glycerol-3-phosphate dehydrogenase SDP6, mitochondrial-like	Juglans regia	XP_018851614.1
TRINITY_DN10869_c1_g1_i2_5	1,77E-139	395	XP_018850618.1	thaumatin-like protein 1	Juglans regia	XP_018851425.1
TRINITY_DN5473_c0_g1_i1_5	0	514	XP_018842494.1	uncharacterized protein LOC109007319	Juglans regia	ONH94022.1
TRINITY_DN21224_c0_g1_i1_2	1,15E-54	185	XP_018814176.1	mitochondrial Rho GTPase 1-like isoform X2	Juglans regia	XP_018814175.1
TRINITY_DN6919_c0_g2_i1_3	3,17E-56	185	XP_018825658.1	probable pectinesterase 67	Juglans regia	KYP40464.1
TRINITY_DN6224_c0_g1_i1_1	0	771	XP_004486807.1	serine/threonine protein phosphatase 2A 55 kDa regulatory subunit B beta isoform-like isoform X2	Cicer arietinum	XP_008228325.1
TRINITY_DN1121_c0_g1_i1_3	6,36E-67	207	XP_018845676.1	putative RNA methyltransferase At5g10620 isoform X2	Juglans regia	XP_019447505.1
TRINITY_DN1480_c0_g1_i1_2	2,47E-88	278	ONI00157.1	hypothetical protein PRUPE_6G071100	Prunus persica	XP_020420760.1
TRINITY_DN12167_c0_g1_i1_5	2,43E-70	223	OAY52283.1	hypothetical protein MANES_04G070800	Manihot esculenta	OAY52284.1
TRINITY_DN458_c0_g1_i1_5	6,18E-39	142	KEH28616.1	coatomer subunit beta	Medicago truncatula	XP_013454585.1
TRINITY_DN2404_c0_g1_i1_2	0	883	XP_018824574.1	E3 UFM1-protein ligase 1 homolog isoform X1	Juglans regia	XP_018824575.1
TRINITY_DN9978_c0_g1_i1_2	2,94E-68	208	XP_018826018.1	NADH dehydrogenase [ubiquinone 1] alpha subcomplex subunit 8-B-like	Juglans regia	XP_018840578.1
TRINITY_DN8843_c0_g1_i3_1	1,21E-170	483	XP_018815020.1	protein-tyrosine-phosphatase PTP1 isoform X1	Juglans regia	XP_018815022.1
TRINITY_DN6703_c0_g1_i1_2	0	536	XP_008219371.1	phosphoribosylaminoimidazole-succinocarboxamide synthase, chloroplastic	Prunus mume	XP_008338902.1
TRINITY_DN11300_c0_g1_i1_3	0	1034	XP_018809451.1	acetate/butyrate--CoA ligase AAE7, peroxisomal	Juglans regia	XP_016197951.1
TRINITY_DN3617_c0_g3_i1_5	4,38E-71	215	XP_018827356.1	bet1-like SNARE 1-1	Juglans regia	XP_020213032.1
TRINITY_DN10446_c0_g2_i1_1	0	1178	XP_018824324.1	dynamin-related protein 5A	Juglans regia	XP_004503616.1
TRINITY_DN14501_c0_g1_i1_3	1,13E-73	230	XP_018825627.1	exopolygalacturonase-like	Juglans regia	XP_018809534.1
TRINITY_DN13753_c0_g1_i1_5	1,07E-168	474	XP_009344408.1	ADP-ribosylation factor GTPase-activating protein AGD12-like	Pyrus x bretschneideri	XP_009344410.1
TRINITY_DN18831_c0_g1_i1_1	4,67E-14	69,3	XP_018805269.1	uncharacterized protein LOC108979131	Juglans regia	XP_018836814.1
TRINITY_DN7892_c0_g1_i3_1	3,57E-27	107	XP_018844545.1	omega-amidase, chloroplastic	Juglans regia	XP_008377810.1
TRINITY_DN6230_c0_g1_i1_1	4,06E-111	322	XP_018832001.1	Golgi apparatus membrane protein-like protein ECHIDNA isoform X1	Juglans regia	XP_018816227.1
TRINITY_DN18774_c0_g1_i1_4	7,02E-75	244	XP_009359468.1	protein WEAK CHLOROPLAST MOVEMENT UNDER BLUE LIGHT 1-like	Pyrus x bretschneideri	XP_008220219.1
TRINITY_DN1997_c0_g1_i1_3	1,07E-79	238	XP_018855392.1	cytochrome P450 CYP82H23-like, partial	Juglans regia	XP_018857298.1

TRINITY_DN7250_c0_g1_i1_5	1,14E-143	408	XP_018806025.1	adenylyl-sulfate kinase 3-like isoform X2	Juglans regia	XP_018806026.1
TRINITY_DN15321_c0_g1_i1_5	2,80E-42	145	KDP25182.1	hypothetical protein JCGZ_20338	Jatropha curcas	XP_012086572.1
TRINITY_DN19751_c0_g1_i1_1	2,34E-72	238	XP_018846984.1	calcium-transporting ATPase 4, plasma membrane-type-like isoform X2	Juglans regia	XP_018846983.1
TRINITY_DN3119_c0_g1_i1_5	5,76E-176	501	XP_018809797.1	eukaryotic translation initiation factor 2A	Juglans regia	XP_018809798.1
TRINITY_DN2586_c0_g2_i1_1	2,12E-43	147	OAY34831.1	hypothetical protein MANES_12G050000	Manihot esculenta	OAY34825.1
TRINITY_DN18819_c0_g1_i1_4	1,06E-77	231	XP_018821680.1	protein translation factor SUI1 homolog 1	Juglans regia	XP_018853744.1
TRINITY_DN13993_c0_g1_i1_4	2,35E-66	221	XP_018817804.1	leucine--tRNA ligase, cytoplasmic isoform X1	Juglans regia	XP_018817805.1
TRINITY_DN20785_c0_g1_i1_2	4,42E-45	154	ONH93280.1	hypothetical protein PRUPE_8G222800	Prunus persica	XP_007199901.1
TRINITY_DN11337_c0_g1_i4_2	1,75E-95	283	XP_015951555.1	uncharacterized protein LOC107476272	Arachis duranensis	KHN35544.1
TRINITY_DN8955_c0_g1_i4_2	1,77E-104	306	XP_018831621.1	germin-like protein subfamily T member 2	Juglans regia	XP_018832655.1
TRINITY_DN12162_c0_g1_i1_3	0	612	XP_018809437.1	golgin candidate 6 isoform X2	Juglans regia	XP_018809435.1
TRINITY_DN9518_c0_g2_i2_1	1,48E-43	147	XP_018817358.1	ATP-dependent Clp protease proteolytic subunit 2, mitochondrial	Juglans regia	KYP68403.1
TRINITY_DN23667_c0_g1_i1_6	2,74E-33	121	ONI16679.1	hypothetical protein PRUPE_3G115000	Prunus persica	ONI16680.1
TRINITY_DN15391_c0_g1_i1_3	2,31E-52	187	XP_018854869.1	eukaryotic translation initiation factor 4G-like isoform X1	Juglans regia	XP_018854875.1
TRINITY_DN8805_c0_g1_i2_1	0	632	XP_018821343.1	IST1 homolog	Juglans regia	XP_018809491.1
TRINITY_DN7176_c0_g1_i3_3	3,57E-88	261	AFK36986.1	unknown	Lotus japonicus	KDP31052.1
TRINITY_DN5898_c0_g1_i1_1	1,78E-54	171	XP_018830593.1	mitochondrial import inner membrane translocase subunit TIM10-like	Juglans regia	XP_018830594.1
TRINITY_DN8672_c0_g2_i1_3	7,76E-97	283	XP_018828972.1	probable prefoldin subunit 5	Juglans regia	KDP37534.1
TRINITY_DN1176_c0_g1_i1_6	1,71E-40	145	XP_008221172.1	uncharacterized protein LOC103321167 isoform X3	Prunus mume	XP_020420490.1
TRINITY_DN4088_c0_g1_i1_6	0	843	XP_018808493.1	mechanosensitive ion channel protein 1, mitochondrial	Juglans regia	XP_018808494.1
TRINITY_DN7361_c0_g1_i1_3	6,08E-69	208	XP_018852394.1	cytochrome b5	Juglans regia	OAY59358.1
TRINITY_DN6371_c0_g1_i2_5	0	619	XP_018835872.1	SEC12-like protein 2	Juglans regia	XP_018835880.1
TRINITY_DN152_c0_g1_i1_1	6,67E-132	401	XP_018837083.1	probable sucrose-phosphate synthase 2	Juglans regia	ONI28760.1
TRINITY_DN211_c0_g1_i1_2	2,00E-110	322	XP_008393051.1	ubiquitin-conjugating enzyme E2-23 kDa-like	Malus domestica	XP_008393052.1
TRINITY_DN10187_c0_g2_i3_3	0	580	XP_018840945.1	Golgi to ER traffic protein 4 homolog	Juglans regia	ONI24006.1
TRINITY_DN10966_c1_g2_i1_2	4,33E-105	314	XP_018819428.1	phenylalanine--tRNA ligase beta subunit, cytoplasmic-like	Juglans regia	XP_018806301.1
TRINITY_DN17047_c0_g1_i1_4	8,33E-88	274	XP_018851837.1	outer envelope protein 61	Juglans regia	XP_008230607.1
TRINITY_DN2953_c0_g1_i1_6	3,38E-143	447	XP_018850497.1	uncharacterized protein LOC109013033	Juglans regia	XP_018850498.1
TRINITY_DN10123_c0_g1_i1_2	0	708	XP_018829285.1	tyrosine--tRNA ligase 1, cytoplasmic	Juglans regia	KOM45120.1
TRINITY_DN6691_c0_g1_i1_3	0	654	XP_018849759.1	ALG-2 interacting protein X-like	Juglans regia	XP_018849760.1
TRINITY_DN9992_c0_g1_i2_2	1,12E-111	323	XP_018844469.1	N-alpha-acetyltransferase daf-31	Juglans regia	XP_016171058.1
TRINITY_DN10481_c0_g2_i1_2	3,64E-112	326	XP_018850886.1	ribulose-phosphate 3-epimerase, chloroplastic	Juglans regia	AAM19354.1
TRINITY_DN23047_c0_g1_i1_3	1,05E-25	97,8	XP_018837336.1	14 kDa zinc-binding protein	Juglans regia	ONI11561.1

TRINITY_DN12530_c0_g1_i1_3	3,04E-52	175	XP_018820769.1	probable inactive purple acid phosphatase 27 isoform X3	Juglans regia	XP_018820768.1
TRINITY_DN5479_c0_g1_i1_1	0	837	XP_018847636.1	ornithine aminotransferase, mitochondrial-like	Juglans regia	XP_018819712.1
TRINITY_DN14670_c0_g1_i1_5	7,24E-65	206	ACU18645.1	unknown	Glycine max	XP_003523980.1
TRINITY_DN7295_c0_g1_i1_1	0	721	OAY30633.1	hypothetical protein MANES_14G046600	Manihot esculenta	ONI07879.1
TRINITY_DN9388_c0_g1_i2_3	0	729	XP_018849256.1	sorting nexin 1-like isoform X1	Juglans regia	XP_018849257.1
TRINITY_DN9217_c0_g1_i2_3	0	637	XP_018830975.1	uncharacterized protein LOC108998739	Juglans regia	ONI13861.1
TRINITY_DN11220_c1_g2_i10_1	2,18E-72	223	XP_018841297.1	tropinone reductase homolog At5g06060-like	Juglans regia	XP_008223763.1
TRINITY_DN7324_c0_g1_i1_3	0	738	XP_018809755.1	katanin p60 ATPase-containing subunit A-like 2 isoform X2	Juglans regia	XP_018809754.1
TRINITY_DN8489_c0_g2_i1_1	1,07E-85	260	KDP26135.1	hypothetical protein JCGZ_22236	Jatropha curcas	XP_012086081.1
TRINITY_DN9496_c0_g2_i1_6	4,17E-106	308	XP_018829252.1	uncharacterized protein LOC108997431	Juglans regia	XP_008390244.1
TRINITY_DN8940_c0_g2_i1_4	1,44E-88	262	XP_018817485.1	uncharacterized protein LOC108988625	Juglans regia	ONI10985.1
TRINITY_DN2829_c0_g1_i1_4	1,88E-180	504	XP_018812633.1	haloacid dehalogenase-like hydrolase domain-containing protein At3g48420	Juglans regia	XP_018812634.1
TRINITY_DN8775_c0_g1_i1_6	0	717	ONI03611.1	hypothetical protein PRUPE_6G269000	Prunus persica	XP_007205244.1
TRINITY_DN4667_c0_g1_i2_3	3,98E-64	198	XP_018819521.1	yrdC domain-containing protein, mitochondrial isoform X4	Juglans regia	XP_018819522.1
TRINITY_DN22872_c0_g1_i1_1	1,26E-53	179	XP_007153579.1	hypothetical protein PHAVU_003G0475001g, partial	Phaseolus vulgaris	XP_007153579.1
TRINITY_DN19824_c0_g1_i1_3	1,38E-108	317	KDP24985.1	hypothetical protein JCGZ_24314	Jatropha curcas	XP_012087520.2
TRINITY_DN9699_c0_g1_i1_4	0	676	XP_018813478.1	ribose-phosphate pyrophosphokinase 4-like isoform X1	Juglans regia	ONI30368.1
TRINITY_DN3755_c0_g2_i1_3	0	1023	XP_018808112.1	zinc-binding alcohol dehydrogenase domain-containing protein 2 isoform X1	Juglans regia	XP_018808113.1
TRINITY_DN11202_c0_g1_i2_2	4,66E-61	190	XP_018829244.1	NADH dehydrogenase [ubiquinone 1] alpha subcomplex subunit 2-like	Juglans regia	XP_018841602.1
TRINITY_DN6447_c0_g1_i1_4	0	800	XP_018841179.1	allantoate deiminase	Juglans regia	XP_012088571.1
TRINITY_DN5808_c0_g1_i1_2	0	919	XP_018844988.1	nicotinate phosphoribosyltransferase 1	Juglans regia	OIW09714.1
TRINITY_DN10647_c0_g2_i1_5	2,37E-109	321	XP_008221708.1	glutathione S-transferase U17-like	Prunus mume	XP_018819149.1
TRINITY_DN14457_c0_g1_i1_4	7,15E-116	353	XP_018824311.1	importin subunit beta-1-like	Juglans regia	XP_018835204.1
TRINITY_DN7706_c0_g1_i1_3	4,45E-171	481	XP_018819194.1	40S ribosomal protein S4-3	Juglans regia	AES86765.1
TRINITY_DN2695_c0_g1_i1_6	2,35E-136	394	XP_018824898.1	glycerophosphodiester phosphodiesterase GDPD6	Juglans regia	XP_008374638.1
TRINITY_DN3350_c0_g1_i1_2	5,68E-51	166	XP_018847236.1	cell wall / vacuolar inhibitor of fructosidase 1-like	Juglans regia	KHN03269.1
TRINITY_DN11297_c1_g1_i1_2	1,98E-106	313	XP_018828854.1	protein CREG1	Juglans regia	ONI19412.1
TRINITY_DN11354_c1_g1_i3_1	0	546	XP_018806278.1	hsp70-binding protein 1	Juglans regia	KDP35664.1
TRINITY_DN12695_c0_g2_i1_3	8,51E-179	513	XP_018835532.1	multiple organellar RNA editing factor 1, mitochondrial	Juglans regia	XP_009355259.1
TRINITY_DN12034_c0_g1_i1_1	1,29E-101	308	XP_018808625.1	serine/threonine-protein phosphatase 5 isoform X1	Juglans regia	XP_018808633.1

TRINITY_DN4302_c0_g1_i1_3	0	817	XP_018852306.1	endoglucanase 10	Juglans regia	OAY50597.1
TRINITY_DN18986_c0_g1_i1_2	7,02E-54	179	KOM31605.1	hypothetical protein LR48_Vigan01g116000	Vigna angularis	XP_018834214.1
TRINITY_DN16321_c0_g1_i1_6	2,62E-62	209	XP_018846305.1	BEACH domain-containing protein C2 isoform X2	Juglans regia	XP_018846304.1
TRINITY_DN10277_c0_g1_i1_3	0	597	XP_016181742.1	uncharacterized protein LOC107623862	Arachis ipaensis	XP_015943541.1
TRINITY_DN16791_c0_g1_i1_4	2,28E-32	122	XP_018848119.1	acid beta-fructofuranosidase-like	Juglans regia	XP_018844424.1
TRINITY_DN7314_c0_g1_i1_1	6,74E-56	180	XP_018839925.1	dormancy-associated protein homolog 4 isoform X1	Juglans regia	XP_018839926.1
TRINITY_DN11345_c0_g1_i1_5	4,08E-46	150	XP_018830962.1	uncharacterized protein LOC108998731 isoform X1	Juglans regia	XP_017192091.1
TRINITY_DN23429_c0_g1_i1_1	1,00E-42	151	XP_018816462.1	protein transport protein Sec24-like At3g07100	Juglans regia	XP_018816463.1
TRINITY_DN4338_c0_g2_i1_1	4,64E-123	377	XP_018843379.1	protein ROOT HAIR DEFECTIVE 3-like	Juglans regia	XP_018859440.1
TRINITY_DN13879_c0_g1_i1_4	1,13E-74	231	XP_018825514.1	uncharacterized protein LOC108994665	Juglans regia	KDP43637.1
TRINITY_DN1790_c0_g1_i1_2	8,02E-51	169	OAY58248.1	hypothetical protein MANES_02G161800	Manihot esculenta	KDP32782.1
TRINITY_DN5067_c0_g1_i1_3	2,12E-168	478	XP_018813685.1	protein CIA1-like	Juglans regia	XP_018813685.1
TRINITY_DN9550_c0_g1_i1_3	0	640	XP_018859242.1	flowering locus K homology domain-like	Juglans regia	XP_008218287.1
TRINITY_DN5828_c0_g1_i2_4	1,49E-99	298	XP_018856589.1	vacuolar protein sorting-associated protein 20 homolog 2-like	Juglans regia	XP_018827788.1
TRINITY_DN20109_c0_g1_i1_4	1,25E-61	201	XP_018852796.1	urease-like, partial	Juglans regia	XP_018857605.1
TRINITY_DN11375_c0_g1_i1_1	1,29E-65	202	XP_018854926.1	uncharacterized protein LOC109017055	Juglans regia	XP_018819075.1
TRINITY_DN4236_c0_g1_i1_1	8,46E-25	98,2	XP_018810319.1	uncharacterized protein LOC108983212	Juglans regia	XP_009340616.1
TRINITY_DN4156_c0_g1_i1_1	1,47E-48	156	KDP41325.1	hypothetical protein JCGZ_15732	Jatropha curcas	XP_012067811.1
TRINITY_DN11786_c0_g1_i1_3	2,17E-91	286	XP_018811352.1	heat shock 70 kDa protein 16-like	Juglans regia	XP_018811359.1
TRINITY_DN15397_c0_g1_i1_3	1,04E-42	143	XP_008372179.1	bifunctional aspartokinase/homoserine dehydrogenase 1, chloroplastic-like	Malus domestica	KOM31605.1
TRINITY_DN5555_c0_g1_i2_1	0	996	AIR95612.1	4-coumarate:CoA ligase-like protein	Betula pendula	XP_018858801.1
TRINITY_DN6669_c0_g2_i2_2	6,22E-148	418	XP_018859721.1	uncharacterized protein LOC109021532	Juglans regia	XP_020218942.1
TRINITY_DN5818_c0_g1_i1_3	2,21E-123	355	XP_018805705.1	cysteine synthase	Juglans regia	OAY44160.1
TRINITY_DN10622_c0_g1_i3_1	0	902	XP_018819971.1	KH domain-containing protein HEN4-like isoform X1	Juglans regia	XP_018819972.1
TRINITY_DN6444_c0_g1_i1_1	7,62E-69	219	XP_018852566.1	uncharacterized protein LOC109014492 isoform X1	Juglans regia	XP_018836633.1
TRINITY_DN8167_c0_g1_i2_2	0	692	KDP33409.1	hypothetical protein JCGZ_06980	Jatropha curcas	XP_018845609.1
TRINITY_DN10005_c0_g1_i2_3	3,60E-37	127	XP_018852254.1	glycine-rich RNA-binding protein 4, mitochondrial	Juglans regia	XP_009355558.1
TRINITY_DN18506_c0_g1_i1_1	5,32E-40	137	XP_018821736.1	uncharacterized protein At2g39795, mitochondrial-like	Juglans regia	XP_015931449.1
TRINITY_DN9802_c0_g1_i3_2	6,47E-102	303	XP_018841149.1	pectinesterase 31 isoform X1	Juglans regia	XP_008230805.1
TRINITY_DN11201_c1_g1_i1_2	0	585	XP_008382818.1	very-long-chain enoyl-CoA reductase	Malus domestica	XP_018814522.1
TRINITY_DN2574_c0_g1_i1_2	1,28E-78	245	XP_018844777.1	beta-glucuronosyltransferase GlcAT14B	Juglans regia	KDP45456.1
TRINITY_DN2926_c0_g2_i1_1	9,90E-66	207	XP_008353737.1	ketol-acid reductoisomerase, chloroplastic	Malus domestica	XP_018838530.1
TRINITY_DN1172_c0_g1_i1_3	5,20E-57	182	XP_018831728.1	CBL-interacting serine/threonine-protein kinase 9-like isoform X5	Juglans regia	XP_018831726.1

TRINITY_DN15441_c0_g1_i1_4	1,06E-69	234	XP_008232710.1	BEACH domain-containing protein C2	Prunus mume	XP_016650092.1
TRINITY_DN2072_c0_g1_i1_5	5,36E-125	379	XP_018846984.1	calcium-transporting ATPase 4, plasma membrane-type-like isoform X2	Juglans regia	XP_018846983.1
TRINITY_DN11308_c0_g1_i1_4	9,38E-104	301	XP_007147409.1	hypothetical protein PHAVU_006G122000g	Phaseolus vulgaris	ESW19403.1
TRINITY_DN11604_c0_g1_i4_3	1,64E-157	444	XP_018838664.1	putative methyltransferase DDB_G0268948	Juglans regia	XP_018807016.1
TRINITY_DN6973_c0_g1_i2_3	0	680	XP_018811852.1	1-acyl-sn-glycerol-3-phosphate acyltransferase 2	Juglans regia	BAE48660.1
TRINITY_DN19024_c0_g1_i1_1	1,04E-115	356	KDP45840.1	hypothetical protein JCGZ_17447	Jatropha curcas	XP_012079840.1
TRINITY_DN8174_c0_g1_i1_3	1,44E-141	407	XP_018828995.1	ER membrane protein complex subunit 10	Juglans regia	KDP26890.1
TRINITY_DN6495_c0_g1_i1_1	0	585	XP_018815300.1	amidophosphoribosyltransferase, chloroplastic	Juglans regia	XP_018841407.1
TRINITY_DN14955_c0_g1_i1_1	8,01E-35	128	XP_008361531.1	bifunctional aspartokinase/homoserine dehydrogenase 1, chloroplastic-like isoform X2	Malus domestica	XP_008361530.1
TRINITY_DN5794_c0_g1_i3_3	0	781	XP_008239702.1	mannose-1-phosphate guanyltransferase alpha	Prunus mume	ONI08471.1
TRINITY_DN5657_c0_g1_i1_3	7,75E-156	441	XP_018829841.1	translin-like	Juglans regia	XP_008243962.1
TRINITY_DN20134_c0_g1_i1_2	9,06E-25	100	XP_018825160.1	ubiquitin-like modifier-activating enzyme 5	Juglans regia	XP_009368530.1
TRINITY_DN5823_c1_g1_i1_3	8,40E-39	139	XP_018806543.1	isoleucine--tRNA ligase, cytoplasmic	Juglans regia	KHN05507.1
TRINITY_DN10611_c0_g2_i1_3	0	876	XP_018822003.1	probable serine protease EDA2	Juglans regia	OAY60835.1
TRINITY_DN8028_c1_g2_i2_1	7,45E-41	143	ONI09830.1	hypothetical protein PRUPE_4G012100	Prunus persica	XP_007213842.1
TRINITY_DN20414_c0_g1_i1_1	3,64E-89	268	XP_018843094.1	uncharacterized protein LOC109007740 isoform X2	Juglans regia	XP_018843093.1
TRINITY_DN18416_c0_g1_i1_1	1,63E-125	364	XP_018834855.1	syntaxin-22-like	Juglans regia	KYP63599.1
TRINITY_DN5396_c0_g2_i1_1	3,77E-38	134	XP_018843535.1	uncharacterized protein LOC109008046	Juglans regia	XP_018832195.1
TRINITY_DN4301_c0_g1_i1_1	2,10E-120	352	XP_018814804.1	protein phosphatase 1 regulatory subunit pprA	Juglans regia	XP_004503473.1
TRINITY_DN6535_c0_g1_i1_1	1,21E-100	308	XP_018848856.1	DEAD-box ATP-dependent RNA helicase 37-like	Juglans regia	XP_018848857.1
TRINITY_DN5580_c0_g1_i1_4	0	674	XP_018815364.1	SH3 domain-containing protein 2-like	Juglans regia	XP_018841364.1
TRINITY_DN10847_c0_g1_i3_3	7,95E-92	269	XP_018835110.1	coatomer subunit zeta-2-like isoform X2	Juglans regia	XP_018835109.1
TRINITY_DN14525_c0_g1_i1_6	4,39E-116	337	ANG56496.1	cinnamoyl-CoA reductase	Hevea brasiliensis subsp. brasiliensis	OAY46635.1
TRINITY_DN10966_c1_g1_i1_2	2,40E-167	483	XP_018814927.1	phenylalanine--tRNA ligase beta subunit, cytoplasmic-like	Juglans regia	XP_018806301.1
TRINITY_DN12386_c0_g1_i1_4	0	620	XP_018805889.1	uncharacterized protein LOC108979636	Juglans regia	XP_016650601.1
TRINITY_DN3579_c0_g1_i1_4	4,07E-47	153	XP_008343872.1	acyl-coenzyme A thioesterase 13-like	Malus domestica	XP_008383304.1
TRINITY_DN19791_c0_g1_i1_5	1,14E-58	199	XP_018840319.1	coatomer subunit alpha-1-like	Juglans regia	XP_018840320.1
TRINITY_DN10085_c0_g1_i1_3	0	791	XP_018823182.1	serine/threonine-protein kinase STY8-like isoform X1	Juglans regia	XP_018836819.1
TRINITY_DN5782_c0_g1_i1_1	1,51E-91	268	XP_018823137.1	ferredoxin-thioredoxin reductase catalytic chain, chloroplastic	Juglans regia	XP_008230669.1
TRINITY_DN13590_c0_g1_i1_3	4,04E-150	434	XP_018832601.1	ABC transporter G family member 40-like, partial	Juglans regia	XP_018823393.1

TRINITY_DN1136_c0_g2_i1_1	5,48E-106	327	XP_018809439.1	golgin candidate 6 isoform X4	Juglans regia	XP_018809438.1
TRINITY_DN9839_c0_g1_i1_1	0	1237	XP_018835197.1	ABC transporter F family member 3	Juglans regia	OAY56307.1
TRINITY_DN3828_c0_g1_i2_1	7,93E-133	383	XP_018810997.1	electron transfer flavoprotein subunit alpha, mitochondrial	Juglans regia	ONI13147.1
TRINITY_DN800_c0_g1_i1_1	1,47E-61	202	OAY23211.1	hypothetical protein MANES_18G060600	Manihot esculenta	OAY23212.1
TRINITY_DN10682_c0_g1_i2_5	0	659	XP_018812300.1	uncharacterized protein LOC108984712	Juglans regia	ONI30704.1
TRINITY_DN11406_c0_g2_i1_5	0	644	XP_018843822.1	probable protein phosphatase 2C 60 isoform X1	Juglans regia	XP_018843823.1
TRINITY_DN9265_c0_g1_i1_4	1,48E-123	358	XP_018825622.1	heterogeneous nuclear ribonucleoprotein 1	Juglans regia	KDP39313.1
TRINITY_DN3622_c0_g1_i1_2	0	931	XP_018819003.1	uncharacterized protein LOC108989738 isoform X1	Juglans regia	XP_018819004.1
TRINITY_DN4087_c0_g2_i1_1	2,42E-101	305	OIV91038.1	hypothetical protein TanjilG_16998	Lupinus angustifolius	GAU40565.1
TRINITY_DN10280_c0_g2_i1_3	2,81E-59	187	XP_018850000.1	uncharacterized protein LOC109012689	Juglans regia	XP_008371919.1
TRINITY_DN17659_c0_g1_i1_1	1,13E-43	153	XP_018827094.1	dihydroxy-acid dehydratase, chloroplastic-like	Juglans regia	AFK41004.1
TRINITY_DN391_c0_g2_i1_3	5,30E-45	163	OAY25488.1	hypothetical protein MANES_17G099000	Manihot esculenta	OAY25489.1
TRINITY_DN18625_c0_g1_i1_3	6,48E-53	182	XP_018835049.1	uncharacterized protein LOC109001971 isoform X2	Juglans regia	XP_018835048.1
TRINITY_DN15558_c0_g1_i1_3	1,64E-98	292	XP_018817511.1	protein ROOT HAIR DEFECTIVE 3-like	Juglans regia	XP_020224988.1
TRINITY_DN8990_c0_g1_i6_4	8,61E-125	366	XP_018840513.1	ATP-dependent (S)-NAD(P)H-hydrate dehydratase isoform X2	Juglans regia	XP_018840512.1
TRINITY_DN9713_c0_g1_i1_2	2,51E-180	518	XP_018820105.1	uncharacterized protein LOC108990561	Juglans regia	ONI26834.1
TRINITY_DN4_c0_g2_i1_2	1,01E-38	139	XP_016179779.2	clathrin heavy chain 1	Arachis ipaensis	OAY38388.1
TRINITY_DN3956_c0_g2_i1_1	1,87E-94	300	OIW18588.1	hypothetical protein TanjilG_13340	Lupinus angustifolius	XP_019452623.1
TRINITY_DN2951_c0_g1_i1_3	7,74E-79	233	XP_018807777.1	uncharacterized protein LOC108981148	Juglans regia	XP_012073843.1
TRINITY_DN8715_c0_g1_i2_3	9,08E-132	374	XP_008244363.1	trafficking protein particle complex subunit 3	Prunus mume	XP_008345058.1
TRINITY_DN11521_c0_g3_i1_1	1,46E-64	202	KDP42130.1	hypothetical protein JCGZ_01918	Jatropha curcas	XP_012067122.1
TRINITY_DN7431_c0_g1_i1_3	1,13E-103	306	XP_018842322.1	peptidyl-prolyl cis-trans isomerase CYP21-4-like isoform X1	Juglans regia	XP_018822168.1
TRINITY_DN20738_c0_g1_i1_3	5,19E-44	154	XP_018846842.1	long chain acyl-CoA synthetase 6, peroxisomal-like	Juglans regia	XP_018840476.1
TRINITY_DN11007_c0_g1_i2_1	0	888	XP_018807730.1	3-phosphoshikimate 1-carboxyvinyltransferase 2	Juglans regia	ONI22671.1
TRINITY_DN18675_c0_g1_i1_5	5,20E-81	248	XP_018812975.1	mitochondrial import inner membrane translocase subunit TIM50	Juglans regia	XP_018825124.1
TRINITY_DN4569_c0_g1_i2_2	6,37E-93	288	XP_018829629.1	la-related protein 1C-like	Juglans regia	KDP23970.1
TRINITY_DN4303_c0_g1_i1_5	3,13E-140	407	XP_018821634.1	chaperonin CPN60-like 2, mitochondrial isoform X3	Juglans regia	XP_018821632.1
TRINITY_DN11099_c0_g1_i3_2	0	572	XP_018845677.1	uncharacterized protein At2g24330	Juglans regia	XP_018813351.1
TRINITY_DN5386_c0_g1_i1_2	4,17E-136	414	XP_018808480.1	AP-1 complex subunit gamma-2-like isoform X1	Juglans regia	XP_018808481.1
TRINITY_DN3521_c0_g1_i1_6	0	561	XP_018807462.1	membrane-associated 30 kDa protein, chloroplastic-like	Juglans regia	XP_018806924.1

TRINITY_DN13705_c0_g1_i1_5	2,09E-180	504	ONI06351.1	hypothetical protein PRUPE_5G055300	Prunus persica	XP_007209414.1
TRINITY_DN3201_c0_g1_i1_6	0	757	KHN21828.1	Endoplasmic reticulum-Golgi intermediate compartment protein 3	Glycine soja	KRH16700.1
TRINITY_DN9124_c0_g4_i1_6	0	565	XP_018841131.1	protein AIG1-like	Juglans regia	XP_012073509.1
TRINITY_DN10878_c0_g1_i1_2	0	1154	XP_018817683.1	probable methyltransferase PMT2	Juglans regia	XP_018845206.1
TRINITY_DN8588_c0_g1_i3_2	3,33E-170	501	XP_007141284.1	hypothetical protein PHAVU_008G183200g	Phaseolus vulgaris	ESW13278.1
TRINITY_DN8864_c0_g1_i1_1	6,90E-118	350	XP_018859548.1	protein AUXIN RESPONSE 4	Juglans regia	XP_018859549.1
TRINITY_DN18025_c0_g1_i1_5	4,50E-39	131	XP_018830814.1	mitochondrial import inner membrane translocase subunit TIM8	Juglans regia	XP_008239525.1
TRINITY_DN15533_c0_g1_i1_2	1,38E-125	381	XP_018831147.1	dynamin-2A-like	Juglans regia	XP_018834193.1
TRINITY_DN17372_c0_g1_i1_4	0	570	XP_018848560.1	uncharacterized protein LOC109011716	Juglans regia	ONI12261.1
TRINITY_DN10448_c0_g1_i2_3	0	731	XP_018815772.1	signal peptide peptidase-like 3	Juglans regia	XP_018824430.1
TRINITY_DN2556_c0_g1_i2_1	7,85E-166	476	XP_018834738.1	dnaJ homolog subfamily B member 1	Juglans regia	ONI34180.1
TRINITY_DN11115_c0_g1_i1_2	0	706	XP_018813560.1	putative glycosyltransferase 7	Juglans regia	KRH28334.1
TRINITY_DN6126_c0_g1_i2_6	8,67E-179	503	XP_018814173.1	COP9 signalosome complex subunit 6a	Juglans regia	KDP29518.1
TRINITY_DN18060_c0_g1_i1_4	1,45E-112	327	KYP71807.1	Auxin-induced protein PCNT115 family, partial	Cajanus cajan	XP_020212112.1
TRINITY_DN8332_c0_g1_i1_1	4,05E-113	340	XP_018837506.1	glucosidase 2 subunit beta	Juglans regia	XP_017191383.1
TRINITY_DN7043_c0_g3_i1_3	0	632	XP_018823086.1	probable bifunctional methylthioribulose-1-phosphate dehydratase/enolase-phosphatase E1 isoform X1	Juglans regia	XP_018823094.1
TRINITY_DN15047_c0_g1_i1_2	7,09E-70	217	KRH00278.1	hypothetical protein GLYMA_18G203300	Glycine max	KHN20313.1
TRINITY_DN4679_c0_g1_i1_4	2,16E-109	322	XP_018812502.1	putative SNAP25 homologous protein SNAP30	Juglans regia	XP_018859370.1
TRINITY_DN5533_c1_g1_i1_2	2,22E-128	381	XP_018847198.1	protein CASP	Juglans regia	XP_007152793.1
TRINITY_DN3362_c0_g1_i1_3	9,66E-78	239	XP_018846568.1	probable N-acetyl-gamma-glutamyl-phosphate reductase, chloroplastic	Juglans regia	OAY29429.1
TRINITY_DN11453_c1_g2_i1_1	0	1081	KDP44499.1	hypothetical protein JCGZ_16332	Jatropha curcas	XP_012093127.1
TRINITY_DN21448_c0_g1_i1_2	1,06E-30	117	XP_018856633.1	rop guanine nucleotide exchange factor 1-like isoform X2	Juglans regia	XP_018856632.1
TRINITY_DN4482_c0_g1_i2_6	1,09E-36	129	ACJ84157.1	unknown	Medicago truncatula	AFK34625.1
TRINITY_DN3062_c1_g1_i1_5	1,15E-69	219	AFK33869.1	unknown	Lotus japonicus	KRH51322.1
TRINITY_DN21074_c0_g1_i1_5	9,34E-41	145	XP_018842420.1	uncharacterized protein LOC109007267	Juglans regia	XP_018842421.1
TRINITY_DN6202_c0_g1_i1_4	1,93E-95	285	XP_018857622.1	polyadenylate-binding protein RBP45-like	Juglans regia	XP_018857622.1
TRINITY_DN9665_c1_g1_i2_1	1,71E-128	382	XP_018810128.1	D-3-phosphoglycerate dehydrogenase 2, chloroplastic-like	Juglans regia	OIW16971.1
TRINITY_DN23089_c0_g1_i1_2	8,64E-28	108	KDP44879.1	hypothetical protein JCGZ_01379	Jatropha curcas	ADK37758.1
TRINITY_DN4752_c0_g1_i1_6	0	559	XP_018823596.1	TPR repeat-containing thioredoxin TDX	Juglans regia	ONI09381.1
TRINITY_DN6323_c0_g1_i1_4	0	571	XP_018832755.1	putative GPI-anchor transamidase	Juglans regia	XP_019417178.1
TRINITY_DN7547_c0_g1_i1_2	1,74E-106	308	AFK39823.1	unknown	Lotus japonicus	BAN42598.1
TRINITY_DN11503_c0_g1_i5_1	2,54E-144	412	XP_018835591.1	2-hydroxyisoflavanone dehydratase-like	Juglans regia	XP_018835592.1
TRINITY_DN6410_c0_g2_i1_3	3,39E-69	214	XP_018828731.1	60S ribosomal protein L24-like	Juglans regia	XP_018811954.1
TRINITY_DN17585_c0_g1_i1_4	2,79E-127	369	XP_018845112.1	phosducin-like protein 3	Juglans regia	KDP46320.1
TRINITY_DN7272_c0_g1_i2_2	3,34E-85	265	XP_018809797.1	eukaryotic translation initiation factor 2A	Juglans regia	XP_018809798.1

TRINITY_DN8313_c0_g1_i1_1	5,05E-24	95,9	XP_018841597.1	uncharacterized protein LOC109006689	Juglans regia	XP_018829186.1
TRINITY_DN10899_c1_g1_i9_2	3,42E-63	200	XP_018848462.1	B-cell receptor-associated protein 31	Juglans regia	AFK41440.1
TRINITY_DN10964_c0_g2_i1_1	1,55E-30	108	XP_008233544.1	60S ribosomal protein L35	Prunus mume	ONI24141.1
TRINITY_DN5766_c0_g1_i1_2	2,22E-142	407	XP_018849008.1	syntaxin-52-like isoform X1	Juglans regia	XP_018849009.1
TRINITY_DN16709_c0_g1_i1_5	2,06E-30	114	XP_020422794.1	phosphoribosylaminoimidazole carboxylase, chloroplastic isoform X4	Prunus persica	XP_008218293.1
TRINITY_DN20234_c0_g1_i1_2	1,56E-46	162	XP_018858135.1	LOW QUALITY PROTEIN: phospholipase A-2-activating protein	Juglans regia	KDP46216.1
TRINITY_DN13627_c0_g1_i1_4	2,42E-118	358	XP_018831158.1	conserved oligomeric Golgi complex subunit 3	Juglans regia	XP_016651945.1
TRINITY_DN22360_c0_g1_i1_5	1,59E-34	129	XP_018830674.1	uncharacterized protein LOC108998567 isoform X2	Juglans regia	XP_018830673.1
TRINITY_DN5465_c0_g1_i1_6	2,89E-50	160	XP_018822177.1	uncharacterized protein LOC108992164	Juglans regia	OAY23399.1
TRINITY_DN14137_c1_g1_i1_2	2,93E-70	221	OAY48825.1	hypothetical protein MANES_05G008200	Manihot esculenta	OAY48824.1
TRINITY_DN4218_c0_g1_i1_3	1,01E-154	445	OAY36457.1	hypothetical protein MANES_11G022700	Manihot esculenta	XP_018835103.1
TRINITY_DN405_c0_g2_i1_3	1,14E-161	456	XP_018837929.1	uncharacterized protein LOC109004012	Juglans regia	XP_018837016.1
TRINITY_DN2745_c0_g1_i1_1	2,02E-117	340	XP_018852251.1	bifunctional pinoresinol-lariciresinol reductase-like	Juglans regia	AFK36279.1
TRINITY_DN15009_c0_g1_i1_3	6,30E-137	394	KDP36668.1	hypothetical protein JCGZ_07886	Jatropha curcas	XP_012073897.1
TRINITY_DN20316_c0_g1_i1_4	1,77E-70	225	XP_018829351.1	uncharacterized protein LOC108997478 isoform X2	Juglans regia	XP_018829342.1
TRINITY_DN11294_c0_g1_i2_1	0	526	XP_018842849.1	PP2A regulatory subunit TAP46-like isoform X1	Juglans regia	XP_007136517.1
TRINITY_DN19054_c0_g1_i1_3	1,50E-133	383	XP_018818642.1	RNA polymerase II-associated protein 3	Juglans regia	OAY27988.1
TRINITY_DN4034_c0_g2_i1_6	4,16E-70	229	XP_018843108.1	protein lsd90	Juglans regia	XP_007157244.1
TRINITY_DN12290_c0_g1_i1_4	5,32E-140	413	XP_018809084.1	delta-1-pyrroline-5-carboxylate synthase isoform X2	Juglans regia	XP_018809083.1
TRINITY_DN21049_c0_g1_i1_5	8,44E-16	72	XP_014522582.1	uncharacterized protein LOC106779065	Vigna radiata var. radiata	ONH89732.1
TRINITY_DN10192_c0_g2_i2_4	0	626	XP_012081268.1	uncharacterized protein LOC105641356	Jatropha curcas	KDP30151.1
TRINITY_DN5313_c0_g1_i1_6	0	557	XP_018845293.1	outer envelope pore protein 37, chloroplastic-like	Juglans regia	XP_018839352.1
TRINITY_DN1722_c0_g1_i1_6	8,33E-08	50,8	AEC03320.1	thioredoxin H-type 5	Hevea brasiliensis	ACU14710.1
TRINITY_DN594_c0_g1_i1_2	0	543	XP_008222207.1	glucose-6-phosphate 1-dehydrogenase, chloroplastic	Prunus mume	ONI29917.1
TRINITY_DN14750_c0_g1_i1_3	4,10E-48	166	XP_007142735.1	hypothetical protein PHAVU_007G012500g	Phaseolus vulgaris	ESW14729.1
TRINITY_DN10152_c0_g1_i1_3	5,45E-44	145	OAY45736.1	hypothetical protein MANES_07G087100	Manihot esculenta	OAY51398.1
TRINITY_DN7940_c0_g1_i2_6	6,75E-110	320	KDP29643.1	hypothetical protein JCGZ_18805	Jatropha curcas	OAY52335.1
TRINITY_DN3239_c0_g2_i1_3	2,49E-36	136	XP_018817247.1	calcium-transporting ATPase 1, endoplasmic reticulum-type-like	Juglans regia	OAY37891.1
TRINITY_DN4761_c0_g1_i1_3	5,35E-148	422	XP_018821662.1	desumoylating isopeptidase 1-like	Juglans regia	XP_018821664.1
TRINITY_DN8530_c0_g1_i3_3	1,50E-152	443	KDP42293.1	hypothetical protein JCGZ_01617	Jatropha curcas	XP_012066878.1
TRINITY_DN16028_c0_g1_i1_6	7,33E-94	293	XP_018846155.1	vacuolar protein sorting-associated protein 51 homolog	Juglans regia	ONI05445.1

TRINITY_DN515_c0_g1_i1_1	2,74E-48	157	OAY22813.1	hypothetical protein MANES_18G027900	Manihot esculenta	XP_007225947.2
TRINITY_DN9271_c0_g1_i2_1	1,24E-65	201	AFK35102.1	unknown	Lotus japonicus	AFK33904.1
TRINITY_DN9769_c0_g1_i2_3	0	864	XP_018851305.1	switch-associated protein 70	Juglans regia	XP_008229573.1
TRINITY_DN17789_c0_g1_i1_2	0	576	XP_018806102.1	peptidyl-prolyl cis-trans isomerase CYP40-like	Juglans regia	XP_009350556.1
TRINITY_DN17147_c0_g3_i1_3	1,14E-122	350	KDP23628.1	hypothetical protein JCGZ_23461	Jatropha curcas	XP_012089213.1
TRINITY_DN18723_c0_g1_i1_3	6,70E-81	243	XP_018849537.1	mitochondrial outer membrane protein porin 2-like isoform X2	Juglans regia	XP_018849534.1
TRINITY_DN13968_c0_g1_i1_1	0	755	XP_018825846.1	enhancer of mRNA-decapping protein 4-like	Juglans regia	KDP32637.1
TRINITY_DN1050_c0_g1_i1_3	0	580	KDP37591.1	hypothetical protein JCGZ_07937	Jatropha curcas	XP_012072805.1
TRINITY_DN630_c0_g1_i2_2	2,56E-118	341	XP_018813065.1	uncharacterized protein LOC108985285	Juglans regia	XP_009340998.1
TRINITY_DN10963_c0_g1_i1_3	8,72E-144	409	OAY29673.1	hypothetical protein MANES_15G163400	Manihot esculenta	XP_018847825.1
TRINITY_DN10629_c0_g1_i1_1	1,03E-104	305	XP_009347705.1	probable glutathione peroxidase 5 isoform X2	Pyrus x bretschneideri	XP_018501031.1
TRINITY_DN2614_c0_g1_i1_5	0	602	XP_018808786.1	valine--tRNA ligase, mitochondrial 1	Juglans regia	XP_018808787.1
TRINITY_DN11634_c0_g1_i3_1	0	835	XP_018845274.1	probable nucleolar protein 5-2	Juglans regia	XP_018845272.1
TRINITY_DN10531_c0_g2_i1_3	2,16E-174	490	XP_018850584.1	urease accessory protein G	Juglans regia	XP_008225465.1
TRINITY_DN2332_c0_g1_i1_2	0	938	XP_018844104.1	threonine dehydratase biosynthetic, chloroplastic	Juglans regia	XP_008241338.1
TRINITY_DN17272_c0_g1_i1_3	0	804	XP_018817811.1	putative fucosyltransferase-like proteir	Juglans regia	KOM52073.1
TRINITY_DN6275_c0_g2_i2_1	5,91E-131	377	XP_018809603.1	syntaxin-22-like	Juglans regia	XP_018809113.1
TRINITY_DN7918_c1_g1_i1_2	3,29E-141	402	XP_018833655.1	phospholipid hydroperoxide glutathione peroxidase 1, chloroplastic-like	Juglans regia	XP_018839583.1
TRINITY_DN10401_c0_g1_i2_1	9,51E-152	427	XP_018849330.1	ras-related protein Rab7	Juglans regia	CAA98171.1
TRINITY_DN6828_c0_g1_i1_3	6,11E-91	282	XP_009371822.1	eukaryotic translation initiation factor 5-like	Pyrus x bretschneideri	XP_009371823.1
TRINITY_DN3006_c0_g1_i2_2	0	1020	KDP37982.1	hypothetical protein JCGZ_04625	Jatropha curcas	XP_012072113.1
TRINITY_DN11284_c0_g1_i1_2	2,71E-14	69,3	OAY49206.1	hypothetical protein MANES_05G037500	Manihot esculenta	OAY49207.1
TRINITY_DN7192_c0_g1_i1_3	0	611	XP_018810921.1	uncharacterized protein LOC108983664	Juglans regia	ONI15001.1
TRINITY_DN8534_c0_g1_i2_3	0	588	XP_018813445.1	probable beta-D-xylosidase 6	Juglans regia	OAY33527.1
TRINITY_DN7045_c0_g1_i2_1	1,08E-137	414	XP_018824574.1	E3 UFM1-protein ligase 1 homolog isoform X1	Juglans regia	XP_015952319.1
TRINITY_DN7890_c0_g1_i3_3	6,00E-172	480	XP_018815495.1	uncharacterized protein LOC108987089	Juglans regia	XP_009344930.1
TRINITY_DN11617_c0_g1_i1_3	0	937	XP_018813477.1	glutamate--glyoxylate aminotransferase 2-like	Juglans regia	XP_018819005.1
TRINITY_DN15269_c0_g1_i1_3	2,21E-79	247	XP_007146874.1	hypothetical protein PHAVU_006G0775000g, partial	Phaseolus vulgaris	ESW18868.1
TRINITY_DN10161_c0_g1_i1_2	0	566	XP_018850255.1	D-amino-acid transaminase, chloroplastic-like	Juglans regia	XP_008226423.1
TRINITY_DN819_c0_g1_i1_5	3,37E-116	340	XP_018828199.1	aspartate aminotransferase, mitochondrial-like isoform X1	Juglans regia	XP_018828201.1
TRINITY_DN13462_c0_g1_i1_3	2,22E-69	214	XP_018809406.1	TIP41-like protein isoform X3	Juglans regia	XP_018809404.1

TRINITY_DN4339_c0_g1_i1_1	1,06E-63	208	XP_016649401.1	serine/threonine protein phosphatase 2A 55 kDa regulatory subunit B beta isoform isoform X2	Prunus mume	XP_008228323.1
TRINITY_DN19938_c0_g1_i1_2	2,28E-22	93,6	XP_008228505.1	MAR-binding filament-like protein 1-1	Prunus mume	XP_018845059.1
TRINITY_DN10594_c0_g1_i4_3	1,33E-124	355	XP_014499883.1	signal peptidase complex catalytic subunit SEC11A-like	Vigna radiata var. radiata	BAT91522.1
TRINITY_DN7751_c0_g1_i1_3	4,10E-86	257	XP_020215321.1	protein C2-DOMAIN ABA-RELATED 9-like	Cajanus cajan	ONI31760.1
TRINITY_DN9327_c0_g1_i3_2	4,88E-165	460	XP_018853705.1	Golgi SNAP receptor complex member 1-2	Juglans regia	OAY62437.1
TRINITY_DN8047_c0_g1_i1_3	4,51E-95	285	XP_018843992.1	vacuolar protein sorting-associated protein 32 homolog 2	Juglans regia	XP_018846598.1
TRINITY_DN10285_c0_g1_i1_1	4,02E-110	322	XP_018850349.1	temperature-induced lipocalin-1	Juglans regia	XP_018850350.1
TRINITY_DN8681_c0_g1_i1_3	0	691	XP_018832099.1	actin cytoskeleton-regulatory complex protein PAN1-like	Juglans regia	XP_018838276.1
TRINITY_DN5586_c0_g1_i1_1	0	855	XP_018850957.1	pentatricopeptide repeat-containing protein At1g80270, mitochondrial-like	Juglans regia	OAY40209.1
TRINITY_DN2976_c0_g1_i1_3	0	585	XP_018840746.1	putative kinase-like protein TMKL1	Juglans regia	KDP26419.1
TRINITY_DN7053_c1_g1_i1_1	1,99E-120	354	XP_018817873.1	uncharacterized protein At5g49945-like	Juglans regia	XP_018809158.1
TRINITY_DN9308_c0_g2_i1_6	0	728	XP_018851632.1	probable ADP-ribosylation factor GTPase-activating protein AGD5 isoform X1	Juglans regia	XP_018851640.1
TRINITY_DN7166_c0_g1_i1_1	1,13E-80	239	XP_008373046.1	histone deacetylase 6	Malus domestica	XP_008356371.1
TRINITY_DN17861_c0_g1_i1_6	1,75E-176	498	XP_018839810.1	S-adenosylmethionine carrier 1, chloroplastic/mitochondrial isoform X2	Juglans regia	XP_018839807.1
TRINITY_DN23265_c0_g1_i1_1	9,60E-36	128	XP_018852253.1	plastoglobulin-1, chloroplastic-like	Juglans regia	KDP30383.1
TRINITY_DN11443_c1_g1_i3_3	0	586	XP_018823000.1	formate dehydrogenase, mitochondrial	Juglans regia	XP_018828647.1
TRINITY_DN9627_c0_g2_i1_1	3,58E-53	167	dbj|GAU18587.1	hypothetical protein TSUD_124170	Trifolium subterraneum	GAU18586.1
TRINITY_DN20236_c0_g1_i1_5	1,77E-33	118	XP_018813647.1	glucosamine 6-phosphate N-acetyltransferase-like	Juglans regia	XP_018813648.1
TRINITY_DN12747_c0_g1_i1_3	6,02E-18	75,9	dbj|GAU16285.1	hypothetical protein TSUD_299170	Trifolium subterraneum	KHN23719.1
TRINITY_DN4648_c0_g1_i1_3	1,75E-51	167	XP_018859347.1	probable enoyl-CoA hydratase 1, peroxisomal	Juglans regia	XP_008369667.1
TRINITY_DN396_c0_g1_i1_1	7,17E-64	213	OAY40227.1	hypothetical protein MANES_09G005600	Manihot esculenta	XP_018826303.1
TRINITY_DN3770_c0_g1_i1_3	1,01E-115	345	XP_018826783.1	TBC1 domain family member 17-like isoform X3	Juglans regia	XP_018836649.1
TRINITY_DN7965_c1_g1_i1_2	0	602	XP_018827562.1	UDP-N-acetylglucosamine diphosphorylase 2 isoform X1	Juglans regia	XP_018827564.1
TRINITY_DN5625_c0_g2_i1_1	0	548	XP_018835418.1	protein-lysine N-methyltransferase Mettl10-like	Juglans regia	XP_018817005.1
TRINITY_DN9598_c0_g1_i1_1	3,71E-156	441	XP_018838997.1	delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase, peroxisomal	Juglans regia	XP_008222222.1
TRINITY_DN6936_c0_g1_i1_3	0	795	XP_018845130.1	lysine histidine transporter 1-like	Juglans regia	XP_018845129.1
TRINITY_DN22611_c0_g1_i1_5	1,90E-37	134	XP_018812785.1	importin subunit alpha-2-like	Juglans regia	XP_018825763.1
TRINITY_DN4497_c1_g1_i1_1	1,58E-45	147	XP_018854928.1	ubiquitin-40S ribosomal protein S27a-like	Juglans regia	XP_018805239.1

TRINITY_DN16255_c0_g2_i1_1	6,44E-171	478	XP_018843402.1	ubiquinol-cytochrome-c reductase complex assembly factor 1	Juglans regia	XP_018843404.1
TRINITY_DN3029_c0_g2_i1_3	2,41E-74	169	XP_018846418.1	acid phosphatase 1-like	Juglans regia	XP_018846418.1
TRINITY_DN7010_c0_g2_i2_5	2,58E-130	377	XP_008218725.1	60S ribosomal protein L3-2	Prunus mume	ONI36287.1
TRINITY_DN8504_c0_g1_i1_2	1,22E-25	104	XP_018848912.1	delta(12)-fatty-acid desaturase FAD2 isoform X1	Juglans regia	XP_018848914.1
TRINITY_DN3130_c0_g2_i2_1	0	702	XP_018822117.1	galacturonokinase	Juglans regia	XP_012079700.1
TRINITY_DN13283_c0_g1_i1_5	1,14E-50	174	KDP45423.1	hypothetical protein JCGZ_09672	Jatropha curcas	XP_012082412.1
TRINITY_DN3329_c0_g1_i1_6	1,29E-92	289	XP_018844641.1	far upstream element-binding protein 1 isoform X2	Juglans regia	XP_018844641.1
TRINITY_DN10602_c1_g1_i2_3	9,89E-34	118	XP_008233937.1	cytochrome b-c1 complex subunit 9-like	Prunus mume	ONI34935.1
TRINITY_DN5356_c0_g1_i1_3	0	1027	XP_018808146.1	serine/threonine-protein kinase tricorner-like isoform X1	Juglans regia	XP_018808154.1
TRINITY_DN8024_c0_g1_i1_1	9,93E-99	288	XP_018849696.1	probable NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 12	Juglans regia	XP_008234575.1
TRINITY_DN9300_c0_g1_i1_5	2,11E-175	507	XP_018845068.1	nuclear pore complex protein NUP50A-like	Juglans regia	XP_018845069.1
TRINITY_DN9177_c0_g3_i1_3	0	585	XP_007142133.1	hypothetical protein PHAVU_008G255400g	Phaseolus vulgaris	ESW14127.1
TRINITY_DN14061_c0_g1_i1_4	6,28E-59	188	XP_018845017.1	probable 2-oxoglutarate-dependent dioxygenase At3g49630 isoform X2	Juglans regia	XP_018845016.1
TRINITY_DN8441_c0_g2_i2_3	0	720	XP_018816062.1	plant UBX domain-containing protein 11	Juglans regia	XP_018816063.1
TRINITY_DN7456_c0_g2_i1_3	0	708	XP_018857484.1	mannose-1-phosphate guanylyltransferase 1	Juglans regia	XP_018857485.1
TRINITY_DN4946_c0_g2_i1_3	0	761	XP_018844867.1	anthranilate synthase alpha subunit 2, chloroplastic-like	Juglans regia	XP_004497238.1
TRINITY_DN18912_c0_g1_i1_2	0	659	XP_018848690.1	calcium-dependent protein kinase 11-like	Juglans regia	XP_018821057.1
TRINITY_DN12766_c0_g1_i1_5	1,78E-63	213	XP_018825846.1	enhancer of mRNA-decapping protein 4-like	Juglans regia	XP_016650129.1
TRINITY_DN4468_c0_g1_i1_6	0	944	XP_018858508.1	NEDD8-activating enzyme E1 regulatory subunit AXR1-like	Juglans regia	XP_018858509.1
TRINITY_DN12470_c0_g1_i1_3	0	564	XP_018815757.1	phosphoglucan, water dikinase, chloroplastic isoform X1	Juglans regia	XP_018815758.1
TRINITY_DN10609_c0_g1_i2_2	0	922	XP_018829077.1	sterol 14-demethylase	Juglans regia	XP_018841630.1
TRINITY_DN11550_c0_g1_i3_3	0	726	XP_018826883.1	beta-ureidopropionase-like	Juglans regia	XP_009368303.1
TRINITY_DN18034_c0_g1_i1_3	2,47E-47	164	XP_009359673.1	brefeldin A-inhibited guanine nucleotide-exchange protein 5-like	Pyrus x bretschneideri	XP_018503710.1
TRINITY_DN10769_c0_g1_i1_1	1,96E-172	484	XP_018839985.1	protein YIF1B-like	Juglans regia	XP_018839986.1
TRINITY_DN11604_c0_g1_i8_1	9,09E-82	246	XP_018846260.1	putative methyltransferase DDB_G0268948	Juglans regia	XP_018838664.1
TRINITY_DN11302_c0_g1_i2_1	0	886	XP_018826789.1	bifunctional purple acid phosphatase 26-like	Juglans regia	XP_008242837.1
TRINITY_DN12632_c0_g1_i1_3	4,60E-103	302	XP_018812444.1	ubiquinone biosynthesis O-methyltransferase, mitochondrial	Juglans regia	AFK39361.1
TRINITY_DN9378_c0_g1_i4_2	0	892	XP_018808947.1	synaptotagmin-2	Juglans regia	XP_018808948.1
TRINITY_DN9423_c0_g2_i1_4	1,36E-81	243	XP_018851087.1	uncharacterized protein At3g49720-like	Juglans regia	XP_018816519.1
TRINITY_DN7649_c0_g1_i2_4	2,05E-95	278	OAY48980.1	hypothetical protein MANES_05G020500	Manihot esculenta	XP_009334366.1

TRINITY_DN18448_c0_g1_i1_3	1,12E-55	178	KRG95307.1	hypothetical protein GLYMA_19G142500	Glycine max	XP_004513649.1
TRINITY_DN11658_c0_g1_i3_3	0	1732	XP_018847260.1	calcium-transporting ATPase 10, plasma membrane-type-like	Juglans regia	XP_018847261.1
TRINITY_DN18880_c0_g1_i1_1	2,44E-69	216	XP_018858382.1	protein ROOT HAIR DEFECTIVE 3-like	Juglans regia	XP_018848604.1
TRINITY_DN10400_c0_g1_i3_1	0	905	XP_018811309.1	nucleolar protein 56-like	Juglans regia	XP_018823191.1
TRINITY_DN1374_c0_g1_i1_1	5,14E-61	187	XP_016182321.1	upstream activation factor subunit UAF30	Arachis ipaensis	XP_020969280.1
TRINITY_DN3233_c0_g1_i1_1	2,58E-132	394	XP_018834801.1	peptidyl-prolyl cis-trans isomerase CYP95 isoform X2	Juglans regia	XP_018834802.1
TRINITY_DN16037_c0_g1_i1_6	1,11E-47	166	XP_018833351.1	protein DEFECTIVE IN EXINE FORMATION 1	Juglans regia	XP_009370211.1
TRINITY_DN4496_c0_g1_i1_6	4,66E-103	306	KHN26125.1	Glucose-6-phosphate isomerase, partial	Glycine soja	OAY23212.1
TRINITY_DN3498_c0_g1_i1_3	0	524	XP_018825910.1	ERBB-3 BINDING PROTEIN 1 isoform X1	Juglans regia	XP_018825911.1
TRINITY_DN8015_c0_g2_i1_1	0	757	XP_018827773.1	uncharacterized protein LOC108996364	Juglans regia	XP_018827774.1
TRINITY_DN8457_c0_g1_i2_3	1,12E-64	203	XP_018844015.1	protein EARLY RESPONSIVE TO DEHYDRATION 15-like	Juglans regia	XP_018852944.1
TRINITY_DN8936_c0_g2_i1_3	2,05E-24	97,8	XP_008232561.1	uncharacterized protein LOC103331692	Prunus mume	ONI22544.1
TRINITY_DN4836_c0_g2_i2_1	0	652	XP_018849426.1	uncharacterized protein LOC109012316	Juglans regia	XP_008363290.1
TRINITY_DN4305_c0_g1_i1_2	3,94E-70	217	XP_018813688.1	iron-sulfur assembly protein IscA-like 2, mitochondrial isoform X1	Juglans regia	KDP42748.1
TRINITY_DN912_c0_g1_i1_3	1,27E-124	355	XP_018809955.1	eukaryotic initiation factor 4A	Juglans regia	KDP31923.1
TRINITY_DN2769_c0_g1_i1_2	0	863	XP_018859383.1	vacuolar protein sorting-associated protein 45 homolog isoform X2	Juglans regia	XP_018839879.1
TRINITY_DN7152_c0_g1_i2_3	7,40E-135	385	XP_018827308.1	uncharacterized protein LOC108996034 isoform X1	Juglans regia	XP_018827309.1
TRINITY_DN7966_c1_g1_i1_1	1,25E-47	154	XP_018826615.1	uncharacterized protein LOC108995493	Juglans regia	XP_018845960.1
TRINITY_DN4959_c0_g1_i1_6	2,58E-10	59,7	OIW21969.1	hypothetical protein TanjilG_18289	Lupinus angustifolius	OIW21969.1
TRINITY_DN11436_c0_g1_i3_2	0	865	ARI45576.1	ATP synthase CF1 beta subunit (chloroplast)	Corylus avellana	AUG61323.1
TRINITY_DN6999_c0_g1_i1_5	1,35E-93	283	XP_018821643.1	uncharacterized protein LOC108991725	Juglans regia	XP_018848582.1
TRINITY_DN19644_c0_g1_i1_5	1,01E-76	244	XP_018815884.1	acid beta-fructofuranosidase-like	Juglans regia	AFU56882.1
TRINITY_DN12673_c0_g1_i1_2	2,23E-58	186	XP_018851375.1	probable protein phosphatase 2C 11	Juglans regia	XP_018857896.1
TRINITY_DN10039_c0_g1_i2_2	1,69E-36	132	XP_012569846.1	multiple organellar RNA editing factor 2, chloroplastic-like	Cicer arietinum	XP_008224177.2
TRINITY_DN6311_c0_g1_i1_1	3,83E-162	465	OAY48391.1	hypothetical protein MANES_06G155200	Manihot esculenta	XP_018847349.1
TRINITY_DN19028_c0_g1_i1_2	1,13E-45	154	XP_017191518.1	hexokinase-2, chloroplastic isoform X2	Malus domestica	OAY22639.1
TRINITY_DN10956_c0_g1_i2_3	0	877	XP_018820512.1	hydroxymethylglutaryl-CoA synthase-like	Juglans regia	OAY59897.1
TRINITY_DN10484_c2_g1_i1_1	9,48E-137	391	KDP26403.1	hypothetical protein JCGZ_17561	Jatropha curcas	XP_012085134.1
TRINITY_DN17185_c0_g1_i1_2	8,31E-121	359	XP_018828206.1	peptidyl-prolyl cis-trans isomerase FKBP62-like	Juglans regia	XP_018828206.1
TRINITY_DN11454_c0_g1_i2_6	3,17E-125	362	ONH99322.1	hypothetical protein PRUPE_6G024700	Prunus persica	ONH99323.1
TRINITY_DN588_c0_g1_i1_4	3,67E-51	176	XP_016647703.1	LOW QUALITY PROTEIN: clathrin interactor EPSIN 2-like	Prunus mume	XP_020409996.1
TRINITY_DN12701_c0_g1_i1_3	5,53E-98	293	XP_018849203.1	alpha-1,3/1,6-mannosyltransferase ALG2 isoform X2	Juglans regia	XP_018849195.1
TRINITY_DN7373_c0_g2_i1_3	0	752	XP_018833292.1	uncharacterized protein LOC109000757	Juglans regia	OAY32974.1
TRINITY_DN11305_c0_g1_i2_2	1,81E-168	479	XP_018825692.1	ubiquitin-conjugating enzyme E2 32-like	Juglans regia	OAY27662.1

TRINITY_DN5684_c0_g1_i1_3	9,13E-152	433	XP_018858478.1	uracil phosphoribosyltransferase isoform X1	Juglans regia	XP_018858479.1
TRINITY_DN864_c0_g1_i1_1	0	737	XP_018852537.1	mitochondrial import inner membrane translocase subunit TIM44-2-like	Juglans regia	KDP26532.1
TRINITY_DN4602_c0_g1_i1_1	0	773	XP_018821666.1	COP9 signalosome complex subunit 4 isoform X2	Juglans regia	KDP38481.1
TRINITY_DN10884_c0_g1_i1_3	0	538	XP_018852504.1	short-chain dehydrogenase TIC 32, chloroplastic-like	Juglans regia	ONI07132.1
TRINITY_DN14631_c0_g1_i1_2	2,41E-32	116	KDP37390.1	hypothetical protein JCGZ_08401	Jatropha curcas	XP_012072933.1
TRINITY_DN10399_c0_g1_i1_1	7,19E-173	484	XP_018809559.1	ER membrane protein complex subunit 3-like	Juglans regia	XP_018842205.1
TRINITY_DN11619_c0_g2_i6_1	0	570	XP_018834293.1	probable metal-nicotianamine transporter YSL7	Juglans regia	XP_018834942.1
TRINITY_DN5247_c0_g2_i1_5	0	1271	XP_018822020.1	uncharacterized protein LOC108992033	Juglans regia	OAY57474.1
TRINITY_DN2861_c0_g1_i1_2	1,26E-128	376	XP_018842938.1	uncharacterized protein LOC109007633	Juglans regia	XP_018812490.1
TRINITY_DN6453_c0_g1_i1_2	0	540	XP_018837250.1	annexin D5	Juglans regia	XP_004503249.1
TRINITY_DN13293_c0_g1_i1_6	4,32E-50	175	XP_018851380.1	uncharacterized protein LOC109013676	Juglans regia	XP_018856765.1
TRINITY_DN5843_c0_g1_i1_3	3,14E-67	211	AAW31716.1	plastid beta-ketoacyl ACP synthase, partial	Betula pendula	KYP57812.1
TRINITY_DN3985_c0_g1_i1_5	2,55E-117	338	XP_018834170.1	membrin-11-like	Juglans regia	XP_018839683.1
TRINITY_DN5098_c0_g2_i1_2	0	629	XP_018860675.1	uncharacterized protein LOC109022268	Juglans regia	XP_018856468.1
TRINITY_DN6975_c0_g2_i1_1	0	717	OAY53197.1	hypothetical protein MANES_04G143600	Manihot esculenta	OAY53198.1
TRINITY_DN3955_c0_g1_i1_6	1,61E-176	503	XP_018807977.1	uncharacterized protein LOC108981316	Juglans regia	XP_004498174.1
TRINITY_DN21162_c0_g1_i1_1	2,63E-41	147	XP_018859288.1	E3 ubiquitin-protein ligase UPL2-like	Juglans regia	XP_018848707.1
TRINITY_DN13980_c0_g1_i1_4	4,82E-149	430	XP_018808656.1	SNARE-interacting protein KEULE-like	Juglans regia	XP_018847688.1
TRINITY_DN6436_c0_g2_i1_3	6,76E-153	431	OAY39697.1	hypothetical protein MANES_10G115900	Manihot esculenta	KDP42462.1
TRINITY_DN7382_c0_g1_i1_5	0	795	XP_018836467.1	mitochondrial substrate carrier family protein C isoform X1	Juglans regia	XP_018836468.1
TRINITY_DN8895_c0_g1_i3_1	0	633	XP_018838226.1	probable low-specificity L-threonine aldolase 1	Juglans regia	XP_018838227.1
TRINITY_DN11523_c0_g1_i1_2	0	1031	XP_018856581.1	carotenoid 9,10(9',10')-cleavage dioxygenase 1	Juglans regia	ONI20422.1
TRINITY_DN6472_c0_g1_i1_3	3,22E-35	122	XP_008241390.1	uncharacterized protein LOC103339816	Prunus mume	XP_008387535.1
TRINITY_DN8927_c0_g1_i1_3	0	765	XP_018845117.1	COP9 signalosome complex subunit 3 isoform X1	Juglans regia	XP_018845118.1
TRINITY_DN22235_c0_g1_i1_2	9,20E-70	216	XP_008223254.1	uncharacterized protein LOC103323072	Prunus mume	ONI28186.1
TRINITY_DN22096_c0_g1_i1_6	6,27E-38	140	XP_018841295.1	kinase-interacting protein 1-like	Juglans regia	XP_020216020.1
TRINITY_DN10384_c0_g1_i1_3	0	874	OAY51257.1	hypothetical protein MANES_05G200200	Manihot esculenta	KDP36971.1
TRINITY_DN12671_c0_g1_i1_1	0	761	XP_018841273.1	plant UBX domain-containing protein 7	Juglans regia	OAY25414.1
TRINITY_DN15659_c0_g1_i1_5	8,08E-53	181	KHN48575.1	Clathrin heavy chain 2	Glycine soja	XP_004491025.1
TRINITY_DN3596_c0_g1_i1_4	8,25E-65	198	XP_018831984.1	actin-depolymerizing factor 2-like	Juglans regia	XP_018814539.1
TRINITY_DN8121_c0_g1_i1_3	4,31E-78	241	OAY32068.1	hypothetical protein MANES_14G163800	Manihot esculenta	KDP38755.1
TRINITY_DN20264_c0_g1_i1_2	3,05E-38	138	XP_018855488.1	protein TOC75-3, chloroplastic-like	Juglans regia	OIW03716.1
TRINITY_DN18042_c0_g1_i1_3	6,91E-97	299	KDP35792.1	hypothetical protein JCGZ_10428	Jatropha curcas	XP_012074678.1
TRINITY_DN18961_c0_g1_i1_1	3,91E-51	174	KDP46216.1	hypothetical protein JCGZ_10056	Jatropha curcas	XP_012069525.1

TRINITY_DN3104_c0_g2_i1_5	1,32E-83	262	XP_018838880.1	fimbrin-5-like	Juglans regia	KEH28484.1
TRINITY_DN17865_c0_g1_i1_1	0	617	XP_018854140.1	elongation factor G-2, mitochondrial	Juglans regia	XP_008232545.1
TRINITY_DN11260_c0_g1_i2_3	0	709	XP_018823451.1	bifunctional D-cysteine desulfhydrase/1-aminocyclopropane-1-carboxylate deaminase, mitochondrial	Juglans regia	ONI09471.1
TRINITY_DN6677_c0_g2_i1_6	3,57E-33	113	XP_018813390.1	glu S.griseus protease inhibitor-like	Juglans regia	ONI26581.1
TRINITY_DN14239_c0_g1_i1_6	1,32E-62	207	XP_018846458.1	apoptotic chromatin condensation inducer in the nucleus-like isoform X1	Juglans regia	XP_018846459.1
TRINITY_DN12081_c0_g1_i1_6	0	800	XP_018821827.1	ultraviolet-B receptor UVR8-like isoform X2	Juglans regia	XP_018821826.1
TRINITY_DN18664_c0_g1_i1_1	1,64E-105	308	XP_018814230.1	electron transfer flavoprotein subunit beta, mitochondrial	Juglans regia	ONI26653.1
TRINITY_DN3353_c0_g1_i1_5	2,78E-74	236	KDP46145.1	hypothetical protein JCGZ_06656	Jatropha curcas	XP_012073647.1
TRINITY_DN13649_c0_g1_i1_6	2,17E-56	184	KRH26303.1	hypothetical protein GLYMA_12G1662001, partial	Glycine max	XP_018809001.1
TRINITY_DN21861_c0_g1_i1_3	1,53E-49	170	XP_018832925.1	protein ABC transporter 1, mitochondrial	Juglans regia	XP_009344790.1
TRINITY_DN22107_c0_g1_i1_1	2,85E-29	113	XP_018851050.1	uncharacterized protein LOC109013419	Juglans regia	XP_018842090.1
TRINITY_DN19998_c0_g1_i1_4	1,49E-57	191	XP_018816061.1	2-isopropylmalate synthase 1, chloroplastic-like	Juglans regia	XP_008392601.1
TRINITY_DN4490_c0_g2_i2_2	0	691	XP_018814136.1	vacuolar amino acid transporter 1-like isoform X1	Juglans regia	XP_018814137.1
TRINITY_DN22424_c0_g2_i1_6	8,92E-112	332	XP_018810164.1	phospho-2-dehydro-3-deoxyheptonate aldolase 2, chloroplastic-like isoform X1	Juglans regia	OAY60153.1
TRINITY_DN1144_c0_g1_i1_3	0	634	XP_018837754.1	anthranilate phosphoribosyltransferase, chloroplastic-like	Juglans regia	OAY47794.1
TRINITY_DN4661_c0_g1_i3_3	1,23E-180	509	XP_018821344.1	angio-associated migratory cell protein	Juglans regia	XP_018821344.1
TRINITY_DN3820_c0_g2_i1_3	0	544	XP_018841709.1	eukaryotic translation initiation factor 3 subunit A-like	Juglans regia	XP_018809947.1
TRINITY_DN10264_c0_g1_i1_2	0	640	KDP21266.1	hypothetical protein JCGZ_21737	Jatropha curcas	XP_012091995.1
TRINITY_DN8158_c0_g1_i1_1	0	550	XP_018845644.1	COP9 signalosome complex subunit 5b-like	Juglans regia	XP_007137114.1
TRINITY_DN9206_c0_g2_i1_1	2,59E-175	494	XP_018824534.1	isoaspartyl peptidase/L-asparaginase-like	Juglans regia	XP_018824524.1
TRINITY_DN9226_c0_g1_i2_3	0	702	XP_018826456.1	uncharacterized protein LOC108995353	Juglans regia	KYP49632.1
TRINITY_DN585_c0_g1_i1_6	6,23E-45	154	XP_018844067.1	UDP-glucuronate 4-epimerase 6	Juglans regia	XP_016187710.1
TRINITY_DN21456_c0_g1_i1_2	2,45E-43	153	XP_018811830.1	exocyst complex component EXO70B1	Juglans regia	XP_009336452.1
TRINITY_DN5447_c0_g2_i1_2	0	869	XP_018811673.1	polypyrimidine tract-binding protein homolog 3	Juglans regia	XP_018811674.1
TRINITY_DN23101_c0_g1_i1_6	1,06E-31	120	XP_018837412.1	ATP-dependent 6-phosphofructokinase 2	Juglans regia	XP_018854632.1
TRINITY_DN1220_c0_g1_i1_6	0	691	ONI09345.1	hypothetical protein PRUPE_5G233600	Prunus persica	XP_007211280.1
TRINITY_DN13227_c0_g1_i1_1	1,88E-54	186	OAY58446.1	hypothetical protein MANES_02G178500	Manihot esculenta	XP_008361615.2
TRINITY_DN5512_c0_g3_i1_3	4,40E-114	335	XP_018817110.1	uncharacterized protein LOC108988328	Juglans regia	XP_009346349.1
TRINITY_DN4033_c0_g2_i1_3	3,73E-176	507	ONI17441.1	hypothetical protein PRUPE_3G159400	Prunus persica	ONI17442.1
TRINITY_DN4640_c0_g1_i1_2	5,20E-110	319	AFK37233.1	unknown	Lotus japonicus	XP_004508073.1
TRINITY_DN5850_c0_g1_i1_1	7,47E-49	167	XP_018850159.1	protein ZINC INDUCED FACILITATOR-LIKE 1-like	Juglans regia	KDP27074.1
TRINITY_DN11339_c0_g1_i3_1	0	578	XP_018816749.1	protein DJ-1 homolog D-like	Juglans regia	XP_018816749.1

TRINITY_DN2739_c0_g1_i1_1	2,34E-94	276	XP_018827376.1	trafficking protein particle complex subunit 2-like	Juglans regia	XP_008218711.1
TRINITY_DN6721_c1_g1_i1_1	1,23E-61	199	XP_018844889.1	ruvB-like protein 1 isoform X1	Juglans regia	XP_018844890.1
TRINITY_DN7299_c0_g1_i1_1	2,80E-43	142	XP_018822933.1	cytochrome c oxidase copper chaperone 1-like	Juglans regia	XP_018850576.1
TRINITY_DN2661_c0_g2_i1_1	0	590	XP_018836286.1	protein trichome birefringence-like 16	Juglans regia	XP_018836287.1
TRINITY_DN7083_c0_g2_i2_1	0	905	XP_018817752.1	branched-chain-amino-acid aminotransferase-like protein 1	Juglans regia	XP_020212375.1
TRINITY_DN18425_c0_g1_i1_2	3,31E-63	206	XP_018818346.1	dynamin-related protein 5A	Juglans regia	OAY49013.1
TRINITY_DN11416_c0_g1_i1_3	0	665	XP_018835846.1	polygalacturonase QRT3	Juglans regia	XP_018835847.1
TRINITY_DN9924_c0_g1_i1_2	2,03E-28	103	XP_015962951.1	uncharacterized protein LOC107486893	Arachis duranensis	XP_014497407.1
TRINITY_DN8093_c0_g1_i1_2	9,86E-171	481	XP_018830672.1	choline-phosphate cytidylyltransferase 2-like	Juglans regia	XP_018828350.1
TRINITY_DN766_c0_g1_i1_2	2,32E-66	204	OAY54996.1	hypothetical protein MANES_03G119600	Manihot esculenta	OAY28606.1
TRINITY_DN10380_c0_g1_i2_1	3,13E-66	207	OAY31883.1	hypothetical protein MANES_14G148900	Manihot esculenta	KYP53704.1
TRINITY_DN2440_c0_g1_i2_2	0	917	XP_018859103.1	cysteine--tRNA ligase 2, cytoplasmic-like isoform X1	Juglans regia	XP_018849702.1
TRINITY_DN18420_c0_g1_i1_3	3,00E-62	210	XP_018815848.1	probable ubiquitin conjugation factor E4	Juglans regia	KRG93599.1
TRINITY_DN7383_c0_g1_i1_3	8,63E-121	349	XP_018827251.1	vacuolar protein sorting-associated protein 2 homolog 3	Juglans regia	XP_008235640.1
TRINITY_DN14144_c0_g1_i1_6	7,89E-83	248	XP_018832787.1	uncharacterized protein LOC109000390	Juglans regia	ONH90281.1
TRINITY_DN16953_c0_g1_i1_2	4,61E-09	55,5	XP_018852024.1	uncharacterized protein LOC109014136	Juglans regia	XP_008241938.1
TRINITY_DN10509_c0_g1_i1_3	2,52E-138	394	XP_018826140.1	endo-1,3;1,4-beta-D-glucanase-like isoform X1	Juglans regia	XP_008223020.1
TRINITY_DN7183_c0_g1_i2_1	1,66E-178	513	XP_018817029.1	GTPase LSG1-2	Juglans regia	XP_018817030.1
TRINITY_DN17895_c0_g1_i1_1	9,22E-75	243	XP_018812523.1	probable alpha,alpha-trehalose-phosphate synthase [UDP-forming 7]	Juglans regia	XP_018841187.1
TRINITY_DN9983_c0_g1_i1_1	0	848	XP_018822700.1	homogentisate 1,2-dioxygenase-like	Juglans regia	XP_018849997.1
TRINITY_DN1054_c0_g1_i1_1	2,33E-99	295	XP_017188304.1	protein IN2-1 homolog B-like	Malus domestica	ONI24059.1
TRINITY_DN1267_c0_g1_i1_6	2,76E-57	191	XP_018825638.1	translation initiation factor eIF-2B subunit epsilon isoform X5	Juglans regia	XP_018825637.1
TRINITY_DN10960_c0_g1_i1_3	0	560	XP_018841808.1	ATP-dependent Clp protease proteolytic subunit-related protein 3, chloroplastic	Juglans regia	XP_007147022.1
TRINITY_DN20312_c0_g1_i1_4	1,07E-59	192	XP_018818889.1	arogenate dehydratase/prephenate dehydratase 2, chloroplastic isoform X3	Juglans regia	XP_018818888.1
TRINITY_DN18128_c0_g1_i1_2	2,63E-30	116	KDP34198.1	hypothetical protein JCGZ_07769	Jatropha curcas	XP_012077428.1
TRINITY_DN8563_c0_g1_i1_2	5,06E-168	475	XP_004494622.1	protein YIPF1 homolog	Cicer arietinum	OAY42270.1
TRINITY_DN6232_c0_g1_i3_2	0	855	ONI24548.1	hypothetical protein PRUPE_2G246000	Prunus persica	XP_007220435.1
TRINITY_DN5437_c0_g1_i1_2	0	935	XP_018852337.1	probable methyltransferase PMT5	Juglans regia	XP_018852338.1
TRINITY_DN3837_c0_g1_i1_3	8,07E-67	207	XP_018843373.1	uncharacterized protein LOC109007919	Juglans regia	XP_008228306.1
TRINITY_DN4426_c0_g1_i1_2	0	716	XP_018830807.1	protein trichome birefringence-like 18	Juglans regia	XP_018830808.1
TRINITY_DN13216_c0_g1_i1_3	8,03E-36	124	XP_008348817.1	copper-transporting ATPase PAA1, chloroplastic-like isoform X1	Malus domestica	XP_008348818.1

TRINITY_DN8517_c0_g1_i3_3	0	766	XP_018840482.1	probable LRR receptor-like serine/threonine-protein kinase At1g67720	Juglans regia	XP_018846848.1
TRINITY_DN17094_c0_g1_i1_4	3,93E-86	277	XP_018848266.1	epidermal growth factor receptor substrate 15-like 1 isoform X2	Juglans regia	XP_018848266.1
TRINITY_DN20326_c0_g1_i1_2	5,80E-98	283	XP_014492833.1	ubiquitin carboxyl-terminal hydrolase 12-like	Vigna radiata var. radiata	KYP36624.1
TRINITY_DN7535_c0_g2_i1_1	1,31E-153	440	XP_018828729.1	RHOMBOID-like protein 2	Juglans regia	KDP25494.1
TRINITY_DN7228_c0_g1_i2_1	0	663	ONI19115.1	hypothetical protein PRUPE_3G259400	Prunus persica	XP_007214914.1
TRINITY_DN16259_c0_g1_i1_3	8,43E-51	174	XP_018808786.1	valine--tRNA ligase, mitochondrial 1	Juglans regia	XP_018808787.1
TRINITY_DN21689_c0_g1_i1_3	3,34E-70	222	XP_018859875.1	glycine-rich RNA-binding protein 3, mitochondrial	Juglans regia	XP_018859875.1
TRINITY_DN8651_c0_g2_i1_2	0	596	XP_018842811.1	vacuolar protein sorting-associated protein 26B-like	Juglans regia	XP_018842812.1
TRINITY_DN11262_c0_g1_i1_3	7,04E-132	379	XP_018858783.1	ras-related protein RABF2a	Juglans regia	AGL52580.1
TRINITY_DN2292_c0_g3_i1_5	5,90E-33	115	OAY51431.1	hypothetical protein MANES_04G006200	Manihot esculenta	XP_018848651.1
TRINITY_DN12820_c0_g1_i1_2	1,97E-47	167	XP_018838880.1	fimbrin-5-like	Juglans regia	XP_008342163.1
TRINITY_DN21154_c0_g1_i1_4	4,76E-74	238	XP_018824493.1	uncharacterized protein LOC108993891	Juglans regia	ONI13349.1
TRINITY_DN17026_c0_g1_i1_1	5,08E-130	373	XP_018819460.1	beta-galactosidase 6-like	Juglans regia	XP_018819501.1
TRINITY_DN14578_c0_g1_i1_4	3,92E-73	231	XP_018834206.1	leucine-rich repeat receptor-like protein kinase PXC2	Juglans regia	XP_018834206.1
TRINITY_DN5368_c0_g1_i2_5	1,86E-168	472	XP_018830497.1	14-3-3-like protein C isoform X1	Juglans regia	XP_008225282.1
TRINITY_DN17464_c0_g1_i1_1	1,17E-83	248	dbj|GAU32431.1	hypothetical protein TSUD_158290	Trifolium subterraneum	XP_008345781.1
TRINITY_DN8742_c0_g1_i1_3	2,98E-139	397	XP_008234264.1	ADP-ribosylation factor-related protein 1	Prunus mume	XP_018842923.1
TRINITY_DN14137_c0_g1_i1_2	5,46E-23	95,1	XP_008227771.1	protoporphyrinogen oxidase 1, chloroplastic	Prunus mume	ONI14680.1
TRINITY_DN2434_c0_g1_i1_5	0	593	XP_018835586.1	uncharacterized protein LOC109002344 isoform X2	Juglans regia	XP_018835588.1
TRINITY_DN10474_c1_g1_i1_2	0	986	XP_018813982.1	SNF1-related protein kinase catalytic subunit alpha KIN10-like	Juglans regia	XP_018813984.1
TRINITY_DN12774_c0_g1_i1_1	1,06E-99	294	XP_018811826.1	uncharacterized protein LOC108984353	Juglans regia	ONI29911.1
TRINITY_DN3904_c0_g1_i1_3	3,50E-57	188	dbj|BAT79239.1	hypothetical protein VIGAN_02208400	Vigna angularis var. angularis	XP_018827765.1
TRINITY_DN19463_c0_g1_i1_1	2,13E-48	167	XP_017191425.1	rab3 GTPase-activating protein catalytic subunit-like isoform X2	Malus domestica	XP_008385868.1
TRINITY_DN8904_c0_g2_i1_3	0	548	XP_018830043.1	SH3 domain-containing protein 3 isoform X1	Juglans regia	OAY25056.1
TRINITY_DN8767_c0_g1_i1_3	0	606	XP_018834921.1	protein FLX-like 2	Juglans regia	OAY60372.1
TRINITY_DN3578_c0_g1_i1_2	8,00E-75	225	XP_018809376.1	60S ribosomal protein L9-like	Juglans regia	XP_018809377.1
TRINITY_DN15270_c0_g1_i1_2	1,84E-85	276	XP_018841295.1	kinase-interacting protein 1-like	Juglans regia	XP_009364270.1
TRINITY_DN1008_c0_g2_i1_2	3,87E-13	70,9	XP_008231927.1	importin-5	Prunus mume	XP_009375844.1
TRINITY_DN13945_c0_g1_i1_1	5,29E-137	397	XP_018815129.1	cyclin-dependent kinase F-1	Juglans regia	ONH98065.1
TRINITY_DN7325_c0_g1_i1_1	6,05E-45	147	ONI00719.1	hypothetical protein PRUPE_6G102700	Prunus persica	ONI00720.1
TRINITY_DN11924_c0_g1_i1_2	4,43E-155	456	XP_018848367.1	SPX domain-containing membrane protein At4g22990-like isoform X3	Juglans regia	XP_018848364.1

TRINITY_DN10508_c0_g1_i3_5	0	525	XP_018823258.1	non-functional NADPH-dependent codeinone reductase 2-like	Juglans regia	XP_018836052.1
TRINITY_DN7011_c0_g1_i1_2	4,76E-160	453	XP_018826575.1	microtubule-associated protein RP/EB family member 1A isoform X2	Juglans regia	XP_008239808.1
TRINITY_DN3619_c0_g1_i1_2	6,25E-46	164	XP_018834055.1	probable alpha-mannosidase At5g13980 isoform X3	Juglans regia	XP_018834056.1
TRINITY_DN14686_c0_g1_i1_1	1,13E-43	151	XP_018845260.1	endoglucanase 16	Juglans regia	XP_012077550.1
TRINITY_DN9581_c0_g1_i2_2	1,94E-92	272	XP_018807341.1	acyl-coenzyme A thioesterase 13	Juglans regia	KDP46555.1
TRINITY_DN9707_c0_g1_i1_1	0	608	XP_018846669.1	4-hydroxy-tetrahydrodipicolinate synthase, chloroplastic-like	Juglans regia	XP_018806961.1
TRINITY_DN8938_c0_g1_i1_2	1,44E-168	484	XP_018829162.1	uncharacterized protein LOC108997384 isoform X2	Juglans regia	XP_018829161.1
TRINITY_DN10825_c0_g1_i4_1	1,16E-39	138	XP_009368696.1	uncharacterized protein LOC103958177	Pyrus x bretschneideri	XP_009352068.1
TRINITY_DN7033_c0_g2_i1_2	0	971	XP_018852332.1	probable phosphoinositide phosphatase SAC9	Juglans regia	XP_008243038.1
TRINITY_DN10999_c0_g1_i5_2	0	1280	XP_018850254.1	pyrophosphate-energized membrane proton pump 3 isoform X1	Juglans regia	XP_018850256.1
TRINITY_DN3792_c0_g1_i1_2	0	665	XP_018845113.1	protein TPLATE isoform X1	Juglans regia	XP_018845114.1
TRINITY_DN15541_c0_g1_i1_1	3,43E-73	239	XP_018841510.1	transportin-1-like isoform X1	Juglans regia	XP_018841511.1
TRINITY_DN2393_c0_g1_i1_3	4,13E-113	358	XP_018810529.1	auxilin-related protein 2-like	Juglans regia	XP_018827617.1
TRINITY_DN10184_c0_g1_i1_3	0	654	ONI33038.1	hypothetical protein PRUPE_1G401700	Prunus persica	XP_007222217.2
TRINITY_DN7705_c0_g1_i2_6	0	588	XP_018854773.1	heterogeneous nuclear ribonucleoprotein R-like isoform X2	Juglans regia	XP_018854759.1
TRINITY_DN7315_c0_g1_i1_4	0	600	XP_018834505.1	uncharacterized protein LOC109001605	Juglans regia	XP_008220433.1
TRINITY_DN8439_c0_g1_i1_6	2,08E-158	450	XP_018807846.1	L-ascorbate peroxidase 2, cytosolic-like	Juglans regia	XP_009342360.1
TRINITY_DN3610_c0_g2_i1_2	3,84E-81	243	XP_018821997.1	protein FMP32, mitochondrial-like	Juglans regia	XP_018821998.1
TRINITY_DN3307_c0_g1_i1_1	9,99E-112	329	XP_018846091.1	pentatricopeptide repeat-containing protein At1g61870, mitochondrial-like	Juglans regia	XP_018810112.1
TRINITY_DN18256_c0_g1_i1_4	0	638	XP_018836506.1	uncharacterized protein LOC109003012	Juglans regia	XP_008233533.1
TRINITY_DN11948_c0_g1_i1_6	1,00E-176	499	XP_018837315.1	uncharacterized protein LOC109003573	Juglans regia	KDP28635.1
TRINITY_DN5672_c0_g1_i1_6	0	955	XP_018851667.1	FRIGIDA-like protein 3	Juglans regia	OAY33680.1
TRINITY_DN138_c0_g1_i1_3	2,38E-50	172	XP_018807197.1	uncharacterized protein LOC108980650	Juglans regia	XP_008230044.1
TRINITY_DN10435_c0_g1_i1_1	0	1229	XP_018809511.1	pantothenate kinase 2 isoform X1	Juglans regia	XP_018809513.1
TRINITY_DN10493_c0_g1_i1_1	4,40E-114	332	KEH42355.1	RAB GTPase-like protein A5B	Medicago truncatula	XP_013468318.1
TRINITY_DN10290_c0_g1_i1_1	0	647	XP_008355915.1	putative MO25-like protein At5g47540	Malus domestica	XP_008227465.1
TRINITY_DN12636_c0_g1_i1_3	4,62E-72	218	AFK39482.1	unknown	Lotus japonicus	XP_018822564.1
TRINITY_DN14818_c0_g1_i1_6	8,80E-104	304	XP_018828900.1	uncharacterized protein LOC108997197	Juglans regia	XP_018828901.1
TRINITY_DN360_c0_g1_i1_4	6,76E-167	476	XP_018835381.1	protein O-glucosyltransferase 1-like	Juglans regia	XP_018810046.1
TRINITY_DN7953_c0_g2_i1_2	0	838	XP_018827095.1	ubiquinone biosynthesis monooxygenase COQ6, mitochondrial isoform X1	Juglans regia	OAY55385.1
TRINITY_DN8751_c1_g1_i1_3	0	655	XP_018836391.1	WD repeat-containing protein DWA2-like	Juglans regia	ONI32229.1
TRINITY_DN19806_c0_g1_i1_2	8,44E-64	207	XP_018859162.1	putative 3,4-dihydroxy-2-butanone kinase, partial	Juglans regia	XP_020215528.1

TRINITY_DN18164_c0_g1_i1_4	5,03E-72	236	XP_018828527.1	nardilysin-like	Juglans regia	XP_016646759.1
TRINITY_DN7968_c0_g1_i1_1	1,48E-110	319	XP_018832963.1	uncharacterized protein LOC109000515	Juglans regia	XP_018843096.1
TRINITY_DN7925_c0_g2_i1_4	2,03E-149	423	XP_018826593.1	NAP1-related protein 2	Juglans regia	XP_018833970.1
TRINITY_DN8225_c0_g1_i1_3	0	858	XP_018844632.1	vacuolar-processing enzyme-like	Juglans regia	XP_018844633.1
TRINITY_DN7814_c0_g1_i1_2	6,91E-159	461	XP_018843188.1	protein WVD2-like 2	Juglans regia	XP_018826282.1
TRINITY_DN21393_c0_g1_i1_4	3,46E-67	217	XP_018858362.1	rop guanine nucleotide exchange factor 12-like	Juglans regia	XP_008228557.1
TRINITY_DN20157_c0_g1_i1_3	1,96E-43	147	XP_018849298.1	E3 ubiquitin-protein ligase RING1-like	Juglans regia	XP_007152550.1
TRINITY_DN4739_c0_g2_i1_6	1,08E-112	332	OAY44057.1	hypothetical protein MANES_08G119000	Manihot esculenta	KDP23488.1
TRINITY_DN6504_c0_g1_i1_3	6,71E-120	357	XP_018839613.1	uncharacterized protein LOC109005243 isoform X1	Juglans regia	XP_018839614.1
TRINITY_DN9930_c0_g1_i3_4	7,86E-104	305	XP_018839330.1	aminoacyl tRNA synthase complex-interacting multifunctional protein 1	Juglans regia	XP_009348571.1
TRINITY_DN11687_c0_g1_i1_1	2,59E-27	107	XP_018810128.1	D-3-phosphoglycerate dehydrogenase 2, chloroplastic-like	Juglans regia	XP_007142145.1
TRINITY_DN968_c0_g1_i1_2	9,77E-111	329	XP_018847080.1	cytochrome P450 81E8-like, partial	Juglans regia	XP_018842054.1
TRINITY_DN8156_c0_g1_i1_6	0	614	XP_018830767.1	O-glucosyltransferase rumi homolog	Juglans regia	OAY48296.1
TRINITY_DN9403_c0_g1_i2_1	0	667	XP_018830668.1	sorbitol dehydrogenase	Juglans regia	KYP38685.1
TRINITY_DN10308_c0_g2_i1_1	1,87E-92	273	KDP26388.1	hypothetical protein JCGZ_17546	Jatropha curcas	XP_012085110.1
TRINITY_DN5427_c0_g1_i1_3	9,41E-34	119	XP_018853827.1	uncharacterized protein LOC109015827	Juglans regia	XP_018853937.1
TRINITY_DN10971_c0_g1_i2_2	0	806	XP_018836549.1	uncharacterized protein LOC109003048	Juglans regia	KDP32822.1
TRINITY_DN21130_c0_g1_i1_6	4,67E-120	368	XP_018815773.1	importin beta-like SAD2	Juglans regia	KRH01530.1
TRINITY_DN7507_c0_g1_i1_6	6,41E-39	131	XP_018850773.1	uncharacterized protein LOC109013215 isoform X2	Juglans regia	XP_018850772.1
TRINITY_DN8691_c0_g1_i1_4	7,64E-55	172	XP_008229999.1	uncharacterized protein LOC103329321	Prunus mume	XP_009368392.1
TRINITY_DN13949_c0_g1_i2_2	2,95E-171	480	XP_018850845.1	NADPH-dependent 1-acyldihydroxyacetone phosphate reductase-like	Juglans regia	XP_018846462.1
TRINITY_DN17228_c0_g1_i1_3	8,14E-24	97,8	XP_018828527.1	nardilysin-like	Juglans regia	XP_008359044.2
TRINITY_DN15289_c0_g1_i1_4	3,00E-71	216	XP_018814411.1	uncharacterized protein LOC108986289	Juglans regia	KDP21869.1
TRINITY_DN3649_c0_g1_i1_2	9,58E-83	251	XP_018854291.1	uncharacterized protein LOC109016313	Juglans regia	OAY62495.1
TRINITY_DN3740_c0_g2_i1_2	9,72E-109	315	XP_008235034.1	dephospho-CoA kinase	Prunus mume	XP_008368962.1
TRINITY_DN18927_c0_g1_i1_2	0	525	XP_018858396.1	uncharacterized protein LOC109020402 isoform X1	Juglans regia	XP_018806239.1
TRINITY_DN8933_c1_g1_i1_2	1,69E-46	154	dbj|BAU02187.1	hypothetical protein VIGAN_11165700	Vigna angularis var. angularis	XP_014624238.1
TRINITY_DN16700_c0_g1_i1_4						
TRINITY_DN709_c0_g2_i1_2	1,79E-177	499	XP_018853661.1	SEC12-like protein 1	Juglans regia	XP_009373824.1
TRINITY_DN813_c0_g1_i1_3	4,57E-101	303	XP_018853528.1	GABA transporter 1-like	Juglans regia	XP_009350466.1
TRINITY_DN20089_c0_g1_i1_1	4,75E-16	75,5	XP_018809065.1	uncharacterized TPR repeat-containing protein At1g05150-like	Juglans regia	OAY50637.1
TRINITY_DN19940_c0_g1_i1_4	7,02E-110	338	XP_018834193.1	dynamin-2A-like	Juglans regia	XP_018831147.1
TRINITY_DN16604_c0_g1_i1_3	3,59E-69	216	XP_018812823.1	dnaJ protein P58IPK homolog, partial	Juglans regia	XP_018847795.1
TRINITY_DN9343_c0_g1_i1_2	0	994	XP_018851735.1	E3 ubiquitin-protein ligase KEG-like	Juglans regia	XP_018851736.1
TRINITY_DN8561_c0_g1_i4_1	4,34E-83	251	XP_018825585.1	uncharacterized protein LOC108994714	Juglans regia	OAY27757.1

TRINITY_DN21803_c0_g1_i1_1	5,58E-65	207	XP_018855937.1	serine/threonine protein phosphatase 2A regulatory subunit B''beta-like	Juglans regia	XP_018818295.1
TRINITY_DN4286_c0_g1_i1_4	0	553	XP_018845608.1	U-box domain-containing protein 34-like isoform X2	Juglans regia	XP_018845606.1
TRINITY_DN5644_c1_g3_i1_6	1,41E-06	50,8	XP_018834731.1	uncharacterized protein LOC109001780	Juglans regia	KHN10293.1
TRINITY_DN11599_c0_g1_i3_2	1,34E-136	398	XP_018830827.1	anthocyanidin 3-O-glucosyltransferase 2-like isoform X6	Juglans regia	XP_018830826.1
TRINITY_DN17497_c0_g1_i1_2	0	801	XP_018856249.1	methylcrotonoyl-CoA carboxylase subunit alpha, mitochondrial isoform X2	Juglans regia	XP_018856242.1
TRINITY_DN3550_c0_g2_i1_2	0	704	XP_018815864.1	conserved oligomeric Golgi complex subunit 7	Juglans regia	XP_008234406.1
TRINITY_DN4310_c0_g1_i1_1	3,94E-61	197	OAY23950.1	hypothetical protein MANES_18G120300	Manihot esculenta	XP_018841146.1
TRINITY_DN21144_c0_g1_i1_4	2,24E-140	402	XP_018850569.1	nitrilase-like protein 2	Juglans regia	XP_015942307.1
TRINITY_DN23569_c0_g1_i1_2	2,01E-17	79	XP_008234398.1	trehalose-phosphate phosphatase A	Prunus mume	XP_016650210.1
TRINITY_DN2786_c0_g1_i1_5	5,41E-93	279	XP_018807742.1	GDSL esterase/lipase At5g03610-like isoform X1	Juglans regia	OAY42883.1
TRINITY_DN5005_c0_g1_i1_1	0	514	XP_018833335.1	rhodanese-like domain-containing protein 11, chloroplastic	Juglans regia	XP_008374369.1
TRINITY_DN5974_c0_g1_i1_3	9,80E-171	484	XP_018808798.1	uncharacterized protein LOC108981991	Juglans regia	XP_018843303.1
TRINITY_DN6400_c0_g1_i4_1	2,87E-101	297	XP_018860314.1	ras-related protein RABA1f-like	Juglans regia	OIV93234.1
TRINITY_DN11632_c0_g1_i2_5	0	570	XP_018860284.1	probable eukaryotic translation initiation factor 5-1	Juglans regia	AHA83527.1
TRINITY_DN17813_c0_g1_i1_1	4,61E-115	341	XP_008372356.1	serine/threonine-protein kinase tricorner	Malus domestica	ONH93245.1
TRINITY_DN17235_c0_g1_i1_3	2,01E-81	260	XP_018850837.1	germinal center kinase 1-like isoform X2	Juglans regia	XP_018850820.1
TRINITY_DN6926_c0_g1_i1_6	3,25E-41	137	OAY58238.1	hypothetical protein MANES_02G160800	Manihot esculenta	XP_008385565.1
TRINITY_DN17803_c0_g2_i1_3	0	820	XP_018821646.1	uncharacterized protein LOC108991727 isoform X2	Juglans regia	XP_018821645.1
TRINITY_DN2011_c0_g1_i1_4	2,14E-28	109	XP_018806881.1	GTPase-activating protein GYP1-like	Juglans regia	KRH24570.1
TRINITY_DN8075_c0_g1_i4_2	0	610	XP_018818640.1	uncharacterized protein LOC108989478	Juglans regia	ONI26425.1
TRINITY_DN2579_c0_g1_i1_2	9,11E-40	143	OAY45686.1	hypothetical protein MANES_07G083000	Manihot esculenta	KDP27531.1
TRINITY_DN19468_c0_g1_i1_2	6,16E-124	358	OAY57019.1	hypothetical protein MANES_02G064000	Manihot esculenta	OAY57009.1
TRINITY_DN3475_c0_g2_i1_2	1,00E-89	275	XP_018848680.1	eukaryotic translation initiation factor 5B-like	Juglans regia	XP_018848181.1
TRINITY_DN4140_c0_g1_i1_5	3,65E-135	384	XP_008221612.1	ribonuclease 3-like	Prunus mume	ONI30823.1
TRINITY_DN545_c0_g1_i1_2	2,09E-70	229	XP_018851343.1	LETM1 and EF-hand domain-containing protein 1, mitochondrial	Juglans regia	XP_018851344.1
TRINITY_DN6995_c0_g1_i1_6	3,87E-62	192	XP_014503527.1	small nuclear ribonucleoprotein Sm D2-like	Vigna radiata var. radiata	XP_014503537.1
TRINITY_DN9117_c0_g1_i2_2	1,12E-105	323	XP_018808629.1	synaptotagmin-5-like	Juglans regia	OAY49277.1
TRINITY_DN14629_c0_g1_i1_3	4,61E-58	186	XP_018843094.1	uncharacterized protein LOC109007740 isoform X2	Juglans regia	XP_018843093.1
TRINITY_DN8532_c0_g1_i1_2	4,65E-33	122	XP_018821438.1	ATP-dependent Clp protease proteolytic subunit-related protein 4, chloroplastic-like	Juglans regia	KDP39950.1
TRINITY_DN9825_c0_g1_i1_3	0	1075	OAY54110.1	hypothetical protein MANES_03G049000	Manihot esculenta	XP_012077273.1

TRINITY_DN2131_c0_g1_i1_6	0	625	XP_018835199.1	glutamine-dependent NAD(+) synthetase	Juglans regia	XP_018835200.1
TRINITY_DN2699_c0_g1_i1_6	0	912	XP_018808908.1	glucose-6-phosphate 1-dehydrogenase, chloroplastic isoform X1	Juglans regia	XP_018808909.1
TRINITY_DN10766_c0_g1_i8_3	0	598	XP_018816803.1	transmembrane 9 superfamily member 3-like	Juglans regia	OAY29373.1
TRINITY_DN6812_c0_g1_i7_1	0	647	XP_018805195.1	probable serine/threonine-protein kinase DDB_G0291350	Juglans regia	ONI09009.1
TRINITY_DN19649_c0_g1_i1_5	3,58E-55	189	XP_009366253.1	type I inositol polyphosphate 5-phosphatase 12-like isoform X2	Pyrus x bretschneideri	XP_009366252.1
TRINITY_DN10388_c0_g2_i1_5	0	902	XP_018810465.1	subtilisin-like protease SBT5.4	Juglans regia	XP_008218932.1
TRINITY_DN8750_c0_g2_i1_3	0	805	XP_018818643.1	ATP sulfurylase 1, chloroplastic-like	Juglans regia	XP_018839429.1
TRINITY_DN17662_c0_g2_i1_1	1,70E-107	317	XP_018837945.1	ATP-dependent Clp protease proteolytic subunit 4, chloroplastic	Juglans regia	KYP66493.1
TRINITY_DN5306_c0_g1_i1_1	0	580	OAY58628.1	hypothetical protein MANES_02G194100	Manihot esculenta	OAY58629.1
TRINITY_DN4670_c0_g1_i1_2	0	599	XP_018832866.1	LETM1 and EF-hand domain-containing protein 1, mitochondrial-like	Juglans regia	XP_018832867.1
TRINITY_DN9078_c0_g1_i2_3	1,15E-09	65,9	XP_018848181.1	eukaryotic translation initiation factor 5E	Juglans regia	XP_018848182.1
TRINITY_DN8091_c0_g1_i1_6	5,68E-132	376	XP_018827022.1	vacuolar protein sorting-associated protein 2 homolog 1	Juglans regia	XP_015931320.1
TRINITY_DN12406_c0_g1_i1_2	2,44E-82	257	XP_018815451.1	protein decapping 5-like	Juglans regia	OAY31246.1
TRINITY_DN17368_c0_g1_i1_2	4,52E-89	280	XP_018813997.1	granule-bound starch synthase 2, chloroplastic/amyloplastic-like	Juglans regia	XP_018815969.1
TRINITY_DN9727_c0_g1_i1_3	0	530	XP_018847896.1	GDSL esterase/lipase EXL3-like	Juglans regia	XP_018846820.1
TRINITY_DN17339_c0_g1_i1_3	5,09E-16	70,1	2051993|emb|CAA73147.1	Bet v 4	Betula pendula	CAA76831.1
TRINITY_DN18284_c0_g1_i1_2	2,00E-131	380	XP_018818624.1	3-hydroxyisobutyryl-CoA hydrolase 1-like	Juglans regia	OAY38989.1
TRINITY_DN10226_c0_g1_i1_1	7,66E-167	471	XP_018816923.1	protein PTST, chloroplastic isoform X1	Juglans regia	XP_018816924.1
TRINITY_DN8973_c0_g1_i1_1	8,67E-121	352	XP_018809935.1	RWD domain-containing protein 1	Juglans regia	XP_012069022.1
TRINITY_DN16264_c0_g1_i1_2	2,10E-44	154	OAY58864.1	hypothetical protein MANES_02G212800	Manihot esculenta	KDP45791.1
TRINITY_DN12122_c0_g1_i1_3	0	548	XP_018844413.1	uncharacterized protein LOC109008682	Juglans regia	ONH97583.1
TRINITY_DN4741_c0_g1_i1_2	0	597	XP_018841794.1	serine/threonine-protein phosphatase PP1	Juglans regia	XP_008388516.1
TRINITY_DN20857_c0_g1_i1_2	4,28E-112	323	XP_018812734.1	haloacid dehalogenase-like hydrolase domain-containing protein 3	Juglans regia	XP_018812735.1
TRINITY_DN13782_c0_g1_i1_1	8,38E-41	146	XP_015952377.1	LOW QUALITY PROTEIN: beta-galactosidase 8-like	Arachis duranensis	ONI00641.1
TRINITY_DN4532_c0_g1_i1_2	0	769	KDP20674.1	hypothetical protein JCGZ_21145	Jatropha curcas	XP_012091244.1
TRINITY_DN39_c0_g2_i1_6	1,37E-56	188	XP_018816046.1	uncharacterized protein LOC108987537	Juglans regia	XP_008388391.1
TRINITY_DN20415_c0_g1_i1_2	3,24E-44	155	XP_018822938.1	exocyst complex component SEC8-like	Juglans regia	XP_018822939.1
TRINITY_DN9710_c1_g1_i1_6	0	838	XP_018805234.1	pentatricopeptide repeat-containing protein At1g60770 isoform X1	Juglans regia	XP_008368256.1
TRINITY_DN371_c0_g1_i1_2	0	530	XP_018838495.1	apoptosis inhibitor 5-like protein API5	Juglans regia	XP_018833552.1
TRINITY_DN20208_c0_g1_i1_1	3,49E-43	145	XP_008344029.1	myosin-17-like	Malus domestica	XP_018846185.1
TRINITY_DN11629_c0_g1_i3_3	0	1211	OAY27675.1	hypothetical protein MANES_15G006300	Manihot esculenta	KDP27887.1
TRINITY_DN12689_c0_g1_i1_2	0	689	XP_018816643.1	auxin transport protein BIG	Juglans regia	ONI18935.1

TRINITY_DN8223_c0_g1_i4_6	0	591	XP_018833203.1	uncharacterized protein LOC109000690 isoform X1	Juglans regia	KYP54237.1
TRINITY_DN20465_c0_g1_i1_6	3,33E-30	114	XP_008223661.1	FGGY carbohydrate kinase domain-containing protein isoform X2	Prunus mume	ONI27478.1
TRINITY_DN7564_c1_g2_i2_4	5,48E-49	161	XP_018851171.1	uncharacterized protein LOC109013510	Juglans regia	ONH95810.1
TRINITY_DN10977_c0_g2_i3_5	0	796	XP_018822222.1	DEAD-box ATP-dependent RNA helicase 56	Juglans regia	XP_018812870.1
TRINITY_DN23633_c0_g1_i1_2	1,74E-42	149	KRH58836.1	hypothetical protein GLYMA_05G151100	Glycine max	AAC05981.1
TRINITY_DN6603_c0_g1_i1_3	0	762	XP_018829609.1	vacuolar protein sorting-associated protein 35A-like	Juglans regia	XP_020540155.1
TRINITY_DN9814_c0_g1_i2_2	0	615	XP_018843117.1	cathepsin B-like	Juglans regia	ONI14643.1
TRINITY_DN7007_c0_g1_i1_6	0	685	XP_018857638.1	cytosolic Fe-S cluster assembly factor NBP35	Juglans regia	XP_008219249.1
TRINITY_DN14463_c0_g1_i1_1	1,16E-100	301	ONH96206.1	hypothetical protein PRUPE_7G113300	Prunus persica	XP_007202051.1
TRINITY_DN6833_c0_g1_i1_2	1,61E-144	408	XP_018857020.1	peptidyl-prolyl cis-trans isomerase CYP23	Juglans regia	KDP41170.1
TRINITY_DN839_c0_g1_i2_1	7,35E-36	122	XP_018854860.1	60S ribosomal protein L37a-1	Juglans regia	XP_012075387.1
TRINITY_DN20539_c0_g1_i1_2	6,11E-97	300	XP_018811352.1	heat shock 70 kDa protein 16-like	Juglans regia	XP_018811359.1
TRINITY_DN3431_c0_g1_i1_2	1,34E-65	218	OAY59027.1	hypothetical protein MANES_02G225500	Manihot esculenta	KDP45840.1
TRINITY_DN11964_c0_g1_i1_3	3,28E-138	412	KYP52193.1	Beta-galactosidase 7	Cajanus cajan	XP_020230592.1
TRINITY_DN4866_c0_g2_i1_1	0	1061	XP_018824522.1	signal recognition particle subunit SRP68	Juglans regia	XP_018824523.1
TRINITY_DN16866_c0_g1_i1_6	3,58E-36	125	XP_018848532.1	fatty-acid-binding protein 3, chloroplastic isoform X3	Juglans regia	XP_018848525.1
TRINITY_DN13956_c0_g1_i1_2	6,74E-46	154	XP_018820907.1	clathrin interactor 1	Juglans regia	ONI26712.1
TRINITY_DN4399_c0_g1_i1_6	1,96E-30	113	XP_018809603.1	syntaxin-22-like	Juglans regia	XP_018809113.1
TRINITY_DN10671_c0_g1_i5_2	0	708	XP_018825891.1	60S ribosomal export protein NMD3-like	Juglans regia	XP_018825892.1
TRINITY_DN3450_c0_g1_i1_1	0	596	XP_018814445.1	probable phosphoribosylformylglycinamidine synthase, chloroplastic/mitochondrial	Juglans regia	XP_018814446.1
TRINITY_DN19533_c0_g1_i1_2	1,31E-64	213	XP_018830097.1	exocyst complex component SEC10-like	Juglans regia	OAY49100.1
TRINITY_DN14184_c0_g1_i1_2	5,26E-65	216	OAY37958.1	hypothetical protein MANES_11G141000	Manihot esculenta	KRG89037.1
TRINITY_DN10011_c0_g2_i1_5	8,23E-42	147	XP_018817613.1	serine/arginine-rich splicing factor RSZ22-like	Juglans regia	KRH16159.1
TRINITY_DN10051_c0_g1_i3_2	0	529	XP_018858935.1	chaperone protein dnaJ 49-like	Juglans regia	XP_018858936.1
TRINITY_DN9084_c1_g1_i1_6	5,98E-147	416	XP_018813699.1	uncharacterized protein At2g38710-like	Juglans regia	XP_018835340.1
TRINITY_DN13392_c0_g1_i1_2	2,54E-110	333	XP_018851837.1	outer envelope protein 61	Juglans regia	KDP42955.1
TRINITY_DN5114_c0_g1_i1_5	0	565	XP_018834958.1	CLP protease regulatory subunit CLPX1, mitochondrial-like isoform X1	Juglans regia	XP_018834169.1
TRINITY_DN18316_c0_g1_i1_1	3,01E-124	369	XP_018832758.1	probable aminopyrimidine aminohydrolase, mitochondrial isoform X1	Juglans regia	XP_018832759.1
TRINITY_DN764_c0_g1_i1_4	2,02E-77	241	XP_018847165.1	CRIB domain-containing protein RIC7	Juglans regia	XP_012569758.1
TRINITY_DN10979_c0_g1_i3_3	0	672	XP_014490708.1	alpha-1,4-glucan-protein synthase [UDP-forming]	Vigna radiata var. radiata	KYP69807.1
TRINITY_DN10800_c0_g1_i2_2	0	787	XP_018813340.1	diphosphomevalonate decarboxylase MVD2-like isoform X2	Juglans regia	XP_018813339.1

TRINITY_DN14978_c0_g1_i1_4	5,38E-33	117	XP_018857909.1	protein transport protein Sec23A-like, partial	Juglans regia	XP_017185486.1
TRINITY_DN6214_c0_g1_i1_1	1,30E-148	421	XP_018812149.1	Golgi SNAP receptor complex member 1-1-like	Juglans regia	XP_008228765.1
TRINITY_DN14988_c0_g2_i1_4	4,15E-57	181	XP_008393190.1	2-isopropylmalate synthase 1, chloroplastic-like	Malus domestica	XP_008232677.1
TRINITY_DN6278_c0_g1_i1_2	8,01E-162	461	XP_018838848.1	inositol-tetrakisphosphate 1-kinase 1-like	Juglans regia	XP_018838851.1
TRINITY_DN6964_c0_g1_i1_1	2,12E-155	442	KDP39208.1	hypothetical protein JCGZ_00965	Jatropha curcas	XP_012070932.1
TRINITY_DN3722_c0_g1_i1_4	2,10E-167	469	XP_018857023.1	persulfide dioxygenase ETHE1 homolog, mitochondrial	Juglans regia	XP_018857027.1
TRINITY_DN22328_c0_g1_i1_3						
TRINITY_DN18052_c0_g2_i1_1	8,78E-157	442	XP_008228852.1	uncharacterized protein LOC103328234 isoform X1	Prunus mume	ONI16530.1
TRINITY_DN11467_c0_g1_i1_1	8,09E-45	162	OAY31944.1	hypothetical protein MANES_14G154000	Manihot esculenta	XP_018820842.1
TRINITY_DN15189_c0_g1_i1_3	4,27E-72	238	XP_018830674.1	uncharacterized protein LOC108998567 isoform X2	Juglans regia	XP_018830675.1
TRINITY_DN14289_c0_g2_i1_2	2,00E-63	213	XP_018814445.1	probable phosphoribosylformylglycinamidine synthase, chloroplastic/mitochondrial	Juglans regia	XP_018814446.1
TRINITY_DN1005_c0_g1_i2_3	3,12E-77	228	XP_007138997.1	hypothetical protein PHAVU_009G256100g	Phaseolus vulgaris	ESW10991.1
TRINITY_DN3819_c0_g1_i2_3	0	824	XP_018808839.1	pyridoxine/pyridoxamine 5'-phosphate oxidase 1, chloroplastic isoform X1	Juglans regia	XP_018808840.1
TRINITY_DN7943_c0_g1_i2_2	0	932	XP_018859360.1	calcium-transporting ATPase 9, plasma membrane-type-like isoform X2	Juglans regia	OIW09320.1
TRINITY_DN2112_c0_g2_i1_6	1,00E-40	148	XP_018831617.1	transportin MOS14-like isoform X2	Juglans regia	XP_018831616.1
TRINITY_DN10350_c1_g1_i4_2	4,11E-110	328	XP_018814268.1	IST1 homolog isoform X2	Juglans regia	XP_018814267.1
TRINITY_DN6884_c1_g3_i1_2	0	555	XP_018833006.1	dehydrogenase/reductase SDR family member 7 isoform X1	Juglans regia	XP_018833007.1
TRINITY_DN12265_c0_g1_i1_2	5,88E-81	245	XP_018857864.1	7-methylguanosine phosphate-specific 5'-nucleotidase A-like	Juglans regia	XP_018857865.1
TRINITY_DN21124_c0_g1_i3_3	2,60E-07	51,2	AES98826.1	sorting nexin 2B	Medicago truncatula	XP_003615868.1
TRINITY_DN9012_c0_g1_i1_4	0	580	XP_018839527.1	uncharacterized protein LOC109005179 isoform X1	Juglans regia	XP_018839528.1
TRINITY_DN9946_c0_g2_i4_3	0	1552	XP_018824886.1	sucrose synthase	Juglans regia	AIJ28960.1
TRINITY_DN5727_c0_g2_i1_6	2,11E-45	153	XP_018846161.1	uncharacterized protein LOC109009947	Juglans regia	KDP33741.1
TRINITY_DN12393_c0_g1_i1_4	4,43E-171	483	XP_018829738.1	apoptosis-inducing factor homolog B-like	Juglans regia	XP_008229851.1
TRINITY_DN4111_c0_g2_i1_2	5,60E-74	228	AFK39482.1	unknown	Lotus japonicus	XP_009361550.1
TRINITY_DN11057_c0_g8_i1_3	5,55E-133	375	AJT37390.1	ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit, partial (chloroplast)	Prunus davidiana	AJT37338.1
TRINITY_DN2598_c0_g2_i1_3	0	1206	XP_020411192.1	beta-galactosidase 9 isoform X2	Prunus persica	ONI28773.1
TRINITY_DN9900_c0_g1_i2_2	2,02E-86	262	XP_018834736.1	polyadenylate-binding protein-interacting protein 5-like	Juglans regia	XP_018834737.1

TRINITY_DN3402_c0_g1_i1_5	4,62E-34	124	XP_016202338.1	long chain acyl-CoA synthetase 6, peroxisomal	Arachis ipaensis	XP_015964764.1
TRINITY_DN9871_c0_g1_i2_2	3,10E-100	294	XP_018807876.1	uncharacterized protein LOC108981223	Juglans regia	XP_018827114.1
TRINITY_DN9274_c0_g1_i1_2	8,19E-155	439	XP_018849297.1	ribonuclease 2	Juglans regia	OAY34914.1
TRINITY_DN20612_c0_g1_i1_1	6,70E-46	155	XP_018859875.1	glycine-rich RNA-binding protein 3, mitochondrial	Juglans regia	XP_018859875.1
TRINITY_DN21955_c0_g1_i1_1	2,27E-60	202	XP_018834202.1	histidine--tRNA ligase, cytoplasmic	Juglans regia	KDP45604.1
TRINITY_DN7460_c0_g1_i1_6	7,21E-108	323	XP_008228667.1	COBW domain-containing protein 1	Prunus mume	KDP37034.1
TRINITY_DN6570_c0_g1_i1_6	2,82E-68	208	ACU13557.1	unknown	Glycine max	KRH60759.1
TRINITY_DN12116_c0_g1_i1_5	1,21E-60	206	XP_018848266.1	epidermal growth factor receptor substrate 15-like 1 isoform X2	Juglans regia	XP_018848264.1
TRINITY_DN18165_c0_g1_i1_3	2,00E-74	226	XP_018851955.1	uncharacterized protein LOC109014089	Juglans regia	XP_018806985.1
TRINITY_DN19285_c0_g1_i1_2	3,79E-176	494	XP_018850920.1	bifunctional phosphatase IMPL2, chloroplastic-like	Juglans regia	XP_018815280.1
TRINITY_DN4092_c0_g1_i1_3	9,65E-18	82,4	XP_018847499.1	ATP-dependent Clp protease ATP-binding subunit CLPT2, chloroplastic	Juglans regia	KHN42727.1
TRINITY_DN4871_c0_g1_i1_3	1,20E-75	232	XP_018815686.1	2-oxoglutarate-Fe(II) type oxidoreductase-like	Juglans regia	XP_018821188.1
TRINITY_DN23190_c0_g1_i1_4	3,29E-60	187	1818937063|gb|QIH97370.1	CYP01, partial	Betula pendula	XP_020215963.1
TRINITY_DN2267_c0_g1_i1_5	0	1376	KDP23611.1	hypothetical protein JCGZ_23444	Jatropha curcas	XP_012089192.1
TRINITY_DN12570_c0_g1_i1_4	4,78E-67	211	XP_018844982.1	PI-PLC X domain-containing protein At5g67130	Juglans regia	KDP31946.1
TRINITY_DN19686_c0_g1_i1_5	3,20E-65	216	XP_018838814.1	insulin-degrading enzyme-like 1, peroxisomal	Juglans regia	GAU30047.1
TRINITY_DN15214_c0_g1_i1_3	3,65E-41	136	XP_018822768.1	caffeic acid 3-O-methyltransferase-like	Juglans regia	XP_018829884.1
TRINITY_DN18839_c0_g1_i1_6	2,40E-66	201	KRH28044.1	hypothetical protein GLYMA_11G031200	Glycine max	CAY07947.1
TRINITY_DN12937_c0_g1_i1_3	6,71E-58	196	XP_018825635.1	translation initiation factor eIF-2B subunit epsilon isoform X2	Juglans regia	XP_018825636.1
TRINITY_DN3038_c0_g1_i1_4	7,63E-153	435	XP_018850543.1	beta-glucuronosyltransferase GlcAT14B-like	Juglans regia	XP_018850551.1
TRINITY_DN3285_c0_g1_i1_1	9,78E-129	404	XP_018859288.1	E3 ubiquitin-protein ligase UPL2-like	Juglans regia	XP_007141284.1
TRINITY_DN4341_c0_g1_i1_2	1,82E-62	198	XP_018839261.1	translation initiation factor eIF-2B subunit alpha	Juglans regia	OAY36332.1
TRINITY_DN5664_c0_g1_i1_3	5,36E-117	359	XP_018843108.1	protein lsd90	Juglans regia	XP_008224596.1
TRINITY_DN3970_c0_g1_i1_1	4,33E-79	243	XP_018835712.1	uncharacterized membrane protein At1g06890-like	Juglans regia	XP_018835713.1
TRINITY_DN12410_c0_g1_i1_6	0	579	XP_018846318.1	cinnamoyl-CoA reductase 1-like	Juglans regia	KDP41979.1
TRINITY_DN4354_c0_g1_i1_4	8,27E-49	163	KDP28778.1	hypothetical protein JCGZ_14549	Jatropha curcas	XP_012083605.1
TRINITY_DN9720_c0_g1_i6_2	1,95E-50	165	XP_018815216.1	U1 small nuclear ribonucleoprotein A-like	Juglans regia	XP_018843610.1
TRINITY_DN22980_c0_g1_i1_3	1,25E-30	118	XP_018830674.1	uncharacterized protein LOC108998567 isoform X2	Juglans regia	XP_018830673.1
TRINITY_DN9256_c0_g1_i4_1	0	615	XP_018826937.1	uncharacterized protein LOC108995769	Juglans regia	XP_008229750.1
TRINITY_DN8333_c0_g1_i1_3	1,72E-70	222	XP_018826609.1	activating signal cointegrator 1	Juglans regia	ACU17315.1
TRINITY_DN294_c0_g1_i1_2	0	595	XP_018824318.1	ubiquitin carboxyl-terminal hydrolase 9-like	Juglans regia	XP_018817088.1

TRINITY_DN8005_c0_g1_i2_2	1,53E-151	426	XP_018847846.1	ras-related protein Rab7 isoform X1	Juglans regia	XP_018847847.1
TRINITY_DN17859_c0_g1_i1_3	1,75E-12	63,2	XP_018841427.1	uncharacterized protein LOC109006562	Juglans regia	GAU32297.1
TRINITY_DN1542_c0_g1_i1_6	1,06E-62	203	XP_008231569.2	probable inactive purple acid phosphatase 27	Prunus mume	XP_018820767.1
TRINITY_DN7035_c1_g2_i1_3	0	746	XP_018843045.1	AT-rich interactive domain-containing protein 6 isoform X1	Juglans regia	XP_018843046.1
TRINITY_DN19252_c0_g1_i1_4	4,16E-58	196	XP_018830059.1	alpha,alpha-trehalose-phosphate synthase [UDP-forming] 1-like isoform X4	Juglans regia	XP_018830058.1
TRINITY_DN1690_c0_g1_i2_5	0	703	XP_018820372.1	translation initiation factor eIF-2B subunit beta-like isoform X1	Juglans regia	XP_018820373.1
TRINITY_DN18166_c0_g1_i1_4	6,06E-17	77,8	AES99208.1	zinc ion-binding protein	Medicago truncatula	XP_003616250.1
TRINITY_DN9981_c1_g1_i1_3	6,51E-127	366	XP_018815961.1	vacuolar protein sorting-associated protein 28 homolog 2	Juglans regia	XP_018815962.1
TRINITY_DN8032_c0_g1_i1_2	0	611	XP_018818273.1	metal tolerance protein 4-like	Juglans regia	XP_018834606.1
TRINITY_DN10046_c0_g2_i1_4	2,51E-162	459	XP_018845168.1	uric acid degradation bifunctional protein TTL isoform X2	Juglans regia	XP_018845167.1
TRINITY_DN21517_c0_g1_i1_4	8,40E-99	301	XP_018828206.1	peptidyl-prolyl cis-trans isomerase FKBP62-like	Juglans regia	XP_018828206.1
TRINITY_DN316_c0_g1_i1_1	2,91E-64	201	XP_018812502.1	putative SNAP25 homologous protein SNAP30	Juglans regia	KHN48724.1
TRINITY_DN8057_c0_g1_i2_5	0	533	XP_018806434.1	gamma-soluble NSF attachment protein-like	Juglans regia	XP_008225700.1
TRINITY_DN22718_c0_g1_i1_2	1,80E-24	99	XP_018844938.1	ADP-ribosylation factor GTPase-activating protein AGD12-like	Juglans regia	XP_018844939.1
TRINITY_DN5217_c0_g1_i1_4	0	575	XP_018819506.1	4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase (ferredoxin), chloroplastic	Juglans regia	XP_018819507.1
TRINITY_DN8159_c0_g2_i1_1	1,51E-75	227	AFK38803.1	unknown	Lotus japonicus	KRH00272.1
TRINITY_DN2797_c0_g2_i1_4	1,10E-163	463	XP_008360906.1	uncharacterized protein LOC103424589	Malus domestica	XP_018858950.1
TRINITY_DN3030_c0_g1_i1_6	0	819	XP_018823023.1	NADH dehydrogenase [ubiquinone] complex I, assembly factor 7	Juglans regia	KDP45470.1
TRINITY_DN16052_c0_g1_i1_2	1,70E-86	253	XP_007132547.1	hypothetical protein PHAVU_011G1037000g, partial	Phaseolus vulgaris	ESW04541.1
TRINITY_DN8771_c0_g1_i1_2	2,83E-93	285	KDP39067.1	hypothetical protein JCGZ_00824	Jatropha curcas	XP_008365610.1
TRINITY_DN5711_c0_g2_i1_5	2,26E-84	255	XP_016166363.1	cytochrome c oxidase assembly protein COX11, mitochondrial	Arachis ipaensis	XP_016166364.1
TRINITY_DN11595_c1_g1_i1_3	0	1071	XP_018828763.1	protein NRT1/ PTR FAMILY 8.3-like	Juglans regia	ONI31929.1
TRINITY_DN18730_c0_g1_i1_1	9,14E-88	272	XP_018822599.1	electron transfer flavoprotein-ubiquinone oxidoreductase, mitochondrial isoform X2	Juglans regia	XP_018822598.1
TRINITY_DN5685_c0_g1_i4_5	6,81E-100	295	ACU18395.1	unknown	Glycine max	XP_012084998.1
TRINITY_DN11028_c0_g3_i1_3	4,46E-141	399	OAY62531.1	hypothetical protein MANES_01G274300	Manihot esculenta	AFK48486.1
TRINITY_DN5255_c1_g1_i1_4	2,26E-59	184	XP_008246172.1	serine hydroxymethyltransferase 3, chloroplastic-like, partial	Prunus mume	KYP52446.1
TRINITY_DN10013_c0_g1_i4_2	2,01E-165	464	XP_018820232.1	very-long-chain 3-oxoacyl-CoA reductase 1	Juglans regia	OAY32455.1

TRINITY_DN6316_c0_g1_i4_3	0	838	XP_018840171.1	actin-related protein 4-like	Juglans regia	XP_018825389.1
TRINITY_DN7363_c0_g1_i1_3	0	804	XP_018816542.1	uncharacterized protein LOC108987901 isoform X1	Juglans regia	KDP21813.1
TRINITY_DN18596_c0_g1_i1_5	1,05E-108	326	OIV90433.1	hypothetical protein TanjilG_01911	Lupinus angustifolius	XP_019426881.1
TRINITY_DN17114_c0_g1_i1_1	3,16E-38	134	XP_018828255.1	LOW QUALITY PROTEIN: protein TIC 22-like, chloroplastic	Juglans regia	XP_009373582.1
TRINITY_DN19946_c0_g1_i1_4	0	536	XP_018818905.1	probable trans-2-enoyl-CoA reductase, mitochondrial isoform X1	Juglans regia	OAY37907.1
TRINITY_DN8995_c0_g1_i1_3	0	841	XP_018813899.1	proteasome activator subunit 4-like	Juglans regia	XP_008359029.2
TRINITY_DN9650_c0_g1_i1_1	0	542	XP_018822229.1	protein WVD2-like 6 isoform X2	Juglans regia	XP_018822227.1
TRINITY_DN7338_c0_g3_i1_2	3,58E-78	257	XP_008237688.1	putative transcription elongation factor SPT5 homolog 1	Prunus mume	ONH89815.1
TRINITY_DN4072_c0_g2_i1_2	3,94E-172	530	XP_018837736.1	protein MODIFIER OF SNC1 1-like isoform X2	Juglans regia	XP_018837729.1
TRINITY_DN2062_c0_g1_i1_6	2,87E-136	403	OAY52772.1	hypothetical protein MANES_04G109900	Manihot esculenta	XP_009334631.1
TRINITY_DN5791_c1_g1_i1_2	2,45E-71	227	XP_018822123.1	xylulose kinase	Juglans regia	XP_018822124.1
TRINITY_DN6320_c0_g2_i1_1	0	541	XP_018839054.1	probable rhamnogalacturonate lyase B	Juglans regia	XP_018842495.1
TRINITY_DN6069_c0_g2_i1_6	4,02E-93	275	XP_018808825.1	uncharacterized protein LOC108982016	Juglans regia	XP_008238218.1
TRINITY_DN18724_c0_g1_i1_4	1,21E-86	259	OAY40689.1	hypothetical protein MANES_09G041800	Manihot esculenta	ONH95766.1
TRINITY_DN4227_c0_g1_i1_3	0	736	XP_018830819.1	uncharacterized protein LOC108998648	Juglans regia	ONI25150.1
TRINITY_DN18944_c0_g1_i1_1	2,90E-92	287	XP_018837769.1	pentatricopeptide repeat-containing protein At2g37230	Juglans regia	XP_018837770.1
TRINITY_DN9604_c0_g1_i3_3	4,04E-151	431	XP_018851110.1	uncharacterized protein At3g49720-like	Juglans regia	XP_018851111.1
TRINITY_DN19600_c0_g1_i1_6	4,85E-68	228	XP_018815969.1	granule-bound starch synthase 2, chloroplastic/amyloplastic-like	Juglans regia	XP_018813997.1
TRINITY_DN2329_c0_g1_i2_6	6,20E-82	259	XP_018851853.1	molybdopterin biosynthesis protein CNX1	Juglans regia	XP_018851854.1
TRINITY_DN827_c0_g1_i1_1	0	731	XP_018828741.1	regulator of nonsense transcripts UPF2	Juglans regia	XP_008233383.1
TRINITY_DN8908_c0_g1_i2_1	0	766	XP_018821636.1	arabinosyltransferase RRA3-like	Juglans regia	ONI32725.1
TRINITY_DN18109_c0_g1_i1_5	3,65E-62	206	KDP23937.1	hypothetical protein JCGZ_27097	Jatropha curcas	XP_012088555.1
TRINITY_DN11206_c0_g1_i2_4	2,70E-58	182	XP_018834275.1	uncharacterized protein At4g28440	Juglans regia	XP_018805198.1
TRINITY_DN18626_c1_g2_i1_2	1,03E-168	477	XP_018818706.1	26S proteasome regulatory subunit RPN13 isoform X2	Juglans regia	XP_018818704.1
TRINITY_DN21756_c0_g1_i1_1	9,83E-18	80,9	XP_018822873.1	nudix hydrolase 20, chloroplastic-like isoform X1	Juglans regia	XP_018822874.1
TRINITY_DN2355_c0_g1_i1_2	2,95E-92	276	XP_018831876.1	serine/threonine-protein kinase STY46-like isoform X2	Juglans regia	XP_018831875.1
TRINITY_DN2509_c0_g1_i1_1	0	702	XP_018805322.1	L-gulonolactone oxidase 2-like	Juglans regia	KRH06390.1
TRINITY_DN19715_c0_g1_i1_5	5,95E-25	98,2	XP_018845106.1	uncharacterized protein LOC109009176	Juglans regia	XP_008231154.1
TRINITY_DN4748_c0_g1_i1_2	0	719	XP_018851863.1	serine/threonine-protein phosphatase 7	Juglans regia	XP_012087578.1
TRINITY_DN21521_c1_g1_i1_3	1,56E-22	94,7	XP_018820196.1	uncharacterized protein LOC108990636	Juglans regia	KYP62920.1
TRINITY_DN5242_c0_g3_i1_6	0	719	XP_018833828.1	110 kDa U5 small nuclear ribonucleoprotein component CLO	Juglans regia	KYP57369.1
TRINITY_DN19260_c0_g1_i1_1	1,29E-52	181	XP_018807838.1	uncharacterized protein LOC108981175	Juglans regia	ONH92663.1
TRINITY_DN3078_c0_g1_i1_3	0	641	XP_018853672.1	methionine aminopeptidase 1A	Juglans regia	OAY62431.1
TRINITY_DN10865_c0_g2_i2_2	1,11E-87	263	XP_018838514.1	uncharacterized protein LOC109004430	Juglans regia	XP_019422537.1

TRINITY_DN17892_c1_g1_i1_5	8,88E-134	389	XP_018818227.1	serine carboxypeptidase-like 20	Juglans regia	XP_019449310.1
TRINITY_DN2656_c0_g1_i1_2	2,62E-50	175	XP_018851186.1	trafficking protein particle complex subunit 8 isoform X3	Juglans regia	XP_018851184.1
TRINITY_DN22169_c0_g1_i1_5	9,01E-29	109	OAY41043.1	hypothetical protein MANES_09G069500, partial	Manihot esculenta	XP_018812823.1
TRINITY_DN10693_c1_g1_i1_3	0	705	XP_018840893.1	transducin beta-like protein 2	Juglans regia	XP_018809678.1
TRINITY_DN7588_c0_g1_i2_5	9,29E-115	331	XP_018835502.1	transmembrane emp24 domain-containing protein p24delta3-like	Juglans regia	XP_008339346.1
TRINITY_DN1809_c0_g1_i1_3	0	679	XP_018847511.1	nudix hydrolase 3 isoform X1	Juglans regia	XP_018847513.1
TRINITY_DN10089_c0_g3_i1_3	0	751	XP_008228163.1	oligouridylate-binding protein 1B	Prunus mume	ONI15331.1
TRINITY_DN2082_c1_g1_i1_3	1,10E-53	184	XP_018826267.1	receptor-like protein kinase ANXUR2	Juglans regia	OAY27654.1
TRINITY_DN238_c0_g1_i1_3	6,04E-24	96,3	XP_018815084.1	2-methylene-furan-3-one reductase-like	Juglans regia	ACU18144.1
TRINITY_DN5724_c0_g2_i1_1	0	777	XP_018845876.1	probable beta-1,4-xylosyltransferase IRX10L isoform X1	Juglans regia	KHN17455.1
TRINITY_DN21573_c0_g1_i1_1	3,37E-15	73,9	XP_018808385.1	probable alkaline/neutral invertase D	Juglans regia	XP_008378785.1
TRINITY_DN11569_c0_g1_i2_3	4,31E-62	197	KDP21030.1	hypothetical protein JCGZ_21501	Jatropha curcas	XP_012091694.1
TRINITY_DN5094_c0_g1_i1_4	1,23E-63	194	XP_017434911.1	actin	Vigna angularis	AFP43695.1
TRINITY_DN19637_c0_g1_i1_4	5,06E-118	348	XP_018830337.1	ATP-dependent 6-phosphofructokinase 5, chloroplastic-like	Juglans regia	XP_018820958.1
TRINITY_DN4599_c0_g1_i1_1	0	835	XP_018839577.1	phospholipase D Z-like	Juglans regia	ONI32918.1
TRINITY_DN11898_c0_g1_i1_4	0	547	XP_018824800.1	CTP synthase-like	Juglans regia	XP_018824801.1
TRINITY_DN13648_c0_g1_i1_3	1,56E-52	176	XP_018815870.1	BAG family molecular chaperone regulator 7-like	Juglans regia	XP_018851941.1
TRINITY_DN22384_c0_g1_i1_6	1,39E-72	234	XP_018824673.1	uncharacterized protein LOC108994054 isoform X2	Juglans regia	XP_018824674.1
TRINITY_DN8593_c0_g1_i1_3	0	543	XP_018840607.1	uncharacterized protein LOC109005947	Juglans regia	XP_018826121.1
TRINITY_DN6624_c0_g2_i2_2	1,26E-151	437	XP_018834729.1	syntaxin-32	Juglans regia	XP_018834730.1
TRINITY_DN8264_c0_g1_i2_1	8,29E-127	392	XP_018850843.1	apoptotic chromatin condensation inducer in the nucleus-like isoform X3	Juglans regia	XP_018850843.1
TRINITY_DN7248_c0_g1_i1_5	2,44E-50	171	XP_018816030.1	cytochrome P450 CYP82D47-like	Juglans regia	XP_018846611.1
TRINITY_DN19832_c0_g1_i1_3	2,23E-67	223	KDP22648.1	hypothetical protein JCGZ_02490	Jatropha curcas	XP_012089904.1
TRINITY_DN23704_c0_g1_i1_6	1,05E-24	99,4	XP_018816821.1	2-hydroxyacyl-CoA lyase	Juglans regia	XP_008229283.1
TRINITY_DN15338_c0_g1_i1_3	1,38E-42	142	XP_018854121.1	pentatricopeptide repeat-containing protein At1g26460, mitochondrial-like, partial	Juglans regia	XP_018859839.1
TRINITY_DN9948_c0_g2_i1_3	1,30E-57	187	XP_018841100.1	chorismate mutase 1, chloroplastic-like	Juglans regia	XP_018840102.1
TRINITY_DN13388_c0_g1_i1_5	9,98E-71	223	XP_018809497.1	probable arabinosyltransferase ARAD1	Juglans regia	OAY58565.1
TRINITY_DN5559_c0_g1_i1_4	0	890	XP_018827750.1	zinc finger protein ZPR1-like	Juglans regia	XP_020202613.1
TRINITY_DN17697_c0_g1_i1_3	6,61E-64	201	XP_008228276.1	glyoxylate/succinic semialdehyde reductase 2, chloroplastic	Prunus mume	XP_018821557.1
TRINITY_DN5154_c0_g1_i1_5	7,00E-74	241	XP_018848228.1	serine/arginine-rich splicing factor SR45 isoform X2	Juglans regia	XP_018848227.1
TRINITY_DN20546_c0_g1_i1_1	1,07E-104	331	XP_018826303.1	ferredoxin-dependent glutamate synthase, chloroplastic-like isoform X2	Juglans regia	XP_018826298.1

TRINITY_DN6573_c0_g1_i1_4	0	662	XP_018848829.1	rhomboid-like protein 15	Juglans regia	XP_018851134.1
TRINITY_DN3293_c0_g1_i1_2	1,81E-166	483	XP_018841822.1	golgin candidate 2-like	Juglans regia	KDP41144.1
TRINITY_DN9459_c0_g2_i1_1	0	1064	XP_018831622.1	beta-glucosidase-like SFR2, chloroplastic isoform X1	Juglans regia	XP_018831623.1
TRINITY_DN4865_c0_g1_i1_1	2,77E-101	312	XP_018842148.1	putative clathrin assembly protein At4g02650	Juglans regia	XP_018851018.1
TRINITY_DN3689_c0_g2_i1_5	3,03E-152	434	XP_018813758.1	protein TIC 22, chloroplastic	Juglans regia	OAY22914.1
TRINITY_DN2686_c0_g1_i1_5	5,53E-96	286	XP_018834185.1	uncharacterized protein LOC109001389 isoform X1	Juglans regia	OAY58732.1
TRINITY_DN4162_c0_g1_i1_5	0	675	XP_018852272.1	nuclear pore complex protein NUP93A-like	Juglans regia	OAY36979.1
TRINITY_DN14842_c0_g1_i1_3	1,40E-37	137	XP_008233492.1	delta-1-pyrroline-5-carboxylate synthase	Prunus mume	ALT55651.1
TRINITY_DN1392_c0_g2_i1_1	0	598	XP_018815848.1	probable ubiquitin conjugation factor E4	Juglans regia	ONI19115.1
TRINITY_DN3303_c0_g1_i1_3	8,21E-118	353	KRH38150.1	hypothetical protein GLYMA_09G114500	Glycine max	KDP38447.1
TRINITY_DN5303_c0_g1_i1_3	5,01E-134	387	XP_018850136.1	developmentally-regulated G-protein 3	Juglans regia	XP_016162010.1
TRINITY_DN3626_c0_g3_i1_6	2,74E-74	224	XP_018845630.1	putative peptidyl-tRNA hydrolase PTRHD1	Juglans regia	XP_018817605.1
TRINITY_DN12852_c0_g1_i1_2	2,36E-137	404	XP_018808302.1	probable 26S protease regulatory subunit 10B isoform X2	Juglans regia	XP_018808301.1
TRINITY_DN16500_c0_g1_i1_3	2,23E-39	141	XP_018835573.1	presequence protease 1, chloroplastic/mitochondrial-like	Juglans regia	XP_004511282.1
TRINITY_DN13231_c0_g1_i1_1	3,24E-71	228	XP_018843888.1	transmembrane protein 184B	Juglans regia	XP_018843889.1
TRINITY_DN9164_c0_g1_i1_1	1,47E-47	161	XP_018836471.1	ferredoxin-thioredoxin reductase, variable chain, chloroplastic	Juglans regia	XP_018836479.1
TRINITY_DN6110_c0_g1_i2_1	2,55E-133	385	XP_018827350.1	deoxyhypusine hydroxylase	Juglans regia	XP_018827350.1
TRINITY_DN9679_c0_g2_i6_4	0	803	XP_018841362.1	squalene synthase-like isoform X1	Juglans regia	XP_018815354.1
TRINITY_DN185_c0_g1_i1_1	0	539	XP_018827553.1	cation/H(+) antiporter 15-like	Juglans regia	ONI14265.1
TRINITY_DN16939_c0_g1_i1_3	2,27E-38	137	AES72328.1	4-coumarate:CoA ligase-like protein	Medicago truncatula	XP_003602077.1
TRINITY_DN10156_c0_g1_i1_1	6,77E-71	235	XP_018805424.1	phosphomethylpyrimidine synthase, chloroplastic	Juglans regia	XP_018805432.1
TRINITY_DN9970_c0_g1_i3_1	2,07E-04	45,4	XP_018836017.1	THO complex subunit 4A-like	Juglans regia	XP_018823251.1
TRINITY_DN11182_c0_g1_i1_5	2,33E-67	208	XP_018825198.1	uncharacterized protein LOC108994434	Juglans regia	XP_018825199.1
TRINITY_DN6813_c0_g2_i1_6	0	1066	XP_018825750.1	aldehyde dehydrogenase 22A1	Juglans regia	XP_008223354.1
TRINITY_DN18653_c0_g1_i1_5	6,41E-23	101	XP_018834253.1	AP-4 complex subunit epsilon-like	Juglans regia	XP_008375399.1
TRINITY_DN17522_c0_g1_i1_4	1,66E-53	179	OIW18230.1	hypothetical protein TanjilG_06314	Lupinus angustifolius	XP_019458044.1
TRINITY_DN14413_c0_g1_i1_4	5,05E-49	158	XP_017183078.1	ruvB-like 2	Malus domestica	XP_017180148.1
TRINITY_DN5635_c0_g1_i1_5	0	763	OAY61248.1	hypothetical protein MANES_01G175100	Manihot esculenta	OAY61249.1
TRINITY_DN10294_c0_g1_i2_1	7,96E-154	439	XP_018811873.1	peroxisome biogenesis protein 22-like isoform X1	Juglans regia	KDP25866.1
TRINITY_DN19410_c0_g2_i1_2	1,70E-64	199	XP_018845496.1	lachrymatory-factor synthase-like	Juglans regia	XP_004501141.1
TRINITY_DN3519_c0_g1_i1_4	2,14E-144	414	XP_008243353.1	uncharacterized protein LOC103341587	Prunus mume	ONI31661.1
TRINITY_DN10650_c0_g1_i3_2	1,95E-28	108	XP_018827787.1	ylmG homolog protein 1-2, chloroplastic-like	Juglans regia	XP_008227970.1
TRINITY_DN3798_c0_g1_i2_1	0	531	XP_018813476.1	AP-1 complex subunit mu-2-like	Juglans regia	XP_016190265.1

TRINITY_DN2524_c0_g1_i1_2	1,46E-98	302	XP_018826310.1	peptide-N(4)-(N-acetyl-beta-glucosaminyl)asparagine amidase isoform X1	Juglans regia	XP_018826311.1
TRINITY_DN14304_c0_g1_i1_3	9,17E-06	45,8	XP_018830807.1	protein trichome birefringence-like 18	Juglans regia	XP_018830808.1
TRINITY_DN10946_c0_g1_i1_3	0	886	XP_018846000.1	histidinol dehydrogenase, chloroplastic isoform X1	Juglans regia	XP_018846001.1
TRINITY_DN4824_c0_g1_i1_6	5,59E-61	187	XP_018806648.1	histone deacetylase complex subunit SAP18-like, partial	Juglans regia	XP_014522945.1
TRINITY_DN1455_c0_g1_i1_5	8,59E-144	409	XP_018812413.1	uncharacterized protein LOC108984806	Juglans regia	OAY21731.1
TRINITY_DN19943_c0_g1_i1_1	1,73E-19	84,7	XP_018823987.1	peroxisomal and mitochondrial division factor 2-like	Juglans regia	XP_018823988.1
TRINITY_DN7659_c0_g1_i2_1	3,03E-65	199	XP_018835303.1	glycine-rich RNA-binding protein 4, mitochondrial-like	Juglans regia	XP_018835298.1
TRINITY_DN18303_c0_g1_i1_2	3,72E-16	79	XP_018805226.1	protein trichome birefringence-like 2	Juglans regia	ONI30408.1
TRINITY_DN7752_c0_g1_i1_1	6,08E-140	399	XP_018829221.1	uncharacterized protein LOC108997414	Juglans regia	OAY42346.1
TRINITY_DN3113_c0_g1_i1_2	8,77E-114	338	KDP40491.1	hypothetical protein JCGZ_24490	Jatropha curcas	XP_012068599.1
TRINITY_DN13954_c0_g1_i1_5	8,95E-105	310	XP_018842294.1	uncharacterized protein LOC109007179	Juglans regia	OIW20924.1
TRINITY_DN9113_c0_g1_i1_6	0	1004	XP_018850790.1	ABC transporter D family member 1-like isoform X3	Juglans regia	XP_018850790.1
TRINITY_DN2642_c0_g1_i1_1	0	566	OAY49731.1	hypothetical protein MANES_05G078500	Manihot esculenta	OAY61640.1
TRINITY_DN9696_c0_g1_i1_5	1,82E-64	200	XP_018856972.1	replication protein A 14 kDa subunit B-like	Juglans regia	XP_018856973.1
TRINITY_DN2508_c0_g1_i1_3	0	528	XP_018852462.1	serine racemase	Juglans regia	XP_008238865.1
TRINITY_DN8157_c0_g1_i1_3	3,94E-105	310	XP_018817798.1	CBS domain-containing protein CBSX1, chloroplastic-like	Juglans regia	XP_018817799.1
TRINITY_DN20773_c0_g1_i1_5	1,54E-69	226	XP_018858250.1	uncharacterized protein LOC109020252	Juglans regia	KHN23130.1
TRINITY_DN2427_c0_g1_i1_5	1,21E-93	282	XP_018807354.1	uncharacterized protein LOC108980800	Juglans regia	XP_018807362.1
TRINITY_DN566_c0_g2_i1_1	0	613	XP_018805839.1	dolichyl-phosphate beta-glucosyltransferase-like	Juglans regia	XP_018814490.1
TRINITY_DN1856_c0_g2_i1_3	9,73E-65	212	XP_018811690.1	neutral/alkaline invertase 3, chloroplastic-like	Juglans regia	XP_018811691.1
TRINITY_DN3611_c0_g1_i2_3	0	773	XP_018815648.1	pentatricopeptide repeat-containing protein At2g15690-like	Juglans regia	XP_018819012.1
TRINITY_DN8137_c0_g1_i1_6	3,99E-91	282	OAY49267.1	hypothetical protein MANES_05G042200	Manihot esculenta	OAY49266.1
TRINITY_DN4839_c0_g2_i1_2	1,30E-32	114	XP_018819611.1	uncharacterized protein LOC108990185	Juglans regia	OAY25146.1
TRINITY_DN10092_c0_g1_i1_3	0	687	XP_018812786.1	F-box protein SKIP16-like isoform X1	Juglans regia	XP_018822588.1
TRINITY_DN8102_c0_g1_i1_6	0	951	XP_018810077.1	ubiquitin fusion degradation protein 1	Juglans regia	XP_008229992.1
TRINITY_DN2436_c0_g1_i1_2	1,59E-154	440	XP_018850153.1	reticulon-4-interacting protein 1, mitochondrial-like isoform X1	Juglans regia	XP_018822796.1
TRINITY_DN9750_c0_g2_i3_3	4,42E-110	326	XP_009344066.1	polyadenylate-binding protein-interacting protein 12-like	Pyrus x bretschneideri	XP_009344066.1
TRINITY_DN13772_c0_g1_i1_5	3,24E-39	140	KHN38006.1	Topless-related protein 1	Glycine soja	XP_018840348.1
TRINITY_DN20973_c0_g1_i1_1	5,95E-37	130	XP_018810129.1	mitogen-activated protein kinase kinase 5-like	Juglans regia	XP_008229371.1
TRINITY_DN13500_c0_g1_i1_1	4,95E-88	272	XP_018838255.1	dnaJ homolog subfamily C member 2	Juglans regia	XP_008229529.1

TRINITY_DN19696_c0_g1_i1_1	1,17E-49	174	XP_018812876.1	ABC transporter C family member 3-like	Juglans regia	XP_018812887.1
TRINITY_DN18663_c0_g1_i1_3	1,64E-167	493	XP_018808616.1	phosphoenolpyruvate carboxylase 2	Juglans regia	AJP17168.1
TRINITY_DN10941_c0_g1_i2_2	6,04E-61	192	XP_018841839.1	uncharacterized protein LOC109006880	Juglans regia	XP_018841840.1
TRINITY_DN205_c0_g2_i1_3	1,73E-148	422	XP_018842270.1	N-(5'-phosphoribosyl)anthranilate isomerase 1, chloroplastic-like isoform X2	Juglans regia	XP_018842269.1
TRINITY_DN10620_c0_g1_i1_3	0	511	XP_018843207.1	peroxisomal adenine nucleotide carrier 1-like	Juglans regia	XP_018843209.1
TRINITY_DN12943_c0_g1_i1_3	8,56E-65	214	KDP29908.1	hypothetical protein JCGZ_18477	Jatropha curcas	XP_012081434.1
TRINITY_DN2735_c0_g1_i1_2	4,83E-115	348	XP_018826310.1	peptide-N(4)-(N-acetyl-beta-glucosaminyl)asparagine amidase isoform X1	Juglans regia	XP_018826311.1
TRINITY_DN15045_c0_g1_i1_3	5,31E-38	138	XP_018849759.1	ALG-2 interacting protein X-like	Juglans regia	XP_018849760.1
TRINITY_DN17024_c0_g1_i1_1	1,24E-66	211	XP_018819405.1	alanine--glyoxylate aminotransferase 2 homolog 2, mitochondrial-like	Juglans regia	XP_018813062.1
TRINITY_DN4004_c0_g1_i1_6	7,38E-116	340	XP_018824946.1	probable mediator of RNA polymerase II transcription subunit 26c	Juglans regia	XP_018824947.1
TRINITY_DN12269_c0_g2_i1_2	2,68E-123	357	XP_018841143.1	uncharacterized protein LOC109006342 isoform X1	Juglans regia	XP_018841144.1
TRINITY_DN9455_c0_g1_i1_6	9,01E-124	359	KDP42878.1	hypothetical protein JCGZ_23820	Jatropha curcas	XP_012066253.1
TRINITY_DN7173_c0_g2_i1_4	1,17E-177	516	XP_018824311.1	importin subunit beta-1-like	Juglans regia	XP_018835204.1
TRINITY_DN5388_c0_g2_i1_3	8,11E-45	149	XP_018830706.1	CDGSH iron-sulfur domain-containing protein NEET	Juglans regia	XP_020221377.1
TRINITY_DN10533_c0_g1_i4_1	0	755	XP_018834221.1	far upstream element-binding protein 2-like isoform X2	Juglans regia	XP_018834221.1
TRINITY_DN15880_c0_g1_i1_6	7,95E-37	134	XP_018816812.1	transportin MOS14 isoform X1	Juglans regia	XP_018816813.1
TRINITY_DN21652_c0_g1_i1_3	1,82E-32	122	XP_018825842.1	uncharacterized protein LOC108994897 isoform X4	Juglans regia	XP_018825838.1
TRINITY_DN22321_c0_g1_i1_6	1,04E-12	68,9	XP_018809403.1	homeobox protein HAT3.1	Juglans regia	XP_018809403.1
TRINITY_DN12098_c0_g2_i1_2	3,50E-63	205	XP_018807977.1	uncharacterized protein LOC108981316	Juglans regia	XP_008236697.1
TRINITY_DN6146_c0_g1_i2_4	3,61E-90	267	XP_009363132.1	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 3-like isoform X1	Pyrus x bretschneideri	XP_009363133.1
TRINITY_DN8428_c0_g1_i1_3	0	648	XP_018813445.1	probable beta-D-xylosidase 6	Juglans regia	XP_008236660.1
TRINITY_DN17847_c0_g2_i1_2	3,28E-170	508	XP_018841626.1	uncharacterized protein LOC109006713	Juglans regia	KDP23248.1
TRINITY_DN4796_c0_g1_i1_2	2,84E-77	236	XP_018847950.1	uncharacterized protein LOC109011278	Juglans regia	XP_018831509.1
TRINITY_DN5072_c0_g1_i1_1	4,42E-110	324	XP_018808361.1	50S ribosomal protein L3-2, chloroplastic-like	Juglans regia	XP_008223504.1
TRINITY_DN6088_c0_g1_i4_1	5,47E-150	424	XP_018829327.1	transport and Golgi organization 2 homolog	Juglans regia	XP_008372850.1
TRINITY_DN15797_c0_g1_i1_2	1,03E-59	190	XP_018858693.1	traB domain-containing protein-like	Juglans regia	XP_018820413.1
TRINITY_DN18297_c0_g2_i1_1	0	577	XP_018811142.1	mevalonate kinase	Juglans regia	XP_008246488.1
TRINITY_DN17041_c0_g1_i1_1	2,43E-150	429	XP_018836516.1	caffeoylshikimate esterase-like	Juglans regia	XP_018828026.1
TRINITY_DN7113_c0_g1_i3_4	2,00E-72	219	XP_018858971.1	mitochondrial import inner membrane translocase subunit Tim16	Juglans regia	KDP42870.1

TRINITY_DN12379_c0_g1_i1_3	5,87E-47	159	XP_018833231.1	5'-nucleotidase domain-containing protein DDB_G0275467 isoform X3	Juglans regia	XP_018833232.1
TRINITY_DN15487_c0_g1_i1_3	2,60E-31	120	XP_018831313.1	WD repeat-containing protein 44-like	Juglans regia	AES79256.1
TRINITY_DN3915_c0_g1_i1_3	3,06E-111	320	XP_018813585.1	protein transport protein SFT2-like	Juglans regia	XP_018825801.1
TRINITY_DN11583_c1_g3_i2_2	0	556	XP_018817582.1	casein kinase 1-like protein 1	Juglans regia	XP_018845405.1
TRINITY_DN11439_c0_g1_i3_4	2,37E-169	474	XP_018824239.1	proteasome subunit beta type-4-like	Juglans regia	XP_018844541.1
TRINITY_DN7466_c0_g3_i1_3	0	1048	XP_018842944.1	ATP-dependent zinc metalloprotease FTSH 9, chloroplastic-like	Juglans regia	ONH99982.1
TRINITY_DN11372_c0_g1_i1_1	0	602	XP_018848836.1	uncharacterized protein LOC109011909 isoform X1	Juglans regia	XP_018848837.1
TRINITY_DN2241_c0_g1_i1_2	1,05E-79	245	XP_018828611.1	uncharacterized protein LOC108996994	Juglans regia	XP_018819156.1
TRINITY_DN2564_c0_g1_i1_3	0	936	XP_018816881.1	WPP domain-interacting tail-anchored protein 1-like	Juglans regia	XP_018816882.1
TRINITY_DN4503_c0_g1_i1_2	1,58E-72	226	ONI27712.1	hypothetical protein PRUPE_1G100900	Prunus persica	XP_007222683.1
TRINITY_DN8115_c0_g1_i1_2	0	1428	XP_018832818.1	general negative regulator of transcription subunit 3 isoform X2	Juglans regia	XP_018832816.1
TRINITY_DN271_c0_g1_i1_6	2,20E-34	127	XP_018842163.1	beta-xylosidase/alpha-L-arabinofuranosidase 2-like	Juglans regia	OAY52100.1
TRINITY_DN12627_c0_g1_i1_5	5,08E-70	222	XP_018837869.1	coumaroyl-CoA:anthocyanidin 3-O-glucoside-6''-O-coumaroyltransferase 1-like	Juglans regia	KRH22466.1
TRINITY_DN6168_c0_g2_i1_3	6,65E-110	320	XP_018845283.1	4-hydroxy-tetrahydrodipicolinate reductase 2, chloroplastic-like	Juglans regia	KDP26187.1
TRINITY_DN15083_c0_g1_i1_4	1,26E-30	116	XP_018807197.1	uncharacterized protein LOC108980650	Juglans regia	KHN15602.1
TRINITY_DN22088_c0_g1_i1_2	7,30E-26	103	XP_018841295.1	kinase-interacting protein 1-like	Juglans regia	XP_020216020.1
TRINITY_DN10295_c0_g1_i4_2	6,79E-38	132	XP_018845364.1	uncharacterized protein LOC109009365	Juglans regia	XP_008232032.1
TRINITY_DN13908_c0_g1_i1_1	1,03E-80	248	XP_009375745.2	5'-nucleotidase domain-containing protein DDB_G0275467 isoform X2	Pyrus x bretschneideri	XP_017187537.1
TRINITY_DN250_c0_g2_i1_3	1,07E-35	133	ONH93446.1	hypothetical protein PRUPE_8G233000	Prunus persica	XP_020426420.1
TRINITY_DN9708_c0_g1_i1_2	0	875	XP_018818699.1	serine carboxypeptidase II-2	Juglans regia	XP_008243035.1
TRINITY_DN14410_c0_g1_i1_1	1,85E-34	129	OIW08904.1	hypothetical protein TanjilG_05880	Lupinus angustifolius	XP_019448393.1
TRINITY_DN2548_c0_g2_i1_4	0	673	KDP28658.1	hypothetical protein JCGZ_14429	Jatropha curcas	XP_012083434.1
TRINITY_DN6286_c0_g1_i1_1	2,13E-39	137	XP_018812884.1	putative UDP-sugar transporter DDB_G0278631	Juglans regia	XP_018822183.1
TRINITY_DN17369_c0_g1_i1_5	3,98E-72	237	XP_018822483.1	uncharacterized protein DDB_G0283697-like	Juglans regia	XP_018826899.1
TRINITY_DN8472_c0_g1_i1_2	9,61E-86	258	XP_018809112.1	binding partner of ACD11 1-like	Juglans regia	KDP28936.1
TRINITY_DN4972_c0_g1_i4_1	0	785	XP_009368358.1	serine/threonine-protein phosphatase BSL3	Pyrus x bretschneideri	XP_008385576.1
TRINITY_DN9379_c0_g1_i3_2	2,04E-57	184	XP_018859928.1	peroxisome biogenesis protein 19-2-like	Juglans regia	XP_015933903.1
TRINITY_DN23442_c0_g1_i1_5	5,23E-28	103	XP_018837143.1	uncharacterized protein LOC109003443 isoform X5	Juglans regia	XP_018837137.1
TRINITY_DN20268_c0_g1_i1_5	8,58E-45	157	XP_018842469.1	probable glutamyl endopeptidase, chloroplastic isoform X1	Juglans regia	XP_018842470.1
TRINITY_DN2087_c1_g1_i1_3	4,02E-158	448	XP_018851393.1	uncharacterized protein LOC109013683	Juglans regia	XP_018851394.1

TRINITY_DN9218_c0_g1_i7_3	0	1042	XP_018857360.1	pre-mRNA-processing factor 19-like isoform X1	Juglans regia	XP_018807788.1
TRINITY_DN12527_c0_g1_i1_2	5,29E-109	328	XP_018833558.1	uncharacterized protein LOC109000940	Juglans regia	XP_008352247.1
TRINITY_DN22389_c0_g1_i1_6	1,44E-06	49,7	XP_018849371.1	protein ELC-like	Juglans regia	
TRINITY_DN9732_c0_g1_i3_2	4,88E-116	333	XP_018859435.1	trafficking protein particle complex subunit 6B	Juglans regia	XP_020208519.1
TRINITY_DN9091_c0_g1_i1_3	9,51E-11	60,1	XP_018856978.1	uncharacterized protein LOC109019191 isoform X2	Juglans regia	XP_018856977.1
TRINITY_DN1560_c0_g1_i1_1	6,48E-101	300	XP_018816582.1	uncharacterized protein LOC108987951	Juglans regia	XP_009365025.1
TRINITY_DN14904_c0_g1_i1_6	4,91E-50	166	XP_018834985.1	thioredoxin reductase 1-like	Juglans regia	KRH28954.1
TRINITY_DN12383_c0_g1_i1_2	4,09E-37	135	XP_018835537.1	dnaJ homolog subfamily C member 2-like	Juglans regia	XP_018842014.1
TRINITY_DN5000_c0_g1_i1_6	0	1019	XP_018814165.1	peroxisome biogenesis protein 5	Juglans regia	KDP29519.1
TRINITY_DN2849_c0_g1_i1_4	0	637	XP_018824599.1	adenylyltransferase and sulfurtransferase MOCS3	Juglans regia	XP_015973067.1
TRINITY_DN11583_c1_g1_i2_1	0	793	XP_018835116.1	casein kinase 1-like protein 2	Juglans regia	ONI15496.1
TRINITY_DN11555_c0_g1_i1_4	0	2027	XP_008231249.1	cellulose synthase A catalytic subunit 3 [UDP-forming]	Prunus mume	XP_008231250.1
TRINITY_DN11211_c0_g2_i4_2	5,48E-81	246	XP_018845966.1	REF/SRPP-like protein At1g67360 isoform X1	Juglans regia	XP_018845967.1
TRINITY_DN10288_c0_g2_i1_3	4,76E-107	326	XP_018819413.1	uncharacterized protein LOC108990025 isoform X2	Juglans regia	XP_018819412.1
TRINITY_DN16723_c0_g1_i1_1	3,07E-31	118	XP_018841898.1	probable starch synthase 4, chloroplastic/amyloplastic	Juglans regia	XP_014490146.1
TRINITY_DN5420_c0_g1_i1_2	0	815	XP_018832761.1	inositol phosphorylceramide glucuronosyltransferase 1	Juglans regia	ONI05028.1
TRINITY_DN15186_c0_g1_i1_2	4,57E-70	213	XP_009352822.1	uncharacterized protein LOC103944136	Pyrus x bretschneideri	XP_018838494.1
TRINITY_DN6233_c0_g1_i4_1	2,13E-128	376	XP_018815872.1	probable mitochondrial saccharopine dehydrogenase-like oxidoreductase At5g39410	Juglans regia	ONI19128.1
TRINITY_DN4088_c0_g1_i1_1	0	843	XP_018808493.1	mechanosensitive ion channel protein 1, mitochondrial	Juglans regia	XP_018808494.1
TRINITY_DN1341_c0_g1_i2_3	3,09E-19	79	KYP46136.1	hypothetical protein KK1_032303	Cajanus cajan	KDP39739.1
TRINITY_DN5675_c0_g1_i3_1	1,40E-176	498	XP_018855654.1	survival of motor neuron-related-splicing factor 30 isoform X1	Juglans regia	XP_008218638.1
TRINITY_DN5431_c0_g2_i1_2	4,06E-138	406	XP_018818099.1	probable E3 ubiquitin-protein ligase LOG2	Juglans regia	OAY42666.1
TRINITY_DN9005_c1_g1_i3_1	0	644	XP_018822849.1	sodium/pyruvate cotransporter BASS2, chloroplastic isoform X1	Juglans regia	XP_018822850.1
TRINITY_DN22172_c0_g1_i1_3	9,05E-19	84	XP_018856996.1	golgin candidate 5-like	Juglans regia	XP_018837529.1
TRINITY_DN5643_c0_g2_i1_3	0	708	XP_018813681.1	cell division protein FtsZ homolog 2-2, chloroplastic	Juglans regia	XP_018813682.1
TRINITY_DN18093_c0_g1_i1_1	2,24E-127	365	XP_017182893.1	exocyst complex component SEC8-like	Malus domestica	OAY59728.1
TRINITY_DN8505_c0_g1_i1_3	8,18E-92	272	XP_018818253.1	bifunctional bis(5'-adenosyl)-triphosphatase/adenylylsulfatase FHIT	Juglans regia	XP_019439570.1

TRINITY_DN3938_c0_g1_i1_2	0	690	XP_018831176.1	uncharacterized Rho GTPase-activating protein At5g61530-like isoform X2	Juglans regia	XP_018831175.1
TRINITY_DN11081_c0_g1_i2_3	0	624	XP_018823256.1	protein kinase APK1A, chloroplastic-like isoform X3	Juglans regia	XP_018823257.1
TRINITY_DN8657_c0_g1_i1_3	4,23E-71	215	XP_018825467.1	ankyrin repeat-containing protein P16F5.05c isoform X2	Juglans regia	XP_020418677.1
TRINITY_DN18007_c0_g1_i1_2	1,43E-87	261	XP_018848880.1	uncharacterized protein LOC109011934	Juglans regia	XP_018848881.1
TRINITY_DN11493_c0_g1_i3_3	8,48E-86	255	XP_008241493.1	ras-related protein RABE1a	Prunus mume	XP_008387728.1
TRINITY_DN11659_c1_g1_i3_5	0	979	XP_018831593.1	aldehyde dehydrogenase family 2 member B4, mitochondrial isoform X1	Juglans regia	XP_018831594.1
TRINITY_DN11367_c0_g1_i1_2	1,04E-167	473	XP_018805726.1	uncharacterized protein LOC108979494	Juglans regia	OAY61686.1
TRINITY_DN14035_c0_g1_i1_1	1,55E-19	86,3	XP_009350736.1	protein STRUBBELIG-RECEPTOR FAMILY 3-like isoform X1	Pyrus x bretschneideri	XP_009350742.1
TRINITY_DN7672_c0_g2_i3_6	0	548	XP_018831761.1	COP9 signalosome complex subunit 2	Juglans regia	XP_004493278.1
TRINITY_DN4363_c0_g1_i1_2	0	1005	XP_018836397.1	probable acyl-activating enzyme 1, peroxisomal isoform X1	Juglans regia	ONH90064.1
TRINITY_DN9570_c0_g1_i2_6	0	873	XP_018810880.1	GBF-interacting protein 1-like isoform X2	Juglans regia	XP_018810879.1
TRINITY_DN12047_c0_g1_i1_5	9,56E-68	216	XP_018835604.1	armadillo repeat-containing protein 6	Juglans regia	XP_004498168.1
TRINITY_DN8161_c0_g1_i1_2	1,13E-104	307	XP_018845119.1	uncharacterized protein LOC109009183 isoform X1	Juglans regia	XP_018845108.1
TRINITY_DN9497_c1_g1_i1_5	5,60E-38	127	XP_018815228.1	mitochondrial zinc maintenance protein 1, mitochondrial	Juglans regia	XP_008235091.1
TRINITY_DN18064_c0_g1_i1_5	3,44E-64	215	XP_018818865.1	uncharacterized protein LOC108989641	Juglans regia	XP_007132178.1
TRINITY_DN3901_c0_g1_i1_6	3,05E-50	163	XP_018859305.1	uncharacterized protein C6C3.02c-like isoform X1	Juglans regia	XP_018859307.1
TRINITY_DN9544_c0_g1_i2_3	2,91E-109	317	OAY27343.1	hypothetical protein MANES_16G118300	Manihot esculenta	KDP33636.1
TRINITY_DN5823_c2_g1_i1_1	1,82E-49	173	XP_018806543.1	isoleucine--tRNA ligase, cytoplasmic	Juglans regia	XP_008222579.1
TRINITY_DN10520_c0_g1_i1_2	0	1111	XP_018814583.1	conserved oligomeric Golgi complex subunit 6	Juglans regia	KDP37812.1
TRINITY_DN11739_c0_g2_i1_5	1,07E-60	203	XP_018837001.1	RAN GTPase-activating protein 1	Juglans regia	XP_018837002.1
TRINITY_DN950_c0_g2_i1_5	8,17E-88	281	XP_018825599.1	nuclear export mediator factor NEMF-like	Juglans regia	XP_018856628.1
TRINITY_DN1342_c0_g2_i1_1	1,92E-162	472	OAY47836.1	hypothetical protein MANES_06G109500	Manihot esculenta	KHN34349.1
TRINITY_DN10787_c0_g2_i1_6	0	652	XP_018844870.1	UDP-glycosyltransferase 71K1-like	Juglans regia	KYP72899.1
TRINITY_DN15996_c0_g1_i1_5	4,04E-98	307	ONI09503.1	hypothetical protein PRUPE_5G241600	Prunus persica	ONI09502.1
TRINITY_DN13943_c0_g1_i1_2	4,19E-69	214	XP_016203508.1	prostaglandin E synthase 2	Arachis ipaensis	XP_020958475.1
TRINITY_DN4307_c0_g2_i2_3	0	990	KDP41268.1	hypothetical protein JCGZ_15675	Jatropha curcas	XP_012067735.1
TRINITY_DN13850_c0_g1_i1_2	3,13E-44	154	XP_018817793.1	polyadenylate-binding protein 8-like	Juglans regia	XP_018817793.1
TRINITY_DN22319_c0_g1_i1_6	1,68E-51	178	XP_018849426.1	uncharacterized protein LOC109012316	Juglans regia	OIV96914.1
TRINITY_DN19381_c0_g1_i1_1	0	640	XP_018829523.1	nuclear pore complex protein NUP155	Juglans regia	XP_008221462.1
TRINITY_DN17549_c0_g1_i1_3	9,36E-81	257	XP_009379451.1	outer envelope protein 80, chloroplastic-like	Pyrus x bretschneideri	XP_009376166.1
TRINITY_DN15080_c0_g2_i1_2	1,45E-87	264	XP_018811585.1	uncharacterized protein LOC108984165 isoform X2	Juglans regia	XP_018811577.1
TRINITY_DN18817_c0_g1_i1_6	5,87E-33	119	XP_018833631.1	eugenol synthase 1-like	Juglans regia	OAY25173.1

TRINITY_DN11009_c0_g1_i1_1	1,20E-50	172	XP_018805570.1	aspartyl protease family protein 2	Juglans regia	XP_008371957.1
TRINITY_DN8994_c0_g2_i2_3	6,32E-74	226	XP_018806489.1	universal stress protein A-like protein	Juglans regia	XP_009356253.1
TRINITY_DN17962_c0_g1_i1_6	1,46E-56	182	XP_018837748.1	diphthine methyltransferase homolog	Juglans regia	XP_018837749.1
TRINITY_DN7296_c0_g1_i1_3	3,61E-102	330	XP_018830148.1	nucleolin 2-like isoform X2	Juglans regia	XP_018830147.1
TRINITY_DN17826_c0_g2_i1_1	0	807	XP_018820470.1	3-phosphoinositide-dependent protein kinase 1-like	Juglans regia	XP_018853620.1
TRINITY_DN12326_c0_g1_i1_4	1,83E-82	254	XP_018815852.1	GDP-mannose transporter GONST3 isoform X2	Juglans regia	XP_018815851.1
TRINITY_DN2620_c0_g2_i2_2	3,11E-62	195	XP_008377079.1	small nuclear ribonucleoprotein SmD3b	Malus domestica	XP_008387870.1
TRINITY_DN2361_c0_g1_i1_2	2,81E-39	138	KDP47108.1	hypothetical protein JCGZ_03916	Jatropha curcas	XP_012069973.1
TRINITY_DN1411_c0_g1_i1_5	3,05E-172	495	XP_018834612.1	formate--tetrahydrofolate ligase	Juglans regia	KHN42246.1
TRINITY_DN11963_c0_g1_i1_5	7,68E-36	130	XP_018821632.1	chaperonin CPN60-like 2, mitochondrial isoform X1	Juglans regia	XP_008228292.1
TRINITY_DN9986_c0_g1_i2_1	0	683	XP_018807809.1	metal tolerance protein 10-like	Juglans regia	XP_018857914.1
TRINITY_DN3850_c0_g1_i1_2	0	753	XP_018850129.1	4-alpha-glucanotransferase, chloroplastic/amyloplastic	Juglans regia	XP_008232738.1
TRINITY_DN13162_c0_g1_i1_5	6,08E-126	384	XP_018825830.1	ubiquitin-activating enzyme E1 1-like isoform X2	Juglans regia	XP_018825828.1
TRINITY_DN6999_c1_g1_i1_1	5,63E-123	358	XP_018821643.1	uncharacterized protein LOC108991725	Juglans regia	XP_018848582.1
TRINITY_DN6417_c0_g2_i1_1	0	600	XP_018841012.1	probable ethanolamine kinase	Juglans regia	ONH98290.1
TRINITY_DN11852_c0_g1_i1_2	5,53E-171	483	XP_018845391.1	bifunctional protein FolD 4, chloroplastic	Juglans regia	OAY53286.1
TRINITY_DN3994_c0_g1_i1_6	1,85E-55	186	XP_004491215.1	stomatal closure-related actin-binding protein 1	Cicer arietinum	XP_006595782.1
TRINITY_DN10757_c0_g1_i6_3	5,90E-109	315	XP_018852475.1	probable glutathione peroxidase 8	Juglans regia	AFK48933.1
TRINITY_DN858_c0_g2_i1_3	0	682	XP_018823141.1	mannose-1-phosphate guanyltransferase alpha-like	Juglans regia	XP_018823142.1
TRINITY_DN23297_c0_g1_i1_4	1,74E-52	179	KDP42514.1	hypothetical protein JCGZ_00311	Jatropha curcas	XP_012066762.1
TRINITY_DN19876_c0_g1_i1_6	1,62E-66	214	XP_018847448.1	uncharacterized protein LOC109010934	Juglans regia	XP_018825310.1
TRINITY_DN11014_c0_g1_i1_4	5,08E-83	248	XP_018849005.1	universal stress protein PHOS32-like	Juglans regia	XP_018849006.1
TRINITY_DN13986_c1_g1_i1_2	7,92E-52	177	XP_018827526.1	beta-galactosidase 10	Juglans regia	OAY36002.1
TRINITY_DN4916_c0_g2_i1_4	6,56E-61	188	XP_018816863.1	uncharacterized protein LOC108988171	Juglans regia	XP_018816864.1
TRINITY_DN13205_c0_g1_i1_2	2,58E-72	243	XP_018837736.1	protein MODIFIER OF SNC1 1-like isoform X2	Juglans regia	XP_018837729.1
TRINITY_DN2844_c0_g1_i1_3	1,43E-101	300	dbj|BAT85501.1	hypothetical protein VIGAN_04305800	Vigna angularis var. angularis	XP_014627214.1
TRINITY_DN19026_c0_g1_i1_2	5,05E-28	109	XP_009339937.1	calcium-binding protein 39-like	Pyrus x bretschneideri	XP_008390799.1
TRINITY_DN10596_c0_g1_i1_3	0	948	XP_018821947.1	uncharacterized protein LOC108991975	Juglans regia	XP_008230188.1
TRINITY_DN11089_c0_g1_i1_6	3,24E-108	323	XP_018815200.1	serine/arginine-rich-splicing factor SR34-like isoform X3	Juglans regia	XP_018815196.1
TRINITY_DN1625_c0_g1_i1_1	3,35E-43	149	XP_018806507.1	glucan endo-1,3-beta-glucosidase-like	Juglans regia	XP_018814434.1
TRINITY_DN4295_c0_g1_i2_2	2,63E-34	120	XP_018858723.1	tetraspanin-19 isoform X5	Juglans regia	XP_018858724.1
TRINITY_DN21571_c0_g1_i1_3	9,11E-42	148	ONI35915.1	hypothetical protein PRUPE_1G560300	Prunus persica	XP_020534686.1
TRINITY_DN9775_c0_g1_i1_1	5,30E-56	182	OAY41762.1	hypothetical protein MANES_09G127700	Manihot esculenta	KDP39526.1

TRINITY_DN17721_c0_g1_i1_3	4,19E-83	258	XP_018815636.1	biotin carboxyl carrier protein of acetyl-CoA carboxylase, chloroplastic isoform X1	Juglans regia	ADN52613.1
TRINITY_DN11860_c0_g1_i1_4	1,03E-118	353	XP_018839411.1	dymeclin-like isoform X2	Juglans regia	XP_018818649.1
TRINITY_DN19531_c0_g1_i1_1	9,15E-122	373	XP_018822938.1	exocyst complex component SEC8-like	Juglans regia	XP_018822939.1
TRINITY_DN194_c0_g2_i1_1	2,76E-163	467	XP_018816985.1	pentatricopeptide repeat-containing protein At1g77360, mitochondrial-like isoform X5	Juglans regia	XP_018816984.1
TRINITY_DN426_c0_g1_i1_2	1,56E-121	365	XP_018809084.1	delta-1-pyrroline-5-carboxylate synthase isoform X2	Juglans regia	XP_018809083.1
TRINITY_DN23380_c0_g1_i1_2	2,71E-27	108	XP_020987369.1	LOW QUALITY PROTEIN: uncharacterized protein LOC107464626	Arachis duranensis	XP_009360071.1
TRINITY_DN7432_c0_g1_i1_5	0	530	XP_018833108.1	cysteine desulfurase 1, chloroplastic	Juglans regia	KOM53194.1
TRINITY_DN9824_c0_g2_i1_2	6,19E-77	231	XP_018829803.1	uncharacterized protein LOC108997870	Juglans regia	XP_008218429.1
TRINITY_DN14943_c0_g1_i1_3	5,82E-41	147	XP_015941468.1	phosphoglucomutase, chloroplastic	Arachis duranensis	AES62609.1
TRINITY_DN4390_c0_g1_i2_1	0	546	XP_018849861.1	dihydrolipoyllysine-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex 1, mitochondrial-like isoform X1	Juglans regia	XP_018849862.1
TRINITY_DN3895_c0_g2_i1_2	7,87E-114	350	XP_018806735.1	mechanosensitive ion channel protein 2, chloroplastic	Juglans regia	XP_018806736.1
TRINITY_DN2101_c0_g1_i1_2	6,54E-22	92,4	XP_018809774.1	protein transport protein SEC31 homolog B-like isoform X1	Juglans regia	XP_018809776.1
TRINITY_DN22364_c0_g1_i1_6	5,18E-39	140	XP_009365627.1	exocyst complex component SEC3A-like	Pyrus x bretschneideri	ONI32790.1
TRINITY_DN3021_c0_g2_i1_6	0	629	XP_018849969.1	ketohexokinase-like isoform X1	Juglans regia	ONH93084.1
TRINITY_DN1919_c0_g1_i1_1	0	513	XP_018849245.1	protoporphyrinogen oxidase, mitochondrial isoform X1	Juglans regia	XP_018849245.1
TRINITY_DN11220_c1_g3_i1_3	3,74E-132	377	XP_018841297.1	tropinone reductase homolog At5g06060-like	Juglans regia	XP_018850680.1
TRINITY_DN8579_c0_g2_i1_1	0	665	XP_012091599.1	DNA-directed RNA polymerase II subunit RPB2 isoform X1	Jatropha curcas	XP_020541368.1
TRINITY_DN7867_c0_g1_i4_3	3,24E-110	320	XP_018809788.1	glucose-induced degradation protein 8 homolog	Juglans regia	XP_018809789.1
TRINITY_DN11046_c0_g1_i2_2	0	1017	XP_018828658.1	BTB/POZ domain-containing protein At5g03250-like	Juglans regia	XP_018844832.1
TRINITY_DN8640_c0_g1_i1_1	4,14E-103	300	XP_008374850.1	protein C2-DOMAIN ABA-RELATED 4-like	Malus domestica	XP_018857996.1
TRINITY_DN2390_c0_g2_i1_1	7,25E-78	239	XP_018822547.1	probable hydroxyacylglutathione hydrolase 2, chloroplastic isoform X2	Juglans regia	XP_018812777.1
TRINITY_DN12575_c0_g1_i1_3	1,38E-124	370	XP_020973003.1	K(+) efflux antiporter 4, partial	Arachis ipaensis	XP_016651595.1
TRINITY_DN10417_c0_g2_i1_1	0	731	XP_018826781.1	TBC1 domain family member 17-like isoform X1	Juglans regia	XP_018826782.1
TRINITY_DN17426_c0_g1_i1_6	4,67E-48	166	XP_018816046.1	uncharacterized protein LOC108987537	Juglans regia	OAY44637.1
TRINITY_DN9926_c0_g1_i2_5	2,52E-23	94	XP_018836523.1	beta-hexosaminidase 1-like	Juglans regia	KDP37399.1
TRINITY_DN2534_c0_g1_i1_4	2,64E-92	286	XP_018824493.1	uncharacterized protein LOC108993891	Juglans regia	KRG98729.1

TRINITY_DN2915_c0_g1_i1_3	2,62E-43	152	XP_018849647.1	acetyl-CoA carboxylase 1-like	Juglans regia	XP_018849648.1
TRINITY_DN11633_c0_g1_i3_5	0	930	XP_018844883.1	non-specific phospholipase C1-like	Juglans regia	XP_018846016.1
TRINITY_DN15398_c0_g1_i1_5	1,83E-81	262	XP_018828504.1	protein TIC110, chloroplastic isoform X2	Juglans regia	XP_018828503.1
TRINITY_DN5905_c0_g1_i1_3	0	573	ONI09011.1	hypothetical protein PRUPE_5G211900	Prunus persica	XP_008240052.1
TRINITY_DN9808_c0_g1_i1_1	2,11E-117	345	XP_018826112.1	BI1-like protein	Juglans regia	XP_018840552.1
TRINITY_DN10830_c0_g1_i1_1	0	516	XP_018851799.1	ACT domain-containing protein ACR12	Juglans regia	XP_018846054.1
TRINITY_DN5571_c0_g1_i2_2	6,04E-96	298	XP_018854351.1	cingulin-like	Juglans regia	XP_018806130.1
TRINITY_DN14099_c0_g1_i1_1	4,69E-105	326	XP_018828510.1	rab3 GTPase-activating protein catalytic subunit isoform X1	Juglans regia	XP_018828511.1
TRINITY_DN1513_c0_g1_i1_1	2,27E-134	388	XP_018845774.1	pentatricopeptide repeat-containing protein At4g35850, mitochondrial-like isoform X1	Juglans regia	XP_018845777.1
TRINITY_DN9703_c0_g1_i1_1	4,37E-89	268	XP_018826884.1	uncharacterized protein LOC108995726	Juglans regia	XP_018818332.1
TRINITY_DN30_c0_g1_i1_2	0	595	XP_018847661.1	CBL-interacting serine/threonine-protein kinase 23 isoform X3	Juglans regia	XP_018819681.1
TRINITY_DN4271_c0_g2_i1_6	4,38E-117	343	XP_018842294.1	uncharacterized protein LOC109007179	Juglans regia	KDP40340.1
TRINITY_DN9637_c0_g1_i2_1	0	704	XP_018809628.1	protein PELOTA 1	Juglans regia	XP_009337981.1
TRINITY_DN14624_c0_g1_i1_5	1,48E-41	149	XP_012090136.1	ABC transporter C family member 10	Jatropha curcas	KDP22187.1
TRINITY_DN7843_c0_g1_i2_1	5,58E-33	115	OAY45897.1	hypothetical protein MANES_07G101100	Manihot esculenta	ADB85087.1
TRINITY_DN14064_c0_g1_i1_1	1,87E-42	150	XP_018829333.1	uncharacterized protein LOC108997475	Juglans regia	XP_018829334.1
TRINITY_DN19958_c0_g1_i1_2	1,11E-20	84,7	XP_018807289.1	CRIB domain-containing protein RIC5-like	Juglans regia	KDP26504.1
TRINITY_DN12317_c0_g2_i1_2	5,77E-77	237	OAY38183.1	hypothetical protein MANES_11G159800	Manihot esculenta	OAY38182.1
TRINITY_DN106_c0_g1_i1_6	5,53E-148	420	XP_018827300.1	putative uridine kinase C227.14	Juglans regia	ONH93435.1
TRINITY_DN10121_c0_g1_i2_2	0	527	XP_018848619.1	protein FLX-like 1	Juglans regia	XP_018813162.1
TRINITY_DN16265_c0_g1_i1_6	2,47E-35	133	XP_018820691.1	protein S-acyltransferase 24	Juglans regia	ONH98508.1
TRINITY_DN22994_c0_g1_i1_2	2,28E-46	159	XP_018807599.1	EH domain-containing protein 1-like	Juglans regia	OAY28437.1
TRINITY_DN16148_c0_g1_i1_2	5,42E-41	145	KHN15894.1	L-gulonolactone oxidase	Glycine soja	KRH06390.1
TRINITY_DN10093_c0_g1_i1_4	2,21E-117	374	XP_018819031.1	uncharacterized protein LOC108989762 isoform X2	Juglans regia	XP_018819030.1
TRINITY_DN13095_c0_g1_i1_2	0	639	ONI08824.1	hypothetical protein PRUPE_5G203000	Prunus persica	XP_007210336.1
TRINITY_DN6032_c0_g1_i1_1	3,94E-95	295	XP_018821273.1	peroxisomal membrane protein PEX14	Juglans regia	XP_018821274.1
TRINITY_DN4104_c0_g1_i2_2	3,25E-59	191	XP_018839964.1	protein ENHANCED DISEASE RESISTANCE 2-like isoform X3	Juglans regia	XP_018839960.1
TRINITY_DN11490_c0_g1_i4_6	1,85E-58	184	ABW22414.1	S1 ribosomal protein (mitochondrion)	Glycine max	CBX33386.1
TRINITY_DN11358_c0_g1_i2_2	1,86E-149	444	XP_018838909.1	uncharacterized protein LOC109004724 isoform X2	Juglans regia	XP_018838910.1
TRINITY_DN5926_c0_g1_i1_3	4,44E-78	234	XP_018811596.1	uncharacterized protein At4g28440-like	Juglans regia	KDP21003.1
TRINITY_DN10755_c0_g1_i3_1	4,41E-54	172	XP_018846043.1	protein KRTCAP2 homolog	Juglans regia	OAY23478.1
TRINITY_DN13112_c0_g1_i1_5	1,23E-23	97,8	OAY35140.1	hypothetical protein MANES_12G075600	Manihot esculenta	OAY35139.1
TRINITY_DN1601_c0_g1_i1_6	1,51E-64	202	XP_018822833.1	uncharacterized protein LOC108992673	Juglans regia	KHN28085.1
TRINITY_DN20005_c0_g1_i1_6	9,24E-118	361	XP_018813272.1	AP-2 complex subunit alpha-1-like	Juglans regia	XP_018833174.1
TRINITY_DN9298_c0_g1_i2_6	1,51E-82	258	XP_018855556.1	probable methyltransferase PMT13	Juglans regia	XP_018855557.1
TRINITY_DN10791_c2_g1_i1_2	0	521	XP_018841148.1	12-oxophytodienoate reductase 2-like	Juglans regia	OAY23951.1
TRINITY_DN12338_c0_g1_i1_2	1,27E-51	176	ONI01534.1	hypothetical protein PRUPE_6G144700	Prunus persica	XP_008230284.1

TRINITY_DN2894_c0_g1_i1_6	2,68E-22	94,7	XP_018817532.1	ubiquitin carboxyl-terminal hydrolase 24 isoform X2	Juglans regia	XP_018817528.1
TRINITY_DN9321_c0_g1_i1_1	1,47E-125	385	XP_018859491.1	uncharacterized protein LOC109021330 isoform X4	Juglans regia	XP_018859489.1
TRINITY_DN8786_c1_g1_i1_3	4,61E-59	195	XP_018806595.1	probable glycosyltransferase At5g03795	Juglans regia	XP_009364236.1
TRINITY_DN8717_c0_g1_i1_1	0	1162	XP_018815330.1	SUMO-activating enzyme subunit 2-like isoform X1	Juglans regia	XP_018807405.1
TRINITY_DN266_c0_g2_i2_2	0	642	XP_018821455.1	poly(U)-specific endoribonuclease-B-like isoform X1	Juglans regia	XP_018821456.1
TRINITY_DN10315_c0_g1_i3_3	0	548	XP_018822721.1	secretory carrier-associated membrane protein 3-like	Juglans regia	XP_018839942.1
TRINITY_DN19933_c0_g1_i1_3	7,89E-46	162	OIV90433.1	hypothetical protein TanjilG_01911	Lupinus angustifolius	XP_019426881.1
TRINITY_DN9610_c0_g1_i5_6	2,47E-140	403	XP_018842815.1	RNA-binding protein 1-like	Juglans regia	XP_018842816.1
TRINITY_DN3076_c0_g1_i1_4	3,46E-162	468	XP_008372906.1	26S proteasome non-ATPase regulatory subunit 4 homolog isoform X1	Malus domestica	ONH92223.1
TRINITY_DN10575_c0_g1_i1_1	1,01E-77	241	XP_018809258.1	uncharacterized protein LOC108982363	Juglans regia	ONI18405.1
TRINITY_DN14305_c0_g1_i1_5	9,34E-90	265	XP_018817440.1	phosphatidylinositol transfer protein 2-like isoform X1	Juglans regia	XP_018817441.1
TRINITY_DN11352_c0_g1_i1_1	2,92E-132	400	XP_018826436.1	U1 small nuclear ribonucleoprotein 70 kDa-like	Juglans regia	XP_018826436.1
TRINITY_DN6147_c0_g1_i2_6	3,64E-54	172	ONH97119.1	hypothetical protein PRUPE_7G170900	Prunus persica	XP_007202770.1
TRINITY_DN10057_c1_g1_i2_3	6,45E-66	201	XP_008224427.1	40S ribosomal protein S15-4	Prunus mume	XP_008391094.1
TRINITY_DN13010_c0_g1_i1_1	4,52E-25	95,9	KYP69972.1	hypothetical protein KK1_009179	Cajanus cajan	XP_020212031.1
TRINITY_DN2392_c0_g1_i1_2	0	632	OAY28989.1	hypothetical protein MANES_15G109300	Manihot esculenta	KDP30591.1
TRINITY_DN9690_c0_g1_i2_3	2,46E-140	404	XP_020240158.1	syntaxin-71-like	Cajanus cajan	OAY42657.1
TRINITY_DN11443_c0_g1_i1_3	1,42E-177	500	KDP28756.1	hypothetical protein JCGZ_14527	Jatropha curcas	XP_012083577.1
TRINITY_DN14199_c0_g1_i1_6	2,65E-69	226	XP_018806735.1	mechanosensitive ion channel protein 2, chloroplastic	Juglans regia	XP_018806736.1
TRINITY_DN7984_c0_g1_i2_3	7,26E-49	171	XP_018831324.1	H/ACA ribonucleoprotein complex subunit 4	Juglans regia	XP_014518907.1
TRINITY_DN15785_c0_g1_i1_6	9,38E-51	162	XP_020206789.1	dynamin-2B-like	Cajanus cajan	GAU44658.1
TRINITY_DN21396_c0_g1_i1_3	2,28E-76	236	XP_020212887.1	beta-1,3-galactosyltransferase 7-like isoform X1	Cajanus cajan	KYP70021.1
TRINITY_DN7330_c0_g1_i1_3	0	880	XP_018827923.1	DEAD-box ATP-dependent RNA helicase 31-like isoform X1	Juglans regia	XP_018827924.1
TRINITY_DN9918_c0_g2_i5_3	0	932	YP_009318148.1	ATP synthase CF1 alpha subunit (chloroplast)	Corylus avellana	AOZ20350.1
TRINITY_DN10206_c0_g8_i1_3	0	543	XP_018828519.1	CBL-interacting serine/threonine-protein kinase 11	Juglans regia	XP_018835724.1
TRINITY_DN21905_c0_g1_i1_6	4,27E-38	138	XP_018813845.1	uncharacterized protein LOC108985854 isoform X2	Juglans regia	XP_018813843.1
TRINITY_DN20071_c0_g1_i1_6	2,13E-33	125	XP_018845025.1	phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and protein-tyrosine-phosphatase PTEN2A-like	Juglans regia	KHN36257.1

TRINITY_DN8834_c0_g1_i4_2	1,17E-75	230	XP_004494031.1	iron-sulfur assembly protein IscA-like 1, mitochondrial	Cicer arietinum	KRH67908.1
TRINITY_DN10839_c0_g1_i3_6	7,03E-95	278	XP_008237795.1	NADH dehydrogenase [ubiquinone] iron-sulfur protein 4, mitochondrial	Prunus mume	ONI02745.1
TRINITY_DN2321_c0_g1_i1_6	4,96E-152	429	XP_018815159.1	thiamine pyrophosphokinase 1 isoform X1	Juglans regia	ONH93890.1
TRINITY_DN12272_c0_g1_i1_2	5,69E-28	110	XP_012087612.1	arginyl-tRNA--protein transferase 2 isoform X2	Jatropha curcas	KDP44783.1
TRINITY_DN8223_c1_g1_i1_3	1,51E-13	68,9	XP_018833203.1	uncharacterized protein LOC109000690 isoform X1	Juglans regia	XP_018843246.1
TRINITY_DN11343_c0_g1_i7_1	0	872	dbj|BAO50884.1	ATP synthase F1 subunit 1 (mitochondrion)	Hevea brasiliensis	BAO50925.1
TRINITY_DN20424_c0_g1_i1_1	6,05E-45	159	XP_018840549.1	protein FAR1-RELATED SEQUENCE 7-like	Juglans regia	XP_008353242.1
TRINITY_DN3551_c0_g1_i1_3	1,89E-113	346	XP_018851703.1	polygalacturonate 4-alpha-galacturonosyltransferase-like isoform X2	Juglans regia	XP_018851702.1
TRINITY_DN9616_c0_g1_i1_1	2,00E-99	293	ONI26263.1	hypothetical protein PRUPE_1G013500	Prunus persica	KDP36554.1
TRINITY_DN13664_c0_g1_i1_1	3,71E-42	150	XP_018849684.1	protein TPR2-like	Juglans regia	XP_018828941.1
TRINITY_DN9032_c0_g1_i5_4	1,61E-134	384	emb|CAX86785.1	unnamed protein product	Glycine max	CAY07604.1
TRINITY_DN10274_c0_g1_i3_2	6,40E-74	224	XP_004500009.1	peptidyl-prolyl cis-trans isomerase NIMA-interacting 4	Cicer arietinum	ACJ86035.1
TRINITY_DN10289_c0_g1_i1_3	3,23E-168	468	XP_018836403.1	dolichol-phosphate mannosyltransferase subunit 1	Juglans regia	KDP36797.1
TRINITY_DN1145_c0_g2_i1_6	1,38E-85	269	XP_018834399.1	uncharacterized protein LOC109001525	Juglans regia	XP_018816504.1
TRINITY_DN11535_c0_g1_i3_2	1,23E-82	244	XP_018815860.1	40S ribosomal protein S20-2	Juglans regia	XP_018815861.1
TRINITY_DN14223_c0_g1_i1_5	1,26E-48	157	XP_018810638.1	glycine-rich RNA-binding protein RZ1C-like, partial	Juglans regia	XP_018811403.1
TRINITY_DN18123_c0_g2_i1_2	1,68E-163	479	ONH97567.1	hypothetical protein PRUPE_7G197100	Prunus persica	XP_007204263.1
TRINITY_DN18755_c0_g1_i1_2	9,21E-21	87	OAY52867.1	hypothetical protein MANES_04G117400	Manihot esculenta	OAY52866.1
TRINITY_DN20629_c0_g1_i1_1	6,92E-95	282	XP_018806320.1	UDP-D-xylose:L-fucose alpha-1,3-D-xylosyltransferase MGP4-like, partial	Juglans regia	XP_018836102.1
TRINITY_DN20794_c0_g1_i1_5	9,85E-20	86,3	XP_008219968.1	U-box domain-containing protein 52	Prunus mume	ONI33983.1
TRINITY_DN21254_c0_g1_i1_2	6,78E-91	267	XP_018857098.1	calmodulin-like protein 3	Juglans regia	XP_020538862.1
TRINITY_DN22136_c0_g1_i1_1	4,18E-18	75,9	dbj|GAU23459.1	hypothetical protein TSUD_331570	Trifolium subterraneum	KHN35208.1
TRINITY_DN22623_c0_g1_i1_1	4,99E-30	110	OAY57022.1	hypothetical protein MANES_02G064300	Manihot esculenta	GAU26654.1
TRINITY_DN2924_c0_g1_i1_3	2,99E-146	414	ONI31113.1	hypothetical protein PRUPE_1G293300	Prunus persica	XP_020411372.1
TRINITY_DN493_c0_g1_i1_1	0	551	XP_018827207.1	flowering locus K homology domain-like	Juglans regia	XP_018827208.1
TRINITY_DN6077_c0_g2_i1_2	0	514	XP_018836291.1	methylthioribose-1-phosphate isomerase	Juglans regia	KDP33930.1
TRINITY_DN6267_c0_g1_i1_2	6,82E-25	97,4	XP_018850061.1	protein SRC2 homolog	Juglans regia	XP_018845907.1
TRINITY_DN6751_c0_g1_i1_3	9,02E-06	46,2	XP_018819823.1	MFP1 attachment factor 1-like	Juglans regia	XP_018824955.1
TRINITY_DN9010_c0_g1_i2_3	2,01E-129	373	XP_018816307.1	uncharacterized protein LOC108987761	Juglans regia	XP_018816308.1

Supplementary Table S4: Pfam annotation of identified Betula pollen proteins

Protein IDs	Peptide counts (all)	Sequence coverage [%]	Mol. weight [kDa]	MQ Score	Pfam accession	Pfam family name	bitscore	e-value [Pfam]	clan
TRINITY_DN10036_c0_g1::TRINITY_DN10036_c0_g1_i2::g.4202::m.4202	1	7,8	18,092	2,7266	PF01026.20	TatD_DNase	90,6	9,60E-26	CL0034
TRINITY_DN12431_c0_g1::TRINITY_DN12431_c0_g1_i5::g.12785::m.12785	3	19,6	17,333	5,8852	PF03939.12	Ribosomal_L23eN	70,3	1,10E-19	No_clan
TRINITY_DN1011_c0_g1::TRINITY_DN1011_c0_g1_i1::g.255::m.255	1	4,3	27,47	2,1061	PF07748.12	Glyco_hydro_38C	104,3	7,40E-30	CL0103
TRINITY_DN10140_c0_g1::TRINITY_DN10140_c0_g1_i2::g.4317::m.4317	8	38,7	38,161	158,1	PF00112.22	Peptidase_C1	282,3	3,20E-84	CL0125
TRINITY_DN10146_c0_g1::TRINITY_DN10146_c0_g1_i1::g.4308::m.4308	1	11,4	13,716	5,7992	PF02953.14	zf-Tim10_DDP	88,5	1,60E-25	No_clan
TRINITY_DN10166_c0_g1::TRINITY_DN10166_c0_g1_i3::g.4379::m.4379	6	29,6	27,02	23,624	PF00166.20	Cpn10	97,2	4,20E-28	CL0296
TRINITY_DN10182_c0_g1::TRINITY_DN10182_c0_g1_i1::g.4394::m.4394	2	12,9	19,243	2,0797	PF00168.29	C2	76	2,20E-21	CL0154
TRINITY_DN10225_c0_g1::TRINITY_DN10225_c0_g1_i1::g.4474::m.4474	5	16,5	29,779	7,7568	PF00578.20	AhpC-TSA	134,3	2,00E-39	CL0172
TRINITY_DN10290_c0_g3::TRINITY_DN10290_c0_g3_i1::g.4573::m.4573	2	17,3	33,509	4,7599	PF00290.19	Trp_syntA	327,9	2,70E-98	CL0036
TRINITY_DN10291_c0_g2::TRINITY_DN10291_c0_g2_i1::g.4575::m.4575	1	6,6	17,351	2,1289	PF02777.17	Sod_Fe_C	106,4	6,60E-31	No_clan
TRINITY_DN10293_c0_g1::TRINITY_DN10293_c0_g1_i1::g.4492::m.4492	1	5,6	29,189	2,2317	PF01765.18	RRF	178,5	8,60E-53	No_clan
TRINITY_DN10295_c0_g1::TRINITY_DN10295_c0_g1_i2::g.4577::m.4577	3	16,9	21,393	5,7478	PF04752.11	ChaC	182,2	8,70E-54	CL0278
TRINITY_DN10320_c0_g1::TRINITY_DN10320_c0_g1_i1::g.4626::m.4626	2	26,2	13,422	4,4358	PF05564.11	Auxin_repressed	195,5	2,90E-58	No_clan
TRINITY_DN10326_c0_g1::TRINITY_DN10326_c0_g1_i1::g.4634::m.4634	4	14,9	37,74	-2	PF00224.20	PK	319,1	2,70E-95	CL0151
TRINITY_DN10328_c0_g1::TRINITY_DN10328_c0_g1_i1::g.4642::m.4642	1	9,6	16,672	8,2999	PF02221.14	E1_DerP2_DerF2	72,4	4,40E-20	CL0532
TRINITY_DN10333_c0_g1::TRINITY_DN10333_c0_g1_i1::g.4649::m.4649	3	8,8	49,341	4,7748	PF00009.26	GTP_EFTU	190,9	1,60E-56	CL0023
TRINITY_DN10355_c0_g1::TRINITY_DN10355_c0_g1_i1::g.4689::m.4689	3	35,3	11,426	4,662					
TRINITY_DN10355_c0_g1::TRINITY_DN10355_c0_g1_i2::g.4690::m.4690	3	33	12,112	9,3135					
TRINITY_DN10373_c0_g1::TRINITY_DN10373_c0_g1_i1::g.4691::m.4691	4	21,9	21,959	29,956					
TRINITY_DN10374_c0_g1::TRINITY_DN10374_c0_g1_i1::g.4693::m.4693	2	4,4	57,312	3,4647	PF10508.8	Proteasom_PSMB	43	2,00E-11	CL0020

TRINITY_DN10431_c0_g1::TRINITY_DN10431_c0_g1_i2::g.4811::m.4811	4	17,3	30,821	32,796	PF06552.11	TOM20_plant	332,2	7,40E-100	CL0020
TRINITY_DN10432_c0_g1::TRINITY_DN10432_c0_g1_i2::g.4807::m.4807	3	20,9	15,546	3,6181	PF01929.16	Ribosomal_L14e	91,9	2,50E-26	CL0107
TRINITY_DN10468_c0_g2::TRINITY_DN10468_c0_g2_i1::g.4854::m.4854	2	4	56,705	2,7044	PF01487.14	DHquinase_I	175	2,60E-51	CL0036
TRINITY_DN10469_c0_g1::TRINITY_DN10469_c0_g1_i1::g.4851::m.4851	2	21,6	17,001	16,863	PF05811.12	DUF842	127	3,50E-37	No_clan
TRINITY_DN10567_c0_g1::TRINITY_DN10567_c0_g1_i2::g.5026::m.5026	2	29,9	11,846	3,8758					
TRINITY_DN10578_c0_g1::TRINITY_DN10578_c0_g1_i5::g.5050::m.5050	7	17,6	59,491	11,731	PF00270.28	DEAD	182,6	5,20E-54	CL0023
TRINITY_DN10610_c0_g1::TRINITY_DN10610_c0_g1_i2::g.5110::m.5110	1	5,3	26,916	2,2859	PF02894.16	GFO_IDH_MocA_C	57,1	1,50E-15	CL0218
TRINITY_DN10617_c0_g1::TRINITY_DN10617_c0_g1_i2::g.5120::m.5120	1	7,6	20,716	2,2564	PF05916.10	Sld5	36,7	4,30E-09	No_clan
TRINITY_DN10621_c0_g1::TRINITY_DN10621_c0_g1_i2::g.5142::m.5142	1	5,5	22,52	2,1432	PF06127.10	DUF962	105,5	1,00E-30	No_clan
TRINITY_DN10627_c0_g1::TRINITY_DN10627_c0_g1_i1::g.5151::m.5151	7	19,3	65,231	14,927	PF02776.17	TPP_enzyme_N	120,4	5,50E-35	CL0254
TRINITY_DN10654_c0_g1::TRINITY_DN10654_c0_g1_i1::g.5213::m.5213	2	9,3	26,202	3,3883	PF02330.15	MAM33	70,9	1,30E-19	No_clan
TRINITY_DN10660_c0_g1::TRINITY_DN10660_c0_g1_i1::g.5237::m.5237	4	19	35,245	48,388	PF05773.21	RWD	81,7	4,20E-23	CL0208
TRINITY_DN10668_c0_g1::TRINITY_DN10668_c0_g1_i3::g.5273::m.5273	2	4,4	69,622	3,5303	PF00400.31	WD40	15,3	0,025	CL0186
TRINITY_DN10700_c0_g1::TRINITY_DN10700_c0_g1_i1::g.5317::m.5317	4	17,6	27,789	4,6665	PF00889.18	EF_TS	173,1	5,40E-51	No_clan
TRINITY_DN10710_c0_g1::TRINITY_DN10710_c0_g1_i1::g.5355::m.5355	3	13,6	26,639	5,8536					
TRINITY_DN10714_c0_g1::TRINITY_DN10714_c0_g1_i7::g.5396::m.5396	3	8,1	63,023	4,8388	PF13537.5	GATase_7	83,1	1,30E-23	CL0052
TRINITY_DN10714_c0_g1::TRINITY_DN10714_c0_g1_i4::g.5392::m.5392	2	21,2	12,651	3,9349					
TRINITY_DN10737_c0_g1::TRINITY_DN10737_c0_g1_i1::g.5423::m.5423	3	19,8	18,373	6,6117	PF00583.24	Acetyltransf_1	56,4	3,00E-15	CL0257
TRINITY_DN10747_c0_g1::TRINITY_DN10747_c0_g1_i1::g.5399::m.5399	1	4,8	32,546	1,8418	PF01612.19	DNA_pol_A_exo1	63	2,60E-17	CL0219
TRINITY_DN10767_c0_g1::TRINITY_DN10767_c0_g1_i1::g.5469::m.5469	2	10,6	38,341	2,4357	PF01212.20	Beta_elim_lyase	316,7	1,30E-94	CL0061
TRINITY_DN10774_c0_g1::TRINITY_DN10774_c0_g1_i7::g.5503::m.5503	1	6,2	21,903	2,2779	PF13012.5	MitMem_reg	91,6	3,80E-26	No_clan

TRINITY_DN10779_c0_g1::TRINITY_DN10779_c0_g1_i3::g.5511::m.5511	9	38	33,521	152,42	PF00293.27	NUDIX	75,9	2,70E-21	CL0261
TRINITY_DN10818_c0_g1::TRINITY_DN10818_c0_g1_i2::g.5587::m.5587	3	30,1	11,952	45,304	PF14368.5	LTP_2	50,6	1,50E-13	CL0482
TRINITY_DN10819_c0_g1::TRINITY_DN10819_c0_g1_i3::g.5615::m.5615	1	15,7	11,636	2,3806					
TRINITY_DN10821_c0_g1::TRINITY_DN10821_c0_g1_i1::g.5589::m.5589	2	14,8	22,468	8,7493	PF06552.11	TOM20_plant	323,5	3,40E-97	CL0020
TRINITY_DN10830_c0_g1::TRINITY_DN10830_c0_g1_i1::g.5629::m.5629	5	28,5	26,606	16,124	PF13417.5	GST_N_3	62,5	3,40E-17	CL0172
TRINITY_DN10845_c0_g1::TRINITY_DN10845_c0_g1_i1::g.5649::m.5649	1	9	23,338	2,2759					
TRINITY_DN10846_c0_g1::TRINITY_DN10846_c0_g1_i1::g.5657::m.5657	1	5,6	20,569	1,9409					
TRINITY_DN10853_c0_g1::TRINITY_DN10853_c0_g1_i1::g.5658::m.5658	2	12,6	18,966	2,8655	PF04398.11	DUF538	116	1,10E-33	No_clan
TRINITY_DN10855_c0_g2::TRINITY_DN10855_c0_g2_i3::g.5689::m.5689	2	12,6	19,959	2,8302	PF09360.9	zf-CDGSH	38	1,30E-09	No_clan
TRINITY_DN10864_c0_g1::TRINITY_DN10864_c0_g1_i1::g.5678::m.5678	1	4	44,693	2,3659	PF17177.3	PPR_long	29	5,80E-07	CL0020
TRINITY_DN10875_c0_g1::TRINITY_DN10875_c0_g1_i3::g.5717::m.5717	1	3	45,581	2,2987	PF00850.18	Hist_deacetyl	271,1	1,30E-80	CL0302
TRINITY_DN10893_c0_g1::TRINITY_DN10893_c0_g1_i1::g.5751::m.5751	2	11	37,324	59,821	PF00332.17	Glyco_hydro_17	377,7	4,30E-113	CL0058
TRINITY_DN10896_c0_g1::TRINITY_DN10896_c0_g1_i3::g.5759::m.5759	1	10,9	12,896	2,0405	PF00484.18	Pro_CA	37,6	2,30E-09	No_clan
TRINITY_DN11870_c0_g1::TRINITY_DN11870_c0_g1_i2::g.9275::m.9275	2	12,5	13,765	12,492	PF01199.17	Ribosomal_L34e	131,2	1,20E-38	No_clan
TRINITY_DN10911_c0_g2::TRINITY_DN10911_c0_g2_i2::g.5805::m.5805	7	31,2	29,421	22,505	PF00227.25	Proteasome	164,3	2,10E-48	CL0052
TRINITY_DN10935_c0_g1::TRINITY_DN10935_c0_g1_i5::g.5847::m.5847	1	14,1	11,286	2,61	PF00240.22	ubiquitin	48	7,00E-13	CL0072
TRINITY_DN10955_c0_g1::TRINITY_DN10955_c0_g1_i1::g.5913::m.5913	1	11,7	12,041	1,8653	PF05486.11	SRP9-21	46,2	4,10E-12	CL0623
TRINITY_DN10960_c0_g1::TRINITY_DN10960_c0_g1_i2::g.5906::m.5906	2	5,9	39,075	1,888	PF00012.19	HSP70	401,1	6,20E-120	CL0108
TRINITY_DN10969_c0_g1::TRINITY_DN10969_c0_g1_i1::g.5933::m.5933	6	19,7	49,112	47,008	PF07732.14	Cu-oxidase_3	41,6	9,90E-11	CL0026
TRINITY_DN10989_c0_g1::TRINITY_DN10989_c0_g1_i3::g.6012::m.6012	5	25,2	29,165	12,846					
TRINITY_DN10990_c0_g1::TRINITY_DN10990_c0_g1_i1::g.6030::m.6030	2	7,6	47,62	4,3438	PF03151.15	TPT	352,2	2,00E-105	CL0184

TRINITY_DN11003_c0_g3::TRINITY_DN11003_c0_g3_i1::g.6096::m.6096	3	25,5	16,066	4,6887	PF00166.20	Cpn10	87,7	3,60E-25	CL0296
TRINITY_DN11011_c0_g1::TRINITY_DN11011_c0_g1_i3::g.6100::m.6100	2	2,2	109,46	6,1775	PF03810.18	IBN_N	48,4	5,90E-13	CL0020
TRINITY_DN11014_c0_g1::TRINITY_DN11014_c0_g1_i2::g.6114::m.6114	3	27,8	21,697	5,7773					
TRINITY_DN11023_c0_g2::TRINITY_DN11023_c0_g2_i1::g.6151::m.6151	1	2,1	76,032	1,9089					
TRINITY_DN11029_c0_g1::TRINITY_DN11029_c0_g1_i1::g.6154::m.6154	4	9,3	71,297	8,3996	PF00501.27	AMP-binding	285,2	6,40E-85	CL0378
TRINITY_DN11049_c0_g1::TRINITY_DN11049_c0_g1_i1::g.6211::m.6211	3	27,5	15,905	5,7668	PF01161.19	PBP	82,5	2,90E-23	No_clan
TRINITY_DN11053_c0_g1::TRINITY_DN11053_c0_g1_i3::g.6092::m.6092	3	23,6	16,83	14,07	PF01247.17	Ribosomal_L35Ae	150,8	8,40E-45	CL0575
TRINITY_DN11064_c0_g2::TRINITY_DN11064_c0_g2_i1::g.6238::m.6238	1	5,3	32,446	2,7706	PF01680.16	SOR_SNZ	285,6	2,10E-85	CL0036
TRINITY_DN11068_c0_g1::TRINITY_DN11068_c0_g1_i1::g.6241::m.6241	2	22,1	12,109	5,11	PF00428.18	Ribosomal_60s	51,4	1,20E-13	No_clan
TRINITY_DN11073_c0_g1::TRINITY_DN11073_c0_g1_i1::g.6247::m.6247	4	19,1	22,762	22,589	PF00177.20	Ribosomal_S7	126,8	4,70E-37	No_clan
TRINITY_DN11076_c0_g1::TRINITY_DN11076_c0_g1_i2::g.6263::m.6263	1	1,9	71,607	1,9343	PF13812.5	PPR_3	17,9	0,0022	CL0020
TRINITY_DN11079_c0_g1::TRINITY_DN11079_c0_g1_i1::g.6259::m.6259	3	9,8	35,619	3,7796	PF01344.24	Kelch_1	25,8	5,50E-06	CL0186
TRINITY_DN11090_c0_g1::TRINITY_DN11090_c0_g1_i1::g.6289::m.6289	3	20,2	24,293	7,1393	PF01280.19	Ribosomal_L19e	222	2,70E-66	No_clan
TRINITY_DN11092_c0_g1::TRINITY_DN11092_c0_g1_i5::g.6307::m.6307	2	12,8	20,106	3,1979	PF03009.16	GDPD	44,7	1,30E-11	CL0384
TRINITY_DN11097_c0_g1::TRINITY_DN11097_c0_g1_i1::g.6303::m.6303	9	30,7	34,933	34,099	PF13668.5	Ferritin_2	118,8	1,60E-34	CL0044
TRINITY_DN11104_c0_g1::TRINITY_DN11104_c0_g1_i1::g.6331::m.6331	1	2,8	65,455	2,207	PF12899.6	Glyco_hydro_100	721,6	2,60E-217	CL0059
TRINITY_DN11123_c0_g1::TRINITY_DN11123_c0_g1_i4::g.6381::m.6381	13	44,8	42,446	52,391	PF01588.19	tRNA_bind	89,2	1,30E-25	CL0021
TRINITY_DN11125_c0_g1::TRINITY_DN11125_c0_g1_i2::g.6392::m.6392	1	1,7	95,873	2,145					
TRINITY_DN11142_c1_g1::TRINITY_DN11142_c1_g1_i2::g.6468::m.6468	3	16,4	22,377	4,6298	PF10075.8	CSN8_PSD8_EIF3K	66,9	1,70E-18	CL0123
TRINITY_DN11160_c0_g1::TRINITY_DN11160_c0_g1_i1::g.6484::m.6484	4	26,4	30,058	65,956	PF00722.20	Glyco_hydro_16	177,7	1,30E-52	CL0004
TRINITY_DN11182_c0_g1::TRINITY_DN11182_c0_g1_i3::g.6546::m.6546	4	23,5	29,045	22,229	PF00459.24	Inositol_P	103,7	1,10E-29	CL0171

TRINITY_DN11191_c0_g1::TRINITY_DN11191_c0_g1_i2::g.6575::m.6575	4	30,1	15,925	110,63	PF13499.5	EF-hand_7	36,8	3,90E-09	CL0220
TRINITY_DN11195_c0_g1::TRINITY_DN11195_c0_g1_i1::g.6571::m.6571	2	2,5	125,72	3,8204	PF05664.10	DUF810	810,4	1,40E-243	No_clan
TRINITY_DN11202_c0_g1::TRINITY_DN11202_c0_g1_i1::g.6604::m.6604	2	6,3	35,398	3,0112	PF00191.19	Annexin	55	6,00E-15	No_clan
TRINITY_DN11209_c0_g1::TRINITY_DN11209_c0_g1_i1::g.6616::m.6616	3	12	29,936	4,4748	PF00725.21	3HCDH	72,8	2,50E-20	CL0106
TRINITY_DN11213_c0_g1::TRINITY_DN11213_c0_g1_i2::g.6642::m.6642	5	21,9	26,221	16,946	PF03868.14	Ribosomal_L6e_N	61,8	4,80E-17	No_clan
TRINITY_DN11216_c0_g1::TRINITY_DN11216_c0_g1_i3::g.6674::m.6674	2	5,2	72,042	6,6668	PF00232.17	Glyco_hydro_1	113,5	7,80E-33	CL0058
TRINITY_DN11228_c0_g1::TRINITY_DN11228_c0_g1_i4::g.6693::m.6693	1	10,4	13,298	87,187	PF01984.19	dsDNA_bind	82,3	2,70E-23	No_clan
TRINITY_DN11231_c0_g1::TRINITY_DN11231_c0_g1_i2::g.6700::m.6700	10	20,7	65,38	38,096	PF00920.20	ILVD_EDD	718	5,80E-216	No_clan
TRINITY_DN11247_c0_g1::TRINITY_DN11247_c0_g1_i5::g.6785::m.6785	6	22,7	27,587	323,31	PF05368.12	NmrA	208,4	1,00E-61	CL0063
TRINITY_DN11253_c0_g1::TRINITY_DN11253_c0_g1_i2::g.6760::m.6760	3	17,9	20,476	24,133	PF01491.15	Frataxin_Cyay	121,3	1,70E-35	No_clan
TRINITY_DN11269_c0_g1::TRINITY_DN11269_c0_g1_i4::g.6758::m.6758	1	11,9	11,865	3,1917	PF05676.12	NDUF_B7	101,6	1,30E-29	CL0351
TRINITY_DN11271_c0_g1::TRINITY_DN11271_c0_g1_i1::g.6832::m.6832	2	15,7	21,563	5,6995	PF12796.6	Ank_2	48,8	7,50E-13	CL0465
TRINITY_DN11273_c0_g1::TRINITY_DN11273_c0_g1_i1::g.6839::m.6839	1	4,8	24,727	2,399	PF01728.18	FtsJ	150,4	5,00E-44	CL0063
TRINITY_DN11277_c0_g1::TRINITY_DN11277_c0_g1_i2::g.6842::m.6842	1	10,1	16,72	3,1959					
TRINITY_DN11278_c0_g2::TRINITY_DN11278_c0_g2_i1::g.6843::m.6843	2	7,4	23,431	97,767	PF00550.24	PP-binding	44,5	1,40E-11	CL0314
TRINITY_DN11289_c0_g1::TRINITY_DN11289_c0_g1_i1::g.6862::m.6862	1	4	33,397	2,9618	PF00795.21	CN_hydrolase	179	1,00E-52	No_clan
TRINITY_DN11290_c1_g1::TRINITY_DN11290_c1_g1_i4::g.6884::m.6884	1	11,5	14,52	5,8688	PF01918.20	Alba	47,8	8,50E-13	CL0441
TRINITY_DN11301_c0_g1::TRINITY_DN11301_c0_g1_i2::g.6892::m.6892	2	12	23,119	2,8915	PF08154.11	NLE	41,8	1,10E-10	CL0072
TRINITY_DN11319_c0_g2::TRINITY_DN11319_c0_g2_i2::g.7052::m.7052	11	76,9	16,678	265,03	PF13410.5	GST_C_2	38,1	1,10E-09	CL0497
TRINITY_DN11323_c0_g1::TRINITY_DN11323_c0_g1_i5::g.7006::m.7006	2	13,6	24,69	5,3667	PF03357.20	Snf7	147	3,70E-43	CL0235
TRINITY_DN11329_c0_g1::TRINITY_DN11329_c0_g1_i1::g.6996::m.6996	1	4,7	34,386	-2	PF12776.6	Myb_DNA-bind_3	86,9	1,30E-24	CL0123

TRINITY_DN11331_c0_g1::TRINITY_DN11331_c0_g1_i1::g.7013::m.7013	2	9,7	32,667	4,0201					
TRINITY_DN11338_c0_g1::TRINITY_DN11338_c0_g1_i3::g.7037::m.7037	6	14,5	46,784	11,198	PF00988.21	CPSase_sm_chain	159,9	2,30E-47	CL0364
TRINITY_DN11345_c0_g1::TRINITY_DN11345_c0_g1_i1::g.7064::m.7064	5	23,4	32,604	30,786	PF01875.16	Memo	280,5	1,10E-83	CL0283
TRINITY_DN11347_c0_g1::TRINITY_DN11347_c0_g1_i2::g.7021::m.7021	1	11,6	21,289	14,587					
TRINITY_DN11351_c0_g4::TRINITY_DN11351_c0_g4_i3::g.7095::m.7095	2	10,1	25,526	6,2503	PF03517.12	Voldacs	88,4	4,00E-25	CL0266
TRINITY_DN11353_c0_g1::TRINITY_DN11353_c0_g1_i1::g.7089::m.7089	4	20,9	32,503	6,9778	PF14580.5	LRR_9	261,3	2,80E-78	CL0022
TRINITY_DN11356_c0_g1::TRINITY_DN11356_c0_g1_i1::g.7113::m.7113	3	18,8	17,596	29,514	PF03760.14	LEA_1	67,5	1,10E-18	No_clan
TRINITY_DN11357_c0_g2::TRINITY_DN11357_c0_g2_i1::g.7096::m.7096	4	58	14,013	46,198	PF00235.18	Profilin	148,4	1,10E-43	CL0431
TRINITY_DN11371_c0_g2::TRINITY_DN11371_c0_g2_i2::g.7148::m.7148	4	14,3	37,804	7,2376	PF00400.31	WD40	22,9	0,0001	CL0186
TRINITY_DN11377_c0_g1::TRINITY_DN11377_c0_g1_i3::g.7158::m.7158	1	6,7	18,534	2,4426	PF01327.20	Pep_deformylase	148,5	1,10E-43	No_clan
TRINITY_DN11382_c0_g1::TRINITY_DN11382_c0_g1_i1::g.7166::m.7166	3	10,4	44,237	4,9874	PF02779.23	Transket_pyr	158,2	1,50E-46	CL0254
TRINITY_DN11389_c0_g1::TRINITY_DN11389_c0_g1_i1::g.7193::m.7193	4	19,3	38,382	8,358	PF00400.31	WD40	20,5	0,00057	CL0186
TRINITY_DN11391_c0_g1::TRINITY_DN11391_c0_g1_i3::g.7245::m.7245	1	6,6	39,25	3,3661	PF10609.8	ParA	275,5	3,30E-82	CL0023
TRINITY_DN11399_c0_g1::TRINITY_DN11399_c0_g1_i3::g.6893::m.6893	9	45,6	29,827	68,483	PF01015.17	Ribosomal_S3Ae	325,2	1,40E-97	No_clan
TRINITY_DN11403_c0_g1::TRINITY_DN11403_c0_g1_i1::g.7256::m.7256	2	5,8	43,673	3,1091	PF01535.19	PPR	24,8	1,50E-05	CL0020
TRINITY_DN11410_c0_g1::TRINITY_DN11410_c0_g1_i1::g.7283::m.7283	2	7,6	34,592	3,9161	PF00400.31	WD40	16,5	0,011	CL0186
TRINITY_DN11411_c0_g1::TRINITY_DN11411_c0_g1_i2::g.7300::m.7300	5	19,6	27,783	51,821	PF00827.16	Ribosomal_L15e	312,9	6,80E-94	CL0652
TRINITY_DN11412_c0_g1::TRINITY_DN11412_c0_g1_i1::g.7292::m.7292	3	12,1	38,832	6,3583	PF03446.14	NAD_binding_2	132,2	1,60E-38	CL0063
TRINITY_DN11423_c0_g1::TRINITY_DN11423_c0_g1_i1::g.7308::m.7308	3	16,1	23,727	2,4768	PF00687.20	Ribosomal_L1	133,8	6,10E-39	No_clan
TRINITY_DN12374_c0_g1::TRINITY_DN12374_c0_g1_i5::g.12261::m.12261	4	26,3	19,712	42,289	PF00281.18	Ribosomal_L5	65,6	3,30E-18	CL0652
TRINITY_DN11445_c0_g1::TRINITY_DN11445_c0_g1_i3::g.7277::m.7277	1	6,5	20,775	2,3666	PF00153.26	Mito_carr	52,9	2,50E-14	No_clan
TRINITY_DN11447_c0_g1::TRINITY_DN11447_c0_g1_i1::g.7417::m.7417	1	3,4	40,836	1,8827	PF01633.19	Choline_kinase	213,2	3,00E-63	CL0016

TRINITY_DN11448_c0_g1::TRINITY_DN11448_c0_g1_i1::g.7372::m.7372	2	15,9	17,968	2,7591	PF13943.5	WPP	128,4	1,00E-37	No_clan
TRINITY_DN11457_c0_g1::TRINITY_DN11457_c0_g1_i1::g.7427::m.7427	1	4,9	36,037	4,8088	PF01798.17	Nop	220,7	1,60E-65	No_clan
TRINITY_DN11464_c0_g1::TRINITY_DN11464_c0_g1_i3::g.7465::m.7465	8	11,9	97,803	14,991	PF03097.17	BRO1	359,1	2,30E-107	No_clan
TRINITY_DN11465_c0_g1::TRINITY_DN11465_c0_g1_i2::g.7454::m.7454	19	48,7	55,061	156,49	PF07992.13	Pyr_redox_2	187	4,10E-55	CL0063
TRINITY_DN11467_c0_g1::TRINITY_DN11467_c0_g1_i3::g.7480::m.7480	7	16,8	65,512	12,649					
TRINITY_DN11479_c0_g1::TRINITY_DN11479_c0_g1_i6::g.7503::m.7503	2	15,9	19,709	3,5889	PF09835.8	DUF2062	58	8,60E-16	No_clan
TRINITY_DN11480_c0_g1::TRINITY_DN11480_c0_g1_i7::g.7531::m.7531	2	13,4	25,312	3,1374					
TRINITY_DN11484_c0_g1::TRINITY_DN11484_c0_g1_i2::g.7552::m.7552	3	27,8	12,307	3,896	PF01776.16	Ribosomal_L22e	81,5	4,90E-23	No_clan
TRINITY_DN11500_c0_g1::TRINITY_DN11500_c0_g1_i2::g.7570::m.7570	1	4,6	32,15	-2	PF01373.16	Glyco_hydro_14	239,8	4,40E-71	CL0058
TRINITY_DN11501_c0_g1::TRINITY_DN11501_c0_g1_i5::g.7580::m.7580	4	33,1	16,066	20,282	PF13669.5	Glyoxalase_4	35,4	9,70E-09	CL0104
TRINITY_DN11519_c0_g1::TRINITY_DN11519_c0_g1_i2::g.7693::m.7693	3	6,4	69,811	6,2331	PF12037.7	DUF3523	336,9	7,40E-101	No_clan
TRINITY_DN11520_c0_g2::TRINITY_DN11520_c0_g2_i2::g.7719::m.7719	3	21,7	25,598	4,3178	PF02374.14	ArsA_ATPase	155,2	2,20E-45	CL0023
TRINITY_DN11523_c0_g1::TRINITY_DN11523_c0_g1_i1::g.7740::m.7740	6	23,4	29,949	15,912	PF08071.11	RS4NT	69,5	1,80E-19	No_clan
TRINITY_DN11523_c0_g3::TRINITY_DN11523_c0_g3_i2::g.7748::m.7748	5	19,3	29,918	3,8675	PF08071.11	RS4NT	69,5	1,80E-19	No_clan
TRINITY_DN11534_c0_g1::TRINITY_DN11534_c0_g1_i5::g.7773::m.7773	2	10,8	29,975	2,5817	PF00106.24	adh_short	167,8	1,80E-49	CL0063
TRINITY_DN11539_c0_g1::TRINITY_DN11539_c0_g1_i5::g.7794::m.7794	6	26,6	39,497	17,533	PF09598.9	Stm1_N	76,6	1,90E-21	No_clan
TRINITY_DN11548_c0_g1::TRINITY_DN11548_c0_g1_i1::g.7714::m.7714	5	17,5	68,635	17,126					
TRINITY_DN11552_c0_g1::TRINITY_DN11552_c0_g1_i1::g.7817::m.7817	3	6,3	75,327	4,7657	PF06964.11	Alpha-L-AF_C	124,7	3,70E-36	CL0369
TRINITY_DN11558_c0_g1::TRINITY_DN11558_c0_g1_i1::g.7858::m.7858	6	33,6	23,402	323,31	PF00197.17	Kunitz_legume	207,3	1,50E-61	CL0066
TRINITY_DN11560_c0_g1::TRINITY_DN11560_c0_g1_i1::g.7865::m.7865	4	13,9	39,344	7,5284	PF08240.11	ADH_N	109,7	5,80E-32	CL0296
TRINITY_DN11562_c0_g1::TRINITY_DN11562_c0_g1_i2::g.7869::m.7869	2	13,9	19,018	22,379	PF00085.19	Thioredoxin	102,4	1,10E-29	CL0172

TRINITY_DN11568_c0_g1::TRINITY_DN11568_c0_g1_i1::g.7589::m.7589	2	18,2	21,769	7,4696	PF02466.18	Tim17	62,2	4,40E-17	No_clan
TRINITY_DN11577_c0_g1::TRINITY_DN11577_c0_g1_i3::g.7931::m.7931	2	19,8	13,526	2,4893	PF00338.21	Ribosomal_S10	100,7	3,80E-29	No_clan
TRINITY_DN11580_c0_g1::TRINITY_DN11580_c0_g1_i1::g.7933::m.7933	8	24,4	40,366	82,74	PF03690.12	UPF0160	451,3	2,10E-135	No_clan
TRINITY_DN11631_c0_g1::TRINITY_DN11631_c0_g1_i1::g.8169::m.8169	2	8,9	32,672	47,999	PF01975.16	SurE	180,3	3,30E-53	No_clan
TRINITY_DN11631_c1_g1::TRINITY_DN11631_c1_g1_i4::g.8173::m.8173	2	11,6	27,458	2,9852	PF08513.10	LisH	35,4	6,30E-09	CL0561
TRINITY_DN11635_c0_g1::TRINITY_DN11635_c0_g1_i7::g.8217::m.8217	11	37,8	42,385	58,517	PF00274.18	Glycolytic	524,1	1,20E-157	CL0035
TRINITY_DN11637_c0_g1::TRINITY_DN11637_c0_g1_i3::g.8078::m.8078	10	26,5	52,194	125,7					
TRINITY_DN11638_c0_g1::TRINITY_DN11638_c0_g1_i1::g.8051::m.8051	2	5,6	42,63	1,9233					
TRINITY_DN11643_c0_g1::TRINITY_DN11643_c0_g1_i1::g.8230::m.8230	5	26	27,021	8,592	PF01398.20	JAB	43,9	1,80E-11	CL0366
TRINITY_DN11646_c0_g1::TRINITY_DN11646_c0_g1_i1::g.8053::m.8053	2	14,6	18,269	3,181					
TRINITY_DN11648_c0_g3::TRINITY_DN11648_c0_g3_i1::g.8240::m.8240	4	38,9	13,063	6,9739	PF01920.19	Prefoldin_2	67	1,10E-18	CL0200
TRINITY_DN11662_c0_g1::TRINITY_DN11662_c0_g1_i1::g.8281::m.8281	4	20,7	20,552	9,4443	PF00160.20	Pro_isomerase	152,2	1,30E-44	CL0475
TRINITY_DN11669_c0_g1::TRINITY_DN11669_c0_g1_i1::g.8337::m.8337	4	18,5	23,255	7,0596	PF01282.18	Ribosomal_S24e	125,7	4,90E-37	No_clan
TRINITY_DN11674_c0_g1::TRINITY_DN11674_c0_g1_i3::g.8359::m.8359	1	5,8	22,957	1,905	PF00071.21	Ras	182	5,70E-54	CL0023
TRINITY_DN11684_c0_g1::TRINITY_DN11684_c0_g1_i1::g.8363::m.8363	2	11,7	30,569	10,84	PF13460.5	NAD_binding_10	68	8,80E-19	CL0063
TRINITY_DN11687_c0_g1::TRINITY_DN11687_c0_g1_i2::g.8407::m.8407	6	17	46,165	13,734	PF00627.30	UBA	29,7	3,90E-07	CL0214
TRINITY_DN11691_c0_g1::TRINITY_DN11691_c0_g1_i1::g.8068::m.8068	6	16,9	52,272	19,52					
TRINITY_DN11695_c0_g2::TRINITY_DN11695_c0_g2_i5::g.8192::m.8192	2	12,6	27,333	4,8362	PF02544.15	Steroid_dh	23,9	3,00E-05	CL0115
TRINITY_DN11696_c0_g1::TRINITY_DN11696_c0_g1_i4::g.8428::m.8428	10	43,1	37,281	117,45	PF00248.20	Aldo_ket_red	166,2	8,50E-49	No_clan
TRINITY_DN13507_c0_g2::TRINITY_DN13507_c0_g2_i4::g.24688::m.24688	2	23,1	12,769	3,2539	PF01655.17	Ribosomal_L32e	152,9	3,20E-45	No_clan
TRINITY_DN11725_c0_g2::TRINITY_DN11725_c0_g2_i1::g.8540::m.8540	4	25,6	17,245	12,806					

TRINITY_DN11729_c1_g1::TRINITY_DN11729_c1_g1_i5::g.8590::m.8590	1	10,7	16,327	1,9177	PF06984.12	MRP-L47	122,2	6,40E-36	CL0346
TRINITY_DN11737_c0_g1::TRINITY_DN11737_c0_g1_i1::g.8601::m.8601	5	32,4	16,482	254,02	PF00334.18	NDK	186,2	2,30E-55	No_clan
TRINITY_DN11739_c0_g1::TRINITY_DN11739_c0_g1_i1::g.8613::m.8613	2	9,9	38,847	5,1441	PF00827.16	Ribosomal_L15e	33,7	2,60E-08	CL0652
TRINITY_DN11760_c0_g1::TRINITY_DN11760_c0_g1_i1::g.8722::m.8722	6	27,1	34,244	203,06	PF00466.19	Ribosomal_L10	67	1,20E-18	No_clan
TRINITY_DN11771_c0_g1::TRINITY_DN11771_c0_g1_i2::g.8609::m.8609	4	12,3	39,884	6,6477	PF02885.16	Glycos_trans_3N	46,8	1,80E-12	No_clan
TRINITY_DN11779_c0_g1::TRINITY_DN11779_c0_g1_i1::g.8787::m.8787	6	24,4	45,19	44,712	PF00180.19	Iso_dh	460,2	4,00E-138	CL0270
TRINITY_DN11784_c0_g1::TRINITY_DN11784_c0_g1_i1::g.8804::m.8804	3	30	20,961	6,2831					
TRINITY_DN11789_c0_g1::TRINITY_DN11789_c0_g1_i4::g.8830::m.8830	12	43,3	32,494	323,31	PF00903.24	Glyoxalase	80,3	1,20E-22	CL0104
TRINITY_DN11799_c0_g1::TRINITY_DN11799_c0_g1_i1::g.8868::m.8868	2	7,3	53,615	3,088	PF01409.19	tRNA-synt_2d	165,2	1,60E-48	CL0040
TRINITY_DN11806_c0_g1::TRINITY_DN11806_c0_g1_i1::g.8989::m.8989	2	5,2	63,286	3,3968					
TRINITY_DN11842_c0_g1::TRINITY_DN11842_c0_g1_i5::g.9125::m.9125	6	17,5	54,786	16,881	PF13432.5	TPR_16	24,4	3,30E-05	CL0020
TRINITY_DN11846_c0_g3::TRINITY_DN11846_c0_g3_i2::g.9155::m.9155	2	30,8	13,192	19,474					
TRINITY_DN11853_c0_g1::TRINITY_DN11853_c0_g1_i3::g.9201::m.9201	3	12,1	38,385	6,9393	PF08241.11	Methyltransf_11	62,7	3,60E-17	CL0063
TRINITY_DN11854_c0_g1::TRINITY_DN11854_c0_g1_i1::g.9190::m.9190	2	17	15,972	323,31	PF00085.19	Thioredoxin	108,2	1,70E-31	CL0172
TRINITY_DN11860_c0_g1::TRINITY_DN11860_c0_g1_i2::g.9213::m.9213	4	46,5	10,936	2,19	PF00022.18	Actin	148,7	1,70E-43	CL0108
TRINITY_DN11865_c0_g1::TRINITY_DN11865_c0_g1_i7::g.9262::m.9262	3	4	116,34	6,9156	PF05222.14	AlaDh_PNT_N	89,3	2,40E-25	CL0325
TRINITY_DN11876_c0_g1::TRINITY_DN11876_c0_g1_i1::g.9282::m.9282	1	10,3	15,927	2,3413					
TRINITY_DN11883_c0_g2::TRINITY_DN11883_c0_g2_i5::g.9377::m.9377	3	6,8	69,409	6,4991	PF00149.27	Metallophos	72,4	6,60E-20	CL0163
TRINITY_DN11884_c0_g1::TRINITY_DN11884_c0_g1_i2::g.9315::m.9315	1	6,9	34,271	7,017	PF00574.22	CLP_protease	234,4	7,70E-70	CL0127
TRINITY_DN11895_c0_g1::TRINITY_DN11895_c0_g1_i1::g.9352::m.9352	2	9,5	50,838	48,74	PF00332.17	Glyco_hydro_17	347	9,60E-104	CL0058
TRINITY_DN11898_c0_g1::TRINITY_DN11898_c0_g1_i2::g.9380::m.9380	10	23,7	76,319	235,79	PF00326.20	Peptidase_S9	150,2	4,90E-44	CL0028

TRINITY_DN11905_c0_g1::TRINITY_DN11905_c0_g1_i3::g.9416::m.9416	6	30,4	34,798	13,954	PF01459.21	Porin_3	271	1,00E-80	CL0193
TRINITY_DN11909_c0_g1::TRINITY_DN11909_c0_g1_i2::g.9470::m.9470	5	13,6	56,719	38,393	PF00561.19	Abhydrolase_1	54,7	1,10E-14	CL0028
TRINITY_DN11919_c0_g1::TRINITY_DN11919_c0_g1_i1::g.9495::m.9495	4	25,7	25,746	10,697	PF00334.18	NDK	177,8	9,30E-53	No_clan
TRINITY_DN11922_c0_g1::TRINITY_DN11922_c0_g1_i1::g.9511::m.9511	1	5,1	35,818	1,924	PF07859.12	Abhydrolase_3	138,2	3,10E-40	CL0028
TRINITY_DN11924_c0_g1::TRINITY_DN11924_c0_g1_i1::g.9513::m.9513	9	31,9	43,558	162,83	PF08240.11	ADH_N	87,1	6,00E-25	CL0296
TRINITY_DN11935_c0_g1::TRINITY_DN11935_c0_g1_i2::g.9568::m.9568	3	10,8	48,344	6,1653	PF01180.20	DHO_dh	327,2	7,90E-98	CL0036
TRINITY_DN11950_c0_g1::TRINITY_DN11950_c0_g1_i3::g.9633::m.9633	2	10,2	26,585	2,2982	PF00443.28	UCH	102,6	2,30E-29	CL0125
TRINITY_DN11951_c0_g1::TRINITY_DN11951_c0_g1_i4::g.9610::m.9610	4	9	54,682	6,1629	PF08245.11	Mur_ligase_M	28,2	1,50E-06	No_clan
TRINITY_DN11955_c0_g1::TRINITY_DN11955_c0_g1_i1::g.9671::m.9671	6	21	44,879	26,012	PF13561.5	adh_short_C2	225,6	5,90E-67	CL0063
TRINITY_DN11955_c0_g2::TRINITY_DN11955_c0_g2_i1::g.9673::m.9673	4	12,6	41,519	3,1934	PF13561.5	adh_short_C2	225,2	7,80E-67	CL0063
TRINITY_DN11961_c0_g1::TRINITY_DN11961_c0_g1_i6::g.9678::m.9678	3	18,2	25,384	7,3457					
TRINITY_DN11973_c1_g1::TRINITY_DN11973_c1_g1_i7::g.9759::m.9759	6	16,8	55,91	17,617	PF16656.4	Pur_ac_phosph_N	86	1,80E-24	CL0159
TRINITY_DN11975_c0_g1::TRINITY_DN11975_c0_g1_i3::g.9738::m.9738	2	6,5	44,469	2,8207	PF01926.22	MMR_HSR1	73,9	9,70E-21	CL0023
TRINITY_DN11978_c1_g4::TRINITY_DN11978_c1_g4_i1::g.9533::m.9533	2	3,3	60,245	2,7186	PF00939.18	Na_sulph_symp	467,6	5,00E-140	CL0182
TRINITY_DN11984_c0_g1::TRINITY_DN11984_c0_g1_i17::g.9822::m.9822	4	12,4	40,832	4,7572	PF01256.16	Carb_kinase	172,3	1,10E-50	CL0118
TRINITY_DN11989_c0_g1::TRINITY_DN11989_c0_g1_i1::g.9805::m.9805	5	15,3	51,415	8,5474	PF00155.20	Aminotran_1_2	242,4	7,50E-72	CL0061
TRINITY_DN11991_c0_g1::TRINITY_DN11991_c0_g1_i1::g.9823::m.9823	5	13,6	50,567	9,3675	PF01399.26	PCI	72,4	3,40E-20	CL0123
TRINITY_DN12003_c0_g1::TRINITY_DN12003_c0_g1_i1::g.9933::m.9933	6	32,3	29,761	15,234	PF01459.21	Porin_3	207	3,30E-61	CL0193
TRINITY_DN12011_c0_g1::TRINITY_DN12011_c0_g1_i3::g.9976::m.9976	6	18,1	43,433	323,31	PF13181.5	TPR_8	15,7	0,012	CL0020
TRINITY_DN12016_c0_g1::TRINITY_DN12016_c0_g1_i3::g.10082::m.10082	5	26,4	21,386	15,457	PF01775.16	Ribosomal_L18A	181,4	5,10E-54	No_clan
TRINITY_DN12020_c1_g1::TRINITY_DN12020_c1_g1_i2::g.10043::m.10043	4	20,9	32,574	10,917	PF08059.12	SEP	94,4	4,40E-27	No_clan

TRINITY_DN12028_c1_g1::TRINITY_DN12028_c1_g1_i1::g.9901::m.9901	5	26,9	22,596	19,136	PF01565.22	FAD_binding_4	99,3	1,40E-28	CL0077
TRINITY_DN12030_c0_g1::TRINITY_DN12030_c0_g1_i2::g.10080::m.10080	8	20,4	46,907	28,952	PF01546.27	Peptidase_M20	80,4	1,30E-22	CL0035
TRINITY_DN12041_c0_g1::TRINITY_DN12041_c0_g1_i1::g.10132::m.10132	7	27,8	34,559	229,07	PF00719.18	Pyrophosphatase	158,4	1,20E-46	No_clan
TRINITY_DN12047_c0_g1::TRINITY_DN12047_c0_g1_i4::g.10037::m.10037	1	2,8	45,71	1,8697					
TRINITY_DN12060_c0_g1::TRINITY_DN12060_c0_g1_i2::g.10212::m.10212	2	7	40,195	3,8518	PF13516.5	LRR_6	30,9	1,40E-07	CL0022
TRINITY_DN12062_c0_g1::TRINITY_DN12062_c0_g1_i4::g.10228::m.10228	17	43,9	56,545	217,9	PF00483.22	NTP_transferase	228,5	8,70E-68	CL0110
TRINITY_DN12067_c0_g1::TRINITY_DN12067_c0_g1_i1::g.10231::m.10231	7	51,5	15,097	170,91	PF06110.10	DUF953	131,6	9,80E-39	CL0172
TRINITY_DN12068_c0_g1::TRINITY_DN12068_c0_g1_i4::g.10141::m.10141	1	2,7	48,742	1,8506	PF07478.12	Dala_Dala_lig_C	57,8	1,00E-15	CL0179
TRINITY_DN1207_c0_g1::TRINITY_DN1207_c0_g1_i1::g.307::m.307	1	1,5	84,873	2,1464	PF03644.12	Glyco_hydro_85	318,6	4,00E-95	CL0058
TRINITY_DN12086_c0_g1::TRINITY_DN12086_c0_g1_i1::g.10415::m.10415	1	14,2	14,176	2,8747	PF00550.24	PP-binding	48,1	1,00E-12	CL0314
TRINITY_DN12087_c0_g1::TRINITY_DN12087_c0_g1_i3::g.10442::m.10442	2	13,1	21,568	2,0883	PF01105.23	EMP24_GP25L	96,4	1,70E-27	CL0521
TRINITY_DN12093_c0_g1::TRINITY_DN12093_c0_g1_i8::g.10458::m.10458	7	19,1	61,128	10,239	PF07992.13	Pyr_redox_2	215,2	1,00E-63	CL0063
TRINITY_DN12098_c3_g1::TRINITY_DN12098_c3_g1_i8::g.10503::m.10503	2	12,8	25,248	96,319	PF00190.21	Cupin_1	151,4	1,20E-44	CL0029
TRINITY_DN12101_c0_g1::TRINITY_DN12101_c0_g1_i1::g.9937::m.9937	1	3,8	34,154	1,8997	PF04927.11	SMP	69,4	2,50E-19	No_clan
TRINITY_DN12116_c0_g1::TRINITY_DN12116_c0_g1_i3::g.10615::m.10615	4	36,8	13,106	8,9526	PF10417.8	1-cysPrx_C	49,3	3,00E-13	No_clan
TRINITY_DN12116_c0_g2::TRINITY_DN12116_c0_g2_i1::g.10617::m.10617	2	15,2	15,252	30,401	PF00578.20	AhpC-TSA	89,2	1,70E-25	CL0172
TRINITY_DN12118_c0_g1::TRINITY_DN12118_c0_g1_i1::g.10631::m.10631	3	8,1	52,951	5,3631	PF02784.15	Orn_Arg_deC_N	164,9	1,80E-48	CL0036
TRINITY_DN12130_c0_g1::TRINITY_DN12130_c0_g1_i1::g.10682::m.10682	2	18,5	15,277	3,2496					
TRINITY_DN12134_c9_g1::TRINITY_DN12134_c9_g1_i4::g.10752::m.10752	1	2,8	64,83	2,1171	PF01501.19	Glyco_transf_8	306,8	1,10E-91	CL0110
TRINITY_DN12135_c0_g1::TRINITY_DN12135_c0_g1_i2::g.10684::m.10684	2	10	27,299	23,074	PF00657.21	Lipase_GDSL	51	1,60E-13	CL0264
TRINITY_DN12136_c0_g1::TRINITY_DN12136_c0_g1_i2::g.10688::m.10688	4	11	52,808	7,3857	PF00266.18	Aminotran_5	469,8	5,40E-141	CL0061

TRINITY_DN12154_c0_g1::TRINITY_DN12154_c0_g1_i6::g.10864::m.10864	2	8,2	28,088	3,3652					
TRINITY_DN12161_c0_g1::TRINITY_DN12161_c0_g1_i4::g.10883::m.10883	3	35,2	13,853	7,1093					
TRINITY_DN12162_c0_g1::TRINITY_DN12162_c0_g1_i2::g.10879::m.10879	4	37,9	14,479	214,96	PF06094.11	GGACT	54,7	1,40E-14	CL0278
TRINITY_DN12167_c0_g1::TRINITY_DN12167_c0_g1_i7::g.10902::m.10902	2	12,2	28,001	4,5475	PF01956.15	DUF106	176	4,70E-52	CL0376
TRINITY_DN12181_c0_g1::TRINITY_DN12181_c0_g1_i6::g.10945::m.10945	1	7,2	16,763	1,8864	PF12146.7	Hydrolase_4	36,9	2,10E-09	CL0028
TRINITY_DN12184_c0_g1::TRINITY_DN12184_c0_g1_i1::g.10535::m.10535	3	9,1	37,514	3,8527	PF06694.10	Plant_NMP1	631,1	3,00E-190	No_clan
TRINITY_DN12195_c0_g1::TRINITY_DN12195_c0_g1_i1::g.10552::m.10552	4	21,1	25,51	36,622	PF13561.5	adh_short_C2	197	3,10E-58	CL0063
TRINITY_DN12196_c0_g1::TRINITY_DN12196_c0_g1_i3::g.11012::m.11012	2	8,2	27,262	3,6886	PF00230.19	MIP	261,6	5,80E-78	No_clan
TRINITY_DN12201_c0_g1::TRINITY_DN12201_c0_g1_i3::g.10701::m.10701	8	29,8	37,537	30,839	PF00056.22	Ldh_1_N	155,9	6,30E-46	CL0063
TRINITY_DN12213_c0_g1::TRINITY_DN12213_c0_g1_i3::g.11157::m.11157	2	11,1	28,002	7,487	PF13417.5	GST_N_3	51	1,30E-13	CL0172
TRINITY_DN12221_c0_g1::TRINITY_DN12221_c0_g1_i1::g.11196::m.11196	4	25,2	15,257	323,31	PF02298.16	Cu_bind_like	66,2	1,90E-18	CL0026
TRINITY_DN12226_c1_g1::TRINITY_DN12226_c1_g1_i9::g.11323::m.11323	3	30,5	13,063	7,592	PF04667.16	Endosulfine	71,9	3,30E-20	No_clan
TRINITY_DN12247_c0_g5::TRINITY_DN12247_c0_g5_i2::g.11476::m.11476	2	6	49,189	4,9323					
TRINITY_DN12248_c0_g2::TRINITY_DN12248_c0_g2_i1::g.11152::m.11152	5	17,3	48,406	13,347	PF00226.30	DnaJ	84,3	4,40E-24	CL0392
TRINITY_DN12250_c0_g1::TRINITY_DN12250_c0_g1_i2::g.11365::m.11365	8	19	48,948	50,08	PF00009.26	GTP_EFTU	195,8	4,90E-58	CL0023
TRINITY_DN12251_c0_g1::TRINITY_DN12251_c0_g1_i7::g.11382::m.11382	1	13,7	11,392	1,8893	PF10276.8	zf-CHCC	52,6	3,10E-14	CL0045
TRINITY_DN16521_c2_g4::TRINITY_DN16521_c2_g4_i1::g.68855::m.68855	1	9,8	12,384	2,5023	PF01248.25	Ribosomal_L7Ae	79	1,50E-22	CL0101
TRINITY_DN12257_c1_g1::TRINITY_DN12257_c1_g1_i2::g.11446::m.11446	2	4,3	46,865	2,4926	PF00928.20	Adap_comp_sub	263,6	1,60E-78	CL0448
TRINITY_DN12264_c2_g2::TRINITY_DN12264_c2_g2_i2::g.11522::m.11522	7	17,4	65,836	37,478	PF14555.5	UBA_4	51,2	7,20E-14	CL0214
TRINITY_DN12268_c0_g1::TRINITY_DN12268_c0_g1_i1::g.11491::m.11491	5	14,6	52,522	8,0811	PF04597.13	Ribophorin_I	481,1	3,80E-144	No_clan
TRINITY_DN12273_c2_g3::TRINITY_DN12273_c2_g3_i1::g.11683::m.11683	10	63,1	12,143	82,022	PF00244.19	14.03.2003	117,7	4,60E-34	No_clan

TRINITY_DN12275_c0_g1::TRINITY_DN12275_c0_g1_i2::g.11548::m.11548	4	22,9	30,028	4,718	PF01015.17	Ribosomal_S3Ae	323,9	3,50E-97	No_clan
TRINITY_DN15102_c1_g3::TRINITY_DN15102_c1_g3_i1::g.46949::m.46949	2	7,3	37,928	4,7295	PF01946.16	Thi4	381	1,60E-114	CL0063
TRINITY_DN12285_c1_g1::TRINITY_DN12285_c1_g1_i3::g.11619::m.11619	2	7	40,672	7,3401	PF03088.15	Str_synth	117,3	2,30E-34	CL0186
TRINITY_DN12307_c0_g1::TRINITY_DN12307_c0_g1_i3::g.11724::m.11724	5	8,9	70,951	6,3547	PF13812.5	PPR_3	30,8	2,20E-07	CL0020
TRINITY_DN12310_c0_g1::TRINITY_DN12310_c0_g1_i3::g.11787::m.11787	5	16,1	47,905	288,78	PF16499.4	Melibiase_2	280,9	8,80E-84	CL0058
TRINITY_DN12314_c0_g1::TRINITY_DN12314_c0_g1_i2::g.11797::m.11797	6	21,2	42,557	49,02	PF00141.22	peroxidase	151,6	2,50E-44	CL0617
TRINITY_DN12315_c0_g1::TRINITY_DN12315_c0_g1_i2::g.11830::m.11830	3	8,6	60,073	6,7972	PF12108.7	SF3a60_bindingd	47,1	1,50E-12	No_clan
TRINITY_DN12323_c0_g1::TRINITY_DN12323_c0_g1_i4::g.11964::m.11964	10	23,5	55,285	13,809	PF00224.20	PK	526	3,20E-158	CL0151
TRINITY_DN12323_c0_g2::TRINITY_DN12323_c0_g2_i9::g.11969::m.11969	6	13,9	58,782	9,0912	PF13943.5	WPP	122,1	9,20E-36	No_clan
TRINITY_DN12323_c0_g2::TRINITY_DN12323_c0_g2_i3::g.11963::m.11963	3	21,4	16,47	4,8041	PF00380.18	Ribosomal_S9	111,3	3,60E-32	CL0329
TRINITY_DN12324_c0_g2::TRINITY_DN12324_c0_g2_i2::g.11908::m.11908	5	22,6	26,176	22,633	PF01991.17	vATP-synt_E	230,6	1,00E-68	CL0255
TRINITY_DN12329_c1_g1::TRINITY_DN12329_c1_g1_i1::g.11925::m.11925	10	29,3	41,185	151,68	PF01937.18	DUF89	183,1	7,00E-54	No_clan
TRINITY_DN12332_c0_g1::TRINITY_DN12332_c0_g1_i2::g.11982::m.11982	5	22,8	31,412	148,32	PF04969.15	CS	76,3	2,70E-21	CL0190
TRINITY_DN12342_c1_g2::TRINITY_DN12342_c1_g2_i2::g.12106::m.12106	1	6,2	20,882	3,0972	PF02298.16	Cu_bind_like	82,7	1,30E-23	CL0026
TRINITY_DN12342_c1_g3::TRINITY_DN12342_c1_g3_i1::g.12105::m.12105	4	29,5	18,879	164,55	PF02298.16	Cu_bind_like	71,6	3,80E-20	CL0026
TRINITY_DN12343_c0_g1::TRINITY_DN12343_c0_g1_i5::g.11815::m.11815	3	20,4	22,179	8,4301	PF01251.17	Ribosomal_S7e	269,7	1,00E-80	CL0652
TRINITY_DN12343_c1_g1::TRINITY_DN12343_c1_g1_i5::g.11822::m.11822	3	14,7	21,938	28,575	PF01251.17	Ribosomal_S7e	266,1	1,30E-79	CL0652
TRINITY_DN12348_c0_g1::TRINITY_DN12348_c0_g1_i1::g.11710::m.11710	1	14	15,716	4,7837					
TRINITY_DN12349_c8_g2::TRINITY_DN12349_c8_g2_i1::g.12068::m.12068	4	30,9	16,085	66,679	PF00076.21	RRM_1	34,9	9,50E-09	CL0221
TRINITY_DN12349_c8_g2::TRINITY_DN12349_c8_g2_i3::g.12071::m.12071	4	29,9	17,934	7,0584					
TRINITY_DN12352_c0_g2::TRINITY_DN12352_c0_g2_i4::g.12096::m.12096	1	4,2	31,251	2,3194	PF01650.17	Peptidase_C13	333,4	8,50E-100	CL0093

TRINITY_DN12353_c0_g1::TRINITY_DN12353_c0_g1_i1::g.12504::m.12504	2	10	45,75	2,9809	PF00201.17	UDPGT	47	1,50E-12	CL0113
TRINITY_DN12358_c0_g1::TRINITY_DN12358_c0_g1_i4::g.12129::m.12129	5	14,4	51,233	12,976	PF14555.5	UBA_4	39,7	2,80E-10	CL0214
TRINITY_DN12363_c0_g1::TRINITY_DN12363_c0_g1_i2::g.12162::m.12162	3	7	72,923	6,1467	PF02446.16	Glyco_hydro_77	497,1	4,60E-149	CL0058
TRINITY_DN12367_c0_g1::TRINITY_DN12367_c0_g1_i3::g.12189::m.12189	6	23,6	47,179	35,992	PF08240.11	ADH_N	97,2	4,40E-28	CL0296
TRINITY_DN12375_c3_g1::TRINITY_DN12375_c3_g1_i9::g.12353::m.12353	4	11,1	57,868	5,3067	PF03141.15	Methyltransf_29	611,5	1,00E-183	CL0063
TRINITY_DN12375_c3_g5::TRINITY_DN12375_c3_g5_i1::g.12365::m.12365	7	16,6	69,166	19,274	PF03141.15	Methyltransf_29	763,5	8,60E-230	CL0063
TRINITY_DN12384_c0_g1::TRINITY_DN12384_c0_g1_i2::g.12333::m.12333	2	11,1	29,097	4,6285	PF01729.18	QRPTase_C	196,3	2,80E-58	CL0036
TRINITY_DN12386_c0_g1::TRINITY_DN12386_c0_g1_i3::g.12387::m.12387	3	7,1	64,819	6,2601	PF00995.22	Sec1	422,5	4,00E-126	No_clan
TRINITY_DN12393_c0_g1::TRINITY_DN12393_c0_g1_i2::g.12483::m.12483	4	12,5	39,579	41,781	PF01408.21	GFO_IDH_MocA	64,3	1,60E-17	CL0063
TRINITY_DN12397_c0_g1::TRINITY_DN12397_c0_g1_i3::g.12463::m.12463	23	38,5	95,342	323,31	PF01301.18	Glyco_hydro_35	394,7	3,70E-118	CL0058
TRINITY_DN12399_c0_g1::TRINITY_DN12399_c0_g1_i1::g.12011::m.12011	1	3	51,483	2,0848	PF00450.21	Peptidase_S10	264,3	2,50E-78	CL0028
TRINITY_DN12400_c3_g4::TRINITY_DN12400_c3_g4_i4::g.12578::m.12578	1	1,7	92,227	2,6861	PF06972.10	DUF1296	107,2	3,00E-31	CL0214
TRINITY_DN12400_c4_g2::TRINITY_DN12400_c4_g2_i2::g.12585::m.12585	1	6,3	14,119	2,2679	PF00173.27	Cyt-b5	63,6	1,30E-17	No_clan
TRINITY_DN12403_c0_g1::TRINITY_DN12403_c0_g1_i5::g.12601::m.12601	1	9,1	13,767	2,3962	PF00011.20	HSP20	67,4	8,90E-19	CL0190
TRINITY_DN12405_c0_g1::TRINITY_DN12405_c0_g1_i1::g.12602::m.12602	3	5,6	62,218	3,0815	PF00333.19	Ribosomal_S5	62,7	2,10E-17	CL0196
TRINITY_DN12422_c0_g1::TRINITY_DN12422_c0_g1_i2::g.12726::m.12726	6	24,8	31,221	13,067	PF13419.5	HAD_2	59,3	4,70E-16	CL0137
TRINITY_DN12426_c1_g1::TRINITY_DN12426_c1_g1_i1::g.12851::m.12851	8	41,6	30,351	168,05	PF06999.11	Suc_Fer-like	132,2	1,90E-38	No_clan
TRINITY_DN12436_c4_g2::TRINITY_DN12436_c4_g2_i4::g.12996::m.12996	7	15,9	59,145	14,754	PF00118.23	Cpn60_TCP1	520,5	3,70E-156	No_clan
TRINITY_DN12438_c0_g1::TRINITY_DN12438_c0_g1_i11::g.12896::m.12896	5	22,1	39,342	11,297	PF09412.9	XendoU	205,9	6,00E-61	No_clan
TRINITY_DN12438_c0_g2::TRINITY_DN12438_c0_g2_i1::g.12882::m.12882	2	11,3	23,404	2,3618					

TRINITY_DN12440_c1_g1::TRINITY_DN12440_c1_g1_i2::g.13042::m.13042	5	11,3	58,372	5,6909	PF00171.21	Aldedh	603,9	1,50E-181	CL0099
TRINITY_DN12440_c1_g2::TRINITY_DN12440_c1_g2_i1::g.13039::m.13039	13	35,1	58,592	45,751	PF00171.21	Aldedh	598,9	4,90E-180	CL0099
TRINITY_DN12441_c0_g1::TRINITY_DN12441_c0_g1_i1::g.12899::m.12899	9	19,2	62,901	39,664	PF02018.16	CBM_4_9	41,6	1,30E-10	CL0202
TRINITY_DN12445_c0_g2::TRINITY_DN12445_c0_g2_i13::g.12955::m.12955	5	60,1	15,633	14,757	PF02127.14	Peptidase_M18	159,4	1,20E-46	CL0035
TRINITY_DN12452_c0_g1::TRINITY_DN12452_c0_g1_i1::g.12978::m.12978	8	25,7	33,243	41,983	PF00389.29	2-Hacid_dh	52,4	3,90E-14	CL0325
TRINITY_DN12454_c0_g1::TRINITY_DN12454_c0_g1_i1::g.12984::m.12984	6	16,4	55,469	21,85	PF00240.22	ubiquitin	31,6	9,50E-08	CL0072
TRINITY_DN12460_c3_g3::TRINITY_DN12460_c3_g3_i1::g.13367::m.13367	2	16,6	16,368	7,3412					
TRINITY_DN12462_c4_g1::TRINITY_DN12462_c4_g1_i1::g.13140::m.13140	1	7,4	14,864	1,9505	PF00350.22	Dynamin_N	99,3	2,30E-28	CL0023
TRINITY_DN12468_c0_g1::TRINITY_DN12468_c0_g1_i1::g.13082::m.13082	7	19,7	48,87	22,617	PF03345.13	DDOST_48kD	432,9	1,10E-129	No_clan
TRINITY_DN12471_c0_g1::TRINITY_DN12471_c0_g1_i6::g.13129::m.13129	2	11,3	40,827	5,5462	PF04280.14	Tim44	148,5	1,30E-43	CL0051
TRINITY_DN12477_c0_g1::TRINITY_DN12477_c0_g1_i2::g.13209::m.13209	11	29,7	60,945	18,48	PF02776.17	TPP_enzyme_N	139,3	8,60E-41	CL0254
TRINITY_DN12478_c4_g4::TRINITY_DN12478_c4_g4_i5::g.13332::m.13332	3	15,5	28,002	7,1971					
TRINITY_DN12480_c0_g2::TRINITY_DN12480_c0_g2_i1::g.13216::m.13216	3	23	14,065	5,7112	PF04718.14	ATP-synt_G	80,2	1,50E-22	No_clan
TRINITY_DN12481_c0_g1::TRINITY_DN12481_c0_g1_i2::g.13223::m.13223	2	11,7	16,309	3,8665	PF01124.17	MAPEG	84	7,50E-24	No_clan
TRINITY_DN12499_c2_g2::TRINITY_DN12499_c2_g2_i3::g.13408::m.13408	4	36,3	14,053	8,199	PF01776.16	Ribosomal_L22e	154,1	1,30E-45	No_clan
TRINITY_DN12503_c2_g1::TRINITY_DN12503_c2_g1_i3::g.13440::m.13440	2	24,6	14,417	4,1064	PF00255.18	GSHPx	92,2	1,30E-26	CL0172
TRINITY_DN12509_c0_g1::TRINITY_DN12509_c0_g1_i1::g.13435::m.13435	4	23,4	32,321	6,7868	PF00300.21	His_Phos_1	26,2	5,30E-06	CL0071
TRINITY_DN12510_c1_g1::TRINITY_DN12510_c1_g1_i1::g.13448::m.13448	1	2	78,439	2,1367	PF07676.11	PD40	28,5	9,30E-07	CL0186
TRINITY_DN12512_c0_g1::TRINITY_DN12512_c0_g1_i7::g.13451::m.13451	1	8,2	13,898	2,0302	PF04718.14	ATP-synt_G	82,7	2,50E-23	No_clan
TRINITY_DN12515_c0_g1::TRINITY_DN12515_c0_g1_i3::g.13461::m.13461	5	16,7	44,31	8,9716	PF01571.20	GCV_T	293,6	1,00E-87	CL0289

TRINITY_DN12516_c0_g1::TRINITY_DN12516_c0_g1_i2::g.13472::m.13472	8	11,8	92,627	25,133	PF00862.18	Sucrose_synth	971,7	7,60E-293	CL0113
TRINITY_DN12519_c1_g2::TRINITY_DN12519_c1_g2_i2::g.13489::m.13489	2	17,8	15,587	3,2822	PF14008.5	Metallophos_C	40,4	3,70E-10	No_clan
TRINITY_DN12524_c0_g1::TRINITY_DN12524_c0_g1_i3::g.13484::m.13484	1	4,6	35,564	2,149	PF04755.11	PAP_fibrillin	263,7	1,00E-78	No_clan
TRINITY_DN12528_c1_g2::TRINITY_DN12528_c1_g2_i1::g.13492::m.13492	1	6	35,278	3,0289	PF01025.18	GrpE	142,1	1,10E-41	No_clan
TRINITY_DN12529_c0_g1::TRINITY_DN12529_c0_g1_i3::g.13512::m.13512	7	22	47,218	16,376	PF00571.27	CBS	28,6	1,30E-06	No_clan
TRINITY_DN12530_c0_g1::TRINITY_DN12530_c0_g1_i1::g.13568::m.13568	3	19,3	23,95	8,1316	PF01849.17	NAC	78,2	3,20E-22	No_clan
TRINITY_DN12537_c1_g2::TRINITY_DN12537_c1_g2_i4::g.13603::m.13603	7	36,9	16,961	164,9					
TRINITY_DN12537_c1_g2::TRINITY_DN12537_c1_g2_i7::g.13611::m.13611	5	33,1	14,369	11,647					
TRINITY_DN12537_c5_g1::TRINITY_DN12537_c5_g1_i1::g.13612::m.13612	1	12,2	13,244	26,079					
TRINITY_DN12538_c0_g3::TRINITY_DN12538_c0_g3_i3::g.13566::m.13566	12	48,9	37,853	323,31	PF16363.4	GDP_Man_Dehyd	216,3	6,60E-64	CL0063
TRINITY_DN12541_c0_g1::TRINITY_DN12541_c0_g1_i2::g.13592::m.13592	1	8,3	20,806	5,143	PF05753.13	TRAP_beta	190,1	2,00E-56	CL0159
TRINITY_DN12552_c0_g1::TRINITY_DN12552_c0_g1_i2::g.13425::m.13425	2	15,2	18,488	3,9279	PF12689.6	Acid_PPase	77,4	1,00E-21	CL0137
TRINITY_DN12560_c1_g1::TRINITY_DN12560_c1_g1_i3::g.13781::m.13781	2	12,9	22,972	15,696	PF00076.21	RRM_1	52,5	2,90E-14	CL0221
TRINITY_DN12561_c1_g1::TRINITY_DN12561_c1_g1_i2::g.13897::m.13897	5	40,4	11,098	269,47	PF01095.18	Pectinesterase	65,9	2,30E-18	CL0268
TRINITY_DN12563_c3_g1::TRINITY_DN12563_c3_g1_i1::g.13893::m.13893	2	18,7	16,386	3,9891					
TRINITY_DN12563_c5_g1::TRINITY_DN12563_c5_g1_i1::g.13894::m.13894	19	23,1	111,5	125,49	PF00686.18	CBM_20	74,6	4,20E-21	CL0369
TRINITY_DN12583_c1_g3::TRINITY_DN12583_c1_g3_i1::g.14008::m.14008	1	5,4	31,111	36,132	PF00069.24	Pkinase	103,1	1,50E-29	CL0016
TRINITY_DN12587_c0_g1::TRINITY_DN12587_c0_g1_i1::g.13954::m.13954	6	31	24,898	37,383	PF00106.24	adh_short	136,4	7,60E-40	CL0063
TRINITY_DN12588_c4_g1::TRINITY_DN12588_c4_g1_i6::g.14071::m.14071	10	48	31,388	37,743	PF03446.14	NAD_binding_2	137	5,70E-40	CL0063
TRINITY_DN12590_c1_g3::TRINITY_DN12590_c1_g3_i2::g.13976::m.13976	3	10,5	29,975	4,0223					
TRINITY_DN12590_c2_g2::TRINITY_DN12590_c2_g2_i2::g.13982::m.13982	4	22,1	20,544	248,88	PF11938.7	DUF3456	105,2	4,30E-30	No_clan

TRINITY_DN12592_c2_g1::TRINITY_DN12592_c2_g1_i5::g.14064::m.14064	2	32,4	10,996	41,937	PF08752.9	COP-gamma_platf	109,5	1,40E-31	CL0159
TRINITY_DN12593_c2_g1::TRINITY_DN12593_c2_g1_i1::g.14128::m.14128	2	10,6	16,617	2,6195					
TRINITY_DN12593_c3_g1::TRINITY_DN12593_c3_g1_i6::g.14142::m.14142	6	16	52,022	8,634	PF00365.19	PFK	210,5	2,80E-62	CL0240
TRINITY_DN12599_c0_g1::TRINITY_DN12599_c0_g1_i6::g.14058::m.14058	15	39,1	52,742	62,706	PF00118.23	Cpn60_TCP1	244,3	2,10E-72	No_clan
TRINITY_DN12608_c0_g1::TRINITY_DN12608_c0_g1_i2::g.14177::m.14177	1	2,8	28,293	1,9142	PF03876.16	SHS2_Rpb7-N	29,7	5,80E-07	CL0319
TRINITY_DN12611_c0_g2::TRINITY_DN12611_c0_g2_i7::g.14237::m.14237	2	9,4	26,17	3,2677	PF01135.18	PCMT	287,4	6,20E-86	CL0063
TRINITY_DN12614_c0_g1::TRINITY_DN12614_c0_g1_i2::g.14256::m.14256	11	26,8	61,412	47,683	PF00365.19	PFK	125,1	3,00E-36	CL0240
TRINITY_DN12615_c0_g2::TRINITY_DN12615_c0_g2_i14::g.14340::m.14340	2	52,3	11,314	29,029	PF00428.18	Ribosomal_60s	91,3	4,00E-26	No_clan
TRINITY_DN12618_c1_g1::TRINITY_DN12618_c1_g1_i9::g.14449::m.14449	1	4,3	40,164	1,8695	PF00076.21	RRM_1	50,1	1,70E-13	CL0221
TRINITY_DN12620_c0_g1::TRINITY_DN12620_c0_g1_i4::g.14272::m.14272	2	6,3	64,804	4,965					
TRINITY_DN12621_c1_g1::TRINITY_DN12621_c1_g1_i2::g.14309::m.14309	8	40,2	28,964	16,327	PF03767.13	Acid_phosphat_B	237	1,90E-70	CL0137
TRINITY_DN12624_c0_g1::TRINITY_DN12624_c0_g1_i1::g.14480::m.14480	6	17,6	52,469	9,1472	PF00702.25	Hydrolase	49,5	5,80E-13	CL0137
TRINITY_DN12625_c0_g2::TRINITY_DN12625_c0_g2_i2::g.14331::m.14331	4	14,6	62,19	13,321	PF03000.13	NPH3	308	5,50E-92	No_clan
TRINITY_DN12628_c0_g1::TRINITY_DN12628_c0_g1_i15::g.14380::m.14380	2	13,1	18,989	3,7978					
TRINITY_DN12632_c0_g1::TRINITY_DN12632_c0_g1_i1::g.14398::m.14398	2	9,8	34,293	4,9547	PF12263.7	DUF3611	186,5	3,60E-55	No_clan
TRINITY_DN12634_c0_g1::TRINITY_DN12634_c0_g1_i2::g.14412::m.14412	1	3,3	54,766	2,1789	PF00009.26	GTP_EFTU	105,9	1,80E-30	CL0023
TRINITY_DN12636_c0_g1::TRINITY_DN12636_c0_g1_i3::g.14427::m.14427	4	38,7	20,401	57,945					
TRINITY_DN12639_c0_g1::TRINITY_DN12639_c0_g1_i2::g.14158::m.14158	2	7,3	29,108	2,0607	PF02453.16	Reticulon	193,4	2,00E-57	No_clan
TRINITY_DN12640_c0_g1::TRINITY_DN12640_c0_g1_i4::g.14587::m.14587	9	32,5	44,576	28,192	PF00790.18	VHS	66,9	1,50E-18	CL0009
TRINITY_DN12647_c0_g1::TRINITY_DN12647_c0_g1_i2::g.14733::m.14733	6	41,4	20,705	55,129	PF08752.9	COP-gamma_platf	66,8	2,00E-18	CL0159
TRINITY_DN12648_c0_g1::TRINITY_DN12648_c0_g1_i4::g.15036::m.15036	9	54,5	22,693	18,347	PF00071.21	Ras	189,9	2,20E-56	CL0023
TRINITY_DN1265_c0_g1::TRINITY_DN1265_c0_g1_i1::g.324::m.324	5	29,2	34,112	11,577					

TRINITY_DN12654_c0_g3::TRINITY_DN12654_c0_g3_i5::g.14722::m.14722	7	14,1	73,54	16,866	PF01433.19	Peptidase_M1	150,8	3,70E-44	CL0126
TRINITY_DN12655_c1_g2::TRINITY_DN12655_c1_g2_i3::g.14763::m.14763	3	9,1	47,376	5,354	PF00400.31	WD40	13,4	0,1	CL0186
TRINITY_DN12658_c0_g1::TRINITY_DN12658_c0_g1_i2::g.14732::m.14732	4	39,3	13,644	9,4422	PF05347.14	Complex1_LYR	28,2	1,30E-06	CL0491
TRINITY_DN12675_c1_g1::TRINITY_DN12675_c1_g1_i4::g.14912::m.14912	5	21,7	33,27	5,0412	PF00575.22	S1	50,1	2,50E-13	CL0021
TRINITY_DN12675_c1_g1::TRINITY_DN12675_c1_g1_i2::g.14909::m.14909	7	27,6	38,736	12,913	PF00575.22	S1	48,8	6,30E-13	CL0021
TRINITY_DN12678_c0_g1::TRINITY_DN12678_c0_g1_i7::g.14864::m.14864	3	10	49,888	12,202	PF16969.4	SRP68	370,2	2,20E-110	No_clan
TRINITY_DN12690_c0_g1::TRINITY_DN12690_c0_g1_i3::g.14937::m.14937	29	61,4	61,127	323,31	PF01676.17	Metalloenzyme	347,5	3,20E-104	CL0088
TRINITY_DN12692_c0_g1::TRINITY_DN12692_c0_g1_i7::g.14951::m.14951	14	38,9	46,637	323,31	PF16113.4	ECH_2	358,2	5,00E-107	CL0127
TRINITY_DN12693_c0_g1::TRINITY_DN12693_c0_g1_i1::g.14939::m.14939	4	36,3	12,84	5,2838					
TRINITY_DN12693_c0_g1::TRINITY_DN12693_c0_g1_i3::g.14940::m.14940	3	30,5	14,524	134,24	PF01370.20	Epimerase	22,4	6,70E-05	CL0063
TRINITY_DN12696_c1_g1::TRINITY_DN12696_c1_g1_i6::g.15028::m.15028	1	7,7	20,448	2,4632	PF02190.15	LON_substr_bdg	64,6	1,00E-17	CL0178
TRINITY_DN12699_c0_g1::TRINITY_DN12699_c0_g1_i1::g.14170::m.14170	9	43,8	16,024	264,98	PF01190.16	Pollen_Ole_e_I	66,4	2,10E-18	No_clan
TRINITY_DN12699_c0_g1::TRINITY_DN12699_c0_g1_i7::g.14174::m.14174	8	45,5	13,891	323,31	PF01190.16	Pollen_Ole_e_I	38,5	1,00E-09	No_clan
TRINITY_DN12704_c0_g1::TRINITY_DN12704_c0_g1_i4::g.15091::m.15091	4	20,9	30,37	8,3129	PF00153.26	Mito_carr	62,5	2,40E-17	No_clan
TRINITY_DN12707_c0_g1::TRINITY_DN12707_c0_g1_i3::g.15086::m.15086	1	3,2	34,116	10,626	PF01156.18	IU_nuc_hydro	227,4	2,80E-67	No_clan
TRINITY_DN12711_c1_g1::TRINITY_DN12711_c1_g1_i2::g.15227::m.15227	9	36	41,447	114,98	PF00240.22	ubiquitin	68,2	3,50E-19	CL0072
TRINITY_DN12711_c1_g1::TRINITY_DN12711_c1_g1_i4::g.15231::m.15231	4	16,4	29,048	2,8238	PF00627.30	UBA	52,8	2,40E-14	CL0214
TRINITY_DN12713_c0_g2::TRINITY_DN12713_c0_g2_i2::g.15182::m.15182	6	18,3	40,952	13,3	PF03214.12	RGP	579,9	1,50E-174	CL0110
TRINITY_DN12714_c1_g2::TRINITY_DN12714_c1_g2_i1::g.15270::m.15270	1	3,4	50,215	2,6565	PF06814.12	Lung_7-TM_R	167,3	4,10E-49	CL0192
TRINITY_DN12721_c0_g3::TRINITY_DN12721_c0_g3_i6::g.15362::m.15362	4	36,7	12,345	63,436	PF07876.11	Dabb	107,1	5,10E-31	CL0032

TRINITY_DN12723_c0_g1::TRINITY_DN12723_c0_g1_i2::g.15224::m.15224	3	7,6	51,344	7,2983	PF10602.8	RPN7	194,3	1,20E-57	CL0020
TRINITY_DN12731_c3_g2::TRINITY_DN12731_c3_g2_i1::g.15534::m.15534	1	12,4	11,132	3,8158	PF00295.16	Glyco_hydro_28	120,9	5,20E-35	CL0268
TRINITY_DN12731_c3_g4::TRINITY_DN12731_c3_g4_i1::g.15536::m.15536	1	5,4	19,39	1,9945	PF00295.16	Glyco_hydro_28	43,5	1,90E-11	CL0268
TRINITY_DN12733_c0_g1::TRINITY_DN12733_c0_g1_i1::g.15369::m.15369	4	25,3	20,083	2,4186	PF00071.21	Ras	164,2	1,60E-48	CL0023
TRINITY_DN12745_c0_g1::TRINITY_DN12745_c0_g1_i6::g.15122::m.15122	1	9,6	15,105	2,2191	PF04367.12	DUF502	81,2	4,20E-23	No_clan
TRINITY_DN12750_c0_g2::TRINITY_DN12750_c0_g2_i1::g.15503::m.15503	2	9,7	36,666	3,9919	PF03283.12	PAE	463,3	4,80E-139	CL0028
TRINITY_DN12755_c3_g1::TRINITY_DN12755_c3_g1_i1::g.16006::m.16006	2	13,8	19,352	3,9022	PF13855.5	LRR_8	28	1,30E-06	CL0022
TRINITY_DN12761_c4_g1::TRINITY_DN12761_c4_g1_i4::g.15698::m.15698	6	23,9	26,681	102,8	PF00635.25	Motile_Sperm	104,8	2,00E-30	CL0556
TRINITY_DN12761_c4_g2::TRINITY_DN12761_c4_g2_i1::g.15691::m.15691	1	8,6	13,004	1,9804					
TRINITY_DN12765_c0_g2::TRINITY_DN12765_c0_g2_i9::g.15778::m.15778	2	9,7	25,693	3,2909	PF00160.20	Pro_isomerase	97,6	7,70E-28	CL0475
TRINITY_DN12769_c0_g3::TRINITY_DN12769_c0_g3_i1::g.15717::m.15717	5	56,2	14,972	323,31	PF00076.21	RRM_1	84,1	3,90E-24	CL0221
TRINITY_DN12776_c1_g2::TRINITY_DN12776_c1_g2_i6::g.15805::m.15805	2	22,4	11,802	323,31					
TRINITY_DN12779_c0_g1::TRINITY_DN12779_c0_g1_i3::g.15740::m.15740	5	11,2	62,843	69,402	PF01293.19	PEPCK_ATP	712,4	2,10E-214	CL0374
TRINITY_DN12789_c1_g2::TRINITY_DN12789_c1_g2_i26::g.15965::m.15965	2	13,1	20,932	40,035	PF08263.11	LRRNT_2	38,4	1,00E-09	No_clan
TRINITY_DN12789_c1_g2::TRINITY_DN12789_c1_g2_i12::g.15958::m.15958	1	8,9	14,737	16,581	PF00106.24	adh_short	76,8	1,30E-21	CL0063
TRINITY_DN12789_c1_g2::TRINITY_DN12789_c1_g2_i25::g.15964::m.15964	1	8,2	11,949	4,9304	PF00106.24	adh_short	72,7	2,40E-20	CL0063
TRINITY_DN12813_c0_g1::TRINITY_DN12813_c0_g1_i4::g.16165::m.16165	16	52,4	35,589	323,31	PF00056.22	Ldh_1_N	114	5,40E-33	CL0063
TRINITY_DN12824_c1_g1::TRINITY_DN12824_c1_g1_i1::g.16233::m.16233	2	11,3	24,145	4,8637					
TRINITY_DN12824_c2_g2::TRINITY_DN12824_c2_g2_i6::g.16244::m.16244	9	40,7	21,994	35,015	PF00160.20	Pro_isomerase	158	2,10E-46	CL0475
TRINITY_DN12826_c0_g1::TRINITY_DN12826_c0_g1_i1::g.16222::m.16222	4	23,6	31,202	9,737	PF02265.15	S1-P1_nuclease	238,3	1,00E-70	CL0368
TRINITY_DN12828_c0_g1::TRINITY_DN12828_c0_g1_i2::g.16430::m.16430	1	7,2	16,473	2,1061	PF00071.21	Ras	120,8	3,80E-35	CL0023

TRINITY_DN12829_c0_g1::TRINITY_DN12829_c0_g1_i5::g.16229::m.16229	2	20	17,221	5,1261	PF08240.11	ADH_N	32,3	6,50E-08	CL0296
TRINITY_DN12832_c2_g6::TRINITY_DN12832_c2_g6_i1::g.16307::m.16307	7	33,4	31,584	32,324	PF01145.24	Band_7	85,5	4,10E-24	CL0433
TRINITY_DN12832_c2_g7::TRINITY_DN12832_c2_g7_i2::g.16314::m.16314	5	21,4	31,776	8,1476	PF01145.24	Band_7	77,4	1,30E-21	CL0433
TRINITY_DN12837_c2_g1::TRINITY_DN12837_c2_g1_i5::g.16578::m.16578	3	22	12,709	8,1656					
TRINITY_DN12837_c2_g2::TRINITY_DN12837_c2_g2_i1::g.16572::m.16572	5	33,5	18,775	4,9411	PF00295.16	Glyco_hydro_28	38,2	7,80E-10	CL0268
TRINITY_DN12837_c2_g2::TRINITY_DN12837_c2_g2_i2::g.16573::m.16573	4	28,7	21,557	-2	PF00295.16	Glyco_hydro_28	36	3,80E-09	CL0268
TRINITY_DN12837_c2_g2::TRINITY_DN12837_c2_g2_i7::g.16580::m.16580	6	48,2	18,547	323,31	PF00295.16	Glyco_hydro_28	36,1	3,40E-09	CL0268
TRINITY_DN12837_c2_g6::TRINITY_DN12837_c2_g6_i1::g.16583::m.16583	1	14,1	11,024	67,241					
TRINITY_DN12843_c0_g1::TRINITY_DN12843_c0_g1_i3::g.16447::m.16447	3	3,8	115,52	5,125	PF08323.10	Glyco_transf_5	224,2	1,80E-66	CL0113
TRINITY_DN12846_c1_g3::TRINITY_DN12846_c1_g3_i2::g.16059::m.16059	2	21,6	18,372	5,9011	PF02560.13	Cyanate_lyase	102,9	5,60E-30	No_clan
TRINITY_DN12853_c0_g1::TRINITY_DN12853_c0_g1_i3::g.16604::m.16604	10	32,9	42,351	41,194	PF01145.24	Band_7	70,2	2,00E-19	CL0433
TRINITY_DN12855_c4_g1::TRINITY_DN12855_c4_g1_i7::g.16693::m.16693	4	10,6	53,898	2,4634	PF00485.17	PRK	153,5	5,30E-45	CL0023
TRINITY_DN12856_c0_g1::TRINITY_DN12856_c0_g1_i4::g.16613::m.16613	3	11,9	52,438	8,4217	PF04774.14	HABP4_PAI-RBP1	31,8	2,00E-07	No_clan
TRINITY_DN12857_c0_g1::TRINITY_DN12857_c0_g1_i2::g.16763::m.16763	4	16,4	39,068	6,7275	PF04755.11	PAP_fibrillin	229,6	3,00E-68	No_clan
TRINITY_DN12861_c0_g1::TRINITY_DN12861_c0_g1_i2::g.16621::m.16621	3	17,6	20,321	3,4408	PF14622.5	Ribonucleas_3_3	39,6	4,80E-10	CL0539
TRINITY_DN12877_c0_g1::TRINITY_DN12877_c0_g1_i2::g.16745::m.16745	3	16,6	23,799	323,31	PF07876.11	Dabb	66	3,40E-18	CL0032
TRINITY_DN12879_c0_g1::TRINITY_DN12879_c0_g1_i1::g.16746::m.16746	6	37	27,288	137,9	PF00756.19	Esterase	181,2	2,50E-53	CL0028
TRINITY_DN12880_c1_g2::TRINITY_DN12880_c1_g2_i3::g.16816::m.16816	9	45,8	26,677	41,77	PF14290.5	DUF4370	392,9	5,90E-118	No_clan
TRINITY_DN12883_c0_g1::TRINITY_DN12883_c0_g1_i3::g.16877::m.16877	7	39	25,909	27,726	PF00903.24	Glyoxalase	75	5,50E-21	CL0104
TRINITY_DN12883_c0_g1::TRINITY_DN12883_c0_g1_i6::g.16879::m.16879	7	39	25,885	156,85	PF00903.24	Glyoxalase	75	5,50E-21	CL0104
TRINITY_DN12888_c1_g1::TRINITY_DN12888_c1_g1_i1::g.16988::m.16988	4	30,7	22,811	16,805	PF04832.11	SOUL	68,8	5,70E-19	CL0319

TRINITY_DN12890_c2_g4::TRINITY_DN12890_c2_g4_i2::g.17047::m.17047	1	10,8	13,324	168,26					
TRINITY_DN12893_c0_g1::TRINITY_DN12893_c0_g1_i1::g.17069::m.17069	5	59,6	11,029	24,208	PF01722.17	BolA	73,3	1,30E-20	No_clan
TRINITY_DN12896_c0_g1::TRINITY_DN12896_c0_g1_i6::g.17068::m.17068	3	11,7	29,532	3,6372	PF02374.14	ArsA_ATPase	234,4	1,60E-69	CL0023
TRINITY_DN12897_c1_g1::TRINITY_DN12897_c1_g1_i8::g.17082::m.17082	3	14,8	32,849	4,7236	PF04176.12	TIP41	205,3	4,20E-61	No_clan
TRINITY_DN12914_c1_g1::TRINITY_DN12914_c1_g1_i4::g.17252::m.17252	2	24,5	11,09	5,5438	PF00403.25	HMA	62,2	4,20E-17	No_clan
TRINITY_DN12917_c0_g1::TRINITY_DN12917_c0_g1_i8::g.17363::m.17363	2	22,2	13,076	3,2462	PF00226.30	DnaJ	93,3	6,70E-27	CL0392
TRINITY_DN12927_c2_g2::TRINITY_DN12927_c2_g2_i9::g.17583::m.17583	9	17,8	97,572	19,704	PF02922.17	CBM_48	65,6	3,50E-18	CL0369
TRINITY_DN12931_c0_g1::TRINITY_DN12931_c0_g1_i4::g.17462::m.17462	4	25,6	21,704	9,6096	PF03665.12	UPF0172	177,1	3,70E-52	CL0366
TRINITY_DN12935_c1_g1::TRINITY_DN12935_c1_g1_i3::g.17528::m.17528	6	23	21,668	2,0062	PF00107.25	ADH_zinc_N	89,3	1,80E-25	CL0063
TRINITY_DN12952_c0_g1::TRINITY_DN12952_c0_g1_i2::g.17756::m.17756	5	18,1	38,692	52,202	PF01063.18	Aminotran_4	129	2,20E-37	No_clan
TRINITY_DN12955_c2_g1::TRINITY_DN12955_c2_g1_i5::g.17882::m.17882	3	6,8	98,004	10,644	PF04065.14	Not3	278,9	2,50E-83	No_clan
TRINITY_DN12966_c1_g1::TRINITY_DN12966_c1_g1_i2::g.17932::m.17932	15	43,4	47,808	323,31	PF00330.19	Aconitase	131,7	3,40E-38	No_clan
TRINITY_DN12966_c3_g1::TRINITY_DN12966_c3_g1_i1::g.17946::m.17946	21	44,8	74,473	140,93	PF00330.19	Aconitase	431,8	3,20E-129	No_clan
TRINITY_DN12971_c4_g2::TRINITY_DN12971_c4_g2_i4::g.17979::m.17979	5	24,9	27,167	20,772	PF10584.8	Proteasome_A_N	50,9	7,70E-14	CL0052
TRINITY_DN12974_c0_g1::TRINITY_DN12974_c0_g1_i2::g.18074::m.18074	2	4,2	80,408	2,7909					
TRINITY_DN12983_c5_g1::TRINITY_DN12983_c5_g1_i4::g.18189::m.18189	3	7	44,862	2,8508	PF00004.28	AAA	150,7	2,60E-44	CL0023
TRINITY_DN12986_c2_g1::TRINITY_DN12986_c2_g1_i7::g.17676::m.17676	3	4,9	84,775	3,2727	PF05691.11	Raffinose_syn	1125,4	0	CL0058
TRINITY_DN12991_c0_g2::TRINITY_DN12991_c0_g2_i1::g.18234::m.18234	5	12,3	54,391	19,846	PF13432.5	TPR_16	18,6	0,0021	CL0020
TRINITY_DN12993_c1_g1::TRINITY_DN12993_c1_g1_i9::g.18389::m.18389	2	15,1	16,285	19,81	PF16845.4	SQAPI	76,8	1,20E-21	CL0121
TRINITY_DN12993_c1_g5::TRINITY_DN12993_c1_g5_i1::g.18384::m.18384	3	8,8	52,077	4,9583	PF14306.5	PUA_2	147	3,40E-43	CL0178
TRINITY_DN13004_c2_g2::TRINITY_DN13004_c2_g2_i3::g.18474::m.18474	2	9,1	31,416	19,453	PF16035.4	Chalcone_2	38,2	1,20E-09	CL0560

TRINITY_DN13006_c0_g1::TRINITY_DN13006_c0_g1_i3::g.18571::m.18571	1	12	15,06	2,4972	PF01248.25	Ribosomal_L7Ae	90,1	5,10E-26	CL0101
TRINITY_DN13008_c2_g1::TRINITY_DN13008_c2_g1_i1::g.18585::m.18585	2	12	32,715	2,1871					
TRINITY_DN13010_c2_g2::TRINITY_DN13010_c2_g2_i9::g.18708::m.18708	1	9,6	13,309	2,478	PF01105.23	EMP24_GP25L	99,1	2,60E-28	CL0521
TRINITY_DN13014_c6_g2::TRINITY_DN13014_c6_g2_i4::g.18867::m.18867	12	38,8	49,553	106,66	PF00091.24	Tubulin	226	4,30E-67	CL0566
TRINITY_DN13021_c1_g1::TRINITY_DN13021_c1_g1_i1::g.18775::m.18775	1	6,6	32,729	2,8942	PF13668.5	Ferritin_2	114,6	3,50E-33	CL0044
TRINITY_DN13021_c1_g2::TRINITY_DN13021_c1_g2_i3::g.18779::m.18779	6	29,2	32,729	73,577	PF13668.5	Ferritin_2	116	1,20E-33	CL0044
TRINITY_DN13024_c1_g2::TRINITY_DN13024_c1_g2_i1::g.18973::m.18973	3	29	14,829	323,31	PF01095.18	Pectinesterase	177,5	2,20E-52	CL0268
TRINITY_DN13025_c0_g1::TRINITY_DN13025_c0_g1_i1::g.18736::m.18736	2	4,9	51,087	3,0017	PF00899.20	ThiF	207	2,70E-61	CL0063
TRINITY_DN13032_c1_g1::TRINITY_DN13032_c1_g1_i5::g.18813::m.18813	1	4,6	31,631	2,7377					
TRINITY_DN13033_c2_g1::TRINITY_DN13033_c2_g1_i6::g.18937::m.18937	5	52,3	14,207	224,98	PF00235.18	Profilin	98,1	4,00E-28	CL0431
TRINITY_DN16368_c1_g2::TRINITY_DN16368_c1_g2_i3::g.66564::m.66564	2	25,7	12,592	4,8424	PF00179.25	UQ_con	149,1	5,40E-44	CL0208
TRINITY_DN13047_c0_g2::TRINITY_DN13047_c0_g2_i4::g.19117::m.19117	3	8,3	46,068	4,2219	PF02729.20	OTCace_N	156,1	5,90E-46	No_clan
TRINITY_DN13051_c9_g1::TRINITY_DN13051_c9_g1_i1::g.19838::m.19838	1	19,6	12,296	32,807					
TRINITY_DN13052_c1_g1::TRINITY_DN13052_c1_g1_i8::g.19267::m.19267	3	12,8	25,817	4,2988	PF00076.21	RRM_1	50,2	1,60E-13	CL0221
TRINITY_DN13066_c0_g1::TRINITY_DN13066_c0_g1_i8::g.19396::m.19396	6	36,1	23,084	13,505	PF00071.21	Ras	188,8	4,70E-56	CL0023
TRINITY_DN13067_c1_g1::TRINITY_DN13067_c1_g1_i2::g.19355::m.19355	6	44,1	16,332	323,31	PF00254.27	FKBP_C	117,9	1,70E-34	CL0487
TRINITY_DN13073_c0_g1::TRINITY_DN13073_c0_g1_i2::g.19364::m.19364	4	8,6	56,279	6,1217	PF07994.11	NAD_binding_5	470,3	3,10E-141	CL0063
TRINITY_DN13076_c2_g1::TRINITY_DN13076_c2_g1_i6::g.19526::m.19526	1	6,7	31,011	2,8232	PF01053.19	Cys_Met_Meta_PP	153,1	6,90E-45	CL0061
TRINITY_DN13077_c0_g1::TRINITY_DN13077_c0_g1_i9::g.19580::m.19580	2	12,2	26,452	4,0496					
TRINITY_DN13082_c0_g1::TRINITY_DN13082_c0_g1_i2::g.19429::m.19429	4	26,6	30,217	34,133	PF02893.19	GRAM	101,6	2,10E-29	CL0266
TRINITY_DN13083_c4_g1::TRINITY_DN13083_c4_g1_i1::g.19609::m.19609	2	12,8	25,459	3,9845	PF04073.14	tRNA_edit	33,8	2,70E-08	No_clan

TRINITY_DN13091_c0_g1::TRINITY_DN13091_c0_g1_i4::g.19648::m.19648	8	47,2	20,246	9,4964	PF00724.19	Oxidored_FMN	119,8	1,30E-34	CL0036
TRINITY_DN13091_c0_g1::TRINITY_DN13091_c0_g1_i8::g.19651::m.19651	8	49,4	20,319	2,1814	PF00724.19	Oxidored_FMN	116,3	1,50E-33	CL0036
TRINITY_DN13091_c0_g2::TRINITY_DN13091_c0_g2_i2::g.19654::m.19654	3	19,6	16,744	2,6788	PF00724.19	Oxidored_FMN	153,2	9,70E-45	CL0036
TRINITY_DN13098_c2_g1::TRINITY_DN13098_c2_g1_i5::g.19700::m.19700	3	11,4	50,657	5,7658					
TRINITY_DN13102_c0_g1::TRINITY_DN13102_c0_g1_i5::g.19880::m.19880	2	5,2	58,61	5,1916	PF13855.5	LRR_8	29,4	4,50E-07	CL0022
TRINITY_DN13107_c5_g1::TRINITY_DN13107_c5_g1_i1::g.19946::m.19946	3	13	26,858	4,9161	PF01277.16	Oleosin	146,3	2,60E-43	No_clan
TRINITY_DN13110_c0_g1::TRINITY_DN13110_c0_g1_i3::g.20012::m.20012	1	12,7	17,65	3,3023	PF08784.10	RPA_C	70,8	1,20E-19	CL0123
TRINITY_DN13113_c1_g1::TRINITY_DN13113_c1_g1_i4::g.20046::m.20046	10	22,1	64,014	21,959	PF00224.20	PK	309,1	2,90E-92	CL0151
TRINITY_DN13121_c2_g1::TRINITY_DN13121_c2_g1_i1::g.20130::m.20130	3	10	39,501	7,0109	PF08606.10	Prp19	109,7	4,80E-32	No_clan
TRINITY_DN13122_c2_g4::TRINITY_DN13122_c2_g4_i4::g.20179::m.20179	4	13,5	29,776	8,9129	PF02790.14	COX2_TM	115,9	6,30E-34	No_clan
TRINITY_DN13122_c2_g7::TRINITY_DN13122_c2_g7_i5::g.20188::m.20188	2	17,6	13,946	4,0759					
TRINITY_DN13123_c3_g2::TRINITY_DN13123_c3_g2_i7::g.20202::m.20202	6	33,6	26,498	12,225	PF13419.5	HAD_2	81,5	7,10E-23	CL0137
TRINITY_DN13126_c1_g2::TRINITY_DN13126_c1_g2_i1::g.20156::m.20156	7	57,3	14,14	3,6846	PF00071.21	Ras	144,4	2,00E-42	CL0023
TRINITY_DN13126_c1_g4::TRINITY_DN13126_c1_g4_i1::g.20159::m.20159	7	61,7	13,686	146,19	PF00071.21	Ras	141,5	1,70E-41	CL0023
TRINITY_DN13127_c0_g1::TRINITY_DN13127_c0_g1_i1::g.20146::m.20146	6	22	41,405	14,755	PF16363.4	GDP_Man_Dehyd	456,5	5,40E-137	CL0063
TRINITY_DN13128_c0_g1::TRINITY_DN13128_c0_g1_i1::g.20153::m.20153	7	26,6	54,903	14,576	PF00270.28	DEAD	119,1	1,60E-34	CL0023
TRINITY_DN13129_c8_g5::TRINITY_DN13129_c8_g5_i1::g.20297::m.20297	5	12,3	65,993	10,993	PF07244.14	POTRA	22,8	9,80E-05	CL0191
TRINITY_DN13133_c2_g1::TRINITY_DN13133_c2_g1_i2::g.20342::m.20342	8	26,8	44,546	77,227	PF08669.10	GCV_T_C	32,6	6,60E-08	No_clan
TRINITY_DN13140_c0_g1::TRINITY_DN13140_c0_g1_i10::g.20388::m.20388	7	39,1	29,639	20,285	PF00132.23	Hexapep	22,9	4,60E-05	CL0536
TRINITY_DN13140_c0_g3::TRINITY_DN13140_c0_g3_i1::g.20389::m.20389	6	35,5	29,687	23,894	PF00132.23	Hexapep	18,5	0,0011	CL0536
TRINITY_DN13144_c0_g1::TRINITY_DN13144_c0_g1_i6::g.19931::m.19931	2	17,4	16,771	4,5645	PF09585.9	Lin0512_fam	136,5	3,50E-40	No_clan

TRINITY_DN13145_c0_g1::TRINITY_DN13145_c0_g1_i9::g.20440::m.20440	10	31,4	47,443	70,846	PF00004.28	AAA	144,7	1,90E-42	CL0023
TRINITY_DN13146_c0_g1::TRINITY_DN13146_c0_g1_i3::g.20394::m.20394	1	17,5	17,146	8,3544					
TRINITY_DN13149_c0_g1::TRINITY_DN13149_c0_g1_i7::g.20402::m.20402	2	6,4	44,687	4,0189	PF13793.5	Pribosyltran_N	25,7	8,10E-06	CL0533
TRINITY_DN13150_c1_g1::TRINITY_DN13150_c1_g1_i6::g.20550::m.20550	2	11	22,802	3,8794	PF00076.21	RRM_1	78,1	3,10E-22	CL0221
TRINITY_DN13153_c0_g3::TRINITY_DN13153_c0_g3_i1::g.20486::m.20486	2	21,8	14,168	4,1781	PF01373.16	Glyco_hydro_14	138,3	3,00E-40	CL0058
TRINITY_DN13159_c0_g1::TRINITY_DN13159_c0_g1_i1::g.20565::m.20565	5	20,9	19,76	5,2098	PF00160.20	Pro_isomerase	159,8	5,80E-47	CL0475
TRINITY_DN13161_c0_g1::TRINITY_DN13161_c0_g1_i3::g.20601::m.20601	1	13,7	21,663	4,5329	PF03330.17	DPBB_1	84,3	5,00E-24	CL0199
TRINITY_DN13161_c0_g2::TRINITY_DN13161_c0_g2_i6::g.20596::m.20596	3	23,4	18,896	3,8723	PF04573.11	SPC22	177	1,90E-52	No_clan
TRINITY_DN13164_c0_g2::TRINITY_DN13164_c0_g2_i1::g.20739::m.20739	14	32,1	55,764	94,297	PF00180.19	Iso_dh	286,8	2,20E-85	CL0270
TRINITY_DN13164_c0_g4::TRINITY_DN13164_c0_g4_i1::g.20741::m.20741	12	26,9	47,002	46,951	PF00180.19	Iso_dh	309,1	3,50E-92	CL0270
TRINITY_DN13171_c0_g1::TRINITY_DN13171_c0_g1_i3::g.20617::m.20617	4	32,2	15,904	23,834	PF01090.18	Ribosomal_S19e	193,1	1,40E-57	CL0123
TRINITY_DN13179_c1_g1::TRINITY_DN13179_c1_g1_i6::g.20799::m.20799	2	16,1	19,973	10,862	PF13499.5	EF-hand_7	58,9	4,70E-16	CL0220
TRINITY_DN13179_c1_g3::TRINITY_DN13179_c1_g3_i2::g.20801::m.20801	4	42,4	13,198	13,797					
TRINITY_DN13180_c0_g1::TRINITY_DN13180_c0_g1_i3::g.20757::m.20757	2	7,1	43,864	10,462	PF01676.17	Metalloenzyme	88,9	2,90E-25	CL0088
TRINITY_DN13193_c0_g2::TRINITY_DN13193_c0_g2_i7::g.20882::m.20882	2	16,9	28,534	4,406	PF00684.18	DnaJ_CXXCXGXG	44,4	1,50E-11	No_clan
TRINITY_DN13194_c3_g1::TRINITY_DN13194_c3_g1_i1::g.20967::m.20967	6	36,9	17,49	98,096					
TRINITY_DN13194_c4_g1::TRINITY_DN13194_c4_g1_i4::g.20971::m.20971	2	23,9	15,402	5,1649	PF00886.18	Ribosomal_S16	89,2	1,20E-25	No_clan
TRINITY_DN13194_c5_g1::TRINITY_DN13194_c5_g1_i1::g.20972::m.20972	3	11,4	34,32	77,767	PF13855.5	LRR_8	33,7	2,10E-08	CL0022
TRINITY_DN13198_c0_g2::TRINITY_DN13198_c0_g2_i2::g.20890::m.20890	3	21,5	21,962	5,0934	PF02365.14	NAM	91,3	7,60E-26	No_clan
TRINITY_DN13200_c1_g3::TRINITY_DN13200_c1_g3_i1::g.20941::m.20941	2	14	18,25	37,488	PF00160.20	Pro_isomerase	178,6	9,50E-53	CL0475
TRINITY_DN13201_c1_g1::TRINITY_DN13201_c1_g1_i6::g.20932::m.20932	3	7,9	38,594	37,523	PF00226.30	DnaJ	90,8	4,00E-26	CL0392
TRINITY_DN13203_c0_g1::TRINITY_DN13203_c0_g1_i1::g.21059::m.21059	3	26,8	12,328	132,34	PF00085.19	Thioredoxin	110,7	2,70E-32	CL0172

TRINITY_DN13204_c1_g1::TRINITY_DN13204_c1_g1_i4::g.21099::m.21099	5	43	12,852	104,03	PF05922.15	Inhibitor_I9	48,6	9,20E-13	CL0570
TRINITY_DN13205_c0_g1::TRINITY_DN13205_c0_g1_i3::g.21053::m.21053	1	9,6	13,293	2,7919	PF07859.12	Abhydrolase_3	53,6	2,50E-14	CL0028
TRINITY_DN13211_c0_g1::TRINITY_DN13211_c0_g1_i3::g.21098::m.21098	9	23,1	44,561	3,2584	PF00297.21	Ribosomal_L3	646,3	1,20E-194	CL0575
TRINITY_DN13211_c0_g2::TRINITY_DN13211_c0_g2_i3::g.21096::m.21096	10	27,5	44,521	18,883	PF00297.21	Ribosomal_L3	650,2	7,80E-196	CL0575
TRINITY_DN13215_c0_g6::TRINITY_DN13215_c0_g6_i3::g.21426::m.21426	3	27,3	14,852	17,535	PF08597.9	eIF3_subunit	105,9	2,80E-30	No_clan
TRINITY_DN13215_c0_g4::TRINITY_DN13215_c0_g4_i6::g.21439::m.21439	2	10,9	25,1	15,412	PF08597.9	eIF3_subunit	176,3	8,90E-52	No_clan
TRINITY_DN13217_c3_g3::TRINITY_DN13217_c3_g3_i1::g.21250::m.21250	1	7,1	30,592	5,5814					
TRINITY_DN13221_c2_g1::TRINITY_DN13221_c2_g1_i1::g.21206::m.21206	10	50,7	29,335	49,182	PF01459.21	Porin_3	218,5	1,00E-64	CL0193
TRINITY_DN13221_c3_g1::TRINITY_DN13221_c3_g1_i2::g.21212::m.21212	3	16	26,64	4,0321	PF00248.20	Aldo_ket_red	176,7	5,10E-52	No_clan
TRINITY_DN13227_c0_g1::TRINITY_DN13227_c0_g1_i8::g.21288::m.21288	19	40,6	68,364	121,7	PF01704.17	UDPGP	55,6	3,10E-15	CL0110
TRINITY_DN13227_c0_g6::TRINITY_DN13227_c0_g6_i1::g.21293::m.21293	1	10,4	12,126	27,306	PF01187.17	MIF	91,3	4,40E-26	CL0082
TRINITY_DN13228_c1_g1::TRINITY_DN13228_c1_g1_i1::g.21382::m.21382	4	27,3	20,405	16,007	PF00085.19	Thioredoxin	86,6	8,40E-25	CL0172
TRINITY_DN13233_c0_g4::TRINITY_DN13233_c0_g4_i3::g.21366::m.21366	2	6,4	67,108	2,1051	PF03765.14	CRAL_TRIO_N	37,9	1,40E-09	No_clan
TRINITY_DN13234_c0_g1::TRINITY_DN13234_c0_g1_i7::g.21346::m.21346	7	26,4	36,657	26,938	PF14559.5	TPR_19	27,3	3,60E-06	CL0020
TRINITY_DN13241_c2_g1::TRINITY_DN13241_c2_g1_i4::g.21412::m.21412	1	17,2	16,71	2,3037	PF03870.14	RNA_pol_Rpb8	161,5	1,20E-47	CL0021
TRINITY_DN17556_c3_g1::TRINITY_DN17556_c3_g1_i1::g.85912::m.85912	1	12,9	11,698	2,3756	PF04116.12	FA_hydroxylase	52,5	5,70E-14	No_clan
TRINITY_DN13244_c2_g1::TRINITY_DN13244_c2_g1_i6::g.21528::m.21528	6	52,3	17,192	52,56	PF00179.25	UQ_con	165,4	5,20E-49	CL0208
TRINITY_DN13244_c3_g1::TRINITY_DN13244_c3_g1_i1::g.21540::m.21540	12	40,8	36,34	287,19	PF00056.22	Ldh_1_N	161,4	1,20E-47	CL0063
TRINITY_DN13246_c1_g2::TRINITY_DN13246_c1_g2_i1::g.21483::m.21483	1	2,9	45,227	1,8518					
TRINITY_DN13249_c0_g1::TRINITY_DN13249_c0_g1_i1::g.21073::m.21073	1	6,2	29,042	2,5634	PF13561.5	adh_short_C2	218,5	8,50E-65	CL0063
TRINITY_DN13259_c0_g1::TRINITY_DN13259_c0_g1_i1::g.21585::m.21585	10	28,7	42,803	19,767	PF03223.14	V-ATPase_C	422,7	1,40E-126	No_clan

TRINITY_DN13260_c0_g1::TRINITY_DN13260_c0_g1_i2::g.21630::m.21630	2	16,3	14,255	3,3179					
TRINITY_DN13260_c0_g2::TRINITY_DN13260_c0_g2_i1::g.21634::m.21634	2	16,3	21,546	4,998					
TRINITY_DN13264_c3_g1::TRINITY_DN13264_c3_g1_i4::g.21666::m.21666	7	24,6	48,994	25,806	PF01546.27	Peptidase_M20	120,1	9,10E-35	CL0035
TRINITY_DN13265_c1_g1::TRINITY_DN13265_c1_g1_i6::g.21679::m.21679	10	47,4	28,914	119,88	PF00244.19	14.03.2003	352,7	6,40E-106	No_clan
TRINITY_DN13265_c1_g2::TRINITY_DN13265_c1_g2_i3::g.21681::m.21681	3	14,3	29,094	2,2584	PF00244.19	14.03.2003	343,8	3,40E-103	No_clan
TRINITY_DN13268_c1_g1::TRINITY_DN13268_c1_g1_i7::g.21886::m.21886	14	32,1	55,03	38,531	PF00764.18	Arginosuc_synth	523,2	4,60E-157	CL0039
TRINITY_DN13275_c3_g1::TRINITY_DN13275_c3_g1_i7::g.21820::m.21820	1	5,3	25,985	1,9508	PF00314.16	Thaumatin	260,2	1,40E-77	CL0293
TRINITY_DN13280_c0_g2::TRINITY_DN13280_c0_g2_i2::g.21976::m.21976	8	27,5	45,011	17,027	PF00462.23	Glutaredoxin	60,7	1,10E-16	CL0172
TRINITY_DN13283_c0_g1::TRINITY_DN13283_c0_g1_i3::g.21813::m.21813	11	35	44,879	66,435	PF00573.21	Ribosomal_L4	134,3	3,70E-39	No_clan
TRINITY_DN13284_c0_g1::TRINITY_DN13284_c0_g1_i3::g.21957::m.21957	3	8,4	48,398	68,295	PF00076.21	RRM_1	44,9	6,90E-12	CL0221
TRINITY_DN13284_c1_g1::TRINITY_DN13284_c1_g1_i7::g.21970::m.21970	8	43,5	21,168	102,04	PF12481.7	DUF3700	309,1	1,40E-92	CL0052
TRINITY_DN13288_c0_g1::TRINITY_DN13288_c0_g1_i6::g.22068::m.22068	3	10,6	36,997	4,0555	PF00332.17	Glyco_hydro_17	203,4	5,00E-60	CL0058
TRINITY_DN13288_c0_g3::TRINITY_DN13288_c0_g3_i3::g.22072::m.22072	6	13,2	55,792	48,756	PF00332.17	Glyco_hydro_17	329,1	2,80E-98	CL0058
TRINITY_DN13289_c1_g1::TRINITY_DN13289_c1_g1_i2::g.22086::m.22086	3	8,4	50,979	4,5878	PF07738.12	Sad1_UNC	136	7,00E-40	CL0202
TRINITY_DN13289_c1_g2::TRINITY_DN13289_c1_g2_i4::g.22093::m.22093	1	15,1	12,499	2,471					
TRINITY_DN13291_c0_g1::TRINITY_DN13291_c0_g1_i4::g.22017::m.22017	6	39	16,75	163,33	PF01597.18	GCV_H	164,4	8,70E-49	CL0105
TRINITY_DN13292_c1_g6::TRINITY_DN13292_c1_g6_i2::g.22041::m.22041	3	30,2	14,542	4,6839					
TRINITY_DN13300_c0_g1::TRINITY_DN13300_c0_g1_i5::g.22083::m.22083	2	5,5	42,336	4,6058	PF03917.16	GSH_synth_ATP	196,6	5,00E-58	CL0483
TRINITY_DN13302_c0_g2::TRINITY_DN13302_c0_g2_i1::g.22438::m.22438	6	26,1	37,113	41,225	PF08511.10	COQ9	101,9	1,10E-29	No_clan
TRINITY_DN13316_c0_g1::TRINITY_DN13316_c0_g1_i4::g.22236::m.22236	6	9,7	87,595	10,186	PF02922.17	CBM_48	43,7	2,40E-11	CL0369
TRINITY_DN13325_c1_g1::TRINITY_DN13325_c1_g1_i1::g.22310::m.22310	2	7,2	36,324	4,7898					

TRINITY_DN13334_c3_g1::TRINITY_DN13334_c3_g1_i2::g.22908::m.22908	2	15,7	14,482	2,9978	PF00082.21	Peptidase_S8	47	1,80E-12	No_clan
TRINITY_DN13334_c3_g4::TRINITY_DN13334_c3_g4_i1::g.22910::m.22910	3	18,5	20,541	72,996	PF00082.21	Peptidase_S8	50,3	1,80E-13	No_clan
TRINITY_DN13342_c2_g1::TRINITY_DN13342_c2_g1_i2::g.22558::m.22558	4	17,5	29,56	6,0231	PF00153.26	Mito_carr	66	2,00E-18	No_clan
TRINITY_DN13342_c3_g1::TRINITY_DN13342_c3_g1_i3::g.22570::m.22570	2	15	15,696	5,0696					
TRINITY_DN13342_c3_g2::TRINITY_DN13342_c3_g2_i4::g.22568::m.22568	10	19,4	69,641	19,582	PF01031.19	Dynamin_M	80,9	8,30E-23	No_clan
TRINITY_DN13348_c2_g1::TRINITY_DN13348_c2_g1_i3::g.22605::m.22605	4	30,7	16,228	5,2791	PF00411.18	Ribosomal_S11	158,7	5,20E-47	CL0267
TRINITY_DN13348_c4_g1::TRINITY_DN13348_c4_g1_i6::g.22618::m.22618	3	12,5	29,736	4,6566	PF05739.18	SNARE	44,4	1,10E-11	No_clan
TRINITY_DN13349_c1_g1::TRINITY_DN13349_c1_g1_i7::g.22584::m.22584	4	23,4	22,786	12,563	PF00571.27	CBS	31,3	1,90E-07	No_clan
TRINITY_DN13350_c3_g1::TRINITY_DN13350_c3_g1_i5::g.22631::m.22631	5	19,7	34,699	39,309	PF00450.21	Peptidase_S10	283,8	2,80E-84	CL0028
TRINITY_DN13374_c2_g1::TRINITY_DN13374_c2_g1_i4::g.22819::m.22819	3	7,2	59,764	3,8481	PF00109.25	ketoacyl-synt	199,8	5,00E-59	CL0046
TRINITY_DN13376_c2_g1::TRINITY_DN13376_c2_g1_i2::g.22983::m.22983	6	48,5	18,821	323,31	PF01625.20	PMSR	199,2	3,60E-59	No_clan
TRINITY_DN13376_c2_g2::TRINITY_DN13376_c2_g2_i3::g.22986::m.22986	8	49,4	34,409	323,31	PF00112.22	Peptidase_C1	239,5	3,90E-71	CL0125
TRINITY_DN13377_c3_g1::TRINITY_DN13377_c3_g1_i6::g.23084::m.23084	1	7	17,885	2,3989	PF06113.11	BRE	53,2	1,80E-14	No_clan
TRINITY_DN13377_c3_g2::TRINITY_DN13377_c3_g2_i9::g.23085::m.23085	8	32,2	25,51	323,31	PF02798.19	GST_N	61,7	6,00E-17	CL0172
TRINITY_DN13379_c2_g1::TRINITY_DN13379_c2_g1_i3::g.22962::m.22962	1	14,1	11,11	2,1576	PF00153.26	Mito_carr	43,8	1,70E-11	No_clan
TRINITY_DN13381_c2_g1::TRINITY_DN13381_c2_g1_i4::g.23007::m.23007	5	30,8	23,326	6,2532	PF00071.21	Ras	204,4	7,30E-61	CL0023
TRINITY_DN13381_c2_g2::TRINITY_DN13381_c2_g2_i20::g.23020::m.23020	6	40	17,999	37,813	PF00071.21	Ras	156,5	4,10E-46	CL0023
TRINITY_DN13383_c0_g1::TRINITY_DN13383_c0_g1_i9::g.23043::m.23043	1	15,7	28,298	3,1182	PF14523.5	Syntaxin_2	80,4	9,60E-23	CL0445
TRINITY_DN13383_c1_g4::TRINITY_DN13383_c1_g4_i2::g.23048::m.23048	6	17,6	47,07	3,9071	PF00464.18	SHMT	648,8	2,20E-195	CL0061
TRINITY_DN13389_c0_g2::TRINITY_DN13389_c0_g2_i2::g.23122::m.23122	7	33,2	31,598	112,94	PF00291.24	PALP	225,4	9,60E-67	No_clan
TRINITY_DN13397_c1_g1::TRINITY_DN13397_c1_g1_i6::g.22118::m.22118	1	9,7	16,012	2,1453	PF01208.16	URO-D	35,6	5,30E-09	CL0160

TRINITY_DN13398_c7_g1::TRINITY_DN13398_c7_g1_i2::g.23298::m.23298	2	6,7	45,299	4,6466	PF14580.5	LRR_9	51	1,10E-13	CL0022
TRINITY_DN13404_c2_g1::TRINITY_DN13404_c2_g1_i2::g.23444::m.23444	1	13,8	12,282	2,2507					
TRINITY_DN13408_c0_g1::TRINITY_DN13408_c0_g1_i4::g.23389::m.23389	2	13,9	28,495	3,4217	PF00702.25	Hydrolase	52,8	5,90E-14	CL0137
TRINITY_DN13409_c1_g1::TRINITY_DN13409_c1_g1_i8::g.23419::m.23419	18	58,4	38,181	57,604	PF00044.23	Gp_dh_N	125	1,20E-36	CL0063
TRINITY_DN13415_c1_g2::TRINITY_DN13415_c1_g2_i6::g.23608::m.23608	3	11,3	40,384	6,6744	PF05057.13	DUF676	216,3	3,20E-64	CL0028
TRINITY_DN13415_c1_g3::TRINITY_DN13415_c1_g3_i1::g.23602::m.23602	14	26,4	74,54	2,9614	PF00311.16	PEPcase	190,8	3,30E-56	CL0151
TRINITY_DN13415_c1_g3::TRINITY_DN13415_c1_g3_i4::g.23607::m.23607	19	20	124,36	38,976	PF00311.16	PEPcase	189,5	8,10E-56	CL0151
TRINITY_DN13419_c2_g1::TRINITY_DN13419_c2_g1_i6::g.23702::m.23702	9	23,5	53,073	26,325	PF00365.19	PFK	207,6	2,10E-61	CL0240
TRINITY_DN13420_c0_g1::TRINITY_DN13420_c0_g1_i1::g.23499::m.23499	1	6,4	22,652	2,6908	PF03357.20	Snf7	44,1	1,50E-11	CL0235
TRINITY_DN13421_c0_g4::TRINITY_DN13421_c0_g4_i1::g.23529::m.23529	2	2,3	112,23	2,5747	PF05664.10	DUF810	960,2	6,60E-289	No_clan
TRINITY_DN13422_c4_g1::TRINITY_DN13422_c4_g1_i9::g.23675::m.23675	6	31,3	27,313	85,392	PF10584.8	Proteasome_A_N	49,8	1,80E-13	CL0052
TRINITY_DN13423_c2_g1::TRINITY_DN13423_c2_g1_i2::g.23680::m.23680	1	11,8	15,303	2,9374					
TRINITY_DN13425_c1_g1::TRINITY_DN13425_c1_g1_i4::g.23719::m.23719	3	20,9	31,04	8,4137	PF00970.23	FAD_binding_6	112,3	1,10E-32	CL0076
TRINITY_DN13425_c1_g3::TRINITY_DN13425_c1_g3_i2::g.23712::m.23712	3	13,7	31,166	8,6422	PF00970.23	FAD_binding_6	107,3	3,80E-31	CL0076
TRINITY_DN13427_c0_g2::TRINITY_DN13427_c0_g2_i5::g.23653::m.23653	3	25,8	15,077	6,2863	PF01283.18	Ribosomal_S26e	181,9	3,10E-54	No_clan
TRINITY_DN13427_c0_g3::TRINITY_DN13427_c0_g3_i1::g.23641::m.23641	3	27,5	14,894	3,9223	PF01283.18	Ribosomal_S26e	182,1	2,70E-54	No_clan
TRINITY_DN13431_c11_g1::TRINITY_DN13431_c11_g1_i1::g.23860::m.23860	9	28,6	46,701	25,166	PF01293.19	PEPCK_ATP	31,5	6,90E-08	CL0374
TRINITY_DN13432_c1_g1::TRINITY_DN13432_c1_g1_i19::g.23847::m.23847	7	30,1	35,151	16,092	PF00481.20	PP2C	208,9	9,00E-62	CL0238
TRINITY_DN13433_c0_g1::TRINITY_DN13433_c0_g1_i4::g.23725::m.23725	7	15,6	62,581	26,099	PF05450.14	Nicastrin	33	3,90E-08	CL0035
TRINITY_DN13436_c3_g1::TRINITY_DN13436_c3_g1_i7::g.23925::m.23925	7	31,6	41,543	177,98	PF00108.22	Thiolase_N	307,3	7,10E-92	CL0046
TRINITY_DN13436_c3_g2::TRINITY_DN13436_c3_g2_i1::g.23914::m.23914	6	26	42,028	12,458	PF00108.22	Thiolase_N	300,9	6,30E-90	CL0046

TRINITY_DN13437_c2_g2::TRINITY_DN13437_c2_g2_i2::g.23355::m.23355	2	7,3	60,561	13,833	PF03398.13	Ist1	44,1	1,80E-11	No_clan
TRINITY_DN13437_c3_g1::TRINITY_DN13437_c3_g1_i7::g.23377::m.23377	2	5,3	60,297	6,0019	PF02990.15	EMP70	532,3	1,10E-159	No_clan
TRINITY_DN13437_c3_g3::TRINITY_DN13437_c3_g3_i4::g.23371::m.23371	3	7,7	64,106	12,668	PF02990.15	EMP70	563,4	4,10E-169	No_clan
TRINITY_DN13446_c0_g3::TRINITY_DN13446_c0_g3_i1::g.23949::m.23949	1	5,3	39,033	3,1786	PF16884.4	ADH_N_2	65,4	3,50E-18	CL0296
TRINITY_DN13456_c0_g1::TRINITY_DN13456_c0_g1_i3::g.24091::m.24091	2	4,3	67,001	3,2031					
TRINITY_DN13460_c3_g2::TRINITY_DN13460_c3_g2_i3::g.24327::m.24327	2	11,4	26,759	7,4875	PF13537.5	GATase_7	137,1	2,40E-40	CL0052
TRINITY_DN13463_c1_g1::TRINITY_DN13463_c1_g1_i3::g.24177::m.24177	5	29,6	27,096	12,761	PF02900.17	LigB	158,6	1,50E-46	CL0283
TRINITY_DN13465_c1_g2::TRINITY_DN13465_c1_g2_i1::g.24163::m.24163	9	40	28,506	37,105	PF00330.19	Aconitase	221,4	2,10E-65	No_clan
TRINITY_DN13465_c2_g1::TRINITY_DN13465_c2_g1_i6::g.24168::m.24168	3	22,3	19,46	6,099	PF02881.18	SRP54_N	61,4	6,60E-17	No_clan
TRINITY_DN13466_c1_g1::TRINITY_DN13466_c1_g1_i2::g.24484::m.24484	4	17,5	23,457	8,8485	PF00572.17	Ribosomal_L13	34,7	1,70E-08	No_clan
TRINITY_DN13471_c1_g1::TRINITY_DN13471_c1_g1_i4::g.24277::m.24277	1	10,6	14,179	2,1678					
TRINITY_DN13477_c2_g3::TRINITY_DN13477_c2_g3_i1::g.24414::m.24414	4	22,3	28,404	9,6646	PF00705.17	PCNA_N	181,1	5,90E-54	CL0060
TRINITY_DN13480_c0_g1::TRINITY_DN13480_c0_g1_i3::g.24330::m.24330	1	3,3	73,354	2,1063	PF02142.21	MGS	73,4	1,20E-20	No_clan
TRINITY_DN13485_c2_g2::TRINITY_DN13485_c2_g2_i2::g.24426::m.24426	5	24,4	27,095	24,813	PF01088.20	Peptidase_C12	202,2	7,60E-60	CL0125
TRINITY_DN13485_c2_g3::TRINITY_DN13485_c2_g3_i2::g.24428::m.24428	6	50,8	22,158	54,873	PF00390.18	malic	108,4	3,30E-31	CL0603
TRINITY_DN13487_c0_g1::TRINITY_DN13487_c0_g1_i1::g.24417::m.24417	2	3,7	61,414	2,244	PF03062.18	MBOAT	91,8	5,10E-26	CL0517
TRINITY_DN13494_c0_g2::TRINITY_DN13494_c0_g2_i2::g.24524::m.24524	4	19,3	23,08	1,9971	PF00163.18	Ribosomal_S4	32,2	1,40E-07	CL0492
TRINITY_DN13494_c0_g3::TRINITY_DN13494_c0_g3_i1::g.24527::m.24527	4	19,3	23,12	8,7631	PF00163.18	Ribosomal_S4	30,1	6,30E-07	CL0492
TRINITY_DN13503_c0_g1::TRINITY_DN13503_c0_g1_i7::g.24647::m.24647	3	14	24,583	6,7438	PF13450.5	NAD_binding_8	60	1,80E-16	CL0063
TRINITY_DN13512_c0_g1::TRINITY_DN13512_c0_g1_i2::g.24707::m.24707	1	10,6	11,632	5,0664	PF04450.11	BSP	63,1	2,80E-17	CL0126
TRINITY_DN13512_c0_g2::TRINITY_DN13512_c0_g2_i1::g.24706::m.24706	2	18,2	12,58	6,3502	PF04450.11	BSP	167,6	2,70E-49	CL0126

TRINITY_DN13521_c0_g1::TRINITY_DN13521_c0_g1_i1::g.24833::m.24833	1	23,5	10,903	4,7193	PF00198.22	2-oxoacid_dh	112,9	1,40E-32	CL0149
TRINITY_DN13521_c0_g4::TRINITY_DN13521_c0_g4_i1::g.24842::m.24842	7	25,3	40,429	27,184	PF00364.21	Biotin_lipoyl	60,1	1,30E-16	CL0105
TRINITY_DN13523_c0_g1::TRINITY_DN13523_c0_g1_i7::g.24832::m.24832	1	11,5	19,75	3,4226	PF03358.14	FMN_red	123,9	4,30E-36	CL0042
TRINITY_DN13524_c0_g1::TRINITY_DN13524_c0_g1_i8::g.24870::m.24870	1	20	14,524	2,2113	PF00917.25	MATH	62,8	2,70E-17	CL0389
TRINITY_DN13527_c0_g1::TRINITY_DN13527_c0_g1_i14::g.25011::m.25011	4	8,7	62,672	6,3453	PF00888.21	Cullin	569,6	8,30E-171	No_clan
TRINITY_DN13531_c1_g1::TRINITY_DN13531_c1_g1_i7::g.25242::m.25242	17	21,8	112,66	37,44	PF07765.11	KIP1	112,3	8,30E-33	No_clan
TRINITY_DN13535_c5_g1::TRINITY_DN13535_c5_g1_i1::g.25172::m.25172	4	17	24,957	27,216	PF02987.15	LEA_4	30,2	3,20E-07	No_clan
TRINITY_DN13537_c0_g1::TRINITY_DN13537_c0_g1_i2::g.25155::m.25155	2	15,6	18,834	4,3577					
TRINITY_DN13542_c0_g1::TRINITY_DN13542_c0_g1_i7::g.24740::m.24740	2	8,4	35,498	3,8882	PF01088.20	Peptidase_C12	180	4,70E-53	CL0125
TRINITY_DN13546_c0_g1::TRINITY_DN13546_c0_g1_i3::g.25193::m.25193	7	13,4	71,044	12,123	PF03141.15	Methyltransf_29	766,6	9,90E-231	CL0063
TRINITY_DN13561_c3_g1::TRINITY_DN13561_c3_g1_i11::g.25972::m.25972	3	10,1	54,185	5,1195	PF00282.18	Pyridoxal_deC	411,1	3,20E-123	CL0061
TRINITY_DN13563_c1_g1::TRINITY_DN13563_c1_g1_i8::g.25419::m.25419	25	27,4	136,62	90,177	PF00400.31	WD40	23,6	6,10E-05	CL0186
TRINITY_DN13564_c1_g1::TRINITY_DN13564_c1_g1_i6::g.26053::m.26053	3	31,4	15,063	104,06	PF00173.27	Cyt-b5	90,5	5,10E-26	No_clan
TRINITY_DN13566_c3_g2::TRINITY_DN13566_c3_g2_i6::g.25511::m.25511	3	14,2	38,718	11,653					
TRINITY_DN13569_c0_g2::TRINITY_DN13569_c0_g2_i1::g.25677::m.25677	2	8,4	33,371	7,0275	PF00005.26	ABC_tran	48,8	8,80E-13	CL0023
TRINITY_DN13571_c3_g1::TRINITY_DN13571_c3_g1_i9::g.25607::m.25607	4	14,8	39,055	12,933	PF00270.28	DEAD	120,5	6,10E-35	CL0023
TRINITY_DN13573_c3_g3::TRINITY_DN13573_c3_g3_i2::g.25665::m.25665	2	13,6	27,657	3,059	PF10058.8	zinc_ribbon_10	73,3	8,90E-21	CL0167
TRINITY_DN13585_c0_g1::TRINITY_DN13585_c0_g1_i3::g.25706::m.25706	1	6,7	27,626	2,2006					
TRINITY_DN13587_c1_g3::TRINITY_DN13587_c1_g3_i8::g.25768::m.25768	3	12,5	33,437	3,2646	PF00106.24	adh_short	97	9,00E-28	CL0063
TRINITY_DN13588_c3_g5::TRINITY_DN13588_c3_g5_i3::g.25866::m.25866	16	71,2	28,476	295,53	PF03214.12	RGP	427,8	2,80E-128	CL0110

TRINITY_DN13592_c0_g2::TRINITY_DN13592_c0_g2_i5::g.25790::m.25790	6	15,2	43,886	143,59	PF00790.18	VHS	90,1	1,00E-25	CL0009
TRINITY_DN13594_c1_g2::TRINITY_DN13594_c1_g2_i6::g.26004::m.26004	5	44,8	13,453	14,363	PF00462.23	Glutaredoxin	78,8	2,40E-22	CL0172
TRINITY_DN13599_c0_g2::TRINITY_DN13599_c0_g2_i3::g.24684::m.24684	3	15,7	24,584	65,834	PF00687.20	Ribosomal_L1	145,5	1,50E-42	No_clan
TRINITY_DN13600_c1_g7::TRINITY_DN13600_c1_g7_i6::g.25108::m.25108	6	25,2	26,982	16,913	PF03647.12	Tmemb_14	62,2	5,70E-17	No_clan
TRINITY_DN13605_c0_g1::TRINITY_DN13605_c0_g1_i3::g.26153::m.26153	1	4,9	27,236	2,7929	PF03151.15	TPT	72,9	2,50E-20	CL0184
TRINITY_DN13606_c2_g2::TRINITY_DN13606_c2_g2_i1::g.26262::m.26262	18	51,9	52,92	272,72	PF03721.13	UDPG_MGDP_dh_N	225,5	3,60E-67	CL0063
TRINITY_DN13606_c2_g2::TRINITY_DN13606_c2_g2_i2::g.26272::m.26272	17	52,2	52,85	79,583	PF03721.13	UDPG_MGDP_dh_N	228	6,30E-68	CL0063
TRINITY_DN13606_c2_g3::TRINITY_DN13606_c2_g3_i2::g.26267::m.26267	4	5,4	89,564	6,1995	PF04091.11	Sec15	257,5	1,80E-76	CL0295
TRINITY_DN13608_c0_g1::TRINITY_DN13608_c0_g1_i3::g.26161::m.26161	2	6,9	41,429	3,9273					
TRINITY_DN13610_c2_g1::TRINITY_DN13610_c2_g1_i1::g.26215::m.26215	1	3,8	48,884	2,5118	PF03151.15	TPT	379	1,40E-113	CL0184
TRINITY_DN13614_c0_g1::TRINITY_DN13614_c0_g1_i2::g.26309::m.26309	3	16,5	32,455	5,0715	PF03981.11	Ubiq_cyt_C_chap	116	1,30E-33	No_clan
TRINITY_DN13615_c2_g2::TRINITY_DN13615_c2_g2_i1::g.26300::m.26300	1	11,8	14,396	-2	PF03079.13	ARD	155,8	9,20E-46	CL0029
TRINITY_DN13616_c0_g1::TRINITY_DN13616_c0_g1_i3::g.26276::m.26276	2	11,6	17,938	10,293	PF08768.10	DUF1794	143,7	3,70E-42	CL0116
TRINITY_DN13617_c1_g1::TRINITY_DN13617_c1_g1_i9::g.26343::m.26343	3	7,4	64,781	4,8977	PF12701.6	LSM14	108,4	1,30E-31	CL0527
TRINITY_DN13619_c0_g1::TRINITY_DN13619_c0_g1_i2::g.26348::m.26348	3	29,3	18,189	34,085	PF00582.25	Usp	101,2	6,50E-29	CL0039
TRINITY_DN13623_c1_g1::TRINITY_DN13623_c1_g1_i6::g.26584::m.26584	1	2,6	47,496	1,8535	PF02705.15	K_trans	319,5	3,30E-95	CL0062
TRINITY_DN13624_c1_g6::TRINITY_DN13624_c1_g6_i6::g.26482::m.26482	23	40	72,931	323,31	PF02518.25	HATPase_c	43,4	3,80E-11	CL0025
TRINITY_DN13630_c0_g1::TRINITY_DN13630_c0_g1_i5::g.26390::m.26390	1	1,3	162,22	3,114					
TRINITY_DN13636_c0_g1::TRINITY_DN13636_c0_g1_i5::g.26555::m.26555	2	22,9	18,726	35,424	PF00106.24	adh_short	115,9	1,40E-33	CL0063
TRINITY_DN13637_c0_g1::TRINITY_DN13637_c0_g1_i7::g.26541::m.26541	1	14,2	14,154	3,0575					
TRINITY_DN13640_c0_g3::TRINITY_DN13640_c0_g3_i9::g.26621::m.26621	2	6,8	44,027	2,7487	PF13249.5	SQHop_cyclase_N	38,6	6,00E-10	CL0059

TRINITY_DN13642_c0_g1::TRINITY_DN13642_c0_g1_i1::g.26569::m.26569	3	5,2	71,346	3,4648	PF00071.21	Ras	50,3	1,80E-13	CL0023
TRINITY_DN13645_c2_g2::TRINITY_DN13645_c2_g2_i6::g.26141::m.26141	2	16	21,99	3,0632	PF01918.20	Alba	67,6	5,60E-19	CL0441
TRINITY_DN13650_c8_g1::TRINITY_DN13650_c8_g1_i8::g.26099::m.26099	3	44,1	14,009	10,456	PF06201.12	PITH	88	6,70E-25	CL0202
TRINITY_DN13650_c9_g1::TRINITY_DN13650_c9_g1_i8::g.26115::m.26115	2	4,7	68,692	2,9732	PF05193.20	Peptidase_M16_C	121,4	3,90E-35	CL0094
TRINITY_DN13652_c1_g1::TRINITY_DN13652_c1_g1_i1::g.26699::m.26699	1	14,4	12,965	2,1096					
TRINITY_DN13653_c3_g1::TRINITY_DN13653_c3_g1_i1::g.26703::m.26703	10	19,5	76,405	24,986	PF00501.27	AMP-binding	339,5	2,00E-101	CL0378
TRINITY_DN13661_c3_g4::TRINITY_DN13661_c3_g4_i1::g.26847::m.26847	4	21,2	17,498	8,0914	PF01287.19	eIF-5a	100,9	2,90E-29	CL0021
TRINITY_DN13666_c1_g1::TRINITY_DN13666_c1_g1_i1::g.26956::m.26956	2	2,4	100,7	31,349	PF08263.11	LRRNT_2	22,1	0,00013	No_clan
TRINITY_DN13666_c1_g1::TRINITY_DN13666_c1_g1_i6::g.26985::m.26985	8	27,7	38,203	48,397	PF08263.11	LRRNT_2	24,4	2,50E-05	No_clan
TRINITY_DN13674_c0_g1::TRINITY_DN13674_c0_g1_i2::g.26925::m.26925	12	19,4	110,61	33,48	PF00343.19	Phosphorylase	436,8	1,30E-130	CL0113
TRINITY_DN13676_c3_g1::TRINITY_DN13676_c3_g1_i3::g.27135::m.27135	1	9,6	15,078	21,491					
TRINITY_DN13683_c1_g1::TRINITY_DN13683_c1_g1_i4::g.27154::m.27154	4	9,3	79,698	16,262	PF02657.14	SufE	93,8	6,20E-27	CL0233
TRINITY_DN13688_c0_g1::TRINITY_DN13688_c0_g1_i3::g.27185::m.27185	2	7,7	32,232	3,4996					
TRINITY_DN13691_c2_g1::TRINITY_DN13691_c2_g1_i3::g.27222::m.27222	3	17	25,215	7,6786	PF07977.12	FabA	119,4	7,70E-35	CL0050
TRINITY_DN13692_c0_g1::TRINITY_DN13692_c0_g1_i6::g.26626::m.26626	7	18,4	42,822	4,2337	PF00153.26	Mito_carr	79,4	1,30E-22	No_clan
TRINITY_DN13692_c1_g1::TRINITY_DN13692_c1_g1_i1::g.26628::m.26628	8	23,6	37,283	36,584	PF00153.26	Mito_carr	82,1	1,90E-23	No_clan
TRINITY_DN13702_c0_g1::TRINITY_DN13702_c0_g1_i4::g.27394::m.27394	1	11,1	11,187	11,402	PF02148.18	zf-UBP	46,2	4,00E-12	CL0229
TRINITY_DN13705_c0_g1::TRINITY_DN13705_c0_g1_i7::g.27449::m.27449	8	27,6	45,975	26,319	PF00091.24	Tubulin	180,4	4,20E-53	CL0566
TRINITY_DN13705_c0_g2::TRINITY_DN13705_c0_g2_i4::g.27444::m.27444	7	33,7	32,327	13,743	PF04845.12	PurA	73,1	1,90E-20	CL0609
TRINITY_DN13706_c2_g1::TRINITY_DN13706_c2_g1_i3::g.27413::m.27413	1	5,1	44,217	2,0339	PF03095.14	PTPA	406,7	5,90E-122	No_clan

TRINITY_DN13712_c0_g1::TRINITY_DN13712_c0_g1_i1::g.27487::m.27487	7	30,1	32,821	21,383	PF14938.5	SNAP	376,6	7,30E-113	CL0020
TRINITY_DN13720_c0_g6::TRINITY_DN13720_c0_g6_i1::g.27649::m.27649	2	10	26,813	2,7944					
TRINITY_DN13721_c0_g1::TRINITY_DN13721_c0_g1_i7::g.27621::m.27621	6	14,3	59,439	31,762	PF02990.15	EMP70	529	1,10E-158	No_clan
TRINITY_DN13724_c5_g4::TRINITY_DN13724_c5_g4_i1::g.27589::m.27589	1	2,6	48,538	1,843	PF00917.25	MATH	67,7	8,30E-19	CL0389
TRINITY_DN13726_c0_g3::TRINITY_DN13726_c0_g3_i1::g.27596::m.27596	12	29,5	49,29	28,215	PF00009.26	GTP_EFTU	180,2	2,90E-53	CL0023
TRINITY_DN13727_c0_g1::TRINITY_DN13727_c0_g1_i1::g.27676::m.27676	6	23	38,173	16,224	PF00155.20	Aminotran_1_2	217	4,00E-64	CL0061
TRINITY_DN13727_c0_g2::TRINITY_DN13727_c0_g2_i11::g.27681::m.27681	2	22,6	13,744	4,5473					
TRINITY_DN13729_c0_g1::TRINITY_DN13729_c0_g1_i8::g.27674::m.27674	10	38,8	35,365	42,406	PF07859.12	Abhydrolase_3	159,8	7,40E-47	CL0028
TRINITY_DN13734_c2_g1::TRINITY_DN13734_c2_g1_i1::g.27715::m.27715	1	5,1	27,844	2,0284	PF12481.7	DUF3700	347	3,80E-104	CL0052
TRINITY_DN13736_c4_g2::TRINITY_DN13736_c4_g2_i5::g.27391::m.27391	6	28,2	29,321	17,571	PF00248.20	Aldo_ket_red	130,5	6,20E-38	No_clan
TRINITY_DN13739_c0_g1::TRINITY_DN13739_c0_g1_i1::g.27726::m.27726	1	9,7	15,533	2,2148	PF12796.6	Ank_2	53	3,70E-14	CL0465
TRINITY_DN13740_c0_g1::TRINITY_DN13740_c0_g1_i2::g.27757::m.27757	4	10,3	49,148	8,7481	PF03463.14	eRF1_1	71	8,30E-20	No_clan
TRINITY_DN13743_c6_g3::TRINITY_DN13743_c6_g3_i1::g.27816::m.27816	2	7,4	44,697	2,6451	PF02493.19	MORN	19,2	0,00073	CL0251
TRINITY_DN13752_c3_g3::TRINITY_DN13752_c3_g3_i1::g.27967::m.27967	2	3,9	64,838	3,2191	PF00854.20	PTR2	271,8	8,10E-81	CL0015
TRINITY_DN13753_c0_g1::TRINITY_DN13753_c0_g1_i3::g.27858::m.27858	2	6,2	37,001	57,772	PF01636.22	APH	44,8	1,30E-11	CL0016
TRINITY_DN13757_c0_g1::TRINITY_DN13757_c0_g1_i4::g.28204::m.28204	3	15,7	27,504	62,333	PF00333.19	Ribosomal_S5	108,2	1,30E-31	CL0196
TRINITY_DN13767_c0_g1::TRINITY_DN13767_c0_g1_i2::g.28089::m.28089	2	15,5	16,53	6,2844	PF00004.28	AAA	22,2	0,00013	CL0023
TRINITY_DN13776_c0_g1::TRINITY_DN13776_c0_g1_i2::g.28095::m.28095	10	77,6	16,236	323,01	PF00294.23	PfkB	121,4	4,20E-35	CL0118
TRINITY_DN13776_c0_g2::TRINITY_DN13776_c0_g2_i2::g.28097::m.28097	8	47,1	24,425	99,195	PF00294.23	PfkB	170,9	3,60E-50	CL0118
TRINITY_DN13778_c1_g3::TRINITY_DN13778_c1_g3_i1::g.28124::m.28124	2	4,7	51,143	3,4687	PF06068.12	TIP49	604,7	6,70E-182	CL0023

TRINITY_DN13782_c0_g3::TRINITY_DN13782_c0_g3_i2::g.28223::m.28223	1	9,3	18,763	2,2781	PF10252.8	PP28	97,2	5,40E-28	No_clan
TRINITY_DN15075_c1_g2::TRINITY_DN15075_c1_g2_i1::g.46516::m.46516	2	13,2	11,977	2,7263	PF00125.23	Histone	123,4	6,80E-36	CL0012
TRINITY_DN13787_c3_g4::TRINITY_DN13787_c3_g4_i2::g.28260::m.28260	5	24,6	29,387	21,403	PF01459.21	Porin_3	248,5	7,30E-74	CL0193
TRINITY_DN13787_c3_g4::TRINITY_DN13787_c3_g4_i3::g.28262::m.28262	6	28,9	32,536	29,071	PF01459.21	Porin_3	251,3	1,10E-74	CL0193
TRINITY_DN13790_c1_g1::TRINITY_DN13790_c1_g1_i1::g.28245::m.28245	5	16	41,621	8,3948	PF01370.20	Epimerase	155,8	1,20E-45	CL0063
TRINITY_DN13791_c2_g2::TRINITY_DN13791_c2_g2_i3::g.28238::m.28238	2	5,9	34,608	2,5061	PF13041.5	PPR_2	50,4	1,70E-13	CL0020
TRINITY_DN13792_c0_g1::TRINITY_DN13792_c0_g1_i4::g.28291::m.28291	1	13	12,889	2,1072					
TRINITY_DN13798_c2_g3::TRINITY_DN13798_c2_g3_i1::g.28387::m.28387	1	5,6	19,763	6,1786	PF00462.23	Glutaredoxin	73,8	8,70E-21	CL0172
TRINITY_DN13809_c0_g1::TRINITY_DN13809_c0_g1_i2::g.28550::m.28550	4	14,1	44,32	9,5852	PF00579.24	tRNA-synt_1b	219,7	4,80E-65	CL0039
TRINITY_DN13812_c2_g1::TRINITY_DN13812_c2_g1_i1::g.28623::m.28623	1	17,1	15,52	110,24	PF09598.9	Stm1_N	64	1,60E-17	No_clan
TRINITY_DN13815_c1_g1::TRINITY_DN13815_c1_g1_i21::g.28891::m.28891	11	34,4	39,111	5,0874	PF16363.4	GDP_Man_Dehyd	181,4	2,60E-53	CL0063
TRINITY_DN13815_c1_g2::TRINITY_DN13815_c1_g2_i8::g.28885::m.28885	2	10,9	12,464	11,305					
TRINITY_DN13815_c1_g2::TRINITY_DN13815_c1_g2_i6::g.28882::m.28882	11	42,5	38,728	78,151	PF16363.4	GDP_Man_Dehyd	181,6	2,30E-53	CL0063
TRINITY_DN13818_c0_g2::TRINITY_DN13818_c0_g2_i1::g.28967::m.28967	3	14,4	46,763	24,196	PF08442.9	ATP-grasp_2	60,8	1,20E-16	CL0179
TRINITY_DN13818_c0_g2::TRINITY_DN13818_c0_g2_i15::g.28994::m.28994	3	12,7	40,166	2,9172	PF08442.9	ATP-grasp_2	61,4	8,10E-17	CL0179
TRINITY_DN1382_c0_g1::TRINITY_DN1382_c0_g1_i1::g.348::m.348	2	12,9	23,495	2,5653	PF00022.18	Actin	253,5	2,50E-75	CL0108
TRINITY_DN13820_c2_g1::TRINITY_DN13820_c2_g1_i2::g.28694::m.28694	9	25,7	46,35	53,941	PF00226.30	DnaJ	81,4	3,50E-23	CL0392
TRINITY_DN13823_c0_g2::TRINITY_DN13823_c0_g2_i2::g.29073::m.29073	12	48,5	40,703	49,069	PF02136.19	NTF2	101,2	4,80E-29	CL0051
TRINITY_DN13825_c0_g1::TRINITY_DN13825_c0_g1_i1::g.28844::m.28844	1	5	17,771	3,3537	PF00248.20	Aldo_ket_red	49,8	2,30E-13	No_clan
TRINITY_DN13825_c0_g1::TRINITY_DN13825_c0_g1_i2::g.28846::m.28846	4	32,1	17,604	8,0659	PF00248.20	Aldo_ket_red	62	4,60E-17	No_clan
TRINITY_DN13825_c0_g1::TRINITY_DN13825_c0_g1_i3::g.28848::m.28848	2	10,8	17,661	2,3515	PF00248.20	Aldo_ket_red	52,5	3,60E-14	No_clan
TRINITY_DN13825_c0_g2::TRINITY_DN13825_c0_g2_i1::g.28850::m.28850	8	56,4	18,015	33,636	PF00248.20	Aldo_ket_red	102,3	2,40E-29	No_clan

TRINITY_DN13825_c0_g2::TRINITY_DN13825_c0_g2_i4::g.28851::m.28851	6	37,7	17,996	4,6231	PF00248.20	Aldo_ket_red	102,3	2,40E-29	No_clan
TRINITY_DN13825_c1_g1::TRINITY_DN13825_c1_g1_i2::g.28853::m.28853	16	63,6	31,09	181,21	PF00248.20	Aldo_ket_red	158,7	1,60E-46	No_clan
TRINITY_DN13826_c0_g2::TRINITY_DN13826_c0_g2_i4::g.28934::m.28934	2	21,8	18,801	10,021	PF12220.7	U1snRNP70_N	73,8	1,20E-20	CL0221
TRINITY_DN13827_c1_g1::TRINITY_DN13827_c1_g1_i4::g.28842::m.28842	3	13,7	31,96	7,5577					
TRINITY_DN13833_c0_g1::TRINITY_DN13833_c0_g1_i8::g.29930::m.29930	3	12,8	35,741	5,5195	PF00149.27	Metallophos	122,8	2,40E-35	CL0163
TRINITY_DN13833_c0_g2::TRINITY_DN13833_c0_g2_i5::g.29925::m.29925	2	29,6	13,18	3,5544					
TRINITY_DN13841_c4_g1::TRINITY_DN13841_c4_g1_i2::g.28420::m.28420	4	15,1	40,205	12,672	PF13432.5	TPR_16	16,6	0,0089	CL0020
TRINITY_DN13841_c4_g1::TRINITY_DN13841_c4_g1_i7::g.28424::m.28424	4	13,3	44,173	29,527	PF01965.23	DJ-1_PfpI	163,8	2,70E-48	CL0014
TRINITY_DN13846_c2_g2::TRINITY_DN13846_c2_g2_i2::g.28548::m.28548	3	25	22,919	11,095	PF00227.25	Proteasome	145,3	1,40E-42	CL0052
TRINITY_DN13849_c3_g3::TRINITY_DN13849_c3_g3_i8::g.28501::m.28501	1	5,6	33,465	3,5482	PF16543.4	DFRP_C	43,4	3,40E-11	No_clan
TRINITY_DN13851_c1_g1::TRINITY_DN13851_c1_g1_i8::g.29304::m.29304	3	10,1	55,972	12,137	PF00026.22	Asp	465,4	9,20E-140	CL0129
TRINITY_DN13851_c1_g2::TRINITY_DN13851_c1_g2_i2::g.29292::m.29292	2	6	31,408	2,4007	PF00026.22	Asp	287,8	1,00E-85	CL0129
TRINITY_DN13852_c0_g1::TRINITY_DN13852_c0_g1_i7::g.28442::m.28442	3	11,6	38,722	6,1001	PF01507.18	PAPS_reduct	46,6	3,60E-12	CL0039
TRINITY_DN13858_c5_g2::TRINITY_DN13858_c5_g2_i2::g.29432::m.29432	1	4,6	26,899	2,1585	PF04051.15	TRAPP	145,7	7,40E-43	CL0210
TRINITY_DN13858_c6_g1::TRINITY_DN13858_c6_g1_i3::g.29437::m.29437	2	11,8	20,035	3,7074	PF00702.25	Hydrolase	59,3	5,80E-16	CL0137
TRINITY_DN13860_c0_g1::TRINITY_DN13860_c0_g1_i1::g.29366::m.29366	10	22,9	60,453	29,09	PF00085.19	Thioredoxin	54,4	8,70E-15	CL0172
TRINITY_DN13861_c0_g1::TRINITY_DN13861_c0_g1_i7::g.29399::m.29399	2	9,4	25,791	4,0262	PF05648.13	PEX11	163,8	3,80E-48	No_clan
TRINITY_DN13865_c0_g1::TRINITY_DN13865_c0_g1_i3::g.29082::m.29082	13	31,8	57,946	66,825	PF00483.22	NTP_transferase	273,6	1,40E-81	CL0110
TRINITY_DN13869_c6_g1::TRINITY_DN13869_c6_g1_i2::g.29653::m.29653	6	23,7	34,938	13,631	PF01014.17	Uricase	64,6	1,10E-17	CL0334
TRINITY_DN13871_c3_g1::TRINITY_DN13871_c3_g1_i4::g.29817::m.29817	2	2,8	123,93	2,3535	PF08626.10	TRAPPC9-Trs120	66,5	7,70E-19	No_clan
TRINITY_DN13872_c1_g1::TRINITY_DN13872_c1_g1_i2::g.29678::m.29678	5	37,8	16,221	15,806	PF01230.22	HIT	95,9	1,70E-27	CL0265

TRINITY_DN13872_c3_g1::TRINITY_DN13872_c3_g1_i6::g.29683::m.29683	1	14,4	15,413	3,4548	PF02466.18	Tim17	47,8	1,40E-12	No_clan
TRINITY_DN13876_c0_g1::TRINITY_DN13876_c0_g1_i2::g.29614::m.29614	6	24,3	30,177	44,159	PF13417.5	GST_N_3	68,1	6,00E-19	CL0172
TRINITY_DN13878_c2_g2::TRINITY_DN13878_c2_g2_i3::g.29757::m.29757	2	16,7	18,224	32,718	PF01230.22	HIT	45,2	1,10E-11	CL0265
TRINITY_DN13884_c2_g1::TRINITY_DN13884_c2_g1_i6::g.29871::m.29871	3	15,2	41,37	8,857	PF07145.14	PAM2	23,3	2,90E-05	No_clan
TRINITY_DN13888_c0_g2::TRINITY_DN13888_c0_g2_i1::g.29877::m.29877	1	18,4	12,293	3,4498					
TRINITY_DN13889_c0_g1::TRINITY_DN13889_c0_g1_i2::g.29853::m.29853	2	3,9	86,874	3,8842	PF13812.5	PPR_3	36,1	4,60E-09	CL0020
TRINITY_DN13893_c0_g2::TRINITY_DN13893_c0_g2_i1::g.30000::m.30000	2	10	29,626	6,2635	PF09325.9	Vps5	89	3,20E-25	CL0145
TRINITY_DN13894_c1_g1::TRINITY_DN13894_c1_g1_i8::g.29999::m.29999	1	8	20,664	2,5064	PF00171.21	Aldedh	55,9	2,40E-15	CL0099
TRINITY_DN13896_c0_g4::TRINITY_DN13896_c0_g4_i4::g.30042::m.30042	2	9,3	28,989	2,1079	PF07651.15	ANTH	223,1	3,20E-66	CL0009
TRINITY_DN13898_c1_g1::TRINITY_DN13898_c1_g1_i2::g.30051::m.30051	5	20,1	30,555	7,1287	PF04548.15	AIG1	124,2	4,20E-36	CL0023
TRINITY_DN13901_c0_g1::TRINITY_DN13901_c0_g1_i11::g.28513::m.28513	6	30,4	20,408	151,29	PF00085.19	Thioredoxin	62,6	2,60E-17	CL0172
TRINITY_DN13903_c0_g3::TRINITY_DN13903_c0_g3_i6::g.30258::m.30258	10	40,7	37,126	24,119	PF00141.22	peroxidase	222,8	4,30E-66	CL0617
TRINITY_DN13912_c2_g1::TRINITY_DN13912_c2_g1_i3::g.30407::m.30407	1	2,5	52,421	2,314	PF00332.17	Glyco_hydro_17	242,6	5,80E-72	CL0058
TRINITY_DN13915_c0_g2::TRINITY_DN13915_c0_g2_i2::g.30373::m.30373	1	19,6	11,197	3,0483	PF00408.19	PGM_PMM_IV	52,1	5,30E-14	No_clan
TRINITY_DN13916_c2_g1::TRINITY_DN13916_c2_g1_i2::g.30380::m.30380	33	40,3	108,41	323,31	PF00565.16	SNase	39,4	6,40E-10	CL0049
TRINITY_DN13916_c3_g1::TRINITY_DN13916_c3_g1_i2::g.30393::m.30393	15	35,5	53,367	120,22	PF00262.17	Calreticulin	490,9	1,80E-147	CL0004
TRINITY_DN13916_c3_g3::TRINITY_DN13916_c3_g3_i3::g.30403::m.30403	7	15,5	61,58	30,495	PF00262.17	Calreticulin	480,9	1,90E-144	CL0004
TRINITY_DN13918_c1_g1::TRINITY_DN13918_c1_g1_i8::g.30345::m.30345	8	12,8	109,25	24,784	PF01851.21	PC_rep	27,4	2,70E-06	CL0020
TRINITY_DN13920_c2_g1::TRINITY_DN13920_c2_g1_i2::g.30365::m.30365	3	30,3	21,439	12,088	PF02734.16	Dak2	150,1	5,10E-44	No_clan
TRINITY_DN13921_c0_g1::TRINITY_DN13921_c0_g1_i2::g.30314::m.30314	2	11,6	30,885	5,2153	PF04144.12	SCAMP	157,1	5,10E-46	No_clan
TRINITY_DN13928_c0_g1::TRINITY_DN13928_c0_g1_i1::g.30448::m.30448	5	6	113,57	8,9071					

TRINITY_DN13930_c0_g1::TRINITY_DN13930_c0_g1_i1::g.30435::m.30435	3	15,1	33,021	5,1549	PF02729.20	OTCace_N	152,3	8,50E-45	No_clan
TRINITY_DN13940_c4_g1::TRINITY_DN13940_c4_g1_i3::g.30598::m.30598	1	10,4	12,31	14,403					
TRINITY_DN13943_c0_g2::TRINITY_DN13943_c0_g2_i1::g.30525::m.30525	3	33	12,518	6,6628	PF03650.12	MPC	139,6	3,70E-41	CL0141
TRINITY_DN13945_c0_g1::TRINITY_DN13945_c0_g1_i2::g.30107::m.30107	7	28	33,104	10,187	PF13640.5	2OG-FeII_Oxy_3	76,8	1,70E-21	CL0029
TRINITY_DN13947_c3_g5::TRINITY_DN13947_c3_g5_i8::g.30694::m.30694	10	47,3	28,991	196,74	PF00753.26	Lactamase_B	44,1	2,10E-11	CL0381
TRINITY_DN13959_c0_g2::TRINITY_DN13959_c0_g2_i7::g.30593::m.30593	2	7,5	52,446	2,0199	PF03810.18	IBN_N	63,5	1,20E-17	CL0020
TRINITY_DN13961_c0_g1::TRINITY_DN13961_c0_g1_i2::g.30621::m.30621	3	11,6	42,623	4,8794	PF01634.17	HisG	127,5	4,00E-37	CL0177
TRINITY_DN13975_c1_g4::TRINITY_DN13975_c1_g4_i3::g.30944::m.30944	2	8,5	12,63	33,011	PF01263.19	Aldose_epim	87,1	1,20E-24	CL0103
TRINITY_DN13980_c0_g1::TRINITY_DN13980_c0_g1_i1::g.30892::m.30892	3	13,9	38,71	8,2443	PF13489.5	Methyltransf_23	74,4	8,50E-21	CL0063
TRINITY_DN13981_c1_g3::TRINITY_DN13981_c1_g3_i1::g.30911::m.30911	2	10,4	37,493	6,857	PF10250.8	O-FucT	73,8	1,90E-20	CL0113
TRINITY_DN13992_c5_g1::TRINITY_DN13992_c5_g1_i1::g.31138::m.31138	2	9,6	12,399	8,2008	PF00407.18	Bet_v_1	41	1,60E-10	CL0209
TRINITY_DN14005_c0_g1::TRINITY_DN14005_c0_g1_i3::g.31329::m.31329	1	15,5	13,741	12,652					
TRINITY_DN14005_c1_g1::TRINITY_DN14005_c1_g1_i1::g.31333::m.31333	2	4,8	50,544	3,1601	PF00266.18	Aminotran_5	53,9	1,30E-14	CL0061
TRINITY_DN14010_c5_g1::TRINITY_DN14010_c5_g1_i2::g.31420::m.31420	3	21,1	12,353	6,6803	PF01158.17	Ribosomal_L36e	144,1	1,10E-42	No_clan
TRINITY_DN14011_c0_g1::TRINITY_DN14011_c0_g1_i1::g.31283::m.31283	6	24,9	30,023	8,0919	PF01025.18	GrpE	155,6	8,40E-46	No_clan
TRINITY_DN14014_c3_g1::TRINITY_DN14014_c3_g1_i1::g.31362::m.31362	2	23,4	14,383	7,4304	PF03080.14	Neprosin	71,3	7,10E-20	No_clan
TRINITY_DN14016_c0_g1::TRINITY_DN14016_c0_g1_i9::g.31308::m.31308	3	21,1	17,09	4,1537	PF12799.6	LRR_4	34	2,40E-08	CL0022
TRINITY_DN14021_c1_g2::TRINITY_DN14021_c1_g2_i5::g.31431::m.31431	10	29,7	42,589	218,02	PF00079.19	Serpin	344,9	6,10E-103	No_clan
TRINITY_DN14025_c2_g1::TRINITY_DN14025_c2_g1_i8::g.31522::m.31522	9	20	66,546	122,61	PF13898.5	DUF4205	203,1	5,30E-60	No_clan
TRINITY_DN14028_c2_g1::TRINITY_DN14028_c2_g1_i4::g.31476::m.31476	2	3,6	102,87	6,9495	PF08414.9	NADPH_Ox	123,4	3,50E-36	No_clan
TRINITY_DN14030_c0_g1::TRINITY_DN14030_c0_g1_i1::g.31442::m.31442	19	71,5	35,379	323,31	PF00294.23	PfkB	262,4	4,90E-78	CL0118

TRINITY_DN14036_c4_g1::TRINITY_DN14036_c4_g1_i2::g.31377::m.31377	1	11,5	19,695	4,3307	PF01722.17	BolA	50,8	1,40E-13	No_clan
TRINITY_DN14038_c1_g1::TRINITY_DN14038_c1_g1_i3::g.31643::m.31643	9	28,5	37,737	5,206	PF00270.28	DEAD	136,4	7,60E-40	CL0023
TRINITY_DN14038_c1_g2::TRINITY_DN14038_c1_g2_i5::g.31646::m.31646	13	38,2	41,892	255,49	PF00270.28	DEAD	138,7	1,50E-40	CL0023
TRINITY_DN14041_c2_g1::TRINITY_DN14041_c2_g1_i4::g.31794::m.31794	19	40,9	68,474	323,31	PF02878.15	PGM_PMM_I	125,7	9,60E-37	No_clan
TRINITY_DN14041_c3_g1::TRINITY_DN14041_c3_g1_i2::g.31810::m.31810	2	6,3	40,869	3,8184	PF00170.20	bZIP_1	35,2	8,80E-09	CL0018
TRINITY_DN14042_c0_g1::TRINITY_DN14042_c0_g1_i1::g.31618::m.31618	3	4,8	70,928	2,605	PF12037.7	DUF3523	364,8	2,30E-109	No_clan
TRINITY_DN14047_c1_g1::TRINITY_DN14047_c1_g1_i4::g.31668::m.31668	2	11,2	26,828	4,4458	PF00248.20	Aldo_ket_red	198,7	1,10E-58	No_clan
TRINITY_DN14048_c1_g1::TRINITY_DN14048_c1_g1_i1::g.31820::m.31820	1	8,2	22,849	2,3472	PF09430.9	DUF2012	80,5	1,00E-22	CL0287
TRINITY_DN14049_c0_g1::TRINITY_DN14049_c0_g1_i2::g.31233::m.31233	3	14,3	29,43	3,5394					
TRINITY_DN14063_c0_g1::TRINITY_DN14063_c0_g1_i1::g.31854::m.31854	1	9,4	28,244	2,2285	PF03029.16	ATP_bind_1	235,6	6,20E-70	CL0023
TRINITY_DN14069_c0_g3::TRINITY_DN14069_c0_g3_i3::g.32072::m.32072	1	2,5	49,782	2,3947					
TRINITY_DN14069_c0_g5::TRINITY_DN14069_c0_g5_i5::g.32070::m.32070	1	10	14,447	2,6406	PF00326.20	Peptidase_S9	24,1	2,00E-05	CL0028
TRINITY_DN14078_c2_g2::TRINITY_DN14078_c2_g2_i1::g.32075::m.32075	1	11,8	13,056	1,8944	PF00240.22	ubiquitin	33,1	3,10E-08	CL0072
TRINITY_DN14079_c0_g2::TRINITY_DN14079_c0_g2_i4::g.32111::m.32111	3	37,7	12,714	2,7404	PF02127.14	Peptidase_M18	131,2	4,10E-38	CL0035
TRINITY_DN14080_c2_g1::TRINITY_DN14080_c2_g1_i10::g.32162::m.32162	12	59,4	24,436	17,529	PF00012.19	HSP70	308,1	8,90E-92	CL0108
TRINITY_DN14080_c2_g2::TRINITY_DN14080_c2_g2_i1::g.32148::m.32148	7	41,3	19,977	3,9585	PF00012.19	HSP70	306,7	2,30E-91	CL0108
TRINITY_DN14082_c1_g1::TRINITY_DN14082_c1_g1_i3::g.32100::m.32100	4	19,2	34,919	10,407					
TRINITY_DN14089_c0_g1::TRINITY_DN14089_c0_g1_i1::g.32223::m.32223	6	20,4	41,408	2,4215	PF13561.5	adh_short_C2	173,5	4,80E-51	CL0063
TRINITY_DN14089_c0_g1::TRINITY_DN14089_c0_g1_i6::g.32232::m.32232	7	25,1	41,695	20,235	PF13561.5	adh_short_C2	168,7	1,40E-49	CL0063
TRINITY_DN14090_c0_g1::TRINITY_DN14090_c0_g1_i4::g.32240::m.32240	9	29,2	44,525	63,686	PF01926.22	MMR_HSR1	77,3	8,50E-22	CL0023
TRINITY_DN14091_c1_g2::TRINITY_DN14091_c1_g2_i1::g.32197::m.32197	16	28	78,485	30,998	PF00378.19	ECH_1	145,2	2,00E-42	CL0127

TRINITY_DN14096_c0_g2::TRINITY_DN14096_c0_g2_i2::g.32310::m.32310	2	6,5	48,502	3,2801	PF16113.4	ECH_2	387,9	4,50E-116	CL0127
TRINITY_DN14096_c0_g4::TRINITY_DN14096_c0_g4_i2::g.32317::m.32317	3	31,9	12,357	2,2709	PF01849.17	NAC	27,3	2,50E-06	No_clan
TRINITY_DN14097_c2_g2::TRINITY_DN14097_c2_g2_i1::g.31570::m.31570	7	27,8	44,38	38,786	PF03081.14	Exo70	150,8	5,00E-44	CL0295
TRINITY_DN14106_c1_g2::TRINITY_DN14106_c1_g2_i1::g.32414::m.32414	8	20,1	48,781	14,035	PF01761.19	DHQ_synthase	352	1,50E-105	CL0224
TRINITY_DN14107_c0_g1::TRINITY_DN14107_c0_g1_i1::g.32583::m.32583	3	8,2	47,874	6,3328	PF00013.28	KH_1	47,2	1,30E-12	CL0007
TRINITY_DN14108_c0_g1::TRINITY_DN14108_c0_g1_i6::g.32445::m.32445	9	27,1	58,483	88,484	PF00240.22	ubiquitin	72,9	1,20E-20	CL0072
TRINITY_DN14114_c1_g1::TRINITY_DN14114_c1_g1_i9::g.32755::m.32755	8	22	55,61	24,64	PF01399.26	PCI	80,6	9,70E-23	CL0123
TRINITY_DN14115_c3_g1::TRINITY_DN14115_c3_g1_i10::g.32650::m.32650	7	22,3	45,551	54,75	PF01532.19	Glyco_hydro_47	328,1	8,40E-98	CL0059
TRINITY_DN14119_c2_g1::TRINITY_DN14119_c2_g1_i7::g.32525::m.32525	1	9	16,382	3,0949	PF00579.24	tRNA-synt_1b	61,5	7,20E-17	CL0039
TRINITY_DN14120_c0_g1::TRINITY_DN14120_c0_g1_i4::g.32545::m.32545	10	44,9	23,24	323,31	PF00121.17	TIM	247,6	1,00E-73	CL0036
TRINITY_DN14120_c0_g3::TRINITY_DN14120_c0_g3_i2::g.32536::m.32536	13	51,7	31,151	323,31	PF00121.17	TIM	293,3	1,20E-87	CL0036
TRINITY_DN14137_c0_g1::TRINITY_DN14137_c0_g1_i2::g.33039::m.33039	4	13	53,496	5,9951	PF00291.24	PALP	273,9	1,60E-81	No_clan
TRINITY_DN14139_c1_g3::TRINITY_DN14139_c1_g3_i2::g.32774::m.32774	5	13	50,787	9,0998	PF00152.19	tRNA-synt_2	44,7	8,30E-12	CL0040
TRINITY_DN14141_c0_g1::TRINITY_DN14141_c0_g1_i5::g.32827::m.32827	4	35,7	13,446	9,0072	PF05873.11	Mt_ATP-synt_D	52,8	3,70E-14	No_clan
TRINITY_DN14143_c3_g2::TRINITY_DN14143_c3_g2_i2::g.32997::m.32997	19	31,6	67,933	38,184	PF00342.18	PGI	167	5,30E-49	CL0067
TRINITY_DN14145_c0_g4::TRINITY_DN14145_c0_g4_i3::g.33080::m.33080	2	13,3	21,674	7,6665	PF09320.10	DUF1977	38,5	1,00E-09	No_clan
TRINITY_DN14157_c1_g1::TRINITY_DN14157_c1_g1_i4::g.33107::m.33107	6	22,1	39,006	11,787	PF00076.21	RRM_1	54	9,90E-15	CL0221
TRINITY_DN14157_c2_g1::TRINITY_DN14157_c2_g1_i3::g.33123::m.33123	5	56,9	11,492	142,42	PF00428.18	Ribosomal_60s	84,3	6,40E-24	No_clan
TRINITY_DN14162_c4_g1::TRINITY_DN14162_c4_g1_i2::g.33191::m.33191	10	53,8	22,013	323,31	PF13419.5	HAD_2	74	1,40E-20	CL0137
TRINITY_DN14175_c1_g1::TRINITY_DN14175_c1_g1_i3::g.33680::m.33680	3	7,8	51,349	6,5393	PF09405.9	Btz	66,2	3,10E-18	No_clan
TRINITY_DN19343_c7_g5::TRINITY_DN19343_c7_g5_i1::g.116417::m.116417	2	19,9	15,602	3,2747	PF01373.16	Glyco_hydro_14	65,3	4,50E-18	CL0058

TRINITY_DN14180_c0_g1::TRINITY_DN14180_c0_g1_i2::g.33272::m.33272	1	3,4	45,511	3,3487	PF00128.23	Alpha-amylase	48,1	1,10E-12	CL0058
TRINITY_DN14181_c0_g3::TRINITY_DN14181_c0_g3_i1::g.33572::m.33572	5	9,4	57,944	8,0334	PF00171.21	Aldedh	475,9	9,70E-143	CL0099
TRINITY_DN14185_c5_g3::TRINITY_DN14185_c5_g3_i3::g.33391::m.33391	15	62	35,679	99,433	PF00056.22	Ldh_1_N	115,3	2,10E-33	CL0063
TRINITY_DN14186_c0_g1::TRINITY_DN14186_c0_g1_i2::g.33325::m.33325	2	14,6	24,077	4,4239	PF13793.5	Pribosyltran_N	150,3	1,80E-44	CL0533
TRINITY_DN14188_c2_g2::TRINITY_DN14188_c2_g2_i3::g.32373::m.32373	9	42,3	36,022	88,067	PF00400.31	WD40	14,9	0,034	CL0186
TRINITY_DN14193_c0_g1::TRINITY_DN14193_c0_g1_i4::g.33482::m.33482	1	11,6	13,901	2,1844	PF04836.11	IFRD_C	63,4	2,00E-17	No_clan
TRINITY_DN14194_c0_g2::TRINITY_DN14194_c0_g2_i9::g.33546::m.33546	5	15,5	50,699	8,896	PF00202.20	Aminotran_3	370	1,10E-110	CL0061
TRINITY_DN14194_c1_g1::TRINITY_DN14194_c1_g1_i9::g.33557::m.33557	1	12,4	22,292	6,0515					
TRINITY_DN14197_c0_g1::TRINITY_DN14197_c0_g1_i2::g.33493::m.33493	7	23,7	47,711	16,501	PF00004.28	AAA	134,8	2,20E-39	CL0023
TRINITY_DN14198_c0_g1::TRINITY_DN14198_c0_g1_i9::g.33644::m.33644	3	27,2	18,515	6,9668	PF00534.19	Glycos_transf_1	34,9	9,60E-09	CL0113
TRINITY_DN14198_c0_g1::TRINITY_DN14198_c0_g1_i5::g.33635::m.33635	6	26,9	39,065	15,899	PF08323.10	Glyco_transf_5	67,9	9,90E-19	CL0113
TRINITY_DN14198_c0_g1::TRINITY_DN14198_c0_g1_i4::g.33633::m.33633	2	13,8	23,894	2,711	PF08323.10	Glyco_transf_5	147,1	6,30E-43	CL0113
TRINITY_DN14200_c0_g1::TRINITY_DN14200_c0_g1_i2::g.33523::m.33523	6	11,9	68,386	10,586	PF00933.20	Glyco_hydro_3	242	8,90E-72	CL0058
TRINITY_DN14202_c2_g1::TRINITY_DN14202_c2_g1_i3::g.33869::m.33869	2	15,7	17,303	3,7293	PF05008.14	V-SNARE	88,4	2,70E-25	CL0147
TRINITY_DN14203_c2_g1::TRINITY_DN14203_c2_g1_i1::g.33817::m.33817	15	19,1	115,48	40,944	PF02861.19	Clp_N	56,5	2,00E-15	No_clan
TRINITY_DN14203_c2_g2::TRINITY_DN14203_c2_g2_i3::g.33825::m.33825	6	8,8	103,39	9,63	PF02861.19	Clp_N	47,8	1,10E-12	No_clan
TRINITY_DN14204_c0_g1::TRINITY_DN14204_c0_g1_i1::g.33924::m.33924	3	22,1	12,356	226,47	PF01095.18	Pectinesterase	73,3	1,20E-20	CL0268
TRINITY_DN14204_c0_g1::TRINITY_DN14204_c0_g1_i2::g.33925::m.33925	4	44,4	10,771	61,432	PF01095.18	Pectinesterase	55,9	2,50E-15	CL0268
TRINITY_DN14204_c1_g1::TRINITY_DN14204_c1_g1_i2::g.33927::m.33927	2	11,9	29,85	5,0875					
TRINITY_DN14209_c0_g1::TRINITY_DN14209_c0_g1_i2::g.34018::m.34018	2	6,7	38,161	5,1938					
TRINITY_DN14210_c0_g1::TRINITY_DN14210_c0_g1_i5::g.33918::m.33918	2	11,7	21,311	22,025	PF01912.17	eIF-6	229,2	2,60E-68	CL0197

TRINITY_DN14213_c1_g1::TRINITY_DN14213_c1_g1_i6::g.33993::m.33993	14	35,8	49,462	39,184	PF14306.5	PUA_2	148,1	1,50E-43	CL0178
TRINITY_DN14216_c0_g3::TRINITY_DN14216_c0_g3_i3::g.34216::m.34216	4	30,7	16,752	2,3726	PF00248.20	Aldo_ket_red	142,6	1,30E-41	No_clan
TRINITY_DN14219_c0_g1::TRINITY_DN14219_c0_g1_i18::g.33900::m.33900	4	14,7	26,595	6,5561	PF00535.25	Glycos_transf_2	127,1	5,60E-37	CL0110
TRINITY_DN14219_c0_g1::TRINITY_DN14219_c0_g1_i15::g.33893::m.33893	5	22,1	38,888	10,243	PF09229.10	Aha1_N	103,4	1,00E-29	CL0648
TRINITY_DN14233_c0_g1::TRINITY_DN14233_c0_g1_i2::g.34181::m.34181	7	18,6	55,906	17,1	PF00275.19	EPSP_synthase	480,7	3,00E-144	CL0290
TRINITY_DN14238_c0_g1::TRINITY_DN14238_c0_g1_i3::g.34351::m.34351	7	42,8	20,355	77,537	PF00160.20	Pro_isomerase	166,9	3,80E-49	CL0475
TRINITY_DN14239_c2_g2::TRINITY_DN14239_c2_g2_i2::g.34369::m.34369	2	6,1	45,161	8,0036	PF07393.10	Sec10	306,3	4,50E-91	CL0294
TRINITY_DN14242_c1_g2::TRINITY_DN14242_c1_g2_i9::g.34423::m.34423	4	20,9	32,289	182,49	PF00753.26	Lactamase_B	24,7	1,80E-05	CL0381
TRINITY_DN14245_c1_g1::TRINITY_DN14245_c1_g1_i8::g.34453::m.34453	2	22,3	15,665	5,553	PF02815.18	MIR	38,5	9,70E-10	CL0066
TRINITY_DN14246_c2_g1::TRINITY_DN14246_c2_g1_i1::g.34260::m.34260	4	11,9	38,505	8,7786	PF01087.21	GalP_UDP_transf	71	1,60E-19	CL0265
TRINITY_DN14251_c1_g2::TRINITY_DN14251_c1_g2_i7::g.34536::m.34536	5	26,2	29,6	8,3057	PF13023.5	HD_3	160	4,40E-47	CL0237
TRINITY_DN14258_c0_g1::TRINITY_DN14258_c0_g1_i5::g.34520::m.34520	5	10,8	86,279	11,146	PF07766.12	LETM1	338,2	2,80E-101	No_clan
TRINITY_DN14258_c0_g5::TRINITY_DN14258_c0_g5_i3::g.34521::m.34521	4	8,3	85,136	5,8443	PF07766.12	LETM1	358,8	1,50E-107	No_clan
TRINITY_DN14259_c3_g1::TRINITY_DN14259_c3_g1_i2::g.34652::m.34652	2	9,6	41,782	3,856	PF04371.14	PAD_porph	427,2	3,60E-128	CL0197
TRINITY_DN14259_c5_g1::TRINITY_DN14259_c5_g1_i8::g.34656::m.34656	1	10,3	16,649	3,0141					
TRINITY_DN14260_c1_g1::TRINITY_DN14260_c1_g1_i4::g.34485::m.34485	8	39,3	31,513	21,303	PF00793.19	DAHP_synth_1	206,1	4,20E-61	CL0036
TRINITY_DN14266_c0_g1::TRINITY_DN14266_c0_g1_i8::g.34769::m.34769	24	39,3	89,603	131,48	PF02359.17	CDC48_N	80,7	6,30E-23	CL0332
TRINITY_DN14266_c0_g5::TRINITY_DN14266_c0_g5_i1::g.34758::m.34758	9	48,7	25,782	6,0722	PF02933.16	CDC48_2	49,3	2,90E-13	CL0402
TRINITY_DN14268_c0_g1::TRINITY_DN14268_c0_g1_i4::g.34610::m.34610	6	23,8	44,552	21,618	PF02771.15	Acyl-CoA_dh_N	116,4	9,40E-34	CL0544
TRINITY_DN14274_c2_g1::TRINITY_DN14274_c2_g1_i1::g.34705::m.34705	1	8,4	24,611	2,8307	PF00282.18	Pyridoxal_deC	29,1	3,60E-07	CL0061

TRINITY_DN14279_c0_g2::TRINITY_DN14279_c0_g2_i1::g.34822::m.34822	7	18,4	68,029	34,759	PF03219.13	TLC	660,1	1,90E-198	CL0015
TRINITY_DN14281_c0_g1::TRINITY_DN14281_c0_g1_i1::g.34852::m.34852	3	9	47,999	4,891	PF01494.18	FAD_binding_3	29,6	3,70E-07	CL0063
TRINITY_DN14286_c1_g1::TRINITY_DN14286_c1_g1_i4::g.34874::m.34874	5	31,9	21,724	13,269	PF06703.10	SPC25	140,1	4,90E-41	No_clan
TRINITY_DN14291_c3_g7::TRINITY_DN14291_c3_g7_i2::g.35143::m.35143	3	15,7	26,082	23,767	PF00583.24	Acetyltransf_1	50,2	2,40E-13	CL0257
TRINITY_DN14304_c1_g1::TRINITY_DN14304_c1_g1_i6::g.35219::m.35219	1	8,5	15,707	1,9027					
TRINITY_DN14308_c0_g1::TRINITY_DN14308_c0_g1_i1::g.35383::m.35383	7	23,8	45,031	20,675	PF02136.19	NTF2	97,4	7,50E-28	CL0051
TRINITY_DN14308_c1_g1::TRINITY_DN14308_c1_g1_i5::g.35396::m.35396	3	13,5	37,704	6,2509	PF00076.21	RRM_1	46,8	1,80E-12	CL0221
TRINITY_DN14310_c2_g3::TRINITY_DN14310_c2_g3_i5::g.35345::m.35345	1	9	17,97	2,7688	PF01150.16	GDA1_CD39	92,5	2,10E-26	CL0108
TRINITY_DN14316_c0_g1::TRINITY_DN14316_c0_g1_i5::g.35352::m.35352	1	13,2	14,607	2,6785					
TRINITY_DN14318_c1_g3::TRINITY_DN14318_c1_g3_i3::g.35377::m.35377	1	7,6	12,981	2,0073	PF04043.14	PMEI	60,1	2,80E-16	No_clan
TRINITY_DN14320_c0_g6::TRINITY_DN14320_c0_g6_i4::g.35483::m.35483	2	22,7	19,643	4,0885	PF03127.13	GAT	67	1,30E-18	No_clan
TRINITY_DN14322_c1_g1::TRINITY_DN14322_c1_g1_i1::g.35379::m.35379	4	12,9	52,159	8,126	PF00202.20	Aminotran_3	292,5	3,70E-87	CL0061
TRINITY_DN14323_c0_g1::TRINITY_DN14323_c0_g1_i2::g.35566::m.35566	15	22,4	94,891	76,531	PF02518.25	HATPase_c	50	3,40E-13	CL0025
TRINITY_DN14323_c2_g3::TRINITY_DN14323_c2_g3_i2::g.35593::m.35593	4	17,1	43,357	8,7012	PF00004.28	AAA	123,4	7,30E-36	CL0023
TRINITY_DN14323_c3_g1::TRINITY_DN14323_c3_g1_i1::g.35598::m.35598	2	16	15,872	1,9425	PF06068.12	TIP49	188,4	1,80E-55	CL0023
TRINITY_DN14324_c0_g1::TRINITY_DN14324_c0_g1_i3::g.35430::m.35430	2	7,1	47,853	3,6457	PF01398.20	JAB	90,1	8,50E-26	CL0366
TRINITY_DN14325_c0_g1::TRINITY_DN14325_c0_g1_i1::g.35421::m.35421	13	63,4	32,214	323,31	PF00141.22	peroxidase	276,9	1,20E-82	CL0617
TRINITY_DN14326_c0_g1::TRINITY_DN14326_c0_g1_i2::g.35500::m.35500	2	16,9	17,841	5,8591					
TRINITY_DN14328_c3_g1::TRINITY_DN14328_c3_g1_i9::g.35530::m.35530	27	53,5	55,564	323,31	PF00085.19	Thioredoxin	104,8	1,80E-30	CL0172
TRINITY_DN14334_c2_g6::TRINITY_DN14334_c2_g6_i1::g.35159::m.35159	2	27,2	11,105	2,2427	PF05056.11	DUF674	39,9	2,10E-10	No_clan
TRINITY_DN14335_c0_g1::TRINITY_DN14335_c0_g1_i7::g.35543::m.35543	3	13,2	35,11	6,6855	PF03643.14	Vps26	413,4	2,90E-124	CL0135

TRINITY_DN14338_c3_g2::TRINITY_DN14338_c3_g2_i1::g.35555::m.35555	7	23,3	46,407	12,162	PF00232.17	Glyco_hydro_1	463,7	4,40E-139	CL0058
TRINITY_DN14341_c0_g1::TRINITY_DN14341_c0_g1_i1::g.35559::m.35559	19	46	53,383	139,43					
TRINITY_DN14353_c0_g2::TRINITY_DN14353_c0_g2_i2::g.35716::m.35716	3	23,8	20,574	7,5609	PF01086.16	Clathrin_lg_ch	24,5	2,20E-05	No_clan
TRINITY_DN14356_c4_g1::TRINITY_DN14356_c4_g1_i9::g.35853::m.35853	2	13,2	30,294	5,4151					
TRINITY_DN14356_c5_g1::TRINITY_DN14356_c5_g1_i2::g.35855::m.35855	2	4,6	42,02	2,6791	PF00035.25	dsrm	57,1	2,00E-15	CL0196
TRINITY_DN14357_c5_g2::TRINITY_DN14357_c5_g2_i13::g.35817::m.35817	2	16,3	13,958	2,398	PF01918.20	Alba	67,4	6,50E-19	CL0441
TRINITY_DN14360_c0_g2::TRINITY_DN14360_c0_g2_i2::g.35887::m.35887	11	31,9	50,292	24,639	PF00091.24	Tubulin	236,1	3,50E-70	CL0566
TRINITY_DN14361_c0_g1::TRINITY_DN14361_c0_g1_i5::g.35830::m.35830	7	13,2	91,705	13,118					
TRINITY_DN14373_c0_g1::TRINITY_DN14373_c0_g1_i5::g.36002::m.36002	1	10,1	16,169	1,8933	PF12643.6	MazG-like	29,7	5,30E-07	CL0231
TRINITY_DN14374_c0_g1::TRINITY_DN14374_c0_g1_i4::g.36023::m.36023	2	13,3	23,046	7,1444	PF04525.11	LOR	200,7	1,40E-59	CL0395
TRINITY_DN14376_c2_g1::TRINITY_DN14376_c2_g1_i4::g.36173::m.36173	2	20,5	12,578	2,5988					
TRINITY_DN14376_c2_g2::TRINITY_DN14376_c2_g2_i8::g.36166::m.36166	2	8,5	31,339	1,8694	PF01145.24	Band_7	89,6	2,20E-25	CL0433
TRINITY_DN14376_c2_g4::TRINITY_DN14376_c2_g4_i7::g.36164::m.36164	2	12	22,132	4,3122	PF01145.24	Band_7	25,6	9,50E-06	CL0433
TRINITY_DN14378_c0_g2::TRINITY_DN14378_c0_g2_i6::g.36119::m.36119	6	31,4	24,923	17,785	PF00252.17	Ribosomal_L16	143,2	4,30E-42	No_clan
TRINITY_DN14391_c2_g1::TRINITY_DN14391_c2_g1_i3::g.36277::m.36277	1	21	10,747	3,4831					
TRINITY_DN14391_c2_g2::TRINITY_DN14391_c2_g2_i2::g.36282::m.36282	4	39,6	12,818	30,996					
TRINITY_DN14391_c2_g3::TRINITY_DN14391_c2_g3_i1::g.36280::m.36280	1	15,6	14,198	3,4493					
TRINITY_DN14396_c0_g2::TRINITY_DN14396_c0_g2_i1::g.35371::m.35371	4	31,9	18,024	21,016	PF05899.11	Cupin_3	101,2	1,70E-29	CL0029
TRINITY_DN14398_c0_g1::TRINITY_DN14398_c0_g1_i7::g.36405::m.36405	13	51,2	46,081	323,31	PF11543.7	UN_NPL4	29,1	9,50E-07	CL0072
TRINITY_DN14403_c4_g2::TRINITY_DN14403_c4_g2_i1::g.36526::m.36526	15	16,7	122,39	31,836	PF00686.18	CBM_20	56,1	2,50E-15	CL0369
TRINITY_DN14404_c3_g2::TRINITY_DN14404_c3_g2_i3::g.36551::m.36551	4	12,7	63,205	8,154	PF00009.26	GTP_EFTU	207,1	1,70E-61	CL0023

TRINITY_DN14404_c3_g3::TRINITY_DN14404_c3_g3_i3::g.36554::m.36554	1	7,4	21,786	1,9569	PF03764.17	EFG_IV	109,7	6,70E-32	CL0329
TRINITY_DN14405_c4_g1::TRINITY_DN14405_c4_g1_i11::g.36585::m.36585	14	25,8	74,261	61,392	PF14749.5	Acyl-CoA_ox_N	112,9	1,30E-32	CL0544
TRINITY_DN14406_c2_g1::TRINITY_DN14406_c2_g1_i7::g.36607::m.36607	12	23,9	75,965	65,65	PF02770.18	Acyl-CoA_dh_M	53,8	1,60E-14	No_clan
TRINITY_DN14408_c0_g1::TRINITY_DN14408_c0_g1_i2::g.36628::m.36628	1	16	14,447	3,3	PF00995.22	Sec1	74,8	8,00E-21	No_clan
TRINITY_DN14408_c0_g2::TRINITY_DN14408_c0_g2_i5::g.36629::m.36629	2	4,1	58,441	3,0275	PF00995.22	Sec1	300,4	3,60E-89	No_clan
TRINITY_DN14410_c0_g6::TRINITY_DN14410_c0_g6_i1::g.36618::m.36618	2	18,3	12,575	28,61	PF02109.15	DAD	134	2,20E-39	No_clan
TRINITY_DN14413_c0_g1::TRINITY_DN14413_c0_g1_i13::g.36824::m.36824	9	31,8	38,538	42,214	PF02779.23	Transket_pyr	156,4	5,40E-46	CL0254
TRINITY_DN14413_c0_g2::TRINITY_DN14413_c0_g2_i2::g.36805::m.36805	2	4,7	48,834	3,1254	PF01053.19	Cys_Met_Meta_PP	278	7,90E-83	CL0061
TRINITY_DN14419_c1_g1::TRINITY_DN14419_c1_g1_i6::g.36874::m.36874	3	5,8	73,36	3,6757	PF16656.4	Pur_ac_phosph_N	67	1,50E-18	CL0159
TRINITY_DN14420_c1_g1::TRINITY_DN14420_c1_g1_i4::g.36850::m.36850	2	18,3	16,47	5,0345					
TRINITY_DN14421_c2_g1::TRINITY_DN14421_c2_g1_i4::g.36938::m.36938	5	37,9	17,694	231,58	PF00025.20	Arf	232,8	1,50E-69	CL0023
TRINITY_DN14427_c0_g1::TRINITY_DN14427_c0_g1_i8::g.36957::m.36957	1	4,6	44,006	3,048	PF01553.20	Acyltransferase	61,2	6,90E-17	CL0228
TRINITY_DN14430_c0_g1::TRINITY_DN14430_c0_g1_i7::g.37424::m.37424	5	12,8	59,087	13,972	PF00479.21	G6PD_N	197,5	2,60E-58	CL0063
TRINITY_DN14435_c3_g2::TRINITY_DN14435_c3_g2_i6::g.36467::m.36467	18	48,5	59,728	181,36	PF11421.7	Synthase_beta	59,1	4,90E-16	No_clan
TRINITY_DN14435_c4_g2::TRINITY_DN14435_c4_g2_i1::g.36484::m.36484	11	42,9	37,865	247,22	PF00141.22	peroxidase	229,3	4,40E-68	CL0617
TRINITY_DN14453_c2_g1::TRINITY_DN14453_c2_g1_i6::g.37399::m.37399	1	5,6	18,235	6,2716	PF05726.12	Pirin_C	121,5	1,60E-35	CL0029
TRINITY_DN14453_c2_g3::TRINITY_DN14453_c2_g3_i2::g.37393::m.37393	2	19	15,101	3,5513	PF02678.15	Pirin	94,6	3,10E-27	CL0029
TRINITY_DN14455_c0_g1::TRINITY_DN14455_c0_g1_i2::g.37451::m.37451	11	36,4	42,459	24,562	PF00162.18	PGK	431,3	2,80E-129	No_clan
TRINITY_DN14455_c0_g9::TRINITY_DN14455_c0_g9_i1::g.37463::m.37463	22	74,6	36,121	323,31	PF00162.18	PGK	480,2	3,80E-144	No_clan
TRINITY_DN14459_c0_g1::TRINITY_DN14459_c0_g1_i2::g.37381::m.37381	2	8	40,733	4,2158	PF00288.25	GHMP_kinases_N	73,6	1,10E-20	CL0329
TRINITY_DN14460_c2_g2::TRINITY_DN14460_c2_g2_i7::g.37472::m.37472	13	36,9	53,632	29,071	PF07992.13	Pyr_redox_2	232,2	6,70E-69	CL0063

TRINITY_DN14461_c1_g2::TRINITY_DN14461_c1_g2_i3::g.37522::m.37522	3	16,9	26,45	5,9643	PF02140.17	Gal_Lectin	31,9	1,20E-07	No_clan
TRINITY_DN14461_c1_g4::TRINITY_DN14461_c1_g4_i3::g.37527::m.37527	2	24,7	16,408	1,8883	PF01301.18	Glyco_hydro_35	55,7	5,30E-15	CL0058
TRINITY_DN14467_c3_g1::TRINITY_DN14467_c3_g1_i7::g.37643::m.37643	2	4,3	46,506	2,8372	PF01154.16	HMG_CoA_synt_N	205,4	5,10E-61	CL0046
TRINITY_DN14469_c0_g1::TRINITY_DN14469_c0_g1_i2::g.37789::m.37789	5	16,1	40,307	9,369	PF08241.11	Methyltransf_11	78,3	4,80E-22	CL0063
TRINITY_DN14469_c0_g2::TRINITY_DN14469_c0_g2_i3::g.37807::m.37807	4	10,4	50,873	14,71	PF14555.5	UBA_4	40	2,40E-10	CL0214
TRINITY_DN14475_c2_g1::TRINITY_DN14475_c2_g1_i7::g.36756::m.36756	2	14,8	20,979	3,9208	PF00494.18	SQS_PSY	85,9	2,80E-24	CL0613
TRINITY_DN14479_c0_g2::TRINITY_DN14479_c0_g2_i3::g.37670::m.37670	2	24,7	16,919	2,3947	PF00313.21	CSD	80,2	6,60E-23	CL0021
TRINITY_DN14480_c1_g1::TRINITY_DN14480_c1_g1_i3::g.37689::m.37689	1	10	11,73	1,958	PF07200.12	Mod_r	76,2	2,60E-21	CL0596
TRINITY_DN14482_c0_g1::TRINITY_DN14482_c0_g1_i1::g.37716::m.37716	1	3,5	61,69	3,1632					
TRINITY_DN14486_c0_g4::TRINITY_DN14486_c0_g4_i1::g.37922::m.37922	1	5,8	28,412	1,8714					
TRINITY_DN14491_c0_g1::TRINITY_DN14491_c0_g1_i2::g.37893::m.37893	1	7,4	26,046	2,0449	PF05633.10	BPS1	328,5	5,10E-98	CL0133
TRINITY_DN14491_c1_g3::TRINITY_DN14491_c1_g3_i2::g.37906::m.37906	2	7,7	32,252	2,659	PF02897.14	Peptidase_S9_N	210,6	3,10E-62	CL0186
TRINITY_DN14491_c1_g5::TRINITY_DN14491_c1_g5_i7::g.37912::m.37912	6	17,7	53,923	21,604	PF00326.20	Peptidase_S9	235,3	4,70E-70	CL0028
TRINITY_DN14491_c1_g5::TRINITY_DN14491_c1_g5_i8::g.37914::m.37914	3	25	16,748	7,2428	PF06747.12	CHCH	28,2	1,30E-06	CL0351
TRINITY_DN14491_c1_g6::TRINITY_DN14491_c1_g6_i1::g.37898::m.37898	2	12,5	21,551	3,5163	PF06888.11	Put_Phosphatase	243,3	2,00E-72	CL0137
TRINITY_DN14504_c3_g1::TRINITY_DN14504_c3_g1_i2::g.38234::m.38234	4	9,8	40,002	2,9293	PF00364.21	Biotin_lipoyl	63,1	1,50E-17	CL0105
TRINITY_DN14505_c2_g1::TRINITY_DN14505_c2_g1_i2::g.38114::m.38114	1	14,5	11,855	10,652	PF03357.20	Snf7	57,1	1,50E-15	CL0235
TRINITY_DN14508_c8_g1::TRINITY_DN14508_c8_g1_i4::g.38373::m.38373	5	47	16,351	75,928	PF03168.12	LEA_2	68,9	4,20E-19	CL0159
TRINITY_DN14508_c8_g1::TRINITY_DN14508_c8_g1_i7::g.38377::m.38377	5	49,6	14,87	284,11	PF03168.12	LEA_2	70,4	1,40E-19	CL0159
TRINITY_DN14508_c8_g1::TRINITY_DN14508_c8_g1_i8::g.38378::m.38378	5	43	16,325	45,788	PF03168.12	LEA_2	67,8	9,20E-19	CL0159
TRINITY_DN14511_c0_g1::TRINITY_DN14511_c0_g1_i3::g.38108::m.38108	7	76,1	12,064	323,31	PF00076.21	RRM_1	79,7	9,40E-23	CL0221
TRINITY_DN14513_c0_g3::TRINITY_DN14513_c0_g3_i9::g.38189::m.38189	4	34,4	17,711	89,285	PF00407.18	Bet_v_1	79,6	2,00E-22	CL0209

TRINITY_DN14516_c0_g1::TRINITY_DN14516_c0_g1_i7::g.38023::m.38023	1	5,1	21,608	5,247	PF02861.19	Clp_N	38,4	9,20E-10	No_clan
TRINITY_DN14517_c1_g1::TRINITY_DN14517_c1_g1_i15::g.38263::m.38263	7	19,8	44,944	124,96	PF00240.22	ubiquitin	60,1	1,20E-16	CL0072
TRINITY_DN14518_c1_g2::TRINITY_DN14518_c1_g2_i4::g.38282::m.38282	1	2,4	51,886	2,2509	PF01210.22	NAD_Gly3P_dh_N	39,6	4,70E-10	CL0063
TRINITY_DN14520_c0_g2::TRINITY_DN14520_c0_g2_i5::g.38465::m.38465	3	4,8	85,65	4,9337	PF00888.21	Cullin	738,5	6,30E-222	No_clan
TRINITY_DN14525_c1_g1::TRINITY_DN14525_c1_g1_i2::g.38384::m.38384	8	12,9	77,608	10,105	PF02770.18	Acyl-CoA_dh_M	52,1	5,30E-14	No_clan
TRINITY_DN14538_c2_g2::TRINITY_DN14538_c2_g2_i3::g.38504::m.38504	2	7,8	35,565	3,6488	PF00106.24	adh_short	125	2,40E-36	CL0063
TRINITY_DN14538_c2_g2::TRINITY_DN14538_c2_g2_i9::g.38508::m.38508	2	14,5	25,914	3,3881	PF12352.7	V-SNARE_C	45,7	5,40E-12	CL0147
TRINITY_DN14539_c1_g2::TRINITY_DN14539_c1_g2_i5::g.38538::m.38538	11	38,3	45,745	30,409	PF00091.24	Tubulin	182,6	9,10E-54	CL0566
TRINITY_DN14545_c0_g1::TRINITY_DN14545_c0_g1_i2::g.38714::m.38714	5	24,2	31,115	12,324	PF01168.19	Ala_racemase_N	80,7	1,10E-22	CL0036
TRINITY_DN14545_c0_g2::TRINITY_DN14545_c0_g2_i2::g.38716::m.38716	13	36,8	50,227	98,49	PF00091.24	Tubulin	234,2	1,40E-69	CL0566
TRINITY_DN14545_c0_g2::TRINITY_DN14545_c0_g2_i6::g.38726::m.38726	10	28,3	50,236	6,0217	PF00091.24	Tubulin	233,9	1,70E-69	CL0566
TRINITY_DN14547_c0_g1::TRINITY_DN14547_c0_g1_i3::g.38055::m.38055	5	29,5	31,282	25,614	PF01398.20	JAB	71,3	5,80E-20	CL0366
TRINITY_DN14553_c3_g1::TRINITY_DN14553_c3_g1_i5::g.38708::m.38708	3	6,9	63,745	5,4719	PF12819.6	Malectin_like	47,6	1,20E-12	CL0468
TRINITY_DN14555_c5_g1::TRINITY_DN14555_c5_g1_i2::g.38904::m.38904	1	8,3	16,533	2,8091	PF00515.27	TPR_1	36,8	1,90E-09	CL0020
TRINITY_DN14555_c5_g4::TRINITY_DN14555_c5_g4_i1::g.38907::m.38907	4	39,4	10,915	323,31					
TRINITY_DN14557_c1_g1::TRINITY_DN14557_c1_g1_i7::g.38742::m.38742	1	4,6	38,974	11,026	PF00300.21	His_Phos_1	64,6	8,50E-18	CL0071
TRINITY_DN14558_c2_g3::TRINITY_DN14558_c2_g3_i1::g.38817::m.38817	7	42,9	17,153	323,31	PF00240.22	ubiquitin	116,2	3,60E-34	CL0072
TRINITY_DN14563_c5_g1::TRINITY_DN14563_c5_g1_i5::g.38974::m.38974	2	9	23,141	3,7908	PF03151.15	TPT	197,5	2,80E-58	CL0184
TRINITY_DN14572_c4_g1::TRINITY_DN14572_c4_g1_i1::g.39016::m.39016	2	32,4	12,285	6,6911	PF01643.16	Acyl-ACP_TE	94,9	4,30E-27	CL0050
TRINITY_DN14576_c1_g5::TRINITY_DN14576_c1_g5_i7::g.39012::m.39012	6	63,8	15,115	191,86	PF00241.19	Cofilin_ADF	125,6	1,10E-36	CL0092
TRINITY_DN14578_c1_g1::TRINITY_DN14578_c1_g1_i1::g.39115::m.39115	8	27,3	42,886	42,285	PF00438.19	S-AdoMet_synt_N	142,4	5,40E-42	No_clan

TRINITY_DN14578_c1_g1::TRINITY_DN14578_c1_g1_i8::g.39125::m.39125	7	29,3	43,099	14,653	PF00438.19	S-AdoMet_synt_N	143,5	2,50E-42	No_clan
TRINITY_DN14578_c1_g3::TRINITY_DN14578_c1_g3_i1::g.39119::m.39119	4	15,6	44,159	-2	PF00438.19	S-AdoMet_synt_N	143,1	3,20E-42	No_clan
TRINITY_DN14585_c2_g1::TRINITY_DN14585_c2_g1_i7::g.39202::m.39202	3	23,5	21,013	8,0878	PF00657.21	Lipase_GDSL	82,8	3,00E-23	CL0264
TRINITY_DN14591_c4_g1::TRINITY_DN14591_c4_g1_i9::g.39216::m.39216	7	19,8	50,917	14,491	PF00464.18	SHMT	691	3,50E-208	CL0061
TRINITY_DN14591_c5_g1::TRINITY_DN14591_c5_g1_i3::g.39221::m.39221	1	7,1	27,558	2,1789	PF01553.20	Acyltransferase	61,4	6,30E-17	CL0228
TRINITY_DN14598_c1_g3::TRINITY_DN14598_c1_g3_i4::g.39295::m.39295	5	16,6	48,252	68,213	PF14829.5	GPAT_N	80,1	8,20E-23	No_clan
TRINITY_DN14600_c0_g1::TRINITY_DN14600_c0_g1_i7::g.38565::m.38565	13	31,1	60,69	23,052	PF00118.23	Cpn60_TCP1	540,4	3,40E-162	No_clan
TRINITY_DN14601_c2_g1::TRINITY_DN14601_c2_g1_i8::g.39287::m.39287	3	15,4	33,992	5,5508	PF03367.12	zf-ZPR1	181,3	1,10E-53	CL0167
TRINITY_DN14602_c3_g2::TRINITY_DN14602_c3_g2_i9::g.39596::m.39596	5	10	60,091	20,151	PF00501.27	AMP-binding	324	1,10E-96	CL0378
TRINITY_DN14603_c3_g1::TRINITY_DN14603_c3_g1_i1::g.39490::m.39490	6	7,6	113,27	8,5339	PF00004.28	AAA	123,3	7,60E-36	CL0023
TRINITY_DN14612_c0_g1::TRINITY_DN14612_c0_g1_i2::g.39550::m.39550	6	18	48,152	11,663	PF16656.4	Pur_ac_phosph_N	65,9	3,40E-18	CL0159
TRINITY_DN14617_c1_g1::TRINITY_DN14617_c1_g1_i9::g.39676::m.39676	2	5,9	52,008	3,2295	PF12899.6	Glyco_hydro_100	588,3	7,20E-177	CL0059
TRINITY_DN14624_c0_g1::TRINITY_DN14624_c0_g1_i4::g.39690::m.39690	1	4,8	24,532	4,7784	PF00885.18	DMRL_synthase	168,5	6,80E-50	No_clan
TRINITY_DN14626_c0_g2::TRINITY_DN14626_c0_g2_i6::g.39817::m.39817	1	4,9	26,909	2,0049	PF12796.6	Ank_2	68,2	6,60E-19	CL0465
TRINITY_DN14629_c0_g3::TRINITY_DN14629_c0_g3_i2::g.40344::m.40344	1	8,5	17,656	2,1641					
TRINITY_DN14630_c1_g1::TRINITY_DN14630_c1_g1_i1::g.39822::m.39822	4	21,3	27,797	19,838	PF00025.20	Arf	218,4	4,00E-65	CL0023
TRINITY_DN14630_c2_g8::TRINITY_DN14630_c2_g8_i1::g.39829::m.39829	4	28,6	19,829	1,9775	PF00025.20	Arf	210,7	9,70E-63	CL0023
TRINITY_DN14635_c2_g1::TRINITY_DN14635_c2_g1_i1::g.39353::m.39353	8	19,5	61,738	74,099	PF10255.8	Paf67	496,4	5,80E-149	CL0020
TRINITY_DN14645_c3_g1::TRINITY_DN14645_c3_g1_i7::g.39449::m.39449	5	8,3	84,977	13,77	PF00153.26	Mito_carr	42,1	5,60E-11	No_clan
TRINITY_DN14648_c0_g1::TRINITY_DN14648_c0_g1_i1::g.39924::m.39924	25	42,8	83,44	323,31	PF00933.20	Glyco_hydro_3	127,1	8,30E-37	CL0058

TRINITY_DN14649_c1_g6::TRINITY_DN14649_c1_g6_i3::g.39965::m.39965	3	17,9	24,519	11,917	PF00406.21	ADK	198,6	5,20E-59	CL0023
TRINITY_DN14654_c1_g1::TRINITY_DN14654_c1_g1_i1::g.40157::m.40157	4	7,2	72,461	6,1064	PF02696.13	UPF0061	441,9	2,50E-132	No_clan
TRINITY_DN14656_c1_g3::TRINITY_DN14656_c1_g3_i2::g.40036::m.40036	4	5,1	117,65	8,0468	PF00999.20	Na_H_Exchanger	200,2	4,20E-59	CL0064
TRINITY_DN14658_c2_g1::TRINITY_DN14658_c2_g1_i2::g.40152::m.40152	4	8,2	54,728	6,2604	PF05577.11	Peptidase_S28	259,1	6,50E-77	CL0028
TRINITY_DN14659_c0_g2::TRINITY_DN14659_c0_g2_i6::g.40081::m.40081	5	30,4	27,982	11,363	PF00227.25	Proteasome	102,9	1,40E-29	CL0052
TRINITY_DN14661_c1_g1::TRINITY_DN14661_c1_g1_i2::g.40114::m.40114	1	11,2	17,736	3,0017	PF02441.18	Flavoprotein	63,5	1,80E-17	No_clan
TRINITY_DN14669_c0_g2::TRINITY_DN14669_c0_g2_i2::g.40246::m.40246	1	1,8	88,919	1,9044	PF13087.5	AAA_12	195,5	6,80E-58	CL0023
TRINITY_DN14670_c0_g1::TRINITY_DN14670_c0_g1_i1::g.40393::m.40393	2	19,1	13,104	-2	PF00724.19	Oxidored_FMN	32,4	5,10E-08	CL0036
TRINITY_DN14670_c2_g3::TRINITY_DN14670_c2_g3_i4::g.40396::m.40396	1	7,5	13,636	15,246	PF04969.15	CS	40	5,60E-10	CL0190
TRINITY_DN14674_c1_g1::TRINITY_DN14674_c1_g1_i2::g.40399::m.40399	3	10,9	33,063	4,3301	PF01025.18	GrpE	88,4	3,70E-25	No_clan
TRINITY_DN14684_c2_g1::TRINITY_DN14684_c2_g1_i9::g.40676::m.40676	3	22,6	23,026	7,8974	PF01583.19	APS_kinase	238,5	2,60E-71	CL0023
TRINITY_DN14685_c0_g1::TRINITY_DN14685_c0_g1_i6::g.40758::m.40758	4	1,9	346,83	6,4064	PF06101.10	Vps62	41,8	4,10E-11	No_clan
TRINITY_DN14688_c0_g2::TRINITY_DN14688_c0_g2_i3::g.40630::m.40630	3	14,9	34,121	6,7979	PF00282.18	Pyridoxal_deC	33,7	1,50E-08	CL0061
TRINITY_DN14696_c0_g1::TRINITY_DN14696_c0_g1_i1::g.40665::m.40665	3	16,7	21,098	289,4	PF02298.16	Cu_bind_like	93,7	4,80E-27	CL0026
TRINITY_DN14696_c0_g1::TRINITY_DN14696_c0_g1_i2::g.40666::m.40666	3	18,3	21,583	12,384	PF02298.16	Cu_bind_like	90,7	4,00E-26	CL0026
TRINITY_DN14697_c1_g1::TRINITY_DN14697_c1_g1_i3::g.40725::m.40725	4	14,8	40,111	7,6594	PF01467.25	CTP_transf_like	29,1	8,90E-07	CL0039
TRINITY_DN14703_c2_g1::TRINITY_DN14703_c2_g1_i4::g.41069::m.41069	3	15,9	29,847	4,5801	PF01588.19	tRNA_bind	98,7	1,40E-28	CL0021
TRINITY_DN14704_c0_g1::TRINITY_DN14704_c0_g1_i5::g.40889::m.40889	5	14,6	41,663	28,814	PF03662.13	Glyco_hydro_79n	519,3	2,80E-156	CL0058
TRINITY_DN14704_c1_g3::TRINITY_DN14704_c1_g3_i1::g.40903::m.40903	3	8	60,348	7,3467	PF03662.13	Glyco_hydro_79n	516,9	1,40E-155	CL0058
TRINITY_DN14707_c0_g2::TRINITY_DN14707_c0_g2_i9::g.40985::m.40985	7	19,8	59,128	15,527	PF13943.5	WPP	123,6	3,20E-36	No_clan
TRINITY_DN14710_c1_g2::TRINITY_DN14710_c1_g2_i5::g.41059::m.41059	2	21	20,222	3,1768					

TRINITY_DN14710_c1_g4::TRINITY_DN14710_c1_g4_i3::g.41054::m.41054	9	15,6	89,781	20,761	PF05879.11	RHD3	992	1,50E-298	CL0023
TRINITY_DN14711_c0_g2::TRINITY_DN14711_c0_g2_i2::g.40961::m.40961	10	28,5	46,696	28,991	PF01145.24	Band_7	102,8	1,90E-29	CL0433
TRINITY_DN14711_c0_g4::TRINITY_DN14711_c0_g4_i1::g.40962::m.40962	2	6,6	41,425	-2	PF01145.24	Band_7	102,2	3,10E-29	CL0433
TRINITY_DN14717_c1_g1::TRINITY_DN14717_c1_g1_i9::g.42525::m.42525	6	30,1	23,987	9,0932	PF00071.21	Ras	222,7	1,70E-66	CL0023
TRINITY_DN14718_c0_g1::TRINITY_DN14718_c0_g1_i3::g.41289::m.41289	2	10,9	28,137	1,8575	PF00390.18	malic	221,2	8,20E-66	CL0603
TRINITY_DN14718_c0_g2::TRINITY_DN14718_c0_g2_i3::g.41293::m.41293	4	43,1	15,745	91,798	PF03949.14	Malic_M	153,1	7,50E-45	CL0063
TRINITY_DN14718_c0_g3::TRINITY_DN14718_c0_g3_i4::g.41295::m.41295	2	7,9	26,704	2,6047	PF03949.14	Malic_M	269,7	2,00E-80	CL0063
TRINITY_DN14723_c2_g4::TRINITY_DN14723_c2_g4_i2::g.41268::m.41268	6	19,3	43,55	10,855	PF05633.10	BPS1	532,4	6,10E-160	CL0133
TRINITY_DN14724_c2_g1::TRINITY_DN14724_c2_g1_i1::g.41239::m.41239	12	18,5	98,216	29,935	PF00696.27	AA_kinase	149,1	1,50E-43	No_clan
TRINITY_DN14724_c2_g3::TRINITY_DN14724_c2_g3_i6::g.41251::m.41251	1	3,5	46,449	2,8496	PF00571.27	CBS	21,9	0,00016	No_clan
TRINITY_DN14725_c0_g1::TRINITY_DN14725_c0_g1_i4::g.41213::m.41213	1	6,3	14,113	2,721	PF11595.7	DUF3245	47	3,30E-12	No_clan
TRINITY_DN14730_c2_g2::TRINITY_DN14730_c2_g2_i1::g.41382::m.41382	14	89,4	11,724	323,31					
TRINITY_DN14731_c0_g4::TRINITY_DN14731_c0_g4_i2::g.41282::m.41282	6	54,9	15,776	42,214	PF10584.8	Proteasome_A_N	53,2	1,50E-14	CL0052
TRINITY_DN14738_c2_g1::TRINITY_DN14738_c2_g1_i2::g.41499::m.41499	6	13,3	71,159	12,532	PF02776.17	TPP_enzyme_N	181,5	9,60E-54	CL0254
TRINITY_DN14741_c0_g1::TRINITY_DN14741_c0_g1_i2::g.41477::m.41477	4	7,9	65,328	28,418	PF12222.7	PNGaseA	384,6	5,40E-115	No_clan
TRINITY_DN14744_c0_g1::TRINITY_DN14744_c0_g1_i1::g.41504::m.41504	4	13,6	48,683	12,048	PF00085.19	Thioredoxin	90,2	6,40E-26	CL0172
TRINITY_DN14751_c0_g1::TRINITY_DN14751_c0_g1_i8::g.40814::m.40814	3	4,5	99,44	4,7964	PF04389.16	Peptidase_M28	122,1	2,10E-35	CL0035
TRINITY_DN14755_c2_g1::TRINITY_DN14755_c2_g1_i4::g.41671::m.41671	5	43,5	13,379	275,59	PF00107.25	ADH_zinc_N	37,6	1,70E-09	CL0063
TRINITY_DN14755_c2_g2::TRINITY_DN14755_c2_g2_i1::g.41670::m.41670	10	49,1	31,365	323,31	PF08240.11	ADH_N	101,9	1,60E-29	CL0296
TRINITY_DN14756_c11_g3::TRINITY_DN14756_c11_g3_i1::g.41922::m.41922	4	12,8	40,814	6,267	PF04043.14	PMEI	57,6	1,60E-15	No_clan
TRINITY_DN14757_c1_g1::TRINITY_DN14757_c1_g1_i7::g.41725::m.41725	2	10,7	45,684	3,7901					

TRINITY_DN14761_c1_g4::TRINITY_DN14761_c1_g4_i4::g.41839::m.41839	3	3,8	132,53	5,1554	PF00069.24	Pkinase	171,6	1,90E-50	CL0016
TRINITY_DN14763_c1_g1::TRINITY_DN14763_c1_g1_i5::g.41937::m.41937	2	4,6	48,024	2,4307	PF02671.20	PAH	62,3	3,20E-17	No_clan
TRINITY_DN14766_c7_g2::TRINITY_DN14766_c7_g2_i3::g.41862::m.41862	20	42	67,544	255,81	PF08323.10	Glyco_transf_5	250,5	1,60E-74	CL0113
TRINITY_DN14774_c0_g5::TRINITY_DN14774_c0_g5_i3::g.42116::m.42116	1	1,4	134,46	4,5161	PF10433.8	MMS1_N	568,6	9,50E-171	No_clan
TRINITY_DN14775_c0_g2::TRINITY_DN14775_c0_g2_i2::g.42036::m.42036	5	13,1	54,386	9,1211	PF00328.21	His_Phos_2	170,1	8,40E-50	CL0071
TRINITY_DN14776_c1_g1::TRINITY_DN14776_c1_g1_i2::g.42049::m.42049	31	71,5	54,52	323,31	PF10509.8	GalKase_gal_bdg	78,2	2,30E-22	CL0329
TRINITY_DN14777_c1_g1::TRINITY_DN14777_c1_g1_i9::g.42089::m.42089	5	15,6	53,423	10,484	PF00155.20	Aminotran_1_2	128,5	3,20E-37	CL0061
TRINITY_DN14777_c4_g4::TRINITY_DN14777_c4_g4_i3::g.42104::m.42104	1	1,3	83,685	18,375	PF00078.26	RVT_1	58,7	5,20E-16	CL0027
TRINITY_DN14781_c0_g1::TRINITY_DN14781_c0_g1_i21::g.42142::m.42142	5	11,3	56,537	16,668	PF00307.30	CH	60,8	1,10E-16	CL0188
TRINITY_DN14785_c0_g1::TRINITY_DN14785_c0_g1_i8::g.42289::m.42289	2	13,5	36,921	10,523	PF00085.19	Thioredoxin	55,9	3,00E-15	CL0172
TRINITY_DN14785_c0_g1::TRINITY_DN14785_c0_g1_i6::g.42288::m.42288	1	21,3	12,325	5,2731					
TRINITY_DN14786_c1_g2::TRINITY_DN14786_c1_g2_i1::g.42235::m.42235	1	0,8	284,34	2,1038	PF14237.5	DUF4339	44,7	7,60E-12	No_clan
TRINITY_DN14788_c0_g1::TRINITY_DN14788_c0_g1_i1::g.42248::m.42248	2	33,3	11,471	3,9517					
TRINITY_DN14788_c0_g2::TRINITY_DN14788_c0_g2_i4::g.42257::m.42257	4	20,7	22,249	6,5303	PF13472.5	Lipase_GDSL_2	66	5,20E-18	CL0264
TRINITY_DN14788_c0_g4::TRINITY_DN14788_c0_g4_i2::g.42252::m.42252	10	20,2	76,666	23,517	PF02824.20	TGS	53,8	1,40E-14	CL0072
TRINITY_DN14799_c0_g2::TRINITY_DN14799_c0_g2_i3::g.42387::m.42387	6	27,5	33,343	11,074	PF04278.11	Tic22	238,5	6,40E-71	No_clan
TRINITY_DN14801_c0_g1::TRINITY_DN14801_c0_g1_i4::g.42400::m.42400	3	17,2	36,962	3,5333	PF08700.10	Vps51	88,5	2,20E-25	CL0295
TRINITY_DN14802_c2_g1::TRINITY_DN14802_c2_g1_i3::g.42628::m.42628	1	4,9	30,953	2,4339	PF00297.21	Ribosomal_L3	58,1	6,90E-16	CL0575
TRINITY_DN14803_c0_g1::TRINITY_DN14803_c0_g1_i4::g.42638::m.42638	4	12,8	41,431	6,1313	PF00581.19	Rhodanese	53,3	3,10E-14	CL0031
TRINITY_DN14810_c0_g2::TRINITY_DN14810_c0_g2_i2::g.42832::m.42832	4	31,3	17,739	25,549	PF03946.13	Ribosomal_L11_N	82,6	1,10E-23	No_clan
TRINITY_DN14814_c1_g3::TRINITY_DN14814_c1_g3_i3::g.42810::m.42810	7	26,1	40,983	50,259	PF01118.23	Semialdhyde_dh	110,1	7,90E-32	CL0063

TRINITY_DN14828_c0_g3::TRINITY_DN14828_c0_g3_i7::g.43009::m.43009	2	9,7	37,505	4,5868	PF16656.4	Pur_ac_phosph_N	50	3,20E-13	CL0159
TRINITY_DN14830_c5_g1::TRINITY_DN14830_c5_g1_i9::g.42943::m.42943	3	9	51,966	2,9323	PF00856.27	SET	35,9	8,80E-09	No_clan
TRINITY_DN14831_c2_g1::TRINITY_DN14831_c2_g1_i4::g.42949::m.42949	8	44,3	21,791	323,31	PF00635.25	Motile_Sperm	98,9	1,30E-28	CL0556
TRINITY_DN14833_c0_g2::TRINITY_DN14833_c0_g2_i2::g.42977::m.42977	2	6,8	44,235	3,3265	PF00206.19	Lyase_1	175,9	1,20E-51	No_clan
TRINITY_DN14840_c3_g1::TRINITY_DN14840_c3_g1_i19::g.43227::m.43227	1	10,2	13,586	2,0405	PF01869.19	BcrAD_BadFG	45,2	7,60E-12	CL0108
TRINITY_DN14845_c0_g2::TRINITY_DN14845_c0_g2_i5::g.43176::m.43176	17	44,6	54,136	78,819	PF02874.22	ATP-synt_ab_N	51,7	8,80E-14	CL0275
TRINITY_DN14858_c0_g1::TRINITY_DN14858_c0_g1_i1::g.43399::m.43399	21	24,8	128,27	109,9	PF00899.20	ThiF	112,6	1,80E-32	CL0063
TRINITY_DN14858_c0_g5::TRINITY_DN14858_c0_g5_i1::g.43408::m.43408	9	11,1	119,86	-2	PF00899.20	ThiF	102,1	2,70E-29	CL0063
TRINITY_DN14860_c0_g1::TRINITY_DN14860_c0_g1_i1::g.43455::m.43455	1	2,9	75,775	2,9411	PF00324.20	AA_permease	132,2	1,90E-38	CL0062
TRINITY_DN14860_c0_g2::TRINITY_DN14860_c0_g2_i3::g.43462::m.43462	9	9,3	130,74	16,444	PF14833.5	NAD_binding_11	75,8	3,10E-21	CL0106
TRINITY_DN14862_c0_g2::TRINITY_DN14862_c0_g2_i3::g.43396::m.43396	3	26,1	22,181	6,077	PF04674.11	Phi_1	252,8	3,40E-75	No_clan
TRINITY_DN14869_c3_g5::TRINITY_DN14869_c3_g5_i3::g.43830::m.43830	8	53,4	15,05	29,156	PF00012.19	HSP70	62,8	1,60E-17	CL0108
TRINITY_DN14870_c0_g1::TRINITY_DN14870_c0_g1_i2::g.43479::m.43479	7	44,8	24,542	16,584	PF00227.25	Proteasome	114,7	3,10E-33	CL0052
TRINITY_DN14872_c2_g1::TRINITY_DN14872_c2_g1_i7::g.43673::m.43673	5	12,8	57,907	52,103	PF01487.14	DHquinase_I	235	1,10E-69	CL0036
TRINITY_DN14872_c2_g2::TRINITY_DN14872_c2_g2_i2::g.43670::m.43670	29	23,1	164,82	90,883	PF01326.18	PPDK_N	64,4	9,40E-18	CL0179
TRINITY_DN14875_c0_g2::TRINITY_DN14875_c0_g2_i7::g.43614::m.43614	9	26,1	50,976	16,141	PF00009.26	GTP_EFTU	88,2	4,60E-25	CL0023
TRINITY_DN14877_c0_g1::TRINITY_DN14877_c0_g1_i9::g.43584::m.43584	8	36	28,687	204,78	PF00076.21	RRM_1	37,1	2,00E-09	CL0221
TRINITY_DN14879_c3_g1::TRINITY_DN14879_c3_g1_i2::g.43728::m.43728	8	19,5	61,986	6,3214	PF01749.19	IBB	79,2	2,00E-22	CL0020
TRINITY_DN14879_c3_g3::TRINITY_DN14879_c3_g3_i2::g.43725::m.43725	10	24,9	58,611	37,374	PF01749.19	IBB	83,4	1,00E-23	CL0020
TRINITY_DN14879_c3_g4::TRINITY_DN14879_c3_g4_i1::g.43729::m.43729	7	45,4	23,887	90,609	PF00071.21	Ras	209,9	1,50E-62	CL0023
TRINITY_DN14880_c2_g1::TRINITY_DN14880_c2_g1_i5::g.43756::m.43756	2	14,8	20,03	3,8507					
TRINITY_DN14880_c3_g1::TRINITY_DN14880_c3_g1_i7::g.43762::m.43762	2	5,8	40,636	2,621	PF01172.17	SBDS	95,1	1,80E-27	No_clan

TRINITY_DN14881_c0_g1::TRINITY_DN14881_c0_g1_i4::g.43780::m.43780	2	5,5	50,659	3,681	PF00850.18	Hist_deacetyl	268,8	6,70E-80	CL0302
TRINITY_DN14887_c2_g3::TRINITY_DN14887_c2_g3_i1::g.43865::m.43865	2	6,5	47,723	2,1374	PF00485.17	PRK	88	6,10E-25	CL0023
TRINITY_DN14887_c2_g4::TRINITY_DN14887_c2_g4_i1::g.43866::m.43866	3	11,1	39,369	10,749					
TRINITY_DN14897_c3_g5::TRINITY_DN14897_c3_g5_i1::g.43938::m.43938	3	22,5	15,346	4,7947	PF00125.23	Histone	80,3	1,50E-22	CL0012
TRINITY_DN14898_c0_g1::TRINITY_DN14898_c0_g1_i2::g.43888::m.43888	2	7,4	38,348	3,5789	PF00106.24	adh_short	144,5	2,50E-42	CL0063
TRINITY_DN14898_c0_g2::TRINITY_DN14898_c0_g2_i1::g.43887::m.43887	1	7,3	22,32	5,9473	PF00107.25	ADH_zinc_N	101,3	3,40E-29	CL0063
TRINITY_DN14909_c1_g1::TRINITY_DN14909_c1_g1_i3::g.44168::m.44168	10	11,4	117,4	17,126	PF08700.10	Vps51	59,2	2,90E-16	CL0295
TRINITY_DN14909_c1_g2::TRINITY_DN14909_c1_g2_i4::g.44177::m.44177	24	34,7	94,434	264,7	PF02518.25	HATPase_c	47,8	1,70E-12	CL0025
TRINITY_DN14909_c1_g5::TRINITY_DN14909_c1_g5_i1::g.44180::m.44180	8	10,1	112,01	13,447	PF16940.4	Tic110	966,7	3,40E-291	No_clan
TRINITY_DN14912_c1_g1::TRINITY_DN14912_c1_g1_i4::g.44268::m.44268	5	23	28,17	28,92	PF13344.5	Hydrolase_6	75,6	2,50E-21	CL0137
TRINITY_DN14916_c3_g2::TRINITY_DN14916_c3_g2_i1::g.44503::m.44503	2	9,4	35,007	3,3038	PF01398.20	JAB	102,5	1,20E-29	CL0366
TRINITY_DN14920_c0_g1::TRINITY_DN14920_c0_g1_i8::g.44465::m.44465	7	20,1	37,474	43,503	PF00316.19	FBPase	261	4,70E-78	CL0171
TRINITY_DN14922_c2_g1::TRINITY_DN14922_c2_g1_i5::g.44553::m.44553	3	1,7	293,07	8,0502	PF10347.8	Fmp27_GFWDK	24,9	1,70E-05	No_clan
TRINITY_DN14927_c1_g1::TRINITY_DN14927_c1_g1_i11::g.44438::m.44438	3	23,6	19,438	7,8867					
TRINITY_DN14931_c0_g1::TRINITY_DN14931_c0_g1_i6::g.44458::m.44458	2	3,6	93,325	2,9535					
TRINITY_DN14932_c2_g1::TRINITY_DN14932_c2_g1_i5::g.44480::m.44480	1	7,5	11,477	1,945	PF00724.19	Oxidored_FMN	79,5	2,50E-22	CL0036
TRINITY_DN14933_c0_g2::TRINITY_DN14933_c0_g2_i3::g.44460::m.44460	6	46,7	18,357	12,937	PF06172.10	Cupin_5	147,5	2,20E-43	CL0029
TRINITY_DN14937_c1_g1::TRINITY_DN14937_c1_g1_i10::g.44580::m.44580	1	11,8	20,065	7,1945	PF00182.18	Glyco_hydro_19	333,9	5,60E-100	CL0037
TRINITY_DN14938_c0_g1::TRINITY_DN14938_c0_g1_i5::g.44776::m.44776	4	15,2	30,189	11,374	PF01873.16	eIF-5_eIF-2B	134,8	1,10E-39	No_clan
TRINITY_DN14939_c1_g2::TRINITY_DN14939_c1_g2_i3::g.44685::m.44685	5	36	22,054	108,52	PF00657.21	Lipase_GDSL	32,4	8,10E-08	CL0264
TRINITY_DN14939_c1_g3::TRINITY_DN14939_c1_g3_i3::g.44686::m.44686	3	13,7	34,305	4,9429	PF05368.12	NmrA	249,5	2,80E-74	CL0063

TRINITY_DN14942_c0_g1::TRINITY_DN14942_c0_g1_i6::g.44624::m.44624	1	1,5	91,043	2,0791	PF10536.8	PMD	336,7	1,50E-100	No_clan
TRINITY_DN14942_c2_g1::TRINITY_DN14942_c2_g1_i4::g.44640::m.44640	4	40,8	14,098	9,2964	PF02575.15	YbaB_DNA_bd	62,7	2,70E-17	No_clan
TRINITY_DN14948_c0_g1::TRINITY_DN14948_c0_g1_i2::g.43967::m.43967	2	5,7	60,728	4,693	PF14416.5	PMR5N	53,9	1,50E-14	No_clan
TRINITY_DN14955_c4_g2::TRINITY_DN14955_c4_g2_i6::g.44900::m.44900	2	11,6	26,939	4,9451	PF13202.5	EF-hand_5	18,9	0,00069	CL0220
TRINITY_DN14957_c1_g1::TRINITY_DN14957_c1_g1_i3::g.44723::m.44723	3	18,3	26,03	7,4304	PF08777.10	RRM_3	71	6,40E-20	CL0221
TRINITY_DN14965_c0_g1::TRINITY_DN14965_c0_g1_i3::g.45244::m.45244	9	19,4	66,842	48,779	PF02878.15	PGM_PMM_I	90,9	5,10E-26	No_clan
TRINITY_DN14967_c2_g1::TRINITY_DN14967_c2_g1_i8::g.44945::m.44945	3	15	28,265	7,1247	PF02453.16	Reticulon	198,3	6,20E-59	No_clan
TRINITY_DN14970_c1_g1::TRINITY_DN14970_c1_g1_i3::g.45037::m.45037	21	43,3	61,816	99,55	PF00118.23	Cpn60_TCP1	291,7	8,70E-87	No_clan
TRINITY_DN14971_c0_g1::TRINITY_DN14971_c0_g1_i2::g.44966::m.44966	3	11,9	36,087	17,442	PF00596.20	Aldolase_II	30,4	3,10E-07	No_clan
TRINITY_DN14972_c1_g2::TRINITY_DN14972_c1_g2_i4::g.44982::m.44982	8	51,4	23,579	249,52	PF02338.18	OTU	30,1	5,20E-07	CL0125
TRINITY_DN14973_c1_g2::TRINITY_DN14973_c1_g2_i1::g.45015::m.45015	5	30,7	18,674	11,448	PF04716.13	ETC_C1_NDUFA5	89,8	6,70E-26	No_clan
TRINITY_DN14977_c0_g1::TRINITY_DN14977_c0_g1_i14::g.45080::m.45080	1	6,6	21,073	2,8757	PF00149.27	Metallophos	36,4	7,00E-09	CL0163
TRINITY_DN14979_c0_g1::TRINITY_DN14979_c0_g1_i9::g.45197::m.45197	14	27	71,561	1,9596	PF00004.28	AAA	161,5	1,30E-47	CL0023
TRINITY_DN14982_c0_g1::TRINITY_DN14982_c0_g1_i9::g.45222::m.45222	2	8,5	38,544	5,2425	PF09177.10	Syntaxin-6_N	37,5	2,40E-09	No_clan
TRINITY_DN14985_c3_g2::TRINITY_DN14985_c3_g2_i1::g.45232::m.45232	3	6,3	86,575	8,6835	PF02516.13	STT3	348,6	6,00E-104	CL0111
TRINITY_DN14986_c2_g1::TRINITY_DN14986_c2_g1_i1::g.45365::m.45365	3	21,9	19,835	164,78	PF06201.12	PITH	139,7	7,90E-41	CL0202
TRINITY_DN14986_c4_g1::TRINITY_DN14986_c4_g1_i9::g.45372::m.45372	16	33,8	53,885	323,31	PF00370.20	FGGY_N	61,8	6,40E-17	CL0108
TRINITY_DN14993_c0_g1::TRINITY_DN14993_c0_g1_i2::g.45400::m.45400	1	4,5	40,73	2,5628	PF14802.5	TMEM192	53,3	1,90E-14	No_clan
TRINITY_DN15001_c1_g2::TRINITY_DN15001_c1_g2_i1::g.45482::m.45482	2	19,2	14,239	117,7	PF00076.21	RRM_1	27,2	2,30E-06	CL0221
TRINITY_DN15004_c1_g1::TRINITY_DN15004_c1_g1_i9::g.45691::m.45691	18	38	67,714	103,48	PF00365.19	PFK	95,5	3,30E-27	CL0240
TRINITY_DN15008_c0_g1::TRINITY_DN15008_c0_g1_i3::g.45737::m.45737	18	21,5	116,46	94,713	PF00690.25	Cation_ATPase_N	61,4	4,50E-17	No_clan

TRINITY_DN15008_c0_g2::TRINITY_DN15008_c0_g2_i1::g.45732::m.45732	10	12,2	117,02	5,3976	PF00690.25	Cation_ATPase_N	49,8	1,90E-13	No_clan
TRINITY_DN15008_c0_g3::TRINITY_DN15008_c0_g3_i2::g.45738::m.45738	11	22,2	77,271	13,218	PF00690.25	Cation_ATPase_N	52,1	3,60E-14	No_clan
TRINITY_DN15010_c0_g3::TRINITY_DN15010_c0_g3_i5::g.45655::m.45655	21	61,5	52,922	323,31	PF05694.10	SBP56	725,8	1,70E-218	CL0186
TRINITY_DN15011_c4_g2::TRINITY_DN15011_c4_g2_i4::g.45809::m.45809	2	11,5	24,517	3,6938	PF07714.16	Pkinase_Tyr	44,2	1,30E-11	CL0016
TRINITY_DN15012_c0_g1::TRINITY_DN15012_c0_g1_i2::g.45660::m.45660	2	10,1	30,087	3,2663	PF02894.16	GFO_IDH_MocA_C	23,8	3,20E-05	CL0218
TRINITY_DN15019_c3_g2::TRINITY_DN15019_c3_g2_i1::g.45833::m.45833	1	4,6	35,266	-2	PF12776.6	Myb_DNA-bind_3	82	4,30E-23	CL0123
TRINITY_DN15025_c0_g1::TRINITY_DN15025_c0_g1_i1::g.45918::m.45918	25	67,5	45,237	323,31	PF03952.15	Enolase_N	142	1,10E-41	CL0227
TRINITY_DN15025_c0_g1::TRINITY_DN15025_c0_g1_i8::g.45925::m.45925	23	64,9	48,346	323,31	PF03952.15	Enolase_N	177,9	8,70E-53	CL0227
TRINITY_DN15027_c0_g1::TRINITY_DN15027_c0_g1_i5::g.45870::m.45870	2	5,6	51,928	3,2367	PF01239.21	PPTA	24,1	2,00E-05	CL0020
TRINITY_DN15029_c2_g1::TRINITY_DN15029_c2_g1_i2::g.45973::m.45973	4	32,4	11,694	42,111	PF11976.7	Rad60-SLD	86,4	7,90E-25	CL0072
TRINITY_DN15029_c4_g1::TRINITY_DN15029_c4_g1_i3::g.45979::m.45979	2	15,9	17,662	10,669	PF05071.15	NDUFA12	89,8	1,50E-25	No_clan
TRINITY_DN15029_c5_g6::TRINITY_DN15029_c5_g6_i4::g.46001::m.46001	2	23,2	24,33	3,9525	PF03647.12	Tmemb_14	74,2	9,90E-21	No_clan
TRINITY_DN15030_c2_g10::TRINITY_DN15030_c2_g10_i10::g.46047::m.46047	2	3,3	95,085	2,9755	PF04841.12	Vps16_N	256,5	3,40E-76	No_clan
TRINITY_DN15036_c1_g1::TRINITY_DN15036_c1_g1_i9::g.46235::m.46235	4	24,1	16,157	271,82	PF00188.25	CAP	76,1	3,80E-21	CL0659
TRINITY_DN15045_c2_g1::TRINITY_DN15045_c2_g1_i7::g.46215::m.46215	6	18,2	51,578	20,701	PF03224.13	V-ATPase_H_N	264,9	8,90E-79	CL0020
TRINITY_DN15046_c3_g2::TRINITY_DN15046_c3_g2_i6::g.45963::m.45963	2	17,3	12,803	3,0278					
TRINITY_DN15060_c1_g1::TRINITY_DN15060_c1_g1_i6::g.46413::m.46413	2	3,6	68,662	3,3102	PF07714.16	Pkinase_Tyr	105,6	2,40E-30	CL0016
TRINITY_DN15066_c0_g1::TRINITY_DN15066_c0_g1_i4::g.46431::m.46431	4	9,5	54,131	2,7419	PF00485.17	PRK	167,3	3,10E-49	CL0023
TRINITY_DN15069_c0_g1::TRINITY_DN15069_c0_g1_i1::g.46535::m.46535	8	64,8	21,844	29,874	PF02115.16	Rho_GDI	267,2	7,20E-80	No_clan
TRINITY_DN15069_c1_g1::TRINITY_DN15069_c1_g1_i6::g.46552::m.46552	2	31	12,798	11,368	PF02115.16	Rho_GDI	53,7	2,00E-14	No_clan
TRINITY_DN15072_c0_g1::TRINITY_DN15072_c0_g1_i2::g.46447::m.46447	5	27,6	32,737	13,888	PF00400.31	WD40	16,9	0,0081	CL0186

TRINITY_DN15082_c1_g1::TRINITY_DN15082_c1_g1_i1::g.46708::m.46708	4	7,6	65,225	5,1006	PF07732.14	Cu-oxidase_3	124,8	1,60E-36	CL0026
TRINITY_DN15082_c2_g5::TRINITY_DN15082_c2_g5_i1::g.46709::m.46709	5	21,5	26,869	301,9	PF14543.5	TAXi_N	99,6	2,20E-28	CL0129
TRINITY_DN15085_c0_g2::TRINITY_DN15085_c0_g2_i3::g.46604::m.46604	5	33,6	14,867	68,524					
TRINITY_DN15089_c0_g1::TRINITY_DN15089_c0_g1_i2::g.46688::m.46688	12	32,3	59,234	29,507	PF00118.23	Cpn60_TCP1	559,3	6,20E-168	No_clan
TRINITY_DN15090_c0_g1::TRINITY_DN15090_c0_g1_i3::g.46611::m.46611	5	5,1	124,46	8,4181	PF13365.5	Trypsin_2	65,1	1,20E-17	CL0124
TRINITY_DN15100_c0_g1::TRINITY_DN15100_c0_g1_i1::g.45506::m.45506	2	9,3	42,632	4,3604					
TRINITY_DN15100_c3_g1::TRINITY_DN15100_c3_g1_i6::g.45535::m.45535	1	6,7	16,952	1,9843	PF01643.16	Acyl-ACP_TE	126,3	1,20E-36	CL0050
TRINITY_DN15101_c4_g1::TRINITY_DN15101_c4_g1_i4::g.45560::m.45560	4	10,3	55,603	2,7212	PF01399.26	PCI	69,4	3,00E-19	CL0123
TRINITY_DN15108_c2_g1::TRINITY_DN15108_c2_g1_i5::g.47064::m.47064	17	27,2	85,611	62,362	PF03255.13	ACCA	181,9	5,40E-54	CL0127
TRINITY_DN15110_c1_g1::TRINITY_DN15110_c1_g1_i4::g.47001::m.47001	1	3,7	38,372	2,6908	PF08240.11	ADH_N	91,4	2,80E-26	CL0296
TRINITY_DN15113_c1_g1::TRINITY_DN15113_c1_g1_i9::g.47525::m.47525	2	14,3	16,371	2,1775	PF02943.14	FeThRed_B	140,4	1,80E-41	No_clan
TRINITY_DN15115_c0_g4::TRINITY_DN15115_c0_g4_i3::g.47102::m.47102	2	8,5	35,663	2,7007	PF00561.19	Abhydrolase_1	91,9	4,50E-26	CL0028
TRINITY_DN15119_c0_g1::TRINITY_DN15119_c0_g1_i1::g.47105::m.47105	2	5,1	48,975	2,5652	PF01264.20	Chorismate_synt	465,7	5,00E-140	No_clan
TRINITY_DN15120_c1_g1::TRINITY_DN15120_c1_g1_i1::g.47172::m.47172	9	35,2	34,563	148,52	PF13460.5	NAD_binding_10	117,8	4,60E-34	CL0063
TRINITY_DN15121_c0_g1::TRINITY_DN15121_c0_g1_i1::g.47196::m.47196	2	2,5	81,473	3,1361	PF12755.6	Vac14_Fab1_bd	139,9	2,70E-41	CL0020
TRINITY_DN15127_c0_g2::TRINITY_DN15127_c0_g2_i1::g.47217::m.47217	6	7,9	103,79	10,025	PF01074.21	Glyco_hydro_38	189,6	7,00E-56	CL0158
TRINITY_DN15130_c6_g1::TRINITY_DN15130_c6_g1_i3::g.47299::m.47299	1	3,9	33,095	3,0688	PF03909.16	BSD	32,5	6,00E-08	No_clan
TRINITY_DN15130_c6_g3::TRINITY_DN15130_c6_g3_i3::g.47307::m.47307	8	28,7	38,559	17,946	PF00481.20	PP2C	222,3	7,50E-66	CL0238
TRINITY_DN15131_c1_g3::TRINITY_DN15131_c1_g3_i1::g.47487::m.47487	2	20,1	16,931	14,299					
TRINITY_DN15133_c0_g1::TRINITY_DN15133_c0_g1_i1::g.47252::m.47252	9	35,9	44,729	60,639	PF00561.19	Abhydrolase_1	98,1	6,00E-28	CL0028
TRINITY_DN15139_c1_g2::TRINITY_DN15139_c1_g2_i1::g.47376::m.47376	2	2,7	76,19	1,9533	PF00139.18	Lectin_legB	227,3	1,90E-67	CL0004

TRINITY_DN15141_c1_g1::TRINITY_DN15141_c1_g1_i2::g.47502::m.47502	3	9,5	29,615	3,1723	PF00227.25	Proteasome	159,2	7,60E-47	CL0052
TRINITY_DN15141_c2_g2::TRINITY_DN15141_c2_g2_i7::g.47512::m.47512	1	14,2	11,982	4,6447					
TRINITY_DN15142_c0_g1::TRINITY_DN15142_c0_g1_i16::g.47469::m.47469	2	20,1	22,898	9,0724	PF00933.20	Glyco_hydro_3	155,6	1,80E-45	CL0058
TRINITY_DN15145_c0_g1::TRINITY_DN15145_c0_g1_i10::g.46819::m.46819	1	14	13,412	2,956					
TRINITY_DN15145_c0_g2::TRINITY_DN15145_c0_g2_i2::g.46817::m.46817	3	9	53,217	6,8044	PF00561.19	Abhydrolase_1	38,7	7,90E-10	CL0028
TRINITY_DN15149_c3_g1::TRINITY_DN15149_c3_g1_i3::g.47576::m.47576	7	19,5	53,884	23,324	PF00005.26	ABC_tran	43,8	3,10E-11	CL0023
TRINITY_DN15165_c0_g1::TRINITY_DN15165_c0_g1_i4::g.47616::m.47616	7	50,2	20,522	27,826	PF04927.11	SMP	80,7	7,50E-23	No_clan
TRINITY_DN15166_c0_g1::TRINITY_DN15166_c0_g1_i7::g.47733::m.47733	4	18,9	28,694	6,7217	PF05648.13	PEX11	144,4	3,20E-42	No_clan
TRINITY_DN15169_c1_g1::TRINITY_DN15169_c1_g1_i14::g.47860::m.47860	2	16	25,613	4,262	PF01593.23	Amino_oxidase	119,6	2,00E-34	CL0063
TRINITY_DN15177_c0_g1::TRINITY_DN15177_c0_g1_i2::g.47833::m.47833	8	23,4	42,188	16,067	PF00202.20	Aminotran_3	336,8	1,30E-100	CL0061
TRINITY_DN15178_c0_g1::TRINITY_DN15178_c0_g1_i16::g.47873::m.47873	3	9	36,619	4,6681	PF16486.4	ArgoN	111,1	5,90E-32	No_clan
TRINITY_DN15180_c0_g2::TRINITY_DN15180_c0_g2_i2::g.47796::m.47796	5	22,1	40,325	19,605					
TRINITY_DN15183_c1_g3::TRINITY_DN15183_c1_g3_i4::g.48285::m.48285	2	7,3	32,295	24,801	PF04601.12	DUF569	244,6	2,00E-73	CL0066
TRINITY_DN15187_c1_g1::TRINITY_DN15187_c1_g1_i9::g.47932::m.47932	2	24,2	13,247	21,22	PF00076.21	RRM_1	64,4	5,90E-18	CL0221
TRINITY_DN15194_c1_g2::TRINITY_DN15194_c1_g2_i1::g.48344::m.48344	8	60,3	12,899	99,903	PF00085.19	Thioredoxin	103,4	4,90E-30	CL0172
TRINITY_DN15198_c1_g2::TRINITY_DN15198_c1_g2_i7::g.48337::m.48337	6	22,3	38,873	32,61	PF11891.7	RETICULATA-like	218,1	6,50E-65	No_clan
TRINITY_DN15198_c1_g3::TRINITY_DN15198_c1_g3_i1::g.48326::m.48326	1	4,6	52,625	4,8531	PF12265.7	CAF1C_H4-bd	65,7	3,00E-18	No_clan
TRINITY_DN15203_c1_g1::TRINITY_DN15203_c1_g1_i19::g.48562::m.48562	1	8,2	16,891	2,0854	PF03398.13	Ist1	103,6	9,10E-30	No_clan
TRINITY_DN15203_c1_g1::TRINITY_DN15203_c1_g1_i8::g.48552::m.48552	6	16,6	48,988	14,657	PF16363.4	GDP_Man_Dehyd	204,5	2,50E-60	CL0063
TRINITY_DN15203_c1_g4::TRINITY_DN15203_c1_g4_i2::g.48560::m.48560	3	9,3	48,3	5,1111	PF16363.4	GDP_Man_Dehyd	210,4	4,10E-62	CL0063
TRINITY_DN15205_c1_g1::TRINITY_DN15205_c1_g1_i3::g.48499::m.48499	2	17,6	19,691	8,8414	PF00112.22	Peptidase_C1	182,8	8,90E-54	CL0125

TRINITY_DN15208_c2_g1::TRINITY_DN15208_c2_g1_i1::g.48542::m.48542	6	14,8	59,094	10,872	PF00224.20	PK	392,3	1,50E-117	CL0151
TRINITY_DN15211_c1_g1::TRINITY_DN15211_c1_g1_i7::g.48526::m.48526	6	35,5	27,53	128,37	PF01048.19	PNP_UDP_1	83,7	1,00E-23	CL0408
TRINITY_DN15217_c1_g2::TRINITY_DN15217_c1_g2_i9::g.48873::m.48873	2	7,5	33,912	2,8159	PF03141.15	Methyltransf_29	187,1	4,40E-55	CL0063
TRINITY_DN15221_c1_g3::TRINITY_DN15221_c1_g3_i1::g.48708::m.48708	5	11,3	66,771	7,6993	PF16499.4	Melibiase_2	46,1	3,30E-12	CL0058
TRINITY_DN15222_c4_g2::TRINITY_DN15222_c4_g2_i2::g.48684::m.48684	4	16,2	38,01	88,656	PF04756.12	OST3_OST6	263,4	2,30E-78	CL0172
TRINITY_DN15232_c2_g1::TRINITY_DN15232_c2_g1_i5::g.49050::m.49050	4	29,3	16,06	10,674	PF08069.11	Ribosomal_S13_N	108,3	1,30E-31	No_clan
TRINITY_DN15236_c1_g2::TRINITY_DN15236_c1_g2_i4::g.49063::m.49063	7	27,9	45,956	24,121	PF00400.31	WD40	17,7	0,0046	CL0186
TRINITY_DN15250_c0_g1::TRINITY_DN15250_c0_g1_i1::g.49205::m.49205	4	22,3	34,027	10,01	PF00795.21	CN_hydrolase	134,8	3,00E-39	No_clan
TRINITY_DN15257_c0_g2::TRINITY_DN15257_c0_g2_i2::g.49306::m.49306	1	4,4	30,694	1,9017	PF00583.24	Acetyltransf_1	56,7	2,30E-15	CL0257
TRINITY_DN15261_c0_g1::TRINITY_DN15261_c0_g1_i6::g.49258::m.49258	12	34,5	47,943	130,96	PF00085.19	Thioredoxin	101	2,80E-29	CL0172
TRINITY_DN15263_c1_g2::TRINITY_DN15263_c1_g2_i4::g.49263::m.49263	3	8,1	50,046	4,2685	PF00201.17	UDPGT	95,7	2,60E-27	CL0113
TRINITY_DN15264_c2_g1::TRINITY_DN15264_c2_g1_i9::g.49352::m.49352	6	37,1	14,93	36,583					
TRINITY_DN15264_c3_g1::TRINITY_DN15264_c3_g1_i8::g.49356::m.49356	3	33,6	15,82	5,288	PF13649.5	Methyltransf_25	55,8	5,40E-15	CL0063
TRINITY_DN15264_c3_g2::TRINITY_DN15264_c3_g2_i3::g.49355::m.49355	3	22,5	17,184	3,7738	PF06803.11	DUF1232	34,1	1,60E-08	No_clan
TRINITY_DN15274_c1_g2::TRINITY_DN15274_c1_g2_i1::g.49397::m.49397	3	44,6	12,563	5,7416					
TRINITY_DN15276_c1_g1::TRINITY_DN15276_c1_g1_i6::g.49461::m.49461	8	37,8	33,457	84,911	PF00400.31	WD40	21,5	0,00029	CL0186
TRINITY_DN15290_c1_g1::TRINITY_DN15290_c1_g1_i13::g.49834::m.49834	27	62	61,462	323,31	PF02878.15	PGM_PMM_I	107,1	5,10E-31	No_clan
TRINITY_DN15292_c0_g3::TRINITY_DN15292_c0_g3_i4::g.49797::m.49797	1	3,8	34,233	2,8778					
TRINITY_DN15292_c1_g3::TRINITY_DN15292_c1_g3_i1::g.49799::m.49799	2	12,1	27,491	4,3158	PF00168.29	C2	47,7	1,40E-12	CL0154
TRINITY_DN15294_c5_g1::TRINITY_DN15294_c5_g1_i4::g.49817::m.49817	7	17,6	56,651	15,504	PF00282.18	Pyridoxal_deC	364,2	5,40E-109	CL0061
TRINITY_DN15294_c5_g3::TRINITY_DN15294_c5_g3_i1::g.49818::m.49818	6	16,3	56,702	31,399	PF00282.18	Pyridoxal_deC	350,5	8,30E-105	CL0061

TRINITY_DN15297_c0_g1::TRINITY_DN15297_c0_g1_i10::g.49743::m.49743	6	18,3	36,34	4,437	PF00316.19	FBPase	257	7,60E-77	CL0171
TRINITY_DN15298_c0_g1::TRINITY_DN15298_c0_g1_i1::g.49745::m.49745	3	25,3	16,623	6,1867	PF05529.11	Bap31	45,8	4,90E-12	No_clan
TRINITY_DN15301_c2_g1::TRINITY_DN15301_c2_g1_i12::g.49765::m.49765	1	8,2	19,25	2,0804	PF00025.20	Arf	151,6	1,30E-44	CL0023
TRINITY_DN15302_c0_g1::TRINITY_DN15302_c0_g1_i3::g.49970::m.49970	2	9,4	32,779	3,0159					
TRINITY_DN15303_c0_g1::TRINITY_DN15303_c0_g1_i2::g.49908::m.49908	6	25,6	37,001	29,821	PF02502.17	LacAB_rpiB	100,1	9,50E-29	No_clan
TRINITY_DN15312_c1_g1::TRINITY_DN15312_c1_g1_i7::g.50104::m.50104	1	8,6	20,136	2,9709					
TRINITY_DN15315_c0_g1::TRINITY_DN15315_c0_g1_i1::g.50016::m.50016	14	38,2	47,593	24,458	PF00118.23	Cpn60_TCP1	196,5	6,30E-58	No_clan
TRINITY_DN15315_c0_g3::TRINITY_DN15315_c0_g3_i4::g.50023::m.50023	14	30	57,512	57,985	PF00155.20	Aminotran_1_2	132,5	1,90E-38	CL0061
TRINITY_DN15316_c4_g2::TRINITY_DN15316_c4_g2_i4::g.50087::m.50087	1	7,2	17,06	2,0874	PF00717.22	Peptidase_S24	43,4	2,30E-11	CL0299
TRINITY_DN15317_c1_g1::TRINITY_DN15317_c1_g1_i5::g.50064::m.50064	6	37,7	17,362	78,949	PF01287.19	eIF-5a	101,4	2,10E-29	CL0021
TRINITY_DN15323_c1_g4::TRINITY_DN15323_c1_g4_i7::g.50170::m.50170	2	16,5	20,792	5,5529	PF06232.10	ATS3	180,1	1,30E-53	CL0321
TRINITY_DN15328_c3_g2::TRINITY_DN15328_c3_g2_i4::g.50205::m.50205	4	12,4	46,654	6,5576	PF00687.20	Ribosomal_L1	119,1	1,90E-34	No_clan
TRINITY_DN15338_c2_g1::TRINITY_DN15338_c2_g1_i4::g.50559::m.50559	5	39,5	17,119	4,3482	PF00179.25	UQ_con	165,8	3,90E-49	CL0208
TRINITY_DN15338_c3_g1::TRINITY_DN15338_c3_g1_i1::g.50560::m.50560	4	15,4	25,487	5,5644	PF00334.18	NDK	180,8	1,10E-53	No_clan
TRINITY_DN15339_c4_g4::TRINITY_DN15339_c4_g4_i1::g.49925::m.49925	1	11,6	13,087	2,8744	PF03029.16	ATP_bind_1	58,6	7,30E-16	CL0023
TRINITY_DN15339_c5_g2::TRINITY_DN15339_c5_g2_i1::g.49931::m.49931	5	10	83,719	12,808	PF00564.23	PB1	66,2	1,70E-18	CL0072
TRINITY_DN15345_c2_g1::TRINITY_DN15345_c2_g1_i10::g.49844::m.49844	2	9,5	56,555	2,751	PF05691.11	Raffinose_syn	714,7	9,40E-215	CL0058
TRINITY_DN15347_c2_g1::TRINITY_DN15347_c2_g1_i4::g.50637::m.50637	3	16,1	23,755	10,592					
TRINITY_DN15348_c2_g2::TRINITY_DN15348_c2_g2_i4::g.50676::m.50676	13	46,7	38,576	323,31	PF03214.12	RGP	626,7	9,10E-189	CL0110
TRINITY_DN15352_c3_g1::TRINITY_DN15352_c3_g1_i9::g.50776::m.50776	11	23,5	71,8	181,75	PF00076.21	RRM_1	61,8	3,80E-17	CL0221
TRINITY_DN15353_c0_g3::TRINITY_DN15353_c0_g3_i2::g.50015::m.50015	13	20,4	86,367	85,069	PF02854.18	MIF4G	185,9	6,70E-55	CL0020

TRINITY_DN15354_c0_g1::TRINITY_DN15354_c0_g1_i1::g.50622::m.50622	5	7,8	89,622	10,84	PF00547.17	Urease_gamma	139,2	4,00E-41	No_clan
TRINITY_DN15356_c1_g1::TRINITY_DN15356_c1_g1_i4::g.50914::m.50914	2	16,9	23,433	2,4596	PF12678.6	zf-rbx1	35,9	6,50E-09	CL0229
TRINITY_DN15357_c0_g1::TRINITY_DN15357_c0_g1_i2::g.50651::m.50651	3	18,9	19,152	6,1818	PF02823.15	ATP-synt_DE_N	58,6	4,10E-16	No_clan
TRINITY_DN15365_c0_g2::TRINITY_DN15365_c0_g2_i4::g.50831::m.50831	2	15,6	23,282	8,0996	PF00483.22	NTP_transferase	41	1,50E-10	CL0110
TRINITY_DN15366_c1_g1::TRINITY_DN15366_c1_g1_i4::g.50810::m.50810	1	3,2	61,97	2,5638	PF06814.12	Lung_7-TM_R	333,8	7,80E-100	CL0192
TRINITY_DN15367_c2_g1::TRINITY_DN15367_c2_g1_i7::g.50786::m.50786	1	8,9	13,37	2,4589	PF02221.14	E1_DerP2_DerF2	52	8,90E-14	CL0532
TRINITY_DN15371_c0_g2::TRINITY_DN15371_c0_g2_i1::g.50837::m.50837	2	8,2	38,872	3,9965					
TRINITY_DN15372_c1_g1::TRINITY_DN15372_c1_g1_i7::g.50862::m.50862	1	12,4	17,167	2,1362					
TRINITY_DN16209_c0_g5::TRINITY_DN16209_c0_g5_i1::g.64031::m.64031	4	24,6	14,79	6,6802	PF00410.18	Ribosomal_S8	78	5,30E-22	No_clan
TRINITY_DN15384_c0_g1::TRINITY_DN15384_c0_g1_i3::g.51070::m.51070	5	16,6	41,231	9,961	PF01926.22	MMR_HSR1	74,7	5,60E-21	CL0023
TRINITY_DN15390_c3_g1::TRINITY_DN15390_c3_g1_i2::g.51061::m.51061	1	7	21,856	2,5444	PF00230.19	MIP	30,8	2,10E-07	No_clan
TRINITY_DN15394_c0_g1::TRINITY_DN15394_c0_g1_i2::g.49883::m.49883	30	46,7	95,917	310,58	PF00343.19	Phosphorylase	1006,4	6,20E-303	CL0113
TRINITY_DN15394_c0_g2::TRINITY_DN15394_c0_g2_i6::g.49878::m.49878	13	15	100,34	85,17	PF00012.19	HSP70	330,4	1,50E-98	CL0108
TRINITY_DN15397_c1_g1::TRINITY_DN15397_c1_g1_i5::g.51177::m.51177	6	10,9	82,514	20,598	PF02990.15	EMP70	748	4,80E-225	No_clan
TRINITY_DN15400_c1_g2::TRINITY_DN15400_c1_g2_i8::g.50620::m.50620	3	26,5	18,992	3,5419	PF04398.11	DUF538	95	3,30E-27	No_clan
TRINITY_DN15404_c3_g2::TRINITY_DN15404_c3_g2_i3::g.51327::m.51327	2	9,9	35,861	1,9017	PF09296.10	NUDIX-like	37,1	3,50E-09	CL0261
TRINITY_DN15405_c3_g1::TRINITY_DN15405_c3_g1_i6::g.51555::m.51555	1	9,1	16,576	2,2977	PF02212.17	GED	84,5	4,00E-24	No_clan
TRINITY_DN15405_c3_g1::TRINITY_DN15405_c3_g1_i4::g.51552::m.51552	1	16,4	13,811	3,1509	PF01031.19	Dynamin_M	42,8	3,30E-11	No_clan
TRINITY_DN15411_c1_g1::TRINITY_DN15411_c1_g1_i1::g.51593::m.51593	2	5,3	41,572	2,9112	PF00400.31	WD40	23,3	7,90E-05	CL0186
TRINITY_DN15411_c1_g2::TRINITY_DN15411_c1_g2_i10::g.51619::m.51619	2	21,3	16,521	2,8944	PF00076.21	RRM_1	41,4	8,80E-11	CL0221
TRINITY_DN15416_c2_g2::TRINITY_DN15416_c2_g2_i3::g.51536::m.51536	6	35,8	22,555	10,78	PF00227.25	Proteasome	135,5	1,40E-39	CL0052

TRINITY_DN15422_c1_g1::TRINITY_DN15422_c1_g1_i1::g.51639::m.51639	1	4,1	32,444	2,5078	PF05147.12	LANC_like	274,1	1,00E-81	CL0059
TRINITY_DN15424_c2_g3::TRINITY_DN15424_c2_g3_i3::g.51667::m.51667	6	15,6	57,212	29,72	PF00190.21	Cupin_1	132	1,20E-38	CL0029
TRINITY_DN15425_c0_g1::TRINITY_DN15425_c0_g1_i1::g.51653::m.51653	5	17,9	41,147	66,265	PF00724.19	Oxidored_FMN	302,1	4,70E-90	CL0036
TRINITY_DN15426_c0_g2::TRINITY_DN15426_c0_g2_i4::g.51819::m.51819	11	43,8	20,021	282,82	PF02970.15	TBCA	95,4	1,80E-27	No_clan
TRINITY_DN15427_c0_g1::TRINITY_DN15427_c0_g1_i2::g.51743::m.51743	5	16,2	57,356	7,923					
TRINITY_DN15428_c6_g1::TRINITY_DN15428_c6_g1_i5::g.51800::m.51800	2	18,9	14,041	3,542					
TRINITY_DN15433_c2_g1::TRINITY_DN15433_c2_g1_i2::g.51849::m.51849	2	11,2	30,843	3,5124					
TRINITY_DN15434_c1_g2::TRINITY_DN15434_c1_g2_i2::g.51814::m.51814	6	30,2	23,903	7,9124	PF00071.21	Ras	206,5	1,70E-61	CL0023
TRINITY_DN15434_c1_g3::TRINITY_DN15434_c1_g3_i3::g.51817::m.51817	5	27,2	24,997	4,8206	PF00071.21	Ras	205,6	3,10E-61	CL0023
TRINITY_DN15436_c5_g1::TRINITY_DN15436_c5_g1_i4::g.51870::m.51870	5	10,8	57,864	8,4097					
TRINITY_DN15438_c0_g1::TRINITY_DN15438_c0_g1_i13::g.52894::m.52894	11	30,8	53,813	22,552	PF03446.14	NAD_binding_2	158,5	1,40E-46	CL0063
TRINITY_DN15439_c1_g1::TRINITY_DN15439_c1_g1_i4::g.51919::m.51919	9	25,7	52,099	38,591	PF01394.19	Clathrin_propel	27,9	1,70E-06	CL0020
TRINITY_DN15441_c0_g1::TRINITY_DN15441_c0_g1_i3::g.51487::m.51487	5	47,3	12,285	5,0592	PF00034.20	Cytochrom_C	48,1	1,80E-12	CL0318
TRINITY_DN15441_c0_g2::TRINITY_DN15441_c0_g2_i3::g.51488::m.51488	5	43,1	13,614	22,399	PF00034.20	Cytochrom_C	48,3	1,60E-12	CL0318
TRINITY_DN15442_c0_g2::TRINITY_DN15442_c0_g2_i1::g.51251::m.51251	2	20	13,879	2,7616	PF02036.16	SCP2	71,6	5,70E-20	CL0311
TRINITY_DN15444_c2_g1::TRINITY_DN15444_c2_g1_i7::g.52052::m.52052	4	23,4	22,988	8,854					
TRINITY_DN15444_c2_g1::TRINITY_DN15444_c2_g1_i4::g.52046::m.52046	1	10,2	14,811	2,1437					
TRINITY_DN15444_c2_g1::TRINITY_DN15444_c2_g1_i2::g.52034::m.52034	5	25,8	26,603	11,249					
TRINITY_DN15444_c2_g2::TRINITY_DN15444_c2_g2_i4::g.52039::m.52039	4	12,6	36,386	6,0997	PF00076.21	RRM_1	49,8	2,10E-13	CL0221
TRINITY_DN15448_c0_g1::TRINITY_DN15448_c0_g1_i6::g.51979::m.51979	2	18,3	32,091	12,311	PF01960.17	ArgJ	377,9	3,80E-113	CL0635
TRINITY_DN15451_c0_g1::TRINITY_DN15451_c0_g1_i8::g.52025::m.52025	2	6,8	47,129	27,699	PF00899.20	ThiF	170,6	3,30E-50	CL0063

TRINITY_DN15452_c6_g1::TRINITY_DN15452_c6_g1_i5::g.52129::m.52129	17	43,2	47,57	323,31	PF00923.18	TAL_FSA	257,5	1,40E-76	CL0036
TRINITY_DN15454_c2_g1::TRINITY_DN15454_c2_g1_i4::g.52157::m.52157	1	2,7	49,094	1,8582	PF00459.24	Inositol_P	184,1	3,30E-54	CL0171
TRINITY_DN15456_c0_g1::TRINITY_DN15456_c0_g1_i1::g.52131::m.52131	1	3,7	32,737	9,0834	PF02770.18	Acyl-CoA_dh_M	81,1	4,60E-23	No_clan
TRINITY_DN15457_c3_g1::TRINITY_DN15457_c3_g1_i1::g.52194::m.52194	2	33,3	10,826	5,0198					
TRINITY_DN15457_c4_g1::TRINITY_DN15457_c4_g1_i5::g.52200::m.52200	5	31,8	19,066	7,1556	PF00006.24	ATP-synt_ab	36,7	3,00E-09	CL0023
TRINITY_DN15458_c1_g2::TRINITY_DN15458_c1_g2_i4::g.52100::m.52100	2	17,8	15,012	3,9115					
TRINITY_DN15458_c1_g3::TRINITY_DN15458_c1_g3_i6::g.52102::m.52102	1	9,3	16,167	3,1003	PF00574.22	CLP_protease	215,9	3,70E-64	CL0127
TRINITY_DN15460_c0_g1::TRINITY_DN15460_c0_g1_i9::g.52319::m.52319	2	12,9	31,617	8,0209	PF11566.7	PI31_Prot_N	70,6	1,20E-19	No_clan
TRINITY_DN15462_c1_g3::TRINITY_DN15462_c1_g3_i2::g.52234::m.52234	1	7	20,654	2,4918					
TRINITY_DN15464_c0_g1::TRINITY_DN15464_c0_g1_i3::g.52265::m.52265	13	52,9	30,484	7,9066	PF00012.19	HSP70	444,7	4,00E-133	CL0108
TRINITY_DN15464_c0_g2::TRINITY_DN15464_c0_g2_i1::g.52259::m.52259	13	43,4	39,227	264,69	PF00012.19	HSP70	400,9	6,80E-120	CL0108
TRINITY_DN15464_c0_g4::TRINITY_DN15464_c0_g4_i1::g.52272::m.52272	8	37,9	26,595	5,7052	PF00012.19	HSP70	223	5,10E-66	CL0108
TRINITY_DN15464_c0_g5::TRINITY_DN15464_c0_g5_i1::g.52274::m.52274	7	46,8	19,538	3,1946	PF00012.19	HSP70	234,4	1,80E-69	CL0108
TRINITY_DN15467_c6_g1::TRINITY_DN15467_c6_g1_i1::g.52486::m.52486	17	57,8	36,022	323,31	PF16884.4	ADH_N_2	81,4	3,70E-23	CL0296
TRINITY_DN15473_c0_g1::TRINITY_DN15473_c0_g1_i4::g.52564::m.52564	11	33,4	45,644	36,502	PF00903.24	Glyoxalase	77,7	8,20E-22	CL0104
TRINITY_DN15473_c1_g1::TRINITY_DN15473_c1_g1_i2::g.52569::m.52569	4	11,1	47,948	16,724	PF01979.19	Amidohydro_1	184,3	3,50E-54	CL0034
TRINITY_DN15475_c0_g1::TRINITY_DN15475_c0_g1_i2::g.52448::m.52448	5	17,1	44,864	11,15	PF02485.20	Branch	277,4	9,40E-83	CL0110
TRINITY_DN15478_c0_g1::TRINITY_DN15478_c0_g1_i13::g.52472::m.52472	1	9,1	19,664	2,1752	PF13920.5	zf-C3HC4_3	50,1	1,70E-13	CL0229
TRINITY_DN15478_c1_g1::TRINITY_DN15478_c1_g1_i1::g.52474::m.52474	2	5,9	43,642	3,9852	PF16113.4	ECH_2	370,6	8,40E-111	CL0127
TRINITY_DN15482_c4_g1::TRINITY_DN15482_c4_g1_i5::g.52502::m.52502	3	22	24,409	15,749	PF03896.15	TRAP_alpha	93	1,70E-26	No_clan
TRINITY_DN15485_c1_g1::TRINITY_DN15485_c1_g1_i8::g.52679::m.52679	2	9,8	24,22	2,8208	PF06273.10	eIF-4B	111,7	4,50E-32	No_clan

TRINITY_DN15486_c0_g3::TRINITY_DN15486_c0_g3_i1::g.52746::m.52746	1	9,2	18,946	2,6047	PF00201.17	UDPGT	24,8	8,00E-06	CL0113
TRINITY_DN15488_c1_g5::TRINITY_DN15488_c1_g5_i3::g.52738::m.52738	6	25,6	40,579	20,887	PF14226.5	DIOX_N	78,2	7,70E-22	CL0029
TRINITY_DN15498_c4_g2::TRINITY_DN15498_c4_g2_i2::g.51311::m.51311	1	10	29,147	13,592	PF04893.16	Yip1	52,3	4,90E-14	CL0112
TRINITY_DN15505_c1_g1::TRINITY_DN15505_c1_g1_i3::g.53026::m.53026	1	10,4	11,418	2,1432					
TRINITY_DN15507_c1_g1::TRINITY_DN15507_c1_g1_i1::g.53015::m.53015	3	17,9	25,931	29,486	PF16845.4	SQAPI	74	8,50E-21	CL0121
TRINITY_DN15510_c3_g3::TRINITY_DN15510_c3_g3_i2::g.53102::m.53102	2	5,1	53,952	4,1779	PF01496.18	V_ATPase_I	451,8	3,60E-135	No_clan
TRINITY_DN15513_c2_g1::TRINITY_DN15513_c2_g1_i6::g.53086::m.53086	1	11,3	14,416	2,8231					
TRINITY_DN15513_c2_g2::TRINITY_DN15513_c2_g2_i3::g.53087::m.53087	2	5,6	42,553	3,5278	PF12697.6	Abhydrolase_6	49,5	7,50E-13	CL0028
TRINITY_DN15514_c4_g2::TRINITY_DN15514_c4_g2_i2::g.53063::m.53063	5	9,6	66,49	7,9857					
TRINITY_DN15517_c0_g1::TRINITY_DN15517_c0_g1_i10::g.53139::m.53139	5	8	101,02	9,3543	PF04869.13	Uso1_p115_head	94,6	5,80E-27	No_clan
TRINITY_DN15518_c0_g1::TRINITY_DN15518_c0_g1_i2::g.53176::m.53176	2	1,8	165,21	3,6749	PF12783.6	Sec7_N	120,1	7,20E-35	No_clan
TRINITY_DN15518_c0_g2::TRINITY_DN15518_c0_g2_i2::g.53174::m.53174	2	1,6	164,25	3,1213	PF12783.6	Sec7_N	118,1	3,00E-34	No_clan
TRINITY_DN15521_c0_g1::TRINITY_DN15521_c0_g1_i5::g.53143::m.53143	12	28,5	57,391	106,51	PF00224.20	PK	308,6	4,30E-92	CL0151
TRINITY_DN15525_c0_g1::TRINITY_DN15525_c0_g1_i8::g.53299::m.53299	14	24,5	79,498	171,78	PF00082.21	Peptidase_S8	139,7	1,10E-40	No_clan
TRINITY_DN15527_c0_g1::TRINITY_DN15527_c0_g1_i4::g.53287::m.53287	1	4,4	39,857	2,2107	PF00240.22	ubiquitin	55,2	4,00E-15	CL0072
TRINITY_DN15531_c1_g1::TRINITY_DN15531_c1_g1_i14::g.53405::m.53405	6	55,2	14,406	294,14	PF00293.27	NUDIX	47,5	1,60E-12	CL0261
TRINITY_DN15531_c1_g1::TRINITY_DN15531_c1_g1_i8::g.53401::m.53401	4	37,8	13,11	4,726	PF00293.27	NUDIX	36	5,60E-09	CL0261
TRINITY_DN15542_c3_g2::TRINITY_DN15542_c3_g2_i4::g.53532::m.53532	1	17,8	14,647	5,7025	PF00892.19	EamA	28,9	9,70E-07	CL0184
TRINITY_DN15546_c0_g1::TRINITY_DN15546_c0_g1_i6::g.53570::m.53570	1	3,3	40,295	2,7846	PF02171.16	Piwi	343,7	8,20E-103	CL0219
TRINITY_DN15549_c2_g2::TRINITY_DN15549_c2_g2_i1::g.53640::m.53640	8	27,8	43,584	23,375	PF00076.21	RRM_1	61,4	5,10E-17	CL0221
TRINITY_DN15551_c3_g3::TRINITY_DN15551_c3_g3_i8::g.53664::m.53664	2	14,2	25,375	5,2727					

TRINITY_DN15556_c2_g3::TRINITY_DN15556_c2_g3_i7::g.53767::m.53767	11	35,3	46,628	74,99	PF01464.19	SLT	40,7	1,40E-10	CL0037
TRINITY_DN15558_c1_g3::TRINITY_DN15558_c1_g3_i8::g.53729::m.53729	6	15,5	41,078	8,5313	PF00153.26	Mito_carr	83,6	6,20E-24	No_clan
TRINITY_DN15558_c1_g3::TRINITY_DN15558_c1_g3_i7::g.53727::m.53727	6	15,4	41,087	-2	PF00153.26	Mito_carr	83,6	6,20E-24	No_clan
TRINITY_DN15571_c4_g3::TRINITY_DN15571_c4_g3_i4::g.54049::m.54049	3	9,5	45,464	5,8993	PF00483.22	NTP_transferase	94,2	8,50E-27	CL0110
TRINITY_DN15578_c0_g1::TRINITY_DN15578_c0_g1_i2::g.54153::m.54153	6	39,2	17,652	140,38	PF03737.14	RraA-like	147,3	3,30E-43	CL0364
TRINITY_DN15579_c1_g3::TRINITY_DN15579_c1_g3_i1::g.54029::m.54029	2	5,7	50,283	2,8059	PF00270.28	DEAD	150,5	3,80E-44	CL0023
TRINITY_DN15579_c2_g1::TRINITY_DN15579_c2_g1_i2::g.54035::m.54035	2	20,7	13,509	2,5878	PF00295.16	Glyco_hydro_28	70,7	1,00E-19	CL0268
TRINITY_DN15581_c1_g3::TRINITY_DN15581_c1_g3_i1::g.54122::m.54122	14	48,9	41,989	229,66	PF00266.18	Aminotran_5	176,3	7,90E-52	CL0061
TRINITY_DN15584_c3_g1::TRINITY_DN15584_c3_g1_i1::g.54058::m.54058	4	33,6	15,278	63,254					
TRINITY_DN15585_c1_g1::TRINITY_DN15585_c1_g1_i8::g.54308::m.54308	1	8,7	13,741	4,6622	PF13472.5	Lipase_GDSL_2	44,6	1,90E-11	CL0264
TRINITY_DN15585_c1_g1::TRINITY_DN15585_c1_g1_i4::g.54306::m.54306	6	35,2	21,512	244,86	PF00657.21	Lipase_GDSL	64,5	1,20E-17	CL0264
TRINITY_DN15589_c0_g1::TRINITY_DN15589_c0_g1_i4::g.54099::m.54099	25	56,1	59,543	323,31	PF00883.20	Peptidase_M17	382,7	1,20E-114	CL0035
TRINITY_DN15591_c0_g2::TRINITY_DN15591_c0_g2_i2::g.54135::m.54135	6	23,1	44,932	33,499					
TRINITY_DN15594_c4_g1::TRINITY_DN15594_c4_g1_i1::g.54180::m.54180	2	7,8	46,52	5,0376	PF00953.20	Glycos_transf_4	125,8	1,40E-36	No_clan
TRINITY_DN15598_c1_g1::TRINITY_DN15598_c1_g1_i2::g.54269::m.54269	2	4,8	62,789	3,227	PF13424.5	TPR_12	34,5	1,80E-08	CL0020
TRINITY_DN15598_c2_g1::TRINITY_DN15598_c2_g1_i7::g.54284::m.54284	6	18,8	41,838	40,161	PF13519.5	VWA_2	96,7	1,10E-27	CL0128
TRINITY_DN15599_c0_g1::TRINITY_DN15599_c0_g1_i1::g.54231::m.54231	2	24,2	12,161	5,0343	PF00234.21	Tryp_alpha_amyl	32,9	6,30E-08	CL0482
TRINITY_DN15601_c2_g1::TRINITY_DN15601_c2_g1_i1::g.52933::m.52933	3	22,6	12,437	5,4699					
TRINITY_DN15603_c1_g3::TRINITY_DN15603_c1_g3_i1::g.54361::m.54361	2	18,5	14,818	3,4378	PF01920.19	Prefoldin_2	79,7	1,30E-22	CL0200
TRINITY_DN15610_c2_g1::TRINITY_DN15610_c2_g1_i5::g.54395::m.54395	6	32,6	30,381	52,395	PF13460.5	NAD_binding_10	77,8	8,50E-22	CL0063
TRINITY_DN15614_c2_g1::TRINITY_DN15614_c2_g1_i7::g.54755::m.54755	8	66,9	16,755	21,816	PF00106.24	adh_short	28	1,20E-06	CL0063

TRINITY_DN15614_c2_g1::TRINITY_DN15614_c2_g1_i2::g.54750::m.54750	6	30,6	20,878	-2	PF00106.24	adh_short	97	8,50E-28	CL0063
TRINITY_DN15617_c2_g1::TRINITY_DN15617_c2_g1_i3::g.54449::m.54449	1	14,9	13,238	3,0861	PF00639.20	Rotamase	84,3	8,20E-24	CL0487
TRINITY_DN15619_c2_g2::TRINITY_DN15619_c2_g2_i4::g.54476::m.54476	3	16	20,646	4,6161	PF07851.12	TMPIT	72,3	3,70E-20	No_clan
TRINITY_DN15621_c1_g1::TRINITY_DN15621_c1_g1_i6::g.54532::m.54532	8	22	64,451	31,52	PF12999.6	PRKCSH-like	126,4	9,60E-37	No_clan
TRINITY_DN15624_c0_g1::TRINITY_DN15624_c0_g1_i1::g.54548::m.54548	4	6,8	93,01	9,3887	PF01636.22	APH	156,9	7,60E-46	CL0016
TRINITY_DN15625_c0_g3::TRINITY_DN15625_c0_g3_i1::g.54608::m.54608	4	23,3	24,983	8,3345	PF13774.5	Longin	85,8	1,40E-24	No_clan
TRINITY_DN15627_c0_g1::TRINITY_DN15627_c0_g1_i7::g.54594::m.54594	1	4,7	30,22	3,6928	PF01370.20	Epimerase	95,5	3,10E-27	CL0063
TRINITY_DN15627_c0_g2::TRINITY_DN15627_c0_g2_i1::g.54590::m.54590	2	6,2	49,048	4,7568	PF03407.15	Nucleotid_trans	188,6	1,20E-55	CL0110
TRINITY_DN15634_c1_g2::TRINITY_DN15634_c1_g2_i1::g.54735::m.54735	2	3,4	97,127	2,8951					
TRINITY_DN15635_c1_g1::TRINITY_DN15635_c1_g1_i2::g.54767::m.54767	3	5,8	57,375	6,7488	PF00083.23	Sugar_tr	379,4	2,20E-113	CL0015
TRINITY_DN15638_c0_g2::TRINITY_DN15638_c0_g2_i2::g.54677::m.54677	1	12,2	27,521	4,6723	PF00076.21	RRM_1	41,3	9,20E-11	CL0221
TRINITY_DN15641_c2_g1::TRINITY_DN15641_c2_g1_i3::g.54993::m.54993	6	22,8	34,093	15,518	PF04073.14	tRNA_edit	82,5	2,30E-23	No_clan
TRINITY_DN15642_c0_g3::TRINITY_DN15642_c0_g3_i1::g.55086::m.55086	1	9,8	15,521	2,9448	PF09180.10	ProRS-C_1	73,2	1,40E-20	No_clan
TRINITY_DN15656_c0_g5::TRINITY_DN15656_c0_g5_i2::g.55149::m.55149	3	11,1	43,966	6,6774	PF00091.24	Tubulin	140,1	9,00E-41	CL0566
TRINITY_DN15658_c0_g1::TRINITY_DN15658_c0_g1_i3::g.55055::m.55055	3	3,5	128,41	6,7628	PF05833.10	FbpA	60,8	9,40E-17	CL0303
TRINITY_DN15660_c2_g1::TRINITY_DN15660_c2_g1_i4::g.55101::m.55101	1	5,1	32,387	4,3478	PF01694.21	Rhomboid	25,2	1,20E-05	CL0207
TRINITY_DN15671_c0_g2::TRINITY_DN15671_c0_g2_i5::g.55277::m.55277	16	37,5	62,665	238,01	PF00342.18	PGI	725,3	2,90E-218	CL0067
TRINITY_DN15673_c2_g2::TRINITY_DN15673_c2_g2_i2::g.55381::m.55381	4	29,7	15,059	9,1581	PF01929.16	Ribosomal_L14e	92	2,30E-26	CL0107
TRINITY_DN15675_c4_g2::TRINITY_DN15675_c4_g2_i2::g.55509::m.55509	2	8,7	28,033	4,3565	PF00156.26	Pribosyltran	85,1	3,20E-24	CL0533
TRINITY_DN15675_c5_g2::TRINITY_DN15675_c5_g2_i2::g.55536::m.55536	10	33,9	48,482	44,852	PF00349.20	Hexokinase_1	201,3	1,40E-59	CL0108
TRINITY_DN15677_c1_g6::TRINITY_DN15677_c1_g6_i3::g.55549::m.55549	2	26	21,296	3,1247	PF00686.18	CBM_20	60,2	1,30E-16	CL0369

TRINITY_DN15683_c2_g1::TRINITY_DN15683_c2_g1_i10::g.55639::m.55639	1	6,9	22,47	13,554	PF08030.11	NAD_binding_6	136,2	9,20E-40	CL0091
TRINITY_DN15685_c2_g1::TRINITY_DN15685_c2_g1_i7::g.55504::m.55504	1	3,9	52,764	3,5137	PF01501.19	Glyco_transf_8	316,8	9,80E-95	CL0110
TRINITY_DN15687_c3_g1::TRINITY_DN15687_c3_g1_i1::g.55726::m.55726	5	52,9	15,166	20,35	PF01323.19	DSBA	68,5	6,10E-19	CL0172
TRINITY_DN15690_c0_g1::TRINITY_DN15690_c0_g1_i7::g.55685::m.55685	3	17,7	28,656	4,965	PF01156.18	IU_nuc_hydro	188,2	2,40E-55	No_clan
TRINITY_DN15691_c0_g1::TRINITY_DN15691_c0_g1_i9::g.55585::m.55585	1	2,9	66,279	3,9157	PF01902.16	Diphthami_syn_2	37,1	2,10E-09	CL0039
TRINITY_DN15693_c4_g1::TRINITY_DN15693_c4_g1_i3::g.55852::m.55852	2	9,2	35,778	4,9247	PF00005.26	ABC_tran	67,8	1,20E-18	CL0023
TRINITY_DN15694_c2_g2::TRINITY_DN15694_c2_g2_i2::g.54517::m.54517	5	46,7	22,239	16,341	PF02167.14	Cytochrom_C1	258	6,70E-77	CL0318
TRINITY_DN15696_c0_g5::TRINITY_DN15696_c0_g5_i1::g.55738::m.55738	2	9,5	27,295	93,008	PF00400.31	WD40	21,9	0,00021	CL0186
TRINITY_DN15699_c1_g3::TRINITY_DN15699_c1_g3_i5::g.55823::m.55823	5	9,7	87,538	9,5622	PF04810.14	zf-Sec23_Sec24	62,2	3,20E-17	No_clan
TRINITY_DN15700_c1_g1::TRINITY_DN15700_c1_g1_i3::g.54890::m.54890	10	14,9	110,36	22,936	PF13360.5	PQQ_2	46,6	2,90E-12	CL0186
TRINITY_DN15701_c0_g1::TRINITY_DN15701_c0_g1_i7::g.55836::m.55836	2	4,8	78,842	2,0079					
TRINITY_DN15702_c0_g3::TRINITY_DN15702_c0_g3_i1::g.55933::m.55933	2	6,9	28,24	2,3997	PF00181.22	Ribosomal_L2	63,6	1,20E-17	CL0021
TRINITY_DN15702_c0_g4::TRINITY_DN15702_c0_g4_i1::g.55937::m.55937	5	20,1	32,981	10,418	PF00181.22	Ribosomal_L2	60,2	1,30E-16	CL0021
TRINITY_DN15705_c0_g3::TRINITY_DN15705_c0_g3_i5::g.56096::m.56096	1	14,3	11,821	2,2972	PF04190.12	DUF410	42,9	4,60E-11	No_clan
TRINITY_DN15729_c0_g1::TRINITY_DN15729_c0_g1_i9::g.56378::m.56378	2	12,2	24,879	2,0736	PF00571.27	CBS	38,1	1,40E-09	No_clan
TRINITY_DN15732_c1_g2::TRINITY_DN15732_c1_g2_i3::g.56333::m.56333	13	36,8	54,309	26,109	PF00118.23	Cpn60_TCP1	501,5	2,10E-150	No_clan
TRINITY_DN15733_c1_g1::TRINITY_DN15733_c1_g1_i2::g.56414::m.56414	2	19	18,308	16,183	PF02996.16	Prefoldin	102,1	1,70E-29	CL0200
TRINITY_DN15733_c2_g3::TRINITY_DN15733_c2_g3_i4::g.56425::m.56425	1	1,4	121,69	2,0376	PF00168.29	C2	82,4	2,20E-23	CL0154
TRINITY_DN15741_c2_g1::TRINITY_DN15741_c2_g1_i4::g.55925::m.55925	1	13,4	16,999	11,376	PF00168.29	C2	38	1,50E-09	CL0154
TRINITY_DN15744_c2_g4::TRINITY_DN15744_c2_g4_i2::g.56499::m.56499	1	7,7	22,022	2,2355	PF04012.11	PspA_IM30	103,1	1,50E-29	CL0235
TRINITY_DN15754_c0_g4::TRINITY_DN15754_c0_g4_i1::g.56661::m.56661	1	9,9	15,918	2,0848	PF03168.12	LEA_2	28,2	2,00E-06	CL0159

TRINITY_DN15761_c1_g2::TRINITY_DN15761_c1_g2_i2::g.56714::m.56714	11	28,1	54,826	5,1521	PF00091.24	Tubulin	231,3	1,00E-68	CL0566
TRINITY_DN15762_c0_g1::TRINITY_DN15762_c0_g1_i1::g.56697::m.56697	3	3,1	154,58	4,3238	PF02769.21	AIRS_C	82,1	4,30E-23	No_clan
TRINITY_DN15763_c0_g1::TRINITY_DN15763_c0_g1_i1::g.56716::m.56716	6	11,3	75,163	7,7593	PF02990.15	EMP70	595	1,10E-178	No_clan
TRINITY_DN15771_c0_g1::TRINITY_DN15771_c0_g1_i5::g.56845::m.56845	6	25,4	31,505	16,548	PF00400.31	WD40	12,4	0,22	CL0186
TRINITY_DN15771_c0_g2::TRINITY_DN15771_c0_g2_i3::g.56846::m.56846	14	19,7	89,308	55,169	PF00400.31	WD40	26,9	5,70E-06	CL0186
TRINITY_DN15774_c1_g1::TRINITY_DN15774_c1_g1_i3::g.56941::m.56941	7	52,5	17,567	323,31	PF00903.24	Glyoxalase	39,3	5,90E-10	CL0104
TRINITY_DN15774_c2_g1::TRINITY_DN15774_c2_g1_i10::g.56953::m.56953	11	14,6	119,31	23,526	PF00328.21	His_Phos_2	451,9	2,00E-135	CL0071
TRINITY_DN15779_c0_g2::TRINITY_DN15779_c0_g2_i1::g.57109::m.57109	2	8,4	25,806	3,1252					
TRINITY_DN15783_c0_g1::TRINITY_DN15783_c0_g1_i4::g.56969::m.56969	3	15,7	22,255	5,447	PF01928.20	CYTH	85,8	3,00E-24	CL0273
TRINITY_DN15784_c0_g1::TRINITY_DN15784_c0_g1_i2::g.57047::m.57047	4	5,9	85,78	7,4561	PF04734.12	Ceramidase_alk	790,5	5,90E-238	No_clan
TRINITY_DN15793_c0_g1::TRINITY_DN15793_c0_g1_i1::g.57091::m.57091	3	46,5	11,293	8,9842	PF00928.20	Adap_comp_sub	88,6	3,90E-25	CL0448
TRINITY_DN15794_c0_g2::TRINITY_DN15794_c0_g2_i7::g.57165::m.57165	4	13,7	58,418	53,286	PF02383.17	Syja_N	290	2,30E-86	CL0031
TRINITY_DN15799_c0_g1::TRINITY_DN15799_c0_g1_i1::g.55952::m.55952	3	19,6	29,555	16,228	PF00182.18	Glyco_hydro_19	419,1	5,20E-126	CL0037
TRINITY_DN15799_c0_g1::TRINITY_DN15799_c0_g1_i13::g.55967::m.55967	3	24,1	23,864	10,588	PF00182.18	Glyco_hydro_19	330,8	4,90E-99	CL0037
TRINITY_DN15799_c0_g1::TRINITY_DN15799_c0_g1_i6::g.55958::m.55958	2	12,9	26,902	2,6109	PF00182.18	Glyco_hydro_19	405,3	8,70E-122	CL0037
TRINITY_DN15799_c0_g1::TRINITY_DN15799_c0_g1_i8::g.55961::m.55961	2	14,9	21,74	68,421	PF00182.18	Glyco_hydro_19	342,5	1,30E-102	CL0037
TRINITY_DN15805_c1_g2::TRINITY_DN15805_c1_g2_i2::g.57262::m.57262	6	7	167,7	13,024	PF16507.4	BLM10_mid	114,3	5,60E-33	No_clan
TRINITY_DN15810_c0_g1::TRINITY_DN15810_c0_g1_i2::g.57313::m.57313	1	6,9	18,039	1,9755	PF03908.12	Sec20	27,5	2,00E-06	CL0147
TRINITY_DN15811_c0_g2::TRINITY_DN15811_c0_g2_i2::g.57329::m.57329	6	42,7	17,398	23,105	PF10584.8	Proteasome_A_N	57,8	5,50E-16	CL0052
TRINITY_DN15811_c0_g5::TRINITY_DN15811_c0_g5_i2::g.57331::m.57331	5	33,8	18,148	5,8205	PF00227.25	Proteasome	129	1,30E-37	CL0052

TRINITY_DN15818_c1_g1::TRINITY_DN15818_c1_g1_i7::g.57419::m.57419	3	24,3	25,237	4,8292	PF10185.8	Mesd	25,3	1,10E-05	No_clan
TRINITY_DN15823_c4_g1::TRINITY_DN15823_c4_g1_i3::g.57508::m.57508	2	4,1	69,651	3,4745	PF04146.14	YTH	140,7	2,30E-41	CL0178
TRINITY_DN15824_c1_g1::TRINITY_DN15824_c1_g1_i3::g.57478::m.57478	2	9,2	39,703	2,2118					
TRINITY_DN15828_c0_g1::TRINITY_DN15828_c0_g1_i4::g.57452::m.57452	2	17,4	16,134	3,9175	PF04828.13	GFA	27,9	2,00E-06	CL0080
TRINITY_DN15831_c4_g2::TRINITY_DN15831_c4_g2_i2::g.57659::m.57659	1	2,3	58,497	2,2078	PF04185.13	Phosphoesterase	358,1	4,80E-107	CL0088
TRINITY_DN15832_c2_g1::TRINITY_DN15832_c2_g1_i7::g.57636::m.57636	2	6,2	43,283	3,3659	PF00106.24	adh_short	115,3	2,10E-33	CL0063
TRINITY_DN15833_c5_g1::TRINITY_DN15833_c5_g1_i8::g.57893::m.57893	2	18,6	17,991	2,0724					
TRINITY_DN15833_c5_g1::TRINITY_DN15833_c5_g1_i12::g.57896::m.57896	3	24,6	21,665	4,1901	PF01412.17	ArfGap	142,1	6,60E-42	No_clan
TRINITY_DN15836_c2_g1::TRINITY_DN15836_c2_g1_i8::g.57209::m.57209	11	24,1	63,826	26,672	PF13537.5	GATase_7	148,5	7,20E-44	CL0052
TRINITY_DN15837_c1_g2::TRINITY_DN15837_c1_g2_i3::g.57761::m.57761	4	16,1	43,557	8,3681	PF00202.20	Aminotran_3	229,7	4,30E-68	CL0061
TRINITY_DN15860_c0_g1::TRINITY_DN15860_c0_g1_i3::g.57901::m.57901	1	3,6	43,386	2,828	PF00854.20	PTR2	232,1	9,00E-69	CL0015
TRINITY_DN15863_c0_g1::TRINITY_DN15863_c0_g1_i12::g.58136::m.58136	5	35,3	23,161	11,414	PF01263.19	Aldose_epim	140,9	4,80E-41	CL0103
TRINITY_DN15863_c0_g2::TRINITY_DN15863_c0_g2_i4::g.58135::m.58135	14	55,6	36,09	316,55	PF01263.19	Aldose_epim	243,1	3,60E-72	CL0103
TRINITY_DN15865_c2_g1::TRINITY_DN15865_c2_g1_i9::g.58071::m.58071	1	12,8	15,611	2,1107	PF05348.10	UMP1	126,1	7,40E-37	No_clan
TRINITY_DN15873_c1_g1::TRINITY_DN15873_c1_g1_i7::g.58225::m.58225	1	16	11,606	2,0376					
TRINITY_DN15876_c0_g2::TRINITY_DN15876_c0_g2_i4::g.58231::m.58231	1	10,2	17,569	2,901	PF00076.21	RRM_1	48,4	5,80E-13	CL0221
TRINITY_DN15886_c0_g2::TRINITY_DN15886_c0_g2_i6::g.58296::m.58296	8	18,4	82,456	22,614	PF08323.10	Glyco_transf_5	219,5	5,10E-65	CL0113
TRINITY_DN15893_c1_g2::TRINITY_DN15893_c1_g2_i6::g.57605::m.57605	9	31,5	45,487	58,879	PF00180.19	Iso_dh	350,8	7,60E-105	CL0270
TRINITY_DN15894_c0_g1::TRINITY_DN15894_c0_g1_i1::g.58474::m.58474	1	8,8	17,783	2,0485	PF01575.18	MaoC_dehydratas	89,9	8,20E-26	CL0050
TRINITY_DN15895_c3_g1::TRINITY_DN15895_c3_g1_i1::g.57722::m.57722	3	14,6	38,708	5,2311	PF00076.21	RRM_1	69,4	1,60E-19	CL0221
TRINITY_DN15895_c3_g2::TRINITY_DN15895_c3_g2_i1::g.57724::m.57724	4	16,9	39,182	7,4874	PF00076.21	RRM_1	71,7	2,90E-20	CL0221

TRINITY_DN15895_c4_g2::TRINITY_DN15895_c4_g2_i3::g.57730::m.57730	1	8,5	22,422	2,0646	PF01936.17	NYN	57,6	1,80E-15	CL0280
TRINITY_DN15896_c1_g3::TRINITY_DN15896_c1_g3_i4::g.58593::m.58593	9	37,2	26,844	202,55	PF00141.22	peroxidase	211,5	1,20E-62	CL0617
TRINITY_DN15899_c1_g1::TRINITY_DN15899_c1_g1_i1::g.58501::m.58501	3	24,8	22,066	2,0219					
TRINITY_DN15900_c2_g1::TRINITY_DN15900_c2_g1_i1::g.57240::m.57240	4	7,8	89,574	9,0109	PF00326.20	Peptidase_S9	124,8	3,00E-36	CL0028
TRINITY_DN15903_c3_g2::TRINITY_DN15903_c3_g2_i1::g.58748::m.58748	5	36,2	13,923	6,8311					
TRINITY_DN15923_c1_g1::TRINITY_DN15923_c1_g1_i8::g.59029::m.59029	1	3	69,983	1,9876	PF08797.10	HIRAN	68,1	4,40E-19	No_clan
TRINITY_DN15924_c1_g1::TRINITY_DN15924_c1_g1_i2::g.59050::m.59050	5	15	50,099	167,36	PF00112.22	Peptidase_C1	282	4,10E-84	CL0125
TRINITY_DN15927_c0_g1::TRINITY_DN15927_c0_g1_i2::g.59092::m.59092	9	26,4	53,353	18,814	PF00349.20	Hexokinase_1	209,5	4,30E-62	CL0108
TRINITY_DN15929_c0_g1::TRINITY_DN15929_c0_g1_i6::g.59159::m.59159	2	2,4	120,25	3,3608	PF00628.28	PHD	38,7	6,10E-10	CL0390
TRINITY_DN1593_c0_g1::TRINITY_DN1593_c0_g1_i1::g.417::m.417	2	14,6	17,115	19,43	PF06108.11	DUF952	87,1	5,30E-25	CL0084
TRINITY_DN15930_c2_g2::TRINITY_DN15930_c2_g2_i5::g.59203::m.59203	7	30,7	39,522	15,494	PF03405.13	FA_desaturase_2	533,5	1,40E-160	CL0044
TRINITY_DN15930_c2_g3::TRINITY_DN15930_c2_g3_i6::g.59212::m.59212	8	28,6	37,957	14,865	PF03405.13	FA_desaturase_2	530,9	8,20E-160	CL0044
TRINITY_DN15931_c0_g1::TRINITY_DN15931_c0_g1_i5::g.59103::m.59103	2	6,3	36,834	5,8046	PF00450.21	Peptidase_S10	289,8	4,30E-86	CL0028
TRINITY_DN15932_c0_g3::TRINITY_DN15932_c0_g3_i5::g.59231::m.59231	16	44,5	41,158	208,62	PF08240.11	ADH_N	83	1,10E-23	CL0296
TRINITY_DN15932_c0_g5::TRINITY_DN15932_c0_g5_i5::g.59228::m.59228	4	11,5	59,539	7,9723	PF00009.26	GTP_EFTU	103,6	8,80E-30	CL0023
TRINITY_DN15935_c0_g1::TRINITY_DN15935_c0_g1_i1::g.59258::m.59258	6	15	44,97	43,076	PF00289.21	Biotin_carb_N	136,4	5,00E-40	CL0483
TRINITY_DN15944_c0_g3::TRINITY_DN15944_c0_g3_i1::g.58792::m.58792	1	6,8	18,481	2,3954	PF01249.17	Ribosomal_S21e	120,3	2,50E-35	No_clan
TRINITY_DN15946_c1_g1::TRINITY_DN15946_c1_g1_i2::g.59352::m.59352	5	15,2	49,841	9,6163	PF01233.18	NMT	258,5	1,80E-77	CL0257
TRINITY_DN15946_c1_g2::TRINITY_DN15946_c1_g2_i8::g.59360::m.59360	4	14,7	49,722	9,1807	PF01233.18	NMT	259,8	7,30E-78	CL0257
TRINITY_DN15949_c0_g1::TRINITY_DN15949_c0_g1_i6::g.59510::m.59510	13	19,5	99,946	35,898	PF00240.22	ubiquitin	74,3	4,20E-21	CL0072
TRINITY_DN15949_c1_g2::TRINITY_DN15949_c1_g2_i8::g.59514::m.59514	7	20,4	40,303	59,325	PF13181.5	TPR_8	12,3	0,15	CL0020

TRINITY_DN15951_c5_g2::TRINITY_DN15951_c5_g2_i3::g.59457::m.59457	6	23,6	39,174	11,484	PF01263.19	Aldose_epim	318,3	4,50E-95	CL0103
TRINITY_DN15954_c0_g1::TRINITY_DN15954_c0_g1_i1::g.59385::m.59385	15	48,7	35,959	323,31	PF00191.19	Annexin	71,4	4,40E-20	No_clan
TRINITY_DN15955_c0_g1::TRINITY_DN15955_c0_g1_i1::g.59530::m.59530	2	9,2	28,6	4,3909	PF00762.18	Ferrochelatase	166,1	9,10E-49	CL0043
TRINITY_DN15963_c1_g1::TRINITY_DN15963_c1_g1_i1::g.59605::m.59605	2	5,2	47,17	2,049	PF00479.21	G6PD_N	197,2	3,20E-58	CL0063
TRINITY_DN15963_c2_g1::TRINITY_DN15963_c2_g1_i4::g.59609::m.59609	6	24,5	39,46	323,31	PF00112.22	Peptidase_C1	257	1,80E-76	CL0125
TRINITY_DN15977_c4_g2::TRINITY_DN15977_c4_g2_i4::g.59843::m.59843	3	20,6	19,987	5,4886	PF04430.13	DUF498	107,5	3,20E-31	No_clan
TRINITY_DN15978_c1_g2::TRINITY_DN15978_c1_g2_i1::g.59851::m.59851	3	8,6	63,995	7,1471	PF01434.17	Peptidase_M41	249,9	1,70E-74	CL0126
TRINITY_DN15979_c0_g1::TRINITY_DN15979_c0_g1_i3::g.59847::m.59847	8	20,6	48,038	15,205	PF00676.19	E1_dh	275,2	4,70E-82	CL0254
TRINITY_DN15981_c2_g1::TRINITY_DN15981_c2_g1_i5::g.59872::m.59872	2	28,2	12,534	13,78	PF06825.11	HSBP1	45	6,80E-12	No_clan
TRINITY_DN15983_c2_g1::TRINITY_DN15983_c2_g1_i5::g.59899::m.59899	8	28,1	48,989	49,218	PF00675.19	Peptidase_M16	116,3	1,10E-33	CL0094
TRINITY_DN15984_c0_g3::TRINITY_DN15984_c0_g3_i1::g.59910::m.59910	2	15,1	22,853	2,6939	PF03088.15	Str_synth	32,9	4,70E-08	CL0186
TRINITY_DN15988_c0_g1::TRINITY_DN15988_c0_g1_i7::g.59999::m.59999	8	24,3	55,608	18,497	PF03109.15	ABC1	109,5	1,00E-31	CL0016
TRINITY_DN16000_c0_g1::TRINITY_DN16000_c0_g1_i10::g.60178::m.60178	8	29,3	59,997	66,878	PF01039.21	Carboxyl_trans	71	7,40E-20	CL0127
TRINITY_DN16005_c0_g3::TRINITY_DN16005_c0_g3_i6::g.60403::m.60403	5	16,8	44,768	13,763	PF02812.17	ELFV_dehydrog_N	170,5	1,40E-50	CL0603
TRINITY_DN16008_c3_g2::TRINITY_DN16008_c3_g2_i3::g.60431::m.60431	2	21,8	12,401	3,4224	PF03179.14	V-ATPase_G	111,7	2,10E-32	CL0255
TRINITY_DN16015_c1_g1::TRINITY_DN16015_c1_g1_i9::g.60551::m.60551	3	17,6	26,318	12,202	PF14523.5	Syntaxin_2	104,6	2,70E-30	CL0445
TRINITY_DN16016_c2_g1::TRINITY_DN16016_c2_g1_i9::g.60539::m.60539	2	15,5	14,408	2,734	PF01918.20	Alba	47,4	1,20E-12	CL0441
TRINITY_DN16017_c1_g2::TRINITY_DN16017_c1_g2_i2::g.60617::m.60617	8	20,7	60,916	30,436	PF00076.21	RRM_1	71,6	3,30E-20	CL0221
TRINITY_DN16019_c1_g2::TRINITY_DN16019_c1_g2_i3::g.60717::m.60717	1	5,6	20,608	1,8929					
TRINITY_DN16024_c0_g2::TRINITY_DN16024_c0_g2_i5::g.60694::m.60694	7	22,2	43,891	23,536	PF00676.19	E1_dh	400	4,60E-120	CL0254
TRINITY_DN16026_c0_g1::TRINITY_DN16026_c0_g1_i2::g.60976::m.60976	8	4,6	286,16	15,484					

TRINITY_DN16028_c0_g1::TRINITY_DN16028_c0_g1_i7::g.60828::m.60828	3	9,4	48,896	8,1989	PF06159.12	DUF974	230	3,40E-68	No_clan
TRINITY_DN16029_c2_g3::TRINITY_DN16029_c2_g3_i1::g.61032::m.61032	5	34,3	22,2	27,488	PF08534.9	Redoxin	82,1	2,90E-23	CL0172
TRINITY_DN16031_c0_g3::TRINITY_DN16031_c0_g3_i1::g.60905::m.60905	13	27	70,781	105,44	PF00400.31	WD40	16,6	0,0099	CL0186
TRINITY_DN16032_c0_g1::TRINITY_DN16032_c0_g1_i1::g.60895::m.60895	14	55,8	33,429	2,0863	PF00190.21	Cupin_1	72,6	2,40E-20	CL0029
TRINITY_DN16032_c0_g1::TRINITY_DN16032_c0_g1_i2::g.60897::m.60897	16	52	38,52	21,27	PF00190.21	Cupin_1	100,6	5,40E-29	CL0029
TRINITY_DN16032_c0_g1::TRINITY_DN16032_c0_g1_i3::g.60899::m.60899	16	52,8	38,532	323,31	PF00190.21	Cupin_1	100,6	5,40E-29	CL0029
TRINITY_DN16032_c0_g1::TRINITY_DN16032_c0_g1_i4::g.60901::m.60901	15	54,5	38,345	64,057	PF00190.21	Cupin_1	100,7	5,30E-29	CL0029
TRINITY_DN16035_c3_g1::TRINITY_DN16035_c3_g1_i2::g.61026::m.61026	3	11	53,598	8,717	PF03909.16	BSD	58,3	5,00E-16	No_clan
TRINITY_DN16038_c1_g1::TRINITY_DN16038_c1_g1_i5::g.61002::m.61002	9	26,6	57,399	30,115	PF00224.20	PK	387	6,10E-116	CL0151
TRINITY_DN16040_c0_g1::TRINITY_DN16040_c0_g1_i12::g.61056::m.61056	9	13,9	114,53	18,787	PF12515.7	CaATP_NAI	67,2	6,20E-19	No_clan
TRINITY_DN16041_c1_g2::TRINITY_DN16041_c1_g2_i6::g.61105::m.61105	2	12,4	28,066	8,1951	PF00291.24	PALP	85,1	5,10E-24	No_clan
TRINITY_DN16049_c0_g2::TRINITY_DN16049_c0_g2_i3::g.60387::m.60387	1	9,1	25,488	2,0518	PF00106.24	adh_short	170,2	3,30E-50	CL0063
TRINITY_DN16055_c0_g1::TRINITY_DN16055_c0_g1_i6::g.61225::m.61225	3	7,2	73,09	4,576	PF02841.13	GBP_C	32	7,70E-08	CL0023
TRINITY_DN16055_c0_g3::TRINITY_DN16055_c0_g3_i1::g.61219::m.61219	12	32,7	53,318	38,151	PF00171.21	Aldedh	577,9	1,10E-173	CL0099
TRINITY_DN16056_c1_g1::TRINITY_DN16056_c1_g1_i8::g.61254::m.61254	2	9	32,79	2,0054	PF04144.12	SCAMP	190,2	3,50E-56	No_clan
TRINITY_DN16058_c1_g1::TRINITY_DN16058_c1_g1_i7::g.61245::m.61245	5	17,5	43,417	9,0708	PF00787.23	PX	48,1	8,80E-13	No_clan
TRINITY_DN16061_c2_g1::TRINITY_DN16061_c2_g1_i1::g.61310::m.61310	9	22,1	49,948	97,11	PF00156.26	Pribosyltran	35,8	4,70E-09	CL0533
TRINITY_DN16061_c2_g2::TRINITY_DN16061_c2_g2_i3::g.61317::m.61317	10	49,6	29,643	77,857	PF00231.18	ATP-synt	241,2	1,60E-71	No_clan
TRINITY_DN16066_c2_g3::TRINITY_DN16066_c2_g3_i1::g.61892::m.61892	2	19,1	21,902	7,9392					
TRINITY_DN16074_c1_g1::TRINITY_DN16074_c1_g1_i7::g.61513::m.61513	4	5,6	100,73	34,332	PF13418.5	Kelch_4	26,7	3,80E-06	CL0186
TRINITY_DN16077_c0_g5::TRINITY_DN16077_c0_g5_i1::g.61752::m.61752	5	30,5	24,529	-2	PF00091.24	Tubulin	209,8	4,10E-62	CL0566

TRINITY_DN16082_c0_g1::TRINITY_DN16082_c0_g1_i2::g.61608::m.61608	4	9,1	58,458	3,102	PF00483.22	NTP_transferase	257,9	8,70E-77	CL0110
TRINITY_DN16086_c0_g2::TRINITY_DN16086_c0_g2_i6::g.61825::m.61825	1	3,8	51,807	2,3013					
TRINITY_DN16090_c0_g1::TRINITY_DN16090_c0_g1_i3::g.61630::m.61630	2	5,6	51,757	3,1287					
TRINITY_DN19086_c1_g1::TRINITY_DN19086_c1_g1_i6::g.111724::m.111724	1	10	12,053	2,211	PF00350.22	Dynamin_N	33,9	2,90E-08	CL0023
TRINITY_DN16101_c1_g1::TRINITY_DN16101_c1_g1_i2::g.61978::m.61978	13	18	105,07	34,224	PF00690.25	Cation_ATPase_N	50,1	1,50E-13	No_clan
TRINITY_DN16102_c2_g2::TRINITY_DN16102_c2_g2_i1::g.62195::m.62195	3	22,6	16,562	2,6125					
TRINITY_DN16102_c2_g6::TRINITY_DN16102_c2_g6_i1::g.62197::m.62197	5	26,5	21,723	11,579	PF00557.23	Peptidase_M24	85,8	3,00E-24	No_clan
TRINITY_DN16105_c7_g3::TRINITY_DN16105_c7_g3_i3::g.62193::m.62193	6	34,1	25,382	21,711	PF00635.25	Motile_Sperm	97,2	4,40E-28	CL0556
TRINITY_DN16110_c4_g1::TRINITY_DN16110_c4_g1_i10::g.62321::m.62321	2	9,5	30,272	2,7695	PF07250.10	Glyoxal_oxid_N	290,3	8,50E-87	No_clan
TRINITY_DN16110_c4_g1::TRINITY_DN16110_c4_g1_i11::g.62324::m.62324	1	11	17,176	2,9619	PF07250.10	Glyoxal_oxid_N	56,7	1,80E-15	No_clan
TRINITY_DN16112_c0_g1::TRINITY_DN16112_c0_g1_i8::g.62808::m.62808	25	63,7	52,163	323,31	PF01704.17	UDPGP	613,7	1,20E-184	CL0110
TRINITY_DN16112_c0_g1::TRINITY_DN16112_c0_g1_i3::g.62802::m.62802	8	47,5	19,887	87,836	PF01704.17	UDPGP	68,2	4,80E-19	CL0110
TRINITY_DN16113_c1_g1::TRINITY_DN16113_c1_g1_i2::g.62243::m.62243	9	21,1	58,348	20,407	PF00118.23	Cpn60_TCP1	286	4,50E-85	No_clan
TRINITY_DN16118_c1_g1::TRINITY_DN16118_c1_g1_i2::g.62411::m.62411	2	13,1	26,46	5,278	PF00153.26	Mito_carr	69,6	1,50E-19	No_clan
TRINITY_DN16119_c4_g1::TRINITY_DN16119_c4_g1_i1::g.62575::m.62575	2	6,3	61,563	3,6299	PF04810.14	zf-Sec23_Sec24	26,7	4,00E-06	No_clan
TRINITY_DN16119_c4_g3::TRINITY_DN16119_c4_g3_i2::g.62577::m.62577	1	9,8	21,853	2,7789	PF04815.14	Sec23_helical	40,1	2,30E-10	No_clan
TRINITY_DN16121_c0_g1::TRINITY_DN16121_c0_g1_i2::g.62465::m.62465	1	21	13,2	43,368	PF01217.19	Clat_adaptor_s	56,3	3,00E-15	CL0212
TRINITY_DN16121_c0_g1::TRINITY_DN16121_c0_g1_i8::g.62467::m.62467	2	20,8	11,942	48,904	PF01217.19	Clat_adaptor_s	46,3	3,70E-12	CL0212
TRINITY_DN16123_c0_g2::TRINITY_DN16123_c0_g2_i3::g.62404::m.62404	5	14,4	46,501	6,3046	PF00270.28	DEAD	143,8	4,20E-42	CL0023
TRINITY_DN16125_c0_g1::TRINITY_DN16125_c0_g1_i5::g.62472::m.62472	2	21,9	16,369	3,728	PF13023.5	HD_3	124,8	2,90E-36	CL0237
TRINITY_DN16126_c1_g1::TRINITY_DN16126_c1_g1_i17::g.62053::m.62053	2	11,1	24,922	3,2577	PF00202.20	Aminotran_3	108,1	3,60E-31	CL0061

TRINITY_DN16126_c1_g1::TRINITY_DN16126_c1_g1_i14::g.62052::m.62052	1	4,4	52,476	3,4716	PF00202.20	Aminotran_3	318,1	6,30E-95	CL0061
TRINITY_DN16128_c0_g1::TRINITY_DN16128_c0_g1_i5::g.62674::m.62674	2	5,2	65,871	2,3635	PF00388.18	PI-PLC-X	167,9	9,40E-50	CL0384
TRINITY_DN16131_c0_g1::TRINITY_DN16131_c0_g1_i1::g.62590::m.62590	2	6,5	68,891	2,67	PF10291.8	muHD	38,7	7,10E-10	CL0448
TRINITY_DN16132_c1_g1::TRINITY_DN16132_c1_g1_i4::g.62630::m.62630	8	30,4	18,085	259,47	PF13833.5	EF-hand_8	51,1	7,80E-14	CL0220
TRINITY_DN16132_c1_g2::TRINITY_DN16132_c1_g2_i1::g.62633::m.62633	9	41,6	16,967	323,31	PF13499.5	EF-hand_7	55,5	5,30E-15	CL0220
TRINITY_DN16133_c0_g4::TRINITY_DN16133_c0_g4_i5::g.62653::m.62653	3	11,9	25,636	4,915	PF00364.21	Biotin_lipoyl	50,1	1,70E-13	CL0105
TRINITY_DN16134_c1_g1::TRINITY_DN16134_c1_g1_i3::g.62771::m.62771	4	19,1	36,733	10,354	PF00005.26	ABC_tran	58,1	1,20E-15	CL0023
TRINITY_DN16136_c0_g1::TRINITY_DN16136_c0_g1_i4::g.62642::m.62642	9	43,1	32,955	42,182	PF02817.16	E3_binding	53,7	1,70E-14	No_clan
TRINITY_DN16138_c0_g1::TRINITY_DN16138_c0_g1_i2::g.62708::m.62708	3	13	40,9	9,7617	PF06068.12	TIP49	494,4	2,10E-148	CL0023
TRINITY_DN16140_c1_g1::TRINITY_DN16140_c1_g1_i18::g.63031::m.63031	1	19,2	13,51	7,8829					
TRINITY_DN16144_c0_g3::TRINITY_DN16144_c0_g3_i9::g.62076::m.62076	6	19,7	49,103	27,786					
TRINITY_DN16146_c1_g1::TRINITY_DN16146_c1_g1_i2::g.62212::m.62212	3	6,6	73,624	3,2977					
TRINITY_DN16157_c0_g1::TRINITY_DN16157_c0_g1_i7::g.62500::m.62500	2	5,1	55,187	4,2533	PF00067.21	p450	207,2	3,70E-61	No_clan
TRINITY_DN16163_c4_g1::TRINITY_DN16163_c4_g1_i1::g.63306::m.63306	5	29,1	28,698	61,285	PF00295.16	Glyco_hydro_28	229	7,00E-68	CL0268
TRINITY_DN16163_c6_g1::TRINITY_DN16163_c6_g1_i3::g.63330::m.63330	5	33,7	26,72	323,31	PF00295.16	Glyco_hydro_28	61,5	6,30E-17	CL0268
TRINITY_DN16164_c3_g2::TRINITY_DN16164_c3_g2_i1::g.62975::m.62975	2	13,6	24,637	3,6071	PF05755.11	REF	268,4	4,00E-80	No_clan
TRINITY_DN16168_c0_g1::TRINITY_DN16168_c0_g1_i6::g.63149::m.63149	15	22,1	97,214	32,893	PF01851.21	PC_rep	21,3	0,00024	CL0020
TRINITY_DN16170_c0_g1::TRINITY_DN16170_c0_g1_i3::g.63133::m.63133	4	9,7	76,767	5,6992	PF00501.27	AMP-binding	345,9	2,50E-103	CL0378
TRINITY_DN16171_c0_g1::TRINITY_DN16171_c0_g1_i2::g.63190::m.63190	1	2,5	51,298	2,1432	PF00173.27	Cyt-b5	73,9	8,00E-21	No_clan
TRINITY_DN16184_c0_g3::TRINITY_DN16184_c0_g3_i5::g.63369::m.63369	6	22	42,154	17,505	PF03088.15	Str_synth	105,6	1,00E-30	CL0186
TRINITY_DN16191_c2_g1::TRINITY_DN16191_c2_g1_i7::g.63681::m.63681	12	24,5	61,464	98,244	PF00307.30	CH	58,4	6,60E-16	CL0188

TRINITY_DN16192_c0_g2::TRINITY_DN16192_c0_g2_i1::g.63470::m.63470	5	8,5	70,878	11,321	PF02516.13	STT3	403,8	1,10E-120	CL0111
TRINITY_DN16195_c0_g1::TRINITY_DN16195_c0_g1_i3::g.63589::m.63589	1	17,3	12,426	4,8091	PF03080.14	Neprosin	82,7	2,30E-23	No_clan
TRINITY_DN16200_c0_g2::TRINITY_DN16200_c0_g2_i2::g.62796::m.62796	1	7,4	29,132	2,7994	PF13646.5	HEAT_2	58,5	5,90E-16	CL0020
TRINITY_DN16201_c0_g1::TRINITY_DN16201_c0_g1_i1::g.62689::m.62689	10	52,2	23,963	22,059	PF00347.22	Ribosomal_L6	47,7	1,80E-12	No_clan
TRINITY_DN16201_c3_g1::TRINITY_DN16201_c3_g1_i2::g.62696::m.62696	1	14,5	12,461	2,7782	PF01780.18	Ribosomal_L37ae	132,1	5,30E-39	CL0167
TRINITY_DN16210_c2_g2::TRINITY_DN16210_c2_g2_i2::g.64102::m.64102	7	44,8	22,24	68,689	PF00071.21	Ras	169,9	3,00E-50	CL0023
TRINITY_DN16211_c0_g2::TRINITY_DN16211_c0_g2_i6::g.63944::m.63944	2	2,7	57,452	1,9376	PF16876.4	Lipin_mid	51,2	9,70E-14	No_clan
TRINITY_DN16212_c0_g1::TRINITY_DN16212_c0_g1_i2::g.63955::m.63955	6	25,4	37,06	37,292	PF17284.1	Spermine_synt_N	86,5	7,60E-25	No_clan
TRINITY_DN16212_c0_g2::TRINITY_DN16212_c0_g2_i5::g.63967::m.63967	1	6,5	23,547	2,0684	PF05903.13	Peptidase_C97	155,6	7,50E-46	CL0125
TRINITY_DN16215_c5_g2::TRINITY_DN16215_c5_g2_i7::g.63985::m.63985	10	23,4	65,792	22,162	PF00549.18	Ligase_CoA	46,2	3,80E-12	CL0506
TRINITY_DN16216_c0_g1::TRINITY_DN16216_c0_g1_i6::g.64074::m.64074	6	7,3	109,32	10,658	PF01602.19	Adaptin_N	367,5	9,40E-110	CL0020
TRINITY_DN16217_c1_g2::TRINITY_DN16217_c1_g2_i6::g.64087::m.64087	2	6,1	43,543	3,3718	PF00400.31	WD40	13,3	0,11	CL0186
TRINITY_DN16217_c1_g2::TRINITY_DN16217_c1_g2_i5::g.64084::m.64084	1	5	50,666	3,3924	PF01435.17	Peptidase_M48	107,4	7,10E-31	CL0126
TRINITY_DN16218_c1_g2::TRINITY_DN16218_c1_g2_i6::g.64375::m.64375	4	20,9	25,635	8,5665	PF00571.27	CBS	50,6	1,80E-13	No_clan
TRINITY_DN16222_c0_g1::TRINITY_DN16222_c0_g1_i6::g.64118::m.64118	2	17,8	19,188	4,2575	PF11416.7	Syntaxin-5_N	28,5	5,70E-07	No_clan
TRINITY_DN16222_c1_g2::TRINITY_DN16222_c1_g2_i6::g.64132::m.64132	3	6,2	66,341	5,6569	PF00069.24	Pkinase	247,4	1,40E-73	CL0016
TRINITY_DN16223_c1_g2::TRINITY_DN16223_c1_g2_i2::g.64137::m.64137	4	35,8	17,321	10,597	PF08534.9	Redoxin	114,5	3,00E-33	CL0172
TRINITY_DN16227_c0_g1::TRINITY_DN16227_c0_g1_i8::g.64252::m.64252	6	43,5	19,874	106,03	PF01765.18	RRF	211,8	4,90E-63	No_clan
TRINITY_DN16231_c1_g1::TRINITY_DN16231_c1_g1_i4::g.64294::m.64294	4	11,5	47,591	9,2172	PF01238.20	PMI_typeI	362,7	2,20E-108	CL0029
TRINITY_DN16233_c2_g1::TRINITY_DN16233_c2_g1_i1::g.64327::m.64327	4	15,1	32,047	8,2136	PF00153.26	Mito_carr	56,1	2,40E-15	No_clan

TRINITY_DN16235_c0_g1::TRINITY_DN16235_c0_g1_i5::g.64344::m.64344	6	11,2	76,703	4,0267	PF00501.27	AMP-binding	349,8	1,50E-104	CL0378
TRINITY_DN16236_c1_g2::TRINITY_DN16236_c1_g2_i1::g.64353::m.64353	8	27,5	27,518	19,507					
TRINITY_DN16238_c3_g1::TRINITY_DN16238_c3_g1_i4::g.64390::m.64390	7	17,5	59,757	208,89	PF00150.17	Cellulase	82,9	2,40E-23	CL0058
TRINITY_DN16240_c0_g1::TRINITY_DN16240_c0_g1_i3::g.64405::m.64405	2	3,9	83,456	2,9502	PF02922.17	CBM_48	74,8	4,90E-21	CL0369
TRINITY_DN16241_c0_g1::TRINITY_DN16241_c0_g1_i2::g.63739::m.63739	1	5,9	26,295	2,0836	PF01370.20	Epimerase	48,5	7,20E-13	CL0063
TRINITY_DN16241_c1_g4::TRINITY_DN16241_c1_g4_i5::g.63753::m.63753	3	9,9	63,895	5,5944	PF03630.13	Fumble	307,9	7,60E-92	CL0108
TRINITY_DN16243_c0_g1::TRINITY_DN16243_c0_g1_i2::g.64445::m.64445	7	18,9	57,609	14,68	PF01496.18	V_ATPase_I	539	1,50E-161	No_clan
TRINITY_DN16244_c0_g2::TRINITY_DN16244_c0_g2_i4::g.64523::m.64523	1	14,3	18,466	3,8201					
TRINITY_DN16246_c0_g1::TRINITY_DN16246_c0_g1_i1::g.63895::m.63895	8	30	34,797	310,27	PF00248.20	Aldo_ket_red	194	2,90E-57	No_clan
TRINITY_DN16246_c1_g1::TRINITY_DN16246_c1_g1_i7::g.63898::m.63898	4	40,2	11,986	74,618	PF00254.27	FKBP_C	89,6	1,20E-25	CL0487
TRINITY_DN16248_c0_g1::TRINITY_DN16248_c0_g1_i2::g.64527::m.64527	7	22,1	45,803	14,635	PF09298.10	FAA_hydrolase_N	115,2	1,40E-33	No_clan
TRINITY_DN16248_c1_g2::TRINITY_DN16248_c1_g2_i8::g.64559::m.64559	9	60,1	15,079	28,74	PF00459.24	Inositol_P	98,1	5,80E-28	CL0171
TRINITY_DN16248_c1_g2::TRINITY_DN16248_c1_g2_i1::g.64537::m.64537	1	8,7	14,334	62,511	PF00459.24	Inositol_P	37	2,30E-09	CL0171
TRINITY_DN16257_c0_g1::TRINITY_DN16257_c0_g1_i2::g.64601::m.64601	2	4	75,994	3,9196	PF13532.5	2OG-FeII_Oxy_2	29,4	8,00E-07	CL0029
TRINITY_DN16262_c1_g2::TRINITY_DN16262_c1_g2_i1::g.64873::m.64873	3	24,3	11,865	7,5717	PF00759.18	Glyco_hydro_9	76,4	2,60E-21	CL0059
TRINITY_DN16262_c1_g3::TRINITY_DN16262_c1_g3_i2::g.64875::m.64875	1	14,8	13,155	3,1489	PF00759.18	Glyco_hydro_9	116,7	1,60E-33	CL0059
TRINITY_DN16267_c0_g1::TRINITY_DN16267_c0_g1_i3::g.64801::m.64801	3	6,9	59,046	6,1914	PF03398.13	Ist1	198,2	7,70E-59	No_clan
TRINITY_DN16268_c4_g1::TRINITY_DN16268_c4_g1_i16::g.64855::m.64855	5	11,4	72,342	9,6818	PF13320.5	DUF4091	62,8	2,40E-17	No_clan
TRINITY_DN16270_c0_g2::TRINITY_DN16270_c0_g2_i15::g.64899::m.64899	2	7,5	36,468	2,4277					
TRINITY_DN16271_c1_g1::TRINITY_DN16271_c1_g1_i4::g.64790::m.64790	1	11	12,508	2,0014					
TRINITY_DN16272_c1_g2::TRINITY_DN16272_c1_g2_i3::g.64808::m.64808	10	30,5	49,154	27,028	PF01546.27	Peptidase_M20	69,7	2,50E-19	CL0035

TRINITY_DN16277_c1_g3::TRINITY_DN16277_c1_g3_i4::g.64929::m.64929	3	33,1	19,544	11,861					
TRINITY_DN16278_c2_g2::TRINITY_DN16278_c2_g2_i8::g.65116::m.65116	1	7,1	28,564	2,6064	PF01556.17	DnaJ_C	152,4	8,30E-45	No_clan
TRINITY_DN16280_c0_g1::TRINITY_DN16280_c0_g1_i6::g.65080::m.65080	2	8,1	29,617	4,0495	PF13417.5	GST_N_3	52,6	4,00E-14	CL0172
TRINITY_DN16282_c1_g3::TRINITY_DN16282_c1_g3_i1::g.64973::m.64973	6	14,8	60,215	9,099	PF01474.15	DAHP_synth_2	651,3	5,10E-196	CL0036
TRINITY_DN16286_c1_g1::TRINITY_DN16286_c1_g1_i5::g.65098::m.65098	6	29,1	43,296	20,487	PF01412.17	ArfGap	117,8	2,40E-34	No_clan
TRINITY_DN16290_c1_g2::TRINITY_DN16290_c1_g2_i6::g.65201::m.65201	6	14,6	66,785	10,854	PF00390.18	malic	254,6	4,40E-76	CL0603
TRINITY_DN16295_c1_g2::TRINITY_DN16295_c1_g2_i1::g.65228::m.65228	3	15,8	32,022	6,8114	PF00069.24	Pkinase	174,6	2,20E-51	CL0016
TRINITY_DN16295_c1_g3::TRINITY_DN16295_c1_g3_i8::g.65237::m.65237	1	3,1	41,395	3,0264	PF01975.16	SurE	169,2	8,30E-50	No_clan
TRINITY_DN16296_c2_g1::TRINITY_DN16296_c2_g1_i8::g.65364::m.65364	2	14,6	34,444	8,1883	PF00106.24	adh_short	87	9,90E-25	CL0063
TRINITY_DN16298_c0_g1::TRINITY_DN16298_c0_g1_i6::g.65227::m.65227	4	29,8	28,824	6,8016	PF03807.16	F420_oxidored	69,9	1,90E-19	CL0063
TRINITY_DN16303_c1_g1::TRINITY_DN16303_c1_g1_i9::g.65704::m.65704	3	11,4	35,295	6,3274					
TRINITY_DN16303_c1_g2::TRINITY_DN16303_c1_g2_i1::g.65686::m.65686	4	24,2	20,71	6,7562					
TRINITY_DN16305_c0_g1::TRINITY_DN16305_c0_g1_i3::g.65508::m.65508	5	18,9	24,255	12,814	PF04969.15	CS	40	5,70E-10	CL0190
TRINITY_DN16305_c1_g1::TRINITY_DN16305_c1_g1_i3::g.65515::m.65515	1	3,6	47,869	3,2472	PF00226.30	DnaJ	92,1	1,60E-26	CL0392
TRINITY_DN16306_c1_g1::TRINITY_DN16306_c1_g1_i3::g.65480::m.65480	2	28,9	13,22	4,169					
TRINITY_DN16306_c1_g2::TRINITY_DN16306_c1_g2_i2::g.65481::m.65481	1	7,3	13,516	1,9272	PF00561.19	Abhydrolase_1	49	5,80E-13	CL0028
TRINITY_DN16307_c2_g1::TRINITY_DN16307_c2_g1_i9::g.65550::m.65550	9	19,4	63,293	18,243	PF02985.21	HEAT	17,7	0,0027	CL0020
TRINITY_DN16307_c2_g3::TRINITY_DN16307_c2_g3_i3::g.65541::m.65541	3	6,9	59,946	-2	PF02985.21	HEAT	21,1	0,00022	CL0020
TRINITY_DN16308_c0_g1::TRINITY_DN16308_c0_g1_i5::g.65986::m.65986	2	10,7	25,606	3,8267	PF00153.26	Mito_carr	57,2	1,10E-15	No_clan
TRINITY_DN16309_c0_g1::TRINITY_DN16309_c0_g1_i5::g.65915::m.65915	2	17,1	16,423	4,2341	PF04979.13	IPP-2	47,9	1,90E-12	No_clan
TRINITY_DN16310_c4_g1::TRINITY_DN16310_c4_g1_i21::g.65586::m.65586	2	14,8	22,057	10,889	PF00574.22	CLP_protease	225,3	4,70E-67	CL0127

TRINITY_DN16311_c1_g1::TRINITY_DN16311_c1_g1_i8::g.65782::m.65782	3	5,9	56,583	6,3388	PF00083.23	Sugar_tr	350,6	1,20E-104	CL0015
TRINITY_DN16315_c0_g1::TRINITY_DN16315_c0_g1_i3::g.65602::m.65602	2	5	61,304	4,5072	PF01073.18	3Beta_HSD	251,7	6,20E-75	CL0063
TRINITY_DN16317_c2_g1::TRINITY_DN16317_c2_g1_i4::g.65631::m.65631	8	25,7	42,821	64,051	PF01370.20	Epimerase	201,4	1,40E-59	CL0063
TRINITY_DN16319_c0_g3::TRINITY_DN16319_c0_g3_i4::g.65613::m.65613	1	11,8	16,798	2,6088					
TRINITY_DN16319_c0_g6::TRINITY_DN16319_c0_g6_i2::g.65617::m.65617	2	7,1	52,97	8,0847	PF02845.15	CUE	34	1,50E-08	CL0214
TRINITY_DN16321_c0_g3::TRINITY_DN16321_c0_g3_i5::g.65822::m.65822	3	10,9	40,526	6,8697	PF01070.17	FMN_dh	459	8,60E-138	CL0036
TRINITY_DN16324_c2_g1::TRINITY_DN16324_c2_g1_i11::g.65876::m.65876	8	15,4	81,351	53,612	PF00686.18	CBM_20	24,2	2,20E-05	CL0369
TRINITY_DN16328_c4_g1::TRINITY_DN16328_c4_g1_i3::g.65859::m.65859	4	36,3	13,286	17,229					
TRINITY_DN16328_c4_g1::TRINITY_DN16328_c4_g1_i2::g.65854::m.65854	3	38	10,989	4,9739					
TRINITY_DN16328_c4_g2::TRINITY_DN16328_c4_g2_i8::g.65867::m.65867	2	7,5	29,318	3,0313	PF13561.5	adh_short_C2	129,5	1,30E-37	CL0063
TRINITY_DN16330_c0_g1::TRINITY_DN16330_c0_g1_i8::g.66108::m.66108	4	18,5	34,758	6,7756	PF03081.14	Exo70	340,9	8,40E-102	CL0295
TRINITY_DN16337_c1_g1::TRINITY_DN16337_c1_g1_i12::g.66068::m.66068	3	12,5	34,054	26,333					
TRINITY_DN16337_c1_g3::TRINITY_DN16337_c1_g3_i2::g.66071::m.66071	2	6,2	43,944	20,578	PF00380.18	Ribosomal_S9	158,8	7,20E-47	CL0329
TRINITY_DN16339_c2_g1::TRINITY_DN16339_c2_g1_i6::g.65997::m.65997	6	25,9	33,045	16,317	PF03152.13	UFD1	270,4	4,20E-81	CL0402
TRINITY_DN16339_c2_g2::TRINITY_DN16339_c2_g2_i2::g.65998::m.65998	7	8,7	107,65	9,9773	PF02190.15	LON_substr_bdg	118,5	3,20E-34	CL0178
TRINITY_DN16342_c0_g1::TRINITY_DN16342_c0_g1_i1::g.66087::m.66087	9	30,5	54,465	65,275	PF00171.21	Aldedh	437,8	3,60E-131	CL0099
TRINITY_DN16344_c0_g1::TRINITY_DN16344_c0_g1_i6::g.66181::m.66181	3	13,9	39,459	4,4775	PF05822.11	UMPH-1	312,4	1,90E-93	CL0137
TRINITY_DN16345_c0_g1::TRINITY_DN16345_c0_g1_i2::g.66198::m.66198	27	36,6	92,147	323,31	PF00168.29	C2	56	3,60E-15	CL0154
TRINITY_DN16345_c2_g1::TRINITY_DN16345_c2_g1_i1::g.66206::m.66206	2	21	12,12	5,2468	PF08991.9	MTCP1	52,4	4,10E-14	CL0351
TRINITY_DN16356_c0_g1::TRINITY_DN16356_c0_g1_i13::g.66037::m.66037	2	9,1	25,558	2,9887	PF04791.15	LMBR1	98	5,50E-28	No_clan

TRINITY_DN16358_c2_g1::TRINITY_DN16358_c2_g1_i5::g.66392::m.66392	2	14,5	26,234	2,22	PF00490.20	ALAD	347,2	7,40E-104	CL0036
TRINITY_DN16361_c1_g1::TRINITY_DN16361_c1_g1_i5::g.66288::m.66288	12	27,5	60,754	64,314	PF00675.19	Peptidase_M16	127,7	3,10E-37	CL0094
TRINITY_DN16364_c0_g1::TRINITY_DN16364_c0_g1_i6::g.66368::m.66368	25	48,6	68,722	132,95	PF02874.22	ATP-synt_ab_N	51,4	1,10E-13	CL0275
TRINITY_DN16367_c2_g1::TRINITY_DN16367_c2_g1_i2::g.66527::m.66527	3	13,4	39,93	21,91	PF01678.18	DAP_epimerase	121,4	2,20E-35	CL0288
TRINITY_DN16369_c2_g1::TRINITY_DN16369_c2_g1_i6::g.66520::m.66520	3	7,2	59,397	27,953					
TRINITY_DN16369_c2_g2::TRINITY_DN16369_c2_g2_i2::g.66506::m.66506	5	50,9	12,259	36,553	PF00210.23	Ferritin	49,6	3,60E-13	CL0044
TRINITY_DN16369_c2_g3::TRINITY_DN16369_c2_g3_i1::g.66518::m.66518	3	18,1	18,213	8,7135	PF00210.23	Ferritin	52,6	4,00E-14	CL0044
TRINITY_DN16370_c1_g1::TRINITY_DN16370_c1_g1_i6::g.66493::m.66493	3	6,7	51,74	3,9848	PF03071.14	GNT-I	695,4	2,40E-209	CL0110
TRINITY_DN16376_c0_g2::TRINITY_DN16376_c0_g2_i2::g.66583::m.66583	24	33,4	97,919	323,31	PF01433.19	Peptidase_M1	312,2	1,80E-93	CL0126
TRINITY_DN16378_c0_g2::TRINITY_DN16378_c0_g2_i3::g.66649::m.66649	11	40,8	31,369	56,798	PF00481.20	PP2C	229	6,50E-68	CL0238
TRINITY_DN16381_c2_g1::TRINITY_DN16381_c2_g1_i3::g.66693::m.66693	17	22,6	120,34	44,119	PF05193.20	Peptidase_M16_C	94	1,00E-26	CL0094
TRINITY_DN16382_c2_g3::TRINITY_DN16382_c2_g3_i2::g.66735::m.66735	2	9	31,712	2,908	PF01266.23	DAO	126,6	1,50E-36	CL0063
TRINITY_DN16384_c1_g4::TRINITY_DN16384_c1_g4_i4::g.66906::m.66906	2	4,5	55,795	5,1647	PF17047.4	SMP_LBD	62,7	2,80E-17	CL0648
TRINITY_DN16387_c0_g7::TRINITY_DN16387_c0_g7_i3::g.66774::m.66774	1	8,1	14,919	2,3998	PF03908.12	Sec20	30,5	2,30E-07	CL0147
TRINITY_DN16390_c0_g1::TRINITY_DN16390_c0_g1_i2::g.66783::m.66783	5	14,2	50,675	9,0513	PF00013.28	KH_1	41,6	7,30E-11	CL0007
TRINITY_DN16399_c1_g2::TRINITY_DN16399_c1_g2_i5::g.67010::m.67010	7	20,4	52,388	15,688	PF00285.20	Citrate_synt	347	1,10E-103	No_clan
TRINITY_DN16402_c0_g3::TRINITY_DN16402_c0_g3_i1::g.67045::m.67045	2	15,1	20,039	5,9818	PF01494.18	FAD_binding_3	60,4	1,70E-16	CL0063
TRINITY_DN16403_c4_g2::TRINITY_DN16403_c4_g2_i2::g.67059::m.67059	1	12,7	13,755	2,5893	PF00507.18	Oxidored_q4	126,7	2,90E-37	No_clan
TRINITY_DN16406_c2_g3::TRINITY_DN16406_c2_g3_i1::g.67214::m.67214	4	24,6	23,913	16,679	PF01294.17	Ribosomal_L13e	265	3,00E-79	No_clan
TRINITY_DN16408_c1_g1::TRINITY_DN16408_c1_g1_i1::g.67131::m.67131	5	13,1	56,175	32,588					
TRINITY_DN16410_c3_g3::TRINITY_DN16410_c3_g3_i5::g.67165::m.67165	8	27,7	49,967	46,374	PF00201.17	UDPGT	46	3,00E-12	CL0113

TRINITY_DN16413_c0_g1::TRINITY_DN16413_c0_g1_i2::g.67167::m.67167	1	14,3	18,904	2,5269	PF00107.25	ADH_zinc_N	91,9	2,70E-26	CL0063
TRINITY_DN16420_c0_g1::TRINITY_DN16420_c0_g1_i2::g.67378::m.67378	15	41,3	47,915	52,879	PF02798.19	GST_N	56,8	2,00E-15	CL0172
TRINITY_DN16420_c0_g2::TRINITY_DN16420_c0_g2_i1::g.67374::m.67374	22	50,1	51,027	323,31	PF02798.19	GST_N	57,4	1,20E-15	CL0172
TRINITY_DN16420_c0_g2::TRINITY_DN16420_c0_g2_i4::g.67379::m.67379	10	39,2	30,276	39,47	PF02798.19	GST_N	58,4	6,40E-16	CL0172
TRINITY_DN16421_c0_g1::TRINITY_DN16421_c0_g1_i1::g.67240::m.67240	11	25	51,796	112,11	PF00251.19	Glyco_hydro_32N	347,4	7,70E-104	CL0143
TRINITY_DN16422_c1_g1::TRINITY_DN16422_c1_g1_i4::g.67346::m.67346	26	45,9	72,965	323,31	PF00012.19	HSP70	905,9	8,50E-273	CL0108
TRINITY_DN16423_c1_g1::TRINITY_DN16423_c1_g1_i12::g.67294::m.67294	3	4,2	125,22	7,2925	PF02854.18	MIF4G	105,2	3,50E-30	CL0020
TRINITY_DN16423_c1_g3::TRINITY_DN16423_c1_g3_i3::g.67278::m.67278	15	37,5	59,027	45,593	PF00587.24	tRNA-synt_2b	64,8	9,10E-18	CL0040
TRINITY_DN16429_c0_g2::TRINITY_DN16429_c0_g2_i3::g.67310::m.67310	2	12,5	24,199	4,2416	PF00887.18	ACBP	96,2	9,20E-28	CL0632
TRINITY_DN16437_c1_g2::TRINITY_DN16437_c1_g2_i4::g.67526::m.67526	14	39,7	51,791	70,172	PF00464.18	SHMT	626,8	1,00E-188	CL0061
TRINITY_DN16438_c0_g4::TRINITY_DN16438_c0_g4_i1::g.67637::m.67637	3	7,6	61,215	5,9057	PF05691.11	Raffinose_syn	858	4,00E-258	CL0058
TRINITY_DN16440_c0_g1::TRINITY_DN16440_c0_g1_i4::g.67503::m.67503	6	11	96,491	19,23	PF00982.20	Glyco_transf_20	606,1	3,90E-182	CL0113
TRINITY_DN16442_c0_g2::TRINITY_DN16442_c0_g2_i5::g.67615::m.67615	3	12,6	29,236	3,8237	PF00294.23	PfkB	202,2	1,00E-59	CL0118
TRINITY_DN16447_c0_g1::TRINITY_DN16447_c0_g1_i1::g.67047::m.67047	5	30,6	21,163	2,131	PF00327.19	Ribosomal_L30	76,3	1,10E-21	No_clan
TRINITY_DN16447_c0_g1::TRINITY_DN16447_c0_g1_i6::g.67050::m.67050	6	27,2	28,444	11,397	PF08079.11	Ribosomal_L30_N	89,3	1,30E-25	No_clan
TRINITY_DN16453_c1_g1::TRINITY_DN16453_c1_g1_i1::g.67791::m.67791	1	10,5	19,539	2,1966	PF00076.21	RRM_1	66	1,80E-18	CL0221
TRINITY_DN16453_c2_g1::TRINITY_DN16453_c2_g1_i14::g.67807::m.67807	3	7,4	55,725	7,5585	PF00557.23	Peptidase_M24	186,1	5,80E-55	No_clan
TRINITY_DN16454_c1_g1::TRINITY_DN16454_c1_g1_i2::g.67727::m.67727	8	25,3	45,853	14,219	PF02518.25	HATPase_c	48,1	1,30E-12	CL0025
TRINITY_DN16454_c2_g1::TRINITY_DN16454_c2_g1_i4::g.67739::m.67739	2	4	60,476	2,8065					
TRINITY_DN16456_c0_g2::TRINITY_DN16456_c0_g2_i7::g.67919::m.67919	2	13	38,356	7,328	PF06552.11	TOM20_plant	26,5	4,30E-06	CL0020

TRINITY_DN16461_c2_g1::TRINITY_DN16461_c2_g1_i2::g.67850::m.67850	1	12,1	19,325	1,9845	PF00501.27	AMP-binding	92,8	1,60E-26	CL0378
TRINITY_DN16462_c1_g1::TRINITY_DN16462_c1_g1_i7::g.68028::m.68028	4	17,1	27,134	40,782	PF02230.15	Abhydrolase_2	140,8	5,10E-41	CL0028
TRINITY_DN16464_c0_g1::TRINITY_DN16464_c0_g1_i9::g.67881::m.67881	1	5,6	48,132	7,0684					
TRINITY_DN16466_c0_g1::TRINITY_DN16466_c0_g1_i6::g.67994::m.67994	2	9,2	49,407	3,0526	PF06911.11	Senescence	161	3,20E-47	No_clan
TRINITY_DN16466_c0_g3::TRINITY_DN16466_c0_g3_i1::g.67992::m.67992	9	25,4	49,2	26,454	PF06911.11	Senescence	148,6	2,00E-43	No_clan
TRINITY_DN16469_c0_g1::TRINITY_DN16469_c0_g1_i7::g.67034::m.67034	2	1,9	127,94	32,909	PF00564.23	PB1	68,6	2,90E-19	CL0072
TRINITY_DN16471_c14_g1::TRINITY_DN16471_c14_g1_i3::g.68132::m.68132	3	9,8	45,418	3,0427					
TRINITY_DN16476_c3_g1::TRINITY_DN16476_c3_g1_i9::g.68231::m.68231	3	9	58,589	10,728	PF03016.14	Exostosin	207,2	2,90E-61	No_clan
TRINITY_DN16479_c1_g2::TRINITY_DN16479_c1_g2_i4::g.68347::m.68347	4	3,8	89,395	6,6239	PF13432.5	TPR_16	19	0,0015	CL0020
TRINITY_DN16483_c1_g1::TRINITY_DN16483_c1_g1_i8::g.68282::m.68282	9	8,3	194,86	21,153	PF16213.4	DCB	94,4	5,80E-27	No_clan
TRINITY_DN16485_c1_g1::TRINITY_DN16485_c1_g1_i5::g.68172::m.68172	4	13,7	39,373	2,5926	PF00365.19	PFK	184,3	2,80E-54	CL0240
TRINITY_DN16487_c1_g1::TRINITY_DN16487_c1_g1_i9::g.68393::m.68393	6	26,2	25,313	18,787					
TRINITY_DN16487_c1_g2::TRINITY_DN16487_c1_g2_i5::g.68395::m.68395	3	23,1	17,263	14,258	PF01849.17	NAC	69,9	1,20E-19	No_clan
TRINITY_DN16487_c1_g6::TRINITY_DN16487_c1_g6_i1::g.68386::m.68386	3	19	20,482	5,1505					
TRINITY_DN16490_c2_g1::TRINITY_DN16490_c2_g1_i1::g.68401::m.68401	5	16,6	45,693	27,051	PF07992.13	Pyr_redox_2	152,6	1,30E-44	CL0063
TRINITY_DN16497_c0_g2::TRINITY_DN16497_c0_g2_i8::g.67601::m.67601	8	14,6	66,157	17,372	PF04068.14	RLI	51,3	6,80E-14	CL0344
TRINITY_DN16497_c0_g5::TRINITY_DN16497_c0_g5_i1::g.67600::m.67600	2	4,6	49,154	2,522	PF01207.16	Dus	248,2	9,00E-74	CL0036
TRINITY_DN16501_c0_g1::TRINITY_DN16501_c0_g1_i7::g.68513::m.68513	4	13,2	48,562	8,4202	PF01370.20	Epimerase	169,8	6,40E-50	CL0063
TRINITY_DN16504_c2_g1::TRINITY_DN16504_c2_g1_i5::g.68713::m.68713	1	6,6	17,35	4,7305	PF00179.25	UQ_con	177,8	8,00E-53	CL0208
TRINITY_DN16506_c3_g1::TRINITY_DN16506_c3_g1_i1::g.68717::m.68717	1	19,2	13,825	14,819	PF01198.18	Ribosomal_L31e	146,5	1,90E-43	No_clan
TRINITY_DN16509_c1_g1::TRINITY_DN16509_c1_g1_i1::g.68768::m.68768	14	33,8	66,917	102,03	PF02219.16	MTHFR	404	3,20E-121	CL0086

TRINITY_DN16513_c0_g2::TRINITY_DN16513_c0_g2_i7::g.68926::m.68926	2	8	42,471	4,2256	PF13419.5	HAD_2	93,3	1,60E-26	CL0137
TRINITY_DN16513_c0_g3::TRINITY_DN16513_c0_g3_i2::g.68923::m.68923	3	15,4	34,72	7,7441	PF00804.24	Syntaxin	233,2	1,90E-69	CL0445
TRINITY_DN16523_c1_g1::TRINITY_DN16523_c1_g1_i4::g.69126::m.69126	4	21,6	33,499	7,6102					
TRINITY_DN16523_c1_g3::TRINITY_DN16523_c1_g3_i4::g.69129::m.69129	9	12,2	117,33	15,57					
TRINITY_DN16526_c1_g2::TRINITY_DN16526_c1_g2_i8::g.69034::m.69034	4	20,8	21,558	72,302	PF03079.13	ARD	208,7	4,70E-62	CL0029
TRINITY_DN16528_c1_g1::TRINITY_DN16528_c1_g1_i4::g.69093::m.69093	2	11,3	24,816	3,6126					
TRINITY_DN16528_c2_g1::TRINITY_DN16528_c2_g1_i3::g.69117::m.69117	3	15,1	26,438	5,0285	PF01301.18	Glyco_hydro_35	261,2	1,60E-77	CL0058
TRINITY_DN16533_c3_g1::TRINITY_DN16533_c3_g1_i1::g.69070::m.69070	3	13,2	40	5,1956					
TRINITY_DN16535_c0_g2::TRINITY_DN16535_c0_g2_i8::g.69172::m.69172	1	2,9	52,048	6,2311	PF00909.20	Ammonium_transp	461,8	1,40E-138	No_clan
TRINITY_DN16542_c2_g2::TRINITY_DN16542_c2_g2_i16::g.69553::m.69553	6	10,2	117,02	4,7442					
TRINITY_DN16542_c2_g2::TRINITY_DN16542_c2_g2_i8::g.69479::m.69479	6	9,3	114,27	11,24					
TRINITY_DN16544_c0_g2::TRINITY_DN16544_c0_g2_i7::g.68626::m.68626	3	21	22,398	14,336	PF02466.18	Tim17	47,5	1,70E-12	No_clan
TRINITY_DN16549_c1_g2::TRINITY_DN16549_c1_g2_i1::g.69658::m.69658	3	22,3	23,536	8,9558					
TRINITY_DN16550_c0_g1::TRINITY_DN16550_c0_g1_i1::g.69273::m.69273	2	6,4	67,483	2,7205	PF02130.16	UPF0054	111,9	1,60E-32	CL0126
TRINITY_DN16551_c0_g1::TRINITY_DN16551_c0_g1_i1::g.69240::m.69240	2	7,6	32,828	2,6907	PF00175.20	NAD_binding_1	61,2	1,20E-16	CL0091
TRINITY_DN16552_c0_g2::TRINITY_DN16552_c0_g2_i1::g.69236::m.69236	2	22,5	11,369	7,5845	PF05042.12	Caleosin	67,7	1,10E-18	CL0220
TRINITY_DN16552_c0_g2::TRINITY_DN16552_c0_g2_i2::g.69237::m.69237	2	16	16	2,7279	PF05042.12	Caleosin	141	3,10E-41	CL0220
TRINITY_DN16555_c1_g6::TRINITY_DN16555_c1_g6_i1::g.69342::m.69342	3	25,5	15,911	19,746	PF01095.18	Pectinesterase	91,8	3,00E-26	CL0268
TRINITY_DN16557_c0_g1::TRINITY_DN16557_c0_g1_i4::g.69370::m.69370	11	26,2	56,808	26,257	PF00013.28	KH_1	41,2	1,00E-10	CL0007
TRINITY_DN16558_c0_g1::TRINITY_DN16558_c0_g1_i2::g.69315::m.69315	16	19,9	140,04	37,058	PF02854.18	MIF4G	27,3	2,40E-06	CL0020
TRINITY_DN16571_c0_g1::TRINITY_DN16571_c0_g1_i1::g.69820::m.69820	2	14,1	26,261	4,2905	PF05172.12	Nup35_RRM	45,5	5,20E-12	CL0221

TRINITY_DN16571_c1_g1::TRINITY_DN16571_c1_g1_i8::g.69835::m.69835	11	61,4	22,404	323,31	PF08718.10	GLTP	153,2	5,60E-45	No_clan
TRINITY_DN16577_c0_g1::TRINITY_DN16577_c0_g1_i6::g.69863::m.69863	3	17,5	29,999	7,2744	PF12146.7	Hydrolase_4	42,6	3,70E-11	CL0028
TRINITY_DN16578_c2_g1::TRINITY_DN16578_c2_g1_i1::g.69884::m.69884	3	3,9	98,117	3,6574	PF02854.18	MIF4G	96,7	1,30E-27	CL0020
TRINITY_DN16580_c0_g3::TRINITY_DN16580_c0_g3_i6::g.69917::m.69917	2	3,9	66,54	3,4102	PF00013.28	KH_1	42,1	5,30E-11	CL0007
TRINITY_DN16581_c1_g3::TRINITY_DN16581_c1_g3_i2::g.69928::m.69928	13	20,1	83,298	99,549	PF00082.21	Peptidase_S8	161	3,60E-47	No_clan
TRINITY_DN17504_c0_g1::TRINITY_DN17504_c0_g1_i2::g.84827::m.84827	2	14,4	14,051	3,8767	PF00125.23	Histone	64,8	8,70E-18	CL0012
TRINITY_DN16589_c2_g3::TRINITY_DN16589_c2_g3_i3::g.69229::m.69229	6	50	15,243	266,59	PF00080.19	Sod_Cu	167,5	1,80E-49	No_clan
TRINITY_DN16594_c0_g2::TRINITY_DN16594_c0_g2_i1::g.69960::m.69960	2	7,1	34,068	4,347	PF00403.25	HMA	43,6	2,70E-11	No_clan
TRINITY_DN16600_c2_g1::TRINITY_DN16600_c2_g1_i15::g.68704::m.68704	1	12,5	13,008	8,6732					
TRINITY_DN16609_c0_g4::TRINITY_DN16609_c0_g4_i3::g.70404::m.70404	2	1,3	179,31	2,363	PF13639.5	zf-RING_2	29,1	8,20E-07	CL0229
TRINITY_DN16612_c3_g2::TRINITY_DN16612_c3_g2_i3::g.70349::m.70349	5	28,9	24,463	26,216	PF00690.25	Cation_ATPase_N	50,6	1,00E-13	No_clan
TRINITY_DN16612_c3_g7::TRINITY_DN16612_c3_g7_i2::g.70355::m.70355	5	23,9	33,241	5,4752	PF00122.19	E1-E2_ATPase	48,1	8,40E-13	No_clan
TRINITY_DN16613_c0_g1::TRINITY_DN16613_c0_g1_i5::g.70442::m.70442	3	6,7	57,235	4,252	PF07899.10	Frigida	313	1,70E-93	No_clan
TRINITY_DN16615_c1_g3::TRINITY_DN16615_c1_g3_i6::g.70426::m.70426	2	5,6	50,335	3,3967	PF00067.21	p450	288,8	6,40E-86	No_clan
TRINITY_DN16616_c1_g1::TRINITY_DN16616_c1_g1_i2::g.70640::m.70640	5	18,2	34,267	36,168					
TRINITY_DN16618_c2_g1::TRINITY_DN16618_c2_g1_i4::g.70494::m.70494	4	8,7	67,972	6,4149	PF04424.12	MINDY_DUB	124,5	1,90E-36	No_clan
TRINITY_DN16619_c0_g1::TRINITY_DN16619_c0_g1_i7::g.70514::m.70514	5	17,2	57,685	12,943	PF00291.24	PALP	163,6	6,20E-48	No_clan
TRINITY_DN16625_c2_g1::TRINITY_DN16625_c2_g1_i8::g.70673::m.70673	7	52	16,925	61,512	PF00071.21	Ras	116,6	7,30E-34	CL0023
TRINITY_DN16625_c3_g1::TRINITY_DN16625_c3_g1_i9::g.70678::m.70678	9	52,2	23,202	20,566	PF00071.21	Ras	186,1	3,00E-55	CL0023
TRINITY_DN16629_c1_g1::TRINITY_DN16629_c1_g1_i1::g.70763::m.70763	4	29,9	14,504	139,55					
TRINITY_DN16629_c2_g3::TRINITY_DN16629_c2_g3_i2::g.70768::m.70768	2	18,8	16,875	3,306					
TRINITY_DN16630_c2_g1::TRINITY_DN16630_c2_g1_i6::g.70777::m.70777	9	60,2	21,504	323,31	PF00244.19	14.03.2003	256,6	1,50E-76	No_clan

TRINITY_DN16630_c2_g2::TRINITY_DN16630_c2_g2_i3::g.70772::m.70772	3	10,5	47,116	7,7305	PF00291.24	PALP	123,3	1,20E-35	No_clan
TRINITY_DN16640_c0_g1::TRINITY_DN16640_c0_g1_i4::g.70902::m.70902	1	8,3	25,981	3,298	PF00642.23	zf-CCCH	30,5	2,30E-07	CL0537
TRINITY_DN16641_c0_g1::TRINITY_DN16641_c0_g1_i7::g.70870::m.70870	1	5,1	30,68	2,0684	PF07690.15	MFS_1	146	1,20E-42	CL0015
TRINITY_DN16642_c3_g1::TRINITY_DN16642_c3_g1_i8::g.71010::m.71010	2	23,2	13,429	9,1777	PF01593.23	Amino_oxidase	62,9	3,20E-17	CL0063
TRINITY_DN16643_c2_g1::TRINITY_DN16643_c2_g1_i2::g.70325::m.70325	1	11,2	18,314	2,7735	PF00569.16	ZZ	33,1	3,20E-08	CL0006
TRINITY_DN16644_c3_g1::TRINITY_DN16644_c3_g1_i2::g.70216::m.70216	4	56,8	12,414	122,19	PF00190.21	Cupin_1	38,7	6,40E-10	CL0029
TRINITY_DN16644_c3_g1::TRINITY_DN16644_c3_g1_i4::g.70221::m.70221	9	23,8	57,36	93,231	PF00190.21	Cupin_1	28,8	7,50E-07	CL0029
TRINITY_DN16649_c0_g2::TRINITY_DN16649_c0_g2_i3::g.71022::m.71022	3	3,5	129,48	5,4767					
TRINITY_DN16650_c2_g2::TRINITY_DN16650_c2_g2_i4::g.71040::m.71040	2	16,8	21,662	6,9982	PF01661.20	Macro	134,7	1,30E-39	CL0223
TRINITY_DN16659_c4_g1::TRINITY_DN16659_c4_g1_i7::g.71135::m.71135	7	14,9	76,035	11,594	PF01417.19	ENTH	29,9	4,50E-07	CL0009
TRINITY_DN16661_c1_g2::TRINITY_DN16661_c1_g2_i5::g.71230::m.71230	2	3,3	74,333	4,0843	PF12899.6	Glyco_hydro_100	722,1	1,90E-217	CL0059
TRINITY_DN16664_c4_g1::TRINITY_DN16664_c4_g1_i4::g.71662::m.71662	2	15,9	18,882	5,9676					
TRINITY_DN16667_c0_g2::TRINITY_DN16667_c0_g2_i1::g.71232::m.71232	13	20,4	81,145	40,017	PF00456.20	Transketolase_N	501,6	7,90E-151	CL0254
TRINITY_DN16668_c3_g1::TRINITY_DN16668_c3_g1_i1::g.71264::m.71264	13	16	113,9	42,815	PF02347.15	GDC-P	610	2,00E-183	CL0061
TRINITY_DN16674_c0_g1::TRINITY_DN16674_c0_g1_i2::g.71326::m.71326	5	7,7	76,688	6,9293					
TRINITY_DN16675_c0_g2::TRINITY_DN16675_c0_g2_i3::g.71545::m.71545	2	5,8	50,72	3,1102	PF04715.12	Anth_synt_I_N	65,5	5,50E-18	No_clan
TRINITY_DN16682_c4_g1::TRINITY_DN16682_c4_g1_i2::g.71560::m.71560	2	15,7	19,661	3,8545	PF13905.5	Thioredoxin_8	54	1,50E-14	CL0172
TRINITY_DN16683_c2_g2::TRINITY_DN16683_c2_g2_i1::g.71583::m.71583	1	13	12,639	2,5988	PF00627.30	UBA	39,5	3,50E-10	CL0214
TRINITY_DN16684_c1_g1::TRINITY_DN16684_c1_g1_i1::g.71521::m.71521	1	9	17,261	2,0715	PF00071.21	Ras	56,7	1,90E-15	CL0023
TRINITY_DN16687_c0_g1::TRINITY_DN16687_c0_g1_i2::g.71593::m.71593	1	2,8	58,421	2,6112					
TRINITY_DN16690_c0_g1::TRINITY_DN16690_c0_g1_i1::g.71666::m.71666	6	13,7	73,769	13,562	PF17004.4	SRP_TPR_like	56,3	2,70E-15	CL0020

TRINITY_DN16691_c0_g1::TRINITY_DN16691_c0_g1_i7::g.71695::m.71695	2	6,3	34,41	4,7763	PF02629.18	CoA_binding	112	1,60E-32	CL0063
TRINITY_DN16697_c1_g2::TRINITY_DN16697_c1_g2_i3::g.70483::m.70483	1	13,7	18,937	2,2911	PF02359.17	CDC48_N	85,1	2,60E-24	CL0332
TRINITY_DN16699_c3_g1::TRINITY_DN16699_c3_g1_i15::g.70256::m.70256	4	11,6	54,318	7,3729	PF01602.19	Adaptin_N	244,7	1,60E-72	CL0020
TRINITY_DN16700_c3_g3::TRINITY_DN16700_c3_g3_i4::g.71827::m.71827	4	27,5	17,647	4,9262	PF01201.21	Ribosomal_S8e	142,7	7,10E-42	No_clan
TRINITY_DN16700_c3_g5::TRINITY_DN16700_c3_g5_i2::g.71826::m.71826	2	18,2	18,795	4,6251	PF14226.5	DIOX_N	77,7	1,10E-21	CL0029
TRINITY_DN16705_c7_g1::TRINITY_DN16705_c7_g1_i5::g.72000::m.72000	1	2	96,031	2,9549	PF00133.21	tRNA-synt_1	621,9	9,20E-187	CL0039
TRINITY_DN16706_c0_g2::TRINITY_DN16706_c0_g2_i5::g.72057::m.72057	2	8,1	36,813	5,2553	PF00076.21	RRM_1	53,9	1,10E-14	CL0221
TRINITY_DN16711_c0_g1::TRINITY_DN16711_c0_g1_i4::g.72030::m.72030	5	16,5	72,642	23,361	PF12068.7	DUF3548	77,5	9,60E-22	No_clan
TRINITY_DN16713_c1_g2::TRINITY_DN16713_c1_g2_i6::g.72096::m.72096	3	10,4	53,827	6,5587	PF01363.20	FYVE	65,2	4,10E-18	CL0390
TRINITY_DN16713_c1_g3::TRINITY_DN16713_c1_g3_i3::g.72094::m.72094	4	32,8	20,615	6,0463	PF09423.9	PhoD	27,6	1,30E-06	CL0163
TRINITY_DN16718_c6_g1::TRINITY_DN16718_c6_g1_i4::g.72149::m.72149	5	28,1	23,695	29,534	PF00759.18	Glyco_hydro_9	143,5	1,10E-41	CL0059
TRINITY_DN16719_c0_g1::TRINITY_DN16719_c0_g1_i6::g.72195::m.72195	2	9,1	29,968	1,876	PF14389.5	Lzipper-MIP1	82,6	1,70E-23	No_clan
TRINITY_DN16719_c1_g1::TRINITY_DN16719_c1_g1_i3::g.72216::m.72216	8	17,9	59,457	25,86	PF02990.15	EMP70	475,6	1,70E-142	No_clan
TRINITY_DN16736_c3_g2::TRINITY_DN16736_c3_g2_i1::g.72521::m.72521	13	47,9	42,536	133,34	PF00056.22	Ldh_1_N	158,7	8,50E-47	CL0063
TRINITY_DN16740_c1_g1::TRINITY_DN16740_c1_g1_i2::g.72692::m.72692	3	8,3	44,688	2,9876	PF00400.31	WD40	13,9	0,07	CL0186
TRINITY_DN16741_c1_g1::TRINITY_DN16741_c1_g1_i4::g.72580::m.72580	2	3	93,98	2,4157	PF02847.16	MA3	105,9	1,00E-30	CL0020
TRINITY_DN16744_c0_g2::TRINITY_DN16744_c0_g2_i2::g.72603::m.72603	3	9,7	35,579	3,5188	PF10496.8	Syntaxin-18_N	57,7	9,60E-16	No_clan
TRINITY_DN16745_c0_g1::TRINITY_DN16745_c0_g1_i9::g.72756::m.72756	7	11,1	93,145	21,935					
TRINITY_DN16751_c0_g2::TRINITY_DN16751_c0_g2_i11::g.72773::m.72773	12	24	61,845	134,4	PF00171.21	Aldedh	121,4	3,30E-35	CL0099
TRINITY_DN16752_c9_g1::TRINITY_DN16752_c9_g1_i5::g.72819::m.72819	8	20,6	58,481	16,219	PF01749.19	IBB	87,5	5,40E-25	CL0020
TRINITY_DN16756_c2_g7::TRINITY_DN16756_c2_g7_i3::g.72811::m.72811	13	33,6	53,851	41,531	PF00224.20	PK	517,5	1,30E-155	CL0151

TRINITY_DN16763_c1_g3::TRINITY_DN16763_c1_g3_i3::g.72969::m.72969	8	23	47,116	16,972	PF01399.26	PCI	77	1,30E-21	CL0123
TRINITY_DN16766_c2_g2::TRINITY_DN16766_c2_g2_i3::g.73070::m.73070	1	9	24,081	3,304					
TRINITY_DN16768_c1_g1::TRINITY_DN16768_c1_g1_i8::g.72998::m.72998	5	8,8	84,986	7,4161	PF03030.15	H_PPase	880	1,10E-264	No_clan
TRINITY_DN16768_c1_g4::TRINITY_DN16768_c1_g4_i5::g.73029::m.73029	2	3,5	78,807	3,6011	PF00083.23	Sugar_tr	179,6	9,30E-53	CL0015
TRINITY_DN16770_c0_g2::TRINITY_DN16770_c0_g2_i2::g.73031::m.73031	2	18	20,607	4,5801	PF02798.19	GST_N	33,3	4,20E-08	CL0172
TRINITY_DN16772_c0_g1::TRINITY_DN16772_c0_g1_i3::g.72983::m.72983	2	3,5	77,18	2,7103	PF05691.11	Raffinose_syn	851,3	4,50E-256	CL0058
TRINITY_DN16773_c1_g1::TRINITY_DN16773_c1_g1_i5::g.73048::m.73048	2	8,2	36,501	6,0878	PF01412.17	ArfGap	127,5	2,30E-37	No_clan
TRINITY_DN16773_c2_g1::TRINITY_DN16773_c2_g1_i3::g.73056::m.73056	5	8,5	69,052	7,0988	PF04597.13	Ribophorin_I	478	3,20E-143	No_clan
TRINITY_DN16774_c0_g1::TRINITY_DN16774_c0_g1_i9::g.73138::m.73138	8	31,4	41,01	25,588	PF00782.19	DSPc	84,2	6,20E-24	CL0031
TRINITY_DN16782_c2_g1::TRINITY_DN16782_c2_g1_i3::g.73171::m.73171	1	9,8	15,234	17,132	PF03080.14	Neprosin	153,8	4,00E-45	No_clan
TRINITY_DN16782_c2_g2::TRINITY_DN16782_c2_g2_i4::g.73167::m.73167	2	24,6	20,81	2,7767	PF03080.14	Neprosin	207,6	1,40E-61	No_clan
TRINITY_DN16787_c1_g2::TRINITY_DN16787_c1_g2_i3::g.73271::m.73271	2	6	41,353	2,5965	PF00294.23	PfkB	268,6	6,20E-80	CL0118
TRINITY_DN16788_c0_g2::TRINITY_DN16788_c0_g2_i3::g.73187::m.73187	3	5,6	68,475	20,825	PF01301.18	Glyco_hydro_35	379,7	1,30E-113	CL0058
TRINITY_DN16789_c2_g2::TRINITY_DN16789_c2_g2_i2::g.73230::m.73230	4	12,8	42,173	9,7824	PF03031.17	NIF	121,5	2,50E-35	CL0137
TRINITY_DN16789_c2_g4::TRINITY_DN16789_c2_g4_i5::g.73232::m.73232	4	23,6	22,33	6,158	PF00438.19	S-AdoMet_synt_N	144,1	1,60E-42	No_clan
TRINITY_DN16789_c2_g5::TRINITY_DN16789_c2_g5_i1::g.73225::m.73225	2	7,4	49,721	5,3005	PF00117.27	GATase	93,4	1,40E-26	CL0014
TRINITY_DN16793_c3_g3::TRINITY_DN16793_c3_g3_i3::g.73369::m.73369	1	4,1	33,66	3,9704	PF02737.17	3HCDH_N	209,4	3,40E-62	CL0063
TRINITY_DN16802_c5_g3::TRINITY_DN16802_c5_g3_i3::g.73661::m.73661	1	5,3	29,113	2,7941	PF04146.14	YTH	57,2	1,40E-15	CL0178
TRINITY_DN16806_c1_g1::TRINITY_DN16806_c1_g1_i6::g.73621::m.73621	2	6,4	47,671	3,1818	PF00155.20	Aminotran_1_2	160,6	5,40E-47	CL0061
TRINITY_DN16808_c0_g1::TRINITY_DN16808_c0_g1_i2::g.73724::m.73724	5	24,6	25,883	99,961	PF01738.17	DLH	128,2	2,90E-37	CL0028

TRINITY_DN16814_c2_g1::TRINITY_DN16814_c2_g1_i8::g.73807::m.73807	10	54,9	22,836	77,521	PF15704.4	Mt_ATP_synt	253,1	1,50E-75	No_clan
TRINITY_DN16815_c5_g2::TRINITY_DN16815_c5_g2_i1::g.73817::m.73817	15	49,3	41,043	79,524	PF02874.22	ATP-synt_ab_N	69,5	2,40E-19	CL0275
TRINITY_DN16817_c0_g1::TRINITY_DN16817_c0_g1_i3::g.73774::m.73774	1	2,8	71,998	2,1966	PF11837.7	DUF3357	65,7	4,10E-18	No_clan
TRINITY_DN16818_c0_g1::TRINITY_DN16818_c0_g1_i9::g.73983::m.73983	7	27,5	41,608	33,423	PF00956.17	NAP	288	5,30E-86	No_clan
TRINITY_DN16820_c1_g1::TRINITY_DN16820_c1_g1_i7::g.73896::m.73896	2	17,8	15,091	41,924	PF00076.21	RRM_1	78,9	1,70E-22	CL0221
TRINITY_DN16821_c1_g1::TRINITY_DN16821_c1_g1_i1::g.73860::m.73860	3	30,5	23,149	28,986	PF07802.10	GCK	124,5	1,50E-36	No_clan
TRINITY_DN16821_c2_g1::TRINITY_DN16821_c2_g1_i2::g.73867::m.73867	7	7,9	119,65	12,198	PF12764.6	Gly-rich_Ago1	58,5	8,90E-16	No_clan
TRINITY_DN16821_c3_g1::TRINITY_DN16821_c3_g1_i2::g.73875::m.73875	6	10,8	68,628	8,9989	PF07765.11	KIP1	85,5	1,90E-24	No_clan
TRINITY_DN16826_c3_g1::TRINITY_DN16826_c3_g1_i6::g.74102::m.74102	3	5,7	94,431	5,2699					
TRINITY_DN16827_c1_g1::TRINITY_DN16827_c1_g1_i8::g.73997::m.73997	20	49,4	45,318	212,85	PF08442.9	ATP-grasp_2	197,8	1,30E-58	CL0179
TRINITY_DN16828_c0_g2::TRINITY_DN16828_c0_g2_i1::g.74105::m.74105	3	9,1	37,29	19,682					
TRINITY_DN16828_c3_g2::TRINITY_DN16828_c3_g2_i1::g.74126::m.74126	2	21,5	17,062	5,4299	PF01467.25	CTP_transf_like	57,4	1,60E-15	CL0039
TRINITY_DN16834_c1_g1::TRINITY_DN16834_c1_g1_i1::g.74148::m.74148	4	10,3	56,417	5,9561	PF00069.24	Pkinase	251,4	8,60E-75	CL0016
TRINITY_DN16836_c1_g1::TRINITY_DN16836_c1_g1_i8::g.74234::m.74234	6	5,3	134,29	8,9056	PF08623.9	TIP120	191,7	7,00E-57	CL0020
TRINITY_DN16836_c1_g3::TRINITY_DN16836_c1_g3_i3::g.74224::m.74224	14	31,1	58,026	227,94	PF01213.18	CAP_N	288,4	7,70E-86	No_clan
TRINITY_DN16837_c0_g2::TRINITY_DN16837_c0_g2_i4::g.74272::m.74272	4	13,1	59,946	23,593	PF05602.11	CLPTM1	486,6	6,50E-146	No_clan
TRINITY_DN16837_c1_g1::TRINITY_DN16837_c1_g1_i3::g.74278::m.74278	1	3,7	53,712	2,5256	PF03435.17	Sacchrp_dh_NADP	64,2	1,30E-17	CL0063
TRINITY_DN16840_c2_g1::TRINITY_DN16840_c2_g1_i1::g.74291::m.74291	14	34,3	41,603	323,31	PF00248.20	Aldo_ket_red	164,8	2,30E-48	No_clan
TRINITY_DN16840_c2_g3::TRINITY_DN16840_c2_g3_i5::g.74315::m.74315	7	22	52,481	47,856	PF03952.15	Enolase_N	188,6	4,20E-56	CL0227
TRINITY_DN16842_c1_g4::TRINITY_DN16842_c1_g4_i5::g.74459::m.74459	3	19,5	16,537	207,73	PF00111.26	Fer2	67,8	5,40E-19	CL0486
TRINITY_DN16842_c1_g6::TRINITY_DN16842_c1_g6_i1::g.74458::m.74458	3	33,2	21,494	158,53	PF00111.26	Fer2	65,5	2,80E-18	CL0486

TRINITY_DN16845_c1_g1::TRINITY_DN16845_c1_g1_i1::g.74565::m.74565	6	34,3	23,071	4,3078	PF00071.21	Ras	192,8	2,70E-57	CL0023
TRINITY_DN17999_c1_g1::TRINITY_DN17999_c1_g1_i8::g.91779::m.91779	1	5,7	20,933	2,3963	PF14541.5	TAXi_C	55,2	6,70E-15	CL0129
TRINITY_DN16852_c0_g1::TRINITY_DN16852_c0_g1_i5::g.74328::m.74328	2	22,6	14,609	40,414	PF00834.18	Ribul_P_3_epim	144,3	2,80E-42	CL0036
TRINITY_DN16859_c0_g3::TRINITY_DN16859_c0_g3_i1::g.74469::m.74469	3	24,6	13,821	83,801	PF13180.5	PDZ_2	30,9	2,30E-07	CL0466
TRINITY_DN16861_c5_g5::TRINITY_DN16861_c5_g5_i1::g.74534::m.74534	2	6,9	27,838	2,3268	PF04614.11	Pex19	135,6	2,20E-39	No_clan
TRINITY_DN16865_c3_g3::TRINITY_DN16865_c3_g3_i2::g.74745::m.74745	14	29,8	67,219	323,31	PF00887.18	ACBP	45,2	7,50E-12	CL0632
TRINITY_DN16867_c0_g1::TRINITY_DN16867_c0_g1_i8::g.74659::m.74659	2	6,5	38,296	1,9531	PF00415.17	RCC1	49,7	4,00E-13	CL0186
TRINITY_DN16872_c0_g1::TRINITY_DN16872_c0_g1_i9::g.74807::m.74807	5	18	44,901	13,716	PF01063.18	Aminotran_4	146	1,40E-42	No_clan
TRINITY_DN16875_c1_g2::TRINITY_DN16875_c1_g2_i1::g.74175::m.74175	15	33,2	70,892	91,845	PF00076.21	RRM_1	70,1	9,60E-20	CL0221
TRINITY_DN16879_c1_g4::TRINITY_DN16879_c1_g4_i3::g.74866::m.74866	8	10,9	101,07	15,573	PF02861.19	Clp_N	37,1	2,30E-09	No_clan
TRINITY_DN16896_c1_g1::TRINITY_DN16896_c1_g1_i19::g.75135::m.75135	2	19,6	14,935	3,6567	PF01641.17	SelR	160,2	1,90E-47	CL0080
TRINITY_DN16898_c0_g1::TRINITY_DN16898_c0_g1_i2::g.75056::m.75056	1	6,9	21,517	1,9975	PF08207.11	EFP_N	35,6	6,40E-09	CL0107
TRINITY_DN16901_c2_g1::TRINITY_DN16901_c2_g1_i2::g.75153::m.75153	1	1,8	98,148	2,4465	PF08263.11	LRRNT_2	22,9	7,30E-05	No_clan
TRINITY_DN16914_c0_g2::TRINITY_DN16914_c0_g2_i3::g.75483::m.75483	2	17,6	11,418	27,95	PF00254.27	FKBP_C	76,9	1,00E-21	CL0487
TRINITY_DN16924_c1_g1::TRINITY_DN16924_c1_g1_i1::g.75666::m.75666	2	8,8	31,39	4,6481	PF04893.16	Yip1	53,9	1,60E-14	CL0112
TRINITY_DN16925_c0_g1::TRINITY_DN16925_c0_g1_i1::g.75769::m.75769	2	5,2	50,6	2,7149	PF00443.28	UCH	126,2	1,50E-36	CL0125
TRINITY_DN16927_c0_g1::TRINITY_DN16927_c0_g1_i2::g.75647::m.75647	2	12,6	28,301	5,1081	PF04511.14	DER1	195,6	7,20E-58	CL0207
TRINITY_DN16927_c1_g1::TRINITY_DN16927_c1_g1_i7::g.75660::m.75660	2	8	36,23	4,1479	PF03328.13	HpcH_HpaI	177,8	1,50E-52	CL0151
TRINITY_DN16928_c0_g2::TRINITY_DN16928_c0_g2_i1::g.75662::m.75662	1	8,1	23,402	2,9585	PF03171.19	2OG-FeII_Oxy	65,7	4,00E-18	CL0029
TRINITY_DN16932_c1_g1::TRINITY_DN16932_c1_g1_i8::g.75833::m.75833	1	9,9	20,739	5,6925					
TRINITY_DN16932_c1_g2::TRINITY_DN16932_c1_g2_i8::g.75832::m.75832	4	27,6	15,409	6,6426					
TRINITY_DN16933_c4_g2::TRINITY_DN16933_c4_g2_i2::g.75851::m.75851	1	6,9	16,762	1,8883	PF01259.17	SAICAR_synt	89,5	2,40E-25	No_clan

TRINITY_DN16933_c5_g1::TRINITY_DN16933_c5_g1_i5::g.75858::m.75858	10	33,7	47,427	43,075	PF00155.20	Aminotran_1_2	298,6	6,00E-89	CL0061
TRINITY_DN16939_c0_g1::TRINITY_DN16939_c0_g1_i3::g.75902::m.75902	3	15,8	21,997	4,7111	PF00462.23	Glutaredoxin	57,8	8,70E-16	CL0172
TRINITY_DN16939_c1_g2::TRINITY_DN16939_c1_g2_i8::g.75928::m.75928	6	37,6	20,994	187,04	PF05008.14	V-SNARE	88,7	2,20E-25	CL0147
TRINITY_DN16940_c1_g1::TRINITY_DN16940_c1_g1_i2::g.75863::m.75863	3	35,1	12,336	5,251	PF01738.17	DLH	49,4	3,80E-13	CL0028
TRINITY_DN16940_c1_g2::TRINITY_DN16940_c1_g2_i2::g.75865::m.75865	6	34,3	25,64	47,67	PF01738.17	DLH	98,6	3,40E-28	CL0028
TRINITY_DN8216_c0_g1::TRINITY_DN8216_c0_g1_i1::g.2536::m.2536	1	6,2	25,344	2,0196	PF00078.26	RVT_1	70,5	1,30E-19	CL0027
TRINITY_DN16954_c2_g1::TRINITY_DN16954_c2_g1_i2::g.76223::m.76223	1	2,3	39,274	3,0707	PF00462.23	Glutaredoxin	48,6	6,60E-13	CL0172
TRINITY_DN16958_c1_g1::TRINITY_DN16958_c1_g1_i8::g.76184::m.76184	1	10,9	17,082	14,294	PF00505.18	HMG_box	81	5,90E-23	CL0114
TRINITY_DN16963_c2_g3::TRINITY_DN16963_c2_g3_i1::g.76239::m.76239	8	32,7	34,406	13,376	PF00004.28	AAA	144,5	2,30E-42	CL0023
TRINITY_DN16964_c2_g5::TRINITY_DN16964_c2_g5_i4::g.76427::m.76427	3	34,3	11,968	11,721	PF03297.14	Ribosomal_S25	136,8	2,40E-40	CL0123
TRINITY_DN16965_c3_g1::TRINITY_DN16965_c3_g1_i6::g.76283::m.76283	6	13,1	70,757	11,649	PF03321.12	GH3	666,3	3,30E-200	CL0378
TRINITY_DN16967_c3_g1::TRINITY_DN16967_c3_g1_i3::g.76257::m.76257	11	43,3	33,325	323,31	PF00121.17	TIM	300,5	7,20E-90	CL0036
TRINITY_DN16971_c2_g1::TRINITY_DN16971_c2_g1_i8::g.76469::m.76469	1	8,7	15,398	2,1858	PF08538.9	DUF1749	70,8	9,30E-20	CL0028
TRINITY_DN16973_c0_g1::TRINITY_DN16973_c0_g1_i3::g.76496::m.76496	2	4,9	61,817	5,0263	PF01501.19	Glyco_transf_8	265	6,40E-79	CL0110
TRINITY_DN16978_c1_g3::TRINITY_DN16978_c1_g3_i2::g.76542::m.76542	2	5,4	52,634	2,1546	PF13181.5	TPR_8	24,1	2,40E-05	CL0020
TRINITY_DN16980_c0_g3::TRINITY_DN16980_c0_g3_i2::g.76506::m.76506	2	3,2	82,366	2,3004	PF17177.3	PPR_long	36,2	3,60E-09	CL0020
TRINITY_DN16987_c2_g1::TRINITY_DN16987_c2_g1_i9::g.76589::m.76589	2	7	39,408	3,5357	PF00561.19	Abhydrolase_1	77,5	1,10E-21	CL0028
TRINITY_DN16988_c0_g1::TRINITY_DN16988_c0_g1_i6::g.76602::m.76602	17	52,1	38,042	130,2	PF00191.19	Annexin	75,4	2,60E-21	No_clan
TRINITY_DN16993_c0_g1::TRINITY_DN16993_c0_g1_i5::g.76723::m.76723	2	24,5	11,637	4,1302	PF01370.20	Epimerase	55,2	6,10E-15	CL0063
TRINITY_DN16993_c0_g2::TRINITY_DN16993_c0_g2_i2::g.76741::m.76741	10	18,5	83,01	259,84	PF00082.21	Peptidase_S8	165,6	1,40E-48	No_clan
TRINITY_DN16993_c0_g3::TRINITY_DN16993_c0_g3_i3::g.76730::m.76730	1	2,6	49,9	2,2509	PF01501.19	Glyco_transf_8	219,1	6,80E-65	CL0110

TRINITY_DN16995_c1_g3::TRINITY_DN16995_c1_g3_i3::g.76630::m.76630	5	33,9	19,091	41,9	PF00838.16	TCTP	189,7	4,10E-56	CL0080
TRINITY_DN16996_c2_g1::TRINITY_DN16996_c2_g1_i5::g.76760::m.76760	7	13,2	79,429	10,748	PF02897.14	Peptidase_S9_N	457,6	3,30E-137	CL0186
TRINITY_DN17004_c0_g1::TRINITY_DN17004_c0_g1_i2::g.76878::m.76878	1	8,1	24,291	2,1441					
TRINITY_DN17004_c0_g6::TRINITY_DN17004_c0_g6_i1::g.76895::m.76895	6	7,7	110,79	6,9666	PF16004.4	EFTUD2	121,9	2,10E-35	No_clan
TRINITY_DN17006_c0_g4::TRINITY_DN17006_c0_g4_i2::g.76859::m.76859	3	24,6	15,171	6,4307	PF01248.25	Ribosomal_L7Ae	94,1	3,00E-27	CL0101
TRINITY_DN17008_c0_g1::TRINITY_DN17008_c0_g1_i2::g.77040::m.77040	3	15,4	22,534	3,8712	PF00174.18	Oxidored_molyb	60,6	1,30E-16	CL0072
TRINITY_DN17008_c0_g1::TRINITY_DN17008_c0_g1_i7::g.77048::m.77048	3	19,6	20,551	7,6702	PF00174.18	Oxidored_molyb	105,5	2,10E-30	CL0072
TRINITY_DN17009_c5_g2::TRINITY_DN17009_c5_g2_i5::g.77303::m.77303	1	5,3	32,7	-2	PF13520.5	AA_permease_2	45,9	3,30E-12	CL0062
TRINITY_DN17010_c0_g1::TRINITY_DN17010_c0_g1_i4::g.76944::m.76944	2	1,9	139,74	2,938	PF04563.14	RNA_pol_Rpb2_1	251,2	5,50E-75	No_clan
TRINITY_DN17014_c1_g3::TRINITY_DN17014_c1_g3_i2::g.77015::m.77015	6	24,3	38,382	17,782	PF01398.20	JAB	51,8	6,60E-14	CL0366
TRINITY_DN17016_c4_g1::TRINITY_DN17016_c4_g1_i2::g.77096::m.77096	1	7,6	14,27	2,0968	PF00083.23	Sugar_tr	75,5	3,40E-21	CL0015
TRINITY_DN17017_c2_g1::TRINITY_DN17017_c2_g1_i7::g.77030::m.77030	5	24,1	26,994	70,97	PF00857.19	Isochorismatase	103,2	1,60E-29	No_clan
TRINITY_DN17019_c1_g3::TRINITY_DN17019_c1_g3_i1::g.77181::m.77181	6	28,2	24,603	19,088	PF00638.17	Ran_BP1	138,2	1,40E-40	CL0266
TRINITY_DN17020_c0_g1::TRINITY_DN17020_c0_g1_i5::g.77212::m.77212	5	20,2	34,683	14,373					
TRINITY_DN17024_c0_g5::TRINITY_DN17024_c0_g5_i1::g.77080::m.77080	4	15,4	28,938	8,2108					
TRINITY_DN17027_c2_g2::TRINITY_DN17027_c2_g2_i1::g.77239::m.77239	5	48,9	15,657	10,528	PF02785.18	Biotin_carb_C	134,6	1,20E-39	CL0105
TRINITY_DN17028_c2_g2::TRINITY_DN17028_c2_g2_i3::g.77278::m.77278	2	2,4	123,33	4,5861					
TRINITY_DN17028_c2_g2::TRINITY_DN17028_c2_g2_i3::g.77279::m.77279	2	9,6	25,32	4,1202					
TRINITY_DN17031_c2_g2::TRINITY_DN17031_c2_g2_i1::g.77290::m.77290	2	15,3	25,468	5,2875	PF13774.5	Longin	43,6	2,10E-11	No_clan
TRINITY_DN17036_c2_g3::TRINITY_DN17036_c2_g3_i3::g.77409::m.77409	1	17,1	13,612	2,3783	PF01121.19	CoaE	80,3	1,20E-22	CL0023
TRINITY_DN17040_c1_g7::TRINITY_DN17040_c1_g7_i1::g.77416::m.77416	3	33,3	14,262	78,054	PF01849.17	NAC	69,8	1,30E-19	No_clan

TRINITY_DN17041_c0_g1::TRINITY_DN17041_c0_g1_i4::g.77480::m.77480	8	8,5	129	15,783	PF02837.17	Glyco_hydro_2_N	158	1,80E-46	CL0202
TRINITY_DN17042_c1_g2::TRINITY_DN17042_c1_g2_i2::g.77496::m.77496	18	19,4	150,63	63,654	PF16529.4	Ge1_WD40	76,3	1,90E-21	CL0186
TRINITY_DN17051_c1_g1::TRINITY_DN17051_c1_g1_i6::g.77580::m.77580	2	4,1	73,902	3,6628	PF11443.7	DUF2828	733,5	1,40E-220	No_clan
TRINITY_DN17055_c3_g2::TRINITY_DN17055_c3_g2_i4::g.77693::m.77693	8	6,6	176,3	15,769					
TRINITY_DN17060_c1_g1::TRINITY_DN17060_c1_g1_i6::g.77747::m.77747	4	17	37,509	10,994	PF13847.5	Methyltransf_31	65	5,90E-18	CL0063
TRINITY_DN17060_c1_g1::TRINITY_DN17060_c1_g1_i4::g.77740::m.77740	16	24,4	93,33	83,224	PF03141.15	Methyltransf_29	762,1	2,10E-229	CL0063
TRINITY_DN17061_c4_g1::TRINITY_DN17061_c4_g1_i15::g.77796::m.77796	2	8,3	21,876	4,0318	PF09229.10	Aha1_N	92,3	2,70E-26	CL0648
TRINITY_DN17067_c1_g1::TRINITY_DN17067_c1_g1_i1::g.77883::m.77883	23	25	136,95	46,031	PF00400.31	WD40	23,6	6,10E-05	CL0186
TRINITY_DN17067_c1_g2::TRINITY_DN17067_c1_g2_i1::g.77892::m.77892	19	37,9	80,098	260,06	PF00082.21	Peptidase_S8	169,3	1,00E-49	No_clan
TRINITY_DN17067_c2_g2::TRINITY_DN17067_c2_g2_i1::g.77907::m.77907	5	13,2	48,042	5,4049	PF00364.21	Biotin_lipoyl	58,4	4,20E-16	CL0105
TRINITY_DN17070_c2_g4::TRINITY_DN17070_c2_g4_i5::g.77858::m.77858	11	58,6	25,967	107,09	PF10584.8	Proteasome_A_N	50,2	1,30E-13	CL0052
TRINITY_DN17074_c4_g2::TRINITY_DN17074_c4_g2_i4::g.77976::m.77976	10	31,6	53,272	29,469	PF00206.19	Lyase_1	386,9	6,90E-116	No_clan
TRINITY_DN17082_c3_g1::TRINITY_DN17082_c3_g1_i1::g.78154::m.78154	6	15	58,479	13,278	PF01053.19	Cys_Met_Meta_PP	473,9	2,40E-142	CL0061
TRINITY_DN17082_c4_g2::TRINITY_DN17082_c4_g2_i2::g.78169::m.78169	5	11,6	71,122	11,633	PF08172.11	CASP_C	136,8	7,20E-40	No_clan
TRINITY_DN17086_c3_g1::TRINITY_DN17086_c3_g1_i14::g.77558::m.77558	5	17,1	44,51	10,307	PF07714.16	Pkinase_Tyr	161,1	2,80E-47	CL0016
TRINITY_DN17089_c1_g2::TRINITY_DN17089_c1_g2_i5::g.78211::m.78211	4	11,3	63,495	7,3785	PF00515.27	TPR_1	29,9	2,90E-07	CL0020
TRINITY_DN17091_c0_g2::TRINITY_DN17091_c0_g2_i7::g.78224::m.78224	6	13	78,942	32,776	PF00226.30	DnaJ	33,6	3,00E-08	CL0392
TRINITY_DN17093_c0_g1::TRINITY_DN17093_c0_g1_i9::g.78387::m.78387	1	8,1	26,11	2,534					
TRINITY_DN17096_c1_g1::TRINITY_DN17096_c1_g1_i4::g.78249::m.78249	2	21,6	12,265	4,228					
TRINITY_DN17096_c2_g1::TRINITY_DN17096_c2_g1_i4::g.78253::m.78253	2	5,4	47,922	3,025	PF01399.26	PCI	67,2	1,50E-18	CL0123

TRINITY_DN17097_c0_g1::TRINITY_DN17097_c0_g1_i1::g.78356::m.78356	2	8,7	41,583	2,2674					
TRINITY_DN17099_c3_g2::TRINITY_DN17099_c3_g2_i2::g.76778::m.76778	7	16,6	60,538	12,302	PF16294.4	RSB_motif	53,3	2,70E-14	No_clan
TRINITY_DN17100_c3_g1::TRINITY_DN17100_c3_g1_i1::g.78525::m.78525	2	7,7	20,694	2,8523	PF00237.18	Ribosomal_L22	137,2	2,00E-40	No_clan
TRINITY_DN17109_c1_g4::TRINITY_DN17109_c1_g4_i1::g.78802::m.78802	6	38,8	17,593	16,185	PF00416.21	Ribosomal_S13	192,4	3,00E-57	CL0303
TRINITY_DN17113_c0_g1::TRINITY_DN17113_c0_g1_i1::g.78814::m.78814	2	2,1	119,54	2,7325	PF03810.18	IBN_N	24,6	1,60E-05	CL0020
TRINITY_DN17125_c1_g1::TRINITY_DN17125_c1_g1_i9::g.78918::m.78918	4	11,4	48,456	6,2312	PF01417.19	ENTH	30,8	2,30E-07	CL0009
TRINITY_DN17130_c2_g2::TRINITY_DN17130_c2_g2_i6::g.79154::m.79154	9	19,2	72,084	25,559					
TRINITY_DN17135_c0_g1::TRINITY_DN17135_c0_g1_i6::g.79192::m.79192	2	10,2	36,059	4,4183	PF07910.12	Peptidase_C78	174,4	1,90E-51	CL0125
TRINITY_DN17136_c2_g3::TRINITY_DN17136_c2_g3_i6::g.79230::m.79230	4	33,1	16,8	7,8313	PF00071.21	Ras	95,1	3,00E-27	CL0023
TRINITY_DN17136_c2_g4::TRINITY_DN17136_c2_g4_i1::g.79232::m.79232	2	12,1	36,45	13,472					
TRINITY_DN17142_c0_g1::TRINITY_DN17142_c0_g1_i3::g.79276::m.79276	9	29,9	37,249	44,235	PF01026.20	TatD_DNase	168,3	1,90E-49	CL0034
TRINITY_DN17142_c1_g1::TRINITY_DN17142_c1_g1_i7::g.79281::m.79281	1	8,2	19,074	2,3354	PF05212.11	DUF707	109,4	1,90E-31	No_clan
TRINITY_DN17145_c0_g1::TRINITY_DN17145_c0_g1_i4::g.79323::m.79323	14	18,6	91,699	6,5289	PF00637.19	Clathrin	82,1	3,20E-23	CL0020
TRINITY_DN17145_c0_g3::TRINITY_DN17145_c0_g3_i2::g.79319::m.79319	16	20,8	104,19	125,86	PF00637.19	Clathrin	40,7	1,90E-10	CL0020
TRINITY_DN17145_c0_g4::TRINITY_DN17145_c0_g4_i1::g.79322::m.79322	12	19,5	84,112	65,177	PF01394.19	Clathrin_propel	26,2	6,20E-06	CL0020
TRINITY_DN17147_c0_g1::TRINITY_DN17147_c0_g1_i4::g.79344::m.79344	6	43	18,575	143,27	PF01073.18	3Beta_HSD	43,3	2,00E-11	CL0063
TRINITY_DN17150_c2_g1::TRINITY_DN17150_c2_g1_i1::g.79329::m.79329	7	36,8	27,379	68,548	PF10584.8	Proteasome_A_N	50,5	1,10E-13	CL0052
TRINITY_DN17150_c2_g1::TRINITY_DN17150_c2_g1_i7::g.79332::m.79332	6	32,4	27,465	2,8155	PF10584.8	Proteasome_A_N	50,5	1,10E-13	CL0052
TRINITY_DN17157_c0_g1::TRINITY_DN17157_c0_g1_i2::g.79386::m.79386	2	12,9	18,734	2,9809	PF06364.11	DUF1068	226,5	1,60E-67	No_clan
TRINITY_DN17158_c8_g2::TRINITY_DN17158_c8_g2_i1::g.79404::m.79404	4	16,1	28,399	14,479	PF01092.18	Ribosomal_S6e	197,2	6,80E-59	No_clan
TRINITY_DN17159_c3_g1::TRINITY_DN17159_c3_g1_i2::g.79474::m.79474	1	16	12,32	2,1789	PF04442.13	CtaG_Cox11	161,6	1,20E-47	No_clan
TRINITY_DN17160_c1_g3::TRINITY_DN17160_c1_g3_i2::g.79397::m.79397	2	5,2	66,693	9,6932	PF07738.12	Sad1_UNC	111,2	3,20E-32	CL0202

TRINITY_DN17163_c2_g2::TRINITY_DN17163_c2_g2_i2::g.79515::m.79515	1	13,3	14,128	2,0264	PF00348.16	polyprenyl_synt	59,6	2,20E-16	CL0613
TRINITY_DN17167_c2_g1::TRINITY_DN17167_c2_g1_i1::g.79577::m.79577	4	45,8	14,024	16,879	PF00295.16	Glyco_hydro_28	115,4	2,50E-33	CL0268
TRINITY_DN17167_c4_g1::TRINITY_DN17167_c4_g1_i2::g.79586::m.79586	2	17,2	18,262	4,1142	PF13561.5	adh_short_C2	118,1	4,10E-34	CL0063
TRINITY_DN17169_c0_g2::TRINITY_DN17169_c0_g2_i1::g.79657::m.79657	2	19,9	14,769	6,8585	PF05093.12	CIAPIN1	59,8	2,80E-16	No_clan
TRINITY_DN17174_c0_g2::TRINITY_DN17174_c0_g2_i1::g.79619::m.79619	2	22,2	12,391	3,5601	PF01781.17	Ribosomal_L38e	117,4	1,90E-34	No_clan
TRINITY_DN17177_c3_g1::TRINITY_DN17177_c3_g1_i5::g.79706::m.79706	11	53,5	24,467	66,789	PF00736.18	EF1_GNE	112,5	7,30E-33	No_clan
TRINITY_DN17183_c0_g2::TRINITY_DN17183_c0_g2_i5::g.79774::m.79774	5	29,5	22,846	10,948	PF02545.13	Maf	93,2	1,40E-26	CL0269
TRINITY_DN17189_c3_g1::TRINITY_DN17189_c3_g1_i6::g.79844::m.79844	3	9,9	34,496	4,1065	PF00244.19	14.03.2003	243,2	1,90E-72	No_clan
TRINITY_DN17192_c0_g2::TRINITY_DN17192_c0_g2_i8::g.79905::m.79905	2	11,3	25,296	10,004	PF00076.21	RRM_1	53,1	1,90E-14	CL0221
TRINITY_DN17195_c1_g1::TRINITY_DN17195_c1_g1_i2::g.79932::m.79932	6	10,5	87,284	12,536	PF02493.19	MORN	29,1	5,20E-07	CL0251
TRINITY_DN17198_c0_g1::TRINITY_DN17198_c0_g1_i4::g.79878::m.79878	2	5	46,885	4,084	PF14543.5	TAXi_N	156,5	7,40E-46	CL0129
TRINITY_DN17200_c0_g1::TRINITY_DN17200_c0_g1_i7::g.79915::m.79915	1	10,8	17,48	2,1037					
TRINITY_DN17201_c0_g1::TRINITY_DN17201_c0_g1_i1::g.79917::m.79917	7	15,2	64,777	13,703	PF02776.17	TPP_enzyme_N	122	1,70E-35	CL0254
TRINITY_DN17202_c2_g1::TRINITY_DN17202_c2_g1_i4::g.80033::m.80033	10	17,5	66,232	18,915	PF10151.8	TMEM214	86,9	1,00E-24	No_clan
TRINITY_DN17204_c0_g1::TRINITY_DN17204_c0_g1_i8::g.80281::m.80281	10	34,4	38,899	35,217	PF00675.19	Peptidase_M16	144,5	2,10E-42	CL0094
TRINITY_DN17207_c1_g1::TRINITY_DN17207_c1_g1_i5::g.80226::m.80226	6	12,6	71,209	10,771	PF14845.5	Glycohydro_20b2	67,6	1,60E-18	CL0546
TRINITY_DN17213_c1_g1::TRINITY_DN17213_c1_g1_i3::g.80196::m.80196	2	12,7	25,236	2,5808	PF04968.11	CHORD	86,5	1,30E-24	No_clan
TRINITY_DN17213_c1_g3::TRINITY_DN17213_c1_g3_i3::g.80204::m.80204	2	5,9	63,185	5,9024	PF03901.16	Glyco_transf_22	345,1	6,40E-103	CL0111
TRINITY_DN17214_c1_g1::TRINITY_DN17214_c1_g1_i9::g.80183::m.80183	5	17,5	37,49	12,286	PF00579.24	tRNA-synt_1b	21,3	0,00013	CL0039
TRINITY_DN17217_c1_g1::TRINITY_DN17217_c1_g1_i9::g.80247::m.80247	1	9,5	18,688	2,6044					
TRINITY_DN17219_c0_g1::TRINITY_DN17219_c0_g1_i4::g.80391::m.80391	2	28,7	15,66	6,8877	PF02466.18	Tim17	42,6	5,60E-11	No_clan

TRINITY_DN17221_c0_g2::TRINITY_DN17221_c0_g2_i11::g.80299::m.80299	9	19,5	67,288	59,408	PF00009.26	GTP_EFTU	145,5	1,30E-42	CL0023
TRINITY_DN17227_c2_g4::TRINITY_DN17227_c2_g4_i1::g.80549::m.80549	19	39	59,616	142,23	PF01565.22	FAD_binding_4	85,4	2,70E-24	CL0077
TRINITY_DN17228_c0_g1::TRINITY_DN17228_c0_g1_i3::g.80433::m.80433	2	12,2	18,526	2,1947	PF01246.19	Ribosomal_L24e	99,6	7,60E-29	CL0175
TRINITY_DN17228_c0_g2::TRINITY_DN17228_c0_g2_i3::g.80435::m.80435	3	26,9	13,837	4,5574	PF01246.19	Ribosomal_L24e	99,6	7,70E-29	CL0175
TRINITY_DN17229_c1_g1::TRINITY_DN17229_c1_g1_i16::g.80496::m.80496	2	9,8	25,323	2,2086	PF02798.19	GST_N	70,5	1,00E-19	CL0172
TRINITY_DN17234_c0_g1::TRINITY_DN17234_c0_g1_i11::g.80741::m.80741	2	19,4	17,315	5,955					
TRINITY_DN17237_c2_g3::TRINITY_DN17237_c2_g3_i7::g.80360::m.80360	13	17,2	106,21	12,563	PF01602.19	Adaptin_N	305,8	4,70E-91	CL0020
TRINITY_DN17241_c0_g1::TRINITY_DN17241_c0_g1_i1::g.80827::m.80827	2	3,3	87,666	2,9425	PF00082.21	Peptidase_S8	181	2,90E-53	No_clan
TRINITY_DN17242_c0_g2::TRINITY_DN17242_c0_g2_i1::g.80718::m.80718	5	14,8	45,752	24,236	PF00201.17	UDPGT	34,9	7,00E-09	CL0113
TRINITY_DN17244_c0_g1::TRINITY_DN17244_c0_g1_i3::g.79946::m.79946	9	25,5	49,271	76,661	PF00332.17	Glyco_hydro_17	225,9	7,10E-67	CL0058
TRINITY_DN17471_c1_g1::TRINITY_DN17471_c1_g1_i8::g.84225::m.84225	1	2,9	69,684	2,6761	PF16209.4	PhoLip_ATPase_N	76,8	7,20E-22	No_clan
TRINITY_DN17250_c2_g1::TRINITY_DN17250_c2_g1_i27::g.80938::m.80938	3	26,6	19,463	16,216	PF01217.19	Clat_adaptor_s	82,9	1,90E-23	CL0212
TRINITY_DN17254_c0_g1::TRINITY_DN17254_c0_g1_i5::g.81103::m.81103	8	33,6	34,339	31,442	PF00013.28	KH_1	62,4	2,50E-17	CL0007
TRINITY_DN17259_c0_g1::TRINITY_DN17259_c0_g1_i9::g.80974::m.80974	1	5,2	25,939	2,2078	PF05739.18	SNARE	44,2	1,30E-11	No_clan
TRINITY_DN17268_c0_g1::TRINITY_DN17268_c0_g1_i4::g.80463::m.80463	2	6	48,167	3,3463	PF00566.17	RabGAP-TBC	181,8	1,30E-53	No_clan
TRINITY_DN17271_c3_g3::TRINITY_DN17271_c3_g3_i8::g.81059::m.81059	3	24,9	21,047	10,828	PF03357.20	Snf7	151,5	1,50E-44	CL0235
TRINITY_DN17275_c2_g1::TRINITY_DN17275_c2_g1_i6::g.81136::m.81136	6	22,3	34,626	79,51	PF17144.3	Ribosomal_L5e	277	4,50E-83	CL0267
TRINITY_DN17277_c1_g3::TRINITY_DN17277_c1_g3_i4::g.81251::m.81251	19	54,6	39,53	323,31	PF00085.19	Thioredoxin	106	7,80E-31	CL0172
TRINITY_DN17278_c1_g1::TRINITY_DN17278_c1_g1_i1::g.81211::m.81211	2	18,9	14,409	3,8448	PF06592.12	DUF1138	146,9	1,30E-43	No_clan
TRINITY_DN17279_c2_g2::TRINITY_DN17279_c2_g2_i30::g.80027::m.80027	3	6,2	99,608	13,575	PF15277.5	Sec3-PIP2_bind	61,5	6,00E-17	CL0266
TRINITY_DN17281_c2_g3::TRINITY_DN17281_c2_g3_i2::g.81288::m.81288	4	26,3	17,335	7,9825	PF01253.21	SUI1	45,9	5,90E-12	No_clan
TRINITY_DN17286_c0_g1::TRINITY_DN17286_c0_g1_i7::g.81470::m.81470	3	3,9	115,56	3,2128	PF01074.21	Glyco_hydro_38	321,8	3,60E-96	CL0158

TRINITY_DN17286_c1_g1::TRINITY_DN17286_c1_g1_i1::g.81477::m.81477	3	3,8	113,49	6,2211	PF01074.21	Glyco_hydro_38	315,2	3,80E-94	CL0158
TRINITY_DN17290_c1_g1::TRINITY_DN17290_c1_g1_i4::g.81361::m.81361	5	48,3	20,675	251,93	PF00080.19	Sod_Cu	159,8	4,20E-47	No_clan
TRINITY_DN17302_c1_g3::TRINITY_DN17302_c1_g3_i1::g.81624::m.81624	2	2,7	106,84	2,5005	PF00403.25	HMA	46,4	3,70E-12	No_clan
TRINITY_DN17303_c1_g1::TRINITY_DN17303_c1_g1_i7::g.81652::m.81652	2	9,2	42,877	2,4992	PF00892.19	EamA	46,1	4,80E-12	CL0184
TRINITY_DN17307_c3_g1::TRINITY_DN17307_c3_g1_i2::g.81691::m.81691	2	5,8	41,601	3,0217	PF01979.19	Amidohydro_1	88,7	4,10E-25	CL0034
TRINITY_DN17310_c0_g1::TRINITY_DN17310_c0_g1_i2::g.81834::m.81834	2	9,8	35,186	5,5257	PF00076.21	RRM_1	63,4	1,20E-17	CL0221
TRINITY_DN17310_c0_g2::TRINITY_DN17310_c0_g2_i2::g.81838::m.81838	5	16,9	34,903	16,02	PF00638.17	Ran_BP1	65,6	4,50E-18	CL0266
TRINITY_DN17312_c0_g3::TRINITY_DN17312_c0_g3_i1::g.81763::m.81763	14	27,5	62,965	54,428	PF00389.29	2-Hacid_dh	119	1,00E-34	CL0325
TRINITY_DN17313_c1_g1::TRINITY_DN17313_c1_g1_i12::g.81814::m.81814	5	19,7	32,977	66,001	PF00102.26	Y_phosphatase	218,8	7,00E-65	CL0031
TRINITY_DN17314_c1_g1::TRINITY_DN17314_c1_g1_i1::g.81914::m.81914	1	11,3	15,132	2,0138	PF00781.23	DAGK_cat	74,2	6,30E-21	CL0240
TRINITY_DN17314_c1_g2::TRINITY_DN17314_c1_g2_i7::g.81924::m.81924	3	19,5	23,887	5,5341	PF00609.18	DAGK_acc	83	2,70E-23	No_clan
TRINITY_DN17321_c2_g1::TRINITY_DN17321_c2_g1_i8::g.82045::m.82045	2	15,6	22,724	3,3477					
TRINITY_DN17321_c2_g2::TRINITY_DN17321_c2_g2_i3::g.82053::m.82053	3	11,3	33,609	4,7196	PF00210.23	Ferritin	113,5	6,80E-33	CL0044
TRINITY_DN17322_c1_g1::TRINITY_DN17322_c1_g1_i1::g.82026::m.82026	2	5,3	57,941	5,8956	PF12739.6	TRAPPC-Trs85	238,1	1,50E-70	No_clan
TRINITY_DN17327_c0_g4::TRINITY_DN17327_c0_g4_i4::g.82004::m.82004	2	15,2	17,992	4,0109					
TRINITY_DN17332_c3_g1::TRINITY_DN17332_c3_g1_i4::g.82072::m.82072	2	10,7	38,074	5,0997	PF05153.14	MIOX	409,7	4,20E-123	CL0237
TRINITY_DN17333_c5_g3::TRINITY_DN17333_c5_g3_i2::g.82453::m.82453	3	17,5	30,866	7,4055	PF00956.17	NAP	27,2	1,80E-06	No_clan
TRINITY_DN17336_c2_g1::TRINITY_DN17336_c2_g1_i3::g.82080::m.82080	3	5,9	67,464	4,6713	PF08323.10	Glyco_transf_5	181,9	1,60E-53	CL0113
TRINITY_DN17336_c6_g1::TRINITY_DN17336_c6_g1_i1::g.82089::m.82089	3	9,4	54,676	5,4287	PF01039.21	Carboxyl_trans	494,9	2,20E-148	CL0127
TRINITY_DN17340_c1_g1::TRINITY_DN17340_c1_g1_i17::g.82513::m.82513	1	14,9	17,571	2,235					
TRINITY_DN17343_c0_g2::TRINITY_DN17343_c0_g2_i1::g.82237::m.82237	4	6,8	97,362	8,5934	PF00962.21	A_deaminase	424,6	2,70E-127	CL0034

TRINITY_DN17345_c4_g3::TRINITY_DN17345_c4_g3_i2::g.81576::m.81576	2	24,6	12,801	4,4026					
TRINITY_DN17351_c1_g1::TRINITY_DN17351_c1_g1_i15::g.82398::m.82398	3	19,3	21,714	1,8645	PF13344.5	Hydrolase_6	121,4	1,40E-35	CL0137
TRINITY_DN17353_c2_g2::TRINITY_DN17353_c2_g2_i2::g.82341::m.82341	2	13,6	28,481	2,0458					
TRINITY_DN17355_c4_g1::TRINITY_DN17355_c4_g1_i4::g.82584::m.82584	23	34,6	84,78	323,31	PF08267.11	Meth_synt_1	395,9	1,40E-118	CL0160
TRINITY_DN17355_c4_g1::TRINITY_DN17355_c4_g1_i11::g.82598::m.82598	28	53,8	71,977	323,31	PF08267.11	Meth_synt_1	391,5	3,10E-117	CL0160
TRINITY_DN17356_c4_g2::TRINITY_DN17356_c4_g2_i4::g.82383::m.82383	1	2,4	52,406	2,0028	PF03062.18	MBOAT	211,2	2,30E-62	CL0517
TRINITY_DN17360_c0_g1::TRINITY_DN17360_c0_g1_i6::g.82556::m.82556	2	8,4	39,02	4,071					
TRINITY_DN17369_c1_g1::TRINITY_DN17369_c1_g1_i7::g.82610::m.82610	7	33,5	25,349	299,69	PF00227.25	Proteasome	163,2	4,50E-48	CL0052
TRINITY_DN17373_c0_g1::TRINITY_DN17373_c0_g1_i1::g.82647::m.82647	6	15,9	54,294	22,873	PF00350.22	Dynamin_N	74,7	8,10E-21	CL0023
TRINITY_DN17374_c2_g1::TRINITY_DN17374_c2_g1_i5::g.82712::m.82712	2	5,7	48,694	2,3974	PF00083.23	Sugar_tr	351,2	7,80E-105	CL0015
TRINITY_DN17375_c4_g1::TRINITY_DN17375_c4_g1_i2::g.82845::m.82845	4	9,6	69,23	6,2822	PF03453.16	MoeA_N	134,3	2,70E-39	No_clan
TRINITY_DN17380_c2_g1::TRINITY_DN17380_c2_g1_i4::g.82866::m.82866	3	4,4	96,987	4,7508	PF03810.18	IBN_N	42,8	3,40E-11	CL0020
TRINITY_DN17383_c0_g1::TRINITY_DN17383_c0_g1_i3::g.82754::m.82754	4	18,4	36,43	9,8646	PF00557.23	Peptidase_M24	149,6	8,60E-44	No_clan
TRINITY_DN17384_c3_g1::TRINITY_DN17384_c3_g1_i3::g.82818::m.82818	10	37,1	41,958	20,226	PF00291.24	PALP	223,2	4,40E-66	No_clan
TRINITY_DN17386_c2_g1::TRINITY_DN17386_c2_g1_i2::g.82885::m.82885	2	3,1	97,775	6,5689	PF00999.20	Na_H_Exchanger	154,7	2,60E-45	CL0064
TRINITY_DN17387_c1_g1::TRINITY_DN17387_c1_g1_i3::g.82928::m.82928	11	10,4	154,08	30,638	PF15044.5	CLU_N	72,2	3,20E-20	No_clan
TRINITY_DN17388_c0_g2::TRINITY_DN17388_c0_g2_i7::g.82945::m.82945	2	11	29,938	5,3748	PF00834.18	Ribul_P_3_epim	294,7	2,20E-88	CL0036
TRINITY_DN17394_c0_g1::TRINITY_DN17394_c0_g1_i5::g.83048::m.83048	1	3,9	33,92	2,777					
TRINITY_DN17396_c1_g1::TRINITY_DN17396_c1_g1_i2::g.82990::m.82990	13	12,6	184,24	30,425	PF06427.10	UDP-g_GGTase	1109,4	0	No_clan
TRINITY_DN17401_c1_g1::TRINITY_DN17401_c1_g1_i4::g.83099::m.83099	2	9,4	32,104	3,5004	PF00557.23	Peptidase_M24	117,2	7,20E-34	No_clan
TRINITY_DN17401_c2_g3::TRINITY_DN17401_c2_g3_i2::g.83107::m.83107	1	3,2	51,384	2,149	PF01490.17	Aa_trans	208,5	1,30E-61	CL0062

TRINITY_DN17405_c1_g3::TRINITY_DN17405_c1_g3_i1::g.83287::m.83287	9	34,3	35,924	38,243	PF00970.23	FAD_binding_6	86	1,60E-24	CL0076
TRINITY_DN17406_c4_g1::TRINITY_DN17406_c4_g1_i2::g.83243::m.83243	2	7,1	30,315	2,1456	PF00348.16	polyprenyl_synt	121,6	2,60E-35	CL0613
TRINITY_DN17406_c4_g4::TRINITY_DN17406_c4_g4_i2::g.83246::m.83246	11	21,2	77,917	31,655	PF02847.16	MA3	87,3	6,00E-25	CL0020
TRINITY_DN17420_c0_g1::TRINITY_DN17420_c0_g1_i9::g.83584::m.83584	14	58,7	37,063	7,9528	PF00044.23	Gp_dh_N	115,7	9,50E-34	CL0063
TRINITY_DN17420_c0_g1::TRINITY_DN17420_c0_g1_i7::g.83574::m.83574	15	65,5	35,66	142,52	PF00044.23	Gp_dh_N	97,4	4,60E-28	CL0063
TRINITY_DN17420_c0_g2::TRINITY_DN17420_c0_g2_i1::g.83570::m.83570	19	68,9	36,848	95,685	PF00044.23	Gp_dh_N	113,5	4,40E-33	CL0063
TRINITY_DN17420_c0_g2::TRINITY_DN17420_c0_g2_i5::g.83586::m.83586	14	68,7	26,574	-2	PF02800.19	Gp_dh_C	240,8	4,10E-72	CL0139
TRINITY_DN17420_c0_g3::TRINITY_DN17420_c0_g3_i2::g.83576::m.83576	19	72,1	36,682	284,85	PF00044.23	Gp_dh_N	114,2	2,70E-33	CL0063
TRINITY_DN17427_c0_g1::TRINITY_DN17427_c0_g1_i5::g.83626::m.83626	9	34,9	36,722	-2	PF00933.20	Glyco_hydro_3	175,4	1,70E-51	CL0058
TRINITY_DN17427_c0_g1::TRINITY_DN17427_c0_g1_i16::g.83642::m.83642	12	22,9	73,509	48,211	PF00933.20	Glyco_hydro_3	233,2	4,40E-69	CL0058
TRINITY_DN17427_c0_g1::TRINITY_DN17427_c0_g1_i3::g.83624::m.83624	6	17,1	42,401	45,489	PF00933.20	Glyco_hydro_3	57,5	1,30E-15	CL0058
TRINITY_DN17431_c5_g1::TRINITY_DN17431_c5_g1_i7::g.83828::m.83828	2	3	93,814	2,8622	PF00076.21	RRM_1	44,3	1,10E-11	CL0221
TRINITY_DN17433_c1_g2::TRINITY_DN17433_c1_g2_i1::g.83589::m.83589	2	16,7	14,563	3,6753	PF06747.12	CHCH	37,1	2,20E-09	CL0351
TRINITY_DN17435_c0_g1::TRINITY_DN17435_c0_g1_i2::g.83592::m.83592	3	20,4	25,438	6,7662	PF00160.20	Pro_isomerase	113,8	8,20E-33	CL0475
TRINITY_DN17436_c0_g1::TRINITY_DN17436_c0_g1_i7::g.83790::m.83790	2	3,4	119,32	4,0223					
TRINITY_DN17440_c0_g1::TRINITY_DN17440_c0_g1_i7::g.84097::m.84097	5	10,5	76,306	24,349	PF00226.30	DnaJ	67,8	6,20E-19	CL0392
TRINITY_DN17440_c0_g3::TRINITY_DN17440_c0_g3_i6::g.84091::m.84091	13	58,1	29,962	323,31	PF00996.17	GDI	466,7	5,20E-140	CL0063
TRINITY_DN17440_c0_g5::TRINITY_DN17440_c0_g5_i3::g.84089::m.84089	6	37,1	18,855	138,61	PF00996.17	GDI	218	1,50E-64	CL0063
TRINITY_DN17441_c2_g4::TRINITY_DN17441_c2_g4_i3::g.83805::m.83805	1	5,2	39,764	2,1896	PF13850.5	ERGIC_N	95,3	1,90E-27	No_clan
TRINITY_DN17443_c0_g6::TRINITY_DN17443_c0_g6_i1::g.83849::m.83849	3	6,2	63,955	5,6084	PF01565.22	FAD_binding_4	61,1	8,30E-17	CL0077
TRINITY_DN17448_c2_g2::TRINITY_DN17448_c2_g2_i8::g.83900::m.83900	10	50,6	34,828	77,013	PF02209.18	VHP	55,7	3,50E-15	No_clan

TRINITY_DN17448_c2_g3::TRINITY_DN17448_c2_g3_i9::g.83903::m.83903	21	40,6	70,429	323,31	PF00626.21	Gelsolin	61,6	4,40E-17	CL0092
TRINITY_DN17451_c1_g1::TRINITY_DN17451_c1_g1_i3::g.84062::m.84062	1	6,3	34,095	3,2977					
TRINITY_DN17453_c0_g6::TRINITY_DN17453_c0_g6_i1::g.83881::m.83881	1	13,7	10,883	1,8691					
TRINITY_DN17454_c3_g1::TRINITY_DN17454_c3_g1_i1::g.84103::m.84103	4	12,8	36,913	4,7346	PF07859.12	Abhydrolase_3	177,9	2,20E-52	CL0028
TRINITY_DN17456_c0_g1::TRINITY_DN17456_c0_g1_i8::g.83943::m.83943	4	23,7	21,594	9,9987	PF00719.18	Pyrophosphatase	160,8	2,10E-47	No_clan
TRINITY_DN17457_c4_g1::TRINITY_DN17457_c4_g1_i4::g.83960::m.83960	3	14,6	23,47	205,19	PF01652.17	IF4E	182	6,10E-54	CL0625
TRINITY_DN17461_c1_g1::TRINITY_DN17461_c1_g1_i12::g.84192::m.84192	5	10,9	46,099	16,166	PF00160.20	Pro_isomerase	133,8	5,70E-39	CL0475
TRINITY_DN17463_c2_g1::TRINITY_DN17463_c2_g1_i7::g.84144::m.84144	3	10,8	40,116	5,3882	PF00128.23	Alpha-amylase	44	1,90E-11	CL0058
TRINITY_DN17467_c0_g2::TRINITY_DN17467_c0_g2_i8::g.84133::m.84133	1	5,5	26,018	2,0014	PF13877.5	RPAP3_C	84,1	7,00E-24	No_clan
TRINITY_DN17469_c0_g1::TRINITY_DN17469_c0_g1_i8::g.84329::m.84329	6	40,1	21,931	24,193	PF00071.21	Ras	222,1	2,60E-66	CL0023
TRINITY_DN17475_c1_g1::TRINITY_DN17475_c1_g1_i10::g.84374::m.84374	4	9,1	77,928	7,7034	PF10408.8	Ufd2P_core	597,3	3,50E-179	No_clan
TRINITY_DN17483_c0_g1::TRINITY_DN17483_c0_g1_i3::g.84425::m.84425	3	3,3	142,17	8,6973	PF13001.6	Ecm29	293,1	3,50E-87	No_clan
TRINITY_DN17484_c0_g3::TRINITY_DN17484_c0_g3_i1::g.84435::m.84435	6	35,6	21,921	14,427	PF08712.10	Nfu_N	109,8	4,70E-32	No_clan
TRINITY_DN17490_c0_g3::TRINITY_DN17490_c0_g3_i5::g.84477::m.84477	1	5,4	25,108	1,8779	PF00069.24	Pkinase	62,3	4,20E-17	CL0016
TRINITY_DN17493_c2_g1::TRINITY_DN17493_c2_g1_i7::g.84644::m.84644	8	19,1	57,001	15,021	PF00171.21	Aldedh	573,6	2,30E-172	CL0099
TRINITY_DN17498_c2_g1::TRINITY_DN17498_c2_g1_i6::g.83121::m.83121	5	8,5	83,225	9,3271	PF00483.22	NTP_transferase	40,6	2,00E-10	CL0110
TRINITY_DN17501_c0_g2::TRINITY_DN17501_c0_g2_i6::g.84659::m.84659	10	28,3	69,454	26,996	PF02225.21	PA	45,1	7,40E-12	CL0364
TRINITY_DN17503_c0_g1::TRINITY_DN17503_c0_g1_i2::g.84892::m.84892	3	25,2	13,712	6,7338					
TRINITY_DN17503_c1_g2::TRINITY_DN17503_c1_g2_i5::g.84903::m.84903	5	9,2	65,743	8,627	PF05701.10	WEMBL	108,6	3,00E-31	No_clan
TRINITY_DN17506_c1_g1::TRINITY_DN17506_c1_g1_i6::g.84994::m.84994	21	28,6	91,906	49,502	PF03141.15	Methyltransf_29	777,9	3,60E-234	CL0063
TRINITY_DN17507_c1_g2::TRINITY_DN17507_c1_g2_i9::g.85053::m.85053	2	4,3	69,193	3,5754	PF03969.15	AFG1_ATPase	237,7	1,60E-70	CL0023

TRINITY_DN17508_c4_g1::TRINITY_DN17508_c4_g1_i3::g.85406::m.85406	1	7	25,471	2,5218					
TRINITY_DN17508_c5_g2::TRINITY_DN17508_c5_g2_i5::g.85417::m.85417	2	16,8	13,743	7,7982	PF00295.16	Glyco_hydro_28	149,5	1,10E-43	CL0268
TRINITY_DN17508_c5_g4::TRINITY_DN17508_c5_g4_i2::g.85425::m.85425	2	41	10,482	3,7623	PF12708.6	Pectate_lyase_3	29,9	4,70E-07	CL0268
TRINITY_DN17513_c0_g1::TRINITY_DN17513_c0_g1_i8::g.85061::m.85061	3	3,8	140,89	8,9376	PF12612.7	TFCD_C	181,8	1,10E-53	No_clan
TRINITY_DN17515_c0_g1::TRINITY_DN17515_c0_g1_i3::g.85102::m.85102	8	16,4	67,94	19,394	PF01268.18	FTHFS	844,1	3,30E-254	CL0023
TRINITY_DN17518_c0_g1::TRINITY_DN17518_c0_g1_i5::g.85741::m.85741	3	21,5	22,259	9,1185	PF03931.14	Skp1_POZ	107,2	3,20E-31	CL0033
TRINITY_DN17518_c0_g2::TRINITY_DN17518_c0_g2_i4::g.85745::m.85745	2	17,2	19,307	3,4562	PF03931.14	Skp1_POZ	105,4	1,20E-30	CL0033
TRINITY_DN17522_c3_g1::TRINITY_DN17522_c3_g1_i3::g.85131::m.85131	1	9,4	12,605	2,0874	PF00238.18	Ribosomal_L14	159,8	2,50E-47	No_clan
TRINITY_DN17524_c0_g2::TRINITY_DN17524_c0_g2_i3::g.85311::m.85311	2	9,1	34,251	2,8728	PF08543.11	Phos_pyr_kin	53,4	2,20E-14	CL0118
TRINITY_DN17527_c0_g3::TRINITY_DN17527_c0_g3_i1::g.85247::m.85247	3	5,7	50,55	4,751	PF05631.13	MFS_5	628,4	2,50E-189	CL0015
TRINITY_DN17528_c1_g1::TRINITY_DN17528_c1_g1_i8::g.85347::m.85347	2	17,2	19,447	5,0124	PF00350.22	Dynamin_N	106,1	1,80E-30	CL0023
TRINITY_DN17528_c1_g2::TRINITY_DN17528_c1_g2_i6::g.85342::m.85342	6	12,5	68,444	8,874	PF00350.22	Dynamin_N	188,2	1,00E-55	CL0023
TRINITY_DN17530_c3_g12::TRINITY_DN17530_c3_g12_i1::g.85464::m.85464	1	11	12,49	13,922	PF02326.14	YMF19	84,1	8,00E-24	CL0255
TRINITY_DN17531_c3_g1::TRINITY_DN17531_c3_g1_i2::g.85473::m.85473	2	15,5	17,009	3,3485					
TRINITY_DN17539_c0_g2::TRINITY_DN17539_c0_g2_i3::g.85610::m.85610	5	11,1	76,905	16,76	PF01103.22	Bac_surface_Ag	59,3	4,00E-16	CL0193
TRINITY_DN17541_c1_g1::TRINITY_DN17541_c1_g1_i11::g.86034::m.86034	1	2,2	99,52	2,8989					
TRINITY_DN17545_c0_g1::TRINITY_DN17545_c0_g1_i1::g.84935::m.84935	11	20,1	81,759	6,064	PF00458.19	WHEP-TRS	33,5	3,30E-08	CL0600
TRINITY_DN17545_c0_g1::TRINITY_DN17545_c0_g1_i11::g.84946::m.84946	11	20,9	77,353	2,0152	PF00458.19	WHEP-TRS	35,2	9,70E-09	CL0600
TRINITY_DN17545_c0_g1::TRINITY_DN17545_c0_g1_i5::g.84940::m.84940	12	23,4	77,263	29,386	PF00458.19	WHEP-TRS	35,2	9,70E-09	CL0600
TRINITY_DN17548_c3_g2::TRINITY_DN17548_c3_g2_i2::g.85798::m.85798	6	23,5	33,783	14,22	PF04321.16	RmlD_sub_bind	50,6	1,30E-13	CL0063
TRINITY_DN17549_c7_g7::TRINITY_DN17549_c7_g7_i1::g.85830::m.85830	2	28,2	11,347	25,806	PF11721.7	Malectin	29,1	8,70E-07	CL0468

TRINITY_DN17553_c1_g1::TRINITY_DN17553_c1_g1_i2::g.85833::m.85833	2	10,1	22,435	31,183	PF00255.18	GSHPx	142,6	2,80E-42	CL0172
TRINITY_DN17557_c0_g1::TRINITY_DN17557_c0_g1_i2::g.85865::m.85865	2	6,7	31,878	2,45	PF13519.5	VWA_2	97,8	4,80E-28	CL0128
TRINITY_DN17558_c0_g1::TRINITY_DN17558_c0_g1_i9::g.85984::m.85984	10	23,1	66,483	33,16	PF00389.29	2-Hacid_dh	118,2	1,70E-34	CL0325
TRINITY_DN17561_c0_g1::TRINITY_DN17561_c0_g1_i2::g.86132::m.86132	6	4,1	274,67	7,7336	PF08082.10	PRO8NT	283,2	4,20E-85	No_clan
TRINITY_DN17564_c2_g2::TRINITY_DN17564_c2_g2_i9::g.86086::m.86086	9	19	70,829	9,7716	PF00076.21	RRM_1	70,4	7,50E-20	CL0221
TRINITY_DN17564_c2_g2::TRINITY_DN17564_c2_g2_i5::g.86079::m.86079	8	18,6	53,371	15,75	PF01842.24	ACT	45,3	4,80E-12	CL0070
TRINITY_DN17566_c1_g1::TRINITY_DN17566_c1_g1_i8::g.86112::m.86112	8	24,2	59,201	18,32	PF00682.18	HMGL-like	302,8	2,10E-90	CL0036
TRINITY_DN17573_c2_g1::TRINITY_DN17573_c2_g1_i14::g.86248::m.86248	2	13,3	26,666	3,6355					
TRINITY_DN17576_c2_g1::TRINITY_DN17576_c2_g1_i10::g.86267::m.86267	2	24,6	12,96	4,6442					
TRINITY_DN17578_c2_g1::TRINITY_DN17578_c2_g1_i2::g.85652::m.85652	1	5,1	41,293	3,1935	PF01398.20	JAB	118,1	1,90E-34	CL0366
TRINITY_DN17578_c3_g1::TRINITY_DN17578_c3_g1_i5::g.85666::m.85666	13	17,5	119,74	37,309	PF00862.18	Sucrose_synth	40,4	1,10E-10	CL0113
TRINITY_DN17586_c3_g1::TRINITY_DN17586_c3_g1_i5::g.86439::m.86439	3	5,4	87,068	6,2634	PF04499.14	SAPS	107,8	5,70E-31	No_clan
TRINITY_DN17586_c3_g4::TRINITY_DN17586_c3_g4_i6::g.86457::m.86457	2	5,2	58,755	2,4843	PF04499.14	SAPS	143,7	7,10E-42	No_clan
TRINITY_DN17588_c1_g2::TRINITY_DN17588_c1_g2_i1::g.86528::m.86528	2	12,9	21,982	4,2696	PF01641.17	SelR	160,9	1,10E-47	CL0080
TRINITY_DN17602_c0_g2::TRINITY_DN17602_c0_g2_i1::g.86960::m.86960	2	1,1	229,56	2,9981	PF13764.5	E3_UbLigase_R4	1090,2	0	No_clan
TRINITY_DN17602_c0_g3::TRINITY_DN17602_c0_g3_i7::g.86972::m.86972	4	10,9	40,891	5,9301	PF01380.21	SIS	114,1	3,60E-33	CL0067
TRINITY_DN17602_c0_g7::TRINITY_DN17602_c0_g7_i2::g.86978::m.86978	3	2,6	184,26	6,1009	PF00569.16	ZZ	36,5	2,90E-09	CL0006
TRINITY_DN17610_c1_g1::TRINITY_DN17610_c1_g1_i7::g.87051::m.87051	1	12	18,418	2,5041					
TRINITY_DN17612_c1_g2::TRINITY_DN17612_c1_g2_i3::g.87024::m.87024	3	5,2	96,13	5,4543	PF03810.18	IBN_N	50,6	1,20E-13	CL0020
TRINITY_DN17612_c1_g4::TRINITY_DN17612_c1_g4_i2::g.87038::m.87038	2	6,1	59,426	4,5283	PF13513.5	HEAT_EZ	34,4	2,00E-08	CL0020
TRINITY_DN17613_c0_g1::TRINITY_DN17613_c0_g1_i11::g.87113::m.87113	4	8	87,617	9,9925	PF01434.17	Peptidase_M41	142,6	1,20E-41	CL0126
TRINITY_DN17614_c0_g2::TRINITY_DN17614_c0_g2_i5::g.87093::m.87093	20	42,9	61,676	230,15	PF00085.19	Thioredoxin	106,1	7,50E-31	CL0172

TRINITY_DN17618_c2_g2::TRINITY_DN17618_c2_g2_i9::g.87148::m.87148	2	27,1	13,265	7,0175	PF00067.21	p450	78,2	4,80E-22	No_clan
TRINITY_DN17619_c0_g2::TRINITY_DN17619_c0_g2_i5::g.87168::m.87168	2	4,4	74,895	3,0346	PF08553.9	VID27	166,7	8,80E-49	No_clan
TRINITY_DN17621_c1_g3::TRINITY_DN17621_c1_g3_i2::g.87259::m.87259	8	21,9	47,142	17,338	PF02020.17	W2	70,2	1,10E-19	CL0020
TRINITY_DN17623_c2_g1::TRINITY_DN17623_c2_g1_i4::g.87423::m.87423	3	33,6	14,225	91,099	PF06521.10	PAR1	142,9	5,50E-42	No_clan
TRINITY_DN17623_c4_g3::TRINITY_DN17623_c4_g3_i4::g.87434::m.87434	2	23,8	14,074	6,6821					
TRINITY_DN17625_c1_g2::TRINITY_DN17625_c1_g2_i5::g.87298::m.87298	1	2,9	53,233	2,0992					
TRINITY_DN17627_c2_g1::TRINITY_DN17627_c2_g1_i6::g.87313::m.87313	3	14,3	24,448	6,2436	PF14681.5	UPRTase	231,9	4,60E-69	CL0533
TRINITY_DN17630_c0_g1::TRINITY_DN17630_c0_g1_i8::g.87337::m.87337	7	50	14,722	323,31	PF00462.23	Glutaredoxin	68,1	5,40E-19	CL0172
TRINITY_DN17631_c3_g6::TRINITY_DN17631_c3_g6_i1::g.87349::m.87349	3	20,5	21,149	13,781	PF04969.15	CS	34	4,20E-08	CL0190
TRINITY_DN17638_c0_g5::TRINITY_DN17638_c0_g5_i1::g.87396::m.87396	6	45,3	16,868	14,047	PF00295.16	Glyco_hydro_28	113,9	7,30E-33	CL0268
TRINITY_DN17644_c1_g2::TRINITY_DN17644_c1_g2_i9::g.87544::m.87544	6	15,9	53,332	14,761	PF00199.18	Catalase	582,3	4,20E-175	No_clan
TRINITY_DN17658_c5_g3::TRINITY_DN17658_c5_g3_i2::g.87770::m.87770	2	11,3	20,862	2,462	PF00227.25	Proteasome	108,3	3,10E-31	CL0052
TRINITY_DN17662_c4_g1::TRINITY_DN17662_c4_g1_i8::g.87880::m.87880	10	38,3	40,044	141,26	PF00288.25	GHMP_kinases_N	40,7	1,90E-10	CL0329
TRINITY_DN17665_c0_g2::TRINITY_DN17665_c0_g2_i3::g.87796::m.87796	1	7,8	13,101	4,4317	PF13417.5	GST_N_3	72,4	2,70E-20	CL0172
TRINITY_DN17670_c0_g2::TRINITY_DN17670_c0_g2_i7::g.87973::m.87973	5	10,8	57,444	9,2305	PF10250.8	O-FucT	224,9	2,00E-66	CL0113
TRINITY_DN17673_c0_g1::TRINITY_DN17673_c0_g1_i5::g.88024::m.88024	1	2,2	60,42	2,2779	PF03552.13	Cellulose_synt	607,1	4,90E-182	CL0110
TRINITY_DN17673_c0_g1::TRINITY_DN17673_c0_g1_i8::g.88029::m.88029	1	24,1	11,805	1,8422					
TRINITY_DN17674_c1_g2::TRINITY_DN17674_c1_g2_i8::g.88061::m.88061	3	8,2	58,114	5,4841	PF08241.11	Methyltransf_11	29,1	1,10E-06	CL0063
TRINITY_DN17675_c2_g3::TRINITY_DN17675_c2_g3_i6::g.88141::m.88141	4	18,5	24,176	59,901	PF00213.17	OSCP	126,7	9,50E-37	CL0255
TRINITY_DN17680_c4_g1::TRINITY_DN17680_c4_g1_i22::g.88254::m.88254	4	8,7	65,306	6,7258	PF07651.15	ANTH	323,8	6,20E-97	CL0009
TRINITY_DN17687_c2_g1::TRINITY_DN17687_c2_g1_i6::g.88326::m.88326	6	24	34,738	14,405	PF08240.11	ADH_N	35,9	5,20E-09	CL0296

TRINITY_DN17688_c2_g2::TRINITY_DN17688_c2_g2_i2::g.88270::m.88270	1	8,7	14,025	2,2359	PF00759.18	Glyco_hydro_9	23,5	3,20E-05	CL0059
TRINITY_DN17688_c2_g3::TRINITY_DN17688_c2_g3_i4::g.88274::m.88274	1	9,1	10,755	10,174	PF00759.18	Glyco_hydro_9	88,6	5,20E-25	CL0059
TRINITY_DN17688_c2_g6::TRINITY_DN17688_c2_g6_i1::g.88272::m.88272	2	23,5	12,696	135,97	PF00759.18	Glyco_hydro_9	107,3	1,10E-30	CL0059
TRINITY_DN17690_c0_g3::TRINITY_DN17690_c0_g3_i4::g.88277::m.88277	8	68,8	13,378	294,48	PF01042.20	Ribonuc_L-PSP	139,3	5,30E-41	CL0534
TRINITY_DN17695_c2_g1::TRINITY_DN17695_c2_g1_i3::g.88380::m.88380	1	0,6	224,76	1,8997	PF03104.18	DNA_pol_B_exo1	278,1	8,70E-83	CL0219
TRINITY_DN17697_c2_g1::TRINITY_DN17697_c2_g1_i5::g.88410::m.88410	8	16,6	77,439	16,48	PF03460.16	NIR_SIR_ferr	58,8	3,20E-16	No_clan
TRINITY_DN17699_c0_g2::TRINITY_DN17699_c0_g2_i2::g.88416::m.88416	12	10,4	177,31	23,953	PF00310.20	GATase_2	587,6	1,10E-176	CL0052
TRINITY_DN17700_c1_g1::TRINITY_DN17700_c1_g1_i9::g.86845::m.86845	3	15,1	29,123	5,0753	PF00378.19	ECH_1	177,1	3,50E-52	CL0127
TRINITY_DN17700_c2_g2::TRINITY_DN17700_c2_g2_i11::g.86871::m.86871	1	11,9	13,451	4,1379					
TRINITY_DN17704_c0_g1::TRINITY_DN17704_c0_g1_i3::g.88593::m.88593	4	6,8	89,339	7,3981	PF04548.15	AIG1	102,9	1,40E-29	CL0023
TRINITY_DN17708_c1_g1::TRINITY_DN17708_c1_g1_i3::g.88548::m.88548	2	8,8	49,104	25,477	PF00022.18	Actin	510,3	2,80E-153	CL0108
TRINITY_DN17715_c1_g2::TRINITY_DN17715_c1_g2_i7::g.88682::m.88682	4	21,6	31,142	19,318	PF00923.18	TAL_FSA	163,5	6,30E-48	CL0036
TRINITY_DN17716_c3_g1::TRINITY_DN17716_c3_g1_i5::g.88746::m.88746	6	21,3	45,039	12,305	PF02403.21	Seryl_tRNA_N	30,6	2,80E-07	CL0298
TRINITY_DN17717_c2_g1::TRINITY_DN17717_c2_g1_i3::g.88728::m.88728	1	8,9	12,464	1,958					
TRINITY_DN17718_c6_g2::TRINITY_DN17718_c6_g2_i4::g.88774::m.88774	2	2,2	91,863	3,3245	PF14381.5	EDR1	189,1	6,70E-56	CL0125
TRINITY_DN17727_c1_g3::TRINITY_DN17727_c1_g3_i1::g.88887::m.88887	1	3,6	34,891	1,8657	PF00450.21	Peptidase_S10	325,9	4,90E-97	CL0028
TRINITY_DN17731_c6_g1::TRINITY_DN17731_c6_g1_i4::g.89011::m.89011	2	16,3	22,177	2,042					
TRINITY_DN17735_c1_g1::TRINITY_DN17735_c1_g1_i1::g.89033::m.89033	2	12,1	17,799	30,531	PF13602.5	ADH_zinc_N_2	75,7	6,50E-21	CL0063
TRINITY_DN17735_c1_g2::TRINITY_DN17735_c1_g2_i2::g.89035::m.89035	2	12,1	18,556	3,4276	PF08240.11	ADH_N	36,6	3,10E-09	CL0296
TRINITY_DN17739_c0_g2::TRINITY_DN17739_c0_g2_i3::g.89048::m.89048	1	7,8	19,052	20,191	PF05512.10	AWPM-19	180,1	2,30E-53	No_clan
TRINITY_DN17740_c0_g1::TRINITY_DN17740_c0_g1_i2::g.89044::m.89044	5	36,8	18,593	35,451	PF00155.20	Aminotran_1_2	53,7	1,70E-14	CL0061

TRINITY_DN17740_c0_g2::TRINITY_DN17740_c0_g2_i7::g.89045::m.89045	6	35,3	30,36	21,767	PF00155.20	Aminotran_1_2	62,6	3,40E-17	CL0061
TRINITY_DN17744_c7_g1::TRINITY_DN17744_c7_g1_i4::g.89103::m.89103	2	10,5	24,364	3,9818	PF14938.5	SNAP	77,4	1,10E-21	CL0020
TRINITY_DN17745_c1_g5::TRINITY_DN17745_c1_g5_i2::g.88501::m.88501	1	14,5	11,157	2,0359	PF00428.18	Ribosomal_60s	86,6	1,20E-24	No_clan
TRINITY_DN17751_c2_g3::TRINITY_DN17751_c2_g3_i5::g.89327::m.89327	22	36,7	72,353	167,71	PF16363.4	GDP_Man_Dehyd	206,7	5,20E-61	CL0063
TRINITY_DN17755_c1_g2::TRINITY_DN17755_c1_g2_i5::g.89168::m.89168	5	14	40,499	8,1959	PF00364.21	Biotin_lipoyl	60	1,40E-16	CL0105
TRINITY_DN17756_c1_g1::TRINITY_DN17756_c1_g1_i7::g.89229::m.89229	4	4,4	156,9	6,5878	PF14443.5	DBC1	144	2,10E-42	No_clan
TRINITY_DN17758_c1_g2::TRINITY_DN17758_c1_g2_i7::g.89243::m.89243	3	6,3	41,919	4,2894	PF03839.15	Sec62	49,2	4,10E-13	No_clan
TRINITY_DN17765_c0_g1::TRINITY_DN17765_c0_g1_i1::g.89341::m.89341	4	16,6	38,439	8,3268	PF02574.15	S-methyl_trans	262,3	5,80E-78	No_clan
TRINITY_DN17769_c1_g1::TRINITY_DN17769_c1_g1_i1::g.89345::m.89345	1	8,4	14,522	99,462					
TRINITY_DN17769_c1_g1::TRINITY_DN17769_c1_g1_i4::g.89348::m.89348	1	18,5	15,423	42,045					
TRINITY_DN17776_c0_g1::TRINITY_DN17776_c0_g1_i2::g.89550::m.89550	1	4,2	33,674	2,0768	PF07859.12	Abhydrolase_3	149,3	1,30E-43	CL0028
TRINITY_DN17776_c1_g1::TRINITY_DN17776_c1_g1_i2::g.89554::m.89554	3	32,6	14,219	11,943	PF07859.12	Abhydrolase_3	39	7,30E-10	CL0028
TRINITY_DN17784_c0_g1::TRINITY_DN17784_c0_g1_i3::g.89656::m.89656	2	7,9	37,086	4,2346					
TRINITY_DN17792_c0_g2::TRINITY_DN17792_c0_g2_i8::g.89735::m.89735	20	70,1	38,258	323,31	PF00274.18	Glycolytic	568,7	3,30E-171	CL0035
TRINITY_DN17792_c0_g2::TRINITY_DN17792_c0_g2_i6::g.89728::m.89728	7	72,5	13,736	2,0194	PF00274.18	Glycolytic	180,5	3,50E-53	CL0035
TRINITY_DN17792_c0_g5::TRINITY_DN17792_c0_g5_i3::g.89751::m.89751	1	19,4	17,556	2,7121					
TRINITY_DN17792_c0_g7::TRINITY_DN17792_c0_g7_i6::g.89759::m.89759	1	26	11,039	6,2723					
TRINITY_DN17794_c1_g1::TRINITY_DN17794_c1_g1_i3::g.89692::m.89692	2	12,9	20,919	3,4936	PF01138.20	RNase_PH	102,7	1,90E-29	CL0329
TRINITY_DN17797_c0_g1::TRINITY_DN17797_c0_g1_i20::g.88479::m.88479	1	3,3	23,802	2,2157	PF01544.17	CorA	35,9	4,70E-09	No_clan
TRINITY_DN17805_c0_g1::TRINITY_DN17805_c0_g1_i5::g.89980::m.89980	1	11,9	18,065	6,876	PF01592.15	NifU_N	185	5,20E-55	CL0233
TRINITY_DN17806_c2_g2::TRINITY_DN17806_c2_g2_i4::g.90030::m.90030	4	8,8	80,294	7,2263	PF12932.6	Sec16	84,2	9,30E-24	No_clan

TRINITY_DN17808_c3_g2::TRINITY_DN17808_c3_g2_i3::g.89986::m.89986	1	11,8	11,357	134,07					
TRINITY_DN17814_c1_g1::TRINITY_DN17814_c1_g1_i9::g.90451::m.90451	1	4,8	30,208	2,0981					
TRINITY_DN17814_c1_g2::TRINITY_DN17814_c1_g2_i3::g.90444::m.90444	6	46,3	16,871	113,66	PF00085.19	Thioredoxin	81,5	3,20E-23	CL0172
TRINITY_DN17821_c0_g1::TRINITY_DN17821_c0_g1_i3::g.91084::m.91084	1	12,1	11,443	1,899	PF07724.13	AAA_2	101,6	4,60E-29	CL0023
TRINITY_DN17826_c0_g3::TRINITY_DN17826_c0_g3_i6::g.90229::m.90229	3	16,8	19,582	30,686	PF03018.13	Dirigent	169,6	3,40E-50	CL0650
TRINITY_DN17827_c3_g3::TRINITY_DN17827_c3_g3_i1::g.90327::m.90327	1	3,2	48,104	5,3182	PF08263.11	LRRNT_2	30,7	2,60E-07	No_clan
TRINITY_DN17835_c3_g1::TRINITY_DN17835_c3_g1_i1::g.90619::m.90619	1	3,3	52,23	1,9165	PF00063.20	Myosin_head	448,6	3,20E-134	CL0023
TRINITY_DN17836_c0_g3::TRINITY_DN17836_c0_g3_i4::g.90474::m.90474	2	17,6	14,944	4,1281	PF01521.19	Fe-S_biosyn	42,5	5,50E-11	No_clan
TRINITY_DN17837_c2_g1::TRINITY_DN17837_c2_g1_i9::g.90611::m.90611	21	50,3	50,685	323,31	PF00155.20	Aminotran_1_2	316,4	2,30E-94	CL0061
TRINITY_DN17845_c1_g3::TRINITY_DN17845_c1_g3_i3::g.90638::m.90638	3	11,2	41,322	5,7796	PF00332.17	Glyco_hydro_17	294,1	1,20E-87	CL0058
TRINITY_DN17846_c4_g1::TRINITY_DN17846_c4_g1_i2::g.90658::m.90658	2	10,5	28,461	4,7875	PF00069.24	Pkinase	97,3	8,40E-28	CL0016
TRINITY_DN17846_c4_g3::TRINITY_DN17846_c4_g3_i1::g.90654::m.90654	3	9,5	35,421	4,4957	PF00326.20	Peptidase_S9	50,7	1,40E-13	CL0028
TRINITY_DN17847_c0_g1::TRINITY_DN17847_c0_g1_i7::g.90759::m.90759	13	38,5	42,685	22,701	PF00022.18	Actin	449	1,10E-134	CL0108
TRINITY_DN17851_c1_g3::TRINITY_DN17851_c1_g3_i2::g.90156::m.90156	4	20,7	36,796	8,5098	PF00491.20	Arginase	224,4	1,90E-66	CL0302
TRINITY_DN17853_c1_g4::TRINITY_DN17853_c1_g4_i19::g.90697::m.90697	6	33,6	23,967	319,48	PF01557.17	FAA_hydrolase	201,4	1,30E-59	CL0377
TRINITY_DN17857_c0_g1::TRINITY_DN17857_c0_g1_i1::g.90819::m.90819	11	25,3	74,31	66,073	PF05817.13	Ribophorin_II	615,5	1,10E-184	No_clan
TRINITY_DN17861_c1_g1::TRINITY_DN17861_c1_g1_i1::g.90803::m.90803	5	51,4	11,966	3,4094	PF00141.22	peroxidase	69,8	2,50E-19	CL0617
TRINITY_DN17861_c1_g1::TRINITY_DN17861_c1_g1_i8::g.90805::m.90805	6	50,6	16,841	148,3	PF00141.22	peroxidase	108,9	2,70E-31	CL0617
TRINITY_DN17863_c0_g3::TRINITY_DN17863_c0_g3_i3::g.91035::m.91035	14	22,4	71,932	30,274	PF00071.21	Ras	49,3	3,70E-13	CL0023
TRINITY_DN17874_c2_g1::TRINITY_DN17874_c2_g1_i9::g.91168::m.91168	7	12,7	73,773	20,095	PF02990.15	EMP70	740,2	1,10E-222	No_clan

TRINITY_DN17874_c2_g4::TRINITY_DN17874_c2_g4_i3::g.91179::m.91179	6	12,4	72,941	56,071	PF02990.15	EMP70	721,6	4,70E-217	No_clan
TRINITY_DN17875_c1_g1::TRINITY_DN17875_c1_g1_i11::g.91219::m.91219	1	12,4	13,521	2,6731	PF02263.18	GBP	37,3	1,70E-09	CL0023
TRINITY_DN17879_c1_g3::TRINITY_DN17879_c1_g3_i5::g.91260::m.91260	3	6,4	66,425	6,2205	PF00005.26	ABC_tran	68,2	9,00E-19	CL0023
TRINITY_DN17881_c0_g1::TRINITY_DN17881_c0_g1_i3::g.91227::m.91227	2	7,4	48,01	5,8525	PF12796.6	Ank_2	58,3	8,10E-16	CL0465
TRINITY_DN17882_c2_g1::TRINITY_DN17882_c2_g1_i14::g.91309::m.91309	1	5,3	29,24	2,0378	PF00501.27	AMP-binding	130	8,30E-38	CL0378
TRINITY_DN17884_c0_g1::TRINITY_DN17884_c0_g1_i1::g.91267::m.91267	2	22,8	15,342	8,1237					
TRINITY_DN17889_c3_g3::TRINITY_DN17889_c3_g3_i2::g.91373::m.91373	3	17,4	17,508	3,728	PF12146.7	Hydrolase_4	76,8	1,40E-21	CL0028
TRINITY_DN17891_c2_g1::TRINITY_DN17891_c2_g1_i4::g.91423::m.91423	4	29,4	16,137	15,588	PF01778.16	Ribosomal_L28e	116,7	8,30E-34	No_clan
TRINITY_DN17896_c3_g1::TRINITY_DN17896_c3_g1_i3::g.91440::m.91440	1	8,3	22,192	2,6178	PF03248.12	Rer1	246,5	1,10E-73	No_clan
TRINITY_DN17897_c2_g2::TRINITY_DN17897_c2_g2_i2::g.91535::m.91535	10	21,5	75,298	16,638	PF03081.14	Exo70	408,3	2,70E-122	CL0295
TRINITY_DN17898_c0_g1::TRINITY_DN17898_c0_g1_i6::g.91458::m.91458	7	4,4	233,48	12,929	PF07926.11	TPR_MLP1_2	93,8	7,80E-27	No_clan
TRINITY_DN17899_c1_g1::TRINITY_DN17899_c1_g1_i20::g.90008::m.90008	12	36	57,05	305,66	PF00202.20	Aminotran_3	306,1	2,70E-91	CL0061
TRINITY_DN17906_c0_g1::TRINITY_DN17906_c0_g1_i4::g.91749::m.91749	6	18	42,536	66,587	PF02883.19	Alpha_adaptinC2	30,9	2,40E-07	CL0159
TRINITY_DN17906_c0_g2::TRINITY_DN17906_c0_g2_i5::g.91748::m.91748	3	7,4	53,676	6,3102	PF01602.19	Adaptin_N	486,9	6,30E-146	CL0020
TRINITY_DN17907_c0_g1::TRINITY_DN17907_c0_g1_i1::g.91817::m.91817	1	2,4	67,759	2,0881	PF03164.13	Mon1	480,1	5,20E-144	No_clan
TRINITY_DN17908_c2_g1::TRINITY_DN17908_c2_g1_i5::g.91796::m.91796	4	13,8	42,243	7,9203	PF03283.12	PAE	524,1	1,60E-157	CL0028
TRINITY_DN17913_c4_g1::TRINITY_DN17913_c4_g1_i1::g.91856::m.91856	2	5,6	45,277	19,233	PF03009.16	GDPD	228	1,50E-67	CL0384
TRINITY_DN17918_c1_g1::TRINITY_DN17918_c1_g1_i4::g.91866::m.91866	1	12,1	15,567	2,2497	PF00106.24	adh_short	73,1	1,90E-20	CL0063
TRINITY_DN17919_c1_g1::TRINITY_DN17919_c1_g1_i2::g.91916::m.91916	3	3,8	123,31	4,9417	PF13646.5	HEAT_2	33,5	3,90E-08	CL0020
TRINITY_DN17919_c1_g4::TRINITY_DN17919_c1_g4_i5::g.91938::m.91938	4	5,4	122,56	9,3238	PF13646.5	HEAT_2	31,2	1,90E-07	CL0020

TRINITY_DN17921_c2_g1::TRINITY_DN17921_c2_g1_i7::g.92112::m.92112	21	25,8	111,54	145,03	PF01411.18	tRNA-synt_2c	739,5	2,00E-222	CL0040
TRINITY_DN17921_c3_g2::TRINITY_DN17921_c3_g2_i1::g.92117::m.92117	21	8	406,31	53,331	PF06012.11	DUF908	113,6	1,20E-32	No_clan
TRINITY_DN17922_c0_g1::TRINITY_DN17922_c0_g1_i13::g.92083::m.92083	2	1,5	135,79	2,4754	PF11262.7	Tho2	330,6	7,70E-99	No_clan
TRINITY_DN17923_c2_g2::TRINITY_DN17923_c2_g2_i2::g.91995::m.91995	3	4,4	91,851	5,2062	PF04100.11	Vps53_N	502,2	8,00E-151	CL0295
TRINITY_DN17924_c2_g1::TRINITY_DN17924_c2_g1_i1::g.91979::m.91979	2	12,5	29,8	4,9743	PF01336.24	tRNA_anti-codon	27,2	2,60E-06	CL0021
TRINITY_DN17925_c2_g1::TRINITY_DN17925_c2_g1_i5::g.91985::m.91985	3	29,3	15,664	5,8239					
TRINITY_DN17927_c1_g1::TRINITY_DN17927_c1_g1_i3::g.92125::m.92125	2	10,8	37,123	8,1322	PF01012.20	ETF	112	2,80E-32	CL0039
TRINITY_DN17928_c2_g1::TRINITY_DN17928_c2_g1_i2::g.92278::m.92278	4	19,3	29,8	7,8547	PF02230.15	Abhydrolase_2	164,3	3,30E-48	CL0028
TRINITY_DN17932_c0_g2::TRINITY_DN17932_c0_g2_i2::g.92648::m.92648	1	3,2	38,726	2,1317					
TRINITY_DN17933_c0_g2::TRINITY_DN17933_c0_g2_i1::g.92168::m.92168	3	35,3	14,818	11,512	PF00173.27	Cyt-b5	90,6	4,90E-26	No_clan
TRINITY_DN17936_c4_g1::TRINITY_DN17936_c4_g1_i9::g.92365::m.92365	1	15,3	13,605	1,9505	PF04142.14	Nuc_sug_transp	37,2	1,70E-09	CL0184
TRINITY_DN17937_c1_g5::TRINITY_DN17937_c1_g5_i2::g.92219::m.92219	2	21,2	12,383	3,5108	PF00742.18	Homoserine_dh	60,3	2,00E-16	No_clan
TRINITY_DN17937_c1_g6::TRINITY_DN17937_c1_g6_i1::g.92221::m.92221	1	8,8	12,155	1,9134	PF00742.18	Homoserine_dh	55,8	5,00E-15	No_clan
TRINITY_DN17938_c1_g2::TRINITY_DN17938_c1_g2_i1::g.92333::m.92333	1	3,3	36,575	5,5123	PF04107.12	GCS2	215,2	1,10E-63	CL0286
TRINITY_DN17938_c1_g3::TRINITY_DN17938_c1_g3_i1::g.92335::m.92335	4	22	23,812	7,6439	PF04107.12	GCS2	85,6	3,40E-24	CL0286
TRINITY_DN17942_c1_g1::TRINITY_DN17942_c1_g1_i6::g.91683::m.91683	5	9,1	57,333	9,8567	PF02990.15	EMP70	450,9	5,20E-135	No_clan
TRINITY_DN17944_c2_g2::TRINITY_DN17944_c2_g2_i3::g.92569::m.92569	5	12,5	69,584	12,209	PF07738.12	Sad1_UNC	108,3	2,60E-31	CL0202
TRINITY_DN17952_c0_g1::TRINITY_DN17952_c0_g1_i8::g.92586::m.92586	3	4,7	86,093	3,6845	PF00888.21	Cullin	606,6	5,30E-182	No_clan
TRINITY_DN17953_c1_g8::TRINITY_DN17953_c1_g8_i1::g.91726::m.91726	2	10	30,05	3,1424	PF02666.14	PS_Dcarbxylase	198,1	1,00E-58	No_clan
TRINITY_DN17957_c0_g1::TRINITY_DN17957_c0_g1_i11::g.92631::m.92631	8	3,2	405,77	11,355	PF06012.11	DUF908	51,9	7,10E-14	No_clan

TRINITY_DN17965_c0_g2::TRINITY_DN17965_c0_g2_i2::g.92668::m.92668	1	11	14,018	2,1022	PF00815.19	Histidinol_dh	163,9	5,20E-48	CL0099
TRINITY_DN17968_c0_g2::TRINITY_DN17968_c0_g2_i1::g.92847::m.92847	2	2,1	157,5	3,786	PF12783.6	Sec7_N	96,2	1,70E-27	No_clan
TRINITY_DN17970_c3_g1::TRINITY_DN17970_c3_g1_i6::g.92954::m.92954	5	12,1	59,26	9,9672	PF05577.11	Peptidase_S28	282,3	5,70E-84	CL0028
TRINITY_DN17973_c0_g1::TRINITY_DN17973_c0_g1_i1::g.92481::m.92481	8	19	50,516	4,5328	PF02518.25	HATPase_c	58,9	6,10E-16	CL0025
TRINITY_DN17973_c0_g2::TRINITY_DN17973_c0_g2_i4::g.92495::m.92495	4	26,8	20,164	12,079	PF03501.14	S10_plectin	146	2,50E-43	No_clan
TRINITY_DN17973_c0_g3::TRINITY_DN17973_c0_g3_i3::g.92497::m.92497	14	20,8	80,632	63,459	PF02518.25	HATPase_c	55,6	6,20E-15	CL0025
TRINITY_DN17973_c0_g5::TRINITY_DN17973_c0_g5_i1::g.92489::m.92489	4	14,5	29,153	3,4154	PF00183.17	HSP90	359,7	2,60E-107	No_clan
TRINITY_DN17978_c0_g1::TRINITY_DN17978_c0_g1_i12::g.93003::m.93003	3	10	51,541	23,007	PF01409.19	tRNA-synt_2d	156,2	9,40E-46	CL0040
TRINITY_DN17979_c4_g2::TRINITY_DN17979_c4_g2_i7::g.93178::m.93178	5	11,8	67,384	9,7933	PF00258.24	Flavodoxin_1	109,6	1,30E-31	CL0042
TRINITY_DN17980_c0_g1::TRINITY_DN17980_c0_g1_i2::g.92937::m.92937	1	11,1	25,886	25,697	PF09066.9	B2-adapt-app_C	98,5	2,10E-28	CL0545
TRINITY_DN17985_c0_g4::TRINITY_DN17985_c0_g4_i1::g.93309::m.93309	5	19,7	36,414	14,1	PF00346.18	Complex1_49kDa	406,6	3,70E-122	No_clan
TRINITY_DN17986_c0_g1::TRINITY_DN17986_c0_g1_i2::g.93139::m.93139	4	17,3	29,983	5,5002	PF12931.6	Sec16_C	28,2	1,30E-06	No_clan
TRINITY_DN17990_c1_g1::TRINITY_DN17990_c1_g1_i2::g.93320::m.93320	2	10,2	30,203	5,4422	PF00240.22	ubiquitin	38,1	8,40E-10	CL0072
TRINITY_DN17993_c0_g1::TRINITY_DN17993_c0_g1_i2::g.93217::m.93217	3	12,9	36,664	7,2579	PF00348.16	polyprenyl_synt	121,3	3,30E-35	CL0613
TRINITY_DN17996_c1_g1::TRINITY_DN17996_c1_g1_i2::g.93353::m.93353	2	7,4	26,624	2,4113					
TRINITY_DN18000_c3_g4::TRINITY_DN18000_c3_g4_i1::g.93345::m.93345	1	8,6	17,972	2,9448					
TRINITY_DN18002_c1_g3::TRINITY_DN18002_c1_g3_i1::g.93438::m.93438	4	8,4	57,144	6,6475	PF00759.18	Glyco_hydro_9	445,2	2,80E-133	CL0059
TRINITY_DN18003_c1_g3::TRINITY_DN18003_c1_g3_i3::g.93450::m.93450	8	32,1	35,838	34,876	PF03168.12	LEA_2	54,9	9,50E-15	CL0159
TRINITY_DN18004_c1_g11::TRINITY_DN18004_c1_g11_i1::g.93466::m.93466	3	24,2	17,554	9,3273	PF02798.19	GST_N	21,9	0,00016	CL0172
TRINITY_DN18004_c1_g6::TRINITY_DN18004_c1_g6_i1::g.93462::m.93462	6	26,4	16,954	97,054	PF00043.24	GST_C	67,9	6,10E-19	CL0497
TRINITY_DN18011_c2_g1::TRINITY_DN18011_c2_g1_i8::g.93702::m.93702	11	45,3	35,388	56,126	PF00294.23	PfkB	263,5	2,30E-78	CL0118

TRINITY_DN18015_c3_g4::TRINITY_DN18015_c3_g4_i1::g.93638::m.93638	9	22,5	57,039	64,859	PF08662.10	eIF2A	255,8	2,50E-76	CL0186
TRINITY_DN18017_c0_g1::TRINITY_DN18017_c0_g1_i4::g.93738::m.93738	2	6,2	44,357	3,1545	PF06741.12	LsmAD	86,2	1,60E-24	No_clan
TRINITY_DN18020_c2_g2::TRINITY_DN18020_c2_g2_i4::g.93764::m.93764	1	6,4	30,18	2,3544	PF13334.5	DUF4094	71,2	6,50E-20	No_clan
TRINITY_DN18021_c3_g2::TRINITY_DN18021_c3_g2_i4::g.93827::m.93827	1	20,7	12,259	2,4598					
TRINITY_DN18024_c1_g1::TRINITY_DN18024_c1_g1_i2::g.93774::m.93774	2	8,1	24,86	12,755	PF13561.5	adh_short_C2	176,5	5,50E-52	CL0063
TRINITY_DN18028_c1_g1::TRINITY_DN18028_c1_g1_i5::g.93929::m.93929	14	26,7	60,227	319,46	PF00254.27	FKBP_C	117,3	2,70E-34	CL0487
TRINITY_DN18029_c5_g1::TRINITY_DN18029_c5_g1_i6::g.93985::m.93985	21	57,9	49,096	153,79	PF00155.20	Aminotran_1_2	315,5	4,60E-94	CL0061
TRINITY_DN18029_c5_g2::TRINITY_DN18029_c5_g2_i4::g.93978::m.93978	10	26,2	63,73	32,1	PF02450.14	LCAT	215,6	1,10E-63	CL0028
TRINITY_DN18037_c1_g1::TRINITY_DN18037_c1_g1_i9::g.94092::m.94092	2	4,3	59,715	3,0092	PF07534.15	TLD	78,8	4,00E-22	No_clan
TRINITY_DN18038_c0_g1::TRINITY_DN18038_c0_g1_i7::g.94082::m.94082	5	36,9	13,705	10,663	PF00338.21	Ribosomal_S10	97,6	3,50E-28	No_clan
TRINITY_DN18040_c0_g1::TRINITY_DN18040_c0_g1_i2::g.94127::m.94127	2	13,4	25,807	3,1169	PF01008.16	IF-2B	194,6	1,80E-57	CL0246
TRINITY_DN18047_c0_g1::TRINITY_DN18047_c0_g1_i1::g.93485::m.93485	6	11,1	73,013	15,3	PF09731.8	Mitofilin	235,9	1,10E-69	No_clan
TRINITY_DN18048_c4_g4::TRINITY_DN18048_c4_g4_i5::g.94249::m.94249	10	25,1	49,039	16,796	PF01412.17	ArfGap	114	3,60E-33	No_clan
TRINITY_DN18049_c1_g1::TRINITY_DN18049_c1_g1_i7::g.94346::m.94346	6	18	49,539	2,101	PF00004.28	AAA	137,7	2,80E-40	CL0023
TRINITY_DN18049_c1_g3::TRINITY_DN18049_c1_g3_i3::g.94352::m.94352	6	20,9	49,618	23,092	PF00004.28	AAA	137,5	3,20E-40	CL0023
TRINITY_DN18053_c4_g1::TRINITY_DN18053_c4_g1_i4::g.94304::m.94304	8	19,2	51,864	14,259	PF10151.8	TMEM214	47,2	1,10E-12	No_clan
TRINITY_DN18055_c0_g1::TRINITY_DN18055_c0_g1_i4::g.94445::m.94445	8	5	242,17	14,352	PF00270.28	DEAD	100,7	7,30E-29	CL0023
TRINITY_DN18055_c0_g3::TRINITY_DN18055_c0_g3_i2::g.94441::m.94441	2	8,7	23,63	3,0216	PF01248.25	Ribosomal_L7Ae	78,3	2,60E-22	CL0101
TRINITY_DN18057_c0_g3::TRINITY_DN18057_c0_g3_i1::g.94357::m.94357	14	37,8	58,834	61,526	PF00118.23	Cpn60_TCP1	508,7	1,40E-152	No_clan
TRINITY_DN18060_c0_g2::TRINITY_DN18060_c0_g2_i3::g.94415::m.94415	2	10,5	24,632	3,3411	PF08718.10	GLTP	110,2	9,60E-32	No_clan
TRINITY_DN18061_c2_g1::TRINITY_DN18061_c2_g1_i8::g.94553::m.94553	6	16,3	43,138	11,33	PF01370.20	Epimerase	23,7	2,70E-05	CL0063

TRINITY_DN18061_c2_g3::TRINITY_DN18061_c2_g3_i1::g.94540::m.94540	4	16,7	16,345	6,043	PF00833.17	Ribosomal_S17e	195,6	1,90E-58	No_clan
TRINITY_DN18061_c2_g5::TRINITY_DN18061_c2_g5_i2::g.94542::m.94542	3	10,3	55,792	13,13	PF12819.6	Malectin_like	212,6	7,70E-63	CL0468
TRINITY_DN18066_c0_g3::TRINITY_DN18066_c0_g3_i5::g.94429::m.94429	2	7,7	20,099	323,31	PF01472.19	PUA	69,2	2,00E-19	CL0178
TRINITY_DN18074_c1_g1::TRINITY_DN18074_c1_g1_i2::g.94688::m.94688	2	2,8	70,467	1,9857	PF07651.15	ANTH	279,3	2,30E-83	CL0009
TRINITY_DN18083_c3_g1::TRINITY_DN18083_c3_g1_i4::g.94853::m.94853	3	12,3	32,914	5,0306	PF00574.22	CLP_protease	173,4	3,90E-51	CL0127
TRINITY_DN18083_c4_g1::TRINITY_DN18083_c4_g1_i1::g.94854::m.94854	7	43	27,905	16,081	PF04774.14	HABP4_PAI-RBP1	104,7	5,00E-30	No_clan
TRINITY_DN18086_c1_g2::TRINITY_DN18086_c1_g2_i3::g.94830::m.94830	3	33,9	12,743	198,65	PF14368.5	LTP_2	62,2	3,50E-17	CL0482
TRINITY_DN18091_c1_g1::TRINITY_DN18091_c1_g1_i6::g.94898::m.94898	2	9,3	24,127	2,5912	PF00795.21	CN_hydrolase	158,4	2,00E-46	No_clan
TRINITY_DN18096_c1_g1::TRINITY_DN18096_c1_g1_i2::g.95119::m.95119	4	6,8	69,087	5,7063	PF08238.11	Sel1	7,5	6,6	CL0020
TRINITY_DN18097_c14_g3::TRINITY_DN18097_c14_g3_i5::g.95141::m.95141	3	11,9	42,714	10,725	PF08545.9	ACP_syn_III	95,3	1,30E-27	CL0046
TRINITY_DN18113_c1_g2::TRINITY_DN18113_c1_g2_i2::g.95380::m.95380	5	16,7	34,469	17,333	PF05116.12	S6PP	324	5,70E-97	CL0137
TRINITY_DN18115_c1_g1::TRINITY_DN18115_c1_g1_i4::g.95413::m.95413	2	17,8	17,203	5,3936	PF01992.15	vATP-synt_AC39	150,1	9,80E-44	No_clan
TRINITY_DN18120_c2_g1::TRINITY_DN18120_c2_g1_i8::g.95450::m.95450	5	57	11,563	24,356	PF00248.20	Aldo_ket_red	45,3	5,80E-12	No_clan
TRINITY_DN18124_c0_g4::TRINITY_DN18124_c0_g4_i1::g.95606::m.95606	7	37,5	31,078	32,644	PF10075.8	CSN8_PSD8_EIF3K	92,5	2,10E-26	CL0123
TRINITY_DN18127_c0_g1::TRINITY_DN18127_c0_g1_i1::g.95817::m.95817	3	4,3	123,55	4,4933	PF02213.15	GYF	39,9	2,40E-10	No_clan
TRINITY_DN18132_c2_g1::TRINITY_DN18132_c2_g1_i3::g.95646::m.95646	3	28,7	13,079	4,8905	PF00085.19	Thioredoxin	70	1,30E-19	CL0172
TRINITY_DN18139_c1_g1::TRINITY_DN18139_c1_g1_i7::g.95745::m.95745	2	12,9	25,456	3,8159	PF16752.4	TBCC_N	101,4	3,70E-29	No_clan
TRINITY_DN18145_c2_g1::TRINITY_DN18145_c2_g1_i9::g.95178::m.95178	13	57,1	28,577	323,31	PF00484.18	Pro_CA	154,9	1,80E-45	No_clan
TRINITY_DN18146_c1_g5::TRINITY_DN18146_c1_g5_i1::g.95204::m.95204	2	21,9	17,176	21,096	PF02466.18	Tim17	50,3	2,30E-13	No_clan
TRINITY_DN18148_c1_g6::TRINITY_DN18148_c1_g6_i2::g.95979::m.95979	1	5,6	20,524	5,4115	PF00149.27	Metallophos	51,4	1,70E-13	CL0163
TRINITY_DN18149_c0_g1::TRINITY_DN18149_c0_g1_i3::g.95908::m.95908	4	18,7	32,205	8,7541	PF00112.22	Peptidase_C1	163,1	9,50E-48	CL0125
TRINITY_DN18151_c0_g1::TRINITY_DN18151_c0_g1_i1::g.95922::m.95922	6	17,7	36,547	14,041	PF00318.19	Ribosomal_S2	49,7	2,50E-13	CL0067

TRINITY_DN18151_c1_g8::TRINITY_DN18151_c1_g8_i1::g.95937::m.95937	2	12,7	18,015	2,2666	PF04969.15	CS	65,5	6,10E-18	CL0190
TRINITY_DN18156_c0_g1::TRINITY_DN18156_c0_g1_i18::g.96138::m.96138	3	9,6	58,296	9,3715	PF09743.8	E3_UFM1_ligase	228,3	1,20E-67	No_clan
TRINITY_DN18157_c0_g1::TRINITY_DN18157_c0_g1_i6::g.96079::m.96079	6	30,7	24,827	105,81	PF00112.22	Peptidase_C1	126,4	1,50E-36	CL0125
TRINITY_DN18164_c1_g1::TRINITY_DN18164_c1_g1_i4::g.96244::m.96244	20	29,6	75,727	248,93	PF00012.19	HSP70	875,5	1,40E-263	CL0108
TRINITY_DN18164_c1_g2::TRINITY_DN18164_c1_g2_i2::g.96243::m.96243	13	63,1	26,532	323,31	PF00012.19	HSP70	389,7	1,70E-116	CL0108
TRINITY_DN18168_c0_g1::TRINITY_DN18168_c0_g1_i2::g.96274::m.96274	1	20,7	12,335	4,3947					
TRINITY_DN18171_c1_g1::TRINITY_DN18171_c1_g1_i5::g.96291::m.96291	6	17,6	55,074	19,575	PF00069.24	Pkinase	253,9	1,50E-75	CL0016
TRINITY_DN18173_c2_g1::TRINITY_DN18173_c2_g1_i8::g.96624::m.96624	16	23,1	108,88	44,233	PF13528.5	Glyco_trans_1_3	28,6	7,70E-07	CL0113
TRINITY_DN18173_c2_g1::TRINITY_DN18173_c2_g1_i9::g.96627::m.96627	15	25,9	95,248	4,2542	PF13528.5	Glyco_trans_1_3	28,5	7,80E-07	CL0113
TRINITY_DN18179_c2_g1::TRINITY_DN18179_c2_g1_i5::g.96397::m.96397	11	30,5	52,704	72,264	PF02136.19	NTF2	109,2	1,70E-31	CL0051
TRINITY_DN18180_c0_g1::TRINITY_DN18180_c0_g1_i6::g.96457::m.96457	2	1,4	141,82	2,7181	PF13639.5	zf-RING_2	29,4	6,70E-07	CL0229
TRINITY_DN18181_c1_g1::TRINITY_DN18181_c1_g1_i2::g.96439::m.96439	9	36,6	29,889	100,94	PF12697.6	Abhydrolase_6	29,9	7,80E-07	CL0028
TRINITY_DN18181_c1_g1::TRINITY_DN18181_c1_g1_i3::g.96440::m.96440	7	24,5	31,061	16,729	PF12697.6	Abhydrolase_6	32,7	1,10E-07	CL0028
TRINITY_DN18182_c1_g1::TRINITY_DN18182_c1_g1_i5::g.96464::m.96464	10	41,9	26,23	41,373	PF07650.16	KH_2	48,7	4,50E-13	CL0007
TRINITY_DN18184_c1_g1::TRINITY_DN18184_c1_g1_i15::g.96527::m.96527	3	28	11,606	2,9269	PF00719.18	Pyrophosphatase	77	1,20E-21	No_clan
TRINITY_DN18185_c0_g2::TRINITY_DN18185_c0_g2_i8::g.96676::m.96676	4	7,9	87,295	6,1521	PF01839.22	FG-GAP	23,2	5,10E-05	CL0186
TRINITY_DN18186_c3_g1::TRINITY_DN18186_c3_g1_i8::g.96539::m.96539	2	2,5	110,82	3,7875	PF08389.11	Xpo1	72,2	4,20E-20	CL0020
TRINITY_DN18188_c2_g1::TRINITY_DN18188_c2_g1_i6::g.95147::m.95147	1	2,1	75,374	1,8834	PF09787.8	Golgin_A5	59,6	3,10E-16	No_clan
TRINITY_DN18192_c1_g2::TRINITY_DN18192_c1_g2_i5::g.96646::m.96646	6	30,5	40,427	186,07	PF00076.21	RRM_1	45,8	3,70E-12	CL0221
TRINITY_DN18196_c4_g4::TRINITY_DN18196_c4_g4_i1::g.96720::m.96720	1	10,5	12,01	1,9281	PF00412.21	LIM	45,2	7,30E-12	CL0167
TRINITY_DN18205_c0_g1::TRINITY_DN18205_c0_g1_i3::g.96958::m.96958	16	51,1	29,742	323,31	PF08241.11	Methyltransf_11	44,4	1,80E-11	CL0063

TRINITY_DN18208_c0_g1::TRINITY_DN18208_c0_g1_i5::g.96946::m.96946	2	8	37,467	3,855	PF08241.11	Methyltransf_11	72,2	3,80E-20	CL0063
TRINITY_DN18211_c0_g1::TRINITY_DN18211_c0_g1_i1::g.96953::m.96953	3	22,4	21,138	5,0204	PF13905.5	Thioredoxin_8	28,5	1,30E-06	CL0172
TRINITY_DN18223_c0_g1::TRINITY_DN18223_c0_g1_i1::g.97248::m.97248	5	7,1	103,78	9,3672	PF03810.18	IBN_N	66,3	1,50E-18	CL0020
TRINITY_DN18226_c4_g1::TRINITY_DN18226_c4_g1_i9::g.97134::m.97134	2	9,2	47,912	7,3139					
TRINITY_DN18227_c0_g1::TRINITY_DN18227_c0_g1_i4::g.97154::m.97154	1	8,2	26,74	3,979	PF02037.26	SAP	39,5	2,90E-10	CL0306
TRINITY_DN18228_c1_g3::TRINITY_DN18228_c1_g3_i10::g.97346::m.97346	3	6,9	63,193	2,8221	PF00270.28	DEAD	92,7	2,00E-26	CL0023
TRINITY_DN18229_c0_g2::TRINITY_DN18229_c0_g2_i1::g.97234::m.97234	3	26,7	15,354	10,568	PF01596.16	Methyltransf_3	202,2	4,90E-60	CL0063
TRINITY_DN18230_c1_g3::TRINITY_DN18230_c1_g3_i4::g.97286::m.97286	1	6	26,634	2,5881	PF03168.12	LEA_2	26,4	7,00E-06	CL0159
TRINITY_DN18231_c0_g2::TRINITY_DN18231_c0_g2_i7::g.97309::m.97309	4	3	213,59	7,4552	PF16418.4	CNOT1_HEAT	113,1	1,10E-32	No_clan
TRINITY_DN18232_c0_g1::TRINITY_DN18232_c0_g1_i6::g.97390::m.97390	12	12,5	136,2	19,503	PF00133.21	tRNA-synt_1	309,2	4,20E-92	CL0039
TRINITY_DN18239_c4_g4::TRINITY_DN18239_c4_g4_i1::g.97381::m.97381	7	28,7	28,492	14,747	PF08079.11	Ribosomal_L30_N	95,2	1,80E-27	No_clan
TRINITY_DN18240_c0_g1::TRINITY_DN18240_c0_g1_i3::g.97435::m.97435	4	15,2	41,028	6,7586	PF02883.19	Alpha_adaptinC2	108,5	2,00E-31	CL0159
TRINITY_DN18242_c1_g1::TRINITY_DN18242_c1_g1_i1::g.97405::m.97405	6	22	45,092	21,596	PF00076.21	RRM_1	54	1,00E-14	CL0221
TRINITY_DN18242_c3_g1::TRINITY_DN18242_c3_g1_i7::g.97423::m.97423	1	11,2	27,017	7,5696					
TRINITY_DN18242_c3_g2::TRINITY_DN18242_c3_g2_i3::g.97426::m.97426	4	29,3	21,446	7,6829	PF00076.21	RRM_1	56,2	2,00E-15	CL0221
TRINITY_DN18246_c0_g1::TRINITY_DN18246_c0_g1_i3::g.96857::m.96857	7	25,6	48,08	17,992	PF00709.20	Adenylsucc_synt	567,5	1,60E-170	CL0023
TRINITY_DN18252_c2_g3::TRINITY_DN18252_c2_g3_i2::g.97577::m.97577	3	8,1	53,632	10,687	PF01370.20	Epimerase	76,8	1,60E-21	CL0063
TRINITY_DN18255_c0_g1::TRINITY_DN18255_c0_g1_i22::g.97730::m.97730	4	16	36,214	9,1683	PF04212.17	MIT	76,6	1,10E-21	No_clan
TRINITY_DN18255_c1_g1::TRINITY_DN18255_c1_g1_i6::g.97743::m.97743	14	11,3	173,76	32,906	PF02736.18	Myosin_N	29,6	4,00E-07	No_clan
TRINITY_DN18258_c0_g1::TRINITY_DN18258_c0_g1_i1::g.97653::m.97653	2	17,4	12,087	2,3992	PF00107.25	ADH_zinc_N	61,9	5,30E-17	CL0063
TRINITY_DN18258_c0_g1::TRINITY_DN18258_c0_g1_i10::g.97660::m.97660	7	28,5	36,928	149,66	PF08240.11	ADH_N	96,9	5,60E-28	CL0296

TRINITY_DN18258_c0_g1::TRINITY_DN18258_c0_g1_i6::g.97657::m.97657	2	32,4	11,988	5,2519	PF08240.11	ADH_N	77,8	4,90E-22	CL0296
TRINITY_DN18266_c2_g1::TRINITY_DN18266_c2_g1_i1::g.97903::m.97903	3	28,4	12,627	5,6789	PF05755.11	REF	136,1	1,20E-39	No_clan
TRINITY_DN18268_c0_g1::TRINITY_DN18268_c0_g1_i8::g.98068::m.98068	5	21,9	41,087	11,064	PF03485.15	Arg_tRNA_synt_N	58,9	5,20E-16	No_clan
TRINITY_DN18272_c2_g1::TRINITY_DN18272_c2_g1_i1::g.97904::m.97904	15	20,9	102,74	42,476	PF02861.19	Clp_N	62,6	2,60E-17	No_clan
TRINITY_DN18272_c3_g3::TRINITY_DN18272_c3_g3_i3::g.97910::m.97910	7	14,2	62,635	19,321	PF01565.22	FAD_binding_4	64,5	7,50E-18	CL0077
TRINITY_DN18275_c0_g4::TRINITY_DN18275_c0_g4_i1::g.98310::m.98310	3	2,3	180,58	4,8617	PF02383.17	Syja_N	141,9	2,60E-41	CL0031
TRINITY_DN18281_c0_g1::TRINITY_DN18281_c0_g1_i4::g.98025::m.98025	2	1,4	134,3	1,9416	PF04563.14	RNA_pol_Rpb2_1	84,8	5,00E-24	No_clan
TRINITY_DN18283_c0_g1::TRINITY_DN18283_c0_g1_i12::g.98055::m.98055	1	5,2	21,908	2,0601	PF01963.16	TraB	73,2	2,80E-20	CL0572
TRINITY_DN18287_c2_g1::TRINITY_DN18287_c2_g1_i6::g.98094::m.98094	2	8,7	44,613	4,2216	PF03951.18	Gln-synt_N	39,5	3,30E-10	No_clan
TRINITY_DN18287_c3_g1::TRINITY_DN18287_c3_g1_i2::g.98102::m.98102	5	20,7	32,827	36,601	PF00383.22	dCMP_cyt_deam_1	35,4	7,10E-09	CL0109
TRINITY_DN18293_c3_g1::TRINITY_DN18293_c3_g1_i3::g.98277::m.98277	2	25,2	11,867	23,801					
TRINITY_DN18294_c2_g1::TRINITY_DN18294_c2_g1_i3::g.98438::m.98438	3	4,5	108,43	3,4107	PF13202.5	EF-hand_5	16,9	0,003	CL0220
TRINITY_DN18296_c0_g1::TRINITY_DN18296_c0_g1_i5::g.98309::m.98309	4	17,3	27,565	323,31					
TRINITY_DN18300_c1_g1::TRINITY_DN18300_c1_g1_i6::g.96808::m.96808	4	31,3	18,071	7,4312	PF14852.5	Fis1_TPR_N	44,6	7,60E-12	CL0020
TRINITY_DN18301_c0_g2::TRINITY_DN18301_c0_g2_i7::g.97543::m.97543	2	7,7	38,024	5,0208	PF04548.15	AIG1	274,3	4,80E-82	CL0023
TRINITY_DN18302_c1_g2::TRINITY_DN18302_c1_g2_i2::g.98507::m.98507	19	62,7	30,231	242,06	PF08240.11	ADH_N	36,1	4,50E-09	CL0296
TRINITY_DN18302_c1_g2::TRINITY_DN18302_c1_g2_i4::g.98509::m.98509	19	62,7	30,217	323,31	PF08240.11	ADH_N	36,1	4,50E-09	CL0296
TRINITY_DN18306_c2_g1::TRINITY_DN18306_c2_g1_i5::g.98735::m.98735	14	55,6	33,958	323,31	PF00180.19	Iso_dh	222,6	7,10E-66	CL0270
TRINITY_DN18306_c2_g1::TRINITY_DN18306_c2_g1_i6::g.98737::m.98737	6	52,5	11,634	323,31	PF00180.19	Iso_dh	66,1	2,80E-18	CL0270
TRINITY_DN18307_c0_g1::TRINITY_DN18307_c0_g1_i4::g.98617::m.98617	2	7,8	44,589	3,7615	PF04810.14	zf-Sec23_Sec24	64,4	6,70E-18	No_clan
TRINITY_DN18311_c1_g1::TRINITY_DN18311_c1_g1_i2::g.98629::m.98629	1	8,5	17,838	2,1022	PF00406.21	ADK	166,9	2,90E-49	CL0023
TRINITY_DN18313_c3_g2::TRINITY_DN18313_c3_g2_i2::g.98848::m.98848	8	24,9	50,345	19,379	PF01546.27	Peptidase_M20	127,6	4,80E-37	CL0035

TRINITY_DN18316_c4_g8::TRINITY_DN18316_c4_g8_i2::g.98671::m.98671	7	31,9	25,118	10,396	PF00071.21	Ras	207,3	9,00E-62	CL0023
TRINITY_DN18320_c3_g1::TRINITY_DN18320_c3_g1_i1::g.98804::m.98804	2	8	42,828	6,5665	PF00112.22	Peptidase_C1	216,9	3,20E-64	CL0125
TRINITY_DN18320_c3_g3::TRINITY_DN18320_c3_g3_i3::g.98813::m.98813	3	14	26,131	5,8038	PF00076.21	RRM_1	53,2	1,80E-14	CL0221
TRINITY_DN18321_c2_g1::TRINITY_DN18321_c2_g1_i1::g.98839::m.98839	3	23,6	17,863	46,517	PF00635.25	Motile_Sperm	103,8	4,00E-30	CL0556
TRINITY_DN18324_c2_g1::TRINITY_DN18324_c2_g1_i6::g.99024::m.99024	6	18,6	51,477	9,8728	PF01237.17	Oxysterol_BP	337,5	7,90E-101	No_clan
TRINITY_DN18328_c0_g1::TRINITY_DN18328_c0_g1_i9::g.98876::m.98876	12	68,2	24,292	79,325	PF00484.18	Pro_CA	124,9	3,00E-36	No_clan
TRINITY_DN18331_c2_g5::TRINITY_DN18331_c2_g5_i1::g.98900::m.98900	8	23,8	51,194	18,197	PF09440.9	eIF3_N	165,7	6,50E-49	No_clan
TRINITY_DN18333_c2_g6::TRINITY_DN18333_c2_g6_i1::g.98947::m.98947	5	45	11,487	192,28	PF04043.14	PMEI	54,1	2,00E-14	No_clan
TRINITY_DN18341_c1_g1::TRINITY_DN18341_c1_g1_i3::g.99097::m.99097	3	40,4	11,61	323,31	PF13833.5	EF-hand_8	55,4	3,50E-15	CL0220
TRINITY_DN18349_c3_g1::TRINITY_DN18349_c3_g1_i4::g.99210::m.99210	3	11	39,176	3,4076	PF00270.28	DEAD	162,7	6,50E-48	CL0023
TRINITY_DN18349_c4_g1::TRINITY_DN18349_c4_g1_i3::g.99227::m.99227	2	6,1	53,033	2,5593	PF04576.14	Zein-binding	115,5	9,40E-34	No_clan
TRINITY_DN18350_c0_g2::TRINITY_DN18350_c0_g2_i2::g.99155::m.99155	3	28,6	16,946	7,4017					
TRINITY_DN18350_c0_g4::TRINITY_DN18350_c0_g4_i3::g.99164::m.99164	3	11,3	44,133	11,236	PF02469.21	Fasciclin	23	6,80E-05	No_clan
TRINITY_DN18355_c0_g1::TRINITY_DN18355_c0_g1_i6::g.99167::m.99167	3	23,4	19,274	4,3397	PF00536.29	SAM_1	60,2	1,90E-16	CL0003
TRINITY_DN18356_c1_g1::TRINITY_DN18356_c1_g1_i9::g.99317::m.99317	4	10,3	51,633	4,5992					
TRINITY_DN18360_c0_g2::TRINITY_DN18360_c0_g2_i3::g.99190::m.99190	3	11,9	40,864	15,045	PF00012.19	HSP70	535,3	1,40E-160	CL0108
TRINITY_DN18360_c0_g4::TRINITY_DN18360_c0_g4_i2::g.99196::m.99196	10	42,9	32,081	229,33	PF00012.19	HSP70	305,6	5,10E-91	CL0108
TRINITY_DN18360_c0_g5::TRINITY_DN18360_c0_g5_i1::g.99194::m.99194	7	37,7	23,944	19,913	PF00012.19	HSP70	300,5	1,70E-89	CL0108
TRINITY_DN18360_c0_g7::TRINITY_DN18360_c0_g7_i2::g.99197::m.99197	18	58,9	39,367	323,31	PF00012.19	HSP70	540	5,20E-162	CL0108
TRINITY_DN18365_c0_g2::TRINITY_DN18365_c0_g2_i2::g.99254::m.99254	2	6,1	46,182	2,8639	PF00076.21	RRM_1	64,1	7,30E-18	CL0221
TRINITY_DN18366_c0_g2::TRINITY_DN18366_c0_g2_i3::g.99417::m.99417	2	12,6	17,784	3,9395	PF16205.4	Ribosomal_S17_N	110,2	4,30E-32	No_clan

TRINITY_DN18367_c3_g7::TRINITY_DN18367_c3_g7_i1::g.99480::m.99480	1	8,5	20,86	2,5309					
TRINITY_DN18371_c0_g1::TRINITY_DN18371_c0_g1_i2::g.99819::m.99819	2	8,5	23,446	2,2703	PF06244.11	Ccdc124	47,9	1,80E-12	CL0114
TRINITY_DN18372_c2_g2::TRINITY_DN18372_c2_g2_i3::g.99514::m.99514	2	7,2	42,281	4,3357	PF00782.19	DSPc	24,3	2,10E-05	CL0031
TRINITY_DN18372_c2_g6::TRINITY_DN18372_c2_g6_i1::g.99517::m.99517	2	18,5	24,994	9,2177					
TRINITY_DN18372_c2_g8::TRINITY_DN18372_c2_g8_i1::g.99519::m.99519	2	31,5	17,034	7,3359					
TRINITY_DN18378_c3_g4::TRINITY_DN18378_c3_g4_i1::g.99575::m.99575	3	23,8	22,46	21,148	PF00173.27	Cyt-b5	52	5,50E-14	No_clan
TRINITY_DN18383_c2_g3::TRINITY_DN18383_c2_g3_i1::g.99654::m.99654	11	29,3	56,907	109,49	PF13432.5	TPR_16	15,5	0,019	CL0020
TRINITY_DN18388_c1_g1::TRINITY_DN18388_c1_g1_i7::g.99758::m.99758	5	61,2	14,023	15,001					
TRINITY_DN18395_c1_g2::TRINITY_DN18395_c1_g2_i5::g.99070::m.99070	5	16,9	50,034	34,581	PF00240.22	ubiquitin	69,4	1,50E-19	CL0072
TRINITY_DN18395_c1_g2::TRINITY_DN18395_c1_g2_i6::g.99075::m.99075	4	21,6	24,931	3,5226	PF00627.30	UBA	40,8	1,40E-10	CL0214
TRINITY_DN18396_c2_g1::TRINITY_DN18396_c2_g1_i1::g.99882::m.99882	1	18,1	11,644	6,6731	PF00083.23	Sugar_tr	47,6	1,00E-12	CL0015
TRINITY_DN18397_c1_g1::TRINITY_DN18397_c1_g1_i2::g.99905::m.99905	4	4,7	110,56	6,1614	PF09324.9	DUF1981	109,8	4,20E-32	No_clan
TRINITY_DN18404_c1_g1::TRINITY_DN18404_c1_g1_i7::g.100040::m.100040	5	11,8	52,666	7,766	PF00479.21	G6PD_N	146	1,60E-42	CL0063
TRINITY_DN18406_c4_g1::TRINITY_DN18406_c4_g1_i5::g.99964::m.99964	8	14,4	92,747	23,299	PF00350.22	Dynamin_N	185,5	7,20E-55	CL0023
TRINITY_DN18412_c2_g2::TRINITY_DN18412_c2_g2_i2::g.100143::m.100143	5	11,6	52,188	9,4095	PF10559.8	Plug_translocon	65,7	2,20E-18	No_clan
TRINITY_DN18418_c0_g3::TRINITY_DN18418_c0_g3_i2::g.100138::m.100138	3	12,1	34,173	6,0781	PF07063.12	DUF1338	269,8	2,80E-80	No_clan
TRINITY_DN18419_c1_g1::TRINITY_DN18419_c1_g1_i5::g.100150::m.100150	13	15	130,43	20,234	PF02786.16	CPSase_L_D2	240,9	8,70E-72	CL0179
TRINITY_DN18422_c0_g3::TRINITY_DN18422_c0_g3_i1::g.100190::m.100190	16	45,2	53,314	155,36	PF03446.14	NAD_binding_2	162,2	1,00E-47	CL0063
TRINITY_DN18427_c0_g1::TRINITY_DN18427_c0_g1_i8::g.100422::m.100422	5	50	15,036	191,61	PF00173.27	Cyt-b5	94,3	3,30E-27	No_clan
TRINITY_DN18427_c1_g2::TRINITY_DN18427_c1_g2_i5::g.100438::m.100438	7	45,1	25,626	52,74	PF10584.8	Proteasome_A_N	34,6	1,00E-08	CL0052
TRINITY_DN18432_c0_g1::TRINITY_DN18432_c0_g1_i9::g.99987::m.99987	8	2,2	477,91	10,391	PF12624.6	Chorein_N	112,3	1,20E-32	No_clan
TRINITY_DN18433_c1_g3::TRINITY_DN18433_c1_g3_i2::g.100387::m.100387	10	34,1	33,442	15,406	PF12353.7	eIF3g	120,2	6,40E-35	CL0511

TRINITY_DN18433_c1_g4::TRINITY_DN18433_c1_g4_i1::g.100393::m.100393	7	30,1	31,971	3,1992	PF12353.7	eIF3g	117,6	4,10E-34	CL0511
TRINITY_DN18434_c0_g1::TRINITY_DN18434_c0_g1_i17::g.100395::m.100395	2	17,4	18,485	44,551	PF08324.10	PUL	112,6	1,70E-32	No_clan
TRINITY_DN18436_c0_g2::TRINITY_DN18436_c0_g2_i4::g.100110::m.100110	3	7,6	53,639	4,9705	PF10191.8	COG7	504,9	3,60E-151	CL0294
TRINITY_DN18436_c0_g2::TRINITY_DN18436_c0_g2_i2::g.100108::m.100108	2	6,4	38,29	3,316	PF10191.8	COG7	400,6	1,30E-119	CL0294
TRINITY_DN18437_c1_g1::TRINITY_DN18437_c1_g1_i4::g.100574::m.100574	1	2,8	63,687	3,1577	PF08799.10	PRP4	43,7	1,30E-11	No_clan
TRINITY_DN18437_c2_g2::TRINITY_DN18437_c2_g2_i5::g.100589::m.100589	3	1,9	172,72	4,9863	PF16213.4	DCB	93,6	9,80E-27	No_clan
TRINITY_DN18444_c3_g2::TRINITY_DN18444_c3_g2_i4::g.100535::m.100535	8	17,4	73,867	13,335	PF12569.7	NARP1	599,2	7,10E-180	CL0020
TRINITY_DN18446_c0_g1::TRINITY_DN18446_c0_g1_i3::g.100648::m.100648	2	12,1	22,343	8,4839					
TRINITY_DN18450_c3_g3::TRINITY_DN18450_c3_g3_i7::g.100614::m.100614	3	6	97,454	6,8252					
TRINITY_DN18452_c0_g2::TRINITY_DN18452_c0_g2_i5::g.100623::m.100623	2	18,2	13,771	9,3588	PF02733.16	Dak1	170,8	2,90E-50	CL0245
TRINITY_DN18452_c0_g3::TRINITY_DN18452_c0_g3_i8::g.100622::m.100622	1	3,5	24,231	2,684	PF02733.16	Dak1	123,7	6,30E-36	CL0245
TRINITY_DN18459_c3_g1::TRINITY_DN18459_c3_g1_i2::g.100697::m.100697	2	2,5	112,37	4,3567	PF00521.19	DNA_topoisoIV	499,3	8,50E-150	No_clan
TRINITY_DN18466_c3_g1::TRINITY_DN18466_c3_g1_i12::g.101047::m.101047	1	10,9	13,398	10,733					
TRINITY_DN18466_c3_g1::TRINITY_DN18466_c3_g1_i19::g.101050::m.101050	2	31,4	10,42	38,215					
TRINITY_DN18472_c4_g2::TRINITY_DN18472_c4_g2_i2::g.100983::m.100983	3	14	34,299	7,3322	PF00069.24	Pkinase	89,7	1,90E-25	CL0016
TRINITY_DN18476_c0_g1::TRINITY_DN18476_c0_g1_i4::g.100953::m.100953	2	25,4	12,95	223,24	PF04043.14	PMEI	28	2,20E-06	No_clan
TRINITY_DN18478_c2_g2::TRINITY_DN18478_c2_g2_i3::g.101133::m.101133	3	5	66,952	5,1787	PF00501.27	AMP-binding	336,2	2,00E-100	CL0378
TRINITY_DN18479_c0_g3::TRINITY_DN18479_c0_g3_i1::g.100965::m.100965	6	32	21,922	2,1944	PF00071.21	Ras	192,6	3,10E-57	CL0023
TRINITY_DN18479_c0_g5::TRINITY_DN18479_c0_g5_i1::g.100968::m.100968	5	30,9	19,672	2,6236	PF00071.21	Ras	165	9,50E-49	CL0023
TRINITY_DN18481_c3_g4::TRINITY_DN18481_c3_g4_i2::g.101020::m.101020	6	13,6	73,238	13,343	PF03639.12	Glyco_hydro_81	567,9	3,50E-170	No_clan

TRINITY_DN18482_c1_g1::TRINITY_DN18482_c1_g1_i7::g.100962::m.100962	1	11,9	21,491	2,4956	PF00542.18	Ribosomal_L12	81	5,40E-23	No_clan
TRINITY_DN18489_c2_g1::TRINITY_DN18489_c2_g1_i22::g.101262::m.101262	6	11,4	76,875	94,187	PF00258.24	Flavodoxin_1	120,7	4,90E-35	CL0042
TRINITY_DN18489_c2_g2::TRINITY_DN18489_c2_g2_i5::g.101255::m.101255	10	66,4	16,579	204,3	PF00179.25	UQ_con	52,1	4,90E-14	CL0208
TRINITY_DN18490_c1_g1::TRINITY_DN18490_c1_g1_i2::g.101177::m.101177	3	6,9	47,509	6,4887	PF00349.20	Hexokinase_1	199	7,40E-59	CL0108
TRINITY_DN18492_c0_g1::TRINITY_DN18492_c0_g1_i14::g.101403::m.101403	1	5,9	22,772	2,0285	PF13499.5	EF-hand_7	42,2	7,70E-11	CL0220
TRINITY_DN18494_c1_g1::TRINITY_DN18494_c1_g1_i7::g.101464::m.101464	2	12,7	28,058	6,8491	PF13561.5	adh_short_C2	204,8	1,30E-60	CL0063
TRINITY_DN18496_c3_g1::TRINITY_DN18496_c3_g1_i9::g.99949::m.99949	5	7,8	93,742	9,7382	PF05701.10	WEMBL	849,1	1,50E-255	No_clan
TRINITY_DN18497_c0_g1::TRINITY_DN18497_c0_g1_i7::g.101435::m.101435	2	17,9	20,013	3,5887	PF01174.18	SNO	24,4	2,10E-05	CL0014
TRINITY_DN18498_c3_g4::TRINITY_DN18498_c3_g4_i4::g.101572::m.101572	4	25,2	16,128	6,8228	PF06212.11	GRIM-19	142,9	5,00E-42	No_clan
TRINITY_DN18503_c1_g1::TRINITY_DN18503_c1_g1_i3::g.101658::m.101658	4	21,6	30,415	6,512	PF06026.13	Rib_5-P_isom_A	208,2	5,80E-62	CL0246
TRINITY_DN18504_c0_g1::TRINITY_DN18504_c0_g1_i8::g.101692::m.101692	3	5,7	73,53	3,7281	PF01841.18	Transglut_core	42,1	8,90E-11	CL0125
TRINITY_DN18518_c1_g1::TRINITY_DN18518_c1_g1_i12::g.103139::m.103139	2	4,4	71,913	3,2593	PF16923.4	Glyco_hydro_63N	142,2	2,40E-41	No_clan
TRINITY_DN18521_c6_g4::TRINITY_DN18521_c6_g4_i1::g.101901::m.101901	2	16,5	17,863	6,1295	PF02672.14	CP12	88	4,80E-25	No_clan
TRINITY_DN18521_c6_g6::TRINITY_DN18521_c6_g6_i1::g.101903::m.101903	4	32,5	16,687	32,056	PF00141.22	peroxidase	147,9	3,30E-43	CL0617
TRINITY_DN18521_c6_g6::TRINITY_DN18521_c6_g6_i4::g.101904::m.101904	4	28,5	15,146	-2	PF00141.22	peroxidase	120,4	8,60E-35	CL0617
TRINITY_DN18526_c1_g2::TRINITY_DN18526_c1_g2_i7::g.101942::m.101942	15	34,7	67,476	136,69	PF01321.17	Creatinase_N	57,4	2,20E-15	CL0356
TRINITY_DN18527_c2_g1::TRINITY_DN18527_c2_g1_i1::g.101980::m.101980	1	15,8	12,771	3,0869	PF00201.17	UDPGT	28,9	4,50E-07	CL0113
TRINITY_DN18531_c0_g1::TRINITY_DN18531_c0_g1_i4::g.102214::m.102214	35	48,9	93,216	323,31	PF01433.19	Peptidase_M1	181,7	1,40E-53	CL0126
TRINITY_DN18531_c0_g1::TRINITY_DN18531_c0_g1_i9::g.102220::m.102220	5	56	12,849	1,9151	PF17432.1	DUF3458_C	178,1	2,60E-52	CL0020
TRINITY_DN18532_c1_g1::TRINITY_DN18532_c1_g1_i2::g.102269::m.102269	6	9,6	101,8	18,624	PF12329.7	TMF_DNA_bd	52,9	2,60E-14	No_clan
TRINITY_DN18543_c1_g3::TRINITY_DN18543_c1_g3_i1::g.101857::m.101857	9	16,4	96,972	25,601	PF02148.18	zf-UBP	54,4	1,10E-14	CL0229

TRINITY_DN18544_c2_g2::TRINITY_DN18544_c2_g2_i1::g.102351::m.102351	1	3	76,121	2,3627	PF01434.17	Peptidase_M41	270,8	7,10E-81	CL0126
TRINITY_DN18545_c0_g2::TRINITY_DN18545_c0_g2_i6::g.102386::m.102386	11	26,1	71,143	63,379	PF00890.23	FAD_binding_2	413,5	9,90E-124	CL0063
TRINITY_DN18548_c0_g1::TRINITY_DN18548_c0_g1_i3::g.102416::m.102416	9	40,7	25,271	142,3	PF00736.18	EF1_GNE	111,4	1,60E-32	No_clan
TRINITY_DN18548_c0_g1::TRINITY_DN18548_c0_g1_i8::g.102421::m.102421	9	57,8	22,975	323,31	PF00736.18	EF1_GNE	97,5	3,50E-28	No_clan
TRINITY_DN18548_c0_g1::TRINITY_DN18548_c0_g1_i9::g.102424::m.102424	7	36,4	24,082	-2	PF00736.18	EF1_GNE	40	3,20E-10	No_clan
TRINITY_DN18551_c0_g2::TRINITY_DN18551_c0_g2_i5::g.102562::m.102562	6	7,7	75,896	19,907	PF03030.15	H_PPase	803	2,20E-241	No_clan
TRINITY_DN18561_c0_g1::TRINITY_DN18561_c0_g1_i3::g.102624::m.102624	4	3	184,66	6,1494	PF02213.15	GYF	36,4	3,00E-09	No_clan
TRINITY_DN18566_c1_g3::TRINITY_DN18566_c1_g3_i2::g.102668::m.102668	4	20	20,263	11,782	PF04733.13	Coatomer_E	298,9	3,70E-89	CL0020
TRINITY_DN18568_c1_g1::TRINITY_DN18568_c1_g1_i19::g.102809::m.102809	8	7,6	127,13	14,36	PF00133.21	tRNA-synt_1	666,7	2,40E-200	CL0039
TRINITY_DN18576_c1_g1::TRINITY_DN18576_c1_g1_i10::g.101619::m.101619	13	30	65,538	49,935	PF07992.13	Pyr_redox_2	196,5	5,10E-58	CL0063
TRINITY_DN18579_c2_g2::TRINITY_DN18579_c2_g2_i4::g.102900::m.102900	3	17,3	30,205	6,545	PF00620.26	RhoGAP	80,8	8,40E-23	CL0409
TRINITY_DN18581_c2_g1::TRINITY_DN18581_c2_g1_i1::g.102861::m.102861	5	33,7	22,682	27,285	PF00450.21	Peptidase_S10	150,6	8,10E-44	CL0028
TRINITY_DN18581_c2_g2::TRINITY_DN18581_c2_g2_i8::g.102871::m.102871	4	36,8	13,927	10,744	PF00450.21	Peptidase_S10	128,2	5,00E-37	CL0028
TRINITY_DN18581_c2_g2::TRINITY_DN18581_c2_g2_i16::g.102885::m.102885	8	49,3	16,532	203,68	PF00450.21	Peptidase_S10	67,6	1,20E-18	CL0028
TRINITY_DN18584_c1_g5::TRINITY_DN18584_c1_g5_i6::g.103010::m.103010	6	26,3	27,016	145,71	PF01657.16	Stress-antifung	75,1	4,90E-21	No_clan
TRINITY_DN18595_c0_g1::TRINITY_DN18595_c0_g1_i7::g.103121::m.103121	1	1,2	127,16	2,1844	PF01602.19	Adaptin_N	358,8	4,20E-107	CL0020
TRINITY_DN18601_c0_g1::TRINITY_DN18601_c0_g1_i1::g.101595::m.101595	3	16,1	18,781	2,722	PF00795.21	CN_hydrolase	35,2	7,40E-09	No_clan
TRINITY_DN18601_c0_g1::TRINITY_DN18601_c0_g1_i6::g.101598::m.101598	5	28,4	24,393	46,395	PF00795.21	CN_hydrolase	156,6	7,00E-46	No_clan
TRINITY_DN18605_c15_g2::TRINITY_DN18605_c15_g2_i1::g.103707::m.103707	3	18,9	16,488	5,8607	PF07731.13	Cu-oxidase_2	84,1	6,60E-24	CL0026
TRINITY_DN18610_c1_g2::TRINITY_DN18610_c1_g2_i3::g.103387::m.103387	10	12,7	105,55	38,085	PF13802.5	Gal_mutarotas_2	67	1,30E-18	CL0103

TRINITY_DN18611_c0_g1::TRINITY_DN18611_c0_g1_i4::g.103412::m.103412	5	10,5	66,624	6,8668	PF00005.26	ABC_tran	86,1	2,80E-24	CL0023
TRINITY_DN18612_c0_g3::TRINITY_DN18612_c0_g3_i1::g.103400::m.103400	3	16,3	25,35	26,06	PF00076.21	RRM_1	60,9	7,30E-17	CL0221
TRINITY_DN18615_c1_g3::TRINITY_DN18615_c1_g3_i2::g.103395::m.103395	2	17,1	11,419	5,9541	PF01738.17	DLH	56,9	2,00E-15	CL0028
TRINITY_DN18618_c2_g1::TRINITY_DN18618_c2_g1_i14::g.103865::m.103865	16	20,3	121	40,819	PF00082.21	Peptidase_S8	270,6	1,40E-80	No_clan
TRINITY_DN18618_c2_g3::TRINITY_DN18618_c2_g3_i2::g.103853::m.103853	4	25,2	24,174	5,6989					
TRINITY_DN18619_c0_g2::TRINITY_DN18619_c0_g2_i2::g.103437::m.103437	4	23	20,856	11,856	PF17135.3	Ribosomal_L18	314,8	1,30E-94	CL0588
TRINITY_DN18628_c2_g1::TRINITY_DN18628_c2_g1_i28::g.103627::m.103627	1	3,7	47,882	1,9738	PF00662.19	Proton_antipo_N	47,8	1,00E-12	No_clan
TRINITY_DN18631_c1_g1::TRINITY_DN18631_c1_g1_i3::g.103586::m.103586	5	20,4	46,053	16,959	PF08263.11	LRRNT_2	24,3	2,70E-05	No_clan
TRINITY_DN18631_c1_g1::TRINITY_DN18631_c1_g1_i1::g.103584::m.103584	1	5,8	29,319	3,0442	PF03878.14	YIF1	197,5	2,20E-58	CL0112
TRINITY_DN18634_c2_g1::TRINITY_DN18634_c2_g1_i4::g.104214::m.104214	8	13,4	84,519	43,355	PF00082.21	Peptidase_S8	164,8	2,40E-48	No_clan
TRINITY_DN18637_c1_g1::TRINITY_DN18637_c1_g1_i7::g.103721::m.103721	2	4,5	54,295	3,6895	PF13499.5	EF-hand_7	72,9	2,00E-20	CL0220
TRINITY_DN18639_c0_g2::TRINITY_DN18639_c0_g2_i1::g.103472::m.103472	2	18,1	17,068	6,0939					
TRINITY_DN18640_c0_g2::TRINITY_DN18640_c0_g2_i8::g.103688::m.103688	5	39,5	17,993	51,912	PF00293.27	NUDIX	95,3	2,60E-27	CL0261
TRINITY_DN18641_c0_g1::TRINITY_DN18641_c0_g1_i1::g.103822::m.103822	2	19,8	11,302	7,487	PF17181.3	EPF	53,6	1,50E-14	No_clan
TRINITY_DN18647_c1_g1::TRINITY_DN18647_c1_g1_i1::g.103820::m.103820	2	7,9	33,495	2,8473	PF00574.22	CLP_protease	222,2	4,10E-66	CL0127
TRINITY_DN18652_c1_g2::TRINITY_DN18652_c1_g2_i5::g.104071::m.104071	1	5,9	20,376	2,3924	PF08059.12	SEP	35,2	1,30E-08	No_clan
TRINITY_DN18652_c2_g1::TRINITY_DN18652_c2_g1_i2::g.104075::m.104075	2	5,5	76,436	5,5614	PF01532.19	Glyco_hydro_47	523,4	4,90E-157	CL0059
TRINITY_DN18657_c1_g1::TRINITY_DN18657_c1_g1_i4::g.104087::m.104087	2	9,8	25,431	3,1927					
TRINITY_DN18657_c3_g2::TRINITY_DN18657_c3_g2_i5::g.104104::m.104104	1	11,3	15,527	2,3071	PF02686.14	Glu-tRNAGln	43,9	2,10E-11	No_clan
TRINITY_DN18658_c0_g1::TRINITY_DN18658_c0_g1_i8::g.104114::m.104114	4	16,4	36,28	5,3232	PF00149.27	Metallophos	48,8	1,10E-12	CL0163
TRINITY_DN18658_c1_g1::TRINITY_DN18658_c1_g1_i9::g.104122::m.104122	23	69,5	42,999	323,31	PF07992.13	Pyr_redox_2	169,4	9,50E-50	CL0063

TRINITY_DN18663_c1_g1::TRINITY_DN18663_c1_g1_i1::g.104197::m.104197	4	27	19,232	18,601	PF04043.14	PMEI	80,6	1,40E-22	No_clan
TRINITY_DN18666_c0_g1::TRINITY_DN18666_c0_g1_i7::g.104181::m.104181	4	25,9	18,925	5,2303	PF16363.4	GDP_Man_Dehyd	76	3,20E-21	CL0063
TRINITY_DN18667_c1_g2::TRINITY_DN18667_c1_g2_i6::g.104311::m.104311	5	18,2	33,726	13,362	PF13432.5	TPR_16	24,3	3,40E-05	CL0020
TRINITY_DN18669_c1_g1::TRINITY_DN18669_c1_g1_i3::g.104346::m.104346	4	26,8	31,571	9,1895	PF09439.9	SRPRB	121,1	3,10E-35	CL0023
TRINITY_DN18673_c1_g1::TRINITY_DN18673_c1_g1_i5::g.104369::m.104369	2	14,9	19,741	10,418					
TRINITY_DN18674_c2_g2::TRINITY_DN18674_c2_g2_i1::g.104393::m.104393	2	9,3	38,071	6,2892					
TRINITY_DN18681_c1_g1::TRINITY_DN18681_c1_g1_i1::g.104540::m.104540	4	28,7	27,245	27,983	PF03358.14	FMN_red	42,4	5,30E-11	CL0042
TRINITY_DN18686_c0_g1::TRINITY_DN18686_c0_g1_i9::g.104732::m.104732	16	33,3	73,878	323,31	PF02727.15	Cu_amine_oxidN2	69,3	2,40E-19	CL0047
TRINITY_DN18687_c0_g1::TRINITY_DN18687_c0_g1_i17::g.103218::m.103218	2	5,3	55,254	2,6307	PF04097.13	Nic96	160,7	4,60E-47	No_clan
TRINITY_DN18690_c2_g2::TRINITY_DN18690_c2_g2_i1::g.104786::m.104786	2	4,2	52,938	2,6008	PF05637.11	Glyco_transf_34	247,8	1,10E-73	CL0110
TRINITY_DN18694_c1_g1::TRINITY_DN18694_c1_g1_i5::g.104667::m.104667	1	7	20,47	2,0854	PF13561.5	adh_short_C2	27,1	2,50E-06	CL0063
TRINITY_DN18697_c0_g2::TRINITY_DN18697_c0_g2_i2::g.103311::m.103311	6	15,4	62,636	8,7045	PF08156.12	NOP5NT	71,4	5,40E-20	No_clan
TRINITY_DN18701_c4_g10::TRINITY_DN18701_c4_g10_i2::g.103928::m.103928	5	20,9	41,132	7,589	PF14369.5	zinc_ribbon_9	50,8	1,40E-13	CL0167
TRINITY_DN18704_c0_g1::TRINITY_DN18704_c0_g1_i1::g.104889::m.104889	5	12,5	68,376	19,222	PF00270.28	DEAD	162,6	6,80E-48	CL0023
TRINITY_DN18707_c1_g1::TRINITY_DN18707_c1_g1_i8::g.104943::m.104943	1	5	24,517	2,0609	PF05529.11	Bap31	40,7	1,80E-10	No_clan
TRINITY_DN18707_c2_g1::TRINITY_DN18707_c2_g1_i4::g.104948::m.104948	14	15,2	132,91	37,357	PF13620.5	CarboxypepD_reg	36,2	5,20E-09	CL0287
TRINITY_DN18713_c3_g1::TRINITY_DN18713_c3_g1_i2::g.105054::m.105054	6	40	18,937	5,464	PF01965.23	DJ-1_PfpI	127,8	3,20E-37	CL0014
TRINITY_DN18713_c3_g1::TRINITY_DN18713_c3_g1_i8::g.105061::m.105061	14	40,7	45,921	306,29	PF01965.23	DJ-1_PfpI	143,5	4,60E-42	CL0014
TRINITY_DN18714_c0_g3::TRINITY_DN18714_c0_g3_i1::g.105033::m.105033	2	18,5	16,647	3,1392					
TRINITY_DN18718_c3_g5::TRINITY_DN18718_c3_g5_i3::g.105071::m.105071	2	14,8	15,496	2,8513	PF08523.9	MBF1	86,1	1,50E-24	No_clan
TRINITY_DN18726_c1_g1::TRINITY_DN18726_c1_g1_i9::g.105485::m.105485	8	9,6	176,46	20,074					
TRINITY_DN18727_c2_g1::TRINITY_DN18727_c2_g1_i8::g.105290::m.105290	2	12,1	34,422	4,4723	PF07059.11	DUF1336	218	1,50E-64	No_clan

TRINITY_DN18731_c0_g5::TRINITY_DN18731_c0_g5_i1::g.105388::m.105388	2	14,9	27,184	5,1038	PF01652.17	IF4E	179,4	4,00E-53	CL0625
TRINITY_DN18733_c1_g1::TRINITY_DN18733_c1_g1_i16::g.105945::m.105945	4	32,1	23,347	10,642					
TRINITY_DN18733_c1_g5::TRINITY_DN18733_c1_g5_i2::g.105940::m.105940	1	2	69,572	2,1201	PF05277.11	DUF726	333,4	1,20E-99	CL0028
TRINITY_DN18736_c0_g1::TRINITY_DN18736_c0_g1_i7::g.105711::m.105711	3	3,6	118,94	4,2082	PF04048.13	Sec8_exocyst	125,3	1,50E-36	CL0295
TRINITY_DN18739_c0_g2::TRINITY_DN18739_c0_g2_i10::g.105638::m.105638	7	9,4	102,15	12,185	PF01399.26	PCI	72,5	3,10E-20	CL0123
TRINITY_DN18739_c0_g3::TRINITY_DN18739_c0_g3_i2::g.105640::m.105640	4	9,8	60,161	5,9484	PF01399.26	PCI	80,1	1,40E-22	CL0123
TRINITY_DN18741_c1_g1::TRINITY_DN18741_c1_g1_i9::g.105752::m.105752	3	13,5	34,794	18,216	PF02114.15	Phosducin	58,6	4,20E-16	CL0172
TRINITY_DN18743_c1_g1::TRINITY_DN18743_c1_g1_i1::g.105300::m.105300	3	40,4	13,318	323,31	PF00313.21	CSD	91,8	1,70E-26	CL0021
TRINITY_DN18745_c0_g3::TRINITY_DN18745_c0_g3_i8::g.105419::m.105419	6	15	43,653	24,847	PF00076.21	RRM_1	62,1	3,00E-17	CL0221
TRINITY_DN18745_c0_g4::TRINITY_DN18745_c0_g4_i1::g.105401::m.105401	1	2,8	54,839	2,1405	PF00288.25	GHMP_kinases_N	60,7	1,10E-16	CL0329
TRINITY_DN18749_c0_g2::TRINITY_DN18749_c0_g2_i4::g.105830::m.105830	8	31,6	31,046	33,892	PF00175.20	NAD_binding_1	93,7	9,80E-27	CL0091
TRINITY_DN18753_c1_g3::TRINITY_DN18753_c1_g3_i14::g.106335::m.106335	2	4,9	61,983	4,4816	PF03055.14	RPE65	404,5	5,50E-121	No_clan
TRINITY_DN18754_c0_g1::TRINITY_DN18754_c0_g1_i2::g.106002::m.106002	1	2,5	58,143	1,8897	PF07223.10	DUF1421	84,9	2,20E-24	CL0214
TRINITY_DN18755_c3_g1::TRINITY_DN18755_c3_g1_i1::g.105920::m.105920	3	12,9	34,644	7,699	PF07714.16	Pkinase_Tyr	144,3	3,60E-42	CL0016
TRINITY_DN18760_c9_g1::TRINITY_DN18760_c9_g1_i2::g.106072::m.106072	9	35,2	34,328	26,07	PF01301.18	Glyco_hydro_35	107	1,30E-30	CL0058
TRINITY_DN18760_c9_g3::TRINITY_DN18760_c9_g3_i2::g.106074::m.106074	3	21,1	18,328	5,59	PF13364.5	BetaGal_dom4_5	26,3	7,80E-06	CL0202
TRINITY_DN18764_c1_g1::TRINITY_DN18764_c1_g1_i6::g.106059::m.106059	6	21,7	35,138	149,94	PF01370.20	Epimerase	87,1	1,10E-24	CL0063
TRINITY_DN18768_c2_g1::TRINITY_DN18768_c2_g1_i1::g.106105::m.106105	5	14,4	45,922	7,8052	PF06273.10	eIF-4B	599,6	5,50E-180	No_clan
TRINITY_DN18771_c1_g1::TRINITY_DN18771_c1_g1_i3::g.106137::m.106137	2	9	43,153	3,1631	PF00069.24	Pkinase	220,8	1,90E-65	CL0016
TRINITY_DN18772_c0_g1::TRINITY_DN18772_c0_g1_i5::g.106264::m.106264	2	5	67,655	4,8494	PF03483.16	B3_4	92	3,00E-26	CL0383
TRINITY_DN18781_c0_g5::TRINITY_DN18781_c0_g5_i3::g.106209::m.106209	6	39,8	22,868	14,873	PF00400.31	WD40	13	0,14	CL0186

TRINITY_DN18783_c5_g1::TRINITY_DN18783_c5_g1_i3::g.106356::m.106356	4	10,1	55,293	9,3019	PF00450.21	Peptidase_S10	490,3	6,00E-147	CL0028
TRINITY_DN18788_c0_g2::TRINITY_DN18788_c0_g2_i3::g.106445::m.106445	1	2,6	73,366	5,6722					
TRINITY_DN18792_c0_g2::TRINITY_DN18792_c0_g2_i6::g.106589::m.106589	3	10	56,535	4,8151	PF00069.24	Pkinase	217,1	2,50E-64	CL0016
TRINITY_DN18793_c0_g1::TRINITY_DN18793_c0_g1_i11::g.106461::m.106461	4	17,8	30,584	8,7743	PF00448.21	SRP54	85,6	3,20E-24	CL0023
TRINITY_DN18797_c1_g2::TRINITY_DN18797_c1_g2_i1::g.106436::m.106436	2	15,7	13,625	3,413	PF04199.12	Cyclase	23,9	3,60E-05	CL0364
TRINITY_DN18799_c1_g2::TRINITY_DN18799_c1_g2_i3::g.106472::m.106472	8	14,8	79,737	27,89	PF00501.27	AMP-binding	348	5,30E-104	CL0378
TRINITY_DN18805_c4_g1::TRINITY_DN18805_c4_g1_i2::g.106689::m.106689	2	8,8	20,357	2,5041	PF00406.21	ADK	146	8,10E-43	CL0023
TRINITY_DN18806_c2_g1::TRINITY_DN18806_c2_g1_i13::g.106758::m.106758	3	14,6	28,86	5,4785	PF00307.30	CH	39,4	5,10E-10	CL0188
TRINITY_DN18817_c0_g1::TRINITY_DN18817_c0_g1_i10::g.107314::m.107314	9	17,7	68,241	52,217					
TRINITY_DN18818_c1_g1::TRINITY_DN18818_c1_g1_i7::g.106901::m.106901	6	18,2	45,263	10,086	PF01218.17	Coprogen_oxidas	452,4	4,20E-136	No_clan
TRINITY_DN18820_c2_g1::TRINITY_DN18820_c2_g1_i7::g.106999::m.106999	3	12,2	36,083	6,3835	PF01344.24	Kelch_1	42,1	4,40E-11	CL0186
TRINITY_DN18821_c0_g1::TRINITY_DN18821_c0_g1_i8::g.106977::m.106977	2	6,9	47,555	4,415	PF02786.16	CPSase_L_D2	253,3	1,50E-75	CL0179
TRINITY_DN19648_c4_g4::TRINITY_DN19648_c4_g4_i4::g.120655::m.120655	2	23,7	17,251	6,1229	PF00203.20	Ribosomal_S19	116,3	3,70E-34	No_clan
TRINITY_DN18832_c0_g1::TRINITY_DN18832_c0_g1_i1::g.107098::m.107098	5	32,3	21,677	12,036	PF08212.11	Lipocalin_2	180,9	1,10E-53	CL0116
TRINITY_DN18833_c4_g2::TRINITY_DN18833_c4_g2_i4::g.107207::m.107207	3	13	27,685	5,5178	PF03629.17	SASA	310,6	5,50E-93	CL0264
TRINITY_DN18840_c3_g1::TRINITY_DN18840_c3_g1_i1::g.107249::m.107249	8	57,1	17,897	66,163					
TRINITY_DN18845_c2_g1::TRINITY_DN18845_c2_g1_i6::g.106645::m.106645	3	4,8	89,474	7,1687	PF03810.18	IBN_N	50,4	1,40E-13	CL0020
TRINITY_DN18848_c2_g2::TRINITY_DN18848_c2_g2_i6::g.107389::m.107389	2	24,5	16,064	16,104	PF00240.22	ubiquitin	66,3	1,40E-18	CL0072
TRINITY_DN18850_c2_g1::TRINITY_DN18850_c2_g1_i14::g.107185::m.107185	3	12,1	47,695	6,1025	PF00501.27	AMP-binding	250,4	2,40E-74	CL0378
TRINITY_DN18850_c2_g2::TRINITY_DN18850_c2_g2_i2::g.107178::m.107178	1	2,3	55,32	1,8534					
TRINITY_DN18852_c0_g2::TRINITY_DN18852_c0_g2_i1::g.107431::m.107431	2	6,3	41,796	2,097	PF02136.19	NTF2	105,3	2,70E-30	CL0051

TRINITY_DN18855_c1_g1::TRINITY_DN18855_c1_g1_i19::g.107600::m.107600	9	17	77,643	17,567	PF00862.18	Sucrose_synth	38,3	4,80E-10	CL0113
TRINITY_DN18855_c1_g1::TRINITY_DN18855_c1_g1_i51::g.107677::m.107677	7	11,6	96,263	5,5361	PF00862.18	Sucrose_synth	37,7	7,00E-10	CL0113
TRINITY_DN18857_c0_g1::TRINITY_DN18857_c0_g1_i9::g.107487::m.107487	2	12	25,428	2,789	PF00400.31	WD40	12,6	0,19	CL0186
TRINITY_DN18857_c0_g5::TRINITY_DN18857_c0_g5_i2::g.107485::m.107485	3	36,7	16,171	23,11					
TRINITY_DN18860_c2_g4::TRINITY_DN18860_c2_g4_i2::g.107536::m.107536	2	9	48,129	9,9882	PF13664.5	DUF4149	77,7	6,30E-22	CL0430
TRINITY_DN18862_c1_g2::TRINITY_DN18862_c1_g2_i1::g.107502::m.107502	3	8,1	46,789	5,6138	PF00206.19	Lyase_1	235,2	1,00E-69	No_clan
TRINITY_DN18865_c1_g1::TRINITY_DN18865_c1_g1_i8::g.107763::m.107763	3	23,6	30,145	64,194	PF00300.21	His_Phos_1	26,9	3,10E-06	CL0071
TRINITY_DN18870_c1_g1::TRINITY_DN18870_c1_g1_i1::g.107725::m.107725	8	35,6	34,788	57,486	PF01182.19	Glucosamine_iso	244,2	1,40E-72	CL0246
TRINITY_DN18870_c1_g2::TRINITY_DN18870_c1_g2_i1::g.107727::m.107727	4	15,7	28,008	9,0238	PF01182.19	Glucosamine_iso	242,6	4,20E-72	CL0246
TRINITY_DN18873_c0_g1::TRINITY_DN18873_c0_g1_i7::g.107966::m.107966	1	1,9	68,833	2,2987	PF02222.21	ATP-grasp	189,4	3,40E-56	CL0179
TRINITY_DN18875_c2_g2::TRINITY_DN18875_c2_g2_i2::g.107929::m.107929	15	61,6	36,757	222,82	PF00022.18	Actin	416,2	1,00E-124	CL0108
TRINITY_DN18875_c2_g2::TRINITY_DN18875_c2_g2_i3::g.107932::m.107932	15	63,9	35,399	10,84	PF00022.18	Actin	390,2	7,90E-117	CL0108
TRINITY_DN18875_c2_g5::TRINITY_DN18875_c2_g5_i2::g.107944::m.107944	7	65,8	17,809	2,5955	PF00022.18	Actin	216,7	3,70E-64	CL0108
TRINITY_DN18878_c2_g2::TRINITY_DN18878_c2_g2_i9::g.108021::m.108021	2	6,4	46,229	2,1125	PF00067.21	p450	138,3	2,80E-40	No_clan
TRINITY_DN18883_c1_g1::TRINITY_DN18883_c1_g1_i14::g.108273::m.108273	22	34	94,516	61,99	PF00012.19	HSP70	533,8	4,00E-160	CL0108
TRINITY_DN18883_c1_g1::TRINITY_DN18883_c1_g1_i17::g.108283::m.108283	20	39,4	72,952	12,794	PF00012.19	HSP70	516,6	6,60E-155	CL0108
TRINITY_DN18884_c1_g1::TRINITY_DN18884_c1_g1_i5::g.108202::m.108202	2	3,3	78,268	4,8021	PF08700.10	Vps51	45,9	4,20E-12	CL0295
TRINITY_DN18886_c3_g1::TRINITY_DN18886_c3_g1_i2::g.108068::m.108068	3	17,8	30,709	5,2556	PF08100.10	Dimerisation	25,9	7,00E-06	CL0123
TRINITY_DN18889_c2_g1::TRINITY_DN18889_c2_g1_i17::g.108140::m.108140	7	37	25,627	57,054	PF00702.25	Hydrolase	56,9	3,30E-15	CL0137
TRINITY_DN18894_c1_g1::TRINITY_DN18894_c1_g1_i9::g.108231::m.108231	7	50,9	12,357	76,254	PF00244.19	14.03.2003	118,3	3,10E-34	No_clan

TRINITY_DN18894_c1_g1::TRINITY_DN18894_c1_g1_i5::g.108225::m.108225	7	55,8	18,324	38,607	PF00244.19	14.03.2003	221,4	9,20E-66	No_clan
TRINITY_DN18894_c1_g3::TRINITY_DN18894_c1_g3_i1::g.108226::m.108226	8	32,1	33,982	20,224	PF00013.28	KH_1	49,2	3,20E-13	CL0007
TRINITY_DN18895_c1_g2::TRINITY_DN18895_c1_g2_i8::g.108488::m.108488	5	18,3	29,047	8,2485	PF00160.20	Pro_isomerase	164	2,90E-48	CL0475
TRINITY_DN18900_c0_g1::TRINITY_DN18900_c0_g1_i6::g.107340::m.107340	3	11,8	38,207	5,9245	PF05542.10	DUF760	72,4	2,70E-20	No_clan
TRINITY_DN18902_c0_g1::TRINITY_DN18902_c0_g1_i9::g.108609::m.108609	8	25,5	49,306	85,003	PF00331.19	Glyco_hydro_10	167,4	4,00E-49	CL0058
TRINITY_DN18903_c0_g1::TRINITY_DN18903_c0_g1_i9::g.108678::m.108678	2	4,9	46,675	2,7767	PF13393.5	tRNA-synt_His	55,2	6,00E-15	CL0040
TRINITY_DN18905_c1_g2::TRINITY_DN18905_c1_g2_i9::g.108635::m.108635	1	10,2	16,696	3,6522					
TRINITY_DN18909_c0_g1::TRINITY_DN18909_c0_g1_i4::g.108774::m.108774	7	16,5	66,473	18,234	PF08662.10	eIF2A	220,1	2,20E-65	CL0186
TRINITY_DN18913_c2_g1::TRINITY_DN18913_c2_g1_i5::g.108928::m.108928	4	6,1	81,894	7,1589	PF03635.16	Vps35	853,9	1,10E-256	No_clan
TRINITY_DN18919_c2_g1::TRINITY_DN18919_c2_g1_i5::g.108804::m.108804	2	3,6	75,671	2,1788					
TRINITY_DN18921_c0_g1::TRINITY_DN18921_c0_g1_i2::g.108916::m.108916	4	11,2	66,555	31,789	PF00995.22	Sec1	370,8	1,80E-110	No_clan
TRINITY_DN18925_c2_g2::TRINITY_DN18925_c2_g2_i2::g.109044::m.109044	1	16	14,347	5,0631	PF04431.12	Pec_lyase_N	78,2	3,80E-22	No_clan
TRINITY_DN18926_c2_g1::TRINITY_DN18926_c2_g1_i1::g.109132::m.109132	5	7,6	84,296	7,0869	PF08318.11	COG4	249,6	3,90E-74	CL0294
TRINITY_DN18930_c0_g5::TRINITY_DN18930_c0_g5_i4::g.109035::m.109035	2	11,9	32,539	4,4189	PF00067.21	p450	242,4	7,80E-72	No_clan
TRINITY_DN18932_c2_g2::TRINITY_DN18932_c2_g2_i2::g.109083::m.109083	2	9	37,535	5,4721	PF05770.10	Ins134_P3_kin	381,1	3,60E-114	CL0179
TRINITY_DN18939_c0_g2::TRINITY_DN18939_c0_g2_i7::g.109183::m.109183	1	3,6	37,037	4,6686	PF16863.4	NtCtMGAM_N	81,4	5,10E-23	No_clan
TRINITY_DN18940_c3_g1::TRINITY_DN18940_c3_g1_i4::g.109190::m.109190	1	15,1	13,41	6,3473	PF06480.14	FtsH_ext	49	5,80E-13	No_clan
TRINITY_DN18942_c3_g3::TRINITY_DN18942_c3_g3_i8::g.109006::m.109006	6	12,7	88,721	12,298	PF00076.21	RRM_1	68,6	2,80E-19	CL0221
TRINITY_DN18947_c6_g2::TRINITY_DN18947_c6_g2_i2::g.109306::m.109306	3	25,6	13,171	73,458	PF00112.22	Peptidase_C1	119,8	1,70E-34	CL0125
TRINITY_DN18947_c6_g5::TRINITY_DN18947_c6_g5_i2::g.109307::m.109307	2	11,8	16,196	5,1078	PF00112.22	Peptidase_C1	94,8	7,10E-27	CL0125
TRINITY_DN18952_c2_g1::TRINITY_DN18952_c2_g1_i9::g.109479::m.109479	2	5,1	48,498	2,9818	PF00067.21	p450	260,6	2,30E-77	No_clan

TRINITY_DN18954_c0_g3::TRINITY_DN18954_c0_g3_i4::g.109379::m.109379	13	41,4	50,269	50,45	PF00330.19	Aconitase	175,6	1,70E-51	No_clan
TRINITY_DN18955_c2_g1::TRINITY_DN18955_c2_g1_i2::g.109309::m.109309	1	17,5	14,624	6,3334	PF01920.19	Prefoldin_2	77,7	5,40E-22	CL0200
TRINITY_DN18955_c3_g1::TRINITY_DN18955_c3_g1_i8::g.109317::m.109317	3	9,3	58,415	5,69	PF00009.26	GTP_EFTU	61,4	7,30E-17	CL0023
TRINITY_DN18961_c1_g1::TRINITY_DN18961_c1_g1_i1::g.109399::m.109399	10	39,7	30,144	204,65					
TRINITY_DN18962_c1_g1::TRINITY_DN18962_c1_g1_i3::g.109730::m.109730	3	6,6	87,999	5,719	PF16486.4	ArgoN	48,8	1,00E-12	No_clan
TRINITY_DN18965_c3_g1::TRINITY_DN18965_c3_g1_i3::g.109455::m.109455	1	25,4	9,8984	43,297					
TRINITY_DN18966_c3_g3::TRINITY_DN18966_c3_g3_i5::g.109514::m.109514	1	4,6	42,594	1,8351	PF03153.12	TFIIA	48,4	1,20E-12	No_clan
TRINITY_DN18967_c1_g1::TRINITY_DN18967_c1_g1_i1::g.109547::m.109547	4	8,6	49,3	7,1453	PF01979.19	Amidohydro_1	100,7	9,40E-29	CL0034
TRINITY_DN18968_c1_g1::TRINITY_DN18968_c1_g1_i9::g.109574::m.109574	2	6,6	53,73	4,3028	PF00122.19	E1-E2_ATPase	80,5	1,00E-22	No_clan
TRINITY_DN18969_c3_g1::TRINITY_DN18969_c3_g1_i1::g.109636::m.109636	20	48,5	53,329	323,31	PF05221.16	AdoHcyase	477,2	1,60E-143	CL0325
TRINITY_DN18971_c1_g2::TRINITY_DN18971_c1_g2_i2::g.109643::m.109643	1	13,8	12,581	1,9377	PF07168.10	Ureide_permease	153	8,40E-45	CL0184
TRINITY_DN18972_c2_g2::TRINITY_DN18972_c2_g2_i2::g.109605::m.109605	3	25,8	40,792	15,379	PF12796.6	Ank_2	58,8	5,70E-16	CL0465
TRINITY_DN18973_c0_g1::TRINITY_DN18973_c0_g1_i1::g.109653::m.109653	7	32,7	24,884	51,241	PF01201.21	Ribosomal_S8e	197,2	1,00E-58	No_clan
TRINITY_DN18981_c5_g1::TRINITY_DN18981_c5_g1_i2::g.109832::m.109832	13	31,1	60,505	39,872	PF00118.23	Cpn60_TCP1	534,3	2,50E-160	No_clan
TRINITY_DN18982_c0_g1::TRINITY_DN18982_c0_g1_i8::g.109877::m.109877	9	30,4	43,833	95,548	PF00557.23	Peptidase_M24	96,2	1,90E-27	No_clan
TRINITY_DN18983_c0_g1::TRINITY_DN18983_c0_g1_i9::g.110074::m.110074	2	4,2	74,027	2,7482	PF00415.17	RCC1	38,3	1,40E-09	CL0186
TRINITY_DN18985_c1_g6::TRINITY_DN18985_c1_g6_i3::g.109896::m.109896	2	4,6	61,269	2,7493	PF17047.4	SMP_LBD	66,7	1,70E-18	CL0648
TRINITY_DN18987_c2_g1::TRINITY_DN18987_c2_g1_i1::g.110056::m.110056	4	7	76,14	4,4961	PF00933.20	Glyco_hydro_3	240,1	3,40E-71	CL0058
TRINITY_DN18987_c4_g3::TRINITY_DN18987_c4_g3_i1::g.110065::m.110065	7	40,2	23,795	65,986	PF00933.20	Glyco_hydro_3	135,9	1,90E-39	CL0058
TRINITY_DN18987_c4_g5::TRINITY_DN18987_c4_g5_i1::g.110067::m.110067	1	12	10,96	2,4605					
TRINITY_DN18988_c0_g2::TRINITY_DN18988_c0_g2_i2::g.109900::m.109900	5	50	12,125	290,89	PF00162.18	PGK	127,7	4,90E-37	No_clan

TRINITY_DN18990_c0_g1::TRINITY_DN18990_c0_g1_i1::g.110013::m.110013	1	7,9	25,647	2,8782					
TRINITY_DN18991_c0_g1::TRINITY_DN18991_c0_g1_i4::g.110139::m.110139	3	13,1	38,518	5,3375	PF00013.28	KH_1	56,1	2,20E-15	CL0007
TRINITY_DN18997_c1_g1::TRINITY_DN18997_c1_g1_i3::g.110273::m.110273	3	5,5	101,37	8,5304	PF14510.5	ABC_trans_N	38	1,70E-09	No_clan
TRINITY_DN18998_c2_g1::TRINITY_DN18998_c2_g1_i7::g.108559::m.108559	5	7,1	126,94	13,013	PF00018.27	SH3_1	23,6	2,60E-05	CL0010
TRINITY_DN18999_c4_g1::TRINITY_DN18999_c4_g1_i2::g.110202::m.110202	2	14,8	34,428	19,275	PF02893.19	GRAM	92,3	1,50E-26	CL0266
TRINITY_DN19001_c1_g1::TRINITY_DN19001_c1_g1_i22::g.110256::m.110256	8	50	19,031	7,4007	PF01263.19	Aldose_epim	125,9	1,80E-36	CL0103
TRINITY_DN19006_c2_g1::TRINITY_DN19006_c2_g1_i11::g.110719::m.110719	1	7,7	24,886	3,2561	PF00069.24	Pkinase	103,2	1,40E-29	CL0016
TRINITY_DN19009_c0_g1::TRINITY_DN19009_c0_g1_i8::g.110506::m.110506	2	10,9	20,836	2,0857	PF00179.25	UQ_con	134,6	1,70E-39	CL0208
TRINITY_DN19010_c0_g2::TRINITY_DN19010_c0_g2_i1::g.110437::m.110437	1	11,4	14,174	54,531	PF00076.21	RRM_1	84,7	2,60E-24	CL0221
TRINITY_DN19013_c0_g2::TRINITY_DN19013_c0_g2_i3::g.110484::m.110484	4	30,7	16,21	28,072	PF00411.18	Ribosomal_S11	160,5	1,50E-47	CL0267
TRINITY_DN19014_c2_g1::TRINITY_DN19014_c2_g1_i4::g.110590::m.110590	5	48,6	12,587	44,358	PF00311.16	PEPcase	74,8	3,90E-21	CL0151
TRINITY_DN19014_c2_g2::TRINITY_DN19014_c2_g2_i8::g.110573::m.110573	14	18	110,18	6,148	PF00311.16	PEPcase	1016,4	0	CL0151
TRINITY_DN19014_c2_g2::TRINITY_DN19014_c2_g2_i15::g.110588::m.110588	18	25,8	98,921	-2	PF00311.16	PEPcase	930,7	6,00E-280	CL0151
TRINITY_DN19014_c2_g2::TRINITY_DN19014_c2_g2_i4::g.110567::m.110567	19	26,7	98,89	42,485	PF00311.16	PEPcase	929,9	1,10E-279	CL0151
TRINITY_DN19016_c1_g5::TRINITY_DN19016_c1_g5_i1::g.110613::m.110613	1	12,7	12,624	2,1405	PF00348.16	polyprenyl_synt	64,3	8,30E-18	CL0613
TRINITY_DN19022_c0_g1::TRINITY_DN19022_c0_g1_i10::g.110657::m.110657	1	4,8	34,553	2,5868	PF00180.19	Iso_dh	203,9	3,40E-60	CL0270
TRINITY_DN19026_c0_g3::TRINITY_DN19026_c0_g3_i5::g.110636::m.110636	6	11,6	80,226	10,705	PF14570.5	zf-RING_4	52,5	2,80E-14	CL0229
TRINITY_DN19032_c2_g1::TRINITY_DN19032_c2_g1_i2::g.110806::m.110806	1	4,7	38,018	2,5674	PF00069.24	Pkinase	101,7	4,00E-29	CL0016
TRINITY_DN19032_c3_g1::TRINITY_DN19032_c3_g1_i17::g.110826::m.110826	1	2,3	64,283	2,3532	PF00069.24	Pkinase	145,8	1,40E-42	CL0016
TRINITY_DN19036_c0_g1::TRINITY_DN19036_c0_g1_i4::g.110800::m.110800	2	9,9	32,018	2,9273	PF00168.29	C2	53,8	1,80E-14	CL0154
TRINITY_DN19040_c3_g4::TRINITY_DN19040_c3_g4_i1::g.110853::m.110853	10	37,4	41,386	250,65	PF00698.20	Acyl_transf_1	89,8	2,20E-25	CL0323

TRINITY_DN19041_c0_g1::TRINITY_DN19041_c0_g1_i8::g.110918::m.110918	9	51,7	23,346	275,41	PF00071.21	Ras	188,4	6,00E-56	CL0023
TRINITY_DN19045_c3_g1::TRINITY_DN19045_c3_g1_i11::g.111100::m.111100	1	4,1	50,785	3,1164	PF04576.14	Zein-binding	66,6	1,60E-18	No_clan
TRINITY_DN19047_c1_g5::TRINITY_DN19047_c1_g5_i2::g.111027::m.111027	3	13,7	36,636	8,4719	PF14226.5	DIOX_N	120,3	6,90E-35	CL0029
TRINITY_DN19049_c0_g1::TRINITY_DN19049_c0_g1_i9::g.110547::m.110547	3	14,5	39,235	7,4995					
TRINITY_DN19058_c2_g1::TRINITY_DN19058_c2_g1_i7::g.111114::m.111114	4	12,5	45,321	7,1332	PF14543.5	TAXi_N	171,9	1,40E-50	CL0129
TRINITY_DN19061_c2_g1::TRINITY_DN19061_c2_g1_i2::g.111195::m.111195	5	18,1	28,385	8,2148	PF01813.16	ATP-synt_D	238,9	3,80E-71	No_clan
TRINITY_DN19061_c2_g6::TRINITY_DN19061_c2_g6_i3::g.111201::m.111201	4	16,1	29,132	3,3472	PF01813.16	ATP-synt_D	233,5	1,70E-69	No_clan
TRINITY_DN19063_c1_g2::TRINITY_DN19063_c1_g2_i13::g.111218::m.111218	3	14,6	36,352	6,2669	PF01467.25	CTP_transf_like	38,8	9,20E-10	CL0039
TRINITY_DN19064_c0_g1::TRINITY_DN19064_c0_g1_i3::g.111228::m.111228	1	3,3	54,132	1,924	PF00005.26	ABC_tran	85,7	3,70E-24	CL0023
TRINITY_DN19066_c1_g3::TRINITY_DN19066_c1_g3_i1::g.111236::m.111236	2	8,6	27,75	2,6423	PF13460.5	NAD_binding_10	156,6	5,90E-46	CL0063
TRINITY_DN19069_c0_g1::TRINITY_DN19069_c0_g1_i4::g.111231::m.111231	1	8,3	34,196	3,3337					
TRINITY_DN19070_c1_g2::TRINITY_DN19070_c1_g2_i7::g.110348::m.110348	7	31,7	24,709	296,99	PF09032.10	Siah-Interact_N	29,8	5,20E-07	No_clan
TRINITY_DN19075_c0_g2::TRINITY_DN19075_c0_g2_i2::g.111296::m.111296	4	8,1	66,179	7,9946	PF01565.22	FAD_binding_4	56,7	2,00E-15	CL0077
TRINITY_DN19075_c1_g2::TRINITY_DN19075_c1_g2_i3::g.111314::m.111314	1	22,6	12,011	2,8193					
TRINITY_DN19077_c0_g1::TRINITY_DN19077_c0_g1_i1::g.111277::m.111277	8	29,9	31,854	47,197	PF00141.22	peroxidase	164	3,90E-48	CL0617
TRINITY_DN19078_c0_g3::TRINITY_DN19078_c0_g3_i6::g.111344::m.111344	1	9,9	15,701	5,937	PF05184.14	SapB_1	58,3	4,80E-16	No_clan
TRINITY_DN19080_c0_g1::TRINITY_DN19080_c0_g1_i5::g.111810::m.111810	7	23,6	45,039	42,943	PF01180.20	DHO_dh	106,9	1,00E-30	CL0036
TRINITY_DN19080_c0_g2::TRINITY_DN19080_c0_g2_i7::g.111803::m.111803	5	7,7	105,73	9,1564	PF00326.20	Peptidase_S9	75,8	3,00E-21	CL0028
TRINITY_DN19082_c3_g1::TRINITY_DN19082_c3_g1_i2::g.111610::m.111610	1	7,6	17,654	3,1926	PF13664.5	DUF4149	92	2,20E-26	CL0430
TRINITY_DN19082_c3_g2::TRINITY_DN19082_c3_g2_i2::g.111602::m.111602	1	3,1	34,932	1,8827	PF00854.20	PTR2	118,9	2,10E-34	CL0015
TRINITY_DN19085_c0_g1::TRINITY_DN19085_c0_g1_i22::g.111744::m.111744	1	3,6	43,209	2,0848					
TRINITY_DN19087_c0_g3::TRINITY_DN19087_c0_g3_i1::g.111646::m.111646	1	17,1	11,451	3,5162	PF09446.9	VMA21	70,1	1,10E-19	No_clan

TRINITY_DN19089_c3_g2::TRINITY_DN19089_c3_g2_i5::g.111660::m.111660	2	5,7	44,434	2,5765	PF01399.26	PCI	40,3	3,30E-10	CL0123
TRINITY_DN19093_c2_g2::TRINITY_DN19093_c2_g2_i1::g.111778::m.111778	8	17	69,628	14,691	PF00390.18	malic	257,3	6,80E-77	CL0603
TRINITY_DN19095_c0_g1::TRINITY_DN19095_c0_g1_i1::g.111856::m.111856	5	25,6	17,482	33,208	PF01287.19	eIF-5a	99,5	7,90E-29	CL0021
TRINITY_DN19101_c2_g2::TRINITY_DN19101_c2_g2_i4::g.111950::m.111950	2	4,7	52,523	3,7678	PF03853.14	YjeF_N	115,6	1,90E-33	CL0063
TRINITY_DN19108_c2_g3::TRINITY_DN19108_c2_g3_i2::g.112222::m.112222	3	41	14,54	22,426	PF11721.7	Malectin	29,4	7,00E-07	CL0468
TRINITY_DN19110_c2_g1::TRINITY_DN19110_c2_g1_i2::g.112351::m.112351	2	29,7	24,873	2,7986					
TRINITY_DN19115_c1_g2::TRINITY_DN19115_c1_g2_i10::g.112400::m.112400	4	10,7	53,131	9,5089	PF00485.17	PRK	161,9	1,40E-47	CL0023
TRINITY_DN19119_c0_g1::TRINITY_DN19119_c0_g1_i6::g.112459::m.112459	4	24,4	32,238	10,614	PF00995.22	Sec1	109,7	2,10E-31	No_clan
TRINITY_DN19123_c0_g2::TRINITY_DN19123_c0_g2_i1::g.112423::m.112423	2	5,4	63,864	3,1822	PF03152.13	UFD1	155,8	6,70E-46	CL0402
TRINITY_DN19124_c2_g3::TRINITY_DN19124_c2_g3_i2::g.112438::m.112438	3	16,3	34,428	5,5022	PF01595.19	DUF21	133,1	7,50E-39	No_clan
TRINITY_DN19126_c0_g1::TRINITY_DN19126_c0_g1_i4::g.112486::m.112486	7	14,4	68,629	16,819	PF03141.15	Methyltransf_29	724,4	6,10E-218	CL0063
TRINITY_DN19133_c0_g1::TRINITY_DN19133_c0_g1_i8::g.112559::m.112559	2	25,8	18,255	6,3016					
TRINITY_DN19136_c0_g1::TRINITY_DN19136_c0_g1_i3::g.112661::m.112661	1	12,4	14,163	2,7655	PF00179.25	UQ_con	72,4	2,60E-20	CL0208
TRINITY_DN19141_c0_g1::TRINITY_DN19141_c0_g1_i8::g.112746::m.112746	6	20,5	47,994	11,43	PF00364.21	Biotin_lipoyl	71,4	3,70E-20	CL0105
TRINITY_DN19143_c2_g1::TRINITY_DN19143_c2_g1_i5::g.112885::m.112885	2	2,7	110,09	2,4614					
TRINITY_DN19145_c0_g2::TRINITY_DN19145_c0_g2_i2::g.112927::m.112927	10	59	18,999	323,31	PF04043.14	PMEI	46,5	4,40E-12	No_clan
TRINITY_DN19149_c0_g1::TRINITY_DN19149_c0_g1_i16::g.113757::m.113757	2	7,1	49,177	2,7117					
TRINITY_DN19149_c0_g1::TRINITY_DN19149_c0_g1_i14::g.113756::m.113756	1	17,2	13,142	2,8645	PF00957.20	Synaptobrevin	30,5	2,20E-07	CL0445
TRINITY_DN19153_c1_g1::TRINITY_DN19153_c1_g1_i1::g.112868::m.112868	2	14,7	24,309	5,6536	PF03765.14	CRAL_TRIO_N	32,3	7,90E-08	No_clan
TRINITY_DN19153_c1_g3::TRINITY_DN19153_c1_g3_i2::g.112871::m.112871	1	18,1	11,555	2,9405					
TRINITY_DN19154_c1_g1::TRINITY_DN19154_c1_g1_i1::g.113024::m.113024	5	25,8	25,092	62,201	PF00081.21	Sod_Fe_N	115,8	8,30E-34	No_clan

TRINITY_DN19156_c1_g1::TRINITY_DN19156_c1_g1_i7::g.113150::m.113150	3	20,4	22,099	5,1388	PF00445.17	Ribonuclease_T2	137,1	7,10E-40	No_clan
TRINITY_DN19158_c0_g2::TRINITY_DN19158_c0_g2_i3::g.112794::m.112794	6	16,6	61,596	23,097					
TRINITY_DN19159_c0_g2::TRINITY_DN19159_c0_g2_i3::g.113047::m.113047	3	27,4	16,197	15,047	PF00182.18	Glyco_hydro_19	209,9	4,40E-62	CL0037
TRINITY_DN19169_c1_g1::TRINITY_DN19169_c1_g1_i1::g.113168::m.113168	3	21	12,604	5,4527	PF01370.20	Epimerase	42,4	5,00E-11	CL0063
TRINITY_DN19169_c1_g3::TRINITY_DN19169_c1_g3_i6::g.113174::m.113174	4	33,1	16,896	198,96					
TRINITY_DN19174_c1_g3::TRINITY_DN19174_c1_g3_i1::g.113399::m.113399	5	21,3	31,453	15,849	PF13249.5	SQHop_cyclase_N	119,3	1,60E-34	CL0059
TRINITY_DN19176_c1_g1::TRINITY_DN19176_c1_g1_i6::g.113373::m.113373	1	11,7	11,186	1,9818					
TRINITY_DN19177_c0_g1::TRINITY_DN19177_c0_g1_i1::g.113288::m.113288	12	20,2	68,624	18,666	PF00749.20	tRNA-synt_1c	335,1	2,90E-100	CL0039
TRINITY_DN19181_c1_g1::TRINITY_DN19181_c1_g1_i4::g.113426::m.113426	3	10,9	38,286	11,824	PF00903.24	Glyoxalase	28,6	1,20E-06	CL0104
TRINITY_DN19182_c1_g1::TRINITY_DN19182_c1_g1_i6::g.113457::m.113457	12	32,5	49,41	154,95	PF00152.19	tRNA-synt_2	263,5	2,10E-78	CL0040
TRINITY_DN19186_c1_g1::TRINITY_DN19186_c1_g1_i2::g.113474::m.113474	4	43,5	13,841	29,839	PF01717.17	Meth_synt_2	176,7	6,40E-52	CL0160
TRINITY_DN19187_c0_g2::TRINITY_DN19187_c0_g2_i3::g.113547::m.113547	6	53,9	13,598	27,085	PF00627.30	UBA	36,1	4,10E-09	CL0214
TRINITY_DN19187_c2_g2::TRINITY_DN19187_c2_g2_i1::g.113564::m.113564	6	32,8	21,423	93,583	PF00543.21	P-II	114,3	3,10E-33	CL0089
TRINITY_DN19191_c0_g2::TRINITY_DN19191_c0_g2_i4::g.113786::m.113786	1	16,2	18,368	2,5804	PF00149.27	Metallophos	44	3,30E-11	CL0163
TRINITY_DN19193_c1_g1::TRINITY_DN19193_c1_g1_i1::g.113618::m.113618	3	33	12,902	31,454	PF16113.4	ECH_2	87,1	1,40E-24	CL0127
TRINITY_DN19193_c1_g3::TRINITY_DN19193_c1_g3_i5::g.113622::m.113622	1	7,8	20,978	2,7964	PF16113.4	ECH_2	250,5	2,80E-74	CL0127
TRINITY_DN19195_c4_g1::TRINITY_DN19195_c4_g1_i3::g.113639::m.113639	4	18,8	39,195	8,5879	PF01301.18	Glyco_hydro_35	403,8	5,90E-121	CL0058
TRINITY_DN19198_c2_g2::TRINITY_DN19198_c2_g2_i7::g.112135::m.112135	3	16,8	21,468	5,5657	PF13774.5	Longin	84,8	3,00E-24	No_clan
TRINITY_DN19199_c1_g1::TRINITY_DN19199_c1_g1_i2::g.113819::m.113819	2	0,7	274,02	2,6092					
TRINITY_DN19207_c4_g2::TRINITY_DN19207_c4_g2_i3::g.114212::m.114212	1	1,9	70,111	2,0394	PF00564.23	PB1	69,7	1,40E-19	CL0072
TRINITY_DN19209_c0_g1::TRINITY_DN19209_c0_g1_i7::g.114040::m.114040	3	15,9	32,024	4,8785	PF11987.7	IF-2	77,5	6,50E-22	No_clan

TRINITY_DN19210_c1_g1::TRINITY_DN19210_c1_g1_i13::g.114068::m.114068	4	7	96,563	9,9203	PF15469.5	Sec5	168,5	1,30E-49	CL0295
TRINITY_DN19212_c0_g1::TRINITY_DN19212_c0_g1_i8::g.114108::m.114108	1	3,8	42,017	2,4369	PF07714.16	Pkinase_Tyr	249,8	2,50E-74	CL0016
TRINITY_DN19212_c1_g1::TRINITY_DN19212_c1_g1_i8::g.114114::m.114114	3	10,6	30,317	3,9989	PF00012.19	HSP70	32,2	3,10E-08	CL0108
TRINITY_DN19219_c1_g1::TRINITY_DN19219_c1_g1_i14::g.114200::m.114200	6	16	63,726	10,019	PF08263.11	LRRNT_2	31,1	1,90E-07	No_clan
TRINITY_DN19222_c3_g1::TRINITY_DN19222_c3_g1_i5::g.114236::m.114236	4	12,4	49,584	8,4423	PF00201.17	UDPGT	114	7,60E-33	CL0113
TRINITY_DN19228_c2_g1::TRINITY_DN19228_c2_g1_i5::g.114244::m.114244	2	21,4	15,815	2,6772					
TRINITY_DN19231_c4_g1::TRINITY_DN19231_c4_g1_i8::g.114359::m.114359	4	11,1	56,78	7,3473	PF00501.27	AMP-binding	345,8	2,50E-103	CL0378
TRINITY_DN19235_c2_g1::TRINITY_DN19235_c2_g1_i2::g.114336::m.114336	2	22,7	21,884	6,2295	PF12819.6	Malectin_like	56,9	1,80E-15	CL0468
TRINITY_DN19235_c2_g2::TRINITY_DN19235_c2_g2_i3::g.114333::m.114333	4	21,9	27,012	42,123	PF14560.5	Ubiquitin_2	101,8	2,00E-29	CL0072
TRINITY_DN19239_c3_g1::TRINITY_DN19239_c3_g1_i4::g.113825::m.113825	1	2,8	49,994	1,8413	PF06814.12	Lung_7-TM_R	164,1	3,90E-48	CL0192
TRINITY_DN19240_c1_g1::TRINITY_DN19240_c1_g1_i5::g.114383::m.114383	2	26,1	15,351	6,3586	PF01704.17	UDPGP	26	3,10E-06	CL0110
TRINITY_DN19240_c1_g2::TRINITY_DN19240_c1_g2_i4::g.114388::m.114388	1	4,7	52,501	2,3833					
TRINITY_DN19241_c0_g1::TRINITY_DN19241_c0_g1_i6::g.115140::m.115140	1	13	12,246	4,9423					
TRINITY_DN19244_c2_g1::TRINITY_DN19244_c2_g1_i18::g.114657::m.114657	4	16,9	28,997	8,354	PF01918.20	Alba	65,5	2,70E-18	CL0441
TRINITY_DN19247_c0_g1::TRINITY_DN19247_c0_g1_i9::g.114529::m.114529	12	25,4	58,138	265,83	PF00928.20	Adap_comp_sub	108,2	4,20E-31	CL0448
TRINITY_DN19247_c0_g1::TRINITY_DN19247_c0_g1_i8::g.114528::m.114528	7	34,3	26,473	2,1676	PF00928.20	Adap_comp_sub	108,8	2,70E-31	CL0448
TRINITY_DN19251_c1_g2::TRINITY_DN19251_c1_g2_i24::g.114984::m.114984	12	31,4	60,22	63,99	PF00069.24	Pkinase	226,6	3,10E-67	CL0016
TRINITY_DN19251_c1_g2::TRINITY_DN19251_c1_g2_i17::g.114967::m.114967	7	45,8	16,898	9,1928					
TRINITY_DN19251_c1_g2::TRINITY_DN19251_c1_g2_i27::g.114997::m.114997	9	39,4	29,239	13,031					
TRINITY_DN19252_c1_g4::TRINITY_DN19252_c1_g4_i7::g.114562::m.114562	4	20,4	33,078	10,318	PF13616.5	Rotamase_3	58,1	1,10E-15	CL0487
TRINITY_DN19255_c4_g1::TRINITY_DN19255_c4_g1_i5::g.114861::m.114861	2	12,9	20,203	3,5737					

TRINITY_DN19257_c3_g1::TRINITY_DN19257_c3_g1_i1::g.114723::m.114723	1	5,9	42,324	1,9831	PF04526.12	DUF568	80,2	1,30E-22	No_clan
TRINITY_DN19260_c1_g1::TRINITY_DN19260_c1_g1_i11::g.114784::m.114784	12	38,7	41,331	67,786	PF00996.17	GDI	626,1	2,10E-188	CL0063
TRINITY_DN19261_c3_g1::TRINITY_DN19261_c3_g1_i6::g.113934::m.113934	7	28,3	36,426	18,405	PF02364.14	Glucan_synthase	455,3	3,70E-136	CL0111
TRINITY_DN19263_c0_g1::TRINITY_DN19263_c0_g1_i2::g.114802::m.114802	5	26,6	24,624	10,439	PF01432.19	Peptidase_M3	185,4	2,10E-54	CL0126
TRINITY_DN19263_c0_g1::TRINITY_DN19263_c0_g1_i6::g.114813::m.114813	4	15,1	31,693	2,0194	PF01432.19	Peptidase_M3	273	5,80E-81	CL0126
TRINITY_DN19263_c0_g3::TRINITY_DN19263_c0_g3_i3::g.114810::m.114810	13	45,3	41,434	2,6017	PF01432.19	Peptidase_M3	162	2,70E-47	CL0126
TRINITY_DN19263_c0_g3::TRINITY_DN19263_c0_g3_i4::g.114811::m.114811	16	46,6	48,427	237,79	PF01432.19	Peptidase_M3	167,3	6,80E-49	CL0126
TRINITY_DN19268_c1_g1::TRINITY_DN19268_c1_g1_i2::g.114841::m.114841	10	27	46,903	35,361	PF00118.23	Cpn60_TCP1	417,9	4,80E-125	No_clan
TRINITY_DN19270_c0_g2::TRINITY_DN19270_c0_g2_i4::g.115031::m.115031	5	24,2	30,584	7,8696	PF00656.21	Peptidase_C14	93,2	2,20E-26	CL0093
TRINITY_DN19277_c4_g1::TRINITY_DN19277_c4_g1_i8::g.115170::m.115170	2	9	43,03	1,9402	PF01734.21	Patatin	77,2	1,70E-21	CL0323
TRINITY_DN19280_c0_g1::TRINITY_DN19280_c0_g1_i3::g.115040::m.115040	1	12	12,402	1,8435					
TRINITY_DN19280_c0_g1::TRINITY_DN19280_c0_g1_i5::g.115042::m.115042	2	7,6	47,713	4,0833					
TRINITY_DN19281_c0_g3::TRINITY_DN19281_c0_g3_i5::g.115036::m.115036	16	55,4	31,125	310,4	PF00262.17	Calreticulin	199,9	5,00E-59	CL0004
TRINITY_DN19281_c0_g5::TRINITY_DN19281_c0_g5_i1::g.115035::m.115035	9	60,8	13,782	212,26	PF00262.17	Calreticulin	54,1	1,00E-14	CL0004
TRINITY_DN19286_c0_g1::TRINITY_DN19286_c0_g1_i3::g.115330::m.115330	11	15,6	88,556	64,427	PF00293.27	NUDIX	60	2,10E-16	CL0261
TRINITY_DN19289_c1_g2::TRINITY_DN19289_c1_g2_i6::g.115366::m.115366	2	3,8	62,652	3,3073					
TRINITY_DN19290_c6_g1::TRINITY_DN19290_c6_g1_i1::g.115224::m.115224	5	15,8	48,026	10,733	PF00266.18	Aminotran_5	289,8	2,50E-86	CL0061
TRINITY_DN19292_c1_g3::TRINITY_DN19292_c1_g3_i1::g.115388::m.115388	17	47,6	38,427	170,33	PF14492.5	EFG_II	35,4	8,00E-09	CL0437
TRINITY_DN19292_c1_g4::TRINITY_DN19292_c1_g4_i1::g.115390::m.115390	22	54,4	56,452	323,31	PF00009.26	GTP_EFTU	220,9	1,00E-65	CL0023
TRINITY_DN19301_c0_g1::TRINITY_DN19301_c0_g1_i6::g.115549::m.115549	3	20,3	27,58	6,9578	PF00786.27	PBD	37,3	2,40E-09	No_clan
TRINITY_DN19302_c0_g2::TRINITY_DN19302_c0_g2_i5::g.115749::m.115749	2	11,5	22,945	2,6124	PF00063.20	Myosin_head	244,4	2,00E-72	CL0023

TRINITY_DN19305_c2_g3::TRINITY_DN19305_c2_g3_i4::g.115690::m.115690	1	7,8	18,212	8,0791	PF01490.17	Aa_trans	120,9	5,10E-35	CL0062
TRINITY_DN19318_c3_g1::TRINITY_DN19318_c3_g1_i7::g.115859::m.115859	1	6,9	18,564	1,8779	PF01300.17	Sua5_yciO_yrdC	137,5	3,10E-40	No_clan
TRINITY_DN19319_c0_g3::TRINITY_DN19319_c0_g3_i9::g.115912::m.115912	2	11,3	20,853	3,535	PF00076.21	RRM_1	60,1	1,30E-16	CL0221
TRINITY_DN19326_c2_g1::TRINITY_DN19326_c2_g1_i5::g.116051::m.116051	5	6,3	119,13	10,639	PF13802.5	Gal_mutarotas_2	53	3,00E-14	CL0103
TRINITY_DN19330_c0_g1::TRINITY_DN19330_c0_g1_i8::g.116161::m.116161	2	29	10,98	5,8936	PF03143.16	GTP_EFTU_D3	97,9	3,90E-28	No_clan
TRINITY_DN19330_c0_g3::TRINITY_DN19330_c0_g3_i6::g.116162::m.116162	11	31	39,21	29,445	PF00009.26	GTP_EFTU	179,8	3,90E-53	CL0023
TRINITY_DN19332_c1_g1::TRINITY_DN19332_c1_g1_i1::g.116126::m.116126	5	15	53,508	12,344	PF00478.24	IMPDH	404,1	4,20E-121	CL0036
TRINITY_DN19332_c2_g1::TRINITY_DN19332_c2_g1_i2::g.116131::m.116131	8	18,7	51,717	22,449	PF04043.14	PMEI	89,6	2,30E-25	No_clan
TRINITY_DN19332_c2_g5::TRINITY_DN19332_c2_g5_i3::g.116136::m.116136	6	26,1	26,714	44,498	PF00857.19	Isochorismatase	115	4,00E-33	No_clan
TRINITY_DN19333_c1_g1::TRINITY_DN19333_c1_g1_i1::g.116168::m.116168	2	3,6	78,707	3,6009	PF00501.27	AMP-binding	133,5	7,20E-39	CL0378
TRINITY_DN19335_c0_g3::TRINITY_DN19335_c0_g3_i4::g.116290::m.116290	1	5,7	20,158	1,9028	PF01095.18	Pectinesterase	127,4	4,00E-37	CL0268
TRINITY_DN19343_c7_g1::TRINITY_DN19343_c7_g1_i3::g.116415::m.116415	1	4,8	23,449	2,8807	PF01373.16	Glyco_hydro_14	216,9	4,10E-64	CL0058
TRINITY_DN19343_c7_g2::TRINITY_DN19343_c7_g2_i2::g.116418::m.116418	1	11,7	11,589	2,5843	PF01373.16	Glyco_hydro_14	106	1,90E-30	CL0058
TRINITY_DN19344_c5_g1::TRINITY_DN19344_c5_g1_i3::g.115614::m.115614	5	26,5	28,688	11,209	PF07839.10	CaM_binding	67,4	1,60E-18	No_clan
TRINITY_DN19344_c5_g1::TRINITY_DN19344_c5_g1_i8::g.115623::m.115623	1	13,8	12,02	2,1965					
TRINITY_DN19344_c5_g2::TRINITY_DN19344_c5_g2_i3::g.115627::m.115627	2	9,3	21,371	3,475					
TRINITY_DN19345_c3_g1::TRINITY_DN19345_c3_g1_i6::g.117087::m.117087	1	19,3	12,509	3,7877					
TRINITY_DN19354_c2_g2::TRINITY_DN19354_c2_g2_i9::g.116448::m.116448	8	51,8	22,46	164,37	PF02798.19	GST_N	63,3	1,80E-17	CL0172
TRINITY_DN19354_c2_g2::TRINITY_DN19354_c2_g2_i8::g.116447::m.116447	10	63,4	19,189	115,03	PF02798.19	GST_N	32,7	6,60E-08	CL0172
TRINITY_DN19354_c2_g2::TRINITY_DN19354_c2_g2_i2::g.116436::m.116436	8	71,6	14,972	5,7339	PF00043.24	GST_C	54	1,30E-14	CL0497
TRINITY_DN19356_c0_g4::TRINITY_DN19356_c0_g4_i8::g.116588::m.116588	1	4,2	30,031	2,3998	PF16076.4	Acyltransf_C	69,4	2,00E-19	No_clan

TRINITY_DN19358_c6_g3::TRINITY_DN19358_c6_g3_i5::g.116477::m.116477	2	21,6	18,538	7,4551	PF05721.12	PhyH	139,7	1,50E-40	CL0029
TRINITY_DN19361_c0_g1::TRINITY_DN19361_c0_g1_i10::g.117059::m.117059	2	1,3	149,18	1,9343	PF04931.12	DNA_pol_phi	646	7,20E-194	No_clan
TRINITY_DN19366_c1_g3::TRINITY_DN19366_c1_g3_i1::g.116912::m.116912	2	13,3	13,917	4,4711	PF01248.25	Ribosomal_L7Ae	91,9	1,50E-26	CL0101
TRINITY_DN19372_c1_g1::TRINITY_DN19372_c1_g1_i2::g.116684::m.116684	7	17,5	59,117	17,447	PF00501.27	AMP-binding	312,6	3,00E-93	CL0378
TRINITY_DN19377_c2_g2::TRINITY_DN19377_c2_g2_i2::g.116852::m.116852	2	11,6	26,067	7,5869					
TRINITY_DN19379_c0_g1::TRINITY_DN19379_c0_g1_i4::g.116795::m.116795	11	17,7	72,743	1,9944	PF00012.19	HSP70	878,9	1,30E-264	CL0108
TRINITY_DN19385_c2_g1::TRINITY_DN19385_c2_g1_i11::g.117072::m.117072	2	9,9	31,842	4,5851	PF04842.11	DUF639	157,4	3,40E-46	No_clan
TRINITY_DN19385_c2_g1::TRINITY_DN19385_c2_g1_i5::g.117068::m.117068	1	7,5	19,458	2,4517					
TRINITY_DN19385_c2_g1::TRINITY_DN19385_c2_g1_i13::g.117074::m.117074	1	8,3	17,307	1,9971					
TRINITY_DN19385_c2_g2::TRINITY_DN19385_c2_g2_i1::g.117065::m.117065	2	15,1	13,369	5,6207					
TRINITY_DN19388_c2_g2::TRINITY_DN19388_c2_g2_i2::g.117003::m.117003	1	6,2	22,668	4,8923	PF07859.12	Abhydrolase_3	121	5,60E-35	CL0028
TRINITY_DN19390_c1_g1::TRINITY_DN19390_c1_g1_i8::g.117167::m.117167	1	1,2	138,67	2,5924	PF00664.22	ABC_membrane	80	2,00E-22	CL0241
TRINITY_DN19395_c0_g1::TRINITY_DN19395_c0_g1_i9::g.117248::m.117248	5	58,5	14,106	150,62	PF00407.18	Bet_v_1	69,4	2,90E-19	CL0209
TRINITY_DN19395_c1_g2::TRINITY_DN19395_c1_g2_i1::g.117249::m.117249	2	25,4	12,833	6,7098	PF14008.5	Metallophos_C	66,1	3,40E-18	No_clan
TRINITY_DN19395_c1_g4::TRINITY_DN19395_c1_g4_i2::g.117259::m.117259	1	3,7	53,309	3,3303	PF16656.4	Pur_ac_phosph_N	71,8	5,00E-20	CL0159
TRINITY_DN19396_c1_g1::TRINITY_DN19396_c1_g1_i8::g.116313::m.116313	22	32,1	119,55	109,94	PF00664.22	ABC_membrane	87,8	8,40E-25	CL0241
TRINITY_DN19396_c1_g2::TRINITY_DN19396_c1_g2_i11::g.116356::m.116356	20	29,6	111,28	4,8261	PF00664.22	ABC_membrane	181,5	2,40E-53	CL0241
TRINITY_DN19401_c0_g3::TRINITY_DN19401_c0_g3_i5::g.116386::m.116386	1	6	27,787	1,8857	PF00076.21	RRM_1	51,4	6,80E-14	CL0221
TRINITY_DN19405_c0_g1::TRINITY_DN19405_c0_g1_i2::g.117368::m.117368	2	13	31,419	2,2529					
TRINITY_DN19405_c2_g1::TRINITY_DN19405_c2_g1_i12::g.117378::m.117378	8	35,6	29,629	202,54	PF01370.20	Epimerase	51,6	7,80E-14	CL0063
TRINITY_DN19409_c5_g1::TRINITY_DN19409_c5_g1_i1::g.117472::m.117472	2	28,9	13,914	23,611	PF03080.14	Neprosin	72,2	3,80E-20	No_clan

TRINITY_DN19409_c5_g5::TRINITY_DN19409_c5_g5_i2::g.117475::m.117475	3	51,5	11,254	7,6393	PF03080.14	Neprosin	111,1	4,80E-32	No_clan
TRINITY_DN19413_c0_g2::TRINITY_DN19413_c0_g2_i1::g.117446::m.117446	1	7,7	23,72	2,7441	PF00085.19	Thioredoxin	31,5	1,20E-07	CL0172
TRINITY_DN19415_c0_g3::TRINITY_DN19415_c0_g3_i1::g.117477::m.117477	5	39,5	19,825	15,568	PF00182.18	Glyco_hydro_19	185,6	1,20E-54	CL0037
TRINITY_DN19418_c2_g1::TRINITY_DN19418_c2_g1_i2::g.117511::m.117511	4	4,8	151,91	7,709	PF04548.15	AIG1	73,7	1,20E-20	CL0023
TRINITY_DN19418_c3_g2::TRINITY_DN19418_c3_g2_i3::g.117519::m.117519	1	11,5	14,432	3,1523	PF00111.26	Fer2	47,9	9,20E-13	CL0486
TRINITY_DN19420_c3_g1::TRINITY_DN19420_c3_g1_i7::g.117669::m.117669	3	30,4	13,406	11,795	PF00238.18	Ribosomal_L14	123,3	5,00E-36	No_clan
TRINITY_DN19422_c2_g1::TRINITY_DN19422_c2_g1_i9::g.117599::m.117599	6	18,8	33,503	11,463	PF00153.26	Mito_carr	73,5	9,10E-21	No_clan
TRINITY_DN19425_c1_g1::TRINITY_DN19425_c1_g1_i1::g.117994::m.117994	3	12	35,458	7,0154					
TRINITY_DN19434_c0_g1::TRINITY_DN19434_c0_g1_i3::g.117932::m.117932	4	21,5	33,506	10,762	PF01429.18	MBD	39	4,30E-10	CL0081
TRINITY_DN19434_c1_g1::TRINITY_DN19434_c1_g1_i6::g.117945::m.117945	2	15,7	18,077	4,3008	PF09177.10	Syntaxin-6_N	82,9	1,70E-23	No_clan
TRINITY_DN19434_c2_g3::TRINITY_DN19434_c2_g3_i2::g.117952::m.117952	12	23,4	69,283	25,805	PF01266.23	DAO	182,2	2,00E-53	CL0063
TRINITY_DN19436_c2_g1::TRINITY_DN19436_c2_g1_i4::g.118041::m.118041	9	27,1	52,04	92,832	PF07944.11	Glyco_hydro_127	298,5	7,40E-89	CL0059
TRINITY_DN19436_c2_g2::TRINITY_DN19436_c2_g2_i1::g.118043::m.118043	4	49,5	10,635	16,09	PF07944.11	Glyco_hydro_127	69,9	1,40E-19	CL0059
TRINITY_DN19436_c2_g3::TRINITY_DN19436_c2_g3_i1::g.118048::m.118048	3	38,6	12,222	261,39					
TRINITY_DN19439_c3_g1::TRINITY_DN19439_c3_g1_i7::g.118339::m.118339	3	10,8	43,023	4,5733	PF01417.19	ENTH	155,5	5,90E-46	CL0009
TRINITY_DN19440_c4_g2::TRINITY_DN19440_c4_g2_i10::g.117992::m.117992	6	34,6	29,045	33,671	PF00085.19	Thioredoxin	115,4	9,00E-34	CL0172
TRINITY_DN19441_c2_g1::TRINITY_DN19441_c2_g1_i3::g.118113::m.118113	3	6,3	65,008	3,6173	PF13890.5	Rab3-GTPase_cat	185,7	4,40E-55	No_clan
TRINITY_DN19442_c0_g2::TRINITY_DN19442_c0_g2_i3::g.118018::m.118018	3	9,5	51,662	12,295	PF03952.15	Enolase_N	182,8	2,70E-54	CL0227
TRINITY_DN19447_c1_g1::TRINITY_DN19447_c1_g1_i4::g.118090::m.118090	6	13,5	73,765	12,327	PF06045.10	Rhamnogal_lyase	305,3	1,70E-91	CL0103
TRINITY_DN19453_c0_g2::TRINITY_DN19453_c0_g2_i2::g.118209::m.118209	2	5,8	47,479	4,3162	PF01204.17	Trehalase	518,8	1,50E-155	CL0059
TRINITY_DN19454_c4_g2::TRINITY_DN19454_c4_g2_i2::g.118225::m.118225	5	14,6	39,625	9,3708					

TRINITY_DN19462_c2_g2::TRINITY_DN19462_c2_g2_i5::g.118383::m.118383	2	1,4	209,99	2,5693	PF00613.19	PI3Ka	71,3	5,90E-20	CL0020
TRINITY_DN19464_c2_g1::TRINITY_DN19464_c2_g1_i6::g.118273::m.118273	8	38,5	28,545	18,72	PF00244.19	14.03.2003	323,7	4,60E-97	No_clan
TRINITY_DN19464_c2_g1::TRINITY_DN19464_c2_g1_i8::g.118275::m.118275	6	24,6	28,511	2,0607	PF00244.19	14.03.2003	324,8	2,10E-97	No_clan
TRINITY_DN19468_c2_g2::TRINITY_DN19468_c2_g2_i2::g.118324::m.118324	2	18,4	19,848	6,5968	PF05091.11	eIF-3_zeta	242	1,40E-71	CL0236
TRINITY_DN19468_c2_g5::TRINITY_DN19468_c2_g5_i1::g.118327::m.118327	4	46,2	12,108	99,209	PF05091.11	eIF-3_zeta	162,8	1,40E-47	CL0236
TRINITY_DN19471_c0_g1::TRINITY_DN19471_c0_g1_i4::g.118445::m.118445	1	7,8	23,267	4,8297	PF01545.20	Cation_efflux	36,3	4,30E-09	No_clan
TRINITY_DN19475_c9_g1::TRINITY_DN19475_c9_g1_i7::g.118616::m.118616	7	43,1	21,44	323,31	PF00082.21	Peptidase_S8	50,5	1,60E-13	No_clan
TRINITY_DN19475_c9_g3::TRINITY_DN19475_c9_g3_i3::g.118615::m.118615	7	24	28,682	323,31	PF00082.21	Peptidase_S8	58,4	6,30E-16	No_clan
TRINITY_DN19482_c6_g1::TRINITY_DN19482_c6_g1_i8::g.118606::m.118606	2	16,1	23,285	5,665	PF04134.11	DUF393	77,9	1,30E-21	No_clan
TRINITY_DN19485_c0_g1::TRINITY_DN19485_c0_g1_i9::g.118686::m.118686	1	3	50,87	2,0249	PF16187.4	Peptidase_M16_M	218,6	9,10E-65	CL0094
TRINITY_DN19486_c1_g2::TRINITY_DN19486_c1_g2_i2::g.118619::m.118619	3	10,2	42,142	5,4907	PF07946.13	DUF1682	263,1	3,20E-78	No_clan
TRINITY_DN19493_c1_g1::TRINITY_DN19493_c1_g1_i9::g.118079::m.118079	2	7,8	28,735	3,2106	PF03171.19	2OG-FeII_Oxy	85,2	3,30E-24	CL0029
TRINITY_DN19496_c3_g4::TRINITY_DN19496_c3_g4_i2::g.118720::m.118720	5	25,9	18,55	166,73	PF04043.14	PMEI	46,9	3,20E-12	No_clan
TRINITY_DN19497_c1_g4::TRINITY_DN19497_c1_g4_i2::g.118818::m.118818	1	5,3	45,206	2,1186	PF01554.17	MatE	108	3,40E-31	CL0222
TRINITY_DN19502_c1_g3::TRINITY_DN19502_c1_g3_i5::g.118942::m.118942	2	2,4	155,98	4,4465	PF14288.5	FKS1_dom1	139,2	5,10E-41	No_clan
TRINITY_DN19511_c1_g1::TRINITY_DN19511_c1_g1_i3::g.119032::m.119032	5	13,4	54,398	14,651	PF10602.8	RPN7	190,6	1,60E-56	CL0020
TRINITY_DN19511_c2_g3::TRINITY_DN19511_c2_g3_i2::g.119040::m.119040	2	11,6	18,635	3,9464	PF01157.17	Ribosomal_L21e	148,7	3,20E-44	CL0107
TRINITY_DN19518_c0_g1::TRINITY_DN19518_c0_g1_i2::g.119121::m.119121	6	22,9	38,173	20,704	PF00248.20	Aldo_ket_red	246	4,00E-73	No_clan
TRINITY_DN19518_c0_g1::TRINITY_DN19518_c0_g1_i8::g.119129::m.119129	5	26,1	21,961	7,5276	PF00248.20	Aldo_ket_red	150,6	4,80E-44	No_clan
TRINITY_DN19518_c0_g1::TRINITY_DN19518_c0_g1_i9::g.119130::m.119130	4	33,6	16,443	2,7634	PF00248.20	Aldo_ket_red	127,8	4,20E-37	No_clan
TRINITY_DN19519_c0_g1::TRINITY_DN19519_c0_g1_i10::g.119145::m.119145	1	5,9	25,857	2,3192	PF00514.22	Arm	27,7	1,70E-06	CL0020
TRINITY_DN19522_c5_g1::TRINITY_DN19522_c5_g1_i5::g.119202::m.119202	2	14,9	21,761	3,5121	PF00795.21	CN_hydrolase	158,5	1,80E-46	No_clan

TRINITY_DN19529_c1_g2::TRINITY_DN19529_c1_g2_i5::g.119243::m.119243	1	2	49,699	1,8812	PF03547.17	Mem_trans	313,1	1,60E-93	CL0064
TRINITY_DN19530_c3_g1::TRINITY_DN19530_c3_g1_i3::g.119253::m.119253	12	21,2	80,564	113,75	PF13510.5	Fer2_4	66,2	1,80E-18	CL0486
TRINITY_DN19531_c0_g1::TRINITY_DN19531_c0_g1_i3::g.119625::m.119625	2	2,2	246,05	2,3215	PF12234.7	Rav1p_C	252,3	8,80E-75	No_clan
TRINITY_DN19535_c2_g2::TRINITY_DN19535_c2_g2_i7::g.119393::m.119393	4	22,6	31,515	18,278	PF08241.11	Methyltransf_11	73,5	1,50E-20	CL0063
TRINITY_DN19535_c3_g1::TRINITY_DN19535_c3_g1_i2::g.119402::m.119402	1	13,5	21,497	62,765	PF00481.20	PP2C	48,3	9,40E-13	CL0238
TRINITY_DN19544_c2_g6::TRINITY_DN19544_c2_g6_i1::g.119552::m.119552	1	9,9	14,044	2,241	PF01198.18	Ribosomal_L31e	141,4	7,40E-42	No_clan
TRINITY_DN19548_c1_g1::TRINITY_DN19548_c1_g1_i5::g.119761::m.119761	3	15,2	33,805	12,553					
TRINITY_DN19548_c2_g6::TRINITY_DN19548_c2_g6_i1::g.119771::m.119771	1	7,2	21,427	2,0987	PF01554.17	MatE	83,6	1,10E-23	CL0222
TRINITY_DN19551_c4_g1::TRINITY_DN19551_c4_g1_i4::g.119678::m.119678	6	52,4	13,042	323,31					
TRINITY_DN19551_c4_g4::TRINITY_DN19551_c4_g4_i1::g.119681::m.119681	13	55,5	34,11	-2	PF00004.28	AAA	86,9	1,40E-24	CL0023
TRINITY_DN19552_c1_g2::TRINITY_DN19552_c1_g2_i2::g.119657::m.119657	2	10,9	29,454	8,2272	PF00155.20	Aminotran_1_2	100,4	1,10E-28	CL0061
TRINITY_DN19556_c1_g1::TRINITY_DN19556_c1_g1_i8::g.119918::m.119918	2	21,4	13,947	2,0658					
TRINITY_DN19559_c2_g2::TRINITY_DN19559_c2_g2_i6::g.119806::m.119806	1	8	15,013	2,4785	PF03959.12	FSH1	99,1	2,40E-28	CL0028
TRINITY_DN19562_c2_g5::TRINITY_DN19562_c2_g5_i1::g.119826::m.119826	1	2,9	41,262	2,3906	PF00012.19	HSP70	421,3	4,60E-126	CL0108
TRINITY_DN19563_c2_g1::TRINITY_DN19563_c2_g1_i4::g.120333::m.120333	28	34,7	107,74	225,74	PF00626.21	Gelsolin	60,8	7,90E-17	CL0092
TRINITY_DN19568_c0_g1::TRINITY_DN19568_c0_g1_i11::g.119880::m.119880	3	4,1	107,03	4,0655	PF00675.19	Peptidase_M16	116,7	7,80E-34	CL0094
TRINITY_DN19569_c1_g4::TRINITY_DN19569_c1_g4_i1::g.119978::m.119978	1	7,5	28,271	3,7847					
TRINITY_DN19570_c1_g1::TRINITY_DN19570_c1_g1_i2::g.119952::m.119952	5	28,9	28,493	24,143	PF13561.5	adh_short_C2	209	6,70E-62	CL0063
TRINITY_DN19576_c0_g1::TRINITY_DN19576_c0_g1_i3::g.120043::m.120043	7	24,4	43,418	19,908	PF00155.20	Aminotran_1_2	178	2,90E-52	CL0061
TRINITY_DN19577_c3_g1::TRINITY_DN19577_c3_g1_i6::g.120109::m.120109	1	8,5	17,485	2,4193	PF06708.10	DUF1195	257,8	2,20E-77	No_clan
TRINITY_DN19578_c1_g1::TRINITY_DN19578_c1_g1_i9::g.120079::m.120079	1	2,8	60,895	2,9268					

TRINITY_DN19578_c1_g1::TRINITY_DN19578_c1_g1_i2::g.120062::m.120062	10	16,2	91,66	18,245					
TRINITY_DN19579_c1_g1::TRINITY_DN19579_c1_g1_i2::g.120372::m.120372	3	9,4	52,946	16,195	PF00696.27	AA_kinase	135	2,80E-39	No_clan
TRINITY_DN19579_c1_g3::TRINITY_DN19579_c1_g3_i1::g.120400::m.120400	4	26,4	30,04	9,7578	PF00696.27	AA_kinase	126,7	9,80E-37	No_clan
TRINITY_DN19581_c3_g6::TRINITY_DN19581_c3_g6_i4::g.120132::m.120132	1	10	12,252	2,4619	PF03179.14	V-ATPase_G	116,6	6,20E-34	CL0255
TRINITY_DN19582_c3_g2::TRINITY_DN19582_c3_g2_i4::g.120114::m.120114	8	38,5	28,509	3,8442	PF01095.18	Pectinesterase	169,3	7,30E-50	CL0268
TRINITY_DN19582_c3_g2::TRINITY_DN19582_c3_g2_i6::g.120115::m.120115	8	33,5	27,743	323,31	PF01095.18	Pectinesterase	175	1,30E-51	CL0268
TRINITY_DN19587_c1_g2::TRINITY_DN19587_c1_g2_i1::g.120316::m.120316	3	14,6	36,225	32,001	PF00240.22	ubiquitin	52,3	3,30E-14	CL0072
TRINITY_DN19588_c6_g1::TRINITY_DN19588_c6_g1_i5::g.120209::m.120209	13	29,2	56,559	45,71	PF00285.20	Citrate_synt	443,2	6,30E-133	No_clan
TRINITY_DN19589_c2_g2::TRINITY_DN19589_c2_g2_i4::g.120311::m.120311	1	11,7	25,143	5,8626	PF00109.25	ketoacyl-synt	71,7	6,30E-20	CL0046
TRINITY_DN19589_c2_g2::TRINITY_DN19589_c2_g2_i4::g.120310::m.120310	3	11,7	45,551	11,737	PF00109.25	ketoacyl-synt	194,3	2,40E-57	CL0046
TRINITY_DN19595_c1_g1::TRINITY_DN19595_c1_g1_i3::g.120443::m.120443	2	28,2	11,455	4,5761	PF04137.14	ERO1	99,2	2,70E-28	No_clan
TRINITY_DN19596_c0_g2::TRINITY_DN19596_c0_g2_i1::g.120414::m.120414	9	23,1	53,422	49,875	PF00378.19	ECH_1	124,7	3,60E-36	CL0127
TRINITY_DN19596_c1_g1::TRINITY_DN19596_c1_g1_i8::g.120430::m.120430	4	20,8	31,155	67,168	PF00450.21	Peptidase_S10	252,5	9,30E-75	CL0028
TRINITY_DN19604_c2_g1::TRINITY_DN19604_c2_g1_i2::g.120755::m.120755	7	36,3	22,021	50,034	PF00759.18	Glyco_hydro_9	233,8	4,20E-69	CL0059
TRINITY_DN19604_c2_g3::TRINITY_DN19604_c2_g3_i3::g.120758::m.120758	7	57	14,112	323,31	PF00759.18	Glyco_hydro_9	89,1	3,80E-25	CL0059
TRINITY_DN19605_c0_g3::TRINITY_DN19605_c0_g3_i3::g.120913::m.120913	11	37,9	50,582	33,091	PF00183.17	HSP90	564,3	2,60E-169	No_clan
TRINITY_DN19606_c0_g1::TRINITY_DN19606_c0_g1_i15::g.121023::m.121023	6	39,8	22,413	156,58	PF00291.24	PALP	180,7	3,90E-53	No_clan
TRINITY_DN19606_c0_g1::TRINITY_DN19606_c0_g1_i4::g.121009::m.121009	5	30,3	25,137	2,4464	PF00291.24	PALP	162,5	1,30E-47	No_clan
TRINITY_DN19611_c0_g2::TRINITY_DN19611_c0_g2_i9::g.121074::m.121074	5	15,8	43,33	4,9237	PF00076.21	RRM_1	59,4	2,00E-16	CL0221
TRINITY_DN19612_c0_g2::TRINITY_DN19612_c0_g2_i5::g.120800::m.120800	2	15,4	18,983	3,0386	PF05755.11	REF	219	5,30E-65	No_clan
TRINITY_DN19612_c1_g2::TRINITY_DN19612_c1_g2_i9::g.120821::m.120821	11	42,4	38,049	20,946	PF03141.15	Methyltransf_29	413,5	1,00E-123	CL0063

TRINITY_DN19612_c1_g2::TRINITY_DN19612_c1_g2_i9::g.120822::m.120822	3	10,9	35,147	5,0534	PF03141.15	Methyltransf_29	325,5	4,80E-97	CL0063
TRINITY_DN19612_c1_g2::TRINITY_DN19612_c1_g2_i7::g.120818::m.120818	3	21,2	22,722	-2	PF03141.15	Methyltransf_29	233,1	4,90E-69	CL0063
TRINITY_DN19613_c2_g1::TRINITY_DN19613_c2_g1_i4::g.120850::m.120850	2	16,2	20,748	11,037	PF14533.5	USP7_C2	147,3	4,50E-43	CL0072
TRINITY_DN19613_c2_g2::TRINITY_DN19613_c2_g2_i3::g.120856::m.120856	2	8,9	36,918	3,6003	PF12436.7	USP7_ICP0_bdg	146,2	9,70E-43	CL0072
TRINITY_DN19614_c2_g7::TRINITY_DN19614_c2_g7_i3::g.120831::m.120831	3	13,8	33,929	7,0682	PF03195.13	LOB	137,5	1,60E-40	No_clan
TRINITY_DN19615_c0_g1::TRINITY_DN19615_c0_g1_i7::g.122149::m.122149	12	13	114,3	20,322	PF13202.5	EF-hand_5	16,6	0,0037	CL0220
TRINITY_DN19616_c4_g3::TRINITY_DN19616_c4_g3_i5::g.120935::m.120935	5	5,9	148,64	9,1928					
TRINITY_DN19617_c3_g2::TRINITY_DN19617_c3_g2_i1::g.121264::m.121264	9	51,2	27,305	323,31	PF00294.23	PfkB	158,6	2,00E-46	CL0118
TRINITY_DN19617_c3_g3::TRINITY_DN19617_c3_g3_i8::g.121273::m.121273	6	60,1	16,159	208,33	PF00294.23	PfkB	84,4	7,60E-24	CL0118
TRINITY_DN19621_c4_g1::TRINITY_DN19621_c4_g1_i2::g.120970::m.120970	1	4,2	32,657	-2	PF00487.23	FA_desaturase	40,1	3,30E-10	No_clan
TRINITY_DN19621_c6_g3::TRINITY_DN19621_c6_g3_i2::g.120980::m.120980	3	2,9	133,61	3,5115	PF11817.7	Foie-gras_1	229,8	3,70E-68	CL0020
TRINITY_DN19625_c0_g5::TRINITY_DN19625_c0_g5_i9::g.121168::m.121168	1	5	43,815	2,3366					
TRINITY_DN19627_c1_g1::TRINITY_DN19627_c1_g1_i1::g.121154::m.121154	12	20,1	87,75	25,069	PF00133.21	tRNA-synt_1	72	2,90E-20	CL0039
TRINITY_DN19627_c1_g1::TRINITY_DN19627_c1_g1_i2::g.121157::m.121157	12	20,1	87,725	5,5603	PF00133.21	tRNA-synt_1	72	2,90E-20	CL0039
TRINITY_DN19627_c1_g2::TRINITY_DN19627_c1_g2_i4::g.121159::m.121159	4	18,8	36,486	10,529	PF00133.21	tRNA-synt_1	36,3	1,80E-09	CL0039
TRINITY_DN19628_c3_g1::TRINITY_DN19628_c3_g1_i3::g.121141::m.121141	6	43,4	28,106	76,501	PF03951.18	Gln-synt_N	40,5	1,60E-10	No_clan
TRINITY_DN19634_c0_g1::TRINITY_DN19634_c0_g1_i18::g.121436::m.121436	9	4,7	316,62	21,995	PF15787.4	DUF4704	167,1	4,40E-49	No_clan
TRINITY_DN19639_c3_g1::TRINITY_DN19639_c3_g1_i7::g.121291::m.121291	2	19,4	11,265	2,0288	PF01132.19	EFP	53,2	2,10E-14	CL0021
TRINITY_DN19643_c4_g1::TRINITY_DN19643_c4_g1_i10::g.121539::m.121539	4	11,9	49,187	6,6278	PF00394.21	Cu-oxidase	154,8	1,80E-45	CL0026
TRINITY_DN19651_c4_g1::TRINITY_DN19651_c4_g1_i17::g.121374::m.121374	3	12,5	32,012	60,608	PF02878.15	PGM_PMM_I	24,3	1,90E-05	No_clan
TRINITY_DN19652_c2_g1::TRINITY_DN19652_c2_g1_i9::g.121472::m.121472	3	6,6	91,983	8,1584	PF06972.10	DUF1296	110,5	2,90E-32	CL0214
TRINITY_DN19655_c2_g1::TRINITY_DN19655_c2_g1_i11::g.121761::m.121761	7	33,3	38,712	24,075	PF00004.28	AAA	147,3	2,90E-43	CL0023

TRINITY_DN19665_c1_g1::TRINITY_DN19665_c1_g1_i7::g.121863::m.121863	7	10,1	93,295	10,333	PF00004.28	AAA	128,1	2,60E-37	CL0023
TRINITY_DN19669_c1_g1::TRINITY_DN19669_c1_g1_i10::g.121794::m.121794	4	36,2	16,351	27,691	PF01738.17	DLH	137,4	4,60E-40	CL0028
TRINITY_DN19683_c4_g2::TRINITY_DN19683_c4_g2_i1::g.121928::m.121928	1	4,6	41,629	18,209	PF01603.19	B56	456,7	6,80E-137	CL0020
TRINITY_DN19694_c1_g1::TRINITY_DN19694_c1_g1_i14::g.120695::m.120695	4	2,1	237,76	4,7166	PF00310.20	GATase_2	609,1	3,30E-183	CL0052
TRINITY_DN19696_c3_g4::TRINITY_DN19696_c3_g4_i1::g.122257::m.122257	14	36	59,628	271,96	PF00330.19	Aconitase	406	2,10E-121	No_clan
TRINITY_DN19704_c0_g1::TRINITY_DN19704_c0_g1_i3::g.122553::m.122553	1	13,9	15,013	4,8073	PF00355.25	Rieske	46,6	2,30E-12	CL0516
TRINITY_DN19704_c0_g2::TRINITY_DN19704_c0_g2_i1::g.122551::m.122551	3	23,3	18,031	28,817	PF02921.13	UCR_TM	35,3	1,10E-08	CL0300
TRINITY_DN19704_c1_g1::TRINITY_DN19704_c1_g1_i9::g.122571::m.122571	14	18	105,94	37,429	PF01602.19	Adaptin_N	296,3	3,60E-88	CL0020
TRINITY_DN19709_c5_g1::TRINITY_DN19709_c5_g1_i3::g.122591::m.122591	4	5,9	96,402	5,9888	PF00221.18	Lyase_aromatic	31,6	6,50E-08	No_clan
TRINITY_DN19710_c5_g3::TRINITY_DN19710_c5_g3_i4::g.122648::m.122648	12	33,1	55,196	247,82	PF03009.16	GDPD	87,5	1,10E-24	CL0384
TRINITY_DN19711_c3_g1::TRINITY_DN19711_c3_g1_i1::g.122630::m.122630	12	46,8	40,808	70,748	PF07992.13	Pyr_redox_2	163,6	5,50E-48	CL0063
TRINITY_DN19711_c5_g2::TRINITY_DN19711_c5_g2_i2::g.122643::m.122643	3	25,8	17,523	5,0776	PF01263.19	Aldose_epim	168,6	1,80E-49	CL0103
TRINITY_DN19714_c6_g2::TRINITY_DN19714_c6_g2_i2::g.122726::m.122726	3	7,1	45,063	4,3564	PF12819.6	Malectin_like	144,5	3,90E-42	CL0468
TRINITY_DN19715_c1_g1::TRINITY_DN19715_c1_g1_i2::g.122707::m.122707	12	16,4	110,87	36,089	PF12515.7	CaATP_NAI	71	4,30E-20	No_clan
TRINITY_DN19717_c0_g1::TRINITY_DN19717_c0_g1_i2::g.122513::m.122513	4	10,4	47,075	5,898	PF16491.4	Peptidase_M48_N	225,3	4,80E-67	No_clan
TRINITY_DN19720_c2_g1::TRINITY_DN19720_c2_g1_i1::g.122728::m.122728	1	11,3	15,188	2,8069	PF02705.15	K_trans	82,4	2,30E-23	CL0062
TRINITY_DN19723_c2_g1::TRINITY_DN19723_c2_g1_i1::g.122855::m.122855	2	16,7	15,669	5,5426	PF13649.5	Methyltransf_25	40,7	2,80E-10	CL0063
TRINITY_DN19723_c2_g3::TRINITY_DN19723_c2_g3_i3::g.122857::m.122857	10	43,3	28,197	232,84	PF13847.5	Methyltransf_31	75,7	3,00E-21	CL0063
TRINITY_DN19723_c2_g3::TRINITY_DN19723_c2_g3_i8::g.122861::m.122861	7	31,7	21,436	2,1918	PF13489.5	Methyltransf_23	70,5	1,30E-19	CL0063
TRINITY_DN19730_c4_g2::TRINITY_DN19730_c4_g2_i8::g.122947::m.122947	7	20	48,706	9,452	PF00270.28	DEAD	172	9,20E-51	CL0023
TRINITY_DN19733_c2_g1::TRINITY_DN19733_c2_g1_i4::g.123110::m.123110	3	2,6	130,54	3,7696	PF00664.22	ABC_membrane	58,6	7,00E-16	CL0241

TRINITY_DN19745_c0_g1::TRINITY_DN19745_c0_g1_i7::g.123245::m.123245	13	20,5	91,333	94,728	PF09334.10	tRNA-synt_1g	508,4	1,00E-152	CL0039
TRINITY_DN19748_c4_g1::TRINITY_DN19748_c4_g1_i8::g.123188::m.123188	5	7,5	93,789	8,5337					
TRINITY_DN19751_c2_g1::TRINITY_DN19751_c2_g1_i6::g.123209::m.123209	12	35,6	48,437	97,231	PF00108.22	Thiolase_N	268,7	4,30E-80	CL0046
TRINITY_DN19770_c1_g4::TRINITY_DN19770_c1_g4_i6::g.123393::m.123393	3	14,6	23,684	5,4089	PF00481.20	PP2C	90,2	1,50E-25	CL0238
TRINITY_DN19775_c0_g3::TRINITY_DN19775_c0_g3_i2::g.123476::m.123476	2	11,3	21,887	3,3075	PF00464.18	SHMT	209,7	4,90E-62	CL0061
TRINITY_DN19775_c1_g1::TRINITY_DN19775_c1_g1_i3::g.123478::m.123478	3	3,2	163	12,318	PF08801.10	Nucleoporin_N	278,6	7,40E-83	CL0186
TRINITY_DN19779_c3_g1::TRINITY_DN19779_c3_g1_i9::g.123559::m.123559	3	24,2	21,053	10,192	PF00152.19	tRNA-synt_2	114,4	5,10E-33	CL0040
TRINITY_DN19779_c3_g1::TRINITY_DN19779_c3_g1_i9::g.123558::m.123558	4	14,3	43,164	20,519	PF01336.24	tRNA_anti-codon	50,8	1,10E-13	CL0021
TRINITY_DN19779_c3_g3::TRINITY_DN19779_c3_g3_i2::g.123543::m.123543	3	14,8	26,758	16,725	PF00071.21	Ras	218	4,70E-65	CL0023
TRINITY_DN19781_c5_g1::TRINITY_DN19781_c5_g1_i1::g.123563::m.123563	6	22	46,355	123,02	PF01399.26	PCI	47	2,70E-12	CL0123
TRINITY_DN19783_c1_g1::TRINITY_DN19783_c1_g1_i4::g.123602::m.123602	4	21	29,441	7,112	PF00155.20	Aminotran_1_2	38,5	7,10E-10	CL0061
TRINITY_DN19790_c2_g2::TRINITY_DN19790_c2_g2_i1::g.123647::m.123647	1	11,9	10,995	3,2041	PF05368.12	NmrA	83,7	1,30E-23	CL0063
TRINITY_DN19790_c2_g2::TRINITY_DN19790_c2_g2_i6::g.123649::m.123649	4	43,8	11,598	8,2109	PF05368.12	NmrA	79,7	2,10E-22	CL0063
TRINITY_DN19791_c7_g1::TRINITY_DN19791_c7_g1_i1::g.123736::m.123736	2	6,4	42,156	70,441	PF00450.21	Peptidase_S10	364,3	1,10E-108	CL0028
TRINITY_DN19791_c7_g2::TRINITY_DN19791_c7_g2_i1::g.123738::m.123738	3	23,9	16,184	323,31	PF00450.21	Peptidase_S10	48,3	9,20E-13	CL0028
TRINITY_DN19791_c7_g4::TRINITY_DN19791_c7_g4_i2::g.123739::m.123739	1	19,2	11,648	7,8911	PF00450.21	Peptidase_S10	52	6,60E-14	CL0028
TRINITY_DN19795_c3_g1::TRINITY_DN19795_c3_g1_i8::g.123663::m.123663	2	32,7	12,347	42,584	PF03179.14	V-ATPase_G	104,2	4,60E-30	CL0255
TRINITY_DN19798_c2_g1::TRINITY_DN19798_c2_g1_i2::g.123755::m.123755	1	20,6	11,022	7,2533					
TRINITY_DN19798_c2_g2::TRINITY_DN19798_c2_g2_i18::g.123759::m.123759	6	13,9	65,23	12,828	PF02933.16	CDC48_2	25,1	1,10E-05	CL0402
TRINITY_DN19798_c2_g2::TRINITY_DN19798_c2_g2_i9::g.123749::m.123749	5	19	47,1	2,9384	PF00004.28	AAA	130,5	4,80E-38	CL0023
TRINITY_DN19806_c0_g1::TRINITY_DN19806_c0_g1_i11::g.123914::m.123914	1	7,5	38,257	2,265					

TRINITY_DN19809_c1_g1::TRINITY_DN19809_c1_g1_i1::g.124378::m.124378	2	23,6	23,241	4,3083	PF00271.30	Helicase_C	101,6	2,80E-29	CL0023
TRINITY_DN19812_c4_g1::TRINITY_DN19812_c4_g1_i1::g.124051::m.124051	18	50,3	44,439	128,73	PF00012.19	HSP70	446,8	8,70E-134	CL0108
TRINITY_DN19812_c4_g2::TRINITY_DN19812_c4_g2_i2::g.124055::m.124055	7	59,8	12,904	2,9969	PF00012.19	HSP70	158	2,60E-46	CL0108
TRINITY_DN19812_c4_g2::TRINITY_DN19812_c4_g2_i6::g.124061::m.124061	25	50,7	57,298	323,31	PF00012.19	HSP70	774	7,20E-233	CL0108
TRINITY_DN19814_c1_g2::TRINITY_DN19814_c1_g2_i2::g.124101::m.124101	5	34,3	23,59	43,451	PF01293.19	PEPCK_ATP	61,8	4,40E-17	CL0374
TRINITY_DN19814_c1_g3::TRINITY_DN19814_c1_g3_i1::g.124097::m.124097	5	54,2	15,869	1,9234	PF01293.19	PEPCK_ATP	255,9	5,80E-76	CL0374
TRINITY_DN19814_c1_g3::TRINITY_DN19814_c1_g3_i2::g.124100::m.124100	5	39,2	22,703	5,8244	PF01293.19	PEPCK_ATP	255,3	8,90E-76	CL0374
TRINITY_DN19816_c1_g2::TRINITY_DN19816_c1_g2_i10::g.124090::m.124090	1	4,6	28,356	2,7846	PF01583.19	APS_kinase	237,3	6,30E-71	CL0023
TRINITY_DN19816_c1_g2::TRINITY_DN19816_c1_g2_i9::g.124089::m.124089	2	9,5	24,363	2,6472	PF01583.19	APS_kinase	240,3	7,40E-72	CL0023
TRINITY_DN19823_c3_g2::TRINITY_DN19823_c3_g2_i6::g.124233::m.124233	1	2,5	88,488	3,2989	PF08920.9	SF3b1	143,4	3,80E-42	CL0462
TRINITY_DN19829_c1_g1::TRINITY_DN19829_c1_g1_i2::g.124633::m.124633	6	19,7	45,718	11,829	PF07712.11	SURNod19	646,6	9,00E-195	No_clan
TRINITY_DN19839_c2_g3::TRINITY_DN19839_c2_g3_i5::g.123823::m.123823	7	71,6	16,478	110,83	PF00255.18	GSHPx	132	5,40E-39	CL0172
TRINITY_DN19841_c3_g2::TRINITY_DN19841_c3_g2_i9::g.124618::m.124618	9	9,6	132,65	17,374	PF00122.19	E1-E2_ATPase	65,7	3,40E-18	No_clan
TRINITY_DN19844_c1_g2::TRINITY_DN19844_c1_g2_i1::g.124447::m.124447	3	12,4	26,077	4,3663	PF00749.20	tRNA-synt_1c	29,5	3,00E-07	CL0039
TRINITY_DN19844_c1_g3::TRINITY_DN19844_c1_g3_i3::g.124457::m.124457	2	4,6	44,134	2,6881	PF04558.14	tRNA_synt_1c_R1	183,6	2,40E-54	No_clan
TRINITY_DN19846_c6_g1::TRINITY_DN19846_c6_g1_i2::g.124495::m.124495	4	10,1	56,317	8,5949	PF00400.31	WD40	21,2	0,00037	CL0186
TRINITY_DN19846_c6_g2::TRINITY_DN19846_c6_g2_i1::g.124494::m.124494	1	4	35,233	38,515	PF14543.5	TAXi_N	169,8	6,40E-50	CL0129
TRINITY_DN19854_c2_g1::TRINITY_DN19854_c2_g1_i1::g.124554::m.124554	4	13,5	45,27	37,8	PF05470.11	eIF-3c_N	401,7	4,20E-120	No_clan
TRINITY_DN19854_c2_g2::TRINITY_DN19854_c2_g2_i3::g.124560::m.124560	10	23	59,756	44,972	PF05470.11	eIF-3c_N	374	1,10E-111	No_clan
TRINITY_DN19854_c2_g2::TRINITY_DN19854_c2_g2_i4::g.124562::m.124562	2	11,2	25,598	8,3215	PF05470.11	eIF-3c_N	320	2,30E-95	No_clan

TRINITY_DN19860_c5_g1::TRINITY_DN19860_c5_g1_i1::g.124725::m.124725	3	17,4	25,084	2,5769	PF00122.19	E1-E2_ATPase	168,5	9,80E-50	No_clan
TRINITY_DN19864_c2_g6::TRINITY_DN19864_c2_g6_i4::g.124630::m.124630	10	40,3	32,87	116,02	PF00724.19	Oxidored_FMN	236,8	3,40E-70	CL0036
TRINITY_DN19870_c1_g2::TRINITY_DN19870_c1_g2_i5::g.124748::m.124748	2	12,6	19,274	4,0442	PF00696.27	AA_kinase	26,7	3,60E-06	No_clan
TRINITY_DN19873_c6_g5::TRINITY_DN19873_c6_g5_i6::g.124897::m.124897	2	13,6	21,672	2,1374	PF03949.14	Malic_M	224	1,80E-66	CL0063
TRINITY_DN19873_c6_g8::TRINITY_DN19873_c6_g8_i6::g.124910::m.124910	4	17,1	28,436	4,8481	PF00390.18	malic	225	5,50E-67	CL0603
TRINITY_DN19874_c1_g1::TRINITY_DN19874_c1_g1_i2::g.124818::m.124818	1	6,1	21,581	2,241					
TRINITY_DN19877_c2_g3::TRINITY_DN19877_c2_g3_i1::g.125021::m.125021	6	17,3	53,45	10,404	PF01512.16	Complex1_51K	161,8	9,60E-48	CL0105
TRINITY_DN19877_c3_g4::TRINITY_DN19877_c3_g4_i1::g.125024::m.125024	1	11,2	14,344	7,9135	PF00179.25	UQ_con	59,8	2,10E-16	CL0208
TRINITY_DN19879_c1_g2::TRINITY_DN19879_c1_g2_i1::g.125068::m.125068	6	41,1	17,254	323,31	PF00295.16	Glyco_hydro_28	86,1	2,10E-24	CL0268
TRINITY_DN19879_c1_g2::TRINITY_DN19879_c1_g2_i8::g.125070::m.125070	4	53,3	11,859	10,886					
TRINITY_DN19879_c2_g1::TRINITY_DN19879_c2_g1_i5::g.125071::m.125071	3	30,3	10,647	90,204					
TRINITY_DN19880_c6_g4::TRINITY_DN19880_c6_g4_i2::g.125001::m.125001	7	56	18,87	15,915	PF14226.5	DIOX_N	88,3	5,70E-25	CL0029
TRINITY_DN19887_c8_g1::TRINITY_DN19887_c8_g1_i5::g.125402::m.125402	4	30,5	13,768	18,016					
TRINITY_DN19888_c1_g1::TRINITY_DN19888_c1_g1_i5::g.125265::m.125265	2	17,2	28,018	3,5788	PF00076.21	RRM_1	23,3	3,90E-05	CL0221
TRINITY_DN19895_c1_g1::TRINITY_DN19895_c1_g1_i3::g.125573::m.125573	1	2,2	61,181	2,1731	PF01412.17	ArfGap	91,1	4,30E-26	No_clan
TRINITY_DN19896_c1_g1::TRINITY_DN19896_c1_g1_i11::g.125427::m.125427	2	9,4	45,975	4,779	PF00288.25	GHMP_kinases_N	33,8	2,60E-08	CL0329
TRINITY_DN19896_c2_g1::TRINITY_DN19896_c2_g1_i4::g.125437::m.125437	3	8,4	50,051	7,4608	PF00462.23	Glutaredoxin	42,9	3,90E-11	CL0172
TRINITY_DN19898_c1_g2::TRINITY_DN19898_c1_g2_i1::g.123971::m.123971	4	19,5	25,014	18,578	PF01201.21	Ribosomal_S8e	196,3	2,10E-58	No_clan
TRINITY_DN19902_c1_g2::TRINITY_DN19902_c1_g2_i1::g.125828::m.125828	4	14,3	46,641	13,58	PF04811.14	Sec23_trunk	30,4	2,50E-07	CL0128
TRINITY_DN19908_c2_g1::TRINITY_DN19908_c2_g1_i5::g.125911::m.125911	2	13,5	22,643	2,2269	PF03081.14	Exo70	229,1	7,60E-68	CL0295
TRINITY_DN19909_c0_g1::TRINITY_DN19909_c0_g1_i3::g.126119::m.126119	12	28,7	61,917	323,31	PF08263.11	LRRNT_2	28,1	1,70E-06	No_clan
TRINITY_DN19911_c7_g2::TRINITY_DN19911_c7_g2_i3::g.126024::m.126024	7	56,3	14,187	181,24	PF08031.11	BBE	76,4	1,30E-21	CL0277

TRINITY_DN19911_c7_g3::TRINITY_DN19911_c7_g3_i1::g.126023::m.126023	10	61,1	18,518	114,68					
TRINITY_DN19918_c3_g1::TRINITY_DN19918_c3_g1_i11::g.126682::m.126682	6	7,7	113,94	12,371	PF04652.15	Vta1	60,7	1,30E-16	No_clan
TRINITY_DN19929_c0_g1::TRINITY_DN19929_c0_g1_i9::g.126183::m.126183	10	30,9	42,969	16,144	PF16363.4	GDP_Man_Dehyd	180,6	4,60E-53	CL0063
TRINITY_DN19935_c0_g1::TRINITY_DN19935_c0_g1_i18::g.126411::m.126411	1	7,7	17,515	1,8339					
TRINITY_DN19939_c3_g1::TRINITY_DN19939_c3_g1_i7::g.125684::m.125684	1	6	38,158	3,081	PF00069.24	Pkinase	242,6	4,00E-72	CL0016
TRINITY_DN19942_c0_g1::TRINITY_DN19942_c0_g1_i1::g.126320::m.126320	9	38,2	24,63	18,237	PF00347.22	Ribosomal_L6	44	2,50E-11	No_clan
TRINITY_DN19942_c2_g1::TRINITY_DN19942_c2_g1_i4::g.126324::m.126324	1	10,7	20,746	3,7046	PF00097.24	zf-C3HC4	25,4	8,60E-06	CL0229
TRINITY_DN19945_c1_g2::TRINITY_DN19945_c1_g2_i9::g.126623::m.126623	2	5,1	48,711	4,196	PF00083.23	Sugar_tr	322,5	4,10E-96	CL0015
TRINITY_DN19948_c1_g1::TRINITY_DN19948_c1_g1_i4::g.126476::m.126476	10	21,2	58,99	190,32	PF07991.11	IlvN	107,1	6,20E-31	CL0063
TRINITY_DN19948_c1_g1::TRINITY_DN19948_c1_g1_i7::g.126477::m.126477	4	40,4	11,605	48,05	PF07991.11	IlvN	27,7	1,60E-06	CL0063
TRINITY_DN19951_c3_g1::TRINITY_DN19951_c3_g1_i8::g.125811::m.125811	3	13,8	34,07	2,9284	PF00719.18	Pyrophosphatase	159,8	4,40E-47	No_clan
TRINITY_DN19952_c2_g2::TRINITY_DN19952_c2_g2_i3::g.126557::m.126557	4	11,8	40,023	62,982					
TRINITY_DN19957_c3_g2::TRINITY_DN19957_c3_g2_i9::g.126783::m.126783	7	63,3	16,005	56,72	PF00241.19	Cofilin_ADF	129,7	6,30E-38	CL0092
TRINITY_DN19962_c5_g2::TRINITY_DN19962_c5_g2_i2::g.126940::m.126940	1	7,4	16,792	1,8906	PF01095.18	Pectinesterase	252,5	3,30E-75	CL0268
TRINITY_DN19966_c14_g1::TRINITY_DN19966_c14_g1_i3::g.126866::m.126866	1	1,9	106,75	2,9291	PF00982.20	Glyco_transf_20	623,3	2,40E-187	CL0113
TRINITY_DN19972_c2_g1::TRINITY_DN19972_c2_g1_i3::g.126916::m.126916	5	43,3	11,54	14,217	PF00141.22	peroxidase	48,4	8,40E-13	CL0617
TRINITY_DN19979_c5_g4::TRINITY_DN19979_c5_g4_i2::g.127014::m.127014	8	50,3	19,498	41,766	PF00248.20	Aldo_ket_red	148,5	2,00E-43	No_clan
TRINITY_DN19979_c5_g4::TRINITY_DN19979_c5_g4_i5::g.127016::m.127016	8	37,3	26,15	5,7437	PF00248.20	Aldo_ket_red	202,3	8,30E-60	No_clan
TRINITY_DN19979_c5_g7::TRINITY_DN19979_c5_g7_i1::g.127021::m.127021	4	32,6	14,675	7,2217	PF00248.20	Aldo_ket_red	88	5,60E-25	No_clan
TRINITY_DN19980_c4_g3::TRINITY_DN19980_c4_g3_i6::g.127331::m.127331	10	63	13,817	323,31	PF01095.18	Pectinesterase	98	3,70E-28	CL0268
TRINITY_DN19981_c2_g1::TRINITY_DN19981_c2_g1_i2::g.127291::m.127291	5	7,4	89,455	8,4557	PF01805.19	Surp	74,7	3,90E-21	No_clan

TRINITY_DN19982_c2_g1::TRINITY_DN19982_c2_g1_i8::g.127226::m.127226	3	21,2	16,881	12,464	PF00156.26	Pribosyltran	48,2	7,70E-13	CL0533
TRINITY_DN19983_c1_g1::TRINITY_DN19983_c1_g1_i9::g.127358::m.127358	6	33	31,635	81,899	PF07933.13	DUF1681	177,6	1,10E-52	CL0266
TRINITY_DN19992_c4_g1::TRINITY_DN19992_c4_g1_i5::g.127460::m.127460	1	13,5	12,404	1,8506					
TRINITY_DN19995_c2_g1::TRINITY_DN19995_c2_g1_i2::g.127478::m.127478	3	5,9	70,874	4,5353	PF00082.21	Peptidase_S8	149	1,60E-43	No_clan
TRINITY_DN19996_c7_g1::TRINITY_DN19996_c7_g1_i2::g.127540::m.127540	13	32,5	54,181	38,355	PF07992.13	Pyr_redox_2	245,9	4,60E-73	CL0063
TRINITY_DN19997_c3_g2::TRINITY_DN19997_c3_g2_i2::g.127405::m.127405	3	23,6	14,456	4,2393	PF13414.5	TPR_11	33,4	2,40E-08	CL0020
TRINITY_DN19999_c7_g1::TRINITY_DN19999_c7_g1_i2::g.126443::m.126443	2	20	10,924	2,285	PF01230.22	HIT	67,9	9,40E-19	CL0265
TRINITY_DN20002_c1_g1::TRINITY_DN20002_c1_g1_i9::g.127794::m.127794	17	43,6	59,053	64,521	PF00118.23	Cpn60_TCP1	348,7	4,50E-104	No_clan
TRINITY_DN20003_c1_g1::TRINITY_DN20003_c1_g1_i6::g.127620::m.127620	2	13,2	14,94	2,2332	PF05347.14	Complex1_LYR	50,6	1,30E-13	CL0491
TRINITY_DN20008_c1_g1::TRINITY_DN20008_c1_g1_i8::g.127738::m.127738	6	21,3	36,597	11,237	PF00248.20	Aldo_ket_red	237,7	1,30E-70	No_clan
TRINITY_DN20011_c2_g2::TRINITY_DN20011_c2_g2_i1::g.127827::m.127827	15	35	62,757	41,162	PF00118.23	Cpn60_TCP1	512,1	1,30E-153	No_clan
TRINITY_DN20011_c3_g2::TRINITY_DN20011_c3_g2_i2::g.127835::m.127835	10	22,6	69,231	134,34	PF01301.18	Glyco_hydro_35	390,2	8,50E-117	CL0058
TRINITY_DN20016_c1_g1::TRINITY_DN20016_c1_g1_i7::g.127847::m.127847	4	20,4	31,988	8,3769	PF00248.20	Aldo_ket_red	165,8	1,10E-48	No_clan
TRINITY_DN20017_c0_g1::TRINITY_DN20017_c0_g1_i1::g.127859::m.127859	1	9,4	22,508	3,9658	PF02776.17	TPP_enzyme_N	42	6,60E-11	CL0254
TRINITY_DN20022_c2_g5::TRINITY_DN20022_c2_g5_i1::g.128013::m.128013	3	16,1	35,92	14,344	PF02338.18	OTU	113,9	6,20E-33	CL0125
TRINITY_DN20022_c3_g3::TRINITY_DN20022_c3_g3_i3::g.128023::m.128023	2	20	13,44	126,54					
TRINITY_DN20023_c4_g2::TRINITY_DN20023_c4_g2_i4::g.127985::m.127985	14	28,1	71,061	116,42	PF01602.19	Adaptin_N	438,5	2,90E-131	CL0020
TRINITY_DN20026_c6_g1::TRINITY_DN20026_c6_g1_i3::g.128057::m.128057	3	9,3	39,311	6,448	PF00067.21	p450	212,1	1,20E-62	No_clan
TRINITY_DN20029_c3_g4::TRINITY_DN20029_c3_g4_i4::g.128107::m.128107	8	76,9	15,01	269,58					
TRINITY_DN20035_c3_g1::TRINITY_DN20035_c3_g1_i3::g.128175::m.128175	6	21	43,866	13,643	PF00218.20	IGPS	271,2	6,40E-81	CL0036

TRINITY_DN20036_c5_g1::TRINITY_DN20036_c5_g1_i2::g.127587::m.127587	1	8,4	21,884	6,7506	PF02127.14	Peptidase_M18	136,2	1,20E-39	CL0035
TRINITY_DN20037_c6_g1::TRINITY_DN20037_c6_g1_i4::g.128163::m.128163	3	17,6	21,432	17,383	PF13563.5	2_5_RNA_ligase2	37,6	1,80E-09	CL0247
TRINITY_DN20043_c7_g1::TRINITY_DN20043_c7_g1_i1::g.128234::m.128234	6	56,8	19,21	27,456	PF02115.16	Rho_GDI	249,5	1,90E-74	No_clan
TRINITY_DN20043_c7_g2::TRINITY_DN20043_c7_g2_i2::g.128238::m.128238	4	55,1	12,002	8,7071	PF02115.16	Rho_GDI	53,4	2,40E-14	No_clan
TRINITY_DN20043_c8_g6::TRINITY_DN20043_c8_g6_i2::g.128243::m.128243	4	35,7	19,843	32,844	PF00400.31	WD40	21,2	0,00034	CL0186
TRINITY_DN20046_c4_g1::TRINITY_DN20046_c4_g1_i6::g.128432::m.128432	18	24,2	115,66	86,491	PF16078.4	2-oxogl_dehyd_N	59,4	1,70E-16	No_clan
TRINITY_DN20049_c7_g1::TRINITY_DN20049_c7_g1_i11::g.128495::m.128495	14	39,2	46,266	323,31	PF00370.20	FGGY_N	149,7	9,50E-44	CL0108
TRINITY_DN20189_c0_g1::TRINITY_DN20189_c0_g1_i1::g.128508::m.128508	2	11,7	22,698	6,3422	PF04398.11	DUF538	106,1	1,20E-30	No_clan
TRINITY_DN20983_c0_g1::TRINITY_DN20983_c0_g1_i1::g.128678::m.128678	3	10	44,026	5,2232	PF01535.19	PPR	14,1	0,039	CL0020
TRINITY_DN22718_c0_g1::TRINITY_DN22718_c0_g1_i1::g.128985::m.128985	1	17,4	12,447	3,9146	PF00704.27	Glyco_hydro_18	47,8	1,50E-12	CL0058
TRINITY_DN2281_c0_g1::TRINITY_DN2281_c0_g1_i1::g.635::m.635	1	5	47,454	1,8981	PF05185.15	PRMT5	243,9	7,70E-73	CL0063
TRINITY_DN27272_c0_g1::TRINITY_DN27272_c0_g1_i1::g.129628::m.129628	1	9,6	12,795	2,0604					
TRINITY_DN2866_c0_g1::TRINITY_DN2866_c0_g1_i1::g.791::m.791	2	3,1	66,703	2,5766					
TRINITY_DN3120_c0_g1::TRINITY_DN3120_c0_g1_i1::g.867::m.867	3	24,8	28,568	20,061	PF02330.15	MAM33	148,6	2,00E-43	No_clan
TRINITY_DN3188_c0_g1::TRINITY_DN3188_c0_g1_i1::g.878::m.878	4	25,5	18,311	5,6424	PF05899.11	Cupin_3	90,2	4,50E-26	CL0029
TRINITY_DN31964_c0_g1::TRINITY_DN31964_c0_g1_i1::g.130316::m.130316	2	15,1	17,406	2,3772	PF00112.22	Peptidase_C1	186	9,10E-55	CL0125
TRINITY_DN32151_c0_g1::TRINITY_DN32151_c0_g1_i1::g.130343::m.130343	1	18,4	13,002	7,4602					
TRINITY_DN32757_c0_g1::TRINITY_DN32757_c0_g1_i1::g.130429::m.130429	1	14,2	12,561	2,2704					
TRINITY_DN3292_c0_g1::TRINITY_DN3292_c0_g1_i2::g.890::m.890	1	3,8	40,868	2,0378	PF00226.30	DnaJ	91,9	1,80E-26	CL0392
TRINITY_DN34461_c0_g1::TRINITY_DN34461_c0_g1_i1::g.130651::m.130651	1	5,3	16,126	19,073	PF00295.16	Glyco_hydro_28	132,1	2,10E-38	CL0268
TRINITY_DN36067_c0_g1::TRINITY_DN36067_c0_g1_i1::g.130820::m.130820	7	70,1	19,452	323,31	PF00182.18	Glyco_hydro_19	297,9	5,70E-89	CL0037
TRINITY_DN36814_c0_g1::TRINITY_DN36814_c0_g1_i1::g.130975::m.130975	1	9	14,448	1,8789					

TRINITY_DN37045_c0_g1::TRINITY_DN37045_c0_g1_i1::g.131013::m.131013	7	25,6	45,719	12,353					
TRINITY_DN37417_c0_g1::TRINITY_DN37417_c0_g1_i1::g.131078::m.131078	1	4,8	30,577	-2	PF04564.14	U-box	57,7	9,40E-16	CL0229
TRINITY_DN44543_c0_g1::TRINITY_DN44543_c0_g1_i1::g.132115::m.132115	3	29,7	12,884	-2	PF00025.20	Arf	145,4	1,10E-42	CL0023
TRINITY_DN47853_c0_g1::TRINITY_DN47853_c0_g1_i1::g.132570::m.132570	3	22,9	14,825	2,0809	PF13499.5	EF-hand_7	56,5	2,60E-15	CL0220
TRINITY_DN48442_c0_g1::TRINITY_DN48442_c0_g1_i1::g.132681::m.132681	3	19,6	22,932	5,8424	PF00977.20	His_biosynth	91,4	5,30E-26	CL0036
TRINITY_DN49420_c0_g1::TRINITY_DN49420_c0_g1_i1::g.132815::m.132815	2	15,3	20,261	-2	PF13905.5	Thioredoxin_8	67,7	7,90E-19	CL0172
TRINITY_DN49712_c0_g1::TRINITY_DN49712_c0_g1_i1::g.132845::m.132845	1	7,1	23,772	2,205					
TRINITY_DN5236_c0_g1::TRINITY_DN5236_c0_g1_i1::g.1296::m.1296	3	15,2	29,878	6,7191					
TRINITY_DN5432_c0_g1::TRINITY_DN5432_c0_g1_i1::g.1343::m.1343	3	20,3	23,219	22,89	PF00171.21	Aldedh	250	3,20E-74	CL0099
TRINITY_DN5515_c0_g1::TRINITY_DN5515_c0_g1_i1::g.1365::m.1365	1	4,5	31,805	2,7708	PF17285.1	PRMT5_TIM	253,8	1,40E-75	CL0036
TRINITY_DN570_c0_g1::TRINITY_DN570_c0_g1_i1::g.152::m.152	3	30,7	12,836	4,7052					
TRINITY_DN6579_c0_g1::TRINITY_DN6579_c0_g1_i1::g.1685::m.1685	2	13,9	24,695	14,254	PF00394.21	Cu-oxidase	124,2	4,80E-36	CL0026
TRINITY_DN6604_c0_g1::TRINITY_DN6604_c0_g1_i1::g.1696::m.1696	1	3	36,852	1,8575	PF00394.21	Cu-oxidase	91,2	6,70E-26	CL0026
TRINITY_DN7453_c0_g1::TRINITY_DN7453_c0_g1_i1::g.2128::m.2128	4	40,6	14,984	24,668	PF00173.27	Cyt-b5	95,2	1,80E-27	No_clan
TRINITY_DN7586_c0_g2::TRINITY_DN7586_c0_g2_i1::g.2208::m.2208	2	25	13,115	41,909	PF02298.16	Cu_bind_like	85,2	2,20E-24	CL0026
TRINITY_DN7788_c0_g1::TRINITY_DN7788_c0_g1_i1::g.2350::m.2350	2	7,3	40,492	3,1878	PF00291.24	PALP	226,6	4,00E-67	No_clan
TRINITY_DN8001_c0_g1::TRINITY_DN8001_c0_g1_i1::g.2441::m.2441	2	9,4	40,571	11,136	PF16884.4	ADH_N_2	88	3,40E-25	CL0296
TRINITY_DN8833_c0_g1::TRINITY_DN8833_c0_g1_i2::g.2890::m.2890	10	49,7	20,044	323,31	PF00160.20	Pro_isomerase	164,3	2,40E-48	CL0475
TRINITY_DN8972_c0_g1::TRINITY_DN8972_c0_g1_i1::g.3000::m.3000	1	3,1	36,589	2,0405					
TRINITY_DN9198_c0_g1::TRINITY_DN9198_c0_g1_i1::g.3186::m.3186	7	20,8	51,249	21,091	PF00091.24	Tubulin	132,7	1,70E-38	CL0566
TRINITY_DN9267_c0_g1::TRINITY_DN9267_c0_g1_i1::g.3260::m.3260	2	2,1	92,534	2,257	PF00225.22	Kinesin	220,7	2,20E-65	CL0023
TRINITY_DN9332_c0_g1::TRINITY_DN9332_c0_g1_i2::g.3344::m.3344	1	4,3	26,001	5,4354	PF03099.18	BPL_LplA_LipB	102,4	1,60E-29	CL0040

TRINITY_DN9342_c0_g1::TRINITY_DN9342_c0_g1_i1::g.3304::m.3304	2	11	39,938	5,5638	PF00400.31	WD40	13,2	0,12	CL0186
TRINITY_DN9429_c0_g1::TRINITY_DN9429_c0_g1_i1::g.3466::m.3466	12	39,5	46,758	323,31	PF16499.4	Melibiase_2	264,1	1,20E-78	CL0058
TRINITY_DN9434_c0_g1::TRINITY_DN9434_c0_g1_i2::g.3474::m.3474	2	3,4	94,968	4,0387	PF00270.28	DEAD	145,7	1,10E-42	CL0023
TRINITY_DN9437_c0_g1::TRINITY_DN9437_c0_g1_i1::g.3480::m.3480	2	5,3	39,354	3,2666	PF00701.21	DHDPS	299,3	1,70E-89	CL0036
TRINITY_DN9524_c0_g1::TRINITY_DN9524_c0_g1_i2::g.3575::m.3575	1	5,2	27,594	2,8109	PF00124.18	Photo_RC	255,8	3,50E-76	No_clan
TRINITY_DN9608_c0_g1::TRINITY_DN9608_c0_g1_i2::g.3681::m.3681	1	9,2	19,921	2,6578					
TRINITY_DN9714_c0_g1::TRINITY_DN9714_c0_g1_i2::g.3800::m.3800	2	5	56,379	3,7745	PF14249.5	Tocopherol_cycl	485,9	5,30E-146	No_clan
TRINITY_DN9744_c0_g1::TRINITY_DN9744_c0_g1_i1::g.3792::m.3792	4	24,2	28,287	10,5	PF03332.12	PMM	363,5	3,70E-109	CL0137
TRINITY_DN9772_c0_g1::TRINITY_DN9772_c0_g1_i1::g.3863::m.3863	2	22,1	12,283	2,7106	PF00477.16	LEA_5	188,4	3,10E-56	CL0385
TRINITY_DN9796_c0_g1::TRINITY_DN9796_c0_g1_i1::g.3884::m.3884	2	5,2	60,627	4,0032	PF06325.12	PrmA	29,9	3,30E-07	CL0063
TRINITY_DN9822_c0_g1::TRINITY_DN9822_c0_g1_i1::g.3931::m.3931	1	6,7	24,438	3,0112	PF01425.20	Amidase	77,2	1,10E-21	No_clan
TRINITY_DN9836_c0_g1::TRINITY_DN9836_c0_g1_i2::g.3964::m.3964	1	7,6	16,286	2,4504	PF01176.18	eIF-1a	81,5	2,60E-23	CL0021
TRINITY_DN9933_c0_g1::TRINITY_DN9933_c0_g1_i1::g.4060::m.4060	5	23,4	33,594	14,661	PF13417.5	GST_N_3	71,2	6,50E-20	CL0172
TRINITY_DN9942_c0_g1::TRINITY_DN9942_c0_g1_i4::g.4015::m.4015	3	16,2	25,003	323,31	PF00314.16	Thaumatin	216,1	4,30E-64	CL0293

Supplementary Table S5: Intensities of identified Betula pollen proteins in different preparations

Protein IDs	Intensity fasp1	Intensity fasp2	Intensity fasp3	Intensity fasp4	Intensity acetone1	Intensity acetone2	Intensity acetone3	Intensity acetone4	Intensity tca1	Intensity tca2	Intensity tca3	Intensity tca4	Intensity zc1	Intensity zc2	Intensity zc3
TRINITY_DN17355_c4_g1::TRINITY_DN17355_c4_g1_i11::g.82598::m.82598	189420000	29987000	146350000	120130000	99435000	42155000	119940000	110630000	402270000	226360000	432310000	542580000	36326000	39050000	39444000
TRINITY_DN15290_c1_g1::TRINITY_DN15290_c1_g1_i13::g.49834::m.49834	110660000	38697000	134280000	117170000	118120000	42819000	115410000	69355000	269050000	152650000	378760000	391940000	36789000	52218000	40488000
TRINITY_DN11319_c0_g2::TRINITY_DN11319_c0_g2_i2::g.7052::m.7052	477170000	126680000	481550000	402550000	2375600	0	692250	947470	170000000	199640000	9799200	163500000	94284	319230	108120
TRINITY_DN14555_c5_g4::TRINITY_DN14555_c5_g4_i1::g.38907::m.38907	227120000	92916000	263240000	204910000	12285000	7639600	42183000	19777000	258600000	203090000	307440000	256480000	4528200	5172800	3968200
TRINITY_DN16112_c0_g1::TRINITY_DN16112_c0_g1_i8::g.62808::m.62808	86469000	35451000	112560000	102860000	66030000	41104000	106910000	30639000	220600000	120370000	266060000	327610000	17092000	31838000	27088000
TRINITY_DN14325_c0_g1::TRINITY_DN14325_c0_g1_i1::g.35421::m.35421	86040000	24065000	73090000	67895000	63976000	26927000	68956000	42862000	243290000	192530000	274340000	344500000	4282700	12533000	7546300
TRINITY_DN19980_c4_g3::TRINITY_DN19980_c4_g3_i6::g.127331::m.127331	140890000	52861000	147390000	163800000	67496000	34355000	55697000	31444000	248070000	151840000	206930000	184970000	11306000	23104000	9771700
TRINITY_DN14455_c0_g9::TRINITY_DN14455_c0_g9_i1::g.37463::m.37463	82656000	39634000	120940000	97097000	56345000	29358000	85541000	51661000	258560000	181020000	154280000	297850000	19189000	32937000	20403000
TRINITY_DN12690_c0_g1::TRINITY_DN12690_c0_g1_i3::g.14937::m.14937	118230000	32866000	109280000	120690000	54969000	16862000	31269000	46171000	218040000	139030000	228820000	311160000	7881100	20102000	12092000
TRINITY_DN19145_c0_g2::TRINITY_DN19145_c0_g2_i2::g.112927::m.112927	120250000	40599000	136190000	93485000	48678000	34898000	6956500	7244600	155410000	109020000	291000000	291210000	7694500	12630000	10811000
TRINITY_DN18658_c1_g1::TRINITY_DN18658_c1_g1_i9::g.104122::m.104122	79435000	27169000	94335000	80620000	52902000	13952000	32911000	39006000	140140000	98845000	191560000	259930000	12388000	24118000	24589000
TRINITY_DN19475_c9_g3::TRINITY_DN19475_c9_g3_i3::g.118615::m.118615	151810000	49191000	169440000	180750000	44783000	19002000	11515000	3426600	136570000	70077000	84885000	215040000	1901100	1538000	2668200
TRINITY_DN19879_c1_g2::TRINITY_DN19879_c1_g2_i1::g.125068::m.125068	181740000	73997000	203700000	200270000	12942000	24094000	20925000	12160000	139150000	107210000	54148000	95877000	4282900	3388500	5720800
TRINITY_DN11247_c0_g1::TRINITY_DN11247_c0_g1_i5::g.6785::m.6785	172140000	67190000	207600000	171390000	547100	9706400	0	448330	99679000	28064000	58999000	123490000	3044700	5210600	4355600
TRINITY_DN15025_c0_g1::TRINITY_DN15025_c0_g1_i1::g.45918::m.45918	59973000	16072000	46323000	62081000	29832000	16697000	36551000	38312000	129680000	81993000	129210000	171700000	25515000	34132000	22978000
TRINITY_DN14511_c0_g1::TRINITY_DN14511_c0_g1_i3::g.38108::m.38108	87925000	27307000	76076000	68437000	23621000	7475500	17600000	12424000	142730000	70593000	147900000	193700000	660780	1769500	1321500
TRINITY_DN19475_c9_g1::TRINITY_DN19475_c9_g1_i7::g.118616::m.118616	37667000	10765000	58197000	48528000	48158000	14414000	67044000	31243000	70366000	55406000	169270000	189460000	1910300	8263600	11030000
TRINITY_DN16589_c2_g3::TRINITY_DN16589_c2_g3_i3::g.69229::m.69229	90217000	38334000	140200000	49626000	5496500	3968100	6801400	5766100	70202000	58683000	135790000	171030000	3221800	4238900	543640
TRINITY_DN19281_c0_g3::TRINITY_DN19281_c0_g3_i5::g.115036::m.115036	29812000	9849300	29144000	33472000	39805000	19160000	40227000	25355000	126480000	87729000	102520000	171700000	23038000	13383000	13791000

TRINITY_DN18969_c3_g1::TRINITY_DN18969_c3_g1_i1::g.109636::m.109636	39500000	11736000	48556000	54110000	29774000	14198000	26255000	25727000	94355000	44396000	138510000	152440000	23219000	19669000	41747000
TRINITY_DN17420_c0_g3::TRINITY_DN17420_c0_g3_i2::g.83576::m.83576	62921000	15018000	51564000	80463000	33847000	14881000	41940000	29650000	52646000	49601000	96883000	130440000	22674000	32052000	47883000
TRINITY_DN11273_c0_g1::TRINITY_DN11273_c0_g1_i1::g.6839::m.6839	101120000	53562000	125690000	83196000	0	32089000	0	0	85177000	77018000	95859000	95427000	0	0	0
TRINITY_DN19790_c2_g2::TRINITY_DN19790_c2_g2_i6::g.123649::m.123649	123680000	0	57332000	65473000	17882000	9585700	0	0	131570000	114650000	69773000	148080000	0	0	0
TRINITY_DN14648_c0_g1::TRINITY_DN14648_c0_g1_i1::g.39924::m.39924	37665000	11947000	31106000	35567000	32289000	13844000	36017000	26433000	104130000	76780000	153670000	167000000	2903000	4781100	2843300
TRINITY_DN13067_c1_g1::TRINITY_DN13067_c1_g1_i2::g.19355::m.19355	35578000	12475000	44436000	31749000	32039000	11564000	59066000	27609000	92964000	64057000	147990000	130170000	5529500	8034000	8038900
TRINITY_DN14120_c0_g3::TRINITY_DN14120_c0_g3_i2::g.32536::m.32536	54951000	19024000	63801000	56528000	15067000	10395000	17995000	26036000	74560000	48294000	116810000	149840000	17615000	12757000	21428000
TRINITY_DN14328_c3_g1::TRINITY_DN14328_c3_g1_i9::g.35530::m.35530	28909000	12328000	37020000	43808000	28592000	18599000	33960000	36952000	66731000	52707000	102130000	119600000	38283000	45501000	38311000
TRINITY_DN15467_c6_g1::TRINITY_DN15467_c6_g1_i1::g.52486::m.52486	33089000	6121000	33135000	34170000	17986000	11883000	29615000	26740000	77832000	32008000	119120000	121610000	20114000	12323000	14416000
TRINITY_DN14030_c0_g1::TRINITY_DN14030_c0_g1_i1::g.31442::m.31442	27868000	3534500	28231000	31661000	26210000	8204200	24201000	27027000	85169000	45140000	112570000	93588000	18352000	24300000	21678000
TRINITY_DN19909_c0_g1::TRINITY_DN19909_c0_g1_i3::g.126119::m.126119	9463300	1639300	9278500	8758500	31611000	24318000	47324000	33714000	93510000	57071000	130500000	84012000	12538000	19825000	7838000
TRINITY_DN17277_c1_g3::TRINITY_DN17277_c1_g3_i4::g.81251::m.81251	24957000	7703000	28762000	33335000	39907000	3514500	9946300	27398000	70305000	26772000	78204000	130850000	14055000	24397000	23121000
TRINITY_DN17792_c0_g2::TRINITY_DN17792_c0_g2_i8::g.89735::m.89735	21758000	5983200	22818000	14277000	18536000	5549400	28548000	23197000	82208000	43003000	125070000	121650000	5223200	10539000	9853700
TRINITY_DN14776_c1_g1::TRINITY_DN14776_c1_g1_i2::g.42049::m.42049	17053000	6343100	23584000	19513000	28893000	10352000	15909000	20772000	82960000	56211000	89274000	129820000	9621100	9057800	8470600
TRINITY_DN17630_c0_g1::TRINITY_DN17630_c0_g1_i8::g.87337::m.87337	24700000	10689000	15285000	13494000	25345000	19764000	40015000	22552000	62971000	50928000	110640000	104860000	5099000	7963800	6259800
TRINITY_DN12397_c0_g1::TRINITY_DN12397_c0_g1_i3::g.12463::m.12463	20140000	5997400	21024000	19243000	28043000	14570000	29674000	28363000	67331000	47934000	93523000	97355000	15364000	17726000	13490000
TRINITY_DN12813_c0_g1::TRINITY_DN12813_c0_g1_i4::g.16165::m.16165	18090000	4817700	18023000	25973000	13220000	5435000	28877000	24123000	62471000	33594000	82206000	109790000	33979000	25568000	19823000
TRINITY_DN16032_c0_g1::TRINITY_DN16032_c0_g1_i3::g.60899::m.60899	29537000	6596200	38272000	47760000	18175000	11082000	6381800	15557000	70383000	51033000	59314000	87954000	19850000	18659000	18818000
TRINITY_DN14204_c0_g1::TRINITY_DN14204_c0_g1_i2::g.33925::m.33925	18077000	5435200	21733000	20673000	14879000	1714500	28474000	3313900	85738000	32325000	105890000	124760000	7924500	9365300	9785700
TRINITY_DN18302_c1_g2::TRINITY_DN18302_c1_g2_i4::g.98509::m.98509	34158000	13277000	40579000	26617000	27962000	8993800	31987000	19801000	66608000	46135000	56278000	78445000	15464000	11222000	11826000

TRINITY_DN11092_c0_g1::TRINITY_DN11092_c0_g1_i5::g.6307::m.6307	32777	0	0	200020000	0	0	0	0	92673000	93803000	0	100280000	0	0	0
TRINITY_DN13033_c2_g1::TRINITY_DN13033_c2_g1_i6::g.18937::m.18937	22362000	12503000	31122000	25275000	15903000	16930000	12663000	17529000	74567000	42863000	99461000	97139000	6134000	7381000	1204500
TRINITY_DN17355_c4_g1::TRINITY_DN17355_c4_g1_i4::g.82584::m.82584	22518000	9705000	31524000	32891000	27094000	13828000	9784400	1659100	46910000	39454000	100150000	130970000	3346400	4878900	7192700
TRINITY_DN19812_c4_g2::TRINITY_DN19812_c4_g2_i6::g.124061::m.124061	10715000	5641100	10442000	14990000	18697000	10603000	28398000	25823000	56844000	38832000	70172000	54490000	41758000	45382000	42169000
TRINITY_DN11789_c0_g1::TRINITY_DN11789_c0_g1_i4::g.8830::m.8830	34820000	11344000	33898000	30667000	31481000	17451000	24844000	18204000	61233000	37858000	68537000	65128000	7756500	8284200	12105000
TRINITY_DN19911_c7_g2::TRINITY_DN19911_c7_g2_i3::g.126024::m.126024	21430000	6035500	43339000	36869000	19049000	10188000	25051000	10579000	48718000	27495000	100520000	86370000	3134200	5854700	3316100
TRINITY_DN14120_c0_g1::TRINITY_DN14120_c0_g1_i4::g.32545::m.32545	40137000	14189000	32902000	27886000	21471000	12152000	17743000	17085000	41396000	27621000	117020000	43115000	10105000	16237000	8688300
TRINITY_DN19879_c2_g1::TRINITY_DN19879_c2_g1_i5::g.125071::m.125071	74636000	40531000	58374000	67510000	29324000	15057000	2607400	2315100	73315000	60236000	11007000	10958000	0	0	0
TRINITY_DN14558_c2_g3::TRINITY_DN14558_c2_g3_i1::g.38817::m.38817	60737000	26484000	76253000	59396000	2575600	12860000	1439900	7609600	44448000	45833000	19410000	69313000	2312800	5740900	2568900
TRINITY_DN15774_c1_g1::TRINITY_DN15774_c1_g1_i3::g.56941::m.56941	9550800	6528100	27787000	6708200	18955000	10452000	7273500	9823100	71075000	46504000	84677000	110680000	3158300	0	6636000
TRINITY_DN13244_c3_g1::TRINITY_DN13244_c3_g1_i1::g.21540::m.21540	9354800	1353200	10433000	7378300	16336000	5640900	10886000	23973000	68287000	49881000	71449000	87704000	22970000	17256000	13937000
TRINITY_DN18531_c0_g1::TRINITY_DN18531_c0_g1_i4::g.102214::m.102214	15171000	3269000	16183000	17956000	13041000	3587600	11750000	14903000	39489000	30094000	54894000	88505000	23422000	35736000	37490000
TRINITY_DN16132_c1_g2::TRINITY_DN16132_c1_g2_i1::g.62633::m.62633	64400000	17625000	44223000	24541000	18235000	7283000	12178000	5094800	35657000	13939000	35752000	95687000	6997500	0	10005000
TRINITY_DN18476_c0_g1::TRINITY_DN18476_c0_g1_i4::g.100953::m.100953	29527000	14305000	30269000	28306000	10039000	0	12190000	1322200	44153000	32836000	88177000	84847000	3964600	5049300	1656800
TRINITY_DN15025_c0_g1::TRINITY_DN15025_c0_g1_i8::g.45925::m.45925	14030000	4092100	14795000	18454000	18053000	11620000	24878000	21972000	42798000	22860000	61164000	96154000	7895600	8202300	11686000
TRINITY_DN15036_c1_g1::TRINITY_DN15036_c1_g1_i9::g.46235::m.46235	68711000	15370000	68806000	43645000	0	3814900	0	0	50048000	8074800	11997000	105860000	1713400	0	0
TRINITY_DN12776_c1_g2::TRINITY_DN12776_c1_g2_i6::g.15805::m.15805	7228100	3340200	11457000	25176000	50212000	14541000	6849700	386530	94707000	48569000	44586000	56230000	2411300	2642000	3294900
TRINITY_DN17440_c0_g3::TRINITY_DN17440_c0_g3_i6::g.84091::m.84091	28843000	6792800	24420000	29651000	15756000	3857800	16947000	12377000	59281000	28181000	54381000	47617000	17282000	4000000	20632000
TRINITY_DN19281_c0_g5::TRINITY_DN19281_c0_g5_i1::g.115035::m.115035	17028000	1827800	18088000	18007000	24976000	8663000	24818000	16342000	40588000	37637000	74557000	77279000	1506300	2033000	3716100
TRINITY_DN9942_c0_g1::TRINITY_DN9942_c0_g1_i4::g.4015::m.4015	12503000	6589000	17040000	13289000	13053000	4402000	21866000	15989000	54503000	51624000	78951000	76873000	0	0	0

TRINITY_DN19839_c2_g3::TRINITY_DN19839_c2_g3_i5::g.123823::m.123823	28569000	10805000	33509000	19898000	1422500	10407000	31350000	14496000	32130000	23453000	75221000	78902000	2763200	3555700	153680
TRINITY_DN19911_c7_g3::TRINITY_DN19911_c7_g3_i1::g.126023::m.126023	40126000	13325000	35949000	30643000	6566800	3499600	5295200	2761000	46160000	20598000	52671000	79474000	1706000	1085800	1169100
TRINITY_DN15452_c6_g1::TRINITY_DN15452_c6_g1_i5::g.52129::m.52129	9635800	2968900	17457000	14593000	19376000	9009900	19751000	14123000	34755000	21959000	55936000	60788000	13268000	18220000	21612000
TRINITY_DN18205_c0_g1::TRINITY_DN18205_c0_g1_i3::g.96958::m.96958	6597900	3367500	8058100	8453100	14144000	5914200	16610000	14515000	61902000	16961000	63799000	64282000	9326200	26399000	9656200
TRINITY_DN18360_c0_g7::TRINITY_DN18360_c0_g7_i2::g.99197::m.99197	21211000	6261600	24876000	24617000	11747000	3754600	15308000	14778000	24966000	21975000	64631000	17298000	12623000	30077000	28070000
TRINITY_DN19551_c4_g1::TRINITY_DN19551_c4_g1_i4::g.119678::m.119678	15956000	5489000	19969000	19787000	14763000	6225500	11105000	6316500	35747000	19356000	67178000	80310000	6427800	10420000	2474900
TRINITY_DN18258_c0_g1::TRINITY_DN18258_c0_g1_i10::g.97660::m.97660	15851000	5826900	20969000	20628000	14596000	4884700	15992000	8990900	55746000	23154000	56925000	34641000	18140000	12578000	10624000
TRINITY_DN15932_c0_g3::TRINITY_DN15932_c0_g3_i5::g.59231::m.59231	16476000	4365200	17437000	18315000	15038000	6243200	9959100	14354000	32214000	25975000	33752000	86072000	9991500	6339700	14664000
TRINITY_DN13825_c1_g1::TRINITY_DN13825_c1_g1_i2::g.28853::m.28853	14161000	4443100	19351000	15131000	13860000	6705700	22442000	19061000	31922000	24572000	55231000	51639000	10202000	10075000	11709000
TRINITY_DN13624_c1_g6::TRINITY_DN13624_c1_g6_i6::g.26482::m.26482	20407000	6317500	15350000	16123000	6205200	7799300	15488000	8850700	30842000	18263000	44365000	29684000	14014000	34079000	30267000
TRINITY_DN18743_c1_g1::TRINITY_DN18743_c1_g1_i1::g.105300::m.105300	11350000	5516600	15150000	12689000	26255000	7689400	30616000	9951900	32710000	15496000	68356000	57526000	1246100	1553600	1231800
TRINITY_DN13291_c0_g1::TRINITY_DN13291_c0_g1_i4::g.22017::m.22017	15470000	6183800	19648000	17137000	14100000	7751900	14955000	7689800	42866000	37028000	55115000	48273000	891490	4928400	5202300
TRINITY_DN19879_c1_g2::TRINITY_DN19879_c1_g2_i8::g.125070::m.125070	48134000	6082500	0	0	0	373530	0	0	59213000	54537000	90047000	34069000	0	0	0
TRINITY_DN19354_c2_g2::TRINITY_DN19354_c2_g2_i8::g.116447::m.116447	28214000	14608000	31674000	21849000	4054000	786560	5743000	5754200	31947000	20974000	44330000	53279000	7545600	10147000	8312200
TRINITY_DN19617_c3_g2::TRINITY_DN19617_c3_g2_i1::g.121264::m.121264	13450000	4566900	17396000	16461000	11559000	2747900	11318000	3570000	34554000	23708000	63325000	69085000	2159500	5858500	3978500
TRINITY_DN36067_c0_g1::TRINITY_DN36067_c0_g1_i1::g.130820::m.130820	2197100	659000	2318400	1672100	15596000	8203500	26820000	14508000	44868000	34764000	69626000	61356000	0	0	0
TRINITY_DN18306_c2_g1::TRINITY_DN18306_c2_g1_i5::g.98735::m.98735	12931000	2751100	18068000	15507000	10194000	3545200	12562000	12372000	17449000	17117000	35294000	75854000	15007000	16055000	16768000
TRINITY_DN13776_c0_g1::TRINITY_DN13776_c0_g1_i2::g.28095::m.28095	4346900	1009600	4361000	4423800	15296000	7747900	23933000	18412000	47106000	22083000	36973000	63300000	9252100	13251000	9685200
TRINITY_DN8833_c0_g1::TRINITY_DN8833_c0_g1_i2::g.2890::m.2890	56881000	11471000	8099800	7620500	13819000	6531500	13649000	17924000	29670000	16964000	36712000	40953000	6653900	4799900	5135900

TRINITY_DN16420_c0_g2::TRINITY_DN16420_c0_g2_i1::g.67374::m.67374	18693000	6497700	19658000	18060000	12408000	6398500	18097000	21528000	21836000	8491500	26644000	39151000	14030000	14660000	24004000
TRINITY_DN13666_c1_g1::TRINITY_DN13666_c1_g1_i6::g.26985::m.26985	6481100	1345000	7258800	7162400	9283800	1048300	10739000	12707000	46952000	34598000	59502000	65243000	831160	3008900	1929000
TRINITY_DN19405_c2_g1::TRINITY_DN19405_c2_g1_i12::g.117378::m.117378	14914000	4087000	8873200	11923000	15368000	8598500	20923000	13475000	23493000	23466000	41116000	54539000	5507800	7196700	6949100
TRINITY_DN18584_c1_g5::TRINITY_DN18584_c1_g5_i6::g.103010::m.103010	6005800	2250500	12235000	7787800	13330000	5959600	16011000	14040000	36440000	29998000	55542000	54533000	515540	1482400	228810
TRINITY_DN16422_c1_g1::TRINITY_DN16422_c1_g1_i4::g.67346::m.67346	7625400	1755900	11299000	7280200	5665700	3881000	6860700	5000000	21844000	11193000	41156000	37511000	18489000	29536000	46200000
TRINITY_DN13815_c1_g2::TRINITY_DN13815_c1_g2_i8::g.28885::m.28885	50932000	35938000	88675000	71778000	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN14162_c4_g1::TRINITY_DN14162_c4_g1_i2::g.33191::m.33191	14920000	4604000	13928000	12664000	7198000	9463100	20867000	11537000	29191000	19086000	54485000	42766000	447700	2028000	1696100
TRINITY_DN15589_c0_g1::TRINITY_DN15589_c0_g1_i4::g.54099::m.54099	4487600	959080	5419400	7183400	7248400	1294700	7042800	4255200	21280000	8652400	27310000	34829000	32409000	41265000	39131000
TRINITY_DN15010_c0_g3::TRINITY_DN15010_c0_g3_i5::g.45655::m.45655	8394500	1460200	8102800	6909700	6661700	6530100	14948000	8348100	18741000	16339000	29801000	25024000	18011000	35710000	31975000
TRINITY_DN16345_c0_g1::TRINITY_DN16345_c0_g1_i2::g.66198::m.66198	9453900	2574100	12711000	12512000	2174900	3232400	9548400	6970400	20293000	10455000	34674000	44522000	21090000	23689000	21427000
TRINITY_DN17420_c0_g2::TRINITY_DN17420_c0_g2_i1::g.83570::m.83570	8478300	1909100	10027000	11649000	13314000	3456300	11754000	18853000	29877000	19617000	33945000	43182000	4674300	5830700	12404000
TRINITY_DN18333_c2_g6::TRINITY_DN18333_c2_g6_i1::g.98947::m.98947	6631400	2863400	7683300	7807200	22356000	8715200	20351000	21110000	23664000	16971000	35233000	33312000	4993000	8495600	7610700
TRINITY_DN18850_c2_g2::TRINITY_DN18850_c2_g2_i2::g.107178::m.107178	83489000	18604000	0	47044000	0	0	0	0	0	0	78451000	0	0	0	0
TRINITY_DN18145_c2_g1::TRINITY_DN18145_c2_g1_i9::g.95178::m.95178	8554000	4210600	12528000	8780100	11544000	6299700	13124000	14634000	25244000	12007000	22834000	46112000	13639000	19997000	5976600
TRINITY_DN17440_c0_g5::TRINITY_DN17440_c0_g5_i3::g.84089::m.84089	9885000	4400400	13169000	13252000	11434000	4953200	13498000	4547600	24424000	20397000	40478000	40209000	7104800	10431000	2777600
TRINITY_DN12537_c1_g2::TRINITY_DN12537_c1_g2_i4::g.13603::m.13603	19673000	7397100	21387000	19094000	10201000	4097100	9941600	7662300	14040000	17534000	41825000	39311000	2072400	2511600	1507400
TRINITY_DN15426_c0_g2::TRINITY_DN15426_c0_g2_i4::g.51819::m.51819	6603000	4028500	13423000	9189400	11871000	1276100	12893000	14694000	14429000	7803400	62424000	42190000	5402500	6449300	5194900
TRINITY_DN15464_c0_g2::TRINITY_DN15464_c0_g2_i1::g.52259::m.52259	8153700	2606400	6803200	7914200	11517000	6149200	17441000	12964000	14794000	21040000	26133000	36828000	12682000	18137000	13892000
TRINITY_DN14041_c2_g1::TRINITY_DN14041_c2_g1_i4::g.31794::m.31794	8512900	2491500	5822600	6016500	5538400	1943600	8302900	8038500	24126000	11810000	23444000	38598000	20148000	22823000	22580000
TRINITY_DN14730_c2_g2::TRINITY_DN14730_c2_g2_i1::g.41382::m.41382	30613000	12406000	13600000	4081400	4225000	140120	7009700	683820	6484500	4438900	5739900	182330	34449000	46892000	38110000

TRINITY_DN19696_c3_g4::TRINITY_DN19696_c3_g4_i1::g.122257::m.122257	7341500	1941000	7356000	6943800	6255700	1950300	10909000	9150300	12556000	4474400	26812000	36764000	26409000	24331000	23340000
TRINITY_DN16808_c0_g1::TRINITY_DN16808_c0_g1_i2::g.73724::m.73724	17724000	4676600	21690000	15783000	14976000	4532100	13036000	16255000	9335400	16591000	59030000	5097900	3922500	1171800	158190
TRINITY_DN16940_c1_g2::TRINITY_DN16940_c1_g2_i2::g.75865::m.75865	12367000	7430500	23866000	11734000	6228900	4532200	4852600	0	30153000	23034000	25083000	42680000	2885300	3397500	4832200
TRINITY_DN14508_c8_g1::TRINITY_DN14508_c8_g1_i7::g.38377::m.38377	10306000	5025800	12722000	9982200	4496400	5650300	14911000	12657000	24692000	22240000	38624000	26087000	3408100	3873900	6772200
TRINITY_DN16840_c2_g1::TRINITY_DN16840_c2_g1_i1::g.74291::m.74291	8344400	3440000	9778200	12004000	9639100	5271400	4846200	8834400	23784000	6554900	25304000	30493000	16994000	19439000	16490000
TRINITY_DN17614_c0_g2::TRINITY_DN17614_c0_g2_i5::g.87093::m.87093	7451900	1078600	4900900	6461400	9259600	3524400	9227000	5722800	15887000	10182000	18410000	34560000	23042000	22326000	25800000
TRINITY_DN18004_c1_g6::TRINITY_DN18004_c1_g6_i1::g.93462::m.93462	10930000	4401100	15506000	14783000	12377000	3803700	6405600	6079700	26836000	18371000	10216000	52472000	2410600	4731900	6031100
TRINITY_DN13376_c2_g2::TRINITY_DN13376_c2_g2_i3::g.22986::m.22986	3533800	1486500	5216200	3436200	19822000	8061000	21914000	15022000	22528000	21965000	34712000	28348000	2186400	3493200	2800500
TRINITY_DN13606_c2_g2::TRINITY_DN13606_c2_g2_i1::g.26262::m.26262	10634000	1621400	13309000	11191000	5688300	3488600	8016300	5777500	14230000	5597500	16064000	27790000	27688000	22455000	19005000
TRINITY_DN14755_c2_g2::TRINITY_DN14755_c2_g2_i1::g.41670::m.41670	7177900	3412500	8346900	3963800	6027600	3415500	2553200	8525900	26931000	14875000	36463000	44403000	5945700	10447000	7188200
TRINITY_DN13024_c1_g2::TRINITY_DN13024_c1_g2_i1::g.18973::m.18973	5548600	2367600	7463000	7737300	14381000	705330	14622000	1761000	30704000	25695000	32191000	42139000	260840	309850	316700
TRINITY_DN14909_c1_g2::TRINITY_DN14909_c1_g2_i4::g.44177::m.44177	6440700	2418500	7980700	6527900	6335100	320260	0	728280	1714000	9284700	15077000	20407000	26764000	32550000	47133000
TRINITY_DN19579_c1_g1::TRINITY_DN19579_c1_g1_i2::g.120372::m.120372	0	0	0	0	0	0	0	0	0	0	0	161070000	398520	726830	16549000
TRINITY_DN14204_c0_g1::TRINITY_DN14204_c0_g1_i1::g.33924::m.33924	9856200	4650800	12119000	10671000	15832000	4202100	8919300	2156900	38903000	0	17639000	45071000	2142400	740810	3335100
TRINITY_DN12067_c0_g1::TRINITY_DN12067_c0_g1_i1::g.10231::m.10231	6885600	1284400	5829800	4806900	11752000	5123700	12224000	13998000	18112000	5339500	41210000	44746000	2051800	1560500	980040
TRINITY_DN18581_c2_g2::TRINITY_DN18581_c2_g2_i16::g.102885::m.102885	4284700	573420	4126300	4915600	11415000	4470200	15246000	10952000	29317000	16804000	29139000	41873000	998220	969730	807750
TRINITY_DN13947_c3_g5::TRINITY_DN13947_c3_g5_i8::g.30694::m.30694	3146200	968660	13751000	13673000	9095500	4774400	10699000	9767800	23323000	19494000	31379000	32016000	1240000	0	0
TRINITY_DN18713_c3_g1::TRINITY_DN18713_c3_g1_i8::g.105061::m.105061	6965500	2941200	6999600	7975100	5629600	2416500	10137000	7248200	31677000	11856000	40471000	34019000	1469100	1211600	1931100

TRINITY_DN19957_c3_g2::TRINITY_DN19957_c3_g2_i9::g.126783::m.126783	4794100	2338400	6493500	4981900	11235000	5208800	7327000	5471100	21643000	22206000	36372000	24526000	8264600	3452700	8499200
TRINITY_DN18489_c2_g2::TRINITY_DN18489_c2_g2_i5::g.101255::m.101255	4450100	1985900	4803400	4748500	12380000	3387700	13689000	8672700	10850000	18807000	34224000	44460000	3284600	4071800	2610800
TRINITY_DN15194_c1_g2::TRINITY_DN15194_c1_g2_i1::g.48344::m.48344	32735000	14687000	35271000	35568000	7096900	3023000	1548700	4873400	7037100	6736200	5778000	1194500	6716700	7756900	287730
TRINITY_DN17177_c3_g1::TRINITY_DN17177_c3_g1_i5::g.79706::m.79706	12082000	745710	13628000	12707000	5534000	2098400	4698300	7789900	17615000	10215000	20093000	11439000	16625000	17486000	17137000
TRINITY_DN13227_c0_g1::TRINITY_DN13227_c0_g1_i8::g.21288::m.21288	4502800	1028600	3357100	5076100	4850100	2917700	8346800	9155000	23908000	12640000	33615000	40498000	5410400	5568300	7388800
TRINITY_DN18988_c0_g2::TRINITY_DN18988_c0_g2_i2::g.109900::m.109900	10574000	888270	8142700	6593100	11205000	4151500	14602000	12360000	18578000	11849000	30385000	22974000	8282800	2946600	4244800
TRINITY_DN13588_c3_g5::TRINITY_DN13588_c3_g5_i3::g.25866::m.25866	8927600	2595100	7830600	8154900	9979400	4008900	3027100	4859600	9416300	4406100	44100000	29277000	5003900	13680000	8629700
TRINITY_DN15896_c1_g3::TRINITY_DN15896_c1_g3_i4::g.58593::m.58593	3035900	1353300	4953900	3523400	5531000	2206800	5533400	10586000	21177000	17230000	38900000	25570000	2631300	8810200	7585700
TRINITY_DN15954_c0_g1::TRINITY_DN15954_c0_g1_i1::g.59385::m.59385	6597400	2465400	9006100	9429700	2035900	1918300	2877800	11252000	17417000	5245800	24309000	22708000	14563000	15163000	12571000
TRINITY_DN15441_c0_g2::TRINITY_DN15441_c0_g2_i3::g.51488::m.51488	969720	97875	1431300	1140600	302520	1599600	6566200	289720	6406800	24013000	54390000	40598000	1453600	7852600	10210000
TRINITY_DN18164_c1_g2::TRINITY_DN18164_c1_g2_i2::g.96243::m.96243	11661000	3516600	14103000	13426000	5031700	2214200	4355800	8388300	11755000	5834300	15377000	5917000	14600000	17764000	22874000
TRINITY_DN18961_c1_g1::TRINITY_DN18961_c1_g1_i1::g.109399::m.109399	10846000	4188000	14835000	11725000	2474300	2141000	7667300	8821700	8497500	10460000	30651000	26261000	5623000	6254200	5958300
TRINITY_DN12699_c0_g1::TRINITY_DN12699_c0_g1_i1::g.14170::m.14170	2738600	826400	6240900	2537600	0	1840700	7130800	1731000	17064000	23556000	70010000	15758000	2171600	2108900	2466000
TRINITY_DN16736_c3_g2::TRINITY_DN16736_c3_g2_i1::g.72521::m.72521	4809300	2294100	6321200	7308400	6686900	2518200	8367800	8258500	16980000	12119000	24195000	24744000	10140000	14639000	6175200
TRINITY_DN13916_c2_g1::TRINITY_DN13916_c2_g1_i2::g.30380::m.30380	4936600	1236100	6593100	4863600	3331700	768340	4304300	3386500	3514700	1776800	7867500	14945000	26139000	37047000	34656000
TRINITY_DN12824_c2_g2::TRINITY_DN12824_c2_g2_i6::g.16244::m.16244	12616000	2016900	11784000	7948300	7788200	787340	4202900	5227100	25942000	17581000	34774000	9325200	6250300	0	8863000
TRINITY_DN19247_c0_g1::TRINITY_DN19247_c0_g1_i9::g.114529::m.114529	9143800	2478400	10318000	9095800	6781200	4164000	7623000	4662700	14644000	10938000	21252000	19281000	11136000	12025000	11210000
TRINITY_DN12966_c3_g1::TRINITY_DN12966_c3_g1_i1::g.17946::m.17946	3542700	585400	3365700	6263700	4993700	1507500	10263000	3786900	17839000	7280400	25811000	30008000	8707200	17604000	12524000
TRINITY_DN12426_c1_g1::TRINITY_DN12426_c1_g1_i1::g.12851::m.12851	5694200	2480900	7901000	6553800	6904400	2661300	1783000	20411000	16742000	8268500	30995000	30815000	3735600	4150300	4171700
TRINITY_DN16163_c6_g1::TRINITY_DN16163_c6_g1_i3::g.63330::m.63330	7167200	2941400	8001500	8047700	8445100	4625700	11084000	10244000	15814000	13584000	23949000	20404000	1457700	2768000	14185000

TRINITY_DN19582_c3_g2::TRINITY_DN19582_c3_g2_i6::g.120115::m.120115	13032000	4528200	10054000	12530000	3544400	819700	5431000	4662200	24882000	10454000	24385000	24760000	2881700	3251700	2638800
TRINITY_DN18840_c3_g1::TRINITY_DN18840_c3_g1_i1::g.107249::m.107249	4871300	1485600	4036000	5068700	2387500	3458500	8897700	11170000	18207000	16545000	31525000	30288000	1072700	3946200	4011100
TRINITY_DN14341_c0_g1::TRINITY_DN14341_c0_g1_i1::g.35559::m.35559	3597800	930370	3835700	3396900	2761100	0	1303000	3207000	4360700	3834100	4728900	9592700	23537000	41177000	38111000
TRINITY_DN16376_c0_g2::TRINITY_DN16376_c0_g2_i2::g.66583::m.66583	7198400	1396200	7231200	8159600	4853300	1564500	1023500	4283500	9604200	3970900	21101000	36205000	12452000	11201000	13737000
TRINITY_DN14576_c1_g5::TRINITY_DN14576_c1_g5_i7::g.39012::m.39012	3503100	1759100	5356600	4992900	9495400	2911600	5574800	9195800	22259000	8444900	30508000	25259000	3952300	3892700	5032000
TRINITY_DN12837_c2_g2::TRINITY_DN12837_c2_g2_i7::g.16580::m.16580	13104000	5562800	14992000	14647000	4902000	2094700	7874100	6720000	15722000	10582000	18449000	17049000	1489500	3691400	3366400
TRINITY_DN19292_c1_g3::TRINITY_DN19292_c1_g3_i1::g.115388::m.115388	1992600	354020	2045800	1776600	4091800	2111000	4504200	5367400	6567600	7824200	19557000	23286000	19413000	20229000	20729000
TRINITY_DN19563_c2_g1::TRINITY_DN19563_c2_g1_i4::g.120333::m.120333	5234400	983130	3603100	2861000	9229700	2461000	5816300	6203900	19914000	8560400	29528000	25353000	6010400	3976100	8280100
TRINITY_DN15394_c0_g1::TRINITY_DN15394_c0_g1_i2::g.49883::m.49883	296020	49677	227410	193970	921430	308450	1157100	534710	2820900	1038200	2530700	1751400	39766000	44098000	41541000
TRINITY_DN17751_c2_g3::TRINITY_DN17751_c2_g3_i5::g.89327::m.89327	2324500	136500	807220	2360000	867240	695790	1373900	266310	831880	2131200	3515700	1646200	35771000	38025000	45932000
TRINITY_DN16246_c1_g1::TRINITY_DN16246_c1_g1_i7::g.63898::m.63898	4995700	2723400	14497000	1731300	6265500	2744200	13392000	6568100	22462000	5999900	40465000	11430000	293070	2003500	387860
TRINITY_DN17837_c2_g1::TRINITY_DN17837_c2_g1_i9::g.90611::m.90611	4428500	1333200	4409500	4918000	3129000	714930	4298800	2273300	11692000	3992900	13723000	23418000	20894000	13838000	22695000
TRINITY_DN14185_c5_g3::TRINITY_DN14185_c5_g3_i3::g.33391::m.33391	2827300	813470	4171700	4011300	3214900	140110	3804400	4577000	8988600	5089400	19298000	39040000	15393000	11631000	11835000
TRINITY_DN17690_c0_g3::TRINITY_DN17690_c0_g3_i4::g.88277::m.88277	7959800	2159600	6958800	9214900	8014200	4424900	12311000	10567000	15852000	7827800	18049000	21647000	2523500	2867300	4429800
TRINITY_DN18947_c6_g5::TRINITY_DN18947_c6_g5_i2::g.109307::m.109307	1296000	1396600	6931400	5686100	6589300	1628300	2172300	2393900	31168000	22777000	6746700	32617000	2937000	3318900	3483700
TRINITY_DN16121_c0_g1::TRINITY_DN16121_c0_g1_i8::g.62467::m.62467	305850	82777	65063000	58419000	0	107890	0	0	0	0	0	0	2132500	2633200	2310800
TRINITY_DN19791_c7_g1::TRINITY_DN19791_c7_g1_i1::g.123736::m.123736	11447000	1905200	11560000	7963200	3354900	2815900	5788300	2549700	23170000	13888000	29047000	12419000	802540	1268900	1910400
TRINITY_DN13992_c5_g1::TRINITY_DN13992_c5_g1_i1::g.31138::m.31138	1353100	0	1743800	929980	0	1284400	3692700	0	31237000	26665000	14395000	48434000	0	0	0
TRINITY_DN18360_c0_g4::TRINITY_DN18360_c0_g4_i2::g.99196::m.99196	10688000	2299400	12836000	9263200	8331100	5016100	11594000	8072200	14624000	11486000	11542000	11751000	2824500	1644800	7477300
TRINITY_DN17227_c2_g4::TRINITY_DN17227_c2_g4_i1::g.80549::m.80549	7938400	1680200	9542400	4955100	5060600	3256600	9570500	5626600	19360000	5463600	23661000	31014000	611020	759200	725020

TRINITY_DN15584_c3_g1::TRINITY_DN15584_c3_g1_i1::g.54058::m.54058	5250100	2623700	6190300	5976500	7937900	2985300	9068600	3191500	5760200	14622000	19527000	31933000	4235200	4866600	4950500
TRINITY_DN15581_c1_g3::TRINITY_DN15581_c1_g3_i1::g.54122::m.54122	2337700	573780	1838200	1817800	1419300	1415700	6348900	5943000	5289300	5396700	13812000	14169000	17713000	22910000	25417000
TRINITY_DN16112_c0_g1::TRINITY_DN16112_c0_g1_i3::g.62802::m.62802	9258800	4489900	11284000	10029000	7343000	0	7911000	6433700	10292000	6585400	19387000	19433000	4662200	4423500	4369700
TRINITY_DN14318_c1_g3::TRINITY_DN14318_c1_g3_i3::g.35377::m.35377	0	407230	3586900	0	4625600	3087700	8167200	6660800	18341000	18176000	34045000	25803000	0	1564700	0
TRINITY_DN15029_c2_g1::TRINITY_DN15029_c2_g1_i2::g.45973::m.45973	9365900	2433800	10256000	8005700	6254500	2129500	3709400	6136400	13494000	10162000	19218000	26821000	1477400	2234200	431770
TRINITY_DN13265_c1_g1::TRINITY_DN13265_c1_g1_i6::g.21679::m.21679	6660200	1379900	759260	456550	4282700	954340	1952600	2376700	11342000	6999900	22428000	11703000	18009000	13792000	18349000
TRINITY_DN17067_c1_g2::TRINITY_DN17067_c1_g2_i1::g.77892::m.77892	7708300	1523300	7199200	5579700	3702800	3245600	11510000	4566500	13176000	10332000	22705000	21343000	1891700	3264800	1566400
TRINITY_DN19292_c1_g4::TRINITY_DN19292_c1_g4_i1::g.115390::m.115390	1775100	84896	1981000	808470	2197000	725620	3926600	1902000	6871000	3485200	6550400	8982400	23590000	29629000	26491000
TRINITY_DN17861_c1_g1::TRINITY_DN17861_c1_g1_i8::g.90805::m.90805	6275900	3054100	7960000	6912900	8115200	0	10903000	2584600	16603000	6132500	20026000	17990000	2472800	3488900	2957900
TRINITY_DN18164_c1_g1::TRINITY_DN18164_c1_g1_i4::g.96244::m.96244	2599200	918700	3011500	3632300	3603500	1393000	4944400	2625100	6276300	2416900	10798000	9015600	19502000	26160000	18040000
TRINITY_DN14877_c0_g1::TRINITY_DN14877_c0_g1_i9::g.43584::m.43584	11315000	2662900	12462000	6683800	6421900	2334100	6962000	7008900	13155000	927850	21234000	17955000	1990900	2035900	1650200
TRINITY_DN12561_c1_g1::TRINITY_DN12561_c1_g1_i2::g.13897::m.13897	1503600	42190	4151800	3188600	2188800	4963000	10688000	431500	26309000	1166800	4322900	55029000	0	0	790390
TRINITY_DN20029_c3_g4::TRINITY_DN20029_c3_g4_i4::g.128107::m.128107	3685300	1940300	6232900	5336500	8132400	504690	10542000	6221700	17796000	12544000	13583000	27277000	276770	307390	135600
TRINITY_DN14766_c7_g2::TRINITY_DN14766_c7_g2_i3::g.41862::m.41862	279260	53542	133220	63906	129880	0	294210	0	382830	181310	1151300	0	27823000	45450000	37775000
TRINITY_DN16988_c0_g1::TRINITY_DN16988_c0_g1_i6::g.76602::m.76602	4727000	2270400	6210100	6524500	2154300	818860	2249700	3318500	4106900	1885900	13454000	1405100	16141000	25065000	21903000
TRINITY_DN12011_c0_g1::TRINITY_DN12011_c0_g1_i3::g.9976::m.9976	1463700	296450	1201600	1539400	8461200	2347300	5372500	8141600	12515000	10953000	23387000	18996000	4606400	6956700	5923300
TRINITY_DN15069_c0_g1::TRINITY_DN15069_c0_g1_i1::g.46535::m.46535	4542200	951690	5357000	1516400	6467000	1380100	6418200	6684400	9244700	13574000	16009000	25452000	2962200	6887900	4615800
TRINITY_DN12538_c0_g3::TRINITY_DN12538_c0_g3_i3::g.13566::m.13566	1869200	579830	2162600	2759800	2810400	2178400	2947100	5752600	6364300	6618000	14884000	11496000	17114000	18558000	14722000
TRINITY_DN18548_c0_g1::TRINITY_DN18548_c0_g1_i8::g.102421::m.102421	5202000	1721000	6420700	5792100	2630400	1828400	2962900	3462600	8323500	2676800	13723000	14728000	7460200	18084000	14413000
TRINITY_DN19710_c5_g3::TRINITY_DN19710_c5_g3_i4::g.122648::m.122648	9723300	2317900	11633000	9836500	3264100	525770	1662900	574750	8148600	4567400	15974000	20753000	8561700	5344600	5894400
TRINITY_DN13376_c2_g1::TRINITY_DN13376_c2_g1_i2::g.22983::m.22983	8122600	2608500	7958600	7379100	6106500	890400	4782200	2273400	19313000	9104000	19838000	17290000	1499100	0	856880

TRINITY_DN18686_c0_g1::TRINITY_DN18686_c0_g1_i9::g.104732::m.104732	5778900	1336700	4879600	3899000	2844100	1219500	2487100	2158600	9233700	7041400	15888000	30756000	7743100	5810000	6499100
TRINITY_DN17312_c0_g3::TRINITY_DN17312_c0_g3_i1::g.81763::m.81763	500500	88727	427060	822680	0	0	124650	278860	467210	0	0	0	36531000	38272000	29714000
TRINITY_DN19604_c2_g3::TRINITY_DN19604_c2_g3_i3::g.120758::m.120758	9931600	2356200	10863000	11433000	3018800	1153000	3158600	4763000	13406000	6212400	16475000	19637000	112560	1331200	981670
TRINITY_DN16248_c1_g2::TRINITY_DN16248_c1_g2_i8::g.64559::m.64559	6416900	1507000	9994500	6393000	2548400	124450	5248000	1959600	10455000	5650300	19787000	25396000	3279500	2046600	2880500
TRINITY_DN19596_c1_g1::TRINITY_DN19596_c1_g1_i8::g.120430::m.120430	419650	142040	429390	402670	4521200	2571400	5637700	4541900	19641000	12406000	22939000	24363000	1559000	1229000	2346400
TRINITY_DN18641_c0_g1::TRINITY_DN18641_c0_g1_i1::g.103822::m.103822	19987000	8226500	27025000	21937000	7081600	2276300	8250000	7461900	0	0	0	0	0	162830	0
TRINITY_DN14398_c0_g1::TRINITY_DN14398_c0_g1_i7::g.36405::m.36405	1143100	121550	1447600	1233100	1745500	1259200	5571000	2222700	5977400	4800000	11123000	9666200	252030	55015000	599430
TRINITY_DN12966_c1_g1::TRINITY_DN12966_c1_g1_i2::g.17932::m.17932	3271500	418970	1450800	3425900	2244200	505630	3464100	4971100	16878000	5253100	21228000	20331000	4690400	10418000	2253200
TRINITY_DN16827_c1_g1::TRINITY_DN16827_c1_g1_i8::g.73997::m.73997	2953700	572070	2304400	3357400	1199100	101690	1890400	2108400	4070400	2629800	4227600	14817000	18213000	21279000	20928000
TRINITY_DN13204_c1_g1::TRINITY_DN13204_c1_g1_i4::g.21099::m.21099	1702200	1728900	4602000	7562800	3199800	1831800	5635600	2422400	10184000	14787000	14082000	15376000	3452800	6697200	5959500
TRINITY_DN13564_c1_g1::TRINITY_DN13564_c1_g1_i6::g.26053::m.26053	1206900	575460	3405200	1189800	6308800	2157900	7228500	2234900	15676000	11253000	20259000	21634000	1573200	4233300	0
TRINITY_DN13916_c3_g1::TRINITY_DN13916_c3_g1_i2::g.30393::m.30393	216520	95164	361550	0	174680	0	648120	0	0	1144100	0	2026700	37360000	28592000	27517000
TRINITY_DN18427_c0_g1::TRINITY_DN18427_c0_g1_i8::g.100422::m.100422	1064000	911830	3169200	3830200	3722700	1437900	9630900	8019400	9762100	6535700	24580000	22851000	2582300	0	0
TRINITY_DN14460_c2_g2::TRINITY_DN14460_c2_g2_i7::g.37472::m.37472	694940	72463	817210	1021100	246400	479090	2083100	1449700	6278100	3631900	5230000	8441600	8991100	16806000	41738000
TRINITY_DN7586_c0_g2::TRINITY_DN7586_c0_g2_i1::g.2208::m.2208	4433500	1656700	6212800	2766700	143130	0	1403500	0	23412000	3919200	29033000	22978000	169590	0	477370
TRINITY_DN19791_c7_g2::TRINITY_DN19791_c7_g2_i1::g.123738::m.123738	5462300	81396	3951200	4442200	1869700	1047600	2747600	3777200	16968000	3520200	11035000	28892000	5386300	3443300	3831900
TRINITY_DN14970_c1_g1::TRINITY_DN14970_c1_g1_i3::g.45037::m.45037	48512	36878	252290	109820	0	0	163870	144080	0	0	0	510930	27430000	35770000	31921000
TRINITY_DN12692_c0_g1::TRINITY_DN12692_c0_g1_i7::g.14951::m.14951	4429100	1569300	6373200	5188700	2773300	832480	5252700	4172800	10305000	10519000	26197000	14071000	586270	1633500	1585400
TRINITY_DN14755_c2_g1::TRINITY_DN14755_c2_g1_i4::g.41671::m.41671	5053900	1641000	7953200	5278900	2347600	1373500	4425800	5334600	13731000	3430100	16107000	12902000	4544300	7941100	2954600
TRINITY_DN18875_c2_g2::TRINITY_DN18875_c2_g2_i2::g.107929::m.107929	1406100	278000	1776100	356280	868490	916920	1464600	0	1127600	1988200	2434700	3126900	20428000	28567000	30083000
TRINITY_DN16364_c0_g1::TRINITY_DN16364_c0_g1_i6::g.66368::m.66368	222050	50835	156320	136750	74000	0	98239	0	249270	483350	728860	366270	27581000	30212000	34067000

TRINITY_DN16368_c1_g2::TRINITY_DN16368_c1_g2_i3::g.66564::m.66564	8638500	0	0	0	4943400	3107800	6733100	0	13950000	11179000	21739000	22007000	0	0	1694200
TRINITY_DN16555_c1_g6::TRINITY_DN16555_c1_g6_i1::g.69342::m.69342	1067300	868310	6998300	5218600	5356800	1844200	5861300	3842000	10194000	13780000	21995000	9547600	2173000	2536500	2668500
TRINITY_DN14266_c0_g1::TRINITY_DN14266_c0_g1_i8::g.34769::m.34769	136400	53719	279940	213520	610570	320480	1183100	587790	982970	2838300	4279100	2645600	19846000	31577000	27946000
TRINITY_DN12221_c0_g1::TRINITY_DN12221_c0_g1_i1::g.11196::m.11196	2171000	2047000	3263300	2768900	6538900	3151200	4195500	6839800	7139300	6114900	24674000	22263000	521910	159320	1431200
TRINITY_DN14696_c0_g1::TRINITY_DN14696_c0_g1_i1::g.40665::m.40665	6300000	466680	8609700	7678700	5584800	942940	8051700	7061500	16233000	8637100	5529600	16046000	0	0	1187800
TRINITY_DN19169_c1_g3::TRINITY_DN19169_c1_g3_i6::g.113174::m.1131	6221200	2155600	7012300	6203600	6496700	3382000	7970900	6188200	293910	9002500	7423900	19556000	2834500	3782200	3472500
TRINITY_DN13729_c0_g1::TRINITY_DN13729_c0_g1_i8::g.27674::m.27674	1950100	933280	2593100	2406400	4548600	2990400	8414100	6671200	12266000	5847800	11498000	18284000	3650300	5383800	3720800
TRINITY_DN16649_c0_g2::TRINITY_DN16649_c0_g2_i3::g.71022::m.71022	0	0	0	0	0	0	0	0	0	0	88299000	0	104190	144590	303110
TRINITY_DN16233_c2_g1::TRINITY_DN16233_c2_g1_i1::g.64327::m.64327	0	0	0	0	0	25367000	0	47749000	0	0	0	0	1486500	2264400	11647000
TRINITY_DN16571_c1_g1::TRINITY_DN16571_c1_g1_i8::g.69835::m.69835	4554500	1120200	5044900	4762200	1641300	1843600	9156900	5279500	6180000	5208200	18821000	15636000	1526000	4852900	2058200
TRINITY_DN18328_c0_g1::TRINITY_DN18328_c0_g1_i9::g.98876::m.98876	3032000	777900	2406600	3387000	1830200	568430	2093500	3413800	3052800	2401700	7727600	14650000	11273000	16219000	14305000
TRINITY_DN16032_c0_g1::TRINITY_DN16032_c0_g1_i2::g.60897::m.60897	5150100	2392500	6936200	7418300	6311700	1575200	4868400	0	14639000	14682000	22967000	0	0	0	0
TRINITY_DN12769_c0_g3::TRINITY_DN12769_c0_g3_i1::g.15717::m.15717	2612400	1486100	4442200	4327700	4668400	4353700	9075400	6258000	4782000	7598400	10706000	0	4893600	12846000	8454100
TRINITY_DN17019_c1_g3::TRINITY_DN17019_c1_g3_i1::g.77181::m.77181	0	0	0	0	0	0	0	362260	0	0	71362000	0	4651500	5773200	3582100
TRINITY_DN17448_c2_g3::TRINITY_DN17448_c2_g3_i9::g.83903::m.83903	3355600	991620	4578300	3090500	1409100	1995500	2619100	4654100	7803800	5186500	10272000	9903000	7480200	12052000	10219000
TRINITY_DN16630_c2_g1::TRINITY_DN16630_c2_g1_i6::g.70777::m.70777	1486100	968510	2982200	685960	4081000	1442800	4940400	3263600	6639600	5851600	7316900	19826000	7067500	9342100	9108200
TRINITY_DN12516_c0_g1::TRINITY_DN12516_c0_g1_i2::g.13472::m.13472	71680000	0	0	4433700	0	0	0	0	0	0	0	0	3401400	2314200	3077500
TRINITY_DN12883_c0_g1::TRINITY_DN12883_c0_g1_i6::g.16879::m.16879	4132100	385920	661040	458900	3238300	1968000	2918500	4596400	12893000	12662000	17898000	19023000	481930	1287900	1198600
TRINITY_DN19263_c0_g3::TRINITY_DN19263_c0_g3_i4::g.114811::m.114811	1341900	503080	1688100	1851800	4636100	2437400	6079300	4392300	9401400	6678600	10150000	12919000	7043300	7928600	6016100
TRINITY_DN19354_c2_g2::TRINITY_DN19354_c2_g2_i9::g.116448::m.116448	2411300	851460	3101800	3027000	11334000	6252800	296700	0	8007900	6206800	13506000	17008000	1351700	6276400	3352400

TRINITY_DN13726_c0_g3::TRINITY_DN13726_c0_g3_i1::g.27596::m.27596	6601100	575510	6782300	4648700	3883400	1372300	5864800	967000	6002500	4274600	19224000	19386000	2045400	539400	788220
TRINITY_DN20049_c7_g1::TRINITY_DN20049_c7_g1_i11::g.128495::m.128495	4320900	1469500	7403900	5376000	3596600	918620	2012000	564520	11894000	0	11002000	24473000	4199200	2554700	2426200
TRINITY_DN11737_c0_g1::TRINITY_DN11737_c0_g1_i1::g.8601::m.8601	3633900	2322900	5994200	7354300	3612300	2022300	1691500	3872500	9006300	10902000	22333000	8134500	160070	976140	179410
TRINITY_DN15578_c0_g1::TRINITY_DN15578_c0_g1_i2::g.54153::m.54153	5100100	1216000	5333900	6755400	2506700	545250	4117300	2986900	2649700	6009900	10027000	16058000	5034400	7419200	6400300
TRINITY_DN15120_c1_g1::TRINITY_DN15120_c1_g1_i1::g.47172::m.47172	1263600	277750	4873300	1608900	3598200	378980	3416500	1797600	9931000	5617600	24137000	24597000	0	0	0
TRINITY_DN11278_c0_g2::TRINITY_DN11278_c0_g2_i1::g.6843::m.6843	4147000	2203400	4966600	4549200	4526200	2660600	6268100	4652700	7680400	8063800	15705000	14838000	749410	158640	0
TRINITY_DN19745_c0_g1::TRINITY_DN19745_c0_g1_i7::g.123245::m.123245	2759100	604620	3907600	2446800	1822400	1017900	6578500	2300400	12217000	7586200	11675000	23187000	1885800	1571500	528560
TRINITY_DN13377_c3_g2::TRINITY_DN13377_c3_g2_i9::g.23085::m.23085	4479000	597360	4282100	4557800	2332600	1253400	754100	3142700	2312900	6467900	11524000	15967000	6936000	7521200	7172300
TRINITY_DN15863_c0_g2::TRINITY_DN15863_c0_g2_i4::g.58135::m.58135	1653400	450180	1928000	1418200	5066400	1072600	5222400	6474800	15444000	6992100	12292000	17094000	756480	2078300	1013500
TRINITY_DN18548_c0_g1::TRINITY_DN18548_c0_g1_i3::g.102416::m.102416	6619300	1721500	6645400	7505000	2461700	874110	1283300	2488000	5039200	4293700	6983700	7132300	6423600	10954000	7971100
TRINITY_DN10779_c0_g1::TRINITY_DN10779_c0_g1_i3::g.5511::m.5511	6861600	1672300	6341400	7747100	3921600	2300500	3480700	5713400	12365000	3194200	8850600	8645500	2879200	4055800	303070
TRINITY_DN15451_c0_g1::TRINITY_DN15451_c0_g1_i8::g.52025::m.52025	0	0	0	0	0	0	0	0	0	76270000	0	0	517730	484910	507110
TRINITY_DN14435_c3_g2::TRINITY_DN14435_c3_g2_i6::g.36467::m.36467	958650	128590	513770	354190	736170	147820	476220	420240	304390	800680	2267100	1771700	28930000	12683000	27076000
TRINITY_DN19361_c0_g1::TRINITY_DN19361_c0_g1_i10::g.117059::m.117059	0	0	0	0	49788000	26205000	0	0	0	0	0	0	1349700	0	0
TRINITY_DN11635_c0_g1::TRINITY_DN11635_c0_g1_i7::g.8217::m.8217	239730	80161	97858	609050	1217800	0	2411900	1360100	1198600	1794200	3792400	6537400	18577000	20531000	18643000
TRINITY_DN12062_c0_g1::TRINITY_DN12062_c0_g1_i4::g.10228::m.10228	865290	211700	807620	1016200	873310	484370	1164700	1184500	2088700	694400	3063200	2813400	19720000	20827000	20876000
TRINITY_DN13692_c1_g1::TRINITY_DN13692_c1_g1_i1::g.26628::m.26628	150190	0	139270	0	0	0	0	0	0	217680	0	0	25679000	22461000	27519000
TRINITY_DN16939_c1_g2::TRINITY_DN16939_c1_g2_i8::g.75928::m.75928	4715500	1802900	7305500	5102900	3772300	549840	4048500	2896500	6178100	4949700	18890000	13512000	668250	530350	911070
TRINITY_DN13776_c0_g2::TRINITY_DN13776_c0_g2_i2::g.28097::m.28097	1704500	702180	1339300	501950	2426800	1363600	1341600	1619500	11817000	0	19406000	22568000	2681800	2406100	4654100
TRINITY_DN15671_c0_g2::TRINITY_DN15671_c0_g2_i5::g.55277::m.55277	2329500	437130	2179100	1562800	1711900	983900	325530	2849000	3059500	1485000	9133300	8161800	12931000	11878000	15007000
TRINITY_DN18192_c1_g2::TRINITY_DN18192_c1_g2_i5::g.96646::m.96646	1569600	0	1677400	1124500	4384300	2274600	8614800	4362600	7075100	5378100	9398800	12347000	5343600	5164300	5206600

TRINITY_DN18029_c5_g1::TRINITY_DN18029_c5_g1_i6::g.93985::m.93985	676430	107890	968260	1292000	193380	139380	1089400	1224100	1738100	0	3675000	21790000	13514000	13357000	13636000
TRINITY_DN14933_c0_g2::TRINITY_DN14933_c0_g2_i3::g.44460::m.44460	3779000	2237200	4340300	5875200	445660	505730	3098200	3534800	11034000	8655400	19756000	7661300	0	1353700	1018300
TRINITY_DN16437_c1_g2::TRINITY_DN16437_c1_g2_i4::g.67526::m.67526	216320	40261	85941	0	534520	308990	735800	808020	1951700	444850	3273200	0	22248000	20090000	22350000
TRINITY_DN19108_c2_g3::TRINITY_DN19108_c2_g3_i2::g.112222::m.112222	4588300	1123300	5475800	4641800	2947700	1474600	3914400	4297500	7506600	5563400	10837000	11692000	2528600	3114200	2876700
TRINITY_DN18028_c1_g1::TRINITY_DN18028_c1_g1_i5::g.93929::m.93929	4722200	1169600	5337600	4297300	1545400	1156300	2630000	3348100	8468300	2781400	5508000	9153400	7071400	8245700	6505800
TRINITY_DN12699_c0_g1::TRINITY_DN12699_c0_g1_i7::g.14174::m.14174	1775100	753470	2008300	1610300	5631100	1224900	2437700	2020400	11946000	5034000	26167000	0	3434200	3224900	4627000
TRINITY_DN19669_c1_g1::TRINITY_DN19669_c1_g1_i10::g.121794::m.121794	114550	0	180680	171750	7631100	2273500	9838700	6736800	0	7144500	19591000	9340800	4666700	2987500	1104400
TRINITY_DN14038_c1_g2::TRINITY_DN14038_c1_g2_i5::g.31646::m.31646	2546000	571500	2527200	2819600	1977900	921670	3153600	3029200	7104700	2554800	9363800	3916500	7703500	9184900	14318000
TRINITY_DN16581_c1_g3::TRINITY_DN16581_c1_g3_i2::g.69928::m.69928	997130	412160	1135900	1197100	2526800	320670	1033800	1882500	2116900	4163500	4984300	1954700	17744000	15881000	15208000
TRINITY_DN16667_c0_g2::TRINITY_DN16667_c0_g2_i1::g.71232::m.71232	780540	262260	887890	703570	0	425800	593880	472810	779270	0	4477300	3589700	14819000	24008000	19715000
TRINITY_DN16967_c3_g1::TRINITY_DN16967_c3_g1_i3::g.76257::m.76257	2693400	548980	3073300	3351700	4102000	1458300	1250400	3048600	6186500	8141900	8734200	15930000	5651900	2871000	3191300
TRINITY_DN14845_c0_g2::TRINITY_DN14845_c0_g2_i5::g.43176::m.43176	0	29713	70150	86101	0	0	0	235070	0	0	146070	562500	23430000	23449000	22159000
TRINITY_DN9429_c0_g1::TRINITY_DN9429_c0_g1_i1::g.3466::m.3466	1753300	313650	1737500	1644600	4038100	2566900	5162300	3840000	10773000	5248800	6791100	14850000	3009900	3852000	4391700
TRINITY_DN12329_c1_g1::TRINITY_DN12329_c1_g1_i1::g.11925::m.11925	4010100	946070	2774400	951870	3311700	869800	2043500	2130700	9626300	1201000	17511000	22798000	1106400	453840	0
TRINITY_DN17549_c7_g7::TRINITY_DN17549_c7_g7_i1::g.85830::m.85830	0	0	0	0	3256900	1893700	4373000	4097800	13211000	8588200	13960000	16283000	1243700	1506100	1132300
TRINITY_DN16210_c2_g2::TRINITY_DN16210_c2_g2_i2::g.64102::m.64102	2831300	713000	3303000	3120100	2895900	1513900	3618900	3814800	2356700	4340100	7616800	9568600	7668900	8178100	7904500
TRINITY_DN18132_c2_g1::TRINITY_DN18132_c2_g1_i3::g.95646::m.95646	0	0	0	0	3549700	0	3477100	3963100	2580500	8850000	22606000	17899000	2775800	3177300	0
TRINITY_DN12647_c0_g1::TRINITY_DN12647_c0_g1_i2::g.14733::m.14733	4501100	1514200	4791100	4705700	2962200	2293800	1309800	2817300	2484800	8470700	12860000	8947100	3247100	3658100	3681200
TRINITY_DN19952_c2_g2::TRINITY_DN19952_c2_g2_i3::g.126557::m.126557	4738800	1757200	4197900	3749000	0	0	2913400	2390200	4629900	6112200	16845000	7791000	2841800	4425300	4915400
TRINITY_DN17973_c0_g3::TRINITY_DN17973_c0_g3_i3::g.92497::m.92497	4397600	1100400	3807000	3265000	4237300	1045200	892930	289260	0	181930	19158000	17789000	850560	624950	9477100

TRINITY_DN16421_c0_g1::TRINITY_DN16421_c0_g1_i1::g.67240::m.67240	3856300	627490	4959400	3207700	1299000	661290	1939300	1614400	3103700	4940700	12772000	11991000	3453400	6918800	5701200
TRINITY_DN32757_c0_g1::TRINITY_DN32757_c0_g1_i1::g.130429::m.130429	0	0	0	0	0	0	0	0	0	0	0	67029000	0	0	0
TRINITY_DN14021_c1_g2::TRINITY_DN14021_c1_g2_i5::g.31431::m.31431	1657400	879610	5123600	3016600	1745100	596390	2169800	3230000	6590100	5577500	18300000	13563000	336400	1814300	2234500
TRINITY_DN20011_c3_g2::TRINITY_DN20011_c3_g2_i2::g.127835::m.127835	4251100	1073800	4183000	3771300	3530300	427000	1917500	3808700	11140000	1281400	13184000	13821000	216690	1124300	2963600
TRINITY_DN16305_c0_g1::TRINITY_DN16305_c0_g1_i3::g.65508::m.65508	7473000	2500500	6776600	3180900	4878900	2765000	0	8022700	0	9277300	7973900	9982500	3859000	0	0
TRINITY_DN12041_c0_g1::TRINITY_DN12041_c0_g1_i1::g.10132::m.10132	2978900	623360	4464400	3068400	2458200	1370500	820840	3397700	4536600	6132800	7293600	14282000	891510	6531600	7586600
TRINITY_DN15348_c2_g2::TRINITY_DN15348_c2_g2_i4::g.50676::m.50676	1899700	364950	1847400	1699200	1025700	213500	2409300	1724500	3712300	182060	10864000	8217800	3653900	17330000	10184000
TRINITY_DN14545_c0_g2::TRINITY_DN14545_c0_g2_i2::g.38716::m.38716	0	0	0	0	0	0	0	0	0	226190	0	0	19055000	22416000	23477000
TRINITY_DN13014_c6_g2::TRINITY_DN13014_c6_g2_i4::g.18867::m.18867	23910	26327	42037	0	0	100700	0	0	0	0	0	0	16678000	25060000	23165000
TRINITY_DN16814_c2_g1::TRINITY_DN16814_c2_g1_i8::g.73807::m.73807	0	0	0	0	0	0	0	0	0	0	0	0	22767000	21344000	20535000
TRINITY_DN14872_c2_g2::TRINITY_DN14872_c2_g2_i2::g.43670::m.43670	266970	0	885100	374630	216710	0	0	0	115060	2405000	2411100	2534400	14314000	22879000	18168000
TRINITY_DN13283_c0_g1::TRINITY_DN13283_c0_g1_i3::g.21813::m.21813	120090	46577	0	0	0	0	0	0	0	0	0	0	15255000	22461000	25773000
TRINITY_DN14986_c4_g1::TRINITY_DN14986_c4_g1_i9::g.45372::m.45372	1867300	602470	2262000	1962900	4089700	992090	3105900	3450200	1611500	2997100	6340400	10680000	5261900	8526000	9019100
TRINITY_DN13825_c0_g2::TRINITY_DN13825_c0_g2_i1::g.28850::m.28850	4884300	0	5161400	6246600	3198200	1913100	5115500	3335100	6287200	4387500	2594100	10635000	2586000	3179900	2884000
TRINITY_DN19496_c3_g4::TRINITY_DN19496_c3_g4_i2::g.118720::m.118720	3797500	1738700	4355500	3658900	1361300	1322700	3279100	0	15638000	1690800	23197000	1476900	541050	0	0
TRINITY_DN19996_c7_g1::TRINITY_DN19996_c7_g1_i2::g.127540::m.127540	959450	391960	915320	726480	235130	0	498240	953930	0	604260	3023000	5069400	11866000	19336000	17346000
TRINITY_DN16132_c1_g1::TRINITY_DN16132_c1_g1_i4::g.62630::m.62630	3770300	2458600	11447000	2787500	0	0	0	2670600	0	3383300	26796000	7315700	0	1228700	0
TRINITY_DN12592_c2_g1::TRINITY_DN12592_c2_g1_i5::g.14064::m.14064	715040	64332	975920	740150	3648600	2030200	3663300	3563100	7894200	5879700	10617000	11070000	2792000	4566500	3404300
TRINITY_DN15525_c0_g1::TRINITY_DN15525_c0_g1_i8::g.53299::m.53299	0	0	106630	94034	382120	0	220650	0	0	0	0	0	17897000	24054000	18685000
TRINITY_DN19723_c2_g3::TRINITY_DN19723_c2_g3_i3::g.122857::m.122857	3273200	945180	3952500	4236900	4438400	1094200	4160100	5297000	5375300	690080	11295000	7906700	2327900	2362300	3185400

TRINITY_DN18422_c0_g3::TRINITY_DN18422_c0_g3_i1::g.100190::m.100190	1772300	251220	899450	2158700	1718600	155190	971700	1085900	1332100	0	7414600	9610300	10210000	12060000	10855000
TRINITY_DN13563_c1_g1::TRINITY_DN13563_c1_g1_i8::g.25419::m.25419	78958	0	177060	12870	118810	0	0	61837	352380	0	212790	698270	17368000	20475000	20790000
TRINITY_DN18526_c1_g2::TRINITY_DN18526_c1_g2_i7::g.101942::m.101942	1525300	265410	1193800	1556900	1633100	1179100	762540	1612000	4175100	776330	5733800	9078600	6698100	15588000	8395600
TRINITY_DN13666_c1_g1::TRINITY_DN13666_c1_g1_i1::g.26956::m.26956	5093200	2262800	8114700	6701000	2596000	0	3419100	2905200	7381100	6166500	7271800	8241800	0	0	0
TRINITY_DN13901_c0_g1::TRINITY_DN13901_c0_g1_i11::g.28513::m.2851	1615500	979830	2479200	1752600	2379900	1059600	2797400	1256900	7184700	5128100	9888900	14420000	3665100	2822800	2593800
TRINITY_DN12879_c0_g1::TRINITY_DN12879_c0_g1_i1::g.16746::m.16746	1002600	517080	1527200	1560000	1314400	2299300	2631300	2358300	5710100	9518900	11147000	11615000	2327000	2794800	2882900
TRINITY_DN15261_c0_g1::TRINITY_DN15261_c0_g1_i6::g.49258::m.49258	304650	133630	1482500	1585600	554230	256100	708300	1975600	1482100	992920	2186100	2137200	10371000	15834000	16748000
TRINITY_DN11924_c0_g1::TRINITY_DN11924_c0_g1_i1::g.9513::m.9513	6992700	963270	5183900	4157200	1233200	1155000	1737000	1390100	7248000	1945900	5820400	8796200	1796500	4682200	2654500
TRINITY_DN18749_c0_g2::TRINITY_DN18749_c0_g2_i4::g.105830::m.105830	1007200	221250	1498000	815210	4260300	817280	940000	2983200	9687300	3240900	16266000	11192000	1184000	0	1592000
TRINITY_DN18258_c0_g1::TRINITY_DN18258_c0_g1_i1::g.97653::m.97653	3352600	394160	2074100	0	2476600	1436200	3409500	3414900	7354400	0	12429000	12478000	3449200	3242700	0
TRINITY_DN17853_c1_g4::TRINITY_DN17853_c1_g4_i19::g.90697::m.90697	901420	313720	1233700	3189300	3270700	123150	5620500	1462400	6435500	5785000	8484700	15711000	576190	1536000	780830
TRINITY_DN11160_c0_g1::TRINITY_DN11160_c0_g1_i1::g.6484::m.6484	1117400	92244	1474900	441800	4245900	1968700	6281100	3255500	5970400	6476000	9586100	13422000	0	522160	500130
TRINITY_DN15352_c3_g1::TRINITY_DN15352_c3_g1_i9::g.50776::m.50776	1911700	527370	3040000	2071200	3468100	1219400	2733200	3356300	5265700	5115100	12842000	8316700	1943500	1384200	2007300
TRINITY_DN19260_c1_g1::TRINITY_DN19260_c1_g1_i11::g.114784::m.114784	1669500	666690	2297500	2296600	885800	545450	1229200	1490000	6248900	3473900	6380100	8612100	5620800	5009900	7940200
TRINITY_DN18987_c4_g3::TRINITY_DN18987_c4_g3_i1::g.110065::m.110065	518710	58320	1237800	1162400	1739600	803280	2678900	2435200	7554900	3945500	9351900	11854000	2584800	5079400	3339000
TRINITY_DN12537_c1_g2::TRINITY_DN12537_c1_g2_i7::g.13611::m.13611	4305800	1326000	5489700	5055500	3638500	1123000	2064200	1289800	8724300	3200300	8766000	9239700	0	0	0
TRINITY_DN19187_c2_g2::TRINITY_DN19187_c2_g2_i1::g.113564::m.113564	641290	256680	975920	1917200	1701600	188590	3564700	1512300	7866000	3830000	6135100	11846000	4329200	3380900	5620400
TRINITY_DN12599_c0_g1::TRINITY_DN12599_c0_g1_i6::g.14058::m.14058	0	0	333110	0	169350	0	159240	91329	804460	116120	753730	724920	14629000	17090000	18524000
TRINITY_DN19040_c3_g4::TRINITY_DN19040_c3_g4_i1::g.110853::m.110853	1764800	544070	2514900	2276500	3351400	1743500	1974200	2896700	2527200	1151300	9741100	6592800	5450200	4687800	6049000
TRINITY_DN14858_c0_g1::TRINITY_DN14858_c0_g1_i1::g.43399::m.43399	447200	120960	364940	837010	559760	208020	870150	518540	1286600	0	1149900	1023300	27471000	9644800	8758200

TRINITY_DN18296_c0_g1::TRINITY_DN18296_c0_g1_i5::g.98309::m.98309	4170100	792580	4376100	3871200	602740	712410	598560	1303800	8460000	3724100	10252000	11387000	1500400	715770	739930
TRINITY_DN13876_c0_g1::TRINITY_DN13876_c0_g1_i2::g.29614::m.29614	2310700	870190	2420900	1965800	2436600	760470	3274500	3640200	3558900	4711100	10876000	15835000	0	487570	0
TRINITY_DN11399_c0_g1::TRINITY_DN11399_c0_g1_i3::g.6893::m.6893	0	0	0	0	0	0	0	0	428130	0	553130	0	14122000	15443000	22449000
TRINITY_DN16378_c0_g2::TRINITY_DN16378_c0_g2_i3::g.66649::m.66649	1440300	380700	1692300	1110000	566180	303280	1034400	816480	2438900	2521200	3696200	3707200	10263000	13460000	9441200
TRINITY_DN19790_c2_g2::TRINITY_DN19790_c2_g2_i1::g.123647::m.123647	42828	0	46816	60520	5071000	2299700	0	2697300	33914000	0	0	4220600	4482200	0	0
TRINITY_DN13975_c1_g4::TRINITY_DN13975_c1_g4_i3::g.30944::m.30944	10544000	795680	7878500	7493900	0	0	765840	0	0	0	0	24824000	0	0	0
TRINITY_DN13815_c1_g2::TRINITY_DN13815_c1_g2_i6::g.28882::m.28882	443410	146010	527250	585930	1694000	587350	793230	746080	2637200	0	952690	5659800	10088000	13751000	13633000
TRINITY_DN19396_c1_g1::TRINITY_DN19396_c1_g1_i8::g.116313::m.116313	0	0	0	0	0	0	0	0	0	0	0	0	12029000	21258000	18847000
TRINITY_DN18341_c1_g1::TRINITY_DN18341_c1_g1_i3::g.99097::m.99097	6158200	1989100	8390000	6493900	3462600	1504800	0	7082900	2616800	0	8054800	4821400	481040	1041000	0
TRINITY_DN13865_c0_g1::TRINITY_DN13865_c0_g1_i3::g.29082::m.29082	235560	39592	324780	414920	0	30223	0	0	447860	0	2155200	2587500	13080000	22125000	10398000
TRINITY_DN16815_c5_g2::TRINITY_DN16815_c5_g2_i1::g.73817::m.73817	412650	102620	564880	270140	235430	305200	622700	0	127580	0	0	0	13128000	17116000	18835000
TRINITY_DN14080_c2_g1::TRINITY_DN14080_c2_g1_i10::g.32162::m.32162	1502200	458820	1697500	2076900	2362700	1219700	2844300	2980300	8167000	3602700	8386100	6957600	2727500	3307200	3362300
TRINITY_DN15949_c1_g2::TRINITY_DN15949_c1_g2_i8::g.59514::m.59514	1802100	1088000	3576700	2818300	1141000	1240000	2871500	2208700	5396400	3538200	10012000	10640000	1013200	2516300	1455700
TRINITY_DN19409_c5_g5::TRINITY_DN19409_c5_g5_i2::g.117475::m.117475	113160	0	44842	78372	5452300	608980	0	1998000	11576000	7794400	9019900	14154000	0	0	0
TRINITY_DN19604_c2_g1::TRINITY_DN19604_c2_g1_i2::g.120755::m.120755	2428200	251960	2103000	2284700	2482800	228140	2738100	1173000	7660700	687640	12808000	15053000	336780	0	455780
TRINITY_DN17204_c0_g1::TRINITY_DN17204_c0_g1_i8::g.80281::m.80281	99248	0	25614	13332	0	0	0	0	0	0	0	0	15753000	19741000	14884000
TRINITY_DN16901_c2_g1::TRINITY_DN16901_c2_g1_i2::g.75153::m.75153	17644000	4188100	18335000	9950100	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN16836_c1_g3::TRINITY_DN16836_c1_g3_i3::g.74224::m.74224	3024900	1484800	2686000	2011900	834200	445980	1347000	0	6377700	4695800	10642000	10084000	2398500	3025600	980390
TRINITY_DN16865_c3_g3::TRINITY_DN16865_c3_g3_i2::g.74745::m.74745	1139600	336980	1417400	1367200	1983900	1254100	2985600	2451500	3886200	2009200	3900000	8357800	5321700	6701900	6821700
TRINITY_DN18894_c1_g1::TRINITY_DN18894_c1_g1_i9::g.108231::m.108231	414150	215500	817980	1739300	952720	555270	287710	1939000	928030	0	9779500	15436000	4112800	7667500	5039500

TRINITY_DN19186_c1_g1::TRINITY_DN19186_c1_g1_i2::g.113474::m.1134	15478000	1941700	8527500	17930000	0	0	308570	419370	1394900	1008900	1276700	1525100	0	0	0
TRINITY_DN20002_c1_g1::TRINITY_DN20002_c1_g1_i9::g.127794::m.127794	112610	0	18175	189080	0	0	150070	76374	215460	0	0	563040	15848000	19467000	12932000
TRINITY_DN18281_c0_g1::TRINITY_DN18281_c0_g1_i4::g.98025::m.98025	48912000	0	0	0	381880	0	0	0	0	0	0	0	0	0	0
TRINITY_DN13211_c0_g2::TRINITY_DN13211_c0_g2_i3::g.21096::m.21096	173620	22086	65650	0	0	0	157350	0	0	0	0	0	7832400	25189000	15838000
TRINITY_DN10140_c0_g1::TRINITY_DN10140_c0_g1_i2::g.4317::m.4317	1436900	213720	1757900	1200200	3903400	1047000	5406300	1208700	4181600	1248000	5868000	4498200	3718600	8069300	5493300
TRINITY_DN14435_c4_g2::TRINITY_DN14435_c4_g2_i1::g.36484::m.36484	927040	269620	1111100	733510	3266900	914650	3359700	3608600	6029900	4734800	11089000	8616400	1743300	930790	1860100
TRINITY_DN12440_c1_g2::TRINITY_DN12440_c1_g2_i1::g.13039::m.13039	0	0	0	0	116620	0	127090	0	930540	160670	470240	0	12621000	16809000	17664000
TRINITY_DN14413_c0_g1::TRINITY_DN14413_c0_g1_i13::g.36824::m.36824	173560	63242	158230	141900	0	95355	0	309350	0	0	821440	0	14512000	18578000	14023000
TRINITY_DN17675_c2_g3::TRINITY_DN17675_c2_g3_i6::g.88141::m.88141	0	0	0	0	94255	0	0	0	0	0	0	0	14320000	17229000	17176000
TRINITY_DN14025_c2_g1::TRINITY_DN14025_c2_g1_i8::g.31522::m.31522	246360	87543	490070	533370	0	0	0	89165	0	0	0	43615000	1638600	883510	1140500
TRINITY_DN11357_c0_g2::TRINITY_DN11357_c0_g2_i1::g.7096::m.7096	1205600	118850	1147500	885930	980930	2336200	9229600	4645300	4220800	4798100	5457100	10815000	486660	1104500	1199700
TRINITY_DN13606_c2_g2::TRINITY_DN13606_c2_g2_i2::g.26272::m.26272	201980	57270	274180	226330	1180000	788600	916940	1160000	1729000	1304300	1745300	2006100	12459000	8538300	15322000
TRINITY_DN15004_c1_g1::TRINITY_DN15004_c1_g1_i9::g.45691::m.45691	643160	188740	572830	542570	1458600	0	499070	331780	0	963440	210680	912770	12268000	17606000	11658000
TRINITY_DN20046_c4_g1::TRINITY_DN20046_c4_g1_i6::g.128432::m.128432	0	0	0	0	0	0	0	0	0	123640	0	0	17070000	18216000	12428000
TRINITY_DN17290_c1_g1::TRINITY_DN17290_c1_g1_i4::g.81361::m.81361	2830800	336940	2747000	2953000	2880500	27099	6156900	1385600	2705100	6916800	2670700	7810400	513820	3005500	4828700
TRINITY_DN12342_c1_g3::TRINITY_DN12342_c1_g3_i1::g.12105::m.12105	4582100	1364000	5481500	5687100	258350	1372800	4147600	2753100	0	1374400	10672000	5470100	266100	1877400	2153500
TRINITY_DN12893_c0_g1::TRINITY_DN12893_c0_g1_i1::g.17069::m.17069	2397000	425970	466790	1657000	2354000	0	2177200	816190	8952500	3645100	11842000	12702000	0	0	0
TRINITY_DN16995_c1_g3::TRINITY_DN16995_c1_g3_i3::g.76630::m.76630	3264300	800330	2135400	1857000	1076900	1243500	1241300	1336700	0	2298200	5616500	8039600	1789000	7639800	8523500
TRINITY_DN14421_c2_g1::TRINITY_DN14421_c2_g1_i4::g.36938::m.36938	579440	103130	882960	612340	0	550240	0	425670	1066100	814750	1359000	2420000	7345400	11076000	19566000
TRINITY_DN13126_c1_g4::TRINITY_DN13126_c1_g4_i1::g.20159::m.20159	3828100	1350900	4051700	4015200	1985900	485140	1480200	154390	3422600	0	4002500	7423100	2085600	7371900	4573000
TRINITY_DN16509_c1_g1::TRINITY_DN16509_c1_g1_i1::g.68768::m.68768	250000	253760	655080	1023600	343020	370590	830070	1755300	3075300	2524500	2324100	5664300	8328400	9943200	8740900
TRINITY_DN19751_c2_g1::TRINITY_DN19751_c2_g1_i6::g.123209::m.123209	574440	0	818480	823050	104500	260560	1001000	1608700	0	0	702010	350030	11150000	16027000	12283000

TRINITY_DN17891_c2_g1::TRINITY_DN17891_c2_g1_i4::g.91423::m.91423	46012	0	0	0	0	0	0	0	0	0	0	0	13680000	16692000	15175000
TRINITY_DN18954_c0_g3::TRINITY_DN18954_c0_g3_i4::g.109379::m.109379	0	0	71203	219880	645760	273420	1296000	1545900	491880	1364100	2079500	5703500	8550200	14034000	9247100
TRINITY_DN17145_c0_g3::TRINITY_DN17145_c0_g3_i2::g.79319::m.79319	125620	60027	175400	74934	167700	0	0	0	83221	86488	0	0	14800000	14609000	15248000
TRINITY_DN16061_c2_g2::TRINITY_DN16061_c2_g2_i3::g.61317::m.61317	0	0	0	0	0	0	0	0	0	0	0	0	18204000	16419000	10580000
TRINITY_DN19588_c6_g1::TRINITY_DN19588_c6_g1_i5::g.120209::m.120209	408310	92777	484450	614290	209750	168870	641080	449710	368850	638870	533920	701020	14014000	12310000	13496000
TRINITY_DN13159_c0_g1::TRINITY_DN13159_c0_g1_i1::g.20565::m.20565	3521600	1110100	0	2518200	1944300	1466600	2980100	1844900	5849300	0	6917300	6116800	3432600	3803100	3572100
TRINITY_DN13164_c0_g4::TRINITY_DN13164_c0_g4_i1::g.20741::m.20741	1282300	40082	888500	1688600	0	1378200	805420	5131500	4815400	3628600	2004200	8613500	677660	6635600	7443300
TRINITY_DN16361_c1_g1::TRINITY_DN16361_c1_g1_i5::g.66288::m.66288	0	0	0	0	0	0	0	0	0	0	0	0	18674000	17166000	9053900
TRINITY_DN15008_c0_g1::TRINITY_DN15008_c0_g1_i3::g.45737::m.45737	0	0	0	0	0	0	0	0	0	0	0	0	13717000	14136000	16982000
TRINITY_DN17275_c2_g1::TRINITY_DN17275_c2_g1_i6::g.81136::m.81136	29504	0	33394	0	0	0	0	0	0	0	0	0	15587000	15055000	13892000
TRINITY_DN18883_c1_g1::TRINITY_DN18883_c1_g1_i14::g.108273::m.108273	150630	23248	0	90986	0	0	128780	291630	547660	0	532280	0	13294000	16070000	13425000
TRINITY_DN14831_c2_g1::TRINITY_DN14831_c2_g1_i4::g.42949::m.42949	4543900	979770	4087600	3246300	2253700	0	4591700	3437600	8220000	616670	5346900	6216900	134610	0	0
TRINITY_DN17427_c0_g1::TRINITY_DN17427_c0_g1_i16::g.83642::m.83642	704650	129330	1077500	554210	1968500	1029500	3274800	916620	6020400	5665600	8363100	13348000	272060	154670	0
TRINITY_DN19711_c3_g1::TRINITY_DN19711_c3_g1_i1::g.122630::m.122630	3427100	787820	3473900	4025600	888440	0	606900	2734400	2808300	0	5230900	7614200	2230800	4055600	5503500
TRINITY_DN19077_c0_g1::TRINITY_DN19077_c0_g1_i1::g.111277::m.111277	535760	48275	730560	395910	1622600	552310	1513700	1794300	3003500	0	5800200	7897800	4106700	8015300	7358600
TRINITY_DN13164_c0_g2::TRINITY_DN13164_c0_g2_i1::g.20739::m.20739	559360	91771	2401400	892550	0	0	279030	0	677950	1195700	16360000	16107000	729460	1761800	1650900
TRINITY_DN20023_c4_g2::TRINITY_DN20023_c4_g2_i4::g.127985::m.127985	348690	47087	357510	246060	0	34709	0	53920	0	0	0	0	13279000	12003000	16213000
TRINITY_DN18086_c1_g2::TRINITY_DN18086_c1_g2_i3::g.94830::m.94830	3416500	1700200	5252500	3989900	7338800	3998700	7153100	8035400	0	0	0	0	558810	688360	259310
TRINITY_DN13268_c1_g1::TRINITY_DN13268_c1_g1_i7::g.21886::m.21886	0	0	0	0	0	0	0	0	0	0	606290	0	13129000	10503000	18061000
TRINITY_DN12877_c0_g1::TRINITY_DN12877_c0_g1_i2::g.16745::m.16745	2176000	894840	3208800	2934000	2647400	1751400	3833600	4438300	3385400	3830500	6593300	5267700	439750	461720	339700

TRINITY_DN15082_c2_g5::TRINITY_DN15082_c2_g5_i1::g.46709::m.46709	1578900	363830	1579300	1537600	2174900	1945100	2896100	3752100	5910700	3346500	6445700	8464300	668690	640100	775080
TRINITY_DN17469_c0_g1::TRINITY_DN17469_c0_g1_i8::g.84329::m.84329	0	0	0	47045	398430	0	550880	412180	0	0	1450800	2948700	14528000	6948000	14771000
TRINITY_DN16031_c0_g3::TRINITY_DN16031_c0_g3_i1::g.60905::m.60905	1483000	373090	1976900	1645700	2153100	627830	2946400	2832200	4318000	3111500	4398300	6408500	1861900	5133700	2668700
TRINITY_DN13415_c1_g3::TRINITY_DN13415_c1_g3_i4::g.23607::m.23607	140770	0	107440	44419	90405	54376	325930	161300	412680	154440	0	0	11559000	15389000	13242000
TRINITY_DN13872_c1_g1::TRINITY_DN13872_c1_g1_i2::g.29678::m.29678	1356600	267400	1882800	1355700	1082100	673300	795960	543250	2388000	3298700	4662100	9999300	3931700	2645800	6496400
TRINITY_DN14508_c8_g1::TRINITY_DN14508_c8_g1_i4::g.38373::m.38373	1946300	855660	2395400	1943700	592010	166960	3396400	2340900	1432400	5614800	9043700	8368600	788460	770190	1698800
TRINITY_DN15591_c0_g2::TRINITY_DN15591_c0_g2_i2::g.54135::m.54135	0	0	0	0	0	0	0	0	0	0	0	0	14104000	13424000	13645000
TRINITY_DN19628_c3_g1::TRINITY_DN19628_c3_g1_i3::g.121141::m.121141	101980	0	337000	0	1567100	846390	2301900	1500500	4634600	2634500	3119900	4595300	4935000	10079000	4482000
TRINITY_DN19415_c0_g3::TRINITY_DN19415_c0_g3_i1::g.117477::m.117477	1956500	0	2090100	1296500	1617400	393780	0	1580000	5703200	3524400	10138000	8201300	1086700	1345300	2093300
TRINITY_DN19617_c3_g3::TRINITY_DN19617_c3_g3_i8::g.121273::m.121273	2169600	639740	2752600	2687000	1309200	187300	2019700	926880	4740800	527910	1487600	12171000	1827000	3805300	3684700
TRINITY_DN15317_c1_g1::TRINITY_DN15317_c1_g1_i5::g.50064::m.50064	2338500	245360	775170	719770	946660	1486000	1457200	1753500	8048400	8448000	1528900	1870700	2539200	4806900	3757000
TRINITY_DN18894_c1_g1::TRINITY_DN18894_c1_g1_i5::g.108225::m.108225	857510	425760	1147800	0	3281000	0	2665700	1944800	1438900	419320	1724200	1895200	5351100	9654000	9238600
TRINITY_DN17857_c0_g1::TRINITY_DN17857_c0_g1_i1::g.90819::m.90819	106610	21061	59102	135600	367510	167180	0	701710	226630	546450	1186600	1318900	8631900	13573000	12850000
TRINITY_DN19979_c5_g4::TRINITY_DN19979_c5_g4_i2::g.127014::m.127014	1109400	376290	1201200	1157000	2755800	1414000	3428100	3420400	0	3577700	6045800	9177700	2187100	1608700	2332300
TRINITY_DN18581_c2_g1::TRINITY_DN18581_c2_g1_i1::g.102861::m.1028	274230	0	125420	448070	2107700	996580	1941000	0	3176200	2067100	15214000	12067000	157970	712090	304940
TRINITY_DN19014_c2_g2::TRINITY_DN19014_c2_g2_i4::g.110567::m.110567	0	0	0	0	0	0	0	0	224800	0	0	627280	13794000	15742000	8943900
TRINITY_DN19846_c6_g2::TRINITY_DN19846_c6_g2_i1::g.124494::m.124494	735370	139130	1058800	729400	2572000	1557400	3194200	2860100	5955300	3570300	7167700	8190400	379870	567490	422420
TRINITY_DN12374_c0_g1::TRINITY_DN12374_c0_g1_i5::g.12261::m.12261	64474	0	59344	0	0	0	0	0	0	0	0	0	10562000	15644000	12744000
TRINITY_DN14238_c0_g1::TRINITY_DN14238_c0_g1_i3::g.34351::m.34351	929540	346550	1154700	1096300	1665200	0	526010	2888200	7389400	3808400	7094900	5928300	1339800	2714600	2109400
TRINITY_DN17147_c0_g1::TRINITY_DN17147_c0_g1_i4::g.79344::m.79344	1621300	474400	1893000	1650200	3584800	1752200	4253200	4276000	2787000	3451000	7149700	6098300	0	0	0

TRINITY_DN12441_c0_g1::TRINITY_DN12441_c0_g1_i1::g.12899::m.12899	1462700	629240	3088000	1164400	2526100	410590	2947400	1041600	5423000	2823300	10998000	6320400	0	125000	0
TRINITY_DN12614_c0_g1::TRINITY_DN12614_c0_g1_i2::g.14256::m.14256	190010	44720	517990	293060	719510	150660	403150	172890	444570	1141600	1087900	1204600	9819500	12487000	10283000
TRINITY_DN11552_c0_g1::TRINITY_DN11552_c0_g1_i1::g.7817::m.7817	0	0	0	0	0	0	0	119080	265080	0	0	38054000	0	0	267460
TRINITY_DN15353_c0_g3::TRINITY_DN15353_c0_g3_i2::g.50015::m.50015	1233300	558820	1253900	1166700	1733100	994290	4122600	2012200	1476900	2233800	9449000	3527600	2623600	3029200	3148000
TRINITY_DN17847_c0_g1::TRINITY_DN17847_c0_g1_i7::g.90759::m.90759	257190	126880	131550	111910	106940	0	495710	216410	1029200	0	1592200	0	7733800	12520000	14213000
TRINITY_DN17899_c1_g1::TRINITY_DN17899_c1_g1_i20::g.90008::m.90008	1006400	227400	1235500	1076100	706760	263810	621250	233670	0	0	2425700	2912300	9493900	11124000	7114200
TRINITY_DN11696_c0_g1::TRINITY_DN11696_c0_g1_i4::g.8428::m.8428	1179400	185300	1515000	1225200	1353100	1096400	3312400	3636500	4410700	4008800	5937300	9230300	283730	724310	318150
TRINITY_DN13436_c3_g1::TRINITY_DN13436_c3_g1_i7::g.23925::m.23925	167810	69607	227260	235550	0	0	461260	784730	665800	0	0	985740	10139000	12932000	11664000
TRINITY_DN19395_c0_g1::TRINITY_DN19395_c0_g1_i9::g.117248::m.117248	2067200	276710	1710900	870130	1248000	626310	2757300	2881300	5623000	605730	5419900	5460400	2485100	3074000	2990900
TRINITY_DN17244_c0_g1::TRINITY_DN17244_c0_g1_i3::g.79946::m.79946	1374800	372580	846560	802150	2959300	233810	2188000	1015700	4438700	3967100	6707300	12011000	152690	185290	830170
TRINITY_DN11876_c0_g1::TRINITY_DN11876_c0_g1_i1::g.9282::m.9282	0	0	0	0	0	0	0	0	0	0	0	0	0	20534000	17470000
TRINITY_DN17448_c2_g2::TRINITY_DN17448_c2_g2_i8::g.83900::m.83900	0	0	89190	302060	1917200	0	2083100	1407900	6020300	803150	1372500	1600900	5876100	9188100	7174400
TRINITY_DN13409_c1_g1::TRINITY_DN13409_c1_g1_i8::g.23419::m.23419	89449	57447	221350	330630	0	86091	510290	548980	0	369900	335200	386060	12933000	7468000	14271000
TRINITY_DN13221_c2_g1::TRINITY_DN13221_c2_g1_i1::g.21206::m.21206	0	0	0	0	0	0	0	0	0	0	0	0	10524000	13435000	13252000
TRINITY_DN13244_c2_g1::TRINITY_DN13244_c2_g1_i6::g.21528::m.21528	57379	0	0	0	182650	0	0	166810	1148600	1981500	5203000	4069400	6332000	9497800	8268500
TRINITY_DN18545_c0_g2::TRINITY_DN18545_c0_g2_i6::g.102386::m.102386	96841	0	0	23717	0	47385	112680	111510	0	0	215940	303960	11954000	9854500	14134000
TRINITY_DN11123_c0_g1::TRINITY_DN11123_c0_g1_i4::g.6381::m.6381	929830	279030	1097900	1069700	1297400	595770	3298500	2025800	2606800	5005900	10911000	5462800	0	0	2072100
TRINITY_DN17109_c1_g4::TRINITY_DN17109_c1_g4_i1::g.78802::m.78802	0	0	0	0	0	0	0	0	0	0	0	0	13623000	13593000	9401400
TRINITY_DN14091_c1_g2::TRINITY_DN14091_c1_g2_i1::g.32197::m.32197	0	0	0	0	0	0	0	0	0	0	0	0	10153000	15677000	10381000
TRINITY_DN12452_c0_g1::TRINITY_DN12452_c0_g1_i1::g.12978::m.12978	1567400	380270	1937500	1395700	1033700	0	2931200	1513000	2531200	2481200	4421300	4185900	3967500	4252000	3538600
TRINITY_DN18521_c6_g6::TRINITY_DN18521_c6_g6_i1::g.101903::m.101903	1117000	312200	2901300	2351500	2236900	812910	2254600	1241700	6076400	1532200	8122900	6512600	645530	0	0

TRINITY_DN19436_c2_g1::TRINITY_DN19436_c2_g1_i4::g.118041::m.118041	2260000	718760	1909800	2224300	1362700	149900	669140	1283500	4014800	2785700	6869600	5240200	1960100	2246100	1871800
TRINITY_DN17420_c0_g1::TRINITY_DN17420_c0_g1_i7::g.83574::m.83574	543730	228070	214380	814290	657220	3022200	6189900	0	0	2966000	1659600	3550300	5803200	5921600	3595600
TRINITY_DN18973_c0_g1::TRINITY_DN18973_c0_g1_i1::g.109653::m.109653	0	0	0	0	0	0	0	0	0	0	0	0	11816000	13794000	9478700
TRINITY_DN11465_c0_g1::TRINITY_DN11465_c0_g1_i2::g.7454::m.7454	926090	357050	1650300	1874500	1532500	276300	1078200	933260	3656100	1814500	4665300	11373000	1549600	1654900	1676300
TRINITY_DN16317_c2_g1::TRINITY_DN16317_c2_g1_i4::g.65631::m.65631	1194500	513000	1212100	1387800	852930	633860	396620	1685400	3334900	1679500	4270300	3681400	3310800	6389400	4471000
TRINITY_DN16236_c1_g2::TRINITY_DN16236_c1_g2_i1::g.64353::m.64353	252270	0	264700	338380	0	0	461740	0	0	0	0	0	16274000	9416100	7936900
TRINITY_DN12721_c0_g3::TRINITY_DN12721_c0_g3_i6::g.15362::m.15362	1785300	497790	2011900	1637800	1503500	861820	2096000	1660300	3306200	2512200	9848700	3981600	560640	1426100	710010
TRINITY_DN13179_c1_g3::TRINITY_DN13179_c1_g3_i2::g.20801::m.20801	1883400	566810	2133700	1681100	0	654310	2016000	0	6745600	5438000	6022100	2615100	2126700	110570	2365400
TRINITY_DN13823_c0_g2::TRINITY_DN13823_c0_g2_i2::g.29073::m.29073	44842	24068	62670	57600	1299100	353240	1448700	0	0	0	0	0	8169500	11405000	11419000
TRINITY_DN18057_c0_g3::TRINITY_DN18057_c0_g3_i1::g.94357::m.94357	125090	52926	70155	45634	0	0	0	0	0	0	0	0	10850000	10856000	12075000
TRINITY_DN12273_c2_g3::TRINITY_DN12273_c2_g3_i1::g.11683::m.11683	254440	0	926350	529310	0	0	0	1171500	1297800	800160	5193500	6030800	2844200	9299200	5690300
TRINITY_DN14391_c2_g2::TRINITY_DN14391_c2_g2_i2::g.36282::m.36282	267970	0	1007300	178940	0	476690	0	0	4148800	0	5799500	6407700	5193400	5406300	5128300
TRINITY_DN18947_c6_g2::TRINITY_DN18947_c6_g2_i2::g.109306::m.109306	2311200	987330	3040400	2246100	1809400	1144600	0	2698100	3881900	3479900	4646100	7700800	0	0	0
TRINITY_DN18272_c2_g1::TRINITY_DN18272_c2_g1_i1::g.97904::m.97904	290410	96647	349200	266490	126990	0	0	126470	0	0	625410	0	3992800	15786000	12269000
TRINITY_DN17506_c1_g1::TRINITY_DN17506_c1_g1_i6::g.84994::m.84994	0	0	0	0	0	0	0	0	0	0	123070	0	11326000	5159600	17152000
TRINITY_DN17662_c4_g1::TRINITY_DN17662_c4_g1_i8::g.87880::m.87880	1169600	469770	1460400	2156000	572010	318340	373720	415070	4945100	1583800	5943100	8953600	610830	1558300	2571400
TRINITY_DN12028_c1_g1::TRINITY_DN12028_c1_g1_i1::g.9901::m.9901	4951200	684470	6675500	1196700	268750	158940	351360	0	6186400	4803100	6480300	0	306560	389640	388890
TRINITY_DN18870_c1_g1::TRINITY_DN18870_c1_g1_i1::g.107725::m.107725	2299100	0	2509000	1845900	3918100	781770	1604200	2670700	2270600	3514500	5550800	5559100	74615	98021	74850
TRINITY_DN17060_c1_g1::TRINITY_DN17060_c1_g1_i4::g.77740::m.77740	0	0	0	0	0	0	0	0	0	0	0	0	11836000	10663000	10264000
TRINITY_DN14188_c2_g2::TRINITY_DN14188_c2_g2_i3::g.32373::m.32373	51025	0	42841	66554	82009	0	0	127340	0	0	171320	277790	8639500	15614000	7631800

TRINITY_DN18239_c4_g4::TRINITY_DN18239_c4_g4_i1::g.97381::m.97381	0	0	0	0	0	0	0	0	0	0	0	0	10005000	13327000	9338000
TRINITY_DN19251_c1_g2::TRINITY_DN19251_c1_g2_i24::g.114984::m.114984	0	0	0	0	0	0	0	0	0	0	0	0	7579000	15460000	9463900
TRINITY_DN18181_c1_g1::TRINITY_DN18181_c1_g1_i2::g.96439::m.96439	951910	287610	1696500	1098900	1883000	317990	2989100	1279300	5504800	4706300	3836100	7134500	351150	354470	0
TRINITY_DN15085_c0_g2::TRINITY_DN15085_c0_g2_i3::g.46604::m.46604	1755200	318120	2029200	2124000	0	310020	76291	586260	0	1355900	2932700	5549300	4432800	5268500	5440200
TRINITY_DN14405_c4_g1::TRINITY_DN14405_c4_g1_i11::g.36585::m.36585	92919	0	158170	75908	156040	0	520760	154250	1300700	529460	964010	1228000	10231000	7554800	8991800
TRINITY_DN20037_c6_g1::TRINITY_DN20037_c6_g1_i4::g.128163::m.128163	143160	0	34074	34517	0	684310	2480800	1155900	6503300	4886300	9727500	6222600	0	0	0
TRINITY_DN16369_c2_g2::TRINITY_DN16369_c2_g2_i2::g.66506::m.66506	440860	88716	625830	0	0	0	528780	0	0	0	1899000	1912600	6239700	13334000	6769400
TRINITY_DN19409_c5_g1::TRINITY_DN19409_c5_g1_i1::g.117472::m.117472	2096600	630120	2461300	2520000	287870	685980	1674500	1609100	3976100	2187800	3743900	4595300	1740000	1968900	1623900
TRINITY_DN15357_c0_g1::TRINITY_DN15357_c0_g1_i2::g.50651::m.50651	0	0	0	0	0	0	0	0	0	0	0	0	10184000	11892000	9668300
TRINITY_DN17150_c2_g1::TRINITY_DN17150_c2_g1_i1::g.79329::m.79329	149300	0	368690	169860	0	211780	0	0	451130	273360	1470900	1037500	7674400	10078000	9723200
TRINITY_DN16201_c0_g1::TRINITY_DN16201_c0_g1_i1::g.62689::m.62689	0	0	0	0	0	0	0	0	0	0	0	0	8373600	8097800	15118000
TRINITY_DN14972_c1_g2::TRINITY_DN14972_c1_g2_i4::g.44982::m.44982	1615400	503080	1798300	1275000	1056400	536610	1832700	1005900	3355700	2860100	6779000	7358900	432420	266680	809830
TRINITY_DN14986_c2_g1::TRINITY_DN14986_c2_g1_i1::g.45365::m.45365	677850	568270	1118800	644890	1562800	908020	925060	1434300	4955000	4087300	6412700	6573400	489340	530120	437930
TRINITY_DN15394_c0_g2::TRINITY_DN15394_c0_g2_i6::g.49878::m.49878	0	37298	87997	217880	651120	0	376460	394490	274260	0	646720	391060	9034100	7988100	11017000
TRINITY_DN11523_c0_g1::TRINITY_DN11523_c0_g1_i1::g.7740::m.7740	0	0	0	0	0	0	0	0	0	0	0	0	10245000	13567000	6972200
TRINITY_DN14718_c0_g2::TRINITY_DN14718_c0_g2_i3::g.41293::m.41293	660470	0	707550	530600	355870	0	568310	413120	647770	0	3043000	1010300	7041100	8889100	6791600
TRINITY_DN14157_c2_g1::TRINITY_DN14157_c2_g1_i3::g.33123::m.33123	3147200	1191200	2654400	2484500	605040	434560	2882100	2059500	1446300	812430	2223000	5451600	2642000	1445200	1152500
TRINITY_DN13422_c4_g1::TRINITY_DN13422_c4_g1_i9::g.23675::m.23675	405620	138780	635220	400290	311970	0	0	0	571180	0	542960	414000	6496500	10277000	10166000
TRINITY_DN17973_c0_g2::TRINITY_DN17973_c0_g2_i4::g.92495::m.92495	0	125770	508550	294580	0	0	629150	0	0	0	0	0	6636900	12313000	9846600
TRINITY_DN14213_c1_g1::TRINITY_DN14213_c1_g1_i6::g.33993::m.33993	120960	33159	223610	222740	0	0	0	46720	0	0	202440	261020	9599500	9811700	9789600

TRINITY_DN15873_c1_g1::TRINITY_DN15873_c1_g1_i7::g.58225::m.58225	0	0	13373000	0	0	0	16727000	0	0	0	0	0	0	0	0
TRINITY_DN12030_c0_g1::TRINITY_DN12030_c0_g1_i2::g.10080::m.10080	687700	231340	550380	1076600	2420700	907680	2006500	2926400	3341700	564670	4153200	7920400	338460	1446700	1376100
TRINITY_DN16055_c0_g3::TRINITY_DN16055_c0_g3_i1::g.61219::m.61219	787300	213140	992510	856580	194700	155750	579170	316450	1237800	1489000	2180300	7067500	3807000	3954700	6030400
TRINITY_DN16644_c3_g1::TRINITY_DN16644_c3_g1_i4::g.70221::m.70221	344860	51183	35062	0	0	255740	589170	71181	0	0	0	1106800	9381400	10847000	7104600
TRINITY_DN17145_c0_g4::TRINITY_DN17145_c0_g4_i1::g.79322::m.79322	433390	125870	450910	493630	0	0	199230	141890	1178800	649990	0	0	6945100	12726000	6263400
TRINITY_DN12499_c2_g2::TRINITY_DN12499_c2_g2_i3::g.13408::m.13408	49529	0	0	0	0	0	0	0	0	0	0	0	4421500	13464000	11640000
TRINITY_DN27272_c0_g1::TRINITY_DN27272_c0_g1_i1::g.129628::m.129628	0	0	2208400	2247500	0	1784800	4016200	2682600	6624400	0	9967200	0	0	0	0
TRINITY_DN18903_c0_g1::TRINITY_DN18903_c0_g1_i9::g.108678::m.108678	0	0	0	0	0	0	0	0	0	0	0	0	0	2989600	26510000
TRINITY_DN19948_c1_g1::TRINITY_DN19948_c1_g1_i4::g.126476::m.126476	1853900	329860	1552900	2174900	323990	470990	377830	692580	2278500	827740	415430	6856500	4658700	4748800	1907900
TRINITY_DN15893_c1_g2::TRINITY_DN15893_c1_g2_i6::g.57605::m.57605	27180	0	154790	65357	0	0	143760	0	0	0	0	0	8805800	11951000	8307800
TRINITY_DN18003_c1_g3::TRINITY_DN18003_c1_g3_i3::g.93450::m.93450	0	0	72691	150390	598590	266320	586430	474610	606180	451880	426170	554690	10413000	7958600	6819700
TRINITY_DN17070_c2_g4::TRINITY_DN17070_c2_g4_i5::g.77858::m.77858	154660	101360	0	0	289410	99356	598200	0	667700	796460	1350100	308810	4958600	10631000	9328300
TRINITY_DN10166_c0_g1::TRINITY_DN10166_c0_g1_i3::g.4379::m.4379	598210	196050	633000	718340	328120	0	0	0	710160	417760	964050	4818300	6816000	4652900	8367300
TRINITY_DN19812_c4_g1::TRINITY_DN19812_c4_g1_i1::g.124051::m.124051	189060	54250	257600	95497	1150600	427920	1189700	1212700	2005600	369160	370540	3269900	3412000	10208000	4973900
TRINITY_DN11760_c0_g1::TRINITY_DN11760_c0_g1_i1::g.8722::m.8722	33997	63329	125250	160770	495560	389540	370270	823170	792390	0	1732100	859940	8061500	4403800	10804000
TRINITY_DN20022_c3_g3::TRINITY_DN20022_c3_g3_i3::g.128023::m.128023	5104200	243410	4973200	4657000	3210300	0	7596800	3241900	0	0	0	0	0	0	0
TRINITY_DN16751_c0_g2::TRINITY_DN16751_c0_g2_i11::g.72773::m.72773	785870	106180	893560	679110	155120	0	0	415360	472610	0	0	912220	5301000	8831600	10315000
TRINITY_DN15089_c0_g1::TRINITY_DN15089_c0_g1_i2::g.46688::m.46688	0	0	0	0	0	0	0	0	0	0	0	0	6429400	11363000	11022000
TRINITY_DN13431_c11_g1::TRINITY_DN13431_c11_g1_i1::g.23860::m.23860	0	0	0	0	0	0	0	0	0	0	0	0	9884500	9645400	8781300
TRINITY_DN16209_c0_g5::TRINITY_DN16209_c0_g5_i1::g.64031::m.64031	0	0	0	0	0	0	0	0	0	0	0	0	15182000	4739000	8367000

TRINITY_DN18640_c0_g2::TRINITY_DN18640_c0_g2_i8::g.103688::m.103688	463210	245360	596700	332890	4147300	401810	1886500	2288900	2684900	2416500	4279400	5843500	722160	1496100	459480
TRINITY_DN11955_c0_g1::TRINITY_DN11955_c0_g1_i1::g.9671::m.9671	0	0	0	0	0	0	0	0	0	0	0	0	7964300	9561900	10553000
TRINITY_DN19422_c2_g1::TRINITY_DN19422_c2_g1_i9::g.117599::m.117599	0	0	0	0	0	0	0	0	0	0	0	0	11178000	2254800	14637000
TRINITY_DN19041_c0_g1::TRINITY_DN19041_c0_g1_i8::g.110918::m.110918	1872000	438980	1379700	1571000	313040	256520	1105200	222590	1030300	423490	0	5114500	4379200	4858100	4989400
TRINITY_DN18551_c0_g2::TRINITY_DN18551_c0_g2_i5::g.102562::m.102562	0	38074	0	0	0	0	0	0	0	0	0	0	4968200	5113800	17827000
TRINITY_DN18727_c2_g1::TRINITY_DN18727_c2_g1_i8::g.105290::m.105290	0	0	0	0	0	0	0	0	0	0	0	0	199380	14616000	12897000
TRINITY_DN14879_c3_g4::TRINITY_DN14879_c3_g4_i1::g.43729::m.43729	707660	207950	1066000	789680	0	127890	288750	187690	144130	773400	1573500	1587700	6647500	7752800	5840300
TRINITY_DN19715_c1_g1::TRINITY_DN19715_c1_g1_i2::g.122707::m.122707	0	0	0	0	0	0	0	0	0	0	0	0	9313500	8825000	9306200
TRINITY_DN11725_c0_g2::TRINITY_DN11725_c0_g2_i1::g.8540::m.8540	0	72055	197090	232350	0	124180	2001600	1795900	0	0	2072100	5107200	3116600	9752900	2877100
TRINITY_DN16136_c0_g1::TRINITY_DN16136_c0_g1_i4::g.62642::m.62642	0	0	0	0	0	0	0	0	0	0	0	0	5628100	14906000	6800200
TRINITY_DN19182_c1_g1::TRINITY_DN19182_c1_g1_i6::g.113457::m.113457	200610	95347	328900	279190	105820	125640	368560	111130	773880	439680	1610900	3235400	5882500	6965200	6798600
TRINITY_DN16339_c2_g1::TRINITY_DN16339_c2_g1_i6::g.65997::m.65997	1964000	692440	1646300	1755600	300390	0	484020	1334600	3154900	1865900	3608200	7284200	748930	1588000	861820
TRINITY_DN18576_c1_g1::TRINITY_DN18576_c1_g1_i10::g.101619::m.101619	0	0	0	0	0	0	0	0	0	0	0	0	9471400	9457200	8198800
TRINITY_DN11411_c0_g1::TRINITY_DN11411_c0_g1_i2::g.7300::m.7300	0	0	0	0	0	0	0	0	0	0	0	0	8536300	9400900	9143300
TRINITY_DN14869_c3_g5::TRINITY_DN14869_c3_g5_i3::g.43830::m.43830	77706	50458	697340	62469	1946100	721780	762380	1227400	2804300	1824700	2765000	3457800	1459500	3879400	5331300
TRINITY_DN12162_c0_g1::TRINITY_DN12162_c0_g1_i2::g.10879::m.10879	2131600	915330	2676000	2086000	2992000	472420	709680	1937400	2472700	1867800	3395500	0	1479000	2503300	1334700
TRINITY_DN15457_c4_g1::TRINITY_DN15457_c4_g1_i5::g.52200::m.52200	118190	0	97051	48934	0	0	0	0	0	0	0	0	8230700	2686900	15771000
TRINITY_DN13171_c0_g1::TRINITY_DN13171_c0_g1_i3::g.20617::m.20617	0	0	0	0	0	0	0	0	0	0	0	0	7233600	9110200	10602000
TRINITY_DN19704_c1_g1::TRINITY_DN19704_c1_g1_i9::g.122571::m.122571	0	0	0	0	0	117990	203770	121080	847540	0	0	628410	7831700	6671400	10401000
TRINITY_DN13284_c1_g1::TRINITY_DN13284_c1_g1_i7::g.21970::m.21970	958940	151950	1342700	2099000	0	495410	0	0	1214600	0	0	4027800	4909900	4994600	6549200
TRINITY_DN17067_c1_g1::TRINITY_DN17067_c1_g1_i1::g.77883::m.77883	0	0	35742	0	0	0	0	0	0	220920	0	0	7230800	10161000	9087300
TRINITY_DN12343_c1_g1::TRINITY_DN12343_c1_g1_i5::g.11822::m.11822	0	0	0	0	0	0	0	0	0	0	0	0	8845700	7710100	10144000

TRINITY_DN16029_c2_g3::TRINITY_DN16029_c2_g3_i1::g.61032::m.61032	373580	137730	226290	436340	1490700	329570	1140400	382530	2550700	1154600	1739500	3538700	3509300	5197200	4483800
TRINITY_DN12608_c0_g1::TRINITY_DN12608_c0_g1_i2::g.14177::m.14177	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26510000
TRINITY_DN18182_c1_g1::TRINITY_DN18182_c1_g1_i5::g.96464::m.96464	0	0	76095	0	0	35842	122750	0	315080	0	379380	0	10568000	4598200	10267000
TRINITY_DN15675_c5_g2::TRINITY_DN15675_c5_g2_i2::g.55536::m.55536	0	0	0	0	0	0	0	0	0	0	0	0	7957000	9442800	8913000
TRINITY_DN15276_c1_g1::TRINITY_DN15276_c1_g1_i6::g.49461::m.49461	368020	336710	958120	858440	928070	292640	1258400	1362200	989670	1188500	3797700	2640500	4656700	5631800	1021200
TRINITY_DN18360_c0_g2::TRINITY_DN18360_c0_g2_i3::g.99190::m.99190	476530	34297	626180	555180	0	1387600	832090	2691900	3136100	1808300	2120900	3432200	1971200	3569200	3406600
TRINITY_DN12711_c1_g1::TRINITY_DN12711_c1_g1_i2::g.15227::m.15227	628170	392260	953680	771110	1958400	623850	1359600	713120	0	748120	1806300	2816600	4858900	4748000	3512500
TRINITY_DN15771_c0_g2::TRINITY_DN15771_c0_g2_i3::g.56846::m.56846	169060	68231	434930	215130	0	189660	0	295450	385910	0	0	245870	5993300	5653800	12089000
TRINITY_DN12201_c0_g1::TRINITY_DN12201_c0_g1_i3::g.10701::m.10701	62428	0	20656	31270	244960	133430	0	0	0	0	0	1127200	6957900	8139500	9009500
TRINITY_DN13903_c0_g3::TRINITY_DN13903_c0_g3_i6::g.30258::m.30258	346460	20506	270860	771370	0	267510	388750	80457	2589900	0	999950	1188200	5151900	7405900	6150000
TRINITY_DN16875_c1_g2::TRINITY_DN16875_c1_g2_i1::g.74175::m.74175	648560	89614	1047700	632270	899600	869760	1895700	927170	1590200	309160	4074400	5380800	2265700	3082500	1866900
TRINITY_DN12880_c1_g2::TRINITY_DN12880_c1_g2_i3::g.16816::m.16816	0	0	0	0	0	0	0	0	0	0	0	0	8623500	6656300	10294000
TRINITY_DN12853_c0_g1::TRINITY_DN12853_c0_g1_i3::g.16604::m.16604	0	0	0	0	0	0	0	0	0	0	0	0	6609300	10237000	8591300
TRINITY_DN15811_c0_g2::TRINITY_DN15811_c0_g2_i2::g.57329::m.57329	16471	0	86595	82763	320850	0	0	0	158960	0	227260	481850	7212400	8959100	7718500
TRINITY_DN12588_c4_g1::TRINITY_DN12588_c4_g1_i6::g.14071::m.14071	171210	0	194340	166340	1684900	0	1029500	1172000	1280500	0	3122000	7173800	2935500	3289800	2860700
TRINITY_DN18157_c0_g1::TRINITY_DN18157_c0_g1_i6::g.96079::m.96079	1043500	274120	1058700	938760	601520	328740	263230	675830	2140200	0	3188100	4385500	2827600	3965900	3361000
TRINITY_DN18306_c2_g1::TRINITY_DN18306_c2_g1_i6::g.98737::m.98737	1461900	648530	1461500	4699100	2262800	0	978720	2920800	0	3537300	6945600	0	125980	0	0
TRINITY_DN17921_c2_g1::TRINITY_DN17921_c2_g1_i7::g.92112::m.92112	1151400	300830	1104400	1385800	1135700	355380	811950	917460	1514400	343360	1222600	2662000	1792000	5728900	4584900
TRINITY_DN15585_c1_g1::TRINITY_DN15585_c1_g1_i4::g.54306::m.54306	1520700	69619	1679800	1509000	331060	385830	385080	948340	1790400	484900	2569400	7938700	1108800	1688500	2436100
TRINITY_DN12563_c5_g1::TRINITY_DN12563_c5_g1_i1::g.13894::m.13894	46644	0	82873	67216	0	0	0	0	0	101710	0	0	6136600	11551000	6835900
TRINITY_DN14141_c0_g1::TRINITY_DN14141_c0_g1_i5::g.32827::m.32827	0	0	0	0	0	0	0	0	0	0	0	0	7763700	7448100	9585900
TRINITY_DN19864_c2_g6::TRINITY_DN19864_c2_g6_i4::g.124630::m.124630	439750	389190	1342500	1378000	1512300	478960	1759300	1229400	2217600	1917900	5618100	4783700	703230	821460	203960

TRINITY_DN15673_c2_g2::TRINITY_DN15673_c2_g2_i2::g.55381::m.55381	0	0	0	0	0	0	0	0	0	0	248600	168560	11158000	4485000	8702400
TRINITY_DN15521_c0_g1::TRINITY_DN15521_c0_g1_i5::g.53143::m.53143	175140	44185	138830	100500	0	0	0	0	0	0	452120	0	10157000	5677800	7994500
TRINITY_DN14108_c0_g1::TRINITY_DN14108_c0_g1_i6::g.32445::m.32445	79249	0	764260	0	834910	96791	511840	218910	3115000	2498200	3975200	3043200	3142700	2572800	3495200
TRINITY_DN13599_c0_g2::TRINITY_DN13599_c0_g2_i3::g.24684::m.24684	619480	220400	595030	648730	580540	0	0	610140	0	0	0	0	5829100	9899300	5203300
TRINITY_DN12431_c0_g1::TRINITY_DN12431_c0_g1_i5::g.12785::m.12785	0	0	0	0	0	0	239100	0	0	0	456330	0	8881200	5261000	9271400
TRINITY_DN15315_c0_g3::TRINITY_DN15315_c0_g3_i4::g.50023::m.50023	191980	34397	254070	237800	297640	0	141550	61790	236770	105720	546920	933440	6126100	7801300	7099600
TRINITY_DN13825_c0_g1::TRINITY_DN13825_c0_g1_i1::g.28844::m.28844	0	0	0	0	0	0	3040100	1819200	0	3583800	6956800	8113900	0	0	417710
TRINITY_DN11213_c0_g1::TRINITY_DN11213_c0_g1_i2::g.6642::m.6642	0	0	0	0	340140	0	73750	0	0	0	355770	0	9147700	6346200	7658000
TRINITY_DN19530_c3_g1::TRINITY_DN19530_c3_g1_i3::g.119253::m.119253	0	0	0	0	0	0	0	0	0	0	0	0	8153100	7219300	8370800
TRINITY_DN16101_c1_g1::TRINITY_DN16101_c1_g1_i2::g.61978::m.61978	0	0	0	0	0	0	0	0	0	0	111990	0	7786500	7863900	7861000
TRINITY_DN16024_c0_g2::TRINITY_DN16024_c0_g2_i5::g.60694::m.60694	26407	0	0	58595	0	0	0	0	0	0	0	0	7419900	11065000	5020500
TRINITY_DN11097_c0_g1::TRINITY_DN11097_c0_g1_i1::g.6303::m.6303	200890	21513	583300	164260	453530	378250	1622800	405770	1216200	181790	4423600	5199700	3035700	4128900	1525100
TRINITY_DN18581_c2_g2::TRINITY_DN18581_c2_g2_i8::g.102871::m.102871	0	1154500	3592600	0	0	0	1475200	1046800	3167900	0	9045000	3444400	0	462290	0
TRINITY_DN15963_c2_g1::TRINITY_DN15963_c2_g1_i4::g.59609::m.59609	564170	250060	858070	668810	2224700	1166700	0	1733800	6150900	1266500	2557000	4861100	189470	445930	322000
TRINITY_DN18878_c2_g2::TRINITY_DN18878_c2_g2_i9::g.108021::m.108021	23147000	0	0	0	0	0	0	0	0	0	0	0	0	0	83674
TRINITY_DN12332_c0_g1::TRINITY_DN12332_c0_g1_i2::g.11982::m.11982	518180	378670	788870	527070	1837600	192020	2125400	1603800	2384100	2210000	4610600	4712800	0	1028700	298200
TRINITY_DN18378_c3_g4::TRINITY_DN18378_c3_g4_i1::g.99575::m.99575	0	0	0	0	0	0	0	152970	0	0	0	0	6817700	8296200	7933200
TRINITY_DN11637_c0_g1::TRINITY_DN11637_c0_g1_i3::g.8078::m.8078	651620	81412	162420	139640	0	309130	724500	0	1877600	1084400	0	1249300	3697200	6343000	6859600
TRINITY_DN16699_c3_g1::TRINITY_DN16699_c3_g1_i15::g.70256::m.70256	0	0	0	0	0	0	0	0	0	0	0	0	7110200	8183200	7872400
TRINITY_DN14704_c0_g1::TRINITY_DN14704_c0_g1_i5::g.40889::m.40889	1020500	293060	1085400	713860	679190	556790	813590	1070600	4924200	3271200	3117000	5601800	0	0	0
TRINITY_DN15232_c2_g1::TRINITY_DN15232_c2_g1_i5::g.49050::m.49050	0	0	0	0	0	0	0	0	125750	0	0	0	5934500	8891800	8127200

TRINITY_DN16447_c0_g1::TRINITY_DN16447_c0_g1_i6::g.67050::m.67050	0	0	0	0	0	0	0	0	0	0	0	0	7702800	5024800	10351000
TRINITY_DN18433_c1_g3::TRINITY_DN18433_c1_g3_i2::g.100387::m.100387	721330	0	1361900	1083600	0	60824	772560	161570	5939000	1645700	6677000	739970	1455200	1426600	949160
TRINITY_DN15610_c2_g1::TRINITY_DN15610_c2_g1_i5::g.54395::m.54395	0	0	0	0	0	0	0	0	0	0	0	0	7639700	8891800	6391700
TRINITY_DN17553_c1_g1::TRINITY_DN17553_c1_g1_i2::g.85833::m.85833	4662300	2089700	5913500	6487400	0	0	0	3513600	0	0	0	0	0	0	237900
TRINITY_DN16227_c0_g1::TRINITY_DN16227_c0_g1_i8::g.64252::m.64252	951850	229420	1302100	785760	1894300	796050	2434500	1569400	2130300	470960	771040	6173300	1371800	206380	1780000
TRINITY_DN18179_c2_g1::TRINITY_DN18179_c2_g1_i5::g.96397::m.96397	873010	0	158370	280840	583340	497260	795500	432230	1205000	927620	1629000	2716700	4026200	4809100	3878400
TRINITY_DN13194_c3_g1::TRINITY_DN13194_c3_g1_i1::g.20967::m.20967	0	0	0	0	0	0	0	0	0	0	0	0	5707200	9477800	7592900
TRINITY_DN15924_c1_g1::TRINITY_DN15924_c1_g1_i2::g.59050::m.59050	701360	224300	592290	629040	853400	662240	1015500	1683300	1039900	1854800	1490200	2667300	2280800	3515700	3496900
TRINITY_DN13535_c5_g1::TRINITY_DN13535_c5_g1_i1::g.25172::m.25172	1276800	270990	1159800	1259900	1191100	0	1326100	1122200	0	0	0	0	3947300	6386300	4552300
TRINITY_DN12971_c4_g2::TRINITY_DN12971_c4_g2_i4::g.17979::m.17979	211430	88386	157850	168050	0	0	154980	0	0	178670	437270	0	5178100	8339400	7530700
TRINITY_DN17406_c4_g4::TRINITY_DN17406_c4_g4_i2::g.83246::m.83246	170720	0	174270	113530	242520	105800	290480	306910	0	123400	0	470010	6189500	6671300	7526900
TRINITY_DN14711_c0_g2::TRINITY_DN14711_c0_g2_i2::g.40961::m.40961	0	0	0	0	0	0	0	0	0	0	0	0	6403300	6810200	9165600
TRINITY_DN12314_c0_g1::TRINITY_DN12314_c0_g1_i2::g.11797::m.11797	579730	346060	1193800	629390	1391000	0	1976100	487940	2704100	626260	4528300	2389100	2172000	2249300	1024700
TRINITY_DN19972_c2_g1::TRINITY_DN19972_c2_g1_i3::g.126916::m.126916	552380	0	159400	622930	0	0	271920	0	1494800	0	1324500	11545000	452210	2659500	3170600
TRINITY_DN12468_c0_g1::TRINITY_DN12468_c0_g1_i1::g.13082::m.13082	167260	154700	127610	216340	0	0	0	0	265030	0	173430	0	5468800	9280600	6385400
TRINITY_DN16038_c1_g1::TRINITY_DN16038_c1_g1_i5::g.61002::m.61002	0	0	0	0	0	0	0	0	0	0	0	0	6343600	8506900	7356800
TRINITY_DN14600_c0_g1::TRINITY_DN14600_c0_g1_i7::g.38565::m.38565	0	0	370050	0	0	0	0	0	0	0	117660	0	5674300	9809500	6133400
TRINITY_DN12693_c0_g1::TRINITY_DN12693_c0_g1_i3::g.14940::m.14940	1595700	805000	2417200	2158300	2122600	800220	0	1702700	0	0	6690100	0	0	1969600	1836800
TRINITY_DN12016_c0_g1::TRINITY_DN12016_c0_g1_i3::g.10082::m.10082	0	0	0	0	0	0	0	0	0	0	243830	0	6017400	6100700	9686700
TRINITY_DN12640_c0_g1::TRINITY_DN12640_c0_g1_i4::g.14587::m.14587	142730	56007	0	75961	1934100	539220	2199000	661230	3412700	1265700	3233000	2768200	1942900	1677400	1895900
TRINITY_DN18427_c1_g2::TRINITY_DN18427_c1_g2_i5::g.100438::m.100438	188320	0	128690	157880	0	0	0	0	0	0	0	0	4913000	6830600	9541400

TRINITY_DN19518_c0_g1::TRINITY_DN19518_c0_g1_i2::g.119121::m.1191	1374000	0	1343200	1118000	1351900	254950	2551900	2257900	1184400	1480600	4656700	2264000	407590	1264700	213860
TRINITY_DN17623_c2_g1::TRINITY_DN17623_c2_g1_i4::g.87423::m.87423	2008600	928140	1804600	1274100	1727700	0	2471200	1663500	3236600	0	3301800	2962100	0	0	0
TRINITY_DN14810_c0_g2::TRINITY_DN14810_c0_g2_i2::g.42832::m.42832	155950	153230	93871	752410	640540	0	1036000	796970	1960800	1774500	5004900	4977300	528540	674200	2694100
TRINITY_DN12250_c0_g1::TRINITY_DN12250_c0_g1_i2::g.11365::m.11365	0	0	0	0	0	0	0	0	0	0	0	0	6165800	7453600	7538900
TRINITY_DN16420_c0_g1::TRINITY_DN16420_c0_g1_i2::g.67378::m.67378	956410	0	1204800	1139900	577230	349680	1470300	1077900	0	0	0	4330000	3326300	5169000	1441500
TRINITY_DN16668_c3_g1::TRINITY_DN16668_c3_g1_i1::g.71264::m.71264	145920	60150	0	203580	0	0	0	0	0	373750	518890	1023400	5246900	6583300	6865700
TRINITY_DN18663_c1_g1::TRINITY_DN18663_c1_g1_i1::g.104197::m.1041	514310	350600	834710	482670	0	0	584470	0	3957000	0	6953100	3219100	1866400	563490	1687400
TRINITY_DN16719_c1_g1::TRINITY_DN16719_c1_g1_i3::g.72216::m.72216	0	0	0	0	0	0	0	0	0	0	249030	0	6156000	9363500	5210700
TRINITY_DN17040_c1_g7::TRINITY_DN17040_c1_g7_i1::g.77416::m.77416	958990	408380	1230900	1194200	0	0	0	1630900	0	0	2671300	0	3916800	4438900	4483300
TRINITY_DN14578_c1_g1::TRINITY_DN14578_c1_g1_i1::g.39115::m.39115	0	0	0	0	0	0	0	0	0	0	144990	3846200	3327500	6072600	7533300
TRINITY_DN14089_c0_g1::TRINITY_DN14089_c0_g1_i6::g.32232::m.32232	60842	0	28592	64220	0	0	0	371250	0	407290	0	1743700	4867000	7347400	5988200
TRINITY_DN14378_c0_g2::TRINITY_DN14378_c0_g2_i6::g.36119::m.36119	0	0	0	0	0	0	0	0	0	0	168700	0	5120400	5737800	9804100
TRINITY_DN19372_c1_g1::TRINITY_DN19372_c1_g1_i2::g.116684::m.116684	200170	0	0	262850	254520	404800	658180	694100	2967500	1727600	5780000	4992000	860130	1445100	547090
TRINITY_DN13787_c3_g4::TRINITY_DN13787_c3_g4_i3::g.28262::m.28262	35525	0	0	0	0	0	0	0	0	0	0	0	7533200	7729500	5461400
TRINITY_DN18760_c9_g1::TRINITY_DN18760_c9_g1_i2::g.106072::m.106072	0	0	0	0	0	0	0	0	0	0	0	0	7454600	5903100	7335100
TRINITY_DN11053_c0_g1::TRINITY_DN11053_c0_g1_i3::g.6092::m.6092	0	0	0	0	0	0	0	0	0	0	0	0	5469600	8835300	6290400
TRINITY_DN13145_c0_g1::TRINITY_DN13145_c0_g1_i9::g.20440::m.20440	0	0	0	0	0	0	0	0	0	0	0	0	5736600	5366400	9455800
TRINITY_DN16756_c2_g7::TRINITY_DN16756_c2_g7_i3::g.72811::m.72811	0	0	0	0	0	0	142020	97975	405680	476530	0	0	3358600	8709600	7326100
TRINITY_DN12713_c0_g2::TRINITY_DN12713_c0_g2_i2::g.15182::m.15182	1313200	0	0	1257700	0	0	0	1352300	4288000	0	5321600	5707900	427280	119380	513730
TRINITY_DN13140_c0_g1::TRINITY_DN13140_c0_g1_i10::g.20388::m.20388	0	0	0	0	0	0	0	0	0	0	0	0	6434900	7973600	5847400
TRINITY_DN16168_c0_g1::TRINITY_DN16168_c0_g1_i6::g.63149::m.63149	36485	0	0	0	0	0	0	0	0	0	75585	203670	6353700	5508500	7963200

TRINITY_DN18151_c0_g1::TRINITY_DN18151_c0_g1_i1::g.95922::m.95922	124290	23274	88192	0	202980	142320	464780	0	249530	0	416110	0	4649000	10309000	3470400
TRINITY_DN13594_c1_g2::TRINITY_DN13594_c1_g2_i6::g.26004::m.26004	903860	351890	1067600	721310	426520	288090	1467100	896710	1399700	1168900	5495700	4029800	0	864930	928000
TRINITY_DN16842_c1_g6::TRINITY_DN16842_c1_g6_i1::g.74458::m.74458	515720	58553	812170	383130	95971	1082800	2515400	789030	3984600	0	2466700	7247800	0	0	0
TRINITY_DN16487_c1_g1::TRINITY_DN16487_c1_g1_i9::g.68393::m.68393	0	0	0	0	0	0	0	0	0	0	0	0	6151300	5814700	7905900
TRINITY_DN17142_c0_g1::TRINITY_DN17142_c0_g1_i3::g.79276::m.79276	481210	322890	1116100	760540	2485300	664450	2514800	2575100	574930	834220	2938000	4369800	0	0	160470
TRINITY_DN18242_c1_g1::TRINITY_DN18242_c1_g1_i1::g.97405::m.97405	177520	0	209700	161060	1698800	1115300	2382200	1415200	1907300	1710600	3880700	3232400	308980	388520	1187000
TRINITY_DN18764_c1_g1::TRINITY_DN18764_c1_g1_i6::g.106059::m.106059	632070	46082	1424600	1248600	874490	0	1453400	788890	3608500	772000	2727100	6192700	0	0	0
TRINITY_DN15799_c0_g1::TRINITY_DN15799_c0_g1_i1::g.55952::m.55952	111750	61476	166580	102230	0	384300	1454800	1769900	2970300	2557400	2067000	4399400	100230	1762900	1809700
TRINITY_DN12324_c0_g2::TRINITY_DN12324_c0_g2_i2::g.11908::m.11908	0	0	0	0	0	0	0	0	0	0	0	0	6057800	5815000	7796700
TRINITY_DN14323_c0_g1::TRINITY_DN14323_c0_g1_i2::g.35566::m.35566	71428	0	59676	196490	165270	84239	0	0	0	0	0	682890	5494100	6383200	6421400
TRINITY_DN13653_c3_g1::TRINITY_DN13653_c3_g1_i1::g.26703::m.26703	0	0	0	0	0	0	0	0	0	0	0	0	7157200	6942900	5445100
TRINITY_DN20011_c2_g2::TRINITY_DN20011_c2_g2_i1::g.127827::m.127827	0	0	41031	0	0	0	0	0	309460	0	0	0	4521600	5915600	8756000
TRINITY_DN14539_c1_g2::TRINITY_DN14539_c1_g2_i5::g.38538::m.38538	0	0	0	0	0	0	0	0	0	0	0	0	4419200	7742000	7251500
TRINITY_DN15165_c0_g1::TRINITY_DN15165_c0_g1_i4::g.47616::m.47616	0	0	0	0	0	0	0	0	0	0	0	0	5818400	6927100	6636300
TRINITY_DN12436_c4_g2::TRINITY_DN12436_c4_g2_i4::g.12996::m.12996	49462	0	43585	0	0	0	0	0	0	0	0	0	7950900	4555800	6771900
TRINITY_DN14508_c8_g1::TRINITY_DN14508_c8_g1_i8::g.38378::m.38378	727600	118580	751370	314010	447720	817540	1926600	1822200	766500	1897000	4168000	4596300	703540	253290	0
TRINITY_DN14731_c0_g4::TRINITY_DN14731_c0_g4_i2::g.41282::m.41282	112110	33393	110410	92520	239980	132580	273690	206770	493520	439810	949270	732060	4507900	5216900	5750500
TRINITY_DN15108_c2_g1::TRINITY_DN15108_c2_g1_i5::g.47064::m.47064	0	0	0	0	0	0	0	0	0	0	0	0	5324400	7257800	6634700
TRINITY_DN15133_c0_g1::TRINITY_DN15133_c0_g1_i1::g.47252::m.47252	134400	65413	507680	143320	1014700	487550	2165000	1931900	3195900	882820	1702700	3026900	1618700	1599500	687250
TRINITY_DN13082_c0_g1::TRINITY_DN13082_c0_g1_i2::g.19429::m.19429	232990	95154	303660	263910	1354900	279630	1099800	721680	1427800	2899200	5021000	4831600	271550	0	341760

TRINITY_DN19812_c4_g2::TRINITY_DN19812_c4_g2_i2::g.124055::m.124055	0	0	124550	0	26232	0	0	0	0	0	3504200	3755400	3938900	4140600	3634100
TRINITY_DN13916_c3_g3::TRINITY_DN13916_c3_g3_i3::g.30403::m.30403	0	0	0	0	0	0	0	0	0	0	0	0	4509700	6205200	8288100
TRINITY_DN17369_c1_g1::TRINITY_DN17369_c1_g1_i7::g.82610::m.82610	521730	132270	417150	455800	0	63494	0	105740	271670	0	689940	299130	5978200	4952100	5105200
TRINITY_DN11073_c0_g1::TRINITY_DN11073_c0_g1_i1::g.6247::m.6247	0	0	0	0	0	0	0	0	0	0	0	0	2668200	10325000	5947300
TRINITY_DN17221_c0_g2::TRINITY_DN17221_c0_g2_i11::g.80299::m.80299	253650	26033	1092400	1075000	780800	144200	0	786060	0	0	2959000	3086000	3451700	1957900	3316800
TRINITY_DN13021_c1_g2::TRINITY_DN13021_c1_g2_i3::g.18779::m.18779	531240	177940	603140	555010	361670	0	311570	973240	3857400	1894900	4750600	4897400	0	0	0
TRINITY_DN19942_c0_g1::TRINITY_DN19942_c0_g1_i1::g.126320::m.126320	0	0	0	0	0	0	0	0	0	0	0	0	5532100	5867300	7495500
TRINITY_DN13485_c2_g3::TRINITY_DN13485_c2_g3_i2::g.24428::m.24428	154540	61426	120600	106770	462140	129740	260600	215150	862850	296790	1306800	2249100	4109900	4785800	3720000
TRINITY_DN15741_c2_g1::TRINITY_DN15741_c2_g1_i4::g.55925::m.55925	0	0	0	0	158050	0	0	2097000	4981900	3725100	4207100	3575800	0	0	0
TRINITY_DN18489_c2_g1::TRINITY_DN18489_c2_g1_i22::g.101262::m.101262	68091	52101	5736400	6078100	336690	0	408600	588320	0	0	1236400	1226300	793270	867300	1217800
TRINITY_DN13122_c2_g4::TRINITY_DN13122_c2_g4_i4::g.20179::m.20179	0	0	0	0	0	0	0	0	0	0	0	0	4447500	7559200	6595500
TRINITY_DN19434_c2_g3::TRINITY_DN19434_c2_g3_i2::g.117952::m.117952	0	0	0	0	0	0	0	0	0	0	0	0	6529100	4930600	7104800
TRINITY_DN16406_c2_g3::TRINITY_DN16406_c2_g3_i1::g.67214::m.67214	0	0	0	0	0	0	0	0	0	0	0	0	6143800	3323600	9071800
TRINITY_DN11854_c0_g1::TRINITY_DN11854_c0_g1_i1::g.9190::m.9190	465370	193600	458560	412350	1625100	776590	1261600	928440	2217700	773490	4302000	3955100	296010	348820	467690
TRINITY_DN13288_c0_g3::TRINITY_DN13288_c0_g3_i3::g.22072::m.22072	852800	322150	1084500	815850	621960	168070	1136500	411710	2044400	1025000	6627100	3054300	0	0	287670
TRINITY_DN15507_c1_g1::TRINITY_DN15507_c1_g1_i1::g.53015::m.53015	0	0	0	0	0	0	0	0	0	0	0	0	1896600	9720200	6774300
TRINITY_DN15130_c6_g3::TRINITY_DN15130_c6_g3_i3::g.47307::m.47307	737680	90878	647150	258190	749210	197030	324970	425290	1714100	2072200	3614900	3682000	1262100	1679100	931930
TRINITY_DN15473_c0_g1::TRINITY_DN15473_c0_g1_i4::g.52564::m.52564	1231600	110920	475740	1134000	2112300	1363700	0	0	845220	0	4700400	6029500	0	184520	172300
TRINITY_DN18360_c0_g5::TRINITY_DN18360_c0_g5_i1::g.99194::m.99194	93346	34741	92212	98108	0	101650	213990	166470	5134400	827470	4334100	5333000	913070	0	1006700
TRINITY_DN18610_c1_g2::TRINITY_DN18610_c1_g2_i3::g.103387::m.103387	276440	0	187360	301800	0	0	195830	369960	518530	0	1194900	893800	5002200	3465900	5927100

TRINITY_DN19948_c1_g1::TRINITY_DN19948_c1_g1_i7::g.126477::m.126477	949410	284800	1053500	1331100	790730	0	1036600	1023800	1553400	0	2122600	655020	0	3911300	3620300
TRINITY_DN15732_c1_g2::TRINITY_DN15732_c1_g2_i3::g.56333::m.56333	134320	0	78337	118060	0	0	0	0	174180	0	0	225330	3567800	6304900	7723600
TRINITY_DN19268_c1_g1::TRINITY_DN19268_c1_g1_i2::g.114841::m.1148	0	0	0	0	0	0	0	0	0	0	0	0	3892900	6699500	7669800
TRINITY_DN15694_c2_g2::TRINITY_DN15694_c2_g2_i2::g.54517::m.54517	0	0	0	0	0	0	0	0	0	0	0	0	4467100	6450400	7322600
TRINITY_DN13820_c2_g1::TRINITY_DN13820_c2_g1_i2::g.28694::m.28694	169580	64812	145060	138500	181620	193750	465180	271460	0	0	0	621640	4073700	6746100	5088200
TRINITY_DN18889_c2_g1::TRINITY_DN18889_c2_g1_i17::g.108140::m.108140	856120	47755	934160	740790	0	209320	3743400	491810	589750	395420	1884100	4305500	2072900	1019300	865000
TRINITY_DN14517_c1_g1::TRINITY_DN14517_c1_g1_i15::g.38263::m.38263	488130	184510	179060	363300	0	0	0	0	0	0	6395200	6320700	1823600	1407400	962220
TRINITY_DN15211_c1_g1::TRINITY_DN15211_c1_g1_i7::g.48526::m.48526	225570	144540	879400	434260	0	0	1432600	1213500	0	1322400	5113000	5634400	478500	574220	649840
TRINITY_DN19169_c1_g1::TRINITY_DN19169_c1_g1_i1::g.113168::m.1131	2255000	0	1703600	1343500	0	137420	0	321780	1540800	968390	1735300	1930900	1927800	2036900	2031700
TRINITY_DN18383_c2_g3::TRINITY_DN18383_c2_g3_i1::g.99654::m.99654	460130	207420	600450	742770	0	79853	0	104590	305300	248130	964320	725430	3860900	5588700	3940000
TRINITY_DN14308_c0_g1::TRINITY_DN14308_c0_g1_i1::g.35383::m.35383	0	0	0	0	263040	436120	334190	221560	1877000	0	5909300	2888400	1329400	2425500	2003600
TRINITY_DN13126_c1_g2::TRINITY_DN13126_c1_g2_i1::g.20156::m.20156	2600000	0	3065100	2616600	0	0	1091700	0	1727600	904800	2911300	0	1266500	0	1499100
TRINITY_DN18038_c0_g1::TRINITY_DN18038_c0_g1_i7::g.94082::m.94082	0	0	0	0	79914	0	0	0	150020	0	0	0	4809300	4828800	7815100
TRINITY_DN14696_c0_g1::TRINITY_DN14696_c0_g1_i2::g.40666::m.40666	376330	162050	487870	395140	1618900	1068300	2193200	1595700	2689400	2157900	3538000	0	587460	443860	358780
TRINITY_DN15303_c0_g1::TRINITY_DN15303_c0_g1_i2::g.49908::m.49908	424730	232200	621980	190740	2435500	541150	1169400	1340400	1060100	570510	2373000	3840800	541120	1340900	921920
TRINITY_DN15702_c0_g4::TRINITY_DN15702_c0_g4_i1::g.55937::m.55937	0	0	0	0	0	0	0	0	0	0	0	0	3625100	11263000	2661500
TRINITY_DN13427_c0_g2::TRINITY_DN13427_c0_g2_i5::g.23653::m.23653	0	0	53540	0	0	0	0	0	0	0	0	0	1749500	8856200	6868200
TRINITY_DN19814_c1_g2::TRINITY_DN19814_c1_g2_i2::g.124101::m.1241	281560	96749	275150	316900	351080	0	1034600	418670	0	0	1291900	2295300	4332600	5076100	1750400
TRINITY_DN12264_c2_g2::TRINITY_DN12264_c2_g2_i2::g.11522::m.11522	254610	71743	292150	188530	1702900	1316200	1758500	228810	1022100	207490	5268700	1881700	1013700	548820	1605100
TRINITY_DN13465_c1_g2::TRINITY_DN13465_c1_g2_i1::g.24163::m.24163	389600	132670	957900	1056900	935790	0	441530	658560	832930	550440	2216200	6218300	1281400	606960	1062800

TRINITY_DN19983_c1_g1::TRINITY_DN19983_c1_g1_i9::g.127358::m.127358	372730	169990	473160	381180	725560	256530	439980	1049400	1588400	1909900	3197100	3748600	819510	868030	1202300
TRINITY_DN16964_c2_g5::TRINITY_DN16964_c2_g5_i4::g.76427::m.76427	0	0	0	0	0	0	0	0	0	0	0	0	6068600	5008300	6076400
TRINITY_DN17558_c0_g1::TRINITY_DN17558_c0_g1_i9::g.85984::m.85984	0	0	0	0	0	0	0	4481600	0	0	0	0	4926200	2781400	4963200
TRINITY_DN17017_c2_g1::TRINITY_DN17017_c2_g1_i7::g.77030::m.77030	926510	467060	1174200	1176300	321670	235130	1593500	846960	1046000	611220	3085200	4835600	0	551910	270990
TRINITY_DN14717_c1_g1::TRINITY_DN14717_c1_g1_i9::g.42525::m.42525	0	0	0	0	0	0	0	0	0	0	0	0	3646700	7233000	6235500
TRINITY_DN13650_c8_g1::TRINITY_DN13650_c8_g1_i8::g.26099::m.26099	0	0	0	0	908870	606620	966480	900040	2759600	2107300	4698000	3852900	293470	0	0
TRINITY_DN18258_c0_g1::TRINITY_DN18258_c0_g1_i6::g.97657::m.97657	0	0	0	0	1074800	0	0	0	4010800	0	4562900	5903900	0	0	1514700
TRINITY_DN13419_c2_g1::TRINITY_DN13419_c2_g1_i6::g.23702::m.23702	0	0	0	0	0	0	0	0	0	0	0	0	5096700	6624100	5344900
TRINITY_DN18011_c2_g1::TRINITY_DN18011_c2_g1_i8::g.93702::m.93702	662840	217150	840470	1125800	1007200	198060	421180	1114500	0	0	1573800	4527400	603450	1909300	2833300
TRINITY_DN14942_c0_g1::TRINITY_DN14942_c0_g1_i6::g.44624::m.44624	3115200	2479800	6104300	5277700	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN17863_c0_g3::TRINITY_DN17863_c0_g3_i3::g.91035::m.91035	65325	0	0	0	247310	326250	798700	985670	1646300	1645600	2181300	968640	2083100	2812700	3167400
TRINITY_DN16933_c5_g1::TRINITY_DN16933_c5_g1_i5::g.75858::m.75858	0	0	0	0	117950	0	0	226610	260600	397520	249780	0	4437300	5347300	5886400
TRINITY_DN19887_c8_g1::TRINITY_DN19887_c8_g1_i5::g.125402::m.125402	1760800	288260	1683100	1607800	0	0	0	0	0	0	2612000	2479300	1883300	2128300	2452900
TRINITY_DN14777_c4_g4::TRINITY_DN14777_c4_g4_i3::g.42104::m.42104	0	0	0	0	1093000	1322800	0	3192900	1116100	5631100	0	0	1980100	1700300	857880
TRINITY_DN6579_c0_g1::TRINITY_DN6579_c0_g1_i1::g.1685::m.1685	510760	99654	480610	311300	0	0	0	0	1719700	0	0	2421900	3838600	5722100	1781400
TRINITY_DN16381_c2_g1::TRINITY_DN16381_c2_g1_i3::g.66693::m.66693	62439	0	157830	267640	0	0	79278	0	0	0	0	288540	4571500	5420400	5966100
TRINITY_DN14242_c1_g2::TRINITY_DN14242_c1_g2_i9::g.34423::m.34423	442150	0	342740	658670	830200	0	1702800	1879400	2965600	914330	1704500	3087500	1179600	738450	359530
TRINITY_DN18618_c2_g1::TRINITY_DN18618_c2_g1_i14::g.103865::m.103865	38699	0	0	0	0	0	0	0	223970	0	0	0	6095000	5886100	4549300
TRINITY_DN13619_c0_g1::TRINITY_DN13619_c0_g1_i2::g.26348::m.26348	273850	0	175510	323010	331790	230380	445940	557270	1036100	1546000	3021400	3271900	1379100	1850700	2336600
TRINITY_DN17578_c3_g1::TRINITY_DN17578_c3_g1_i5::g.85666::m.85666	0	0	0	0	0	0	0	0	0	142150	0	0	3608800	7325400	5678200

TRINITY_DN16993_c0_g2::TRINITY_DN16993_c0_g2_i2::g.76741::m.76741	851900	352150	1050100	849850	2053400	439340	2096500	999840	2657100	952520	2048400	2331400	0	0	0
TRINITY_DN13712_c0_g1::TRINITY_DN13712_c0_g1_i1::g.27487::m.27487	0	0	0	0	0	0	0	0	0	0	0	0	3653900	6608600	6296700
TRINITY_DN14406_c2_g1::TRINITY_DN14406_c2_g1_i7::g.36607::m.36607	156720	56274	294360	251860	242050	0	430940	225700	283920	386940	1259700	707100	4109500	3152200	4986500
TRINITY_DN18981_c5_g1::TRINITY_DN18981_c5_g1_i2::g.109832::m.109832	37127	0	961140	0	0	0	0	0	0	0	98382	0	6483500	3545800	5394900
TRINITY_DN13705_c0_g1::TRINITY_DN13705_c0_g1_i7::g.27449::m.27449	0	0	13558	0	0	0	0	0	0	0	0	0	5876100	6692700	3934800
TRINITY_DN17456_c0_g1::TRINITY_DN17456_c0_g1_i8::g.83943::m.83943	162300	78259	225070	180550	419040	0	0	516320	0	0	1286900	1422700	5463300	4577900	2161400
TRINITY_DN18817_c0_g1::TRINITY_DN18817_c0_g1_i10::g.107314::m.107314	163230	94082	528960	165450	343860	0	0	285160	0	0	0	0	6026000	6288800	2593800
TRINITY_DN19070_c1_g2::TRINITY_DN19070_c1_g2_i7::g.110348::m.110348	3519300	542240	1127900	987890	1205100	591730	993220	1361800	0	0	0	3257700	1454500	0	1442100
TRINITY_DN12832_c2_g6::TRINITY_DN12832_c2_g6_i1::g.16307::m.16307	0	0	0	0	0	0	0	0	0	0	0	0	4680200	6146400	5653300
TRINITY_DN14216_c0_g3::TRINITY_DN14216_c0_g3_i3::g.34216::m.34216	0	0	0	0	0	0	2380100	0	0	2640900	5035300	5262300	510390	0	641370
TRINITY_DN16423_c1_g3::TRINITY_DN16423_c1_g3_i3::g.67278::m.67278	178160	26662	237780	306620	989660	200850	1083600	1111000	641420	1567900	1147900	2754000	1689500	2688100	1841200
TRINITY_DN13521_c0_g4::TRINITY_DN13521_c0_g4_i1::g.24842::m.24842	45250	0	33213	44374	0	56300	0	0	0	896140	0	0	3427400	4860400	7087000
TRINITY_DN11068_c0_g1::TRINITY_DN11068_c0_g1_i1::g.6241::m.6241	0	0	0	57905	0	0	0	0	0	0	3507700	0	4845200	4475900	3541100
TRINITY_DN11631_c0_g1::TRINITY_DN11631_c0_g1_i1::g.8169::m.8169	272470	110450	347820	345470	562740	0	839950	778890	2816800	1781300	2720600	4239400	566870	430720	542000
TRINITY_DN17644_c1_g2::TRINITY_DN17644_c1_g2_i9::g.87544::m.87544	0	0	0	58364	0	0	173390	465110	0	0	774090	218850	4491300	4925400	5210800
TRINITY_DN16032_c0_g1::TRINITY_DN16032_c0_g1_i4::g.60901::m.60901	1655700	44634	433480	2197800	225990	0	0	282720	2938600	0	839530	974120	1823700	2560900	2329300
TRINITY_DN16763_c1_g3::TRINITY_DN16763_c1_g3_i3::g.72969::m.72969	0	0	0	0	0	0	0	0	0	0	0	0	5323300	6169800	4797100
TRINITY_DN13349_c1_g1::TRINITY_DN13349_c1_g1_i7::g.22584::m.22584	334040	0	341420	254020	0	145100	0	0	595880	0	0	0	5374200	6293800	2922200
TRINITY_DN14455_c0_g1::TRINITY_DN14455_c0_g1_i2::g.37451::m.37451	244210	121400	292780	350330	203010	0	0	0	563850	0	0	664810	4754800	4862700	4183600

TRINITY_DN19436_c2_g2::TRINITY_DN19436_c2_g2_i1::g.118043::m.118043	0	0	0	0	0	315230	1444200	1011000	0	2123300	1673500	5887200	151360	2241500	1379200
TRINITY_DN18302_c1_g2::TRINITY_DN18302_c1_g2_i2::g.98507::m.98507	548390	0	577510	528450	2754000	511150	0	1172800	4898700	2223300	0	2644600	323980	0	0
TRINITY_DN13203_c0_g1::TRINITY_DN13203_c0_g1_i1::g.21059::m.21059	1006000	392100	1682400	570780	656330	237250	0	641430	0	0	2297700	8318200	0	0	333790
TRINITY_DN13389_c0_g2::TRINITY_DN13389_c0_g2_i2::g.23122::m.23122	272510	104080	164160	194210	132540	105400	0	0	0	134430	636870	893030	5142700	2643500	5698900
TRINITY_DN15149_c3_g1::TRINITY_DN15149_c3_g1_i3::g.47576::m.47576	0	0	0	0	0	0	0	0	0	0	0	0	3746100	5532100	6744900
TRINITY_DN19596_c0_g2::TRINITY_DN19596_c0_g2_i1::g.120414::m.120414	419140	44339	175610	170280	0	0	226020	320790	0	338710	558710	441860	3987500	4260900	5052400
TRINITY_DN11870_c0_g1::TRINITY_DN11870_c0_g1_i2::g.9275::m.9275	0	0	0	0	0	0	0	0	0	0	0	0	6152500	3466600	6372400
TRINITY_DN18707_c2_g1::TRINITY_DN18707_c2_g1_i4::g.104948::m.104948	0	0	3567200	100390	184330	52185	0	219640	597360	346110	437630	0	2787500	5813200	1817900
TRINITY_DN18173_c2_g1::TRINITY_DN18173_c2_g1_i8::g.96624::m.96624	0	0	0	0	0	0	0	0	0	0	0	0	5116400	5779100	4945500
TRINITY_DN11898_c0_g1::TRINITY_DN11898_c0_g1_i2::g.9380::m.9380	234740	131140	526470	187860	1073200	503690	1316100	383490	1081500	1325600	2452200	2055900	1221200	966450	2325300
TRINITY_DN13113_c1_g1::TRINITY_DN13113_c1_g1_i4::g.20046::m.20046	0	0	0	0	0	0	0	0	0	0	0	0	4393100	5929400	5457900
TRINITY_DN17740_c0_g2::TRINITY_DN17740_c0_g2_i7::g.89045::m.89045	0	48752	62577	160940	0	0	434080	383830	224280	0	0	2952000	1713100	4895600	4866700
TRINITY_DN13674_c0_g1::TRINITY_DN13674_c0_g1_i2::g.26925::m.26925	0	0	0	22103	796500	0	129770	808700	0	0	128470	179120	2313800	6501400	4851900
TRINITY_DN17202_c2_g1::TRINITY_DN17202_c2_g1_i4::g.80033::m.80033	0	0	0	0	0	0	0	0	0	0	0	0	3576700	5945000	6209400
TRINITY_DN20008_c1_g1::TRINITY_DN20008_c1_g1_i8::g.127738::m.127738	71342	0	74526	60311	0	0	0	0	0	0	0	0	4315700	5947500	5257800
TRINITY_DN17814_c1_g2::TRINITY_DN17814_c1_g2_i3::g.90444::m.90444	480970	356190	1154000	753790	1224800	489560	1797500	702570	806520	246640	1437200	3986400	585170	1082600	570680
TRINITY_DN19612_c1_g2::TRINITY_DN19612_c1_g2_i9::g.120821::m.120821	0	0	0	0	0	0	0	0	0	0	0	0	4609100	5081700	5969600
TRINITY_DN13600_c1_g7::TRINITY_DN13600_c1_g7_i6::g.25108::m.25108	0	0	0	0	0	0	0	0	0	0	654330	0	1981900	8688100	4311600
TRINITY_DN18619_c0_g2::TRINITY_DN18619_c0_g2_i2::g.103437::m.103437	0	0	0	0	0	0	0	0	0	0	0	0	6034000	6497800	3073400
TRINITY_DN18061_c2_g3::TRINITY_DN18061_c2_g3_i1::g.94540::m.94540	0	0	0	0	0	0	0	0	0	0	0	0	3795400	3177100	8629100

TRINITY_DN15930_c2_g3::TRINITY_DN15930_c2_g3_i6::g.59212::m.59212	0	0	0	0	0	0	0	0	0	0	0	226940	3283800	6366400	5702200
TRINITY_DN14203_c2_g1::TRINITY_DN14203_c2_g1_i1::g.33817::m.33817	209090	111840	309320	224750	581880	176330	0	345660	0	0	341790	0	3345300	4313500	5608800
TRINITY_DN17074_c4_g2::TRINITY_DN17074_c4_g2_i4::g.77976::m.77976	0	0	0	0	0	0	0	0	0	0	0	0	5023100	6450600	4049100
TRINITY_DN17405_c1_g3::TRINITY_DN17405_c1_g3_i1::g.83287::m.83287	162650	0	716680	1116800	457320	546030	254170	356520	377290	147500	779120	3254900	1211100	3632400	2452500
TRINITY_DN16821_c3_g1::TRINITY_DN16821_c3_g1_i2::g.73875::m.73875	0	0	0	0	0	573890	0	1402800	4251600	0	6682400	0	1460000	492540	589350
TRINITY_DN13494_c0_g3::TRINITY_DN13494_c0_g3_i1::g.24527::m.24527	0	0	0	0	0	0	0	0	0	0	0	0	2248200	5715100	7458100
TRINITY_DN10893_c0_g1::TRINITY_DN10893_c0_g1_i1::g.5751::m.5751	1186900	421480	1451500	984600	1059500	0	699020	490740	3696900	1469700	1882800	2049700	0	0	0
TRINITY_DN16490_c2_g1::TRINITY_DN16490_c2_g1_i1::g.68401::m.68401	37858	0	48983	47433	0	0	238590	177320	289990	0	0	407710	5225100	4646000	4268100
TRINITY_DN16487_c1_g2::TRINITY_DN16487_c1_g2_i5::g.68395::m.68395	469520	319780	723240	645270	861580	0	449580	718080	181280	81880	0	0	2857600	4018800	4005800
TRINITY_DN17201_c0_g1::TRINITY_DN17201_c0_g1_i1::g.79917::m.79917	73574	0	47724	38680	0	0	0	0	0	280020	0	0	4872300	4299600	5623900
TRINITY_DN14870_c0_g1::TRINITY_DN14870_c0_g1_i2::g.43479::m.43479	68761	37543	111830	102540	195760	0	0	0	511260	240760	0	402490	3589700	3887400	6075000
TRINITY_DN14090_c0_g1::TRINITY_DN14090_c0_g1_i4::g.32240::m.32240	441940	159520	704290	613160	795700	0	263610	666150	1216000	1424000	918990	1668800	1235700	1989000	3074800
TRINITY_DN18902_c0_g1::TRINITY_DN18902_c0_g1_i9::g.108609::m.108609	1001100	226490	1636800	1514400	1119400	423540	2461800	1169700	475100	933840	1928500	2275200	0	0	0
TRINITY_DN19154_c1_g1::TRINITY_DN19154_c1_g1_i1::g.113024::m.1130	144310	39427	62024	0	0	0	0	0	0	0	0	0	3796900	8369200	2741500
TRINITY_DN14612_c0_g1::TRINITY_DN14612_c0_g1_i2::g.39550::m.39550	6495500	105730	1045800	663760	619210	201260	377770	382380	0	0	2517700	2492300	0	190030	0
TRINITY_DN16497_c0_g2::TRINITY_DN16497_c0_g2_i8::g.67601::m.67601	0	117380	312100	0	604800	222190	0	1001100	3583300	1175300	2477100	0	1854400	1997700	1696300
TRINITY_DN10818_c0_g1::TRINITY_DN10818_c0_g1_i2::g.5587::m.5587	380240	322960	813340	421420	3147400	149320	3391300	3096100	2121700	0	518290	602210	0	0	0
TRINITY_DN14143_c3_g2::TRINITY_DN14143_c3_g2_i2::g.32997::m.32997	192740	0	180630	314880	102250	0	0	403500	0	0	627110	1105700	3946800	3041600	5015400
TRINITY_DN16212_c0_g1::TRINITY_DN16212_c0_g1_i2::g.63955::m.63955	861360	190310	847360	850710	1059300	311930	0	830250	324790	0	2054800	2722500	705880	1952800	2182400
TRINITY_DN11356_c0_g1::TRINITY_DN11356_c0_g1_i1::g.7113::m.7113	0	0	0	0	0	0	0	0	0	0	0	0	3138000	7667500	4070400
TRINITY_DN15198_c1_g2::TRINITY_DN15198_c1_g2_i7::g.48337::m.48337	0	0	0	0	0	0	0	0	0	0	0	0	5441100	5632500	3799600

TRINITY_DN19436_c2_g3::TRINITY_DN19436_c2_g3_i1::g.118048::m.118048	404940	499840	1615500	1561500	1700400	316860	1185000	773980	1491600	0	756920	0	1908800	1276400	1372400
TRINITY_DN13757_c0_g1::TRINITY_DN13757_c0_g1_i4::g.28204::m.28204	0	0	0	0	0	0	0	0	0	269880	380840	0	3156000	4608200	6444600
TRINITY_DN14326_c0_g1::TRINITY_DN14326_c0_g1_i2::g.35500::m.35500	0	0	0	0	225490	0	0	407920	0	0	0	0	4351300	5189300	4637300
TRINITY_DN17638_c0_g5::TRINITY_DN17638_c0_g5_i1::g.87396::m.87396	114880	0	48114	108900	0	0	0	0	0	0	0	0	1733900	5589000	7212400
TRINITY_DN16307_c2_g1::TRINITY_DN16307_c2_g1_i9::g.65550::m.65550	0	0	0	0	0	0	0	0	0	0	0	0	5146700	5052100	4534500
TRINITY_DN18255_c1_g1::TRINITY_DN18255_c1_g1_i6::g.97743::m.97743	0	0	0	0	0	0	0	0	0	0	0	688900	4588000	4925300	4424800
TRINITY_DN18634_c2_g1::TRINITY_DN18634_c2_g1_i4::g.104214::m.104214	1012600	385240	1484200	1378700	136370	0	719980	0	1465300	327850	1724400	1693100	559470	1503800	2230200
TRINITY_DN12779_c0_g1::TRINITY_DN12779_c0_g1_i3::g.15740::m.15740	859740	0	133910	987850	852450	0	125430	0	0	123830	620150	0	2799400	3963200	4137300
TRINITY_DN15549_c2_g2::TRINITY_DN15549_c2_g2_i1::g.53640::m.53640	83987	25537	64674	73162	278580	82207	273190	208980	0	254040	540080	0	5757400	2120900	4834900
TRINITY_DN19606_c0_g1::TRINITY_DN19606_c0_g1_i15::g.121023::m.121023	192970	26304	212000	130670	385320	181840	583640	480700	0	0	1130000	0	2415100	5851300	2940700
TRINITY_DN16691_c0_g1::TRINITY_DN16691_c0_g1_i7::g.71695::m.71695	0	0	236180	244880	607210	0	821560	944560	1250300	1598400	1864000	2668900	0	2110100	2023600
TRINITY_DN16311_c1_g1::TRINITY_DN16311_c1_g1_i8::g.65782::m.65782	0	0	0	0	0	0	0	0	0	0	0	0	2915100	3473200	7953600
TRINITY_DN15482_c4_g1::TRINITY_DN15482_c4_g1_i5::g.52502::m.52502	59153	0	42095	0	0	0	0	0	0	0	0	0	4420400	4560300	5256000
TRINITY_DN15556_c2_g3::TRINITY_DN15556_c2_g3_i7::g.53767::m.53767	275090	34100	346230	280590	590160	407530	267740	0	0	673220	998900	2325200	3480700	2170800	2457600
TRINITY_DN12323_c0_g1::TRINITY_DN12323_c0_g1_i4::g.11964::m.11964	0	0	0	0	0	0	0	0	0	0	0	0	4256100	4654200	5382300
TRINITY_DN15236_c1_g2::TRINITY_DN15236_c1_g2_i4::g.49063::m.49063	596420	128940	0	571760	1110500	234260	621510	175000	695340	193540	0	726290	2229500	2543000	4456800
TRINITY_DN17457_c4_g1::TRINITY_DN17457_c4_g1_i4::g.83960::m.83960	955870	371610	1321600	952530	0	272360	490540	764280	804930	1109200	1181600	3254000	736800	1731900	312180
TRINITY_DN11580_c0_g1::TRINITY_DN11580_c0_g1_i1::g.7933::m.7933	445830	101280	440370	503980	1101600	0	0	148890	1030200	0	3496100	5989600	323990	0	643580
TRINITY_DN15072_c0_g1::TRINITY_DN15072_c0_g1_i2::g.46447::m.46447	452100	87934	41501	275320	0	0	463360	929950	3185100	1273300	2172100	1784000	1442700	96501	1944400
TRINITY_DN19781_c5_g1::TRINITY_DN19781_c5_g1_i1::g.123563::m.123563	0	0	0	0	0	0	0	0	0	0	207470	0	3979400	5882600	4048700

TRINITY_DN19199_c1_g1::TRINITY_DN19199_c1_g1_i2::g.113819::m.1138	0	0	0	0	0	0	0	0	0	0	0	0	0	14110000	0
TRINITY_DN11501_c0_g1::TRINITY_DN11501_c0_g1_i5::g.7580::m.7580	0	0	0	0	547250	555400	1357600	451100	4041600	793760	2120200	4127100	0	0	104070
TRINITY_DN18781_c0_g5::TRINITY_DN18781_c0_g5_i3::g.106209::m.106209	0	34426	0	0	0	0	259220	222230	0	140780	0	0	4528200	4713600	4180500
TRINITY_DN19854_c2_g2::TRINITY_DN19854_c2_g2_i3::g.124560::m.124560	0	0	0	0	0	0	0	0	0	0	0	0	4663800	4482300	4843400
TRINITY_DN14973_c1_g2::TRINITY_DN14973_c1_g2_i1::g.45015::m.45015	0	0	0	0	0	0	0	0	0	0	0	0	2809800	5322900	5843000
TRINITY_DN16462_c1_g1::TRINITY_DN16462_c1_g1_i7::g.68028::m.68028	617880	160520	0	636770	1130100	218040	1746800	1325900	988350	623270	2587600	1634200	795990	771180	696360
TRINITY_DN16061_c2_g1::TRINITY_DN16061_c2_g1_i1::g.61310::m.61310	823580	168870	962600	727550	332350	234460	1536600	1095300	467970	120950	1939600	0	1287700	2506200	1704300
TRINITY_DN15683_c2_g1::TRINITY_DN15683_c2_g1_i10::g.55639::m.55639	2948000	921330	3908900	3572000	0	0	0	2548400	0	0	0	0	0	0	0
TRINITY_DN11090_c0_g1::TRINITY_DN11090_c0_g1_i1::g.6289::m.6289	0	0	0	0	0	0	0	0	0	0	0	0	1773600	6431400	5685100
TRINITY_DN16191_c2_g1::TRINITY_DN16191_c2_g1_i7::g.63681::m.63681	587710	156210	869380	521450	536010	250550	312640	747430	0	876840	1998200	639130	1858300	1535700	2978100
TRINITY_DN19075_c0_g2::TRINITY_DN19075_c0_g2_i2::g.111296::m.111296	0	0	87205	0	0	0	0	0	0	0	0	0	4834300	5625900	3289400
TRINITY_DN11919_c0_g1::TRINITY_DN11919_c0_g1_i1::g.9495::m.9495	714430	145880	444040	499080	0	0	749480	0	2288700	0	0	0	4217600	760040	3957900
TRINITY_DN17942_c1_g1::TRINITY_DN17942_c1_g1_i6::g.91683::m.91683	0	0	0	0	0	0	0	0	0	0	0	0	4052900	4062400	5610400
TRINITY_DN15935_c0_g1::TRINITY_DN15935_c0_g1_i1::g.59258::m.59258	171770	35302	207770	346380	0	178900	427690	400010	0	0	293320	0	3730700	4838700	3084900
TRINITY_DN16842_c1_g4::TRINITY_DN16842_c1_g4_i5::g.74459::m.74459	251150	88770	288420	188530	491930	200620	1196000	414640	1357500	493540	3005900	3272200	764960	1060700	507460
TRINITY_DN14360_c0_g2::TRINITY_DN14360_c0_g2_i2::g.35887::m.35887	45908	0	0	0	63488	0	0	0	0	0	0	191640	3038100	3716100	6516700
TRINITY_DN13161_c0_g1::TRINITY_DN13161_c0_g1_i3::g.20601::m.20601	28100	0	0	63561	0	0	0	1988100	5994900	3966900	1518000	0	0	0	0
TRINITY_DN17755_c1_g2::TRINITY_DN17755_c1_g2_i5::g.89168::m.89168	50593	0	36702	0	0	0	103040	0	0	0	2934400	2875800	2381100	1038400	4084000
TRINITY_DN17545_c0_g1::TRINITY_DN17545_c0_g1_i5::g.84940::m.84940	0	0	0	0	0	0	0	0	67245	0	0	0	5203100	3444500	4776800
TRINITY_DN11691_c0_g1::TRINITY_DN11691_c0_g1_i1::g.8068::m.8068	0	0	0	0	0	0	0	0	0	0	0	0	2258700	5300000	5862800
TRINITY_DN14965_c0_g1::TRINITY_DN14965_c0_g1_i3::g.45244::m.45244	634910	35358	856640	694010	121880	193160	1001700	0	1668000	187780	3057400	0	1569900	1715500	1681800

TRINITY_DN17740_c0_g1::TRINITY_DN17740_c0_g1_i2::g.89044::m.89044	440190	163740	513380	463910	0	0	0	85191	298470	103390	0	1627100	3256400	2985100	3461700
TRINITY_DN16246_c0_g1::TRINITY_DN16246_c0_g1_i1::g.63895::m.63895	730220	111900	781460	771910	451930	502840	751850	868320	683240	0	3040600	2282100	340450	1252400	811010
TRINITY_DN18982_c0_g1::TRINITY_DN18982_c0_g1_i8::g.109877::m.109877	176290	22907	308470	276610	138290	0	530620	391240	0	245250	316650	3402200	1901700	3702100	1932600
TRINITY_DN13531_c1_g1::TRINITY_DN13531_c1_g1_i7::g.25242::m.25242	0	0	0	0	0	0	0	0	0	0	0	0	4319200	4958800	4034900
TRINITY_DN13348_c2_g1::TRINITY_DN13348_c2_g1_i3::g.22605::m.22605	0	0	0	0	0	0	0	0	0	0	0	0	3984200	5271500	4052000
TRINITY_DN19420_c3_g1::TRINITY_DN19420_c3_g1_i7::g.117669::m.117669	0	0	0	0	0	0	0	0	0	0	0	0	7143500	4895300	1247300
TRINITY_DN13350_c3_g1::TRINITY_DN13350_c3_g1_i5::g.22631::m.22631	0	0	0	0	0	0	0	0	0	0	0	0	3924000	4926300	4351300
TRINITY_DN16612_c3_g2::TRINITY_DN16612_c3_g2_i3::g.70349::m.70349	0	0	0	0	0	0	0	0	0	0	0	0	4109400	4300400	4788200
TRINITY_DN12310_c0_g1::TRINITY_DN12310_c0_g1_i3::g.11787::m.11787	1389800	534950	1607700	1389700	384020	434540	0	0	1273700	1114800	1941600	1964300	433570	507050	207370
TRINITY_DN14939_c1_g2::TRINITY_DN14939_c1_g2_i3::g.44685::m.44685	96177	0	0	489400	568410	500700	903290	0	2726200	0	0	7038200	0	358570	480910
TRINITY_DN10911_c0_g2::TRINITY_DN10911_c0_g2_i2::g.5805::m.5805	0	0	51769	47170	183400	0	0	0	445590	155170	579410	1397700	2966100	3943000	3368900
TRINITY_DN16718_c6_g1::TRINITY_DN16718_c6_g1_i4::g.72149::m.72149	84102	23206	125270	60816	661950	74851	454810	324050	2970000	1202300	2298800	4823900	0	0	0
TRINITY_DN16625_c2_g1::TRINITY_DN16625_c2_g1_i8::g.70673::m.70673	263380	124220	301440	314670	316880	164480	392790	552080	0	960500	3502400	2569600	1876800	1241800	485750
TRINITY_DN15294_c5_g1::TRINITY_DN15294_c5_g1_i4::g.49817::m.49817	38311	0	0	0	0	86749	0	157570	0	0	0	0	4505200	5076000	3136300
TRINITY_DN19873_c6_g8::TRINITY_DN19873_c6_g8_i6::g.124910::m.124910	0	0	0	0	0	0	0	0	0	0	0	0	2725600	6417200	3838200
TRINITY_DN15424_c2_g3::TRINITY_DN15424_c2_g3_i3::g.51667::m.51667	0	0	0	0	0	0	0	0	0	0	0	0	4420100	3054200	5464400
TRINITY_DN16774_c0_g1::TRINITY_DN16774_c0_g1_i9::g.73138::m.73138	657900	0	622510	442630	536610	0	0	211840	940640	675960	1955200	3428000	453890	1674500	1273900
TRINITY_DN17278_c1_g1::TRINITY_DN17278_c1_g1_i1::g.81211::m.81211	0	0	0	0	0	0	0	0	0	0	0	0	2008600	8762800	2050100
TRINITY_DN13302_c0_g2::TRINITY_DN13302_c0_g2_i1::g.22438::m.22438	82518	45681	109880	145340	0	0	0	0	0	0	0	899900	2353200	5425100	3712800
TRINITY_DN12343_c0_g1::TRINITY_DN12343_c0_g1_i5::g.11815::m.11815	0	0	0	0	0	0	0	0	0	0	0	0	4573200	3963500	4212500

TRINITY_DN16818_c0_g1::TRINITY_DN16818_c0_g1_i9::g.73983::m.73983	0	0	337950	0	365870	0	0	0	0	0	0	2204300	1663900	3549800	4600300
TRINITY_DN19014_c2_g1::TRINITY_DN19014_c2_g1_i4::g.110590::m.110590	0	0	0	0	0	0	0	0	0	112220	0	0	5653900	4482000	2461600
TRINITY_DN12914_c1_g1::TRINITY_DN12914_c1_g1_i4::g.17252::m.17252	204360	79898	174020	194430	170670	0	0	123240	0	0	855670	0	3858600	1988100	5019600
TRINITY_DN17100_c3_g1::TRINITY_DN17100_c3_g1_i1::g.78525::m.78525	0	0	0	0	0	0	0	0	0	0	0	0	2990200	3086300	6578900
TRINITY_DN14403_c4_g2::TRINITY_DN14403_c4_g2_i1::g.36526::m.36526	0	0	0	0	0	0	0	0	0	0	0	0	3475000	3956700	5211800
TRINITY_DN18412_c2_g2::TRINITY_DN18412_c2_g2_i2::g.100143::m.100143	0	0	0	0	0	0	0	0	0	0	0	0	3651700	2892100	6095700
TRINITY_DN14115_c3_g1::TRINITY_DN14115_c3_g1_i10::g.32650::m.32650	91070	0	132810	107870	0	0	0	0	477140	0	331800	0	2875400	4943300	3645400
TRINITY_DN15464_c0_g5::TRINITY_DN15464_c0_g5_i1::g.52274::m.52274	0	0	0	0	498040	0	0	0	3306800	1986600	0	3647200	0	3130800	0
TRINITY_DN15531_c1_g1::TRINITY_DN15531_c1_g1_i14::g.53405::m.53405	140730	139730	523090	117960	1096100	305560	1072500	1583500	0	835290	4316600	2167300	110580	148670	0
TRINITY_DN12587_c0_g1::TRINITY_DN12587_c0_g1_i1::g.13954::m.13954	631700	153200	708790	749860	148970	0	0	154150	862230	251780	750300	1056900	1741800	2495200	2845900
TRINITY_DN17254_c0_g1::TRINITY_DN17254_c0_g1_i5::g.81103::m.81103	105040	80586	130960	122680	272590	0	976590	590170	1633000	248180	0	1993100	1491800	3248600	1633700
TRINITY_DN17518_c0_g1::TRINITY_DN17518_c0_g1_i5::g.85741::m.85741	559530	0	439960	0	766290	0	1143600	841040	0	962490	1063500	0	2843400	3578700	311210
TRINITY_DN16163_c4_g1::TRINITY_DN16163_c4_g1_i1::g.63306::m.63306	170740	77813	301880	239840	365370	662750	1470100	1041400	1338200	0	2007600	871780	364600	2188900	1397200
TRINITY_DN16238_c3_g1::TRINITY_DN16238_c3_g1_i4::g.64390::m.64390	552670	323540	1006100	543290	266150	0	686990	548070	1402700	740080	1305200	2785600	793220	735460	794390
TRINITY_DN19244_c2_g1::TRINITY_DN19244_c2_g1_i18::g.114657::m.114657	0	0	0	0	0	0	0	0	0	0	0	0	4478200	3680600	4248100
TRINITY_DN19880_c6_g4::TRINITY_DN19880_c6_g4_i2::g.125001::m.125001	0	0	0	0	0	0	0	0	0	0	0	0	3356100	4576700	4465600
TRINITY_DN18615_c1_g3::TRINITY_DN18615_c1_g3_i2::g.103395::m.103395	165790	172370	717130	0	922180	0	0	0	2348200	1916500	3113300	3012200	0	0	0
TRINITY_DN15441_c0_g1::TRINITY_DN15441_c0_g1_i3::g.51487::m.51487	68364	0	68182	92779	199460	0	0	0	0	0	6842000	4479800	180650	204990	153370
TRINITY_DN16789_c2_g4::TRINITY_DN16789_c2_g4_i5::g.73232::m.73232	0	0	0	0	0	0	0	0	143900	0	0	0	3550700	4764600	3817500
TRINITY_DN12003_c0_g1::TRINITY_DN12003_c0_g1_i1::g.9933::m.9933	0	0	0	0	0	0	0	0	0	0	111340	0	4599200	3645700	3898000
TRINITY_DN14879_c3_g3::TRINITY_DN14879_c3_g3_i2::g.43725::m.43725	0	0	46022	42364	0	0	0	100880	0	0	230970	0	3755600	4089900	3971900

TRINITY_DN17985_c0_g4::TRINITY_DN17985_c0_g4_i1::g.93309::m.93309	0	0	0	0	0	0	0	0	0	0	0	0	4358800	5090100	2771800
TRINITY_DN13592_c0_g2::TRINITY_DN13592_c0_g2_i5::g.25790::m.25790	390320	446240	503880	417500	0	201410	0	350760	383700	1888900	2549000	3741300	92293	1228200	0
TRINITY_DN19576_c0_g1::TRINITY_DN19576_c0_g1_i3::g.120043::m.120043	435690	107530	398230	490380	572320	490160	1075600	594500	0	231700	1249500	5976000	570420	0	0
TRINITY_DN16215_c5_g2::TRINITY_DN16215_c5_g2_i7::g.63985::m.63985	0	0	43489	69405	222390	0	0	0	0	0	611550	886550	2074100	4212500	4040300
TRINITY_DN18909_c0_g1::TRINITY_DN18909_c0_g1_i4::g.108774::m.108774	0	0	0	93673	0	0	0	70100	405820	0	241900	607830	2708100	4550000	3347900
TRINITY_DN15836_c2_g1::TRINITY_DN15836_c2_g1_i8::g.57209::m.57209	25450	0	38973	22393	294700	0	302960	0	0	0	0	0	4456000	3468600	3358800
TRINITY_DN13140_c0_g3::TRINITY_DN13140_c0_g3_i1::g.20389::m.20389	0	0	0	0	0	0	0	0	0	0	0	0	4422700	5187100	2357000
TRINITY_DN16820_c1_g1::TRINITY_DN16820_c1_g1_i7::g.73896::m.73896	37482	0	47617	42419	0	0	0	0	0	0	0	412230	2586200	3388500	5354300
TRINITY_DN20043_c7_g1::TRINITY_DN20043_c7_g1_i1::g.128234::m.128234	557390	0	0	0	439260	197980	185150	1087600	785460	839730	2907300	2371900	372950	743930	1378900
TRINITY_DN13259_c0_g1::TRINITY_DN13259_c0_g1_i1::g.21585::m.21585	0	0	0	0	0	0	0	0	111710	0	0	0	2677200	4875300	4202000
TRINITY_DN18601_c0_g1::TRINITY_DN18601_c0_g1_i6::g.101598::m.101598	516090	203150	592740	677090	577760	510200	950960	463300	1625200	635900	1178900	3312600	502820	0	85130
TRINITY_DN15621_c1_g1::TRINITY_DN15621_c1_g1_i6::g.54532::m.54532	0	0	0	0	0	0	270260	498930	0	0	0	0	2935500	4642200	3451700
TRINITY_DN15203_c1_g1::TRINITY_DN15203_c1_g1_i8::g.48552::m.48552	0	0	0	0	0	0	0	0	0	0	0	0	3936400	2555800	5206300
TRINITY_DN15205_c1_g1::TRINITY_DN15205_c1_g1_i3::g.48499::m.48499	0	0	0	67884	1520200	754430	1238200	1225000	0	1437100	2953300	2481100	0	0	0
TRINITY_DN16773_c2_g1::TRINITY_DN16773_c2_g1_i3::g.73056::m.73056	0	0	0	0	0	0	0	0	0	0	0	0	3675900	2732100	5237700
TRINITY_DN16557_c0_g1::TRINITY_DN16557_c0_g1_i4::g.69370::m.69370	475650	216980	806240	638890	154720	524940	554560	673070	0	1242100	1897200	2136700	434910	729360	1121400
TRINITY_DN16644_c3_g1::TRINITY_DN16644_c3_g1_i2::g.70216::m.70216	0	0	0	0	0	0	0	0	0	0	0	0	3021100	3493000	5060100
TRINITY_DN15438_c0_g1::TRINITY_DN15438_c0_g1_i13::g.52894::m.52894	0	0	0	0	0	0	173870	171340	0	0	948570	1714900	3605000	2737500	2188200
TRINITY_DN12890_c2_g4::TRINITY_DN12890_c2_g4_i2::g.17047::m.17047	315240	302650	155660	597300	0	0	384430	0	0	0	0	289450	2685200	4074500	2708400

TRINITY_DN19235_c2_g2::TRINITY_DN19235_c2_g2_i3::g.114333::m.114333	243200	0	208180	0	654090	178890	1083700	0	2003600	323750	3041400	2768400	599060	399630	0
TRINITY_DN19013_c0_g2::TRINITY_DN19013_c0_g2_i3::g.110484::m.110484	0	0	0	0	0	58578	165440	87112	0	0	0	0	3062800	3662200	4464900
TRINITY_DN14279_c0_g2::TRINITY_DN14279_c0_g2_i1::g.34822::m.34822	50914	0	0	0	0	0	0	0	0	0	0	0	2639700	5038300	3759200
TRINITY_DN15614_c2_g1::TRINITY_DN15614_c2_g1_i7::g.54755::m.54755	252800	96011	392320	400010	0	0	108750	112930	666610	0	0	0	2779600	3321100	3335800
TRINITY_DN16133_c0_g4::TRINITY_DN16133_c0_g4_i5::g.62653::m.62653	457960	0	149370	509990	634900	222360	356570	787040	2794200	1597700	0	3718700	160710	0	0
TRINITY_DN18799_c1_g2::TRINITY_DN18799_c1_g2_i3::g.106472::m.106472	0	0	0	0	0	0	0	0	0	0	0	0	3074000	6015300	2294600
TRINITY_DN19791_c7_g4::TRINITY_DN19791_c7_g4_i2::g.123739::m.123739	0	0	0	0	177370	58359	245710	233030	4273500	0	3463500	2890800	0	0	0
TRINITY_DN14197_c0_g1::TRINITY_DN14197_c0_g1_i2::g.33493::m.33493	0	0	0	0	0	0	0	0	0	0	0	107350	2432500	5412100	3368100
TRINITY_DN16625_c3_g1::TRINITY_DN16625_c3_g1_i9::g.70678::m.70678	52825	161950	484650	0	256910	0	375880	0	1899200	750650	2008100	0	340350	4026400	958360
TRINITY_DN11558_c0_g1::TRINITY_DN11558_c0_g1_i1::g.7858::m.7858	340410	43087	362730	278080	890720	216690	204740	700010	581450	448150	1517300	5728700	0	0	0
TRINITY_DN13381_c2_g2::TRINITY_DN13381_c2_g2_i20::g.23020::m.23020	174660	102600	237730	252690	165580	0	754110	0	309780	194950	320990	449550	1859900	3926400	2532500
TRINITY_DN12837_c2_g6::TRINITY_DN12837_c2_g6_i1::g.16583::m.16583	1508100	518320	1607700	1585600	442930	0	522120	383510	950360	868390	0	1543300	589170	472320	249600
TRINITY_DN17167_c2_g1::TRINITY_DN17167_c2_g1_i1::g.79577::m.79577	0	54356	0	144520	0	0	0	0	0	0	0	0	3280800	4454000	3306500
TRINITY_DN15923_c1_g1::TRINITY_DN15923_c1_g1_i8::g.59029::m.59029	11232000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN15294_c5_g3::TRINITY_DN15294_c5_g3_i1::g.49818::m.49818	0	0	0	0	0	0	0	0	0	0	266450	446810	2462000	5185000	2863500
TRINITY_DN16184_c0_g3::TRINITY_DN16184_c0_g3_i5::g.63369::m.63369	0	0	0	0	0	0	0	0	0	0	0	0	2897900	4222100	4089800
TRINITY_DN17874_c2_g1::TRINITY_DN17874_c2_g1_i9::g.91168::m.91168	0	0	0	0	0	0	0	0	0	0	0	0	2664400	4287900	4199400
TRINITY_DN18048_c4_g4::TRINITY_DN18048_c4_g4_i5::g.94249::m.94249	40449	0	40845	0	0	0	0	0	1865100	0	2500500	3237600	991160	819650	1613900
TRINITY_DN19270_c0_g2::TRINITY_DN19270_c0_g2_i4::g.115031::m.115031	0	0	0	0	0	0	0	0	0	0	0	0	3480300	5137500	2485900
TRINITY_DN16102_c2_g6::TRINITY_DN16102_c2_g6_i1::g.62197::m.62197	0	136130	362010	368190	606930	326650	677390	0	1004900	714540	2566400	1660500	0	2634800	0

TRINITY_DN14814_c1_g3::TRINITY_DN14814_c1_g3_i3::g.42810::m.42810	0	0	0	0	77128	117740	0	91602	0	0	0	345370	3896500	3873900	2643100
TRINITY_DN13485_c2_g2::TRINITY_DN13485_c2_g2_i2::g.24426::m.24426	31136	0	0	0	0	0	0	0	0	0	0	0	4715300	4497600	1789100
TRINITY_DN15075_c1_g2::TRINITY_DN15075_c1_g2_i1::g.46516::m.46516	0	0	0	0	0	0	0	0	0	0	0	0	2729000	2830800	5419900
TRINITY_DN13860_c0_g1::TRINITY_DN13860_c0_g1_i1::g.29366::m.29366	293450	46675	402310	322150	162490	95982	0	465260	0	0	0	528650	1387700	4197000	3067800
TRINITY_DN19929_c0_g1::TRINITY_DN19929_c0_g1_i9::g.126183::m.126183	0	0	0	0	0	0	0	0	0	0	0	0	2915900	3801000	4247600
TRINITY_DN15983_c2_g1::TRINITY_DN15983_c2_g1_i5::g.59899::m.59899	0	0	0	0	0	0	0	0	0	0	0	0	3760500	4706500	2494400
TRINITY_DN17158_c8_g2::TRINITY_DN17158_c8_g2_i1::g.79404::m.79404	0	0	0	0	0	0	0	0	0	0	0	0	4630900	3018200	3312200
TRINITY_DN16000_c0_g1::TRINITY_DN16000_c0_g1_i10::g.60178::m.60178	0	0	0	0	0	0	0	0	0	0	0	0	3272100	2974600	4680100
TRINITY_DN15045_c2_g1::TRINITY_DN15045_c2_g1_i7::g.46215::m.46215	0	0	0	0	0	0	0	0	0	0	0	0	2823700	3992000	4056600
TRINITY_DN19898_c1_g2::TRINITY_DN19898_c1_g2_i1::g.123971::m.123971	0	0	0	0	0	0	0	0	0	0	0	0	3474800	3763800	3630100
TRINITY_DN14630_c1_g1::TRINITY_DN14630_c1_g1_i1::g.39822::m.39822	0	0	0	0	0	0	0	0	0	0	0	0	2112200	2323100	6392100
TRINITY_DN15863_c0_g1::TRINITY_DN15863_c0_g1_i12::g.58136::m.58136	510250	0	579520	0	660130	545250	0	0	2001900	1364400	2587900	2536500	0	0	0
TRINITY_DN18049_c1_g3::TRINITY_DN18049_c1_g3_i3::g.94352::m.94352	0	0	0	0	149660	89269	0	0	0	0	0	0	1890600	4251100	4404500
TRINITY_DN19093_c2_g2::TRINITY_DN19093_c2_g2_i1::g.111778::m.111778	0	0	0	0	0	0	0	0	0	0	0	0	1511000	7156000	1986800
TRINITY_DN13133_c2_g1::TRINITY_DN13133_c2_g1_i2::g.20342::m.20342	574730	0	746690	412660	223880	37601	164620	0	521130	0	168120	1880000	1526300	2700800	1692500
TRINITY_DN15315_c0_g1::TRINITY_DN15315_c0_g1_i1::g.50016::m.50016	0	0	0	0	0	0	0	0	0	0	0	0	3735100	2986800	3911700
TRINITY_DN13727_c0_g1::TRINITY_DN13727_c0_g1_i1::g.27676::m.27676	389830	195880	435010	935680	0	0	309900	163300	0	0	0	2161400	1476700	1515500	3002500
TRINITY_DN19454_c4_g2::TRINITY_DN19454_c4_g2_i2::g.118225::m.118225	0	0	0	0	0	0	0	0	0	0	0	0	3735100	4578600	2213800
TRINITY_DN15177_c0_g1::TRINITY_DN15177_c0_g1_i2::g.47833::m.47833	63224	0	63898	122780	0	0	0	0	0	0	0	484790	4059900	2240900	3447600
TRINITY_DN13215_c0_g4::TRINITY_DN13215_c0_g4_i6::g.21439::m.21439	289450	148700	527850	364250	0	0	0	0	962710	0	2042300	1988800	1323800	1442800	1358300

TRINITY_DN12615_c0_g2::TRINITY_DN12615_c0_g2_i14::g.14340::m.14340	0	0	0	0	0	0	1623000	660470	0	0	4431600	1091800	2641400	0	0
TRINITY_DN15558_c1_g3::TRINITY_DN15558_c1_g3_i8::g.53729::m.53729	32866	0	0	0	0	0	0	0	0	0	0	0	5368700	3353500	1688500
TRINITY_DN14114_c1_g1::TRINITY_DN14114_c1_g1_i9::g.32755::m.32755	0	0	0	0	0	0	0	0	0	0	0	0	3969200	3820300	2633700
TRINITY_DN18015_c3_g4::TRINITY_DN18015_c3_g4_i1::g.93638::m.93638	290840	0	569070	294130	400440	317780	247260	431260	1243300	435550	2146100	3915200	0	0	130370
TRINITY_DN19464_c2_g1::TRINITY_DN19464_c2_g1_i6::g.118273::m.118273	121930	0	57333	0	107670	0	0	0	0	0	0	0	1822900	4311600	3982900
TRINITY_DN18481_c3_g4::TRINITY_DN18481_c3_g4_i2::g.101020::m.101020	0	0	0	0	0	0	0	0	0	0	0	235140	2214000	4067200	3868500
TRINITY_DN16840_c2_g3::TRINITY_DN16840_c2_g3_i5::g.74315::m.74315	80060	0	176030	86034	0	0	77336	86782	193590	0	0	557820	2685200	3034200	3390200
TRINITY_DN16558_c0_g1::TRINITY_DN16558_c0_g1_i2::g.69315::m.69315	0	0	0	0	0	0	0	0	0	0	0	0	4395300	3085100	2882000
TRINITY_DN16629_c1_g1::TRINITY_DN16629_c1_g1_i1::g.70763::m.70763	2897900	578770	5051700	1347100	158450	0	0	0	0	0	0	0	0	0	322220
TRINITY_DN18667_c1_g2::TRINITY_DN18667_c1_g2_i6::g.104311::m.104311	0	0	0	0	0	0	0	0	0	0	0	0	3948200	3903900	2437200
TRINITY_DN19979_c5_g7::TRINITY_DN19979_c5_g7_i1::g.127021::m.127021	1062100	444240	1551400	1205700	734290	0	986960	843940	0	0	3448900	0	0	0	0
TRINITY_DN17020_c0_g1::TRINITY_DN17020_c0_g1_i5::g.77212::m.77212	0	0	0	0	0	0	0	0	0	0	0	0	2938500	2936100	4400700
TRINITY_DN17027_c2_g2::TRINITY_DN17027_c2_g2_i1::g.77239::m.77239	0	0	0	0	0	0	0	179710	0	0	0	0	2390800	3513100	4170700
TRINITY_DN19286_c0_g1::TRINITY_DN19286_c0_g1_i3::g.115330::m.115330	485460	55848	518010	634000	0	0	1393600	914710	0	556280	1235800	0	1627500	1381800	1445400
TRINITY_DN16223_c1_g2::TRINITY_DN16223_c1_g2_i2::g.64137::m.64137	0	0	0	0	915880	0	1538600	0	0	0	0	0	1406800	2212700	4161000
TRINITY_DN18521_c6_g6::TRINITY_DN18521_c6_g6_i4::g.101904::m.101904	0	0	0	0	1487800	0	0	1425800	2557800	0	0	3882800	0	842740	0
TRINITY_DN17250_c2_g1::TRINITY_DN17250_c2_g1_i27::g.80938::m.80938	481200	190970	461610	439330	554450	253770	0	517690	0	638930	958740	199440	685910	2189200	2603300
TRINITY_DN14788_c0_g4::TRINITY_DN14788_c0_g4_i2::g.42252::m.42252	0	0	0	0	0	0	0	0	0	0	0	0	1883000	5129000	3151000
TRINITY_DN16410_c3_g3::TRINITY_DN16410_c3_g3_i5::g.67165::m.67165	598890	27105	453830	513600	950520	0	316490	0	0	0	2444800	2622100	907600	954030	341020

TRINITY_DN14802_c2_g1::TRINITY_DN14802_c2_g1_i3::g.42628::m.42628	0	0	0	0	0	0	0	0	0	0	0	0	2072300	3741200	4303100
TRINITY_DN14967_c2_g1::TRINITY_DN14967_c2_g1_i8::g.44945::m.44945	0	0	0	0	0	0	0	0	0	0	0	0	2525600	3683700	3902500
TRINITY_DN16828_c0_g2::TRINITY_DN16828_c0_g2_i1::g.74105::m.74105	1914500	752230	2412700	1991300	0	391950	921730	0	0	0	0	0	467650	668100	569910
TRINITY_DN16105_c7_g3::TRINITY_DN16105_c7_g3_i3::g.62193::m.62193	0	0	0	0	310960	0	1110200	0	3251100	0	3901300	0	303520	399100	787710
TRINITY_DN15700_c1_g1::TRINITY_DN15700_c1_g1_i3::g.54890::m.54890	0	0	0	0	0	0	0	0	0	0	0	0	2332400	2490300	5195500
TRINITY_DN19704_c0_g2::TRINITY_DN19704_c0_g2_i1::g.122551::m.122551	0	0	0	0	0	0	0	0	0	0	0	0	2093200	3816400	4106600
TRINITY_DN15979_c0_g1::TRINITY_DN15979_c0_g1_i3::g.59847::m.59847	0	0	0	0	0	51811	0	0	0	0	0	0	3287300	3178800	3491300
TRINITY_DN14286_c1_g1::TRINITY_DN14286_c1_g1_i4::g.34874::m.34874	0	0	0	0	0	0	0	0	0	0	0	0	2863200	4723200	2360700
TRINITY_DN16521_c2_g4::TRINITY_DN16521_c2_g4_i1::g.68855::m.68855	0	0	0	0	0	0	0	0	0	0	0	0	3293500	2701200	3946000
TRINITY_DN18419_c1_g1::TRINITY_DN18419_c1_g1_i5::g.100150::m.1001	0	0	0	25607	0	0	0	0	0	0	117570	0	2704200	3886300	3195000
TRINITY_DN14469_c0_g1::TRINITY_DN14469_c0_g1_i2::g.37789::m.37789	0	0	0	0	0	0	0	0	0	0	0	0	2528000	2136600	5226700
TRINITY_DN19627_c1_g1::TRINITY_DN19627_c1_g1_i1::g.121154::m.1211	0	0	163780	0	0	0	0	0	0	0	0	230680	3177000	3062200	3232300
TRINITY_DN16420_c0_g2::TRINITY_DN16420_c0_g2_i4::g.67379::m.67379	656950	235190	669580	861050	270720	0	311870	0	0	0	0	1487500	1658300	1748500	1948600
TRINITY_DN12422_c0_g1::TRINITY_DN12422_c0_g1_i2::g.12726::m.12726	0	0	71023	439590	961700	38408	140330	1016300	1663700	1354800	2993500	1164600	0	0	0
TRINITY_DN16342_c0_g1::TRINITY_DN16342_c0_g1_i1::g.66087::m.66087	0	0	0	13908	0	0	0	0	0	0	82376	247840	1400900	4486400	3611300
TRINITY_DN14920_c0_g1::TRINITY_DN14920_c0_g1_i8::g.44465::m.44465	352240	172820	366290	331340	0	0	0	0	1308300	120230	0	2686600	1375500	1743300	1321700
TRINITY_DN7453_c0_g1::TRINITY_DN7453_c0_g1_i1::g.2128::m.2128	509700	215260	725050	621310	824580	266430	0	609850	783050	0	981350	1291500	0	1993800	941060
TRINITY_DN15558_c1_g3::TRINITY_DN15558_c1_g3_i7::g.53727::m.53727	0	0	0	0	0	0	0	0	0	0	0	0	3083300	3266100	3392300
TRINITY_DN17792_c0_g2::TRINITY_DN17792_c0_g2_i6::g.89728::m.89728	0	0	0	0	0	381370	0	1275600	0	0	0	6660200	0	0	1379700
TRINITY_DN19733_c2_g1::TRINITY_DN19733_c2_g1_i4::g.123110::m.123110	0	0	0	0	0	0	9303800	0	62135	0	134940	0	170130	0	0

TRINITY_DN14635_c2_g1::TRINITY_DN14635_c2_g1_i1::g.39353::m.39353	61267	0	116560	110150	0	182070	200060	57921	201170	227780	0	0	3761400	3609600	1131200
TRINITY_DN13787_c3_g4::TRINITY_DN13787_c3_g4_i2::g.28260::m.28260	25345	0	0	0	0	0	0	0	0	0	0	0	3069200	3353600	3171700
TRINITY_DN17621_c1_g3::TRINITY_DN17621_c1_g3_i2::g.87259::m.87259	0	0	0	0	0	0	0	0	169630	0	0	0	3955800	2130200	3357700
TRINITY_DN9267_c0_g1::TRINITY_DN9267_c0_g1_i1::g.3260::m.3260	0	0	136650	0	0	0	0	0	0	0	0	0	3913300	5557600	0
TRINITY_DN18406_c4_g1::TRINITY_DN18406_c4_g1_i5::g.99964::m.99964	0	0	0	0	0	0	0	0	0	0	0	0	3503500	3082900	2993000
TRINITY_DN19605_c0_g3::TRINITY_DN19605_c0_g3_i3::g.120913::m.120913	117250	24721	75285	55234	128710	0	169330	140320	0	0	0	376970	2360200	2963200	3156500
TRINITY_DN18631_c1_g1::TRINITY_DN18631_c1_g1_i3::g.103586::m.103586	0	0	0	0	0	0	0	0	0	0	0	0	3109700	2866100	3569500
TRINITY_DN18466_c3_g1::TRINITY_DN18466_c3_g1_i12::g.101047::m.101047	440390	86959	479730	315360	1811600	0	1459000	1861200	0	0	0	0	1331800	0	1707000
TRINITY_DN13201_c1_g1::TRINITY_DN13201_c1_g1_i6::g.20932::m.20932	153790	22571	206720	179100	722230	148010	0	417690	0	535610	362130	0	1947400	2475300	2319600
TRINITY_DN19814_c1_g3::TRINITY_DN19814_c1_g3_i1::g.124097::m.124097	686780	146380	545370	731790	0	0	0	0	0	849610	1532600	1649300	0	1742800	1599700
TRINITY_DN16248_c1_g2::TRINITY_DN16248_c1_g2_i1::g.64537::m.64537	525700	277120	611220	481600	1502400	460370	0	1442400	0	0	1695400	2437800	0	0	0
TRINITY_DN17313_c1_g1::TRINITY_DN17313_c1_g1_i12::g.81814::m.8181	806270	49655	678240	493870	0	277450	401760	758000	1020500	992390	1304400	2627100	0	0	0
TRINITY_DN10225_c0_g1::TRINITY_DN10225_c0_g1_i1::g.4474::m.4474	555050	0	482700	284880	0	0	0	0	994100	0	1255600	0	2550300	575610	2671800
TRINITY_DN13652_c1_g1::TRINITY_DN13652_c1_g1_i1::g.26699::m.26699	0	0	0	0	0	9363100	0	0	0	0	0	0	0	0	0
TRINITY_DN16192_c0_g2::TRINITY_DN16192_c0_g2_i1::g.63470::m.63470	0	0	0	0	0	0	0	0	0	0	0	0	3133800	2512700	3716000
TRINITY_DN18875_c2_g2::TRINITY_DN18875_c2_g2_i3::g.107932::m.107932	0	0	0	0	0	0	0	0	0	0	0	0	3203800	3158600	2941700
TRINITY_DN13691_c2_g1::TRINITY_DN13691_c2_g1_i3::g.27222::m.27222	0	0	84040	71116	0	0	0	0	0	0	0	0	1215200	5965300	1968200
TRINITY_DN15416_c2_g2::TRINITY_DN15416_c2_g2_i3::g.51536::m.51536	0	0	103620	224740	0	49481	0	0	0	261800	0	0	2304000	3755800	2602900
TRINITY_DN12883_c0_g1::TRINITY_DN12883_c0_g1_i3::g.16877::m.16877	110670	43300	152260	123070	0	258980	345690	0	0	1728200	1679300	2935000	610680	672120	593970
TRINITY_DN19511_c2_g3::TRINITY_DN19511_c2_g3_i2::g.119040::m.119040	0	0	0	0	0	0	0	0	0	0	0	0	0	4392200	4833100
TRINITY_DN11191_c0_g1::TRINITY_DN11191_c0_g1_i2::g.6575::m.6575	1274100	575260	1522600	1258700	369230	0	594330	0	0	0	0	3417300	204240	0	0

TRINITY_DN15949_c0_g1::TRINITY_DN15949_c0_g1_i6::g.59510::m.59510	0	0	180610	0	0	101120	208000	337710	0	0	516790	0	2426900	1745400	3604600
TRINITY_DN15397_c1_g1::TRINITY_DN15397_c1_g1_i5::g.51177::m.51177	0	0	0	0	0	0	0	0	0	0	0	0	3097000	3310300	2712300
TRINITY_DN11231_c0_g1::TRINITY_DN11231_c0_g1_i2::g.6700::m.6700	269140	79203	312130	467340	152270	80852	177330	255840	0	0	0	1623700	1608700	2471400	1620200
TRINITY_DN14649_c1_g6::TRINITY_DN14649_c1_g6_i3::g.39965::m.39965	0	0	0	0	0	0	0	0	0	0	0	0	2656300	2766800	3686200
TRINITY_DN13692_c0_g1::TRINITY_DN13692_c0_g1_i6::g.26626::m.26626	0	0	0	0	0	0	0	0	0	0	0	0	4401600	3862300	823920
TRINITY_DN12789_c1_g2::TRINITY_DN12789_c1_g2_i25::g.15964::m.15964	242360	144010	508860	284690	0	0	0	0	0	0	0	0	453850	3331000	4115600
TRINITY_DN17697_c2_g1::TRINITY_DN17697_c2_g1_i5::g.88410::m.88410	0	0	0	0	253460	72281	241190	189680	570800	491320	0	939850	2190500	303860	3822600
TRINITY_DN18388_c1_g1::TRINITY_DN18388_c1_g1_i7::g.99758::m.99758	0	0	0	0	0	0	0	84296	0	0	0	0	2129400	3983400	2801200
TRINITY_DN19535_c2_g2::TRINITY_DN19535_c2_g2_i7::g.119393::m.119393	0	0	0	0	0	0	0	0	0	0	0	0	3352600	3303200	2336600
TRINITY_DN11345_c0_g1::TRINITY_DN11345_c0_g1_i1::g.7064::m.7064	174110	0	441130	260350	565090	376210	1031300	186520	1277700	759960	552370	2114900	325610	662550	252610
TRINITY_DN14591_c4_g1::TRINITY_DN14591_c4_g1_i9::g.39216::m.39216	0	0	58642	0	0	0	0	0	0	0	0	0	3491800	3446200	1965300
TRINITY_DN14453_c2_g1::TRINITY_DN14453_c2_g1_i6::g.37399::m.37399	298180	136180	430260	375950	0	136570	726350	606410	1532800	1254100	1680500	1777300	0	0	0
TRINITY_DN16526_c1_g2::TRINITY_DN16526_c1_g2_i8::g.69034::m.69034	715890	206140	645390	629270	328390	363010	1212200	0	492240	1117800	330830	671020	675880	867990	696390
TRINITY_DN10373_c0_g1::TRINITY_DN10373_c0_g1_i1::g.4691::m.4691	0	93694	141520	139850	1229900	523930	1561400	381430	1138500	274680	2014100	0	999450	249940	185280
TRINITY_DN19332_c2_g1::TRINITY_DN19332_c2_g1_i2::g.116131::m.116131	760530	166590	908250	662660	0	0	0	0	0	154810	409750	0	2327400	1671600	1840000
TRINITY_DN14971_c0_g1::TRINITY_DN14971_c0_g1_i2::g.44966::m.44966	145990	0	145360	193990	321330	0	0	398100	1104300	411960	2089800	2267600	0	931850	861690
TRINITY_DN16859_c0_g3::TRINITY_DN16859_c0_g3_i1::g.74469::m.74469	499830	101030	0	237160	0	0	184630	93880	696950	1348100	2886600	2712800	0	0	105940
TRINITY_DN16399_c1_g2::TRINITY_DN16399_c1_g2_i5::g.67010::m.67010	0	0	0	0	0	0	0	190380	0	0	0	0	3146600	1942600	3583400
TRINITY_DN13466_c1_g1::TRINITY_DN13466_c1_g1_i2::g.24484::m.24484	0	0	0	0	0	0	0	0	0	0	0	0	2073700	571520	6153300
TRINITY_DN18053_c4_g1::TRINITY_DN18053_c4_g1_i4::g.94304::m.94304	0	0	0	0	0	0	0	0	0	0	0	0	3596300	2348300	2796200
TRINITY_DN18818_c1_g1::TRINITY_DN18818_c1_g1_i7::g.106901::m.1069	0	0	0	126390	216850	0	265540	283600	565890	0	964130	1859500	1319400	1568200	1569400

TRINITY_DN14578_c1_g1::TRINITY_DN14578_c1_g1_i8::g.39125::m.39125	0	0	0	0	109220	0	0	0	0	0	0	0	3498100	4498100	626260
TRINITY_DN13918_c1_g1::TRINITY_DN13918_c1_g1_i8::g.30345::m.30345	0	0	36645	0	0	0	0	0	0	0	0	0	1740500	3572000	3374200
TRINITY_DN18543_c1_g3::TRINITY_DN18543_c1_g3_i1::g.101857::m.101857	0	190490	0	0	0	0	0	0	1023000	0	0	1307300	1681800	2061900	2455500
TRINITY_DN17130_c2_g2::TRINITY_DN17130_c2_g2_i6::g.79154::m.79154	0	0	0	0	0	0	0	0	0	0	0	0	2418800	3041800	3251700
TRINITY_DN13127_c0_g1::TRINITY_DN13127_c0_g1_i1::g.20146::m.20146	0	0	0	0	0	0	0	0	0	0	0	0	2200800	3588800	2919000
TRINITY_DN11423_c0_g1::TRINITY_DN11423_c0_g1_i1::g.7308::m.7308	0	0	0	0	0	0	0	0	0	0	0	0	3160600	2577800	2966500
TRINITY_DN17687_c2_g1::TRINITY_DN17687_c2_g1_i6::g.88326::m.88326	492610	107380	65157	371980	0	39707	0	0	362050	155970	1815100	489700	1120300	1812000	1857500
TRINITY_DN19126_c0_g1::TRINITY_DN19126_c0_g1_i4::g.112486::m.112486	0	0	0	0	0	0	0	0	0	0	0	0	3108600	1856500	3708900
TRINITY_DN14181_c0_g3::TRINITY_DN14181_c0_g3_i1::g.33572::m.33572	0	0	0	0	0	0	0	0	0	0	0	0	1459100	2547200	4658700
TRINITY_DN14198_c0_g1::TRINITY_DN14198_c0_g1_i5::g.33635::m.33635	0	0	0	0	0	0	0	0	0	0	0	0	2139000	3236000	3269600
TRINITY_DN15488_c1_g5::TRINITY_DN15488_c1_g5_i3::g.52738::m.52738	93561	0	24429	128320	0	0	210940	220460	210480	833440	0	1586800	1473800	1590200	2264700
TRINITY_DN17665_c0_g2::TRINITY_DN17665_c0_g2_i3::g.87796::m.87796	2294300	864200	2703200	2221100	0	0	0	0	0	0	0	0	0	0	553020
TRINITY_DN11049_c0_g1::TRINITY_DN11049_c0_g1_i1::g.6211::m.6211	1010300	265120	1272800	670310	752330	145170	0	803750	803560	0	0	2906500	0	0	0
TRINITY_DN18004_c1_g11::TRINITY_DN18004_c1_g11_i1::g.93466::m.93466	1906300	0	1815000	1358300	0	0	0	0	0	0	0	3513400	0	0	0
TRINITY_DN17396_c1_g1::TRINITY_DN17396_c1_g1_i2::g.82990::m.82990	0	0	1254800	0	0	0	0	0	0	0	0	0	1797700	2828300	2678200
TRINITY_DN16113_c1_g1::TRINITY_DN16113_c1_g1_i2::g.62243::m.62243	0	0	0	0	0	0	0	0	0	0	0	0	2678400	2731900	3141200
TRINITY_DN12537_c5_g1::TRINITY_DN12537_c5_g1_i1::g.13612::m.13612	0	0	0	0	0	0	1142400	590180	1488700	0	5317200	0	0	0	0
TRINITY_DN13740_c0_g1::TRINITY_DN13740_c0_g1_i2::g.27757::m.27757	0	0	0	0	0	0	0	0	104170	0	0	0	1791600	4553200	2072000
TRINITY_DN13460_c3_g2::TRINITY_DN13460_c3_g2_i3::g.24327::m.24327	26102	0	50392	33972	0	0	0	0	0	0	0	0	2329100	4432900	1611000
TRINITY_DN14396_c0_g2::TRINITY_DN14396_c0_g2_i1::g.35371::m.35371	966220	222330	533290	764380	485520	0	1565300	1953600	0	1734600	0	0	117400	0	123810
TRINITY_DN18313_c3_g2::TRINITY_DN18313_c3_g2_i2::g.98848::m.98848	129480	0	90394	86623	105650	0	140010	117580	0	522850	545460	0	1766500	2996200	1964200

TRINITY_DN19187_c0_g2::TRINITY_DN19187_c0_g2_i3::g.113547::m.113547	123930	0	546100	532770	403640	0	0	0	1238300	969140	1854700	2016100	0	141920	636740
TRINITY_DN10969_c0_g1::TRINITY_DN10969_c0_g1_i1::g.5933::m.5933	228500	42942	296390	250220	335820	94268	0	212210	888450	0	1334900	3092300	577300	921530	184030
TRINITY_DN14875_c0_g2::TRINITY_DN14875_c0_g2_i7::g.43614::m.43614	0	0	0	0	0	0	0	0	0	0	0	0	2152900	4770500	1460100
TRINITY_DN16965_c3_g1::TRINITY_DN16965_c3_g1_i6::g.76283::m.76283	148010	0	3401400	3735100	0	0	133860	0	0	0	0	249900	247930	133270	238440
TRINITY_DN16752_c9_g1::TRINITY_DN16752_c9_g1_i5::g.72819::m.72819	0	0	0	0	0	0	0	0	0	0	0	0	2614000	3254200	2392700
TRINITY_DN17906_c0_g1::TRINITY_DN17906_c0_g1_i4::g.91749::m.91749	434870	91295	280890	273660	0	0	0	0	0	0	3085800	2931200	0	1129600	0
TRINITY_DN10627_c0_g1::TRINITY_DN10627_c0_g1_i1::g.5151::m.5151	0	0	0	0	0	0	0	0	0	0	0	0	2838900	2657900	2721200
TRINITY_DN11182_c0_g1::TRINITY_DN11182_c0_g1_i3::g.6546::m.6546	166310	24669	45905	119760	1030200	458030	239670	925210	447440	1283100	1988000	682520	104640	513370	187990
TRINITY_DN14268_c0_g1::TRINITY_DN14268_c0_g1_i4::g.34610::m.34610	0	0	0	44317	96755	0	0	0	0	102700	627970	381380	1857500	3118200	1983200
TRINITY_DN19877_c2_g3::TRINITY_DN19877_c2_g3_i1::g.125021::m.125021	0	0	0	0	0	0	0	0	0	0	0	0	1326500	1823900	5055600
TRINITY_DN17530_c3_g12::TRINITY_DN17530_c3_g12_i1::g.85464::m.85464	0	0	0	0	0	0	0	0	122540	0	0	0	2371100	2856800	2853300
TRINITY_DN14410_c0_g6::TRINITY_DN14410_c0_g6_i1::g.36618::m.36618	0	0	0	0	0	0	0	0	0	0	0	0	2295600	3051200	2828100
TRINITY_DN12098_c3_g1::TRINITY_DN12098_c3_g1_i8::g.10503::m.10503	626610	305510	719610	692220	0	602170	0	1054500	0	1641700	0	2325600	93852	104200	0
TRINITY_DN17739_c0_g2::TRINITY_DN17739_c0_g2_i3::g.89048::m.89048	43492	0	0	110390	0	0	0	329580	159120	0	208160	0	2313500	2649400	2321400
TRINITY_DN14157_c1_g1::TRINITY_DN14157_c1_g1_i4::g.33107::m.33107	430880	142020	544300	546150	912950	378260	616760	0	645420	305710	0	3538200	0	60550	0
TRINITY_DN18293_c3_g1::TRINITY_DN18293_c3_g1_i3::g.98277::m.98277	0	0	0	0	0	0	0	0	0	0	0	0	2452500	2815400	2837600
TRINITY_DN18745_c0_g3::TRINITY_DN18745_c0_g3_i8::g.105419::m.105419	242510	27088	344520	322310	1404900	224920	928210	228340	0	1224700	0	432890	0	1309000	1412100
TRINITY_DN12590_c2_g2::TRINITY_DN12590_c2_g2_i2::g.13982::m.13982	427480	190730	447840	503580	531410	369370	0	709530	0	0	3019200	1765200	126890	0	0
TRINITY_DN14010_c5_g1::TRINITY_DN14010_c5_g1_i2::g.31420::m.31420	0	0	0	0	0	0	0	0	0	0	0	0	6892100	0	1188600
TRINITY_DN15598_c2_g1::TRINITY_DN15598_c2_g1_i7::g.54284::m.54284	0	0	0	0	0	0	0	0	0	0	0	297860	2264800	3481300	2030600

TRINITY_DN11779_c0_g1::TRINITY_DN11779_c0_g1_i1::g.8787::m.8787	288510	87038	347960	305220	0	0	0	149240	633990	0	658060	1468200	2096900	1062300	960790
TRINITY_DN13676_c3_g1::TRINITY_DN13676_c3_g1_i3::g.27135::m.27135	173360	0	226660	219360	0	0	0	0	1123700	1115700	2501500	2077700	0	317960	300150
TRINITY_DN18865_c1_g1::TRINITY_DN18865_c1_g1_i8::g.107763::m.107763	223260	95969	333070	218080	312320	213010	469890	285780	0	0	1682700	2124100	1098400	985220	0
TRINITY_DN15886_c0_g2::TRINITY_DN15886_c0_g2_i6::g.58296::m.58296	0	0	0	0	0	0	0	0	0	0	0	0	2084400	3321500	2632300
TRINITY_DN11909_c0_g1::TRINITY_DN11909_c0_g1_i2::g.9470::m.9470	122740	33730	139110	145110	0	0	0	0	0	0	312050	419820	2011600	2418400	2397200
TRINITY_DN16963_c2_g3::TRINITY_DN16963_c2_g3_i1::g.76239::m.76239	0	0	0	0	0	0	0	0	263230	0	0	0	2508200	2389100	2838600
TRINITY_DN12323_c0_g2::TRINITY_DN12323_c0_g2_i3::g.11963::m.11963	0	0	0	0	0	0	0	0	0	0	0	0	1620400	4301400	2060800
TRINITY_DN13869_c6_g1::TRINITY_DN13869_c6_g1_i2::g.29653::m.29653	0	0	0	0	0	0	0	0	0	0	0	0	2104100	3016800	2852300
TRINITY_DN18287_c3_g1::TRINITY_DN18287_c3_g1_i2::g.98102::m.98102	260900	0	104510	438200	312930	0	872390	718820	0	303870	997430	2569800	549210	93435	746430
TRINITY_DN19305_c2_g3::TRINITY_DN19305_c2_g3_i4::g.115690::m.115690	0	0	110970	86498	0	0	0	0	0	0	225260	0	3418600	0	4105600
TRINITY_DN15008_c0_g3::TRINITY_DN15008_c0_g3_i2::g.45738::m.45738	0	0	0	0	0	0	0	0	0	0	0	0	966840	3695600	3268100
TRINITY_DN18232_c0_g1::TRINITY_DN18232_c0_g1_i6::g.97390::m.97390	0	0	24260	0	160690	0	0	0	0	0	0	0	3432800	1509900	2801600
TRINITY_DN17493_c2_g1::TRINITY_DN17493_c2_g1_i7::g.84644::m.84644	0	0	0	0	0	0	0	0	0	0	0	0	1601900	3118900	3174300
TRINITY_DN11669_c0_g1::TRINITY_DN11669_c0_g1_i1::g.8337::m.8337	0	0	0	0	0	0	0	0	0	0	0	0	1039000	5742800	1101000
TRINITY_DN18124_c0_g4::TRINITY_DN18124_c0_g4_i1::g.95606::m.95606	64552	0	62007	0	0	0	0	0	44445	0	0	0	1033200	3740100	2936700
TRINITY_DN11643_c0_g1::TRINITY_DN11643_c0_g1_i1::g.8230::m.8230	0	0	0	27614	0	0	0	0	0	0	0	0	2586000	2799700	2463300
TRINITY_DN17921_c3_g2::TRINITY_DN17921_c3_g2_i1::g.92117::m.92117	0	0	0	0	0	0	0	0	0	0	115810	0	2348800	3071100	2340200
TRINITY_DN17515_c0_g1::TRINITY_DN17515_c0_g1_i3::g.85102::m.85102	0	0	58035	0	0	0	131900	0	145070	236350	0	0	2681500	2780700	1816400
TRINITY_DN17501_c0_g2::TRINITY_DN17501_c0_g2_i6::g.84659::m.84659	0	0	0	0	0	0	102760	0	198160	165970	359290	0	3715800	1144100	2130200
TRINITY_DN11905_c0_g1::TRINITY_DN11905_c0_g1_i3::g.9416::m.9416	0	0	0	0	0	0	0	0	0	0	0	0	2050200	2900500	2853600
TRINITY_DN16017_c1_g2::TRINITY_DN16017_c1_g2_i2::g.60617::m.60617	0	0	0	0	94964	46496	0	0	0	0	0	0	2988900	2196600	2445500

TRINITY_DN10830_c0_g1::TRINITY_DN10830_c0_g1_i1::g.5629::m.5629	0	0	0	33924	107610	0	0	0	0	0	0	0	1467300	3484600	2663100
TRINITY_DN13736_c4_g2::TRINITY_DN13736_c4_g2_i5::g.27391::m.27391	427220	182230	833790	213130	0	0	150330	501730	0	1784100	0	0	457580	1850800	1302700
TRINITY_DN19177_c0_g1::TRINITY_DN19177_c0_g1_i1::g.113288::m.1132	0	0	0	0	0	0	0	0	0	0	0	0	2149000	2582000	2939000
TRINITY_DN19354_c2_g2::TRINITY_DN19354_c2_g2_i2::g.116436::m.116436	383290	111010	359590	694210	0	0	0	0	3128900	0	1335100	1649200	0	0	0
TRINITY_DN17688_c2_g6::TRINITY_DN17688_c2_g6_i1::g.88272::m.88272	0	69619	143060	163660	679420	229970	675290	812160	845600	650890	1994900	1370000	0	0	0
TRINITY_DN16306_c1_g1::TRINITY_DN16306_c1_g1_i3::g.65480::m.65480	0	0	0	0	293510	0	0	414050	2642400	0	0	3336000	0	201660	730390
TRINITY_DN18894_c1_g3::TRINITY_DN18894_c1_g3_i1::g.108226::m.108226	79850	0	76743	47916	0	0	0	0	0	148580	0	0	2690400	2695500	1873200
TRINITY_DN14391_c2_g3::TRINITY_DN14391_c2_g3_i1::g.36280::m.36280	0	0	0	0	1096800	913400	0	0	0	1771500	0	2827100	1000900	0	0
TRINITY_DN12367_c0_g1::TRINITY_DN12367_c0_g1_i3::g.12189::m.12189	0	0	0	0	0	0	0	0	0	0	275450	0	2917000	1593800	2811300
TRINITY_DN14985_c3_g2::TRINITY_DN14985_c3_g2_i1::g.45232::m.45232	0	0	0	0	0	0	0	0	0	0	0	0	684830	2583600	4328700
TRINITY_DN14724_c2_g1::TRINITY_DN14724_c2_g1_i1::g.41239::m.41239	0	0	0	0	0	0	0	0	0	0	0	0	1209700	2190500	4188400
TRINITY_DN10431_c0_g1::TRINITY_DN10431_c0_g1_i2::g.4811::m.4811	64841	52117	94706	69078	0	0	0	117200	0	0	0	0	2194600	1511600	3471600
TRINITY_DN12116_c0_g1::TRINITY_DN12116_c0_g1_i3::g.10615::m.10615	0	0	0	0	0	0	0	0	0	0	0	0	3040700	2122900	2403100
TRINITY_DN12248_c0_g2::TRINITY_DN12248_c0_g2_i1::g.11152::m.11152	0	0	0	0	0	0	0	0	0	0	0	0	1978100	2214300	3367500
TRINITY_DN14430_c0_g1::TRINITY_DN14430_c0_g1_i7::g.37424::m.37424	0	0	0	0	0	0	0	0	0	0	0	0	2018700	2677700	2857000
TRINITY_DN17797_c0_g1::TRINITY_DN17797_c0_g1_i20::g.88479::m.88479	0	0	0	0	0	0	0	0	0	0	0	0	3712700	3829400	0
TRINITY_DN16328_c4_g1::TRINITY_DN16328_c4_g1_i3::g.65859::m.65859	0	0	0	0	0	0	0	0	0	0	0	0	933480	3985400	2606700
TRINITY_DN14897_c3_g5::TRINITY_DN14897_c3_g5_i1::g.43938::m.43938	0	0	0	0	0	0	0	0	0	0	0	0	3334200	0	4185700
TRINITY_DN14545_c0_g1::TRINITY_DN14545_c0_g1_i2::g.38714::m.38714	203640	95034	228310	181400	0	135280	604710	358240	323920	543150	2782400	2061100	0	0	0
TRINITY_DN18713_c3_g1::TRINITY_DN18713_c3_g1_i2::g.105054::m.105054	0	0	0	0	462640	294980	776660	594070	1302400	947220	3128400	0	0	0	0

TRINITY_DN13940_c4_g1::TRINITY_DN13940_c4_g1_i3::g.30598::m.30598	0	0	0	0	0	0	0	0	0	0	0	0	1896600	2603200	2997400
TRINITY_DN18184_c1_g1::TRINITY_DN18184_c1_g1_i15::g.96527::m.96527	0	0	0	0	441340	192980	535560	0	920760	501730	0	0	1530700	1958000	1391100
TRINITY_DN17484_c0_g3::TRINITY_DN17484_c0_g3_i1::g.84435::m.84435	163950	0	360650	249750	0	0	556920	225780	0	0	0	2417100	0	1840400	1653200
TRINITY_DN13721_c0_g1::TRINITY_DN13721_c0_g1_i7::g.27621::m.27621	0	0	0	0	0	0	0	0	0	0	0	0	1973600	3218400	2268300
TRINITY_DN17006_c0_g4::TRINITY_DN17006_c0_g4_i2::g.76859::m.76859	0	0	0	0	0	0	0	0	0	0	0	0	3325600	2437600	1691200
TRINITY_DN13463_c1_g1::TRINITY_DN13463_c1_g1_i3::g.24177::m.24177	228180	0	209470	97930	337030	131330	480420	0	1734900	0	2150900	2074700	0	0	0
TRINITY_DN17769_c1_g1::TRINITY_DN17769_c1_g1_i1::g.89345::m.89345	450860	238590	259660	163080	0	0	853280	0	272420	0	561750	0	1067600	1675500	1890000
TRINITY_DN18331_c2_g5::TRINITY_DN18331_c2_g5_i1::g.98900::m.98900	0	0	0	0	0	0	0	0	0	0	0	0	2080500	3913200	1420300
TRINITY_DN13546_c0_g1::TRINITY_DN13546_c0_g1_i3::g.25193::m.25193	0	0	0	0	0	0	0	0	0	0	0	0	3198100	3463300	739580
TRINITY_DN19711_c5_g2::TRINITY_DN19711_c5_g2_i2::g.122643::m.122643	0	0	0	0	758750	0	297370	516370	0	0	0	0	1720000	2021500	2071600
TRINITY_DN15444_c2_g1::TRINITY_DN15444_c2_g1_i7::g.52052::m.52052	0	0	0	0	0	0	0	0	0	0	0	0	1309700	3127600	2866400
TRINITY_DN18083_c4_g1::TRINITY_DN18083_c4_g1_i1::g.94854::m.94854	0	0	179680	135860	0	0	0	1336300	0	0	0	0	668200	3274000	1701200
TRINITY_DN15930_c2_g2::TRINITY_DN15930_c2_g2_i5::g.59203::m.59203	33491	0	35967	92702	0	0	0	61556	245960	0	0	0	1309300	2681200	2805100
TRINITY_DN19332_c1_g1::TRINITY_DN19332_c1_g1_i1::g.116126::m.1161	0	0	0	0	0	0	0	0	0	0	0	0	2050400	2538700	2645300
TRINITY_DN13790_c1_g1::TRINITY_DN13790_c1_g1_i1::g.28245::m.28245	0	0	0	0	0	0	0	0	0	0	0	0	2632000	3095700	1496300
TRINITY_DN9744_c0_g1::TRINITY_DN9744_c0_g1_i1::g.3792::m.3792	282410	77516	287770	171050	158710	0	167640	0	1115400	393640	2388300	963930	343290	664310	174010
TRINITY_DN13494_c0_g2::TRINITY_DN13494_c0_g2_i2::g.24524::m.24524	0	0	0	0	0	0	0	0	0	0	0	0	2080600	0	5105700
TRINITY_DN17631_c3_g6::TRINITY_DN17631_c3_g6_i1::g.87349::m.87349	199360	31230	66733	167280	705500	0	1137800	617530	227700	678670	0	0	1191600	523760	1610000
TRINITY_DN12268_c0_g1::TRINITY_DN12268_c0_g1_i1::g.11491::m.11491	0	0	0	0	0	0	0	0	0	0	0	0	1071500	2832300	3248000
TRINITY_DN19388_c2_g2::TRINITY_DN19388_c2_g2_i2::g.117003::m.117003	483650	0	580190	436760	0	0	0	713770	0	0	2049200	1835400	310910	381720	320970

TRINITY_DN13433_c0_g1::TRINITY_DN13433_c0_g1_i4::g.23725::m.23725	0	0	0	0	0	0	0	0	0	0	0	0	2550400	2296200	2263100
TRINITY_DN17014_c1_g3::TRINITY_DN17014_c1_g3_i2::g.77015::m.77015	112740	0	51527	0	0	0	0	0	0	183600	0	0	2915200	2244000	1598000
TRINITY_DN13342_c3_g2::TRINITY_DN13342_c3_g2_i4::g.22568::m.22568	0	0	0	0	0	0	0	0	0	0	0	0	1506500	3180400	2380300
TRINITY_DN15981_c2_g1::TRINITY_DN15981_c2_g1_i5::g.59872::m.59872	149410	39109	210550	236610	220450	0	0	0	0	0	0	660990	1457400	1680800	2391800
TRINITY_DN18987_c2_g1::TRINITY_DN18987_c2_g1_i1::g.110056::m.110056	269410	0	298980	372160	608810	0	0	554650	1502900	0	1510100	1865400	0	0	61121
TRINITY_DN12349_c8_g2::TRINITY_DN12349_c8_g2_i1::g.12068::m.12068	881510	432170	1132500	1280300	523920	134110	182700	0	1909800	0	0	0	560620	0	0
TRINITY_DN13325_c1_g1::TRINITY_DN13325_c1_g1_i1::g.22310::m.22310	0	0	0	0	0	0	0	0	0	0	0	0	2147700	2607200	2245100
TRINITY_DN15794_c0_g2::TRINITY_DN15794_c0_g2_i7::g.57165::m.57165	0	0	0	0	0	0	0	0	0	0	0	0	1707700	2687900	2598100
TRINITY_DN16454_c1_g1::TRINITY_DN16454_c1_g1_i2::g.67727::m.67727	398190	0	0	106140	0	0	0	0	0	657790	0	0	3039000	1383000	1391600
TRINITY_DN12161_c0_g1::TRINITY_DN12161_c0_g1_i4::g.10883::m.10883	0	0	0	0	0	0	0	0	0	0	0	0	2539200	2648800	1756800
TRINITY_DN16552_c0_g2::TRINITY_DN16552_c0_g2_i1::g.69236::m.69236	0	0	0	0	0	0	0	0	0	0	0	0	2066200	2474900	2390800
TRINITY_DN13234_c0_g1::TRINITY_DN13234_c0_g1_i7::g.21346::m.21346	336690	135070	355650	292510	327480	0	0	135400	198320	0	0	0	1855500	2243300	1040800
TRINITY_DN16040_c0_g1::TRINITY_DN16040_c0_g1_i12::g.61056::m.61056	0	0	0	0	0	0	0	0	0	0	0	0	1583700	1709200	3591500
TRINITY_DN17716_c3_g1::TRINITY_DN17716_c3_g1_i5::g.88746::m.88746	0	0	0	0	0	0	0	82097	0	139230	227790	0	977530	4347300	1105700
TRINITY_DN14659_c0_g2::TRINITY_DN14659_c0_g2_i6::g.40081::m.40081	0	0	0	0	0	0	0	0	0	0	608440	0	1209300	1723000	3296700
TRINITY_DN8972_c0_g1::TRINITY_DN8972_c0_g1_i1::g.3000::m.3000	0	0	0	0	0	0	0	0	0	0	0	0	2067600	2476700	2276800
TRINITY_DN19468_c2_g5::TRINITY_DN19468_c2_g5_i1::g.118327::m.118327	91575	51672	163630	101740	0	0	175160	217630	0	167840	0	0	1785500	1960300	2087500
TRINITY_DN16932_c1_g2::TRINITY_DN16932_c1_g2_i8::g.75832::m.75832	542210	210090	545950	449750	0	249550	0	0	0	618500	1491800	1525700	521800	597080	0
TRINITY_DN15439_c1_g1::TRINITY_DN15439_c1_g1_i4::g.51919::m.51919	344710	0	322270	0	67924	126320	68309	0	245950	0	0	362400	1658600	687350	2866700
TRINITY_DN19589_c2_g2::TRINITY_DN19589_c2_g2_i4::g.120310::m.120310	0	0	0	0	0	0	0	0	279880	0	377860	370060	782000	2704000	2161800
TRINITY_DN17548_c3_g2::TRINITY_DN17548_c3_g2_i2::g.85798::m.85798	0	0	0	0	0	0	0	0	0	0	0	0	2320600	2476500	1850700

TRINITY_DN12116_c0_g2::TRINITY_DN12116_c0_g2_i1::g.10617::m.10617	155830	46087	99852	174390	129190	0	0	0	0	0	0	0	2054600	1764500	2208600
TRINITY_DN16328_c4_g1::TRINITY_DN16328_c4_g1_i2::g.65854::m.65854	0	0	0	0	0	0	0	0	0	0	0	0	2308800	2000100	2293000
TRINITY_DN19061_c2_g1::TRINITY_DN19061_c2_g1_i2::g.111195::m.1111	0	0	0	0	0	0	0	0	0	0	0	0	1689900	2792100	2118800
TRINITY_DN17042_c1_g2::TRINITY_DN17042_c1_g2_i2::g.77496::m.77496	565280	173690	540460	612150	0	0	0	199640	0	0	0	170890	702810	1492400	2131100
TRINITY_DN16369_c2_g3::TRINITY_DN16369_c2_g3_i1::g.66518::m.66518	0	0	0	0	140710	0	0	181500	544080	368970	0	0	885490	1223500	3243300
TRINITY_DN17384_c3_g1::TRINITY_DN17384_c3_g1_i3::g.82818::m.82818	62270	0	0	76410	0	0	0	0	164450	0	363140	168240	969520	1564600	3194900
TRINITY_DN18568_c1_g1::TRINITY_DN18568_c1_g1_i19::g.102809::m.102809	56390	0	107960	86479	160410	62429	0	134510	0	187450	536670	0	1995600	1766600	1438900
TRINITY_DN19159_c0_g2::TRINITY_DN19159_c0_g2_i3::g.113047::m.113047	172930	48104	177810	120240	753240	0	836890	537570	0	896230	1471200	1061700	0	0	443080
TRINITY_DN19261_c3_g1::TRINITY_DN19261_c3_g1_i6::g.113934::m.113934	0	0	0	0	0	0	0	0	0	0	0	0	1694000	2535600	2288700
TRINITY_DN13280_c0_g2::TRINITY_DN13280_c0_g2_i2::g.21976::m.21976	456400	138390	227360	295370	211670	403780	0	0	0	0	0	734630	979460	1737300	1328700
TRINITY_DN18061_c2_g1::TRINITY_DN18061_c2_g1_i8::g.94553::m.94553	0	0	0	0	0	0	0	0	78466	0	0	0	130370	2659500	3641100
TRINITY_DN12991_c0_g2::TRINITY_DN12991_c0_g2_i1::g.18234::m.18234	0	0	0	0	0	0	0	0	0	0	0	0	1573600	3011200	1914600
TRINITY_DN19158_c0_g2::TRINITY_DN19158_c0_g2_i3::g.112794::m.112794	0	0	0	0	0	0	0	0	0	0	0	0	2089300	2314000	2062700
TRINITY_DN11523_c0_g3::TRINITY_DN11523_c0_g3_i2::g.7748::m.7748	0	0	0	0	0	0	0	0	0	0	0	0	1348500	1849600	3260400
TRINITY_DN14938_c0_g1::TRINITY_DN14938_c0_g1_i5::g.44776::m.44776	0	0	0	0	0	0	0	0	0	0	0	0	1869700	2836900	1748000
TRINITY_DN17566_c1_g1::TRINITY_DN17566_c1_g1_i8::g.86112::m.86112	0	0	0	0	0	0	0	0	0	0	0	0	1604600	2494700	2340300
TRINITY_DN19918_c3_g1::TRINITY_DN19918_c3_g1_i11::g.126682::m.126682	0	0	0	0	0	0	0	0	0	0	0	613630	1524300	2583500	1689000
TRINITY_DN12927_c2_g2::TRINITY_DN12927_c2_g2_i9::g.17583::m.17583	0	0	0	0	0	0	0	0	0	0	0	0	1286000	1753000	3354300
TRINITY_DN16523_c1_g3::TRINITY_DN16523_c1_g3_i4::g.69129::m.69129	0	0	0	0	0	0	0	0	0	0	0	0	1688900	2541900	2155900
TRINITY_DN15434_c1_g2::TRINITY_DN15434_c1_g2_i2::g.51814::m.51814	0	0	0	0	0	0	0	310360	0	0	0	0	2580300	2923000	567750

TRINITY_DN18883_c1_g1::TRINITY_DN18883_c1_g1_i17::g.108283::m.108283	0	0	0	0	0	0	0	0	0	0	0	0	2160900	2331000	1845100
TRINITY_DN15951_c5_g2::TRINITY_DN15951_c5_g2_i3::g.59457::m.59457	354700	80486	516010	401780	329830	0	296540	283020	559770	432380	1047200	1010400	0	179040	821480
TRINITY_DN17564_c2_g2::TRINITY_DN17564_c2_g2_i9::g.86086::m.86086	220870	53040	246510	82179	293070	0	417470	646480	0	568160	1128400	827240	812550	617860	390690
TRINITY_DN15444_c2_g1::TRINITY_DN15444_c2_g1_i2::g.52034::m.52034	0	0	0	0	0	0	0	0	0	0	0	0	1888300	1966000	2441400
TRINITY_DN19153_c1_g1::TRINITY_DN19153_c1_g1_i1::g.112868::m.1128	0	0	0	0	0	0	0	0	0	0	0	0	1389500	3321900	1576800
TRINITY_DN18739_c0_g2::TRINITY_DN18739_c0_g2_i10::g.105638::m.105638	0	0	0	0	0	0	0	0	0	0	0	0	3833500	1297100	1148300
TRINITY_DN17091_c0_g2::TRINITY_DN17091_c0_g2_i7::g.78224::m.78224	0	0	0	0	0	0	0	0	0	0	0	0	639580	2902800	2731300
TRINITY_DN16872_c0_g1::TRINITY_DN16872_c0_g1_i9::g.74807::m.74807	0	0	0	0	0	0	0	0	0	0	0	0	1670000	3196200	1398600
TRINITY_DN13841_c4_g1::TRINITY_DN13841_c4_g1_i2::g.28420::m.28420	0	0	0	0	0	0	0	0	0	0	0	0	2282000	2229000	1744800
TRINITY_DN11991_c0_g1::TRINITY_DN11991_c0_g1_i1::g.9823::m.9823	0	0	0	0	0	0	0	0	0	0	0	0	1919900	2674400	1657000
TRINITY_DN15464_c0_g1::TRINITY_DN15464_c0_g1_i3::g.52265::m.52265	48480	0	0	0	0	0	235130	196910	0	191070	0	0	1297200	2566900	1704100
TRINITY_DN11351_c0_g4::TRINITY_DN11351_c0_g4_i3::g.7095::m.7095	317280	107560	333230	317010	346910	180640	366080	630260	717420	0	966240	871090	504430	0	567230
TRINITY_DN19612_c1_g2::TRINITY_DN19612_c1_g2_i9::g.120822::m.120822	0	0	0	0	0	0	0	0	0	0	0	0	1808400	2176200	2240200
TRINITY_DN10989_c0_g1::TRINITY_DN10989_c0_g1_i3::g.6012::m.6012	0	0	0	0	0	0	0	0	0	0	0	0	821460	1582100	3810800
TRINITY_DN12636_c0_g1::TRINITY_DN12636_c0_g1_i3::g.14427::m.14427	258500	31614	46447	263250	345010	159530	364650	542880	1250600	462230	1087600	1019500	128350	170150	70961
TRINITY_DN15811_c0_g5::TRINITY_DN15811_c0_g5_i2::g.57331::m.57331	0	0	0	0	0	154830	0	0	0	0	0	0	2394200	1505000	2144800
TRINITY_DN19982_c2_g1::TRINITY_DN19982_c2_g1_i8::g.127226::m.127226	218460	103160	284320	239850	0	0	0	0	0	394880	888140	1880200	362960	454080	1359200
TRINITY_DN18355_c0_g1::TRINITY_DN18355_c0_g1_i6::g.99167::m.99167	0	0	0	0	0	0	1663600	0	0	0	0	0	0	165210	4320900
TRINITY_DN15264_c2_g1::TRINITY_DN15264_c2_g1_i9::g.49352::m.49352	0	0	585210	0	0	0	0	0	0	0	0	0	1538800	2051000	1944500
TRINITY_DN12375_c3_g5::TRINITY_DN12375_c3_g5_i1::g.12365::m.12365	0	0	0	0	0	0	0	0	0	0	0	0	1717600	2130500	2265900

TRINITY_DN17383_c0_g1::TRINITY_DN17383_c0_g1_i3::g.82754::m.82754	0	0	0	0	0	56124	0	0	0	0	0	3336800	1516500	828900	366190
TRINITY_DN18266_c2_g1::TRINITY_DN18266_c2_g1_i1::g.97903::m.97903	0	0	0	0	0	0	0	0	0	0	0	0	1993000	1902200	2200100
TRINITY_DN15771_c0_g1::TRINITY_DN15771_c0_g1_i5::g.56845::m.56845	0	0	132970	0	0	0	0	0	0	0	0	0	1401500	3075400	1465200
TRINITY_DN15425_c0_g1::TRINITY_DN15425_c0_g1_i1::g.51653::m.51653	327870	53572	397240	356680	202650	506790	633850	0	434170	1263100	591620	745450	0	187610	353980
TRINITY_DN19779_c3_g1::TRINITY_DN19779_c3_g1_i9::g.123558::m.123558	0	0	0	0	0	0	0	0	0	0	0	0	841940	2253900	2956300
TRINITY_DN17373_c0_g1::TRINITY_DN17373_c0_g1_i1::g.82647::m.82647	0	0	0	0	0	0	0	0	0	0	0	0	1062000	3014100	1974200
TRINITY_DN17897_c2_g2::TRINITY_DN17897_c2_g2_i2::g.91535::m.91535	0	0	0	0	0	0	0	0	0	0	0	0	1891300	2169800	1983000
TRINITY_DN17861_c1_g1::TRINITY_DN17861_c1_g1_i1::g.90803::m.90803	0	0	0	0	0	0	0	0	0	196610	0	0	2331600	3484900	0
TRINITY_DN15475_c0_g1::TRINITY_DN15475_c0_g1_i2::g.52448::m.52448	0	0	0	0	0	0	0	0	0	0	0	0	1755300	1942300	2314800
TRINITY_DN17503_c0_g1::TRINITY_DN17503_c0_g1_i2::g.84892::m.84892	0	0	0	0	0	0	0	0	0	0	0	0	1245000	2458400	2288900
TRINITY_DN14545_c0_g2::TRINITY_DN14545_c0_g2_i6::g.38726::m.38726	0	0	0	0	0	0	0	0	0	0	0	0	1566200	1846700	2547400
TRINITY_DN12477_c0_g1::TRINITY_DN12477_c0_g1_i2::g.13209::m.13209	124400	0	113070	71411	0	0	154850	0	0	0	290670	125080	678100	1862600	2496700
TRINITY_DN18895_c1_g2::TRINITY_DN18895_c1_g2_i8::g.108488::m.108488	439760	177130	555390	380470	607610	285820	0	0	919530	739860	1339700	0	423990	0	0
TRINITY_DN14210_c0_g1::TRINITY_DN14210_c0_g1_i5::g.33918::m.33918	876650	340150	1073200	934410	0	0	0	0	577390	0	784410	815000	0	441530	0
TRINITY_DN18268_c0_g1::TRINITY_DN18268_c0_g1_i8::g.98068::m.98068	0	0	0	0	0	0	86119	168360	0	0	0	0	1206300	1726500	2640000
TRINITY_DN16248_c0_g1::TRINITY_DN16248_c0_g1_i2::g.64527::m.64527	0	0	0	212110	0	0	316560	709270	0	1022600	0	2699900	295270	294230	275810
TRINITY_DN16306_c1_g2::TRINITY_DN16306_c1_g2_i2::g.65481::m.65481	0	0	0	0	0	0	0	304000	0	0	2415000	2525100	580130	0	0
TRINITY_DN19332_c2_g5::TRINITY_DN19332_c2_g5_i3::g.116136::m.116136	640840	222490	878330	673100	618930	0	780960	0	0	378540	0	1629400	0	0	0
TRINITY_DN19330_c0_g3::TRINITY_DN19330_c0_g3_i6::g.116162::m.116162	0	0	0	0	661300	0	0	0	0	1687400	3444000	0	0	0	0

TRINITY_DN19198_c2_g2::TRINITY_DN19198_c2_g2_i7::g.112135::m.112135	0	0	0	0	0	0	0	0	0	0	0	0	1932800	1485900	2369600
TRINITY_DN18055_c0_g3::TRINITY_DN18055_c0_g3_i2::g.94441::m.94441	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5775500
TRINITY_DN19902_c1_g2::TRINITY_DN19902_c1_g2_i1::g.125828::m.125828	0	0	0	0	0	0	0	0	0	0	0	0	1934100	1889400	1931900
TRINITY_DN16483_c1_g1::TRINITY_DN16483_c1_g1_i8::g.68282::m.68282	0	0	0	0	0	0	0	0	0	0	0	0	1644400	2408500	1692900
TRINITY_DN13316_c0_g1::TRINITY_DN13316_c0_g1_i4::g.22236::m.22236	0	0	0	29575	0	0	0	0	0	0	0	406230	1848600	2380900	1062500
TRINITY_DN14260_c1_g1::TRINITY_DN14260_c1_g1_i4::g.34485::m.34485	437460	165750	615280	524070	669080	0	216460	724160	378870	0	982130	0	1002900	0	0
TRINITY_DN14547_c0_g1::TRINITY_DN14547_c0_g1_i3::g.38055::m.38055	0	0	0	0	0	0	0	0	0	0	0	0	1298100	2591200	1818900
TRINITY_DN17557_c0_g1::TRINITY_DN17557_c0_g1_i2::g.85865::m.85865	0	0	0	0	0	0	0	0	0	0	0	0	108260	3433300	2162600
TRINITY_DN14469_c0_g2::TRINITY_DN14469_c0_g2_i3::g.37807::m.37807	0	0	0	0	0	80722	232900	0	0	0	478040	0	1452700	1608500	1822300
TRINITY_DN13571_c3_g1::TRINITY_DN13571_c3_g1_i9::g.25607::m.25607	254780	0	0	178230	0	0	0	0	323990	0	582260	0	1707400	1424200	1193900
TRINITY_DN15222_c4_g2::TRINITY_DN15222_c4_g2_i2::g.48684::m.48684	0	0	0	0	0	0	0	0	0	0	0	0	1191300	2360700	2104100
TRINITY_DN14937_c1_g1::TRINITY_DN14937_c1_g1_i10::g.44580::m.44580	0	0	0	0	415490	0	487950	328380	1190800	0	1652600	1567000	0	0	0
TRINITY_DN11539_c0_g1::TRINITY_DN11539_c0_g1_i5::g.7794::m.7794	0	0	0	0	0	0	0	269970	0	0	0	0	1373900	2324700	1645800
TRINITY_DN15625_c0_g3::TRINITY_DN15625_c0_g3_i1::g.54608::m.54608	0	0	0	0	0	37764	87303	0	0	0	0	0	324600	2118900	3040600
TRINITY_DN17623_c4_g3::TRINITY_DN17623_c4_g3_i4::g.87434::m.87434	0	0	1066100	0	0	0	0	0	0	0	0	0	432950	2258700	1847800
TRINITY_DN19001_c1_g1::TRINITY_DN19001_c1_g1_i22::g.110256::m.110256	281210	134040	429750	350280	0	712800	0	0	569940	0	1238900	1651800	0	0	229570
TRINITY_DN14942_c2_g1::TRINITY_DN14942_c2_g1_i4::g.44640::m.44640	0	0	0	0	0	0	0	0	0	0	0	0	1766000	1855200	1956500
TRINITY_DN14097_c2_g2::TRINITY_DN14097_c2_g2_i1::g.31570::m.31570	0	0	0	0	0	0	82789	0	0	0	0	0	1468900	2287200	1735700
TRINITY_DN19080_c0_g1::TRINITY_DN19080_c0_g1_i5::g.111810::m.111810	265490	38057	288380	110130	0	125880	0	0	0	0	179930	677830	1918500	1212900	749600
TRINITY_DN18479_c0_g5::TRINITY_DN18479_c0_g5_i1::g.100968::m.100968	0	0	0	0	0	0	0	0	0	0	0	0	2089100	2342700	1127200

TRINITY_DN17219_c0_g1::TRINITY_DN17219_c0_g1_i4::g.80391::m.80391	0	0	0	0	0	0	0	0	0	0	0	0	1256100	2599100	1702600
TRINITY_DN19330_c0_g1::TRINITY_DN19330_c0_g1_i8::g.116161::m.116161	0	0	0	0	0	0	0	0	425960	0	0	0	1500800	1072600	2553500
TRINITY_DN13211_c0_g1::TRINITY_DN13211_c0_g1_i3::g.21098::m.21098	0	0	0	0	0	0	0	0	0	0	0	0	3719400	477910	1350800
TRINITY_DN13228_c1_g1::TRINITY_DN13228_c1_g1_i1::g.21382::m.21382	629550	63393	653380	330830	177800	107070	625400	184760	0	0	0	1483100	0	669670	603760
TRINITY_DN19095_c0_g1::TRINITY_DN19095_c0_g1_i1::g.111856::m.111856	204660	0	235190	163860	0	0	0	0	0	0	0	0	1182400	2154300	1563600
TRINITY_DN12846_c1_g3::TRINITY_DN12846_c1_g3_i2::g.16059::m.16059	57680	0	59420	0	376840	219730	587690	487330	153290	144130	755880	858090	903470	899600	0
TRINITY_DN16616_c1_g1::TRINITY_DN16616_c1_g1_i2::g.70640::m.70640	0	0	0	0	1347800	0	1727600	0	0	0	595470	560570	681530	320770	265180
TRINITY_DN17302_c1_g3::TRINITY_DN17302_c1_g3_i1::g.81624::m.81624	0	0	0	0	0	0	0	0	0	0	0	0	72725	0	5380600
TRINITY_DN12723_c0_g1::TRINITY_DN12723_c0_g1_i2::g.15224::m.15224	0	0	0	0	0	0	0	0	131260	0	280010	0	1018400	1358600	2660600
TRINITY_DN17461_c1_g1::TRINITY_DN17461_c1_g1_i12::g.84192::m.8419	0	0	0	0	0	0	0	0	0	0	0	0	167530	5141000	139390
TRINITY_DN17237_c2_g3::TRINITY_DN17237_c2_g3_i7::g.80360::m.80360	0	0	0	0	0	0	0	0	0	0	0	0	1343700	1601100	2488000
TRINITY_DN12529_c0_g1::TRINITY_DN12529_c0_g1_i3::g.13512::m.13512	121260	25410	0	62957	94745	0	275020	0	161010	0	1074100	447860	491780	1317600	1313400
TRINITY_DN12993_c1_g1::TRINITY_DN12993_c1_g1_i9::g.18389::m.18389	335240	104020	397360	296830	267150	0	438880	377840	0	470750	299480	1458100	0	0	921670
TRINITY_DN18316_c4_g8::TRINITY_DN18316_c4_g8_i2::g.98671::m.98671	0	66366	119290	0	0	0	0	0	0	0	0	0	1557700	2679300	917770
TRINITY_DN14932_c2_g1::TRINITY_DN14932_c2_g1_i5::g.44480::m.44480	0	0	0	0	0	0	717690	0	1909100	0	0	2701800	0	0	0
TRINITY_DN18395_c1_g2::TRINITY_DN18395_c1_g2_i5::g.99070::m.99070	219850	0	373190	269670	131880	155660	498810	372270	0	297690	0	2318200	0	0	685780
TRINITY_DN12675_c1_g1::TRINITY_DN12675_c1_g1_i2::g.14909::m.14909	0	0	0	0	65023	0	0	78676	0	0	223610	0	1638800	1556800	1748800
TRINITY_DN18566_c1_g3::TRINITY_DN18566_c1_g3_i2::g.102668::m.102668	0	0	0	0	0	0	0	0	0	0	0	0	1220300	1847300	2201000
TRINITY_DN10355_c0_g1::TRINITY_DN10355_c0_g1_i2::g.4690::m.4690	36072	0	0	0	0	0	0	0	0	0	0	0	2494900	2400100	335220
TRINITY_DN13432_c1_g1::TRINITY_DN13432_c1_g1_i19::g.23847::m.23847	67604	0	86901	49367	0	0	255860	207870	214620	436490	0	211050	1396100	1346300	988900
TRINITY_DN14200_c0_g1::TRINITY_DN14200_c0_g1_i2::g.33523::m.33523	57074	0	74932	51016	0	0	0	0	403960	0	583590	380460	1206000	791620	1705500

TRINITY_DN12445_c0_g2::TRINITY_DN12445_c0_g2_i13::g.12955::m.12955	0	0	0	0	183370	0	72654	0	0	207350	262700	0	1535800	1424600	1550300
TRINITY_DN12195_c0_g1::TRINITY_DN12195_c0_g1_i1::g.10552::m.10552	352280	136210	350770	377760	0	0	0	0	0	0	416640	0	1068300	1228500	1305600
TRINITY_DN13264_c3_g1::TRINITY_DN13264_c3_g1_i4::g.21666::m.21666	21673	79934	0	0	197180	0	196290	0	0	0	0	0	1258700	1578200	1902500
TRINITY_DN16140_c1_g1::TRINITY_DN16140_c1_g1_i18::g.63031::m.6303	0	0	0	0	0	0	0	0	273790	0	691410	787380	1242700	1050000	1187700
TRINITY_DN18120_c2_g1::TRINITY_DN18120_c2_g1_i8::g.95450::m.95450	273460	71425	273750	399270	0	74050	0	0	0	0	0	1145900	1396600	1297000	273610
TRINITY_DN19263_c0_g1::TRINITY_DN19263_c0_g1_i2::g.114802::m.114802	63955	29872	511900	0	126480	0	0	0	249420	181220	1271500	1518800	124340	0	1111000
TRINITY_DN16243_c0_g1::TRINITY_DN16243_c0_g1_i2::g.64445::m.64445	0	0	0	0	0	0	0	0	0	0	0	0	2413300	1999500	758140
TRINITY_DN13812_c2_g1::TRINITY_DN13812_c2_g1_i1::g.28623::m.28623	0	0	0	0	0	0	0	0	0	0	0	0	1600700	2033000	1527400
TRINITY_DN37045_c0_g1::TRINITY_DN37045_c0_g1_i1::g.131013::m.131013	116550	51755	148840	0	446560	87982	252400	207150	617850	0	2181200	928270	118200	0	0
TRINITY_DN17851_c1_g3::TRINITY_DN17851_c1_g3_i2::g.90156::m.90156	0	0	0	0	0	0	0	0	0	0	0	0	1580600	1596200	1956000
TRINITY_DN14011_c0_g1::TRINITY_DN14011_c0_g1_i1::g.31283::m.31283	0	0	0	0	0	0	0	0	0	0	0	0	730180	2033000	2356200
TRINITY_DN11978_c1_g4::TRINITY_DN11978_c1_g4_i1::g.9533::m.9533	0	0	0	0	0	0	0	0	0	0	0	0	2912600	0	2194300
TRINITY_DN17242_c0_g2::TRINITY_DN17242_c0_g2_i1::g.80718::m.80718	618630	195420	559940	536990	0	202300	0	796180	0	916670	443680	834830	0	0	0
TRINITY_DN16272_c1_g2::TRINITY_DN16272_c1_g2_i3::g.64808::m.64808	66777	0	33057	453650	168790	75495	142080	192660	466530	174890	355190	565990	955900	537450	882770
TRINITY_DN12654_c0_g3::TRINITY_DN12654_c0_g3_i5::g.14722::m.14722	60625	0	71095	0	347420	0	226920	85347	0	560740	1221700	0	986010	588490	918320
TRINITY_DN13334_c3_g1::TRINITY_DN13334_c3_g1_i2::g.22908::m.22908	0	0	0	0	0	0	0	0	2171600	0	2889200	0	0	0	0
TRINITY_DN16447_c0_g1::TRINITY_DN16447_c0_g1_i1::g.67047::m.67047	0	0	0	0	0	0	0	0	0	0	0	0	2225800	0	2820300
TRINITY_DN15955_c0_g1::TRINITY_DN15955_c0_g1_i1::g.59530::m.59530	0	0	0	0	0	0	0	0	0	0	0	0	452530	1987300	2580000
TRINITY_DN19579_c1_g3::TRINITY_DN19579_c1_g3_i1::g.120400::m.120400	0	0	0	0	0	0	0	0	0	0	0	0	1847900	1535700	1627000
TRINITY_DN17207_c1_g1::TRINITY_DN17207_c1_g1_i5::g.80226::m.80226	0	0	184980	0	605880	157190	703130	474110	1202200	0	0	1404500	67610	184970	0
TRINITY_DN17881_c0_g1::TRINITY_DN17881_c0_g1_i3::g.91227::m.91227	91585	66727	181340	158970	0	133950	428900	0	713290	0	2510500	683990	0	0	0

TRINITY_DN16367_c2_g1::TRINITY_DN16367_c2_g1_i2::g.66527::m.66527	86135	0	95009	110780	374550	81641	251050	546220	307730	0	0	227600	727310	1100100	1060600
TRINITY_DN12454_c0_g1::TRINITY_DN12454_c0_g1_i1::g.12984::m.12984	381700	150220	571660	403740	556190	0	620820	0	367680	0	0	931850	733730	245810	0
TRINITY_DN18113_c1_g2::TRINITY_DN18113_c1_g2_i2::g.95380::m.95380	0	0	0	0	0	0	0	0	0	0	259680	0	1307800	1850700	1538000
TRINITY_DN13825_c0_g1::TRINITY_DN13825_c0_g1_i2::g.28846::m.28846	544630	200940	749300	323850	0	149220	0	0	0	0	545620	2440600	0	0	0
TRINITY_DN15635_c1_g1::TRINITY_DN15635_c1_g1_i2::g.54767::m.54767	0	0	0	0	0	0	0	0	0	0	0	0	911550	2474800	1561500
TRINITY_DN18171_c1_g1::TRINITY_DN18171_c1_g1_i5::g.96291::m.96291	54913	29219	0	0	434670	0	586440	92683	0	875540	714450	346710	374390	439850	988110
TRINITY_DN17183_c0_g2::TRINITY_DN17183_c0_g2_i5::g.79774::m.79774	588350	76011	513980	637710	0	0	0	0	0	0	1308500	1444400	0	357340	0
TRINITY_DN16005_c0_g3::TRINITY_DN16005_c0_g3_i6::g.60403::m.60403	46421	0	42201	45561	95051	0	0	0	0	0	0	0	1763100	1298000	1625800
TRINITY_DN13194_c5_g1::TRINITY_DN13194_c5_g1_i1::g.20972::m.20972	154760	61488	203590	174280	0	0	0	0	0	0	0	0	945360	924440	2450900
TRINITY_DN19141_c0_g1::TRINITY_DN19141_c0_g1_i8::g.112746::m.1127	0	0	0	0	130530	0	149410	0	0	0	0	0	1203000	2435000	991470
TRINITY_DN19587_c1_g2::TRINITY_DN19587_c1_g2_i1::g.120316::m.120316	422500	185290	507240	467650	0	0	501140	0	0	0	1255600	0	356320	457840	750530
TRINITY_DN14259_c5_g1::TRINITY_DN14259_c5_g1_i8::g.34656::m.34656	0	0	0	0	0	0	0	0	0	0	0	0	1859500	1758300	1284100
TRINITY_DN16231_c1_g1::TRINITY_DN16231_c1_g1_i4::g.64294::m.64294	0	0	0	0	0	105700	0	0	0	0	0	206480	165390	1679300	2743300
TRINITY_DN14338_c3_g2::TRINITY_DN14338_c3_g2_i1::g.35555::m.35555	0	0	0	0	0	60453	162030	0	224070	0	53376	0	1419500	1106500	1855400
TRINITY_DN19174_c1_g3::TRINITY_DN19174_c1_g3_i1::g.113399::m.1133	0	0	0	0	0	0	0	0	0	0	0	0	1499200	1758200	1623100
TRINITY_DN19841_c3_g2::TRINITY_DN19841_c3_g2_i9::g.124618::m.124618	116210	0	89118	71887	0	0	0	0	0	0	0	0	1130700	1731700	1737000
TRINITY_DN20035_c3_g1::TRINITY_DN20035_c3_g1_i3::g.128175::m.128175	61170	29170	0	16668	226260	66433	0	173580	0	0	1062300	922350	380750	1068400	815080
TRINITY_DN18498_c3_g4::TRINITY_DN18498_c3_g4_i4::g.101572::m.101572	0	0	0	0	0	0	0	0	0	0	0	0	1003600	1872500	1921400
TRINITY_DN17440_c0_g1::TRINITY_DN17440_c0_g1_i7::g.84097::m.84097	0	0	0	0	0	0	0	0	0	0	0	0	1462400	1827000	1501800
TRINITY_DN15779_c0_g2::TRINITY_DN15779_c0_g2_i1::g.57109::m.57109	0	0	0	0	0	0	0	0	0	0	493080	0	2155400	1142600	987880
TRINITY_DN18149_c0_g1::TRINITY_DN18149_c0_g1_i3::g.95908::m.95908	0	0	0	0	82676	107690	268390	313940	0	0	177510	681800	558340	408120	2179400

TRINITY_DN18366_c0_g2::TRINITY_DN18366_c0_g2_i3::g.99417::m.99417	0	0	0	0	0	0	0	0	0	0	0	0	1938100	1770700	1051200
TRINITY_DN16745_c0_g1::TRINITY_DN16745_c0_g1_i9::g.72756::m.72756	0	0	0	0	0	0	0	0	0	0	0	0	1397000	1385000	1965500
TRINITY_DN12226_c1_g1::TRINITY_DN12226_c1_g1_i9::g.11323::m.11323	0	0	0	0	0	0	0	0	0	0	0	0	1213300	1637800	1885400
TRINITY_DN16837_c0_g2::TRINITY_DN16837_c0_g2_i4::g.74272::m.74272	0	0	0	0	0	0	0	0	0	0	0	0	1394400	2233500	1101500
TRINITY_DN14860_c0_g2::TRINITY_DN14860_c0_g2_i3::g.43462::m.43462	0	0	0	0	0	0	0	0	0	0	0	0	1373100	1571700	1759400
TRINITY_DN19634_c0_g1::TRINITY_DN19634_c0_g1_i18::g.121436::m.121436	0	0	0	0	0	0	0	0	0	0	0	0	1172800	2173300	1358000
TRINITY_DN18967_c1_g1::TRINITY_DN18967_c1_g1_i1::g.109547::m.109547	0	0	0	0	0	0	0	0	0	0	0	0	2513900	1392600	785050
TRINITY_DN10328_c0_g1::TRINITY_DN10328_c0_g1_i1::g.4642::m.4642	320740	80231	271880	235500	419200	0	311490	0	0	0	1463600	1550200	0	0	0
TRINITY_DN12931_c0_g1::TRINITY_DN12931_c0_g1_i4::g.17462::m.17462	0	0	0	0	0	0	0	0	0	0	0	0	1404900	2243200	999720
TRINITY_DN15347_c2_g1::TRINITY_DN15347_c2_g1_i4::g.50637::m.50637	248620	134630	314210	262630	1245800	312280	0	1176800	0	0	0	0	460360	468890	0
TRINITY_DN18324_c2_g1::TRINITY_DN18324_c2_g1_i6::g.99024::m.99024	0	0	0	0	0	0	0	0	0	0	0	0	656530	1827700	2139200
TRINITY_DN15702_c0_g3::TRINITY_DN15702_c0_g3_i1::g.55933::m.55933	0	0	0	0	0	0	0	0	0	0	0	0	2157700	2065800	391570
TRINITY_DN11687_c0_g1::TRINITY_DN11687_c0_g1_i2::g.8407::m.8407	30701	0	83161	143070	1220000	0	0	909510	0	0	0	0	247800	1313000	663430
TRINITY_DN12590_c1_g3::TRINITY_DN12590_c1_g3_i2::g.13976::m.13976	0	0	0	0	0	0	0	0	0	0	0	0	0	3967100	643100
TRINITY_DN15601_c2_g1::TRINITY_DN15601_c2_g1_i1::g.52933::m.52933	0	125120	119890	0	1172500	0	0	1013100	0	0	0	0	982730	1195600	0
TRINITY_DN17527_c0_g3::TRINITY_DN17527_c0_g3_i1::g.85247::m.85247	0	0	0	0	0	0	0	0	0	0	0	0	863390	0	3742000
TRINITY_DN12826_c0_g1::TRINITY_DN12826_c0_g1_i1::g.16222::m.16222	80863	43061	112660	119860	1129100	148690	1096600	660010	0	114100	0	1099500	0	0	0
TRINITY_DN19082_c3_g1::TRINITY_DN19082_c3_g1_i2::g.111610::m.111610	0	0	0	0	0	0	0	0	0	0	0	0	1383000	1622000	1597300
TRINITY_DN19829_c1_g1::TRINITY_DN19829_c1_g1_i2::g.124633::m.124633	134370	726490	93370	226700	243080	145950	0	336640	510870	428290	0	846090	0	476590	429910
TRINITY_DN16466_c0_g3::TRINITY_DN16466_c0_g3_i1::g.67992::m.67992	274650	0	326150	203880	287570	144860	0	134100	0	0	545890	0	455480	918740	1303100

TRINITY_DN12480_c0_g2::TRINITY_DN12480_c0_g2_i1::g.13216::m.13216	0	0	0	0	0	0	0	0	0	0	0	0	1701300	1932300	949360
TRINITY_DN14710_c1_g4::TRINITY_DN14710_c1_g4_i3::g.41054::m.41054	0	0	0	0	0	0	0	0	0	0	0	0	987710	2177600	1388900
TRINITY_DN17564_c2_g2::TRINITY_DN17564_c2_g2_i5::g.86079::m.86079	0	0	0	0	0	0	0	0	0	0	0	0	867000	2285800	1395900
TRINITY_DN13661_c3_g4::TRINITY_DN13661_c3_g4_i1::g.26847::m.26847	142150	56673	164810	0	241640	0	0	202040	0	0	0	656010	780390	1359000	945100
TRINITY_DN12154_c0_g1::TRINITY_DN12154_c0_g1_i6::g.10864::m.10864	0	0	0	0	0	0	0	0	0	0	0	654840	1311900	1686500	873690
TRINITY_DN19326_c2_g1::TRINITY_DN19326_c2_g1_i5::g.116051::m.116051	83618	0	123430	86463	247670	0	314060	301540	379080	0	0	1339900	433390	639440	551620
TRINITY_DN19798_c2_g2::TRINITY_DN19798_c2_g2_i18::g.123759::m.123759	0	0	0	0	0	0	0	0	0	0	0	0	2811700	907930	766000
TRINITY_DN19717_c0_g1::TRINITY_DN19717_c0_g1_i2::g.122513::m.122513	0	0	0	0	0	0	0	0	0	0	0	0	605080	2993300	886540
TRINITY_DN17321_c2_g2::TRINITY_DN17321_c2_g2_i3::g.82053::m.82053	0	0	0	0	0	0	0	0	0	0	0	0	2277200	0	2205500
TRINITY_DN16262_c1_g2::TRINITY_DN16262_c1_g2_i1::g.64873::m.64873	0	0	0	0	0	0	101780	0	227170	0	0	0	1348400	1695000	1091000
TRINITY_DN17928_c2_g1::TRINITY_DN17928_c2_g1_i2::g.92278::m.92278	387460	0	480560	318350	0	0	0	586440	231480	0	832390	1623500	0	0	0
TRINITY_DN19464_c2_g1::TRINITY_DN19464_c2_g1_i8::g.118275::m.118275	0	0	0	0	0	0	0	0	0	0	0	0	1538200	1561300	1349400
TRINITY_DN18987_c4_g5::TRINITY_DN18987_c4_g5_i1::g.110067::m.110067	0	0	0	0	651410	0	0	0	0	0	0	2338800	0	1454600	0
TRINITY_DN18350_c0_g4::TRINITY_DN18350_c0_g4_i3::g.99164::m.99164	27829	0	0	32868	222530	264700	659590	0	835610	0	1405700	411360	0	316060	259730
TRINITY_DN18760_c9_g3::TRINITY_DN18760_c9_g3_i2::g.106074::m.106074	0	0	0	0	0	0	0	0	0	0	0	0	1389300	402820	2636300
TRINITY_DN17826_c0_g3::TRINITY_DN17826_c0_g3_i6::g.90229::m.90229	42119	18444	49965	54577	0	0	197340	0	0	0	2815600	0	0	607850	638850
TRINITY_DN19627_c1_g2::TRINITY_DN19627_c1_g2_i4::g.121159::m.121159	0	0	68811	0	0	0	0	0	0	0	0	0	2331800	891320	1131600
TRINITY_DN19425_c1_g1::TRINITY_DN19425_c1_g1_i1::g.117994::m.1179	0	0	0	0	0	0	0	0	0	0	0	0	487880	2014200	1904700
TRINITY_DN13200_c1_g3::TRINITY_DN13200_c1_g3_i1::g.20941::m.20941	165640	51739	193400	154190	284560	123830	419070	376670	623280	0	0	861120	551760	320960	260550

TRINITY_DN14744_c0_g1::TRINITY_DN14744_c0_g1_i1::g.41504::m.41504	0	0	0	0	0	0	0	0	0	0	0	0	1499400	1920400	963160
TRINITY_DN16218_c1_g2::TRINITY_DN16218_c1_g2_i6::g.64375::m.64375	0	0	0	0	0	0	0	0	0	0	0	0	1778000	1530200	1073400
TRINITY_DN19518_c0_g1::TRINITY_DN19518_c0_g1_i9::g.119130::m.1191	0	0	0	0	404370	0	421750	304590	0	753700	1323100	1172800	0	0	0
TRINITY_DN19578_c1_g1::TRINITY_DN19578_c1_g1_i2::g.120062::m.120062	0	0	0	0	0	0	0	0	0	0	0	0	1219500	1055700	2099500
TRINITY_DN15774_c2_g1::TRINITY_DN15774_c2_g1_i10::g.56953::m.56953	0	0	0	0	0	0	0	0	0	0	0	0	1524400	1583700	1253100
TRINITY_DN18433_c1_g4::TRINITY_DN18433_c1_g4_i1::g.100393::m.100393	0	0	0	0	0	0	0	386430	0	0	1655700	1515500	224210	288430	290280
TRINITY_DN12393_c0_g1::TRINITY_DN12393_c0_g1_i2::g.12483::m.12483	109740	34832	122350	178500	0	0	197220	0	0	0	0	620950	1022200	973640	1075300
TRINITY_DN14525_c1_g1::TRINITY_DN14525_c1_g1_i2::g.38384::m.38384	0	0	0	0	0	0	0	0	0	0	0	0	2543900	676450	1108300
TRINITY_DN19854_c2_g1::TRINITY_DN19854_c2_g1_i1::g.124554::m.124554	0	0	0	0	0	0	0	0	0	0	675250	565200	1256000	913370	915560
TRINITY_DN16619_c0_g1::TRINITY_DN16619_c0_g1_i7::g.70514::m.70514	0	0	0	0	0	0	0	159670	0	0	0	0	1108500	1322800	1732600
TRINITY_DN11003_c0_g3::TRINITY_DN11003_c0_g3_i1::g.6096::m.6096	0	0	0	64185	0	0	0	0	0	0	223710	0	1467500	2567600	0
TRINITY_DN12512_c0_g1::TRINITY_DN12512_c0_g1_i7::g.13451::m.13451	0	0	0	0	0	0	0	0	0	0	0	0	0	2372200	1944900
TRINITY_DN12275_c0_g1::TRINITY_DN12275_c0_g1_i2::g.11548::m.11548	0	0	0	0	0	0	0	0	0	0	0	0	1658500	2092400	564180
TRINITY_DN19290_c6_g1::TRINITY_DN19290_c6_g1_i1::g.115224::m.115224	0	0	0	0	0	0	0	0	0	0	0	0	1818000	1766900	728110
TRINITY_DN13198_c0_g2::TRINITY_DN13198_c0_g2_i2::g.20890::m.20890	0	0	0	0	256000	54011	0	107320	298540	692740	802300	463130	776260	472630	384990
TRINITY_DN16577_c0_g1::TRINITY_DN16577_c0_g1_i6::g.69863::m.69863	0	0	0	0	0	0	0	371080	295790	0	409380	704110	415720	855850	1248500
TRINITY_DN18300_c1_g1::TRINITY_DN18300_c1_g1_i6::g.96808::m.96808	0	0	0	0	0	0	0	0	0	0	368900	445070	645770	1311900	1524600
TRINITY_DN14139_c1_g3::TRINITY_DN14139_c1_g3_i2::g.32774::m.32774	0	0	0	0	0	0	0	0	0	0	0	0	831950	1053100	2404300
TRINITY_DN16286_c1_g1::TRINITY_DN16286_c1_g1_i5::g.65098::m.65098	0	0	0	0	0	0	0	0	0	0	0	0	1215700	818000	2253700
TRINITY_DN15944_c0_g3::TRINITY_DN15944_c0_g3_i1::g.58792::m.58792	0	0	0	0	0	0	0	0	0	0	0	0	2379700	0	1904500
TRINITY_DN14872_c2_g1::TRINITY_DN14872_c2_g1_i7::g.43673::m.43673	319180	0	196710	375620	138760	0	173620	156410	0	0	855020	1120400	390340	0	551480
TRINITY_DN14391_c2_g1::TRINITY_DN14391_c2_g1_i3::g.36277::m.36277	0	0	0	0	0	0	0	0	0	0	0	0	0	1963700	2290800

TRINITY_DN16836_c1_g1::TRINITY_DN16836_c1_g1_i8::g.74234::m.74234	0	0	0	0	0	0	0	0	0	0	0	0	1060100	1228900	1961900
TRINITY_DN17195_c1_g1::TRINITY_DN17195_c1_g1_i2::g.79932::m.79932	0	0	0	0	0	0	0	0	0	0	0	0	1658600	917270	1674500
TRINITY_DN15687_c3_g1::TRINITY_DN15687_c3_g1_i1::g.55726::m.55726	347520	56161	324350	135630	0	0	0	0	794000	394870	934550	987680	0	0	265240
TRINITY_DN19945_c1_g2::TRINITY_DN19945_c1_g2_i9::g.126623::m.126623	0	0	0	0	0	0	0	0	0	0	0	0	1198200	1543500	1495300
TRINITY_DN16932_c1_g1::TRINITY_DN16932_c1_g1_i8::g.75833::m.75833	53963	0	43098	59741	0	266110	607180	410590	965020	0	1359200	0	0	237530	229470
TRINITY_DN18681_c1_g1::TRINITY_DN18681_c1_g1_i1::g.104540::m.104540	208150	45106	268320	287540	198290	0	362750	162520	331520	227440	0	691540	396090	525000	516910
TRINITY_DN15903_c3_g2::TRINITY_DN15903_c3_g2_i1::g.58748::m.58748	0	0	0	0	0	0	0	0	0	0	0	0	531350	2395500	1282900
TRINITY_DN17228_c0_g2::TRINITY_DN17228_c0_g2_i3::g.80435::m.80435	0	0	0	0	0	0	0	0	0	0	0	0	1587300	1335100	1278700
TRINITY_DN16216_c0_g1::TRINITY_DN16216_c0_g1_i6::g.64074::m.64074	63669	0	110880	91518	0	0	0	0	0	0	0	0	1341100	1207100	1380000
TRINITY_DN18444_c3_g2::TRINITY_DN18444_c3_g2_i4::g.100535::m.100535	0	0	0	0	0	0	0	0	0	0	0	0	1482600	796110	1911100
TRINITY_DN12460_c3_g3::TRINITY_DN12460_c3_g3_i1::g.13367::m.13367	51820	0	76786	91073	198780	48710	263140	956740	826600	0	0	1460200	215420	0	0
TRINITY_DN13616_c0_g1::TRINITY_DN13616_c0_g1_i3::g.26276::m.26276	0	65229	272650	292540	0	0	0	274790	0	706890	1023600	1356800	187270	0	0
TRINITY_DN18246_c0_g1::TRINITY_DN18246_c0_g1_i3::g.96857::m.96857	0	0	0	0	0	0	0	0	0	0	0	406940	937420	1109700	1725100
TRINITY_DN19723_c2_g1::TRINITY_DN19723_c2_g1_i1::g.122855::m.122855	81721	0	0	0	0	0	0	0	0	0	0	478080	0	2069700	1548700
TRINITY_DN13123_c3_g2::TRINITY_DN13123_c3_g2_i7::g.20202::m.20202	254550	0	226070	145520	189330	0	587390	164450	391750	0	493640	1172700	0	552360	0
TRINITY_DN18029_c5_g2::TRINITY_DN18029_c5_g2_i4::g.93978::m.93978	0	0	0	0	0	0	0	0	0	0	0	0	1101400	2529500	535410
TRINITY_DN11846_c0_g3::TRINITY_DN11846_c0_g3_i2::g.9155::m.9155	0	0	0	0	0	0	0	0	0	0	0	0	1516400	1437100	1196500
TRINITY_DN14246_c2_g1::TRINITY_DN14246_c2_g1_i1::g.34260::m.34260	243790	0	202070	268590	0	0	234770	0	0	0	1064400	1365800	0	360710	394460
TRINITY_DN18272_c3_g3::TRINITY_DN18272_c3_g3_i3::g.97910::m.97910	190310	148450	458450	219840	0	0	316150	136390	448380	631390	908650	632700	0	0	0
TRINITY_DN16015_c1_g1::TRINITY_DN16015_c1_g1_i9::g.60551::m.60551	0	0	0	0	0	0	0	0	0	0	0	0	647700	1666800	1773600

TRINITY_DN17938_c1_g3::TRINITY_DN17938_c1_g3_i1::g.92335::m.92335	112040	0	104160	376540	0	182300	0	216120	0	0	1170600	1092200	258220	282960	284080
TRINITY_DN13436_c3_g2::TRINITY_DN13436_c3_g2_i1::g.23914::m.23914	0	0	0	0	0	0	0	0	0	0	0	0	1280600	1301000	1494300
TRINITY_DN19570_c1_g1::TRINITY_DN19570_c1_g1_i2::g.119952::m.119952	146070	41986	165950	82739	0	262470	403210	376410	1018400	0	0	1248300	103360	106380	115060
TRINITY_DN19058_c2_g1::TRINITY_DN19058_c2_g1_i7::g.111114::m.1111	0	100390	0	386270	393560	0	279320	350120	768660	697710	0	1088500	0	0	0
TRINITY_DN12832_c2_g7::TRINITY_DN12832_c2_g7_i2::g.16314::m.16314	0	0	0	0	0	0	0	0	0	0	0	0	1789700	225760	2044600
TRINITY_DN17735_c1_g1::TRINITY_DN17735_c1_g1_i1::g.89033::m.89033	156580	70539	180920	172910	358910	0	486740	0	0	0	894920	1733100	0	0	0
TRINITY_DN10960_c0_g1::TRINITY_DN10960_c0_g1_i2::g.5906::m.5906	0	0	0	0	0	0	0	0	0	0	0	0	4049500	0	0
TRINITY_DN13066_c0_g1::TRINITY_DN13066_c0_g1_i8::g.19396::m.19396	53962	0	75806	61844	0	0	0	0	0	0	0	991030	0	286970	2572900
TRINITY_DN12323_c0_g2::TRINITY_DN12323_c0_g2_i9::g.11969::m.11969	0	0	0	170010	239420	85692	349370	133320	0	0	0	744860	588830	440220	1287000
TRINITY_DN18848_c2_g2::TRINITY_DN18848_c2_g2_i6::g.107389::m.107389	0	0	0	0	0	79083	0	0	364000	0	484000	0	1596000	0	1486900
TRINITY_DN19795_c3_g1::TRINITY_DN19795_c3_g1_i8::g.123663::m.123663	0	0	0	0	0	0	0	0	0	0	0	0	494300	2906000	602940
TRINITY_DN17387_c1_g1::TRINITY_DN17387_c1_g1_i3::g.82928::m.82928	0	0	0	0	13286	0	0	0	0	0	0	0	1297200	1769200	905620
TRINITY_DN13841_c4_g1::TRINITY_DN13841_c4_g1_i7::g.28424::m.28424	0	0	0	541830	176460	77908	197890	0	673430	0	213200	1000900	295550	533500	267220
TRINITY_DN12837_c2_g2::TRINITY_DN12837_c2_g2_i2::g.16573::m.16573	0	0	676020	0	0	0	899350	0	0	0	0	2357900	0	0	0
TRINITY_DN16782_c2_g2::TRINITY_DN16782_c2_g2_i4::g.73167::m.73167	0	0	0	0	0	0	0	0	1099200	0	1382400	1446200	0	0	0
TRINITY_DN18666_c0_g1::TRINITY_DN18666_c0_g1_i7::g.104181::m.104181	0	0	0	0	0	0	0	0	0	0	0	0	1509300	1942200	474950
TRINITY_DN19251_c1_g2::TRINITY_DN19251_c1_g2_i27::g.114997::m.114997	0	0	0	0	0	0	0	170570	0	0	0	0	1475700	1535900	708100
TRINITY_DN13809_c0_g1::TRINITY_DN13809_c0_g1_i2::g.28550::m.28550	120910	0	111160	151810	319320	175850	0	783280	0	0	789870	0	418510	542210	467020
TRINITY_DN19468_c2_g2::TRINITY_DN19468_c2_g2_i2::g.118324::m.118324	0	0	0	0	0	0	0	0	350790	0	431350	533780	928420	1186100	446570
TRINITY_DN16852_c0_g1::TRINITY_DN16852_c0_g1_i5::g.74328::m.74328	85005	0	82292	101480	453410	0	340840	0	519050	513900	1196200	0	0	148600	429780

TRINITY_DN16408_c1_g1::TRINITY_DN16408_c1_g1_i1::g.67131::m.67131	0	0	0	0	0	0	0	0	0	0	125020	146190	1837400	924830	829830
TRINITY_DN11560_c0_g1::TRINITY_DN11560_c0_g1_i1::g.7865::m.7865	0	0	0	0	0	0	83456	0	0	0	0	274620	552700	368600	2540100
TRINITY_DN19263_c0_g1::TRINITY_DN19263_c0_g1_i6::g.114813::m.114813	0	0	0	0	330420	0	266450	379110	0	0	1317900	1514300	0	0	0
TRINITY_DN19101_c2_g2::TRINITY_DN19101_c2_g2_i4::g.111950::m.1119	0	0	0	0	0	0	0	0	3444300	0	0	0	153030	190420	0
TRINITY_DN19615_c0_g1::TRINITY_DN19615_c0_g1_i7::g.122149::m.122149	30664	0	94758	61513	154830	0	207550	166510	0	260380	0	472020	719990	585170	1027900
TRINITY_DN18862_c1_g2::TRINITY_DN18862_c1_g2_i1::g.107502::m.107502	0	0	0	0	0	0	0	0	0	0	0	157290	1999100	859790	762420
TRINITY_DN14909_c1_g5::TRINITY_DN14909_c1_g5_i1::g.44180::m.44180	0	0	0	0	0	0	0	0	0	0	0	0	1714400	949310	1098500
TRINITY_DN17699_c0_g2::TRINITY_DN17699_c0_g2_i2::g.88416::m.88416	44207	0	0	0	0	0	0	65060	0	0	0	0	888030	860660	1903700
TRINITY_DN11338_c0_g1::TRINITY_DN11338_c0_g1_i3::g.7037::m.7037	0	0	0	0	0	0	0	0	0	0	0	0	1937100	1568400	247090
TRINITY_DN17067_c2_g2::TRINITY_DN17067_c2_g2_i1::g.77907::m.77907	0	0	0	0	0	0	0	0	0	0	0	0	780960	1303500	1651300
TRINITY_DN17136_c2_g3::TRINITY_DN17136_c2_g3_i6::g.79230::m.79230	163360	72120	180230	121410	0	0	0	0	0	269590	0	494890	857320	1142700	431820
TRINITY_DN15761_c1_g2::TRINITY_DN15761_c1_g2_i2::g.56714::m.56714	0	0	0	0	0	0	0	0	0	0	0	0	711360	2269100	750350
TRINITY_DN18490_c1_g1::TRINITY_DN18490_c1_g1_i2::g.101177::m.1011	0	0	0	0	0	0	0	0	0	0	0	0	1079400	1231100	1416700
TRINITY_DN11842_c0_g1::TRINITY_DN11842_c0_g1_i5::g.9125::m.9125	0	27219	52976	37549	351410	0	0	359310	0	0	735520	568700	345680	842030	401090
TRINITY_DN14684_c2_g1::TRINITY_DN14684_c2_g1_i9::g.40676::m.40676	0	0	0	43417	0	0	212710	0	0	0	571630	377630	1438500	725330	329250
TRINITY_DN17978_c0_g1::TRINITY_DN17978_c0_g1_i12::g.93003::m.93003	0	0	0	0	0	0	0	0	0	0	0	0	0	1477000	2210100
TRINITY_DN14251_c1_g2::TRINITY_DN14251_c1_g2_i7::g.34536::m.34536	146570	77992	198390	221240	330990	0	296810	345680	0	0	0	1484400	0	0	571710
TRINITY_DN15354_c0_g1::TRINITY_DN15354_c0_g1_i1::g.50622::m.50622	0	0	0	0	0	0	0	0	0	0	0	0	984990	1513200	1141100
TRINITY_DN14014_c3_g1::TRINITY_DN14014_c3_g1_i1::g.31362::m.31362	0	0	0	0	0	0	0	0	403590	178690	556280	529430	1583000	220180	160610
TRINITY_DN14788_c0_g2::TRINITY_DN14788_c0_g2_i4::g.42257::m.42257	0	0	28627	0	0	0	0	62416	0	0	0	0	954430	1394300	1180400
TRINITY_DN14955_c4_g2::TRINITY_DN14955_c4_g2_i6::g.44900::m.44900	0	0	0	0	0	0	0	0	0	0	0	0	379660	1725600	1508800

TRINITY_DN10990_c0_g1::TRINITY_DN10990_c0_g1_i1::g.6030::m.6030	0	0	0	0	0	0	0	0	0	0	0	0	552820	2125300	935670
TRINITY_DN10710_c0_g1::TRINITY_DN10710_c0_g1_i1::g.5355::m.5355	0	0	0	0	262890	0	0	579480	0	501960	1059500	838170	0	0	346220
TRINITY_DN17874_c2_g4::TRINITY_DN17874_c2_g4_i3::g.91179::m.91179	0	0	0	0	0	0	0	0	0	0	0	0	1119400	1566000	901300
TRINITY_DN16487_c1_g6::TRINITY_DN16487_c1_g6_i1::g.68386::m.68386	0	0	0	0	0	0	0	0	0	0	0	0	3585000	0	0
TRINITY_DN19704_c0_g1::TRINITY_DN19704_c0_g1_i3::g.122553::m.122553	0	0	0	0	0	0	0	0	0	0	0	0	1138700	994160	1451300
TRINITY_DN15899_c1_g1::TRINITY_DN15899_c1_g1_i1::g.58501::m.58501	0	0	0	0	0	0	0	0	0	0	0	0	1073800	1189500	1318500
TRINITY_DN13705_c0_g2::TRINITY_DN13705_c0_g2_i4::g.27444::m.27444	0	0	0	49597	0	0	0	138980	0	0	0	0	1232500	1723900	429940
TRINITY_DN18855_c1_g1::TRINITY_DN18855_c1_g1_i19::g.107600::m.107600	0	0	0	0	0	0	0	0	0	0	0	0	2522300	662240	378520
TRINITY_DN17745_c1_g5::TRINITY_DN17745_c1_g5_i2::g.88501::m.88501	0	0	0	0	0	0	0	0	0	0	0	0	1013400	1340000	1205300
TRINITY_DN10578_c0_g1::TRINITY_DN10578_c0_g1_i5::g.5050::m.5050	0	0	0	0	0	0	0	0	0	0	0	0	1242000	1313300	994240
TRINITY_DN13945_c0_g1::TRINITY_DN13945_c0_g1_i2::g.30107::m.30107	0	0	33753	0	326830	0	397320	462190	0	96258	0	0	812240	931510	483750
TRINITY_DN19655_c2_g1::TRINITY_DN19655_c2_g1_i11::g.121761::m.121761	0	0	0	0	0	0	0	0	0	0	0	0	1565000	1972800	0
TRINITY_DN9772_c0_g1::TRINITY_DN9772_c0_g1_i1::g.3863::m.3863	0	0	0	0	0	0	0	0	0	0	0	0	1202400	1548800	784140
TRINITY_DN14598_c1_g3::TRINITY_DN14598_c1_g3_i4::g.39295::m.39295	128190	43515	144830	102020	248130	93444	181830	322780	636930	0	1027800	494450	0	0	100760
TRINITY_DN13423_c2_g1::TRINITY_DN13423_c2_g1_i2::g.23680::m.23680	0	0	0	0	0	0	0	0	0	0	0	0	984410	1365400	1169600
TRINITY_DN13846_c2_g2::TRINITY_DN13846_c2_g2_i2::g.28548::m.28548	0	0	0	0	166640	0	0	0	364190	0	429620	0	731420	801470	1024300
TRINITY_DN13334_c3_g4::TRINITY_DN13334_c3_g4_i1::g.22910::m.22910	498330	0	433400	374430	0	0	0	0	0	0	0	0	1061300	1140200	0
TRINITY_DN17504_c0_g1::TRINITY_DN17504_c0_g1_i2::g.84827::m.84827	0	0	0	0	0	0	0	0	0	0	0	0	985850	579720	1940500
TRINITY_DN16041_c1_g2::TRINITY_DN16041_c1_g2_i6::g.61105::m.61105	0	0	0	0	0	0	0	0	0	0	0	0	1008300	1237500	1244700
TRINITY_DN13569_c0_g2::TRINITY_DN13569_c0_g2_i1::g.25677::m.25677	0	0	0	0	0	0	0	0	0	0	237710	280580	0	1599400	1364100

TRINITY_DN11464_c0_g1::TRINITY_DN11464_c0_g1_i3::g.7465::m.7465	0	0	0	0	0	0	0	0	0	0	0	0	1096300	1289200	1075600
TRINITY_DN15585_c1_g1::TRINITY_DN15585_c1_g1_i8::g.54308::m.54308	280920	90342	300770	376760	0	271100	636090	537250	957590	0	0	0	0	0	0
TRINITY_DN15428_c6_g1::TRINITY_DN15428_c6_g1_i5::g.51800::m.51800	0	0	0	0	0	0	0	0	0	0	0	0	191960	2057400	1200200
TRINITY_DN18097_c14_g3::TRINITY_DN18097_c14_g3_i5::g.95141::m.95141	0	0	0	0	0	0	0	0	0	0	0	0	840390	1332900	1269100
TRINITY_DN12611_c0_g2::TRINITY_DN12611_c0_g2_i7::g.14237::m.14237	0	0	0	0	465600	0	0	486060	0	0	0	1567600	0	608540	305950
TRINITY_DN14738_c2_g1::TRINITY_DN14738_c2_g1_i2::g.41499::m.41499	0	0	0	0	0	0	0	0	0	0	0	0	1343700	1474200	607520
TRINITY_DN14357_c5_g2::TRINITY_DN14357_c5_g2_i13::g.35817::m.35817	0	0	0	0	0	0	0	0	0	0	0	0	1053000	1236800	1122500
TRINITY_DN16879_c1_g4::TRINITY_DN16879_c1_g4_i3::g.74866::m.74866	0	0	56175	49445	0	0	0	0	0	0	0	0	1054700	1306600	922270
TRINITY_DN16280_c0_g1::TRINITY_DN16280_c0_g1_i6::g.65080::m.65080	0	0	0	0	0	0	0	0	0	0	0	0	1287200	1614800	486980
TRINITY_DN13851_c1_g1::TRINITY_DN13851_c1_g1_i8::g.29304::m.29304	157000	84420	200610	157790	0	0	0	0	0	0	0	0	885940	1168600	727890
TRINITY_DN19385_c2_g1::TRINITY_DN19385_c2_g1_i11::g.117072::m.117072	0	0	0	0	0	0	0	0	0	0	0	0	624320	1335500	1414100
TRINITY_DN14233_c0_g1::TRINITY_DN14233_c0_g1_i2::g.34181::m.34181	80119	32729	0	57331	499520	265450	92133	524290	222890	0	472790	324060	279230	171760	325550
TRINITY_DN9198_c0_g1::TRINITY_DN9198_c0_g1_i1::g.3186::m.3186	0	0	0	0	0	0	0	0	0	0	0	0	483350	1622300	1227100
TRINITY_DN15338_c2_g1::TRINITY_DN15338_c2_g1_i4::g.50559::m.50559	0	0	0	0	0	0	0	0	0	0	132490	0	1397700	511460	1289600
TRINITY_DN16719_c0_g1::TRINITY_DN16719_c0_g1_i6::g.72195::m.72195	261330	0	0	0	0	0	0	0	0	0	0	0	0	3066100	0
TRINITY_DN18047_c0_g1::TRINITY_DN18047_c0_g1_i1::g.93485::m.93485	0	0	0	0	0	0	0	0	0	0	0	0	1053800	1482300	782210
TRINITY_DN12093_c0_g1::TRINITY_DN12093_c0_g1_i8::g.10458::m.10458	133670	45380	49785	87081	396250	109760	395850	0	0	107880	423880	482460	738440	0	345140
TRINITY_DN9933_c0_g1::TRINITY_DN9933_c0_g1_i1::g.4060::m.4060	66405	0	0	58968	182570	104910	261520	209140	0	132190	1602600	0	237610	331180	126910
TRINITY_DN17539_c0_g2::TRINITY_DN17539_c0_g2_i3::g.85610::m.85610	0	0	0	0	0	0	0	0	0	0	0	0	933320	1020800	1351900
TRINITY_DN12352_c0_g2::TRINITY_DN12352_c0_g2_i4::g.12096::m.12096	0	0	44846	43140	0	0	0	0	0	0	0	0	995040	1199900	1017700
TRINITY_DN12828_c0_g1::TRINITY_DN12828_c0_g1_i2::g.16430::m.16430	0	0	0	0	0	0	0	0	0	0	0	0	1325300	0	1972500

TRINITY_DN17150_c2_g1::TRINITY_DN17150_c2_g1_i7::g.79332::m.79332	43084	0	41497	33225	0	0	0	0	0	0	0	0	1222900	1294700	657980
TRINITY_DN15988_c0_g1::TRINITY_DN15988_c0_g1_i7::g.59999::m.59999	0	0	0	0	0	0	0	0	0	0	0	0	558120	866280	1866500
TRINITY_DN19643_c4_g1::TRINITY_DN19643_c4_g1_i10::g.121539::m.121539	32967	0	40325	45014	0	0	0	0	854730	555590	0	961040	428840	196520	164380
TRINITY_DN14785_c0_g1::TRINITY_DN14785_c0_g1_i8::g.42289::m.42289	0	0	0	0	0	0	0	0	0	0	0	0	967990	1017300	1291400
TRINITY_DN16927_c0_g1::TRINITY_DN16927_c0_g1_i2::g.75647::m.75647	0	0	0	0	0	0	0	0	0	0	0	0	1010800	1322300	942060
TRINITY_DN18066_c0_g3::TRINITY_DN18066_c0_g3_i5::g.94429::m.94429	120090	63785	218630	261940	139500	0	0	164010	0	0	382780	0	484180	728940	705130
TRINITY_DN15763_c0_g1::TRINITY_DN15763_c0_g1_i1::g.56716::m.56716	0	0	0	0	0	0	0	0	0	0	0	0	779390	1304200	1182700
TRINITY_DN17933_c0_g2::TRINITY_DN17933_c0_g2_i1::g.92168::m.92168	140920	76802	199020	0	647590	0	584920	531910	0	0	0	0	179150	500130	405740
TRINITY_DN16282_c1_g3::TRINITY_DN16282_c1_g3_i1::g.64973::m.64973	0	0	0	0	0	0	0	0	0	0	0	0	692550	1594000	978350
TRINITY_DN10432_c0_g1::TRINITY_DN10432_c0_g1_i2::g.4807::m.4807	0	0	0	0	0	0	0	0	0	0	0	0	1313600	917620	1022000
TRINITY_DN18168_c0_g1::TRINITY_DN18168_c0_g1_i2::g.96274::m.96274	0	0	0	0	0	0	0	0	0	0	0	0	1166200	984940	1095800
TRINITY_DN14775_c0_g2::TRINITY_DN14775_c0_g2_i2::g.42036::m.42036	0	0	0	56203	0	263980	0	0	0	0	0	0	609500	1219600	1090900
TRINITY_DN18002_c1_g3::TRINITY_DN18002_c1_g3_i1::g.93438::m.93438	0	0	0	0	0	0	0	0	0	0	0	0	1070000	1377700	791090
TRINITY_DN16157_c0_g1::TRINITY_DN16157_c0_g1_i7::g.62500::m.62500	0	0	0	0	0	0	0	0	0	0	0	0	797030	1238100	1195600
TRINITY_DN13818_c0_g2::TRINITY_DN13818_c0_g2_i1::g.28967::m.28967	0	0	0	0	0	0	0	58396	0	0	0	173670	752880	1282200	950290
TRINITY_DN11548_c0_g1::TRINITY_DN11548_c0_g1_i1::g.7714::m.7714	0	0	0	0	0	0	0	0	0	0	0	0	292420	2007400	894250
TRINITY_DN17145_c0_g1::TRINITY_DN17145_c0_g1_i4::g.79323::m.79323	0	0	0	0	0	0	0	0	93634	0	0	0	872660	980930	1226800
TRINITY_DN17214_c1_g1::TRINITY_DN17214_c1_g1_i9::g.80183::m.80183	0	0	0	0	0	0	0	0	0	0	0	0	1202300	1344000	614300
TRINITY_DN19434_c1_g1::TRINITY_DN19434_c1_g1_i6::g.117945::m.117945	544270	158960	540310	433030	452900	119130	552320	357330	0	0	0	0	0	0	0
TRINITY_DN11638_c0_g1::TRINITY_DN11638_c0_g1_i1::g.8051::m.8051	2890400	0	0	0	0	0	0	0	0	0	0	0	0	266560	0
TRINITY_DN12478_c4_g4::TRINITY_DN12478_c4_g4_i5::g.13332::m.13332	0	0	0	0	0	0	0	0	0	0	134240	0	927850	602900	1485300

TRINITY_DN16700_c3_g3::TRINITY_DN16700_c3_g3_i4::g.71827::m.71827	0	0	0	0	0	0	0	0	0	0	0	0	1492000	990580	662590
TRINITY_DN14707_c0_g2::TRINITY_DN14707_c0_g2_i9::g.40985::m.40985	0	0	0	0	0	0	0	0	0	0	0	0	680580	1354000	1109700
TRINITY_DN19896_c2_g1::TRINITY_DN19896_c2_g1_i4::g.125437::m.125437	0	0	0	0	0	0	0	0	0	0	0	0	835000	1077900	1222400
TRINITY_DN13645_c2_g2::TRINITY_DN13645_c2_g2_i6::g.26141::m.26141	0	0	0	0	0	0	0	0	0	0	0	0	1562700	0	1570400
TRINITY_DN11142_c1_g1::TRINITY_DN11142_c1_g1_i2::g.6468::m.6468	0	0	0	0	0	0	0	0	0	0	0	0	1397000	817590	902960
TRINITY_DN15069_c1_g1::TRINITY_DN15069_c1_g1_i6::g.46552::m.46552	0	0	0	0	0	0	0	0	0	0	0	0	996950	1164100	946220
TRINITY_DN18921_c0_g1::TRINITY_DN18921_c0_g1_i2::g.108916::m.108916	0	0	0	0	0	0	0	0	0	0	0	0	856370	679230	1563500
TRINITY_DN19606_c0_g1::TRINITY_DN19606_c0_g1_i4::g.121009::m.121009	0	0	0	0	0	0	0	0	0	0	0	0	752040	899610	1441200
TRINITY_DN15436_c5_g1::TRINITY_DN15436_c5_g1_i4::g.51870::m.51870	0	0	0	0	0	0	0	0	0	0	0	0	1141900	1541000	389530
TRINITY_DN18704_c0_g1::TRINITY_DN18704_c0_g1_i1::g.104889::m.104889	0	0	0	0	0	0	0	0	0	0	0	0	529230	1451900	1069400
TRINITY_DN11290_c1_g1::TRINITY_DN11290_c1_g1_i4::g.6884::m.6884	0	0	0	0	0	0	0	0	0	0	0	0	700940	1198300	1142300
TRINITY_DN17528_c1_g2::TRINITY_DN17528_c1_g2_i6::g.85342::m.85342	0	0	0	0	0	0	0	0	0	0	0	0	871570	1151300	995700
TRINITY_DN15505_c1_g1::TRINITY_DN15505_c1_g1_i3::g.53026::m.53026	0	0	0	0	0	0	0	0	0	0	0	0	932870	959750	1120200
TRINITY_DN11648_c0_g3::TRINITY_DN11648_c0_g3_i1::g.8240::m.8240	0	0	0	0	0	0	0	0	0	0	0	0	734000	1603000	675570
TRINITY_DN14322_c1_g1::TRINITY_DN14322_c1_g1_i1::g.35379::m.35379	0	0	0	0	0	0	0	0	0	0	0	0	1350900	741840	904800
TRINITY_DN19908_c2_g1::TRINITY_DN19908_c2_g1_i5::g.125911::m.125911	0	0	0	0	0	0	0	0	0	0	0	0	1195900	926020	867780
TRINITY_DN19181_c1_g1::TRINITY_DN19181_c1_g1_i4::g.113426::m.113426	39220	0	61677	64132	0	0	0	111590	0	0	292440	0	499990	1365800	553260
TRINITY_DN16453_c2_g1::TRINITY_DN16453_c2_g1_i14::g.67807::m.67807	28217	0	0	0	144380	0	194440	0	0	0	236880	751110	750210	425060	445850
TRINITY_DN12583_c1_g3::TRINITY_DN12583_c1_g3_i1::g.14008::m.14008	0	50127	179820	148000	625520	0	841460	234350	0	320060	558160	0	0	0	0
TRINITY_DN18832_c0_g1::TRINITY_DN18832_c0_g1_i1::g.107098::m.107098	0	0	0	0	0	0	194720	199520	0	221210	0	0	677930	941690	721930

TRINITY_DN14291_c3_g7::TRINITY_DN14291_c3_g7_i2::g.35143::m.35143	495900	129600	416900	433750	0	0	351650	399660	0	0	0	0	359860	369300	0
TRINITY_DN19997_c3_g2::TRINITY_DN19997_c3_g2_i2::g.127405::m.127405	0	0	0	0	0	0	0	0	0	0	0	0	1828200	0	1126100
TRINITY_DN13437_c3_g3::TRINITY_DN13437_c3_g3_i4::g.23371::m.23371	0	0	0	0	0	0	0	0	0	0	0	0	946250	1256000	750140
TRINITY_DN16324_c2_g1::TRINITY_DN16324_c2_g1_i11::g.65876::m.65876	111560	32966	130790	115780	0	0	0	0	437740	115740	250830	0	707390	418140	618210
TRINITY_DN14723_c2_g4::TRINITY_DN14723_c2_g4_i2::g.41268::m.41268	0	0	0	0	0	0	0	0	0	0	0	0	1249300	1291300	396440
TRINITY_DN12136_c0_g1::TRINITY_DN12136_c0_g1_i2::g.10688::m.10688	0	0	0	0	0	0	0	0	0	0	0	0	738530	958760	1234800
TRINITY_DN19231_c4_g1::TRINITY_DN19231_c4_g1_i8::g.114359::m.114359	0	0	0	0	0	0	0	0	0	0	0	0	616310	1133300	1180100
TRINITY_DN15458_c1_g3::TRINITY_DN15458_c1_g3_i6::g.52102::m.52102	0	0	0	0	0	0	0	0	0	0	0	0	887440	1108600	929160
TRINITY_DN15082_c1_g1::TRINITY_DN15082_c1_g1_i1::g.46708::m.46708	0	0	0	0	0	0	133990	0	0	0	367350	1110200	711450	317450	278750
TRINITY_DN19344_c5_g1::TRINITY_DN19344_c5_g1_i3::g.115614::m.115614	0	0	0	46466	0	0	0	98982	0	0	0	0	1651700	720930	396050
TRINITY_DN14912_c1_g1::TRINITY_DN14912_c1_g1_i4::g.44268::m.44268	247530	104660	304300	381790	0	0	242320	0	0	0	1220800	0	133180	277700	0
TRINITY_DN13129_c8_g5::TRINITY_DN13129_c8_g5_i1::g.20297::m.20297	0	0	0	0	0	0	0	0	0	0	0	0	133670	1194700	1580500
TRINITY_DN12983_c5_g1::TRINITY_DN12983_c5_g1_i4::g.18189::m.18189	0	0	0	0	0	0	0	0	0	0	0	0	871910	1174700	860770
TRINITY_DN13073_c0_g1::TRINITY_DN13073_c0_g1_i2::g.19364::m.19364	0	0	0	0	0	0	0	0	0	0	0	0	816240	1128600	961000
TRINITY_DN14563_c5_g1::TRINITY_DN14563_c5_g1_i5::g.38974::m.38974	0	0	0	0	0	0	0	0	0	0	0	0	0	2899900	0
TRINITY_DN15029_c4_g1::TRINITY_DN15029_c4_g1_i3::g.45979::m.45979	0	0	0	0	0	0	0	0	0	0	0	0	848170	1009800	1041600
TRINITY_DN16123_c0_g2::TRINITY_DN16123_c0_g2_i3::g.62404::m.62404	0	0	0	0	0	0	0	0	0	0	0	0	1073900	1014800	808730
TRINITY_DN13128_c0_g1::TRINITY_DN13128_c0_g1_i1::g.20153::m.20153	0	0	0	0	0	0	0	0	0	0	0	0	596390	2082300	208630
TRINITY_DN11467_c0_g1::TRINITY_DN11467_c0_g1_i3::g.7480::m.7480	0	0	0	0	0	0	0	0	0	0	0	0	815940	992620	1066300
TRINITY_DN16134_c1_g1::TRINITY_DN16134_c1_g1_i3::g.62771::m.62771	0	0	0	0	0	0	0	0	0	0	0	196400	435310	1082100	1160600

TRINITY_DN12648_c0_g1::TRINITY_DN12648_c0_g1_i4::g.15036::m.15036	36607	30294	69845	45658	0	0	0	0	0	0	0	0	1009200	827660	844290
TRINITY_DN17776_c1_g1::TRINITY_DN17776_c1_g1_i2::g.89554::m.89554	282910	67780	213730	326150	421930	99222	275270	0	0	0	585520	386790	0	202200	0
TRINITY_DN17310_c0_g2::TRINITY_DN17310_c0_g2_i2::g.81838::m.81838	0	0	0	0	0	0	0	0	0	0	0	0	776400	929640	1152700
TRINITY_DN18211_c0_g1::TRINITY_DN18211_c0_g1_i1::g.96953::m.96953	0	0	0	0	0	0	0	0	0	0	0	0	787130	1072500	998640
TRINITY_DN16650_c2_g2::TRINITY_DN16650_c2_g2_i4::g.71040::m.71040	0	0	0	0	298670	80715	353570	87238	581510	163810	335420	608820	104440	131700	110980
TRINITY_DN17333_c5_g3::TRINITY_DN17333_c5_g3_i2::g.82453::m.82453	0	0	0	0	0	0	0	0	0	0	0	0	957920	1124100	773130
TRINITY_DN12530_c0_g1::TRINITY_DN12530_c0_g1_i1::g.13568::m.13568	0	0	0	0	0	0	0	0	0	0	0	0	729600	1467600	657840
TRINITY_DN15837_c1_g2::TRINITY_DN15837_c1_g2_i3::g.57761::m.57761	0	0	0	0	0	0	0	0	0	0	0	0	397740	918100	1531900
TRINITY_DN20022_c2_g5::TRINITY_DN20022_c2_g5_i1::g.128013::m.128013	0	0	0	0	0	0	0	0	0	0	0	0	750060	1004300	1067700
TRINITY_DN18115_c1_g1::TRINITY_DN18115_c1_g1_i4::g.95413::m.95413	0	0	0	0	0	0	0	0	0	0	0	0	1393600	891400	535700
TRINITY_DN15805_c1_g2::TRINITY_DN15805_c1_g2_i2::g.57262::m.57262	0	0	0	0	0	0	0	0	0	0	0	0	927290	706170	1184200
TRINITY_DN15457_c3_g1::TRINITY_DN15457_c3_g1_i1::g.52194::m.52194	0	0	0	0	0	0	0	0	0	0	0	0	558350	766410	1486800
TRINITY_DN14777_c1_g1::TRINITY_DN14777_c1_g1_i9::g.42089::m.42089	0	0	0	0	0	0	0	0	0	0	0	0	673450	668770	1464400
TRINITY_DN13637_c0_g1::TRINITY_DN13637_c0_g1_i7::g.26541::m.26541	0	0	0	0	0	0	0	0	0	0	0	0	945850	1018500	834090
TRINITY_DN13683_c1_g1::TRINITY_DN13683_c1_g1_i4::g.27154::m.27154	0	0	0	0	0	0	0	0	0	0	0	0	834720	1235600	716110
TRINITY_DN13930_c0_g1::TRINITY_DN13930_c0_g1_i1::g.30435::m.30435	0	0	0	0	0	0	124220	144450	0	0	0	0	907560	1601400	0
TRINITY_DN12625_c0_g2::TRINITY_DN12625_c0_g2_i2::g.14331::m.14331	0	0	0	0	0	0	0	0	0	0	0	0	880820	1485600	409510
TRINITY_DN14916_c3_g2::TRINITY_DN14916_c3_g2_i1::g.44503::m.44503	0	0	0	0	0	0	0	0	0	0	0	0	1431500	625910	715480
TRINITY_DN16821_c2_g1::TRINITY_DN16821_c2_g1_i2::g.73867::m.73867	0	0	0	0	0	0	0	0	0	0	0	0	1180500	1055600	533430
TRINITY_DN18229_c0_g2::TRINITY_DN18229_c0_g2_i1::g.97234::m.97234	0	104500	200820	314820	0	0	0	536810	1602700	0	0	0	0	0	0

TRINITY_DN19026_c0_g3::TRINITY_DN19026_c0_g3_i5::g.110636::m.110636	0	0	0	0	0	0	189650	0	0	0	0	0	816410	604850	1144400
TRINITY_DN19212_c1_g1::TRINITY_DN19212_c1_g1_i8::g.114114::m.1141	0	0	0	0	0	0	307350	215380	0	258650	0	0	380530	896180	685100
TRINITY_DN12118_c0_g1::TRINITY_DN12118_c0_g1_i1::g.10631::m.10631	0	0	0	0	0	0	0	0	0	0	0	0	1410100	625950	700810
TRINITY_DN18618_c2_g3::TRINITY_DN18618_c2_g3_i2::g.103853::m.103853	0	0	0	0	0	0	0	0	0	0	0	0	852660	1038100	843790
TRINITY_DN17695_c2_g1::TRINITY_DN17695_c2_g1_i3::g.88380::m.88380	0	0	0	0	0	0	0	0	0	0	0	0	0	2733600	0
TRINITY_DN14310_c2_g3::TRINITY_DN14310_c2_g3_i5::g.35345::m.35345	0	0	0	0	0	0	0	0	0	0	0	0	810370	970790	944290
TRINITY_DN16144_c0_g3::TRINITY_DN16144_c0_g3_i9::g.62076::m.62076	0	0	0	0	0	0	0	0	0	0	0	0	746070	637000	1331300
TRINITY_DN12285_c1_g1::TRINITY_DN12285_c1_g1_i3::g.11619::m.11619	0	0	0	0	0	0	0	0	0	0	0	0	983820	1306400	418980
TRINITY_DN19816_c1_g2::TRINITY_DN19816_c1_g2_i10::g.124090::m.124090	0	0	0	0	0	0	0	0	0	0	0	0	787430	1028100	891250
TRINITY_DN15180_c0_g2::TRINITY_DN15180_c0_g2_i2::g.47796::m.47796	0	0	0	0	0	0	0	0	0	0	0	0	579630	1189100	934080
TRINITY_DN19665_c1_g1::TRINITY_DN19665_c1_g1_i7::g.121863::m.121863	0	0	0	0	0	0	0	0	0	0	0	0	856720	947420	898440
TRINITY_DN19770_c1_g4::TRINITY_DN19770_c1_g4_i6::g.123393::m.123393	0	0	64771	72894	0	0	0	0	0	0	159490	0	984620	1066000	354360
TRINITY_DN14513_c0_g3::TRINITY_DN14513_c0_g3_i9::g.38189::m.38189	462610	175360	367590	177370	113640	69979	147980	135520	0	198010	398420	454360	0	0	0
TRINITY_DN16940_c1_g1::TRINITY_DN16940_c1_g1_i2::g.75863::m.75863	298010	151980	473430	442780	0	0	0	0	0	0	0	1326700	0	0	0
TRINITY_DN14725_c0_g1::TRINITY_DN14725_c0_g1_i4::g.41213::m.41213	667050	848730	1175500	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN12515_c0_g1::TRINITY_DN12515_c0_g1_i3::g.13461::m.13461	260300	0	296100	66702	285220	0	0	236240	93965	0	131570	0	731440	0	584960
TRINITY_DN16262_c1_g3::TRINITY_DN16262_c1_g3_i2::g.64875::m.64875	0	0	0	0	0	0	0	0	0	0	0	0	1058300	1159600	455010
TRINITY_DN13815_c1_g1::TRINITY_DN13815_c1_g1_i21::g.28891::m.2889	0	0	0	0	0	0	0	0	179320	0	0	0	0	2246100	240950
TRINITY_DN14602_c3_g2::TRINITY_DN14602_c3_g2_i9::g.39596::m.39596	40459	34765	143300	141870	49398	27835	0	0	0	111600	377170	0	542320	610350	579550
TRINITY_DN18669_c1_g1::TRINITY_DN18669_c1_g1_i3::g.104346::m.104346	0	0	0	0	0	0	0	0	0	0	0	0	636700	1344100	677550

TRINITY_DN16497_c0_g5::TRINITY_DN16497_c0_g5_i1::g.67600::m.67600	0	0	0	0	0	0	0	0	0	0	0	2537200	0	65960	54296
TRINITY_DN15927_c0_g1::TRINITY_DN15927_c0_g1_i2::g.59092::m.59092	129320	0	83894	42779	0	0	98739	0	0	0	0	533520	848950	0	917290
TRINITY_DN17586_c3_g1::TRINITY_DN17586_c3_g1_i5::g.86439::m.86439	0	0	0	0	0	0	0	0	0	0	0	0	605040	1093600	954940
TRINITY_DN16528_c2_g1::TRINITY_DN16528_c2_g1_i3::g.69117::m.69117	0	0	0	0	0	0	0	0	0	0	0	0	1047100	1605700	0
TRINITY_DN15498_c4_g2::TRINITY_DN15498_c4_g2_i2::g.51311::m.51311	0	0	0	0	0	0	0	0	0	0	0	0	1009200	1506500	133320
TRINITY_DN14361_c0_g1::TRINITY_DN14361_c0_g1_i5::g.35830::m.35830	0	0	0	0	0	0	0	0	0	0	0	0	1033700	661500	950100
TRINITY_DN11484_c0_g1::TRINITY_DN11484_c0_g1_i2::g.7552::m.7552	0	0	0	0	0	0	0	0	0	0	0	0	805480	745250	1076900
TRINITY_DN12658_c0_g1::TRINITY_DN12658_c0_g1_i2::g.14732::m.14732	0	0	0	0	0	0	0	0	0	0	0	0	91813	1107400	1426200
TRINITY_DN10660_c0_g1::TRINITY_DN10660_c0_g1_i1::g.5237::m.5237	543780	69922	789960	417800	0	0	0	299100	0	0	502370	0	0	0	0
TRINITY_DN3120_c0_g1::TRINITY_DN3120_c0_g1_i1::g.867::m.867	0	0	0	0	0	0	0	0	0	0	0	0	793450	1627600	195160
TRINITY_DN19581_c3_g6::TRINITY_DN19581_c3_g6_i4::g.120132::m.120132	0	0	0	0	0	0	0	0	0	0	0	0	859060	824180	928460
TRINITY_DN19709_c5_g1::TRINITY_DN19709_c5_g1_i3::g.122591::m.122591	0	0	0	0	0	0	0	0	0	0	0	0	1093400	824490	692250
TRINITY_DN16440_c0_g1::TRINITY_DN16440_c0_g1_i4::g.67503::m.67503	0	0	0	0	0	0	0	0	0	0	0	0	674660	711320	1197000
TRINITY_DN16345_c2_g1::TRINITY_DN16345_c2_g1_i1::g.66206::m.66206	0	0	95853	0	509330	180550	952820	841700	0	0	0	0	0	0	0
TRINITY_DN19239_c3_g1::TRINITY_DN19239_c3_g1_i4::g.113825::m.113825	0	0	0	0	0	0	0	0	0	0	0	0	777580	947800	853970
TRINITY_DN16612_c3_g7::TRINITY_DN16612_c3_g7_i2::g.70355::m.70355	0	0	0	0	0	0	0	0	0	0	0	0	703080	844570	1028400
TRINITY_DN19651_c4_g1::TRINITY_DN19651_c4_g1_i17::g.121374::m.121374	0	45185	110680	0	121110	163910	0	242940	0	607690	0	838380	0	280640	164110
TRINITY_DN12541_c0_g1::TRINITY_DN12541_c0_g1_i2::g.13592::m.13592	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2547100
TRINITY_DN14080_c2_g2::TRINITY_DN14080_c2_g2_i1::g.32148::m.32148	0	0	0	0	0	0	0	0	0	0	0	0	1175500	1371400	0
TRINITY_DN16026_c0_g1::TRINITY_DN16026_c0_g1_i2::g.60976::m.60976	0	0	0	0	0	0	0	0	0	0	0	0	873570	695420	972240

TRINITY_DN17082_c4_g2::TRINITY_DN17082_c4_g2_i2::g.78169::m.78169	0	0	0	0	0	0	0	110660	0	0	0	0	492940	1055700	881670
TRINITY_DN19559_c2_g2::TRINITY_DN19559_c2_g2_i6::g.119806::m.119806	0	0	0	0	0	369120	0	0	0	0	0	0	998180	1171800	0
TRINITY_DN19551_c4_g4::TRINITY_DN19551_c4_g4_i1::g.119681::m.119681	0	0	0	0	0	0	0	0	0	0	0	0	0	2538600	0
TRINITY_DN12675_c1_g1::TRINITY_DN12675_c1_g1_i4::g.14912::m.14912	0	0	0	0	0	0	0	0	0	0	0	0	979750	431390	1126200
TRINITY_DN14194_c0_g2::TRINITY_DN14194_c0_g2_i9::g.33546::m.33546	0	0	0	0	0	0	0	0	0	0	0	0	677670	1121600	734720
TRINITY_DN15675_c4_g2::TRINITY_DN15675_c4_g2_i2::g.55509::m.55509	70947	0	89672	0	255430	0	0	0	0	0	809120	813820	0	492010	0
TRINITY_DN16295_c1_g2::TRINITY_DN16295_c1_g2_i1::g.65228::m.65228	0	0	0	0	0	0	0	0	0	0	0	0	924030	1096400	510520
TRINITY_DN16659_c4_g1::TRINITY_DN16659_c4_g1_i7::g.71135::m.71135	0	0	0	0	0	0	0	39660	0	0	0	0	525670	1220900	742960
TRINITY_DN15142_c0_g1::TRINITY_DN15142_c0_g1_i16::g.47469::m.47469	110240	51474	127780	117290	627650	278030	0	522200	0	0	0	0	285330	0	407950
TRINITY_DN14674_c1_g1::TRINITY_DN14674_c1_g1_i2::g.40399::m.40399	0	0	0	0	0	0	0	0	0	0	226240	0	545960	860120	892010
TRINITY_DN12462_c4_g1::TRINITY_DN12462_c4_g1_i1::g.13140::m.13140	0	0	0	0	0	0	0	0	0	0	0	0	772900	941410	809510
TRINITY_DN18768_c2_g1::TRINITY_DN18768_c2_g1_i1::g.106105::m.106105	0	0	0	0	0	0	0	0	0	0	0	0	1240300	958000	325300
TRINITY_DN19730_c4_g2::TRINITY_DN19730_c4_g2_i8::g.122947::m.122947	0	0	0	0	0	0	0	0	0	0	0	0	160610	1319700	1040700
TRINITY_DN18061_c2_g5::TRINITY_DN18061_c2_g5_i2::g.94542::m.94542	268380	0	38607	246610	233900	0	0	212050	0	0	0	0	0	1067600	453680
TRINITY_DN15458_c1_g2::TRINITY_DN15458_c1_g2_i4::g.52100::m.52100	0	0	0	0	0	0	0	0	0	0	0	0	175410	1183500	1154600
TRINITY_DN14909_c1_g1::TRINITY_DN14909_c1_g1_i3::g.44168::m.44168	0	0	0	0	0	0	0	0	0	0	0	0	1097400	649150	758590
TRINITY_DN16927_c1_g1::TRINITY_DN16927_c1_g1_i7::g.75660::m.75660	0	0	0	0	0	0	0	0	0	0	0	0	952660	804790	747080
TRINITY_DN17463_c2_g1::TRINITY_DN17463_c2_g1_i7::g.84144::m.84144	0	0	0	200020	0	0	273140	0	0	365440	871170	790360	0	0	0
TRINITY_DN19844_c1_g3::TRINITY_DN19844_c1_g3_i3::g.124457::m.124457	172780	44998	148370	134430	0	124840	0	199820	0	0	0	801300	0	474220	393290
TRINITY_DN15946_c1_g2::TRINITY_DN15946_c1_g2_i8::g.59360::m.59360	0	0	89184	0	0	0	0	118420	454150	0	0	1498100	0	171140	159420

TRINITY_DN14927_c1_g1::TRINITY_DN14927_c1_g1_i11::g.44438::m.44438	0	0	0	0	0	0	0	0	0	0	0	0	665620	1016800	796660
TRINITY_DN17612_c1_g2::TRINITY_DN17612_c1_g2_i3::g.87024::m.87024	0	0	0	0	0	0	0	0	0	0	0	0	520890	941140	1013400
TRINITY_DN18637_c1_g1::TRINITY_DN18637_c1_g1_i7::g.103721::m.103721	0	0	0	0	0	0	0	0	0	0	0	0	498930	1257600	710410
TRINITY_DN12213_c0_g1::TRINITY_DN12213_c0_g1_i3::g.11157::m.11157	0	0	0	0	0	0	0	0	0	0	0	0	435500	790840	1238100
TRINITY_DN19518_c0_g1::TRINITY_DN19518_c0_g1_i8::g.119129::m.1191	319710	78334	267040	334980	0	0	0	154310	0	0	637430	657700	0	0	0
TRINITY_DN19195_c4_g1::TRINITY_DN19195_c4_g1_i3::g.113639::m.113639	0	0	0	0	0	0	0	0	0	0	0	0	313980	949850	1185200
TRINITY_DN13292_c1_g6::TRINITY_DN13292_c1_g6_i2::g.22041::m.22041	0	0	0	0	0	0	0	0	0	0	0	0	1091000	0	1352100
TRINITY_DN14741_c0_g1::TRINITY_DN14741_c0_g1_i2::g.41477::m.41477	168940	0	467930	146120	439020	78222	0	0	0	417340	0	0	185620	538300	0
TRINITY_DN14630_c2_g8::TRINITY_DN14630_c2_g8_i1::g.39829::m.39829	0	0	0	0	0	0	0	0	0	0	0	0	753220	870330	817760
TRINITY_DN16782_c2_g1::TRINITY_DN16782_c2_g1_i3::g.73171::m.73171	152010	0	228640	232190	224000	88459	241610	0	0	0	0	1271900	0	0	0
TRINITY_DN18173_c2_g1::TRINITY_DN18173_c2_g1_i9::g.96627::m.96627	0	0	0	0	0	0	0	0	0	0	0	0	691230	781450	958640
TRINITY_DN17174_c0_g2::TRINITY_DN17174_c0_g2_i1::g.79619::m.79619	0	0	0	0	0	0	0	0	0	0	0	0	608480	820890	999770
TRINITY_DN12761_c4_g1::TRINITY_DN12761_c4_g1_i4::g.15698::m.15698	346410	79321	254830	218960	0	0	0	0	0	0	0	0	699370	816020	0
TRINITY_DN15641_c2_g1::TRINITY_DN15641_c2_g1_i3::g.54993::m.54993	135620	0	0	83453	0	0	0	0	0	400540	0	0	236300	857620	694660
TRINITY_DN16713_c1_g2::TRINITY_DN16713_c1_g2_i6::g.72096::m.72096	0	0	0	0	0	0	0	0	0	0	0	814280	269510	838000	485100
TRINITY_DN15145_c0_g2::TRINITY_DN15145_c0_g2_i2::g.46817::m.46817	0	0	0	0	0	0	0	0	0	0	0	0	886180	307230	1211400
TRINITY_DN16390_c0_g1::TRINITY_DN16390_c0_g1_i2::g.66783::m.66783	0	0	0	0	0	0	0	123110	0	0	0	350320	718450	714350	490790
TRINITY_DN16711_c0_g1::TRINITY_DN16711_c0_g1_i4::g.72030::m.72030	0	0	0	0	0	0	0	0	0	0	0	0	702840	925840	766920
TRINITY_DN15384_c0_g1::TRINITY_DN15384_c0_g1_i3::g.51070::m.51070	0	0	126090	0	0	0	0	0	0	0	0	0	1018000	797180	450490
TRINITY_DN17041_c0_g1::TRINITY_DN17041_c0_g1_i4::g.77480::m.77480	90090	0	0	78304	0	0	0	0	0	0	0	0	356660	256570	1606300
TRINITY_DN18962_c1_g1::TRINITY_DN18962_c1_g1_i3::g.109730::m.109730	0	0	0	0	0	0	0	0	0	0	0	0	335140	1075400	971540
TRINITY_DN16476_c3_g1::TRINITY_DN16476_c3_g1_i9::g.68231::m.68231	0	0	0	0	0	0	0	0	0	0	0	0	651350	783870	939170

TRINITY_DN17658_c5_g3::TRINITY_DN17658_c5_g3_i2::g.87770::m.87770	0	0	0	0	0	0	0	0	0	0	0	0	464280	768220	1139800
TRINITY_DN16523_c1_g1::TRINITY_DN16523_c1_g1_i4::g.69126::m.69126	0	0	0	0	0	0	0	0	0	0	0	0	962430	681890	726620
TRINITY_DN19779_c3_g3::TRINITY_DN19779_c3_g3_i2::g.123543::m.123543	574840	0	588840	297520	0	0	0	0	0	0	0	0	516950	390660	0
TRINITY_DN15367_c2_g1::TRINITY_DN15367_c2_g1_i7::g.50786::m.50786	0	155890	0	636170	0	260360	0	0	1312900	0	0	0	0	0	0
TRINITY_DN14788_c0_g1::TRINITY_DN14788_c0_g1_i1::g.42248::m.42248	0	0	0	0	0	0	0	0	0	0	0	0	1603900	419920	340730
TRINITY_DN12593_c2_g1::TRINITY_DN12593_c2_g1_i1::g.14128::m.14128	0	0	0	0	0	0	0	0	0	0	0	1878800	0	0	483670
TRINITY_DN18024_c1_g1::TRINITY_DN18024_c1_g1_i2::g.93774::m.93774	275170	91784	211590	175410	0	123600	210700	0	622970	0	0	650970	0	0	0
TRINITY_DN16834_c1_g1::TRINITY_DN16834_c1_g1_i1::g.74148::m.74148	0	0	0	0	91291	0	91568	0	226020	176200	0	1016600	453110	307240	0
TRINITY_DN19047_c1_g5::TRINITY_DN19047_c1_g5_i2::g.111027::m.111027	0	0	0	0	0	0	0	0	0	0	0	0	88515	1378600	891740
TRINITY_DN15127_c0_g2::TRINITY_DN15127_c0_g2_i1::g.47217::m.47217	0	0	0	0	0	0	0	0	0	0	0	0	399060	1173300	783650
TRINITY_DN13215_c0_g6::TRINITY_DN13215_c0_g6_i3::g.21426::m.21426	225020	83451	193030	152390	0	0	0	0	0	0	0	0	304560	731960	659770
TRINITY_DN16629_c2_g3::TRINITY_DN16629_c2_g3_i2::g.70768::m.70768	0	0	0	90726	480960	174370	412380	0	0	369300	818320	0	0	0	0
TRINITY_DN11853_c0_g1::TRINITY_DN11853_c0_g1_i3::g.9201::m.9201	0	0	0	0	0	0	0	0	0	0	0	0	703510	1353100	286670
TRINITY_DN12481_c0_g1::TRINITY_DN12481_c0_g1_i2::g.13223::m.13223	0	0	0	0	0	0	0	0	0	0	0	0	159080	1357900	825030
TRINITY_DN17670_c0_g2::TRINITY_DN17670_c0_g2_i7::g.87973::m.87973	0	0	0	0	0	0	0	0	0	0	0	0	171170	1665800	497640
TRINITY_DN17125_c1_g1::TRINITY_DN17125_c1_g1_i9::g.78918::m.78918	0	0	0	0	0	0	0	0	0	0	0	0	90104	1191200	1052900
TRINITY_DN16077_c0_g5::TRINITY_DN16077_c0_g5_i1::g.61752::m.61752	0	0	0	0	0	0	0	0	0	0	0	0	709560	828890	792600
TRINITY_DN17927_c1_g1::TRINITY_DN17927_c1_g1_i3::g.92125::m.92125	0	0	0	0	0	0	0	0	0	0	0	0	414540	1025200	889530
TRINITY_DN13566_c3_g2::TRINITY_DN13566_c3_g2_i6::g.25511::m.25511	0	0	0	0	0	0	0	102870	0	0	0	0	670840	801440	752740
TRINITY_DN15783_c0_g1::TRINITY_DN15783_c0_g1_i4::g.56969::m.56969	27426	0	0	166330	0	0	0	158980	0	0	0	785350	229890	549190	399150
TRINITY_DN14219_c0_g1::TRINITY_DN14219_c0_g1_i15::g.33893::m.33893	18892	0	21588	0	0	0	201910	0	0	0	0	260150	185650	801880	821030

TRINITY_DN16674_c0_g1::TRINITY_DN16674_c0_g1_i2::g.71326::m.71326	0	0	0	0	0	0	0	0	0	0	0	0	873450	839780	596900
TRINITY_DN18146_c1_g5::TRINITY_DN18146_c1_g5_i1::g.95204::m.95204	0	0	0	0	0	0	0	0	0	0	0	0	1423100	0	886770
TRINITY_DN15699_c1_g3::TRINITY_DN15699_c1_g3_i5::g.55823::m.55823	0	0	0	0	0	0	0	0	0	0	0	0	790750	376820	1139700
TRINITY_DN17055_c3_g2::TRINITY_DN17055_c3_g2_i4::g.77693::m.77693	0	0	0	0	0	53141	0	0	0	136430	441730	0	625790	336840	702280
TRINITY_DN16303_c1_g1::TRINITY_DN16303_c1_g1_i9::g.65704::m.65704	0	0	0	0	0	0	0	0	0	0	0	0	735840	0	1552500
TRINITY_DN19783_c1_g1::TRINITY_DN19783_c1_g1_i4::g.123602::m.123602	0	0	0	0	0	0	0	0	0	0	0	0	344360	772090	1171200
TRINITY_DN15141_c1_g1::TRINITY_DN15141_c1_g1_i2::g.47502::m.47502	98349	0	0	0	0	0	0	0	0	0	0	0	0	0	2186900
TRINITY_DN11784_c0_g1::TRINITY_DN11784_c0_g1_i1::g.8804::m.8804	0	0	0	0	0	0	0	0	0	0	0	0	684950	937030	660420
TRINITY_DN16035_c3_g1::TRINITY_DN16035_c3_g1_i2::g.61026::m.61026	103090	0	116550	83410	134180	0	338480	526610	309660	291510	0	364190	0	0	0
TRINITY_DN13920_c2_g1::TRINITY_DN13920_c2_g1_i2::g.30365::m.30365	0	0	0	0	0	0	0	0	0	0	111760	0	556570	819000	773680
TRINITY_DN13342_c3_g1::TRINITY_DN13342_c3_g1_i3::g.22570::m.22570	0	0	0	0	0	0	0	0	0	0	0	0	953280	488290	814960
TRINITY_DN16268_c4_g1::TRINITY_DN16268_c4_g1_i16::g.64855::m.64855	31067	0	0	0	0	0	86857	0	0	0	0	0	443260	1175400	511480
TRINITY_DN12624_c0_g1::TRINITY_DN12624_c0_g1_i1::g.14480::m.14480	0	0	0	0	0	0	0	0	0	0	0	0	504830	1424100	318540
TRINITY_DN10700_c0_g1::TRINITY_DN10700_c0_g1_i1::g.5317::m.5317	0	0	0	0	0	0	0	0	0	0	0	0	834370	393060	1019800
TRINITY_DN14461_c1_g2::TRINITY_DN14461_c1_g2_i3::g.37522::m.37522	0	0	0	0	0	0	0	0	0	0	0	0	405810	740010	1096800
TRINITY_DN11860_c0_g1::TRINITY_DN11860_c0_g1_i2::g.9213::m.9213	0	0	0	0	0	0	0	0	0	0	0	0	0	2232700	0
TRINITY_DN17343_c0_g2::TRINITY_DN17343_c0_g2_i1::g.82237::m.82237	0	0	0	0	0	0	0	0	0	0	0	0	476970	666260	1089300
TRINITY_DN17700_c1_g1::TRINITY_DN17700_c1_g1_i9::g.86845::m.86845	0	0	0	0	0	0	0	0	0	0	0	0	306760	1006000	919370
TRINITY_DN15208_c2_g1::TRINITY_DN15208_c2_g1_i1::g.48542::m.48542	0	0	0	0	0	0	0	0	0	0	0	0	120460	1640200	466200
TRINITY_DN17602_c0_g7::TRINITY_DN17602_c0_g7_i2::g.86978::m.86978	0	0	0	0	0	0	0	151740	0	0	1033100	605650	0	115890	318430
TRINITY_DN15799_c0_g1::TRINITY_DN15799_c0_g1_i13::g.55967::m.55967	82225	39138	0	0	403640	116460	0	433430	0	0	0	981920	78740	81373	0

TRINITY_DN19816_c1_g2::TRINITY_DN19816_c1_g2_i9::g.124089::m.124089	0	0	0	0	0	0	0	0	0	0	0	0	263340	1488500	463940
TRINITY_DN14106_c1_g2::TRINITY_DN14106_c1_g2_i1::g.32414::m.32414	259160	95736	397690	423200	0	0	0	124950	0	0	0	0	482780	114960	313120
TRINITY_DN19486_c1_g2::TRINITY_DN19486_c1_g2_i2::g.118619::m.118619	0	0	0	0	0	0	0	0	0	0	0	0	542370	1667800	0
TRINITY_DN16542_c2_g2::TRINITY_DN16542_c2_g2_i8::g.69479::m.69479	0	0	0	0	0	0	0	0	0	0	0	0	446330	1264500	496610
TRINITY_DN15298_c0_g1::TRINITY_DN15298_c0_g1_i1::g.49745::m.49745	0	0	0	0	0	0	0	0	0	0	0	0	955450	591330	659500
TRINITY_DN14245_c1_g1::TRINITY_DN14245_c1_g1_i8::g.34453::m.34453	0	0	0	0	0	0	0	0	0	0	0	0	752310	897130	555110
TRINITY_DN16993_c0_g1::TRINITY_DN16993_c0_g1_i5::g.76723::m.76723	91709	0	64287	60836	0	0	0	0	0	0	0	0	615300	1368600	0
TRINITY_DN18845_c2_g1::TRINITY_DN18845_c2_g1_i6::g.106645::m.106645	0	0	0	0	0	0	0	0	0	0	0	0	578860	896630	722110
TRINITY_DN17503_c1_g2::TRINITY_DN17503_c1_g2_i5::g.84903::m.84903	0	0	0	0	0	0	0	0	0	0	0	0	1126400	389630	680670
TRINITY_DN18733_c1_g1::TRINITY_DN18733_c1_g1_i16::g.105945::m.105945	0	0	0	0	0	0	0	0	0	0	0	0	706660	582330	907250
TRINITY_DN13161_c0_g2::TRINITY_DN13161_c0_g2_i6::g.20596::m.20596	0	0	0	0	0	0	0	0	0	0	0	0	1005200	0	1187900
TRINITY_DN16310_c4_g1::TRINITY_DN16310_c4_g1_i21::g.65586::m.65586	0	0	0	0	0	0	0	0	0	0	0	0	745980	873050	574090
TRINITY_DN16789_c2_g2::TRINITY_DN16789_c2_g2_i2::g.73230::m.73230	0	0	0	0	0	0	0	0	0	0	0	0	572880	119760	1496700
TRINITY_DN14198_c0_g1::TRINITY_DN14198_c0_g1_i9::g.33644::m.33644	0	0	0	0	0	0	0	0	0	0	0	0	406140	784680	996920
TRINITY_DN11382_c0_g1::TRINITY_DN11382_c0_g1_i1::g.7166::m.7166	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2187100
TRINITY_DN18612_c0_g3::TRINITY_DN18612_c0_g3_i1::g.103400::m.103400	0	0	0	0	121120	0	0	113630	0	0	0	0	650270	637650	657040
TRINITY_DN13425_c1_g1::TRINITY_DN13425_c1_g1_i4::g.23719::m.23719	0	0	0	0	0	0	0	0	0	0	0	0	789230	789370	595620
TRINITY_DN18242_c3_g2::TRINITY_DN18242_c3_g2_i3::g.97426::m.97426	0	0	0	0	0	0	0	468150	0	0	0	0	0	1338600	357120
TRINITY_DN16339_c2_g2::TRINITY_DN16339_c2_g2_i2::g.65998::m.65998	0	0	0	0	24514	0	0	0	0	0	0	0	663870	487860	984930
TRINITY_DN17082_c3_g1::TRINITY_DN17082_c3_g1_i1::g.78154::m.78154	0	0	0	0	0	0	0	0	0	0	0	0	0	889840	1271300

TRINITY_DN19447_c1_g1::TRINITY_DN19447_c1_g1_i4::g.118090::m.118090	103740	40870	75844	150910	195560	0	0	91622	0	198690	0	344860	321430	393120	244450
TRINITY_DN12896_c0_g1::TRINITY_DN12896_c0_g1_i6::g.17068::m.17068	0	0	0	0	0	0	0	0	0	0	0	0	1514600	644770	0
TRINITY_DN17884_c0_g1::TRINITY_DN17884_c0_g1_i1::g.91267::m.91267	0	0	0	0	0	0	0	0	0	0	0	0	654670	672590	826630
TRINITY_DN19798_c2_g2::TRINITY_DN19798_c2_g2_i9::g.123749::m.123749	0	0	0	0	0	0	0	0	0	0	0	0	678050	420900	1054100
TRINITY_DN19714_c6_g2::TRINITY_DN19714_c6_g2_i2::g.122726::m.122726	120940	0	0	0	0	0	0	0	0	425330	686560	718780	0	0	200690
TRINITY_DN16697_c1_g2::TRINITY_DN16697_c1_g2_i3::g.70483::m.70483	0	0	0	0	0	0	0	0	0	0	0	0	0	1027500	1124700
TRINITY_DN18870_c1_g2::TRINITY_DN18870_c1_g2_i1::g.107727::m.107727	68147	0	393920	103420	598680	365780	0	193950	0	0	427830	0	0	0	0
TRINITY_DN18726_c1_g1::TRINITY_DN18726_c1_g1_i9::g.105485::m.105485	0	0	0	0	0	0	0	0	0	0	0	0	594240	986130	569620
TRINITY_DN18156_c0_g1::TRINITY_DN18156_c0_g1_i18::g.96138::m.9613	0	0	0	0	0	0	0	0	0	0	0	0	506630	887720	750490
TRINITY_DN17096_c1_g1::TRINITY_DN17096_c1_g1_i4::g.78249::m.78249	0	0	0	0	0	0	0	0	0	0	0	0	547310	518870	1078300
TRINITY_DN18240_c0_g1::TRINITY_DN18240_c0_g1_i3::g.97435::m.97435	0	0	0	0	0	0	0	0	0	0	804140	0	117770	98565	1124000
TRINITY_DN14353_c0_g2::TRINITY_DN14353_c0_g2_i2::g.35716::m.35716	0	0	0	0	0	0	0	0	0	0	0	0	0	984360	1154700
TRINITY_DN16303_c1_g2::TRINITY_DN16303_c1_g2_i1::g.65686::m.65686	0	0	0	0	0	0	0	0	0	0	0	0	700390	1163900	267500
TRINITY_DN13465_c2_g1::TRINITY_DN13465_c2_g1_i6::g.24168::m.24168	0	0	0	0	0	0	0	0	0	0	0	0	681370	407110	1031000
TRINITY_DN16506_c3_g1::TRINITY_DN16506_c3_g1_i1::g.68717::m.68717	0	0	0	0	0	0	0	0	0	0	0	0	703370	852370	560700
TRINITY_DN20189_c0_g1::TRINITY_DN20189_c0_g1_i1::g.128508::m.128508	269290	58414	229120	89218	0	0	0	0	0	0	275010	1183700	0	0	0
TRINITY_DN3188_c0_g1::TRINITY_DN3188_c0_g1_i1::g.878::m.878	0	0	245250	0	0	0	460320	0	0	0	0	1267400	0	125290	0
TRINITY_DN17908_c2_g1::TRINITY_DN17908_c2_g1_i5::g.91796::m.91796	0	0	0	0	316020	195940	209090	177610	356930	210900	226480	396440	0	0	0
TRINITY_DN13425_c1_g3::TRINITY_DN13425_c1_g3_i2::g.23712::m.23712	0	0	0	0	0	0	0	0	0	0	0	0	500520	884850	702430

TRINITY_DN14799_c0_g2::TRINITY_DN14799_c0_g2_i3::g.42387::m.42387	75398	0	102380	0	0	0	0	0	0	0	0	0	386510	1235100	284380
TRINITY_DN12952_c0_g1::TRINITY_DN12952_c0_g1_i2::g.17756::m.17756	251330	72085	170840	300780	0	0	0	138450	0	0	0	0	0	396250	753970
TRINITY_DN18755_c3_g1::TRINITY_DN18755_c3_g1_i1::g.105920::m.105920	0	0	0	0	0	0	0	0	0	0	0	0	249570	897720	935620
TRINITY_DN14404_c3_g2::TRINITY_DN14404_c3_g2_i3::g.36551::m.36551	0	0	0	0	0	0	0	0	0	0	0	0	746530	350890	982790
TRINITY_DN19358_c6_g3::TRINITY_DN19358_c6_g3_i5::g.116477::m.116477	0	0	0	0	0	0	0	0	0	0	0	0	624380	1022300	430120
TRINITY_DN12704_c0_g1::TRINITY_DN12704_c0_g1_i4::g.15091::m.15091	0	0	0	0	0	0	0	0	0	0	0	0	1303500	522760	248960
TRINITY_DN20043_c7_g2::TRINITY_DN20043_c7_g2_i2::g.128238::m.128238	0	0	0	0	0	0	0	0	0	0	0	0	104570	1395000	572070
TRINITY_DN17498_c2_g1::TRINITY_DN17498_c2_g1_i6::g.83121::m.83121	0	0	0	0	0	0	0	0	0	0	0	0	520260	1048200	500580
TRINITY_DN18857_c0_g5::TRINITY_DN18857_c0_g5_i2::g.107485::m.107485	0	0	0	0	0	0	0	0	0	0	0	0	579120	933290	546310
TRINITY_DN14751_c0_g1::TRINITY_DN14751_c0_g1_i8::g.40814::m.40814	0	0	0	0	0	0	0	0	0	0	0	0	848090	774070	433690
TRINITY_DN17602_c0_g3::TRINITY_DN17602_c0_g3_i7::g.86972::m.86972	0	0	0	0	0	0	0	0	0	0	0	0	813210	676320	563390
TRINITY_DN11500_c0_g1::TRINITY_DN11500_c0_g1_i2::g.7570::m.7570	0	0	0	2047200	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN17024_c0_g5::TRINITY_DN17024_c0_g5_i1::g.77080::m.77080	0	0	0	0	0	0	0	0	0	0	0	0	1480800	409660	150120
TRINITY_DN18652_c2_g1::TRINITY_DN18652_c2_g1_i2::g.104075::m.104075	0	0	0	0	0	0	0	0	0	164360	0	0	413330	521380	940860
TRINITY_DN19078_c0_g3::TRINITY_DN19078_c0_g3_i6::g.111344::m.111344	0	0	0	0	0	0	0	0	0	0	0	0	0	1747000	285820
TRINITY_DN13010_c2_g2::TRINITY_DN13010_c2_g2_i9::g.18708::m.18708	0	0	0	0	0	0	0	0	0	0	0	0	618080	738260	672470
TRINITY_DN18307_c0_g1::TRINITY_DN18307_c0_g1_i4::g.98617::m.98617	0	0	0	0	0	0	0	0	0	0	0	0	929590	1093400	0
TRINITY_DN14082_c1_g1::TRINITY_DN14082_c1_g1_i3::g.32100::m.32100	0	71302	0	37524	0	0	0	0	0	0	164410	0	310940	969850	459810
TRINITY_DN17986_c0_g1::TRINITY_DN17986_c0_g1_i2::g.93139::m.93139	0	0	0	0	0	0	0	0	0	0	0	0	0	598130	1412200
TRINITY_DN13091_c0_g1::TRINITY_DN13091_c0_g1_i4::g.19648::m.19648	525980	0	279350	389690	0	0	0	0	0	113130	0	0	208490	264830	228060

TRINITY_DN16278_c2_g2::TRINITY_DN16278_c2_g2_i8::g.65116::m.65116	0	0	0	0	0	0	0	0	0	0	0	0	539210	750620	717730
TRINITY_DN13098_c2_g1::TRINITY_DN13098_c2_g1_i5::g.19700::m.19700	0	0	0	0	0	0	0	0	0	0	889460	676200	0	256580	185260
TRINITY_DN11989_c0_g1::TRINITY_DN11989_c0_g1_i1::g.9805::m.9805	0	0	0	48114	0	0	0	0	0	0	0	0	100280	493450	1363800
TRINITY_DN19569_c1_g4::TRINITY_DN19569_c1_g4_i1::g.119978::m.119978	0	0	0	0	0	0	0	0	0	0	0	0	724230	636030	639700
TRINITY_DN16768_c1_g4::TRINITY_DN16768_c1_g4_i5::g.73029::m.73029	0	0	0	0	0	0	0	0	0	0	0	0	263150	753060	981240
TRINITY_DN13051_c9_g1::TRINITY_DN13051_c9_g1_i1::g.19838::m.19838	0	0	0	0	0	0	0	0	0	0	0	0	361370	880190	755320
TRINITY_DN15531_c1_g1::TRINITY_DN15531_c1_g1_i8::g.53401::m.53401	0	0	0	0	0	0	0	0	316300	0	1678600	0	0	0	0
TRINITY_DN17286_c1_g1::TRINITY_DN17286_c1_g1_i1::g.81477::m.81477	0	0	0	0	0	0	0	0	0	146530	0	0	734350	562480	545280
TRINITY_DN13833_c0_g1::TRINITY_DN13833_c0_g1_i8::g.29930::m.29930	0	0	0	0	0	0	0	0	0	0	0	0	506230	798100	682810
TRINITY_DN16501_c0_g1::TRINITY_DN16501_c0_g1_i7::g.68513::m.68513	0	0	0	0	0	0	0	0	0	0	0	0	185970	1107400	692390
TRINITY_DN14803_c0_g1::TRINITY_DN14803_c0_g1_i4::g.42638::m.42638	0	0	0	0	0	0	0	0	0	97627	0	0	0	1791500	95816
TRINITY_DN13921_c0_g1::TRINITY_DN13921_c0_g1_i2::g.30314::m.30314	0	0	0	0	0	0	0	0	0	0	0	0	445060	852960	681100
TRINITY_DN13437_c3_g1::TRINITY_DN13437_c3_g1_i7::g.23377::m.23377	0	0	0	0	0	0	0	0	0	0	0	0	634890	700350	643420
TRINITY_DN18701_c4_g10::TRINITY_DN18701_c4_g10_i2::g.103928::m.103928	0	0	0	0	386270	0	213470	348110	278710	0	0	0	116170	627700	0
TRINITY_DN19119_c0_g1::TRINITY_DN19119_c0_g1_i6::g.112459::m.1124	0	0	0	0	0	0	0	0	0	0	0	0	436090	723300	806460
TRINITY_DN17314_c1_g2::TRINITY_DN17314_c1_g2_i7::g.81924::m.81924	0	0	0	0	0	0	0	0	0	0	0	0	578220	786000	594290
TRINITY_DN13833_c0_g2::TRINITY_DN13833_c0_g2_i5::g.29925::m.29925	0	0	0	0	0	0	0	0	0	0	0	0	602820	691190	661330
TRINITY_DN13861_c0_g1::TRINITY_DN13861_c0_g1_i7::g.29399::m.29399	0	0	0	0	0	0	0	0	0	0	0	0	307130	358210	1288100
TRINITY_DN18605_c15_g2::TRINITY_DN18605_c15_g2_i1::g.103707::m.103707	0	0	0	0	0	0	0	0	0	0	0	1319000	204920	419160	0
TRINITY_DN12655_c1_g2::TRINITY_DN12655_c1_g2_i3::g.14763::m.14763	0	0	0	0	0	0	0	0	0	0	0	0	325680	1015900	589520
TRINITY_DN20026_c6_g1::TRINITY_DN20026_c6_g1_i3::g.128057::m.128057	0	0	0	0	0	0	0	0	0	0	0	0	656410	798620	475270

TRINITY_DN16058_c1_g1::TRINITY_DN16058_c1_g1_i7::g.61245::m.61245	0	0	0	0	0	0	0	0	0	0	0	0	628310	740730	557500
TRINITY_DN11865_c0_g1::TRINITY_DN11865_c0_g1_i7::g.9262::m.9262	0	0	0	0	0	0	0	0	0	0	0	0	859420	602590	457320
TRINITY_DN11961_c0_g1::TRINITY_DN11961_c0_g1_i6::g.9678::m.9678	0	0	0	0	0	0	0	0	0	0	0	0	500180	582750	827300
TRINITY_DN15627_c0_g2::TRINITY_DN15627_c0_g2_i1::g.54590::m.54590	0	0	0	0	0	0	0	0	0	0	0	0	555450	688790	665710
TRINITY_DN18478_c2_g2::TRINITY_DN18478_c2_g2_i3::g.101133::m.101133	0	0	0	0	0	0	0	0	0	0	0	0	635000	1273400	0
TRINITY_DN16690_c0_g1::TRINITY_DN16690_c0_g1_i1::g.71666::m.71666	0	0	0	0	0	0	0	0	0	0	0	0	549740	932430	421940
TRINITY_DN17879_c1_g3::TRINITY_DN17879_c1_g3_i5::g.91260::m.91260	83951	0	72679	52369	0	0	0	0	0	0	0	0	220650	693240	778300
TRINITY_DN17973_c0_g5::TRINITY_DN17973_c0_g5_i1::g.92489::m.92489	0	0	0	0	0	0	0	0	0	0	0	0	301590	365730	1222300
TRINITY_DN19252_c1_g4::TRINITY_DN19252_c1_g4_i7::g.114562::m.114562	0	0	0	0	0	0	0	0	0	0	0	0	756580	738460	390650
TRINITY_DN18739_c0_g3::TRINITY_DN18739_c0_g3_i2::g.105640::m.105640	0	0	0	0	0	0	0	0	0	0	0	0	475310	613300	796380
TRINITY_DN13888_c0_g2::TRINITY_DN13888_c0_g2_i1::g.29877::m.29877	0	0	0	0	0	0	0	0	0	0	0	0	567190	750930	565380
TRINITY_DN19344_c5_g2::TRINITY_DN19344_c5_g2_i3::g.115627::m.115627	0	0	0	0	0	0	0	0	0	0	0	0	0	743210	1134800
TRINITY_DN18418_c0_g3::TRINITY_DN18418_c0_g3_i2::g.100138::m.100138	0	0	0	0	0	0	0	0	0	0	0	0	1084800	499180	285430
TRINITY_DN18913_c2_g1::TRINITY_DN18913_c2_g1_i5::g.108928::m.108928	0	0	0	0	0	0	0	0	0	0	0	0	188870	1111500	567280
TRINITY_DN19613_c2_g1::TRINITY_DN19613_c2_g1_i4::g.120850::m.120850	58249	0	80500	0	0	53194	0	0	0	0	0	0	546760	1129000	0
TRINITY_DN17758_c1_g2::TRINITY_DN17758_c1_g2_i7::g.89243::m.89243	0	0	0	0	0	0	0	0	0	0	0	0	534580	446180	881550
TRINITY_DN14688_c0_g2::TRINITY_DN14688_c0_g2_i3::g.40630::m.40630	45967	0	65196	48398	740910	0	0	0	0	0	0	0	280030	315030	364520
TRINITY_DN16770_c0_g2::TRINITY_DN16770_c0_g2_i2::g.73031::m.73031	0	0	0	0	506790	244060	0	422260	0	0	0	0	212150	213440	258600
TRINITY_DN15617_c2_g1::TRINITY_DN15617_c2_g1_i3::g.54449::m.54449	0	0	0	0	0	0	0	0	0	0	0	0	0	1155600	698450

TRINITY_DN19193_c1_g3::TRINITY_DN19193_c1_g3_i5::g.113622::m.113622	0	0	0	0	0	0	0	0	0	0	616220	645230	220930	0	370410
TRINITY_DN11271_c0_g1::TRINITY_DN11271_c0_g1_i1::g.6832::m.6832	0	0	0	0	0	0	0	0	0	0	0	0	791460	824090	236880
TRINITY_DN17765_c0_g1::TRINITY_DN17765_c0_g1_i1::g.89341::m.89341	291520	109800	241090	238260	0	0	0	267580	193140	100940	0	404940	0	0	0
TRINITY_DN13374_c2_g1::TRINITY_DN13374_c2_g1_i4::g.22819::m.22819	0	0	0	0	0	0	0	0	0	0	0	0	897960	938380	0
TRINITY_DN15833_c5_g1::TRINITY_DN15833_c5_g1_i12::g.57896::m.57896	0	0	0	0	0	0	0	0	0	0	0	1494300	0	222660	118040
TRINITY_DN17806_c2_g2::TRINITY_DN17806_c2_g2_i4::g.90030::m.90030	0	0	0	0	0	0	0	0	0	0	0	0	101610	1286300	446730
TRINITY_DN15514_c4_g2::TRINITY_DN15514_c4_g2_i2::g.53063::m.53063	0	0	0	0	0	0	0	0	0	0	0	0	630800	463510	738720
TRINITY_DN15090_c0_g1::TRINITY_DN15090_c0_g1_i3::g.46611::m.46611	0	0	0	0	0	0	0	0	0	0	0	0	136220	1527300	168450
TRINITY_DN12620_c0_g1::TRINITY_DN12620_c0_g1_i4::g.14272::m.14272	0	0	0	0	0	0	0	0	0	0	120710	163320	0	1547600	0
TRINITY_DN10821_c0_g1::TRINITY_DN10821_c0_g1_i1::g.5589::m.5589	0	0	0	0	0	0	0	0	0	0	0	0	651600	220430	957710
TRINITY_DN12247_c0_g5::TRINITY_DN12247_c0_g5_i2::g.11476::m.11476	0	0	0	0	0	0	0	0	0	0	0	0	541670	789550	498340
TRINITY_DN17715_c1_g2::TRINITY_DN17715_c1_g2_i7::g.88682::m.88682	116000	0	115320	133030	173810	0	177630	176960	0	0	0	0	884670	0	34350
TRINITY_DN13507_c0_g2::TRINITY_DN13507_c0_g2_i4::g.24688::m.24688	0	0	0	0	0	0	0	0	0	0	0	0	0	1034000	777070
TRINITY_DN18452_c0_g2::TRINITY_DN18452_c0_g2_i5::g.100623::m.100623	216710	59296	198880	187570	0	0	0	0	0	0	0	1147000	0	0	0
TRINITY_DN18940_c3_g1::TRINITY_DN18940_c3_g1_i4::g.109190::m.109190	0	0	0	0	0	0	0	0	0	0	0	0	561520	622090	624340
TRINITY_DN19263_c0_g3::TRINITY_DN19263_c0_g3_i3::g.114810::m.114810	0	0	0	0	0	170540	0	425270	0	0	0	0	690330	521190	0
TRINITY_DN16828_c3_g2::TRINITY_DN16828_c3_g2_i1::g.74126::m.74126	0	0	0	0	0	0	0	0	0	0	0	0	143910	911030	750780
TRINITY_DN15895_c3_g2::TRINITY_DN15895_c3_g2_i1::g.57724::m.57724	26781	0	0	0	253080	0	0	0	0	0	337210	0	697750	365400	124500
TRINITY_DN18527_c2_g1::TRINITY_DN18527_c2_g1_i1::g.101980::m.101980	0	0	0	0	0	0	0	0	0	0	0	0	591990	1212200	0

TRINITY_DN18999_c4_g1::TRINITY_DN18999_c4_g1_i2::g.110202::m.110202	0	0	0	0	0	0	0	0	0	0	0	0	698810	372040	732420
TRINITY_DN16996_c2_g1::TRINITY_DN16996_c2_g1_i5::g.76760::m.76760	392480	34323	0	489270	0	0	0	0	0	0	494160	0	105810	126800	157520
TRINITY_DN17420_c0_g1::TRINITY_DN17420_c0_g1_i9::g.83584::m.83584	639120	165970	366980	627850	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN18991_c0_g1::TRINITY_DN18991_c0_g1_i4::g.110139::m.1101	0	0	0	0	0	0	0	0	0	0	0	0	233550	836930	723660
TRINITY_DN16630_c2_g2::TRINITY_DN16630_c2_g2_i3::g.70772::m.70772	0	0	0	0	0	0	0	0	0	0	0	0	481990	795330	509570
TRINITY_DN17508_c5_g4::TRINITY_DN17508_c5_g4_i2::g.85425::m.85425	0	0	0	0	0	172140	0	317510	446120	325100	0	0	190610	333720	0
TRINITY_DN16170_c0_g1::TRINITY_DN16170_c0_g1_i3::g.63133::m.63133	0	0	0	0	0	0	0	0	0	0	0	0	1165900	385990	229730
TRINITY_DN13107_c5_g1::TRINITY_DN13107_c5_g1_i1::g.19946::m.19946	0	0	0	144650	0	0	0	0	159090	119710	0	0	381630	547290	427450
TRINITY_DN17688_c2_g2::TRINITY_DN17688_c2_g2_i2::g.88270::m.88270	0	0	0	0	0	0	0	0	0	634460	0	1140700	0	0	0
TRINITY_DN12789_c1_g2::TRINITY_DN12789_c1_g2_i26::g.15965::m.15965	276170	79021	246780	249680	0	207650	0	53878	359150	0	300520	0	0	0	0
TRINITY_DN16664_c4_g1::TRINITY_DN16664_c4_g1_i4::g.71662::m.71662	0	0	0	0	0	0	0	0	0	0	0	0	557090	634690	577740
TRINITY_DN15784_c0_g1::TRINITY_DN15784_c0_g1_i2::g.57047::m.57047	0	0	0	0	0	0	0	209620	0	0	0	0	0	893660	664660
TRINITY_DN17576_c2_g1::TRINITY_DN17576_c2_g1_i10::g.86267::m.86267	0	0	0	0	0	0	0	0	0	0	0	0	264580	728610	773440
TRINITY_DN20043_c8_g6::TRINITY_DN20043_c8_g6_i2::g.128243::m.128243	201560	87962	241550	167640	0	0	0	159500	0	0	0	0	313930	0	594360
TRINITY_DN17136_c2_g4::TRINITY_DN17136_c2_g4_i1::g.79232::m.79232	0	0	0	0	0	0	0	0	0	0	0	0	441590	634030	689540
TRINITY_DN17588_c1_g2::TRINITY_DN17588_c1_g2_i1::g.86528::m.86528	0	0	0	0	0	0	0	0	0	0	0	0	480570	607740	672840
TRINITY_DN12440_c1_g1::TRINITY_DN12440_c1_g1_i2::g.13042::m.13042	0	0	0	0	0	702100	0	0	0	0	0	0	308930	692670	52637
TRINITY_DN14203_c2_g2::TRINITY_DN14203_c2_g2_i3::g.33825::m.33825	0	0	0	0	0	0	0	0	0	0	0	0	341300	782820	632140
TRINITY_DN16295_c1_g3::TRINITY_DN16295_c1_g3_i8::g.65237::m.65237	0	0	0	0	0	0	0	0	0	0	0	0	817120	937300	0

TRINITY_DN14603_c3_g1::TRINITY_DN14603_c3_g1_i1::g.39490::m.39490	0	0	0	0	0	0	0	0	0	0	0	0	336720	806280	600450
TRINITY_DN17919_c1_g4::TRINITY_DN17919_c1_g4_i5::g.91938::m.91938	0	0	0	0	0	0	0	0	0	0	0	0	765470	767440	208410
TRINITY_DN16456_c0_g2::TRINITY_DN16456_c0_g2_i7::g.67919::m.67919	0	0	0	0	0	0	0	0	0	0	0	0	548630	628620	562920
TRINITY_DN18783_c5_g1::TRINITY_DN18783_c5_g1_i3::g.106356::m.106356	0	0	88345	0	0	0	0	0	660030	0	101410	0	252620	335000	301820
TRINITY_DN14585_c2_g1::TRINITY_DN14585_c2_g1_i7::g.39202::m.39202	0	0	0	0	0	0	0	0	103410	226980	0	600390	0	0	806570
TRINITY_DN17674_c1_g2::TRINITY_DN17674_c1_g2_i8::g.88061::m.88061	0	0	0	0	0	0	0	0	0	0	0	0	301040	368970	1065700
TRINITY_DN15931_c0_g1::TRINITY_DN15931_c0_g1_i5::g.59103::m.59103	0	168270	605050	573300	0	0	0	386260	0	0	0	0	0	0	0
TRINITY_DN15984_c0_g3::TRINITY_DN15984_c0_g3_i1::g.59910::m.59910	0	0	0	0	0	0	0	0	0	0	0	0	444160	680660	607190
TRINITY_DN15696_c0_g5::TRINITY_DN15696_c0_g5_i1::g.55738::m.55738	296020	79798	218250	101800	0	0	0	0	320140	221910	0	0	0	253090	238440
TRINITY_DN13415_c1_g2::TRINITY_DN13415_c1_g2_i6::g.23608::m.23608	0	0	0	0	0	0	0	0	0	0	0	0	620490	697230	407310
TRINITY_DN10290_c0_g3::TRINITY_DN10290_c0_g3_i1::g.4573::m.4573	0	0	0	0	0	0	0	0	0	0	0	0	888520	94044	742330
TRINITY_DN17086_c3_g1::TRINITY_DN17086_c3_g1_i14::g.77558::m.77558	0	0	0	0	0	0	0	0	0	0	0	0	163980	565480	994230
TRINITY_DN15448_c0_g1::TRINITY_DN15448_c0_g1_i6::g.51979::m.51979	0	0	0	0	0	0	0	198040	0	0	0	0	399220	589930	535880
TRINITY_DN17327_c0_g4::TRINITY_DN17327_c0_g4_i4::g.82004::m.82004	0	0	0	0	0	0	0	0	0	0	0	0	376060	927420	418170
TRINITY_DN18850_c2_g1::TRINITY_DN18850_c2_g1_i14::g.107185::m.107185	266200	0	0	184070	0	0	0	0	0	0	0	0	198960	583830	487800
TRINITY_DN15339_c5_g2::TRINITY_DN15339_c5_g2_i1::g.49931::m.49931	0	0	0	0	0	0	0	0	0	0	0	0	166810	880190	668260
TRINITY_DN11883_c0_g2::TRINITY_DN11883_c0_g2_i5::g.9377::m.9377	0	0	0	0	0	0	0	0	247250	0	221080	0	481410	0	763810
TRINITY_DN15187_c1_g1::TRINITY_DN15187_c1_g1_i9::g.47932::m.47932	140870	51395	150310	151830	0	0	235880	0	0	382620	600550	0	0	0	0
TRINITY_DN18055_c0_g1::TRINITY_DN18055_c0_g1_i4::g.94445::m.94445	0	0	0	0	0	0	0	0	0	0	0	0	577390	757030	377650
TRINITY_DN17443_c0_g6::TRINITY_DN17443_c0_g6_i1::g.83849::m.83849	0	33198	81087	72163	0	0	0	120200	317260	0	553440	372840	62016	0	94921

TRINITY_DN17889_c3_g3::TRINITY_DN17889_c3_g3_i2::g.91373::m.91373	0	0	0	0	0	0	0	0	0	0	0	0	0	1220400	486070
TRINITY_DN16290_c1_g2::TRINITY_DN16290_c1_g2_i6::g.65201::m.65201	0	0	0	0	0	0	0	0	0	0	207190	0	206620	479130	810170
TRINITY_DN16914_c0_g2::TRINITY_DN16914_c0_g2_i3::g.75483::m.75483	134810	81234	214040	425750	0	245590	0	0	0	0	599930	0	0	0	0
TRINITY_DN16356_c0_g1::TRINITY_DN16356_c0_g1_i13::g.66037::m.66037	0	0	0	0	0	0	0	0	0	0	0	0	609020	0	1091900
TRINITY_DN16552_c0_g2::TRINITY_DN16552_c0_g2_i2::g.69237::m.69237	0	0	0	0	0	0	0	0	0	0	0	0	528710	626300	543760
TRINITY_DN13122_c2_g7::TRINITY_DN13122_c2_g7_i5::g.20188::m.20188	0	0	0	0	0	0	0	0	0	0	0	0	349100	964210	384860
TRINITY_DN18287_c2_g1::TRINITY_DN18287_c2_g1_i6::g.98094::m.98094	0	0	0	0	0	0	0	0	0	0	0	0	0	765200	928570
TRINITY_DN15932_c0_g5::TRINITY_DN15932_c0_g5_i5::g.59228::m.59228	0	0	0	0	0	0	0	0	0	0	0	0	454050	463750	775930
TRINITY_DN17310_c0_g1::TRINITY_DN17310_c0_g1_i2::g.81834::m.81834	25582	0	0	0	0	0	226680	0	0	241050	419790	391480	101660	139930	147100
TRINITY_DN15542_c3_g2::TRINITY_DN15542_c3_g2_i4::g.53532::m.53532	0	0	0	0	0	0	0	0	0	0	0	0	626840	704910	360830
TRINITY_DN18437_c2_g2::TRINITY_DN18437_c2_g2_i5::g.100589::m.100589	0	0	0	0	0	0	0	0	0	0	0	0	474700	752920	459940
TRINITY_DN17906_c0_g2::TRINITY_DN17906_c0_g2_i5::g.91748::m.91748	0	0	0	0	0	0	0	0	0	0	0	0	874480	289850	521330
TRINITY_DN12593_c3_g1::TRINITY_DN12593_c3_g1_i6::g.14142::m.14142	0	0	0	0	0	0	0	0	0	0	0	0	424370	533620	725380
TRINITY_DN18611_c0_g1::TRINITY_DN18611_c0_g1_i4::g.103412::m.1034	0	0	0	0	1020600	0	0	0	0	0	0	0	0	312150	349720
TRINITY_DN14624_c0_g1::TRINITY_DN14624_c0_g1_i4::g.39690::m.39690	41717	0	0	43442	0	0	0	0	0	0	0	0	732090	865000	0
TRINITY_DN19014_c2_g2::TRINITY_DN19014_c2_g2_i8::g.110573::m.110573	0	0	0	0	0	0	0	0	0	0	0	0	585240	338730	754190
TRINITY_DN16277_c1_g3::TRINITY_DN16277_c1_g3_i4::g.64929::m.64929	0	0	0	0	0	0	0	0	0	0	0	0	423810	681660	570180
TRINITY_DN17957_c0_g1::TRINITY_DN17957_c0_g1_i11::g.92631::m.92631	0	0	0	0	0	0	0	0	0	0	0	0	313640	1066400	294520
TRINITY_DN15571_c4_g3::TRINITY_DN15571_c4_g3_i4::g.54049::m.54049	0	0	0	0	0	0	0	0	0	0	0	0	253820	689250	729280

TRINITY_DN11568_c0_g1::TRINITY_DN11568_c0_g1_i1::g.7589::m.7589	0	0	0	0	0	0	0	0	0	0	0	0	205330	246510	1217200
TRINITY_DN12349_c8_g2::TRINITY_DN12349_c8_g2_i3::g.12071::m.12071	0	0	0	0	0	0	0	0	0	0	0	0	530570	190700	946230
TRINITY_DN12678_c0_g1::TRINITY_DN12678_c0_g1_i7::g.14864::m.14864	0	0	0	0	0	0	0	0	0	0	0	0	413210	852770	396630
TRINITY_DN16016_c2_g1::TRINITY_DN16016_c2_g1_i9::g.60539::m.60539	0	0	0	0	0	0	0	0	0	0	0	0	0	833690	822180
TRINITY_DN11023_c0_g2::TRINITY_DN11023_c0_g2_i1::g.6151::m.6151	504380	0	680340	468210	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN18955_c2_g1::TRINITY_DN18955_c2_g1_i2::g.109309::m.109309	0	0	0	0	0	0	0	0	0	0	0	0	626120	838930	186330
TRINITY_DN17913_c4_g1::TRINITY_DN17913_c4_g1_i1::g.91856::m.91856	92023	26569	0	0	168680	0	188520	157540	0	0	583450	427840	0	0	0
TRINITY_DN18697_c0_g2::TRINITY_DN18697_c0_g2_i2::g.103311::m.103311	0	0	0	0	0	0	0	0	0	0	0	0	486320	645020	510890
TRINITY_DN15624_c0_g1::TRINITY_DN15624_c0_g1_i1::g.54548::m.54548	0	0	0	0	0	0	0	0	0	0	0	0	701070	652920	287840
TRINITY_DN12621_c1_g1::TRINITY_DN12621_c1_g1_i2::g.14309::m.14309	221860	0	237350	180870	167120	0	0	0	0	0	0	0	272370	174320	385900
TRINITY_DN15292_c1_g3::TRINITY_DN15292_c1_g3_i1::g.49799::m.49799	0	0	0	0	0	0	0	0	0	0	0	0	284870	794880	559920
TRINITY_DN16971_c2_g1::TRINITY_DN16971_c2_g1_i8::g.76469::m.76469	0	0	0	0	0	0	0	0	0	0	466760	0	350700	416270	405480
TRINITY_DN15274_c1_g2::TRINITY_DN15274_c1_g2_i1::g.49397::m.49397	0	0	0	0	0	0	0	0	0	0	0	0	672350	191240	771260
TRINITY_DN17008_c0_g1::TRINITY_DN17008_c0_g1_i7::g.77048::m.77048	76941	0	165860	80909	0	0	0	0	0	0	0	1309600	0	0	0
TRINITY_DN18404_c1_g1::TRINITY_DN18404_c1_g1_i7::g.100040::m.100040	0	0	0	0	0	0	0	0	0	0	0	0	75515	474230	1081900
TRINITY_DN18356_c1_g1::TRINITY_DN18356_c1_g1_i9::g.99317::m.99317	0	0	0	0	0	0	0	0	0	0	0	0	315980	818860	496540
TRINITY_DN17060_c1_g1::TRINITY_DN17060_c1_g1_i6::g.77747::m.77747	0	0	0	0	0	0	0	0	0	0	0	0	0	891290	739250
TRINITY_DN14005_c1_g1::TRINITY_DN14005_c1_g1_i1::g.31333::m.31333	0	0	0	34838	0	0	0	0	0	0	0	0	444560	621970	528800
TRINITY_DN16201_c3_g1::TRINITY_DN16201_c3_g1_i2::g.62696::m.62696	0	0	0	0	0	0	0	0	0	0	0	0	308740	383200	938140
TRINITY_DN12639_c0_g1::TRINITY_DN12639_c0_g1_i2::g.14158::m.14158	0	0	0	0	0	0	0	0	0	0	0	0	599050	579870	450450
TRINITY_DN15473_c1_g1::TRINITY_DN15473_c1_g1_i2::g.52569::m.52569	24057	0	87208	45220	0	0	0	123310	0	0	0	0	386620	540070	421080
TRINITY_DN17388_c0_g2::TRINITY_DN17388_c0_g2_i7::g.82945::m.82945	0	0	34181	0	0	0	0	0	0	0	0	0	271140	711720	608260

TRINITY_DN19219_c1_g1::TRINITY_DN19219_c1_g1_i14::g.114200::m.114200	0	0	16192	0	257330	81332	331310	175850	0	0	0	0	223380	286970	244240
TRINITY_DN16821_c1_g1::TRINITY_DN16821_c1_g1_i1::g.73860::m.73860	0	0	0	0	245270	0	0	0	0	0	0	0	356860	448510	565410
TRINITY_DN18965_c3_g1::TRINITY_DN18965_c3_g1_i3::g.109455::m.109455	826240	141210	0	238790	0	0	396580	0	0	0	0	0	0	0	0
TRINITY_DN16438_c0_g4::TRINITY_DN16438_c0_g4_i1::g.67637::m.67637	0	0	0	0	0	0	0	0	0	0	0	0	582640	667340	351080
TRINITY_DN16330_c0_g1::TRINITY_DN16330_c0_g1_i8::g.66108::m.66108	0	0	0	0	0	0	0	0	0	0	0	0	556920	442890	600430
TRINITY_DN19616_c4_g3::TRINITY_DN19616_c4_g3_i5::g.120935::m.120935	0	0	0	0	0	0	0	0	0	0	0	0	101540	576210	916530
TRINITY_DN17970_c3_g1::TRINITY_DN17970_c3_g1_i6::g.92954::m.92954	41788	0	139030	64385	0	0	0	0	0	0	0	0	643120	214500	490440
TRINITY_DN16469_c0_g1::TRINITY_DN16469_c0_g1_i7::g.67034::m.67034	375460	188190	227400	245940	0	0	0	0	0	0	551850	0	0	0	0
TRINITY_DN15978_c1_g2::TRINITY_DN15978_c1_g2_i1::g.59851::m.59851	0	0	0	0	0	0	0	0	0	0	0	0	545240	705060	333770
TRINITY_DN17528_c1_g1::TRINITY_DN17528_c1_g1_i8::g.85347::m.85347	0	0	0	0	0	0	0	0	0	0	0	0	80639	741470	761960
TRINITY_DN19544_c2_g6::TRINITY_DN19544_c2_g6_i1::g.119552::m.119552	0	0	0	0	0	0	0	0	0	0	0	0	540990	494280	542990
TRINITY_DN16118_c1_g1::TRINITY_DN16118_c1_g1_i2::g.62411::m.62411	0	0	0	0	0	0	0	0	0	0	0	0	450030	549400	574950
TRINITY_DN14654_c1_g1::TRINITY_DN14654_c1_g1_i1::g.40157::m.40157	0	0	0	0	0	0	0	0	0	0	0	0	162850	1411400	0
TRINITY_DN16121_c0_g1::TRINITY_DN16121_c0_g1_i2::g.62465::m.62465	0	0	0	0	0	0	0	0	0	0	0	0	380210	734830	458620
TRINITY_DN18674_c2_g2::TRINITY_DN18674_c2_g2_i1::g.104393::m.104393	0	0	0	0	0	0	0	0	0	0	0	0	0	1569200	0
TRINITY_DN15551_c3_g3::TRINITY_DN15551_c3_g3_i8::g.53664::m.53664	0	0	0	0	0	0	0	0	0	0	0	0	655490	261810	650860
TRINITY_DN18806_c2_g1::TRINITY_DN18806_c2_g1_i13::g.106758::m.106758	0	0	0	0	0	0	0	0	0	0	0	0	443580	603930	517400
TRINITY_DN14781_c0_g1::TRINITY_DN14781_c0_g1_i21::g.42142::m.4214	0	0	0	0	124600	0	186730	129040	94635	0	295640	0	193930	349200	188930
TRINITY_DN13427_c0_g3::TRINITY_DN13427_c0_g3_i1::g.23641::m.23641	0	0	0	0	0	0	0	0	0	0	0	0	568620	650190	341760
TRINITY_DN15029_c5_g6::TRINITY_DN15029_c5_g6_i4::g.46001::m.46001	0	71873	0	0	0	0	0	0	0	0	0	0	524400	504160	455980

TRINITY_DN15434_c1_g3::TRINITY_DN15434_c1_g3_i3::g.51817::m.51817	0	0	0	0	0	0	0	0	0	0	0	0	359750	467020	724140
TRINITY_DN17008_c0_g1::TRINITY_DN17008_c0_g1_i2::g.77040::m.77040	0	0	0	103430	0	0	0	0	0	0	574690	814440	0	55868	0
TRINITY_DN17336_c2_g1::TRINITY_DN17336_c2_g1_i3::g.82080::m.82080	0	0	0	0	0	0	0	0	0	0	0	0	322000	616380	607720
TRINITY_DN15690_c0_g1::TRINITY_DN15690_c0_g1_i7::g.55685::m.55685	0	0	0	0	0	0	0	0	0	0	0	0	722500	666620	152610
TRINITY_DN13180_c0_g1::TRINITY_DN13180_c0_g1_i3::g.20757::m.20757	34755	0	29070	28951	0	0	0	0	0	0	238980	0	394320	276030	537030
TRINITY_DN11253_c0_g1::TRINITY_DN11253_c0_g1_i2::g.6760::m.6760	355910	47442	215420	164380	0	0	129420	0	0	0	465220	0	161070	0	0
TRINITY_DN16309_c0_g1::TRINITY_DN16309_c0_g1_i5::g.65915::m.65915	0	0	0	0	0	0	0	0	0	0	0	0	369550	467800	700950
TRINITY_DN11739_c0_g1::TRINITY_DN11739_c0_g1_i1::g.8613::m.8613	0	0	0	0	0	0	0	0	0	0	0	0	206240	499280	831550
TRINITY_DN13614_c0_g1::TRINITY_DN13614_c0_g1_i2::g.26309::m.26309	0	0	0	0	0	0	0	0	0	0	0	0	228070	562310	746760
TRINITY_DN18223_c0_g1::TRINITY_DN18223_c0_g1_i1::g.97248::m.97248	0	0	0	0	0	0	0	0	0	0	0	0	688140	457110	388060
TRINITY_DN19809_c1_g1::TRINITY_DN19809_c1_g1_i1::g.124378::m.124378	0	0	0	0	0	0	0	0	0	0	0	0	454520	604620	467470
TRINITY_DN15338_c3_g1::TRINITY_DN15338_c3_g1_i1::g.50560::m.50560	58647	0	60715	61168	0	0	0	75240	0	0	0	0	774410	266790	228460
TRINITY_DN18884_c1_g1::TRINITY_DN18884_c1_g1_i5::g.108202::m.108202	0	0	0	0	0	0	0	0	0	0	0	0	577040	466150	481820
TRINITY_DN12888_c1_g1::TRINITY_DN12888_c1_g1_i1::g.16988::m.16988	0	0	0	0	0	0	0	0	0	0	0	0	370880	484830	667920
TRINITY_DN18793_c0_g1::TRINITY_DN18793_c0_g1_i11::g.106461::m.106461	0	0	0	0	0	0	0	0	0	0	0	0	384630	842700	295760
TRINITY_DN14198_c0_g1::TRINITY_DN14198_c0_g1_i4::g.33633::m.33633	0	0	0	0	0	0	0	0	0	0	0	0	363610	409520	747810
TRINITY_DN13898_c1_g1::TRINITY_DN13898_c1_g1_i2::g.30051::m.30051	0	0	0	0	0	0	0	0	0	0	0	0	254160	1036000	228320
TRINITY_DN16513_c0_g3::TRINITY_DN16513_c0_g3_i2::g.68923::m.68923	0	0	0	0	0	0	0	0	0	0	0	0	506400	354050	657230
TRINITY_DN19115_c1_g2::TRINITY_DN19115_c1_g2_i10::g.112400::m.112400	0	0	0	0	0	0	0	0	0	0	0	0	167130	448220	900720
TRINITY_DN19612_c0_g2::TRINITY_DN19612_c0_g2_i5::g.120800::m.120800	0	0	0	0	0	0	0	0	0	0	0	0	467940	1046900	0
TRINITY_DN19652_c2_g1::TRINITY_DN19652_c2_g1_i9::g.121472::m.121472	0	0	0	0	0	0	0	0	0	0	0	0	647840	343780	522440

TRINITY_DN15221_c1_g3::TRINITY_DN15221_c1_g3_i1::g.48708::m.48708	86908	0	345200	0	245910	159660	237360	277510	156830	0	0	0	0	0	0
TRINITY_DN17380_c2_g1::TRINITY_DN17380_c2_g1_i4::g.82866::m.82866	0	0	0	0	0	0	0	0	0	0	0	0	488400	289530	728180
TRINITY_DN19589_c2_g2::TRINITY_DN19589_c2_g2_i4::g.120311::m.120311	0	0	0	0	0	0	0	0	0	0	0	0	0	1501500	0
TRINITY_DN12563_c3_g1::TRINITY_DN12563_c3_g1_i1::g.13893::m.13893	0	0	0	0	0	0	0	0	0	0	0	0	479270	383170	625740
TRINITY_DN14756_c11_g3::TRINITY_DN14756_c11_g3_i1::g.41922::m.41922	0	0	0	0	0	0	0	0	0	0	0	0	258850	310310	916960
TRINITY_DN16369_c2_g1::TRINITY_DN16369_c2_g1_i6::g.66520::m.66520	0	0	0	0	0	0	0	0	0	0	0	0	191580	389350	901200
TRINITY_DN14258_c0_g1::TRINITY_DN14258_c0_g1_i5::g.34520::m.34520	0	0	0	0	0	0	0	0	0	0	0	0	678210	517390	284510
TRINITY_DN16789_c2_g5::TRINITY_DN16789_c2_g5_i1::g.73225::m.73225	0	0	0	0	0	0	0	0	0	0	0	0	322180	671720	485560
TRINITY_DN17303_c1_g1::TRINITY_DN17303_c1_g1_i7::g.81652::m.81652	1381200	0	0	0	0	0	0	94469	0	0	0	0	0	0	0
TRINITY_DN19981_c2_g1::TRINITY_DN19981_c2_g1_i2::g.127291::m.127291	201110	0	224100	342570	0	0	0	0	0	0	268020	0	125380	310000	0
TRINITY_DN13121_c2_g1::TRINITY_DN13121_c2_g1_i1::g.20130::m.20130	0	0	0	0	78258	0	61386	0	200840	147430	267680	365520	265300	0	83034
TRINITY_DN17618_c2_g2::TRINITY_DN17618_c2_g2_i9::g.87148::m.87148	0	0	0	0	0	0	0	0	0	0	0	0	370760	709890	387530
TRINITY_DN18372_c2_g8::TRINITY_DN18372_c2_g8_i1::g.99519::m.99519	0	0	0	0	0	0	0	0	0	0	0	0	298670	734520	434200
TRINITY_DN18320_c3_g3::TRINITY_DN18320_c3_g3_i3::g.98813::m.98813	0	0	0	0	0	0	0	0	0	0	0	0	261350	774220	429970
TRINITY_DN15818_c1_g1::TRINITY_DN15818_c1_g1_i7::g.57419::m.57419	0	0	0	0	0	0	0	0	0	0	0	0	568970	533680	358210
TRINITY_DN17545_c0_g1::TRINITY_DN17545_c0_g1_i11::g.84946::m.84946	0	0	0	0	0	0	0	0	0	0	0	0	343950	485600	631090
TRINITY_DN18096_c1_g1::TRINITY_DN18096_c1_g1_i2::g.95119::m.95119	0	0	0	0	0	0	0	0	0	0	0	0	425120	577310	457330
TRINITY_DN13342_c2_g1::TRINITY_DN13342_c2_g1_i2::g.22558::m.22558	0	0	0	0	0	0	0	0	0	0	0	0	0	829090	630440
TRINITY_DN16074_c1_g1::TRINITY_DN16074_c1_g1_i7::g.61513::m.61513	0	0	63474	0	0	0	0	0	0	0	369200	357750	0	426510	241700
TRINITY_DN12750_c0_g2::TRINITY_DN12750_c0_g2_i1::g.15503::m.15503	0	0	0	0	200580	110350	232240	360350	0	0	554460	0	0	0	0

TRINITY_DN19511_c1_g1::TRINITY_DN19511_c1_g1_i3::g.119032::m.1190	0	0	0	0	0	0	0	0	0	0	0	0	213590	534010	707380
TRINITY_DN13260_c0_g2::TRINITY_DN13260_c0_g2_i1::g.21634::m.21634	0	0	0	0	0	0	0	0	0	0	0	0	543880	656610	251610
TRINITY_DN19385_c2_g2::TRINITY_DN19385_c2_g2_i1::g.117065::m.117065	46721	0	52728	46764	0	0	0	0	0	0	0	0	0	0	1300800
TRINITY_DN14374_c0_g1::TRINITY_DN14374_c0_g1_i4::g.36023::m.36023	93504	31556	0	312020	0	0	0	0	0	0	213900	247740	110600	0	436950
TRINITY_DN14718_c0_g3::TRINITY_DN14718_c0_g3_i4::g.41295::m.41295	0	0	0	0	0	221980	568310	0	0	538610	0	0	113960	0	0
TRINITY_DN14491_c1_g3::TRINITY_DN14491_c1_g3_i2::g.37906::m.37906	48409	0	0	0	109940	0	0	0	0	310950	0	657480	164470	0	151450
TRINITY_DN18652_c1_g2::TRINITY_DN18652_c1_g2_i5::g.104071::m.104071	0	0	0	0	0	0	129340	0	391840	0	489680	429320	0	0	0
TRINITY_DN17169_c0_g2::TRINITY_DN17169_c0_g2_i1::g.79657::m.79657	137200	0	134510	0	0	0	0	0	0	0	694920	0	158410	165510	148830
TRINITY_DN17784_c0_g1::TRINITY_DN17784_c0_g1_i3::g.89656::m.89656	0	0	0	0	0	0	0	0	0	0	0	0	301210	685050	452250
TRINITY_DN15619_c2_g2::TRINITY_DN15619_c2_g2_i4::g.54476::m.54476	0	0	0	0	0	0	0	0	0	0	0	0	0	390110	1042000
TRINITY_DN15799_c0_g1::TRINITY_DN15799_c0_g1_i8::g.55961::m.55961	0	0	340420	225900	0	0	147200	0	0	0	715280	0	0	0	0
TRINITY_DN18926_c2_g1::TRINITY_DN18926_c2_g1_i1::g.109132::m.109132	0	0	0	0	0	0	0	0	0	0	0	0	769460	438520	218190
TRINITY_DN15946_c1_g1::TRINITY_DN15946_c1_g1_i2::g.59352::m.59352	0	0	0	0	0	0	0	0	0	0	0	0	703560	460950	260280
TRINITY_DN18496_c3_g1::TRINITY_DN18496_c3_g1_i9::g.99949::m.99949	0	0	0	0	78145	0	0	0	0	0	0	0	498640	238860	607710
TRINITY_DN11371_c0_g2::TRINITY_DN11371_c0_g2_i2::g.7148::m.7148	0	33977	170620	155890	0	0	0	0	0	0	827560	0	0	111240	123710
TRINITY_DN11955_c0_g2::TRINITY_DN11955_c0_g2_i1::g.9673::m.9673	0	0	0	0	0	0	0	0	0	0	0	0	617750	803620	0
TRINITY_DN12552_c0_g1::TRINITY_DN12552_c0_g1_i2::g.13425::m.13425	165790	77251	116350	0	0	0	0	0	269110	0	231470	558630	0	0	0
TRINITY_DN19080_c0_g2::TRINITY_DN19080_c0_g2_i7::g.111803::m.111803	0	0	0	0	0	0	0	0	0	0	0	0	279550	948390	189050
TRINITY_DN19854_c2_g2::TRINITY_DN19854_c2_g2_i4::g.124562::m.124562	0	0	0	0	0	0	0	0	0	0	0	0	425190	552740	439050
TRINITY_DN19442_c0_g2::TRINITY_DN19442_c0_g2_i3::g.118018::m.118018	0	0	0	0	0	0	0	0	0	0	0	0	446980	363580	601410

TRINITY_DN18350_c0_g2::TRINITY_DN18350_c0_g2_i2::g.99155::m.99155	0	0	0	0	0	0	0	0	0	0	0	0	360830	381610	666840
TRINITY_DN12711_c1_g1::TRINITY_DN12711_c1_g1_i4::g.15231::m.15231	0	0	0	0	0	0	0	0	0	0	0	0	496020	806320	104550
TRINITY_DN14491_c1_g5::TRINITY_DN14491_c1_g5_i7::g.37912::m.37912	155880	0	164940	199740	339240	0	0	0	0	0	0	0	167270	197680	175760
TRINITY_DN18628_c2_g1::TRINITY_DN18628_c2_g1_i28::g.103627::m.103627	0	0	0	0	0	0	0	0	0	0	0	0	218660	525360	654680
TRINITY_DN14281_c0_g1::TRINITY_DN14281_c0_g1_i1::g.34852::m.34852	0	0	0	0	0	0	0	0	0	0	0	0	330830	1067400	0
TRINITY_DN16267_c0_g1::TRINITY_DN16267_c0_g1_i3::g.64801::m.64801	0	0	0	0	0	0	0	0	0	0	0	0	347330	536180	513530
TRINITY_DN14107_c0_g1::TRINITY_DN14107_c0_g1_i1::g.32583::m.32583	0	50541	154730	162230	168290	0	0	207360	0	0	0	0	87843	434830	130210
TRINITY_DN18942_c3_g3::TRINITY_DN18942_c3_g3_i8::g.109006::m.109006	0	0	0	0	0	0	0	0	0	80883	0	0	525120	668540	121210
TRINITY_DN15316_c4_g2::TRINITY_DN15316_c4_g2_i4::g.50087::m.50087	0	0	0	0	0	0	0	0	0	0	0	0	1391700	0	0
TRINITY_DN18397_c1_g1::TRINITY_DN18397_c1_g1_i2::g.99905::m.99905	0	0	0	0	0	0	0	0	0	0	0	0	0	527260	864280
TRINITY_DN14957_c1_g1::TRINITY_DN14957_c1_g1_i3::g.44723::m.44723	0	0	0	0	0	0	0	0	0	0	0	0	374710	456270	558730
TRINITY_DN5432_c0_g1::TRINITY_DN5432_c0_g1_i1::g.1343::m.1343	0	0	0	0	0	0	0	0	0	0	0	0	146710	396270	845860
TRINITY_DN10737_c0_g1::TRINITY_DN10737_c0_g1_i1::g.5423::m.5423	143810	50720	132020	77922	251530	0	0	293900	0	0	0	438330	0	0	0
TRINITY_DN18886_c3_g1::TRINITY_DN18886_c3_g1_i2::g.108068::m.108068	0	0	0	0	0	0	134920	0	0	0	201190	307870	0	357100	384200
TRINITY_DN19870_c1_g2::TRINITY_DN19870_c1_g2_i5::g.124748::m.124748	0	0	0	0	0	0	0	0	0	0	0	0	308300	566720	507660
TRINITY_DN16270_c0_g2::TRINITY_DN16270_c0_g2_i15::g.64899::m.64899	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1380600
TRINITY_DN14538_c2_g2::TRINITY_DN14538_c2_g2_i3::g.38504::m.38504	0	0	0	0	0	0	0	0	0	0	0	0	275490	0	1103500
TRINITY_DN18432_c0_g1::TRINITY_DN18432_c0_g1_i9::g.99987::m.99987	0	197410	0	427760	0	0	0	0	0	0	0	0	341400	129790	276430
TRINITY_DN14697_c1_g1::TRINITY_DN14697_c1_g1_i3::g.40725::m.40725	0	0	0	0	0	0	0	0	0	0	0	0	360770	419720	591800
TRINITY_DN12130_c0_g1::TRINITY_DN12130_c0_g1_i1::g.10682::m.10682	0	0	0	0	0	0	0	0	0	0	0	0	1075600	295830	0
TRINITY_DN16549_c1_g2::TRINITY_DN16549_c1_g2_i1::g.69658::m.69658	0	0	0	0	0	0	0	0	0	0	0	0	535440	465350	366090

TRINITY_DN13928_c0_g1::TRINITY_DN13928_c0_g1_i1::g.30448::m.30448	0	0	0	0	0	0	0	0	0	0	0	0	452610	535880	378060
TRINITY_DN13623_c1_g1::TRINITY_DN13623_c1_g1_i6::g.26584::m.26584	0	0	0	0	0	0	0	0	0	0	0	0	403910	512650	448640
TRINITY_DN15579_c1_g3::TRINITY_DN15579_c1_g3_i1::g.54029::m.54029	0	0	0	0	0	0	0	0	0	0	0	0	523730	422890	416120
TRINITY_DN17845_c1_g3::TRINITY_DN17845_c1_g3_i3::g.90638::m.90638	96672	0	85003	0	125500	0	175730	111580	337630	0	156890	272960	0	0	0
TRINITY_DN18905_c1_g2::TRINITY_DN18905_c1_g2_i9::g.108635::m.108635	272210	77390	869560	142230	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN16321_c0_g3::TRINITY_DN16321_c0_g3_i5::g.65822::m.65822	0	0	0	0	0	0	0	0	0	0	0	0	395680	286910	673450
TRINITY_DN18561_c0_g1::TRINITY_DN18561_c0_g1_i3::g.102624::m.102624	0	0	0	0	0	0	0	0	0	0	0	0	646160	388440	320200
TRINITY_DN13727_c0_g2::TRINITY_DN13727_c0_g2_i11::g.27681::m.27681	8625,2	0	0	0	0	0	0	0	352440	0	374250	0	0	254330	364320
TRINITY_DN13477_c2_g3::TRINITY_DN13477_c2_g3_i1::g.24414::m.24414	43594	18944	0	64564	131850	0	0	0	0	0	0	0	0	600860	493810
TRINITY_DN11771_c0_g1::TRINITY_DN11771_c0_g1_i2::g.8609::m.8609	0	0	0	0	0	0	0	0	0	0	0	0	156830	636330	559220
TRINITY_DN11029_c0_g1::TRINITY_DN11029_c0_g1_i1::g.6154::m.6154	0	0	0	0	0	0	0	0	0	0	0	0	388220	633750	330000
TRINITY_DN19209_c0_g1::TRINITY_DN19209_c0_g1_i7::g.114040::m.114040	178230	0	0	0	0	0	0	0	0	0	0	0	131540	506470	534670
TRINITY_DN15323_c1_g4::TRINITY_DN15323_c1_g4_i7::g.50170::m.50170	0	0	0	0	0	0	0	0	0	0	0	0	0	540930	809240
TRINITY_DN14645_c3_g1::TRINITY_DN14645_c3_g1_i7::g.39449::m.39449	0	0	0	0	0	0	0	0	0	0	0	0	335080	493620	514920
TRINITY_DN14335_c0_g1::TRINITY_DN14335_c0_g1_i7::g.35543::m.35543	0	0	0	0	0	0	0	0	0	0	0	0	528780	451500	363040
TRINITY_DN17475_c1_g1::TRINITY_DN17475_c1_g1_i10::g.84374::m.84374	0	0	0	0	0	0	0	0	0	0	0	0	527860	347080	464000
TRINITY_DN18714_c0_g3::TRINITY_DN18714_c0_g3_i1::g.105033::m.105033	0	0	0	0	0	0	0	0	0	0	0	0	241110	294710	801990
TRINITY_DN18972_c2_g2::TRINITY_DN18972_c2_g2_i2::g.109605::m.109605	0	0	0	0	0	0	0	0	0	0	0	0	190790	197490	948510
TRINITY_DN12403_c0_g1::TRINITY_DN12403_c0_g1_i5::g.12601::m.12601	139600	32100	145870	85669	0	0	0	0	0	0	0	0	932880	0	0
TRINITY_DN11347_c0_g1::TRINITY_DN11347_c0_g1_i2::g.7021::m.7021	0	0	0	0	0	0	0	0	0	0	0	0	457390	453770	422770

TRINITY_DN18196_c4_g4::TRINITY_DN18196_c4_g4_i1::g.96720::m.96720	0	0	0	0	0	0	0	0	0	0	0	0	646540	0	675810
TRINITY_DN19648_c4_g4::TRINITY_DN19648_c4_g4_i4::g.120655::m.120655	0	0	0	0	0	0	0	0	0	0	0	0	100380	729320	492610
TRINITY_DN18301_c0_g2::TRINITY_DN18301_c0_g2_i7::g.97543::m.97543	0	0	0	0	0	0	0	0	0	0	0	0	400730	451080	470280
TRINITY_DN15444_c2_g2::TRINITY_DN15444_c2_g2_i4::g.52039::m.52039	0	58333	92524	128040	275480	0	0	0	0	0	0	0	377640	0	389510
TRINITY_DN19535_c3_g1::TRINITY_DN19535_c3_g1_i2::g.119402::m.119402	0	0	0	0	0	0	0	0	0	0	0	0	0	589470	727070
TRINITY_DN12020_c1_g1::TRINITY_DN12020_c1_g1_i2::g.10043::m.10043	0	0	0	0	0	0	358440	134720	0	0	0	358100	153760	156120	153450
TRINITY_DN17610_c1_g1::TRINITY_DN17610_c1_g1_i7::g.87051::m.87051	0	0	0	0	0	0	0	0	0	0	0	0	430420	515640	368490
TRINITY_DN18503_c1_g1::TRINITY_DN18503_c1_g1_i3::g.101658::m.101658	0	0	0	0	414810	0	0	310240	191090	0	0	133950	0	146000	117800
TRINITY_DN17513_c0_g1::TRINITY_DN17513_c0_g1_i8::g.85061::m.85061	0	0	0	0	0	0	0	0	0	0	0	0	380390	464630	465280
TRINITY_DN18932_c2_g2::TRINITY_DN18932_c2_g2_i2::g.109083::m.109083	77798	0	83382	76702	0	0	0	0	404510	0	0	0	0	345560	316220
TRINITY_DN18021_c3_g2::TRINITY_DN18021_c3_g2_i4::g.93827::m.93827	0	0	0	0	0	0	0	0	0	0	0	0	463670	427150	411060
TRINITY_DN13471_c1_g1::TRINITY_DN13471_c1_g1_i4::g.24277::m.24277	0	0	0	0	0	0	0	0	0	0	0	0	431470	464000	405690
TRINITY_DN14922_c2_g1::TRINITY_DN14922_c2_g1_i5::g.44553::m.44553	0	0	0	0	0	0	0	0	0	0	0	0	289040	337600	673570
TRINITY_DN15594_c4_g1::TRINITY_DN15594_c4_g1_i1::g.54180::m.54180	0	0	0	0	0	0	0	0	0	0	0	0	470100	260960	568830
TRINITY_DN11209_c0_g1::TRINITY_DN11209_c0_g1_i1::g.6616::m.6616	169530	0	174620	138080	0	0	0	0	0	0	0	0	602970	214050	0
TRINITY_DN18631_c1_g1::TRINITY_DN18631_c1_g1_i1::g.103584::m.103584	0	0	0	0	0	0	0	0	0	0	0	0	422200	468930	405410
TRINITY_DN17980_c0_g1::TRINITY_DN17980_c0_g1_i2::g.92937::m.92937	0	0	0	0	0	0	0	0	0	0	0	0	632020	658260	0
TRINITY_DN18446_c0_g1::TRINITY_DN18446_c0_g1_i3::g.100648::m.100648	0	0	0	0	0	0	0	0	0	0	0	0	247270	365090	677180
TRINITY_DN19548_c1_g1::TRINITY_DN19548_c1_g1_i5::g.119761::m.1197	0	0	0	0	0	0	0	0	0	0	0	0	678320	458760	151230
TRINITY_DN16896_c1_g1::TRINITY_DN16896_c1_g1_i19::g.75135::m.7513	16162	0	0	0	170690	0	0	0	0	0	0	0	505600	0	593240
TRINITY_DN14204_c1_g1::TRINITY_DN14204_c1_g1_i2::g.33927::m.33927	0	0	0	0	0	0	0	0	0	0	0	0	371190	493240	420140

TRINITY_DN19434_c0_g1::TRINITY_DN19434_c0_g1_i3::g.117932::m.117932	0	0	0	0	222580	72692	305140	0	101700	0	0	0	268600	166260	146060
TRINITY_DN17973_c0_g1::TRINITY_DN17973_c0_g1_i1::g.92481::m.92481	138110	70461	0	154180	0	0	0	0	0	118470	0	0	0	0	801380
TRINITY_DN18833_c4_g2::TRINITY_DN18833_c4_g2_i4::g.107207::m.107207	79051	51597	148400	89028	0	0	0	0	0	182990	342740	310080	0	0	77666
TRINITY_DN16544_c0_g2::TRINITY_DN16544_c0_g2_i7::g.68626::m.68626	0	0	0	0	0	0	0	0	0	0	0	0	168950	917260	193850
TRINITY_DN19860_c5_g1::TRINITY_DN19860_c5_g1_i1::g.124725::m.124725	0	0	0	0	0	0	0	0	0	0	0	0	0	696830	583260
TRINITY_DN48442_c0_g1::TRINITY_DN48442_c0_g1_i1::g.132681::m.132681	0	0	0	0	0	0	0	0	0	0	0	0	473960	376980	422390
TRINITY_DN19061_c2_g6::TRINITY_DN19061_c2_g6_i3::g.111201::m.111201	0	0	0	0	0	0	0	0	0	0	0	0	590040	678140	0
TRINITY_DN14323_c2_g3::TRINITY_DN14323_c2_g3_i2::g.35593::m.35593	0	0	0	0	0	0	0	0	0	0	0	0	378260	386280	495980
TRINITY_DN19440_c4_g2::TRINITY_DN19440_c4_g2_i10::g.117992::m.117992	0	0	0	0	0	0	171950	54571	0	0	0	0	274420	472830	281860
TRINITY_DN18371_c0_g1::TRINITY_DN18371_c0_g1_i2::g.99819::m.99819	0	0	0	0	0	0	0	0	0	0	0	0	477460	0	778000
TRINITY_DN14419_c1_g1::TRINITY_DN14419_c1_g1_i6::g.36874::m.36874	0	0	0	0	0	27682	0	0	201590	0	0	0	393990	472020	158850
TRINITY_DN13980_c0_g1::TRINITY_DN13980_c0_g1_i1::g.30892::m.30892	0	0	0	0	0	0	0	0	0	0	0	0	115100	421670	715120
TRINITY_DN18731_c0_g5::TRINITY_DN18731_c0_g5_i1::g.105388::m.105388	0	0	0	0	0	0	0	0	0	0	0	0	420470	828340	0
TRINITY_DN13791_c2_g2::TRINITY_DN13791_c2_g2_i3::g.28238::m.28238	0	0	0	0	0	0	0	0	0	0	0	0	592140	346120	307480
TRINITY_DN15442_c0_g2::TRINITY_DN15442_c0_g2_i1::g.51251::m.51251	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1241800
TRINITY_DN1265_c0_g1::TRINITY_DN1265_c0_g1_i1::g.324::m.324	0	0	0	0	0	0	0	0	0	0	0	0	469340	456850	315150
TRINITY_DN14475_c2_g1::TRINITY_DN14475_c2_g1_i7::g.36756::m.36756	0	0	0	0	0	0	0	0	0	0	0	0	367430	629120	244140
TRINITY_DN16138_c0_g1::TRINITY_DN16138_c0_g1_i2::g.62708::m.62708	0	0	0	0	0	0	0	0	0	0	0	0	93572	908160	238590
TRINITY_DN18532_c1_g1::TRINITY_DN18532_c1_g1_i2::g.102269::m.102269	0	0	0	0	0	0	0	0	0	0	0	0	408690	152700	678360
TRINITY_DN18494_c1_g1::TRINITY_DN18494_c1_g1_i7::g.101464::m.101464	0	0	0	0	0	0	0	0	0	0	0	0	292770	0	945920

TRINITY_DN13527_c0_g1::TRINITY_DN13527_c0_g1_i14::g.25011::m.25011	0	0	0	0	0	0	0	0	0	0	0	0	326770	527580	382690
TRINITY_DN19343_c7_g5::TRINITY_DN19343_c7_g5_i1::g.116417::m.116417	182640	0	196750	165570	114800	0	0	0	0	0	575350	0	0	0	0
TRINITY_DN17435_c0_g1::TRINITY_DN17435_c0_g1_i2::g.83592::m.83592	0	0	0	0	0	0	0	0	0	0	0	0	361830	869730	0
TRINITY_DN12632_c0_g1::TRINITY_DN12632_c0_g1_i1::g.14398::m.14398	0	0	0	0	0	0	0	0	0	0	0	0	86079	604330	540690
TRINITY_DN13052_c1_g1::TRINITY_DN13052_c1_g1_i8::g.19267::m.19267	0	0	0	0	0	0	0	0	0	0	0	0	331550	0	898190
TRINITY_DN16618_c2_g1::TRINITY_DN16618_c2_g1_i4::g.70494::m.70494	0	0	0	0	0	0	0	0	0	0	0	141580	222120	259410	595700
TRINITY_DN17627_c2_g1::TRINITY_DN17627_c2_g1_i6::g.87313::m.87313	0	0	0	0	0	0	0	0	0	0	0	0	264200	474610	472230
TRINITY_DN14266_c0_g5::TRINITY_DN14266_c0_g5_i1::g.34758::m.34758	0	0	0	0	0	0	0	0	0	0	0	0	533280	509040	168100
TRINITY_DN15019_c3_g2::TRINITY_DN15019_c3_g2_i1::g.45833::m.45833	1208400	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN18255_c0_g1::TRINITY_DN18255_c0_g1_i22::g.97730::m.97730	0	0	0	0	0	0	0	0	0	0	0	0	363340	527810	314740
TRINITY_DN19124_c2_g3::TRINITY_DN19124_c2_g3_i2::g.112438::m.112438	0	0	0	0	0	0	0	0	0	0	0	0	95087	405950	702940
TRINITY_DN13398_c7_g1::TRINITY_DN13398_c7_g1_i2::g.23298::m.23298	23447	0	30945	0	156810	0	203060	149390	216960	0	0	305550	114160	0	0
TRINITY_DN18939_c0_g2::TRINITY_DN18939_c0_g2_i7::g.109183::m.109183	121010	45088	98479	91896	0	0	245330	0	0	0	0	598210	0	0	0
TRINITY_DN13383_c1_g4::TRINITY_DN13383_c1_g4_i2::g.23048::m.23048	0	0	0	0	0	0	0	0	0	0	0	0	300980	585350	313060
TRINITY_DN15405_c3_g1::TRINITY_DN15405_c3_g1_i6::g.51555::m.51555	0	0	0	0	0	0	0	0	0	0	0	0	546870	0	651150
TRINITY_DN12135_c0_g1::TRINITY_DN12135_c0_g1_i2::g.10684::m.10684	107950	70943	159490	109340	0	0	0	0	271020	191160	284050	0	0	0	0
TRINITY_DN17356_c4_g2::TRINITY_DN17356_c4_g2_i4::g.82383::m.82383	0	0	0	0	0	0	0	0	0	0	0	0	551540	640180	0
TRINITY_DN17524_c0_g2::TRINITY_DN17524_c0_g2_i3::g.85311::m.85311	0	0	0	0	0	0	225260	157250	489720	0	0	0	139200	0	178870
TRINITY_DN11973_c1_g1::TRINITY_DN11973_c1_g1_i7::g.9759::m.9759	104440	0	43295	182850	0	0	0	55395	0	0	0	140660	103940	431940	122610
TRINITY_DN15456_c0_g1::TRINITY_DN15456_c0_g1_i1::g.52131::m.52131	146580	63628	174900	204440	0	0	0	0	0	0	0	0	173000	169880	252010

TRINITY_DN15793_c0_g1::TRINITY_DN15793_c0_g1_i1::g.57091::m.57091	0	0	0	0	0	0	0	0	0	0	0	0	396310	434140	352640
TRINITY_DN14209_c0_g1::TRINITY_DN14209_c0_g1_i2::g.34018::m.34018	0	0	0	0	0	0	0	0	0	0	0	0	169350	224160	787270
TRINITY_DN14887_c2_g4::TRINITY_DN14887_c2_g4_i1::g.43866::m.43866	0	0	0	0	0	0	0	0	0	0	0	0	254240	252380	671620
TRINITY_DN18372_c2_g2::TRINITY_DN18372_c2_g2_i3::g.99514::m.99514	0	0	0	0	0	0	0	0	0	0	0	0	475950	354080	347580
TRINITY_DN16028_c0_g1::TRINITY_DN16028_c0_g1_i7::g.60828::m.60828	0	0	0	0	0	0	0	0	0	0	0	0	316930	367980	491430
TRINITY_DN12857_c0_g1::TRINITY_DN12857_c0_g1_i2::g.16763::m.16763	0	0	0	0	0	0	0	0	0	0	0	0	404270	771860	0
TRINITY_DN18741_c1_g1::TRINITY_DN18741_c1_g1_i9::g.105752::m.105752	104920	0	111660	172180	143990	0	178750	0	0	0	0	181520	115600	0	166600
TRINITY_DN18860_c2_g4::TRINITY_DN18860_c2_g4_i2::g.107536::m.107536	0	0	0	0	0	0	0	0	0	0	0	0	478020	261680	435330
TRINITY_DN12789_c1_g2::TRINITY_DN12789_c1_g2_i12::g.15958::m.15958	220900	0	141350	130990	243300	115400	320280	0	0	0	0	0	0	0	0
TRINITY_DN19136_c0_g1::TRINITY_DN19136_c0_g1_i3::g.112661::m.1126	0	0	0	0	0	0	0	0	0	0	0	0	370090	457700	344390
TRINITY_DN16675_c0_g2::TRINITY_DN16675_c0_g2_i3::g.71545::m.71545	0	0	0	0	0	0	0	0	0	0	0	0	373460	376000	421800
TRINITY_DN19779_c3_g1::TRINITY_DN19779_c3_g1_i9::g.123559::m.123559	0	0	0	0	0	0	0	0	0	0	0	0	468270	310300	389280
TRINITY_DN11951_c0_g1::TRINITY_DN11951_c0_g1_i4::g.9610::m.9610	36361	0	0	0	0	0	0	0	0	0	0	0	220880	690220	219420
TRINITY_DN17944_c2_g2::TRINITY_DN17944_c2_g2_i3::g.92569::m.92569	0	0	0	0	0	0	0	0	0	0	0	0	451360	222350	491300
TRINITY_DN17545_c0_g1::TRINITY_DN17545_c0_g1_i1::g.84935::m.84935	0	0	0	0	0	0	0	0	0	0	0	0	496960	174130	492500
TRINITY_DN14785_c0_g1::TRINITY_DN14785_c0_g1_i6::g.42288::m.42288	0	0	0	0	0	0	0	0	0	0	0	0	344720	381230	437540
TRINITY_DN10853_c0_g1::TRINITY_DN10853_c0_g1_i1::g.5658::m.5658	187350	0	0	0	0	0	0	0	256860	0	366270	351090	0	0	0
TRINITY_DN19439_c3_g1::TRINITY_DN19439_c3_g1_i7::g.118339::m.118339	0	0	0	0	0	0	0	0	0	0	0	0	1159100	0	0
TRINITY_DN19401_c0_g3::TRINITY_DN19401_c0_g3_i5::g.116386::m.116386	0	0	0	0	0	0	0	0	113950	0	0	0	447980	596890	0

TRINITY_DN13193_c0_g2::TRINITY_DN13193_c0_g2_i7::g.20882::m.20882	0	0	0	0	0	0	0	0	0	0	0	0	70659	514310	571950
TRINITY_DN16102_c2_g2::TRINITY_DN16102_c2_g2_i1::g.62195::m.62195	45874	0	0	0	0	0	0	0	0	0	0	0	0	1108700	0
TRINITY_DN17099_c3_g2::TRINITY_DN17099_c3_g2_i2::g.76778::m.76778	0	0	0	0	0	0	0	0	0	0	0	0	420000	564740	165470
TRINITY_DN14038_c1_g1::TRINITY_DN14038_c1_g1_i3::g.31643::m.31643	0	0	75030	74233	0	0	0	0	0	0	0	0	826170	82245	91500
TRINITY_DN16298_c0_g1::TRINITY_DN16298_c0_g1_i6::g.65227::m.65227	0	0	0	0	0	0	0	0	0	0	0	0	523750	624900	0
TRINITY_DN16403_c4_g2::TRINITY_DN16403_c4_g2_i2::g.67059::m.67059	0	0	0	0	0	0	0	0	0	0	0	0	408180	416830	323570
TRINITY_DN19748_c4_g1::TRINITY_DN19748_c4_g1_i8::g.123188::m.123188	0	0	0	0	0	0	0	0	0	0	0	0	307380	209900	629750
TRINITY_DN16008_c3_g2::TRINITY_DN16008_c3_g2_i3::g.60431::m.60431	0	0	0	0	0	0	0	0	0	0	0	0	447570	248890	443750
TRINITY_DN15365_c0_g2::TRINITY_DN15365_c0_g2_i4::g.50831::m.50831	0	0	0	0	0	0	0	0	0	0	0	0	270840	388180	481050
TRINITY_DN16706_c0_g2::TRINITY_DN16706_c0_g2_i5::g.72057::m.72057	0	0	0	0	0	0	0	0	0	0	0	0	370640	336240	431660
TRINITY_DN12693_c0_g1::TRINITY_DN12693_c0_g1_i1::g.14939::m.14939	0	0	158110	150160	0	0	0	0	0	0	0	0	313860	515620	0
TRINITY_DN13827_c1_g1::TRINITY_DN13827_c1_g1_i4::g.28842::m.28842	0	0	0	0	0	0	0	0	0	0	0	0	439890	279500	415140
TRINITY_DN11389_c0_g1::TRINITY_DN11389_c0_g1_i1::g.7193::m.7193	0	0	0	0	0	0	89965	406350	0	0	215130	211070	0	102330	109490
TRINITY_DN12755_c3_g1::TRINITY_DN12755_c3_g1_i1::g.16006::m.16006	164200	0	69002	0	195420	0	0	0	0	0	388500	315860	0	0	0
TRINITY_DN13006_c0_g1::TRINITY_DN13006_c0_g1_i3::g.18571::m.18571	0	0	0	0	0	0	0	0	0	0	0	0	553970	576290	0
TRINITY_DN31964_c0_g1::TRINITY_DN31964_c0_g1_i1::g.130316::m.130316	496160	0	323480	0	0	0	0	305880	0	0	0	0	0	0	0
TRINITY_DN10036_c0_g1::TRINITY_DN10036_c0_g1_i2::g.4202::m.4202	0	0	0	0	259110	114160	326010	226090	0	0	0	0	0	199890	0
TRINITY_DN17508_c5_g2::TRINITY_DN17508_c5_g2_i5::g.85417::m.85417	166810	53290	159210	123610	196730	0	232000	192530	0	0	0	0	0	0	0
TRINITY_DN19723_c2_g3::TRINITY_DN19723_c2_g3_i8::g.122861::m.122861	0	0	0	0	288040	0	0	174040	0	0	0	0	0	660330	0
TRINITY_DN12524_c0_g1::TRINITY_DN12524_c0_g1_i3::g.13484::m.13484	0	0	0	0	0	0	0	0	0	0	0	0	329280	362510	430240

TRINITY_DN18436_c0_g2::TRINITY_DN18436_c0_g2_i4::g.100110::m.100110	0	0	0	0	0	0	0	0	0	0	0	0	303790	154250	661290
TRINITY_DN12307_c0_g1::TRINITY_DN12307_c0_g1_i3::g.11724::m.11724	0	0	0	0	0	0	0	0	0	0	0	0	483460	0	630540
TRINITY_DN13767_c0_g1::TRINITY_DN13767_c0_g1_i2::g.28089::m.28089	0	0	0	0	0	0	0	0	0	0	0	0	106600	405510	599290
TRINITY_DN19009_c0_g1::TRINITY_DN19009_c0_g1_i8::g.110506::m.110506	0	0	0	0	0	0	0	0	0	0	0	0	422000	0	689300
TRINITY_DN17898_c0_g1::TRINITY_DN17898_c0_g1_i6::g.91458::m.91458	0	0	0	0	0	0	0	78997	0	0	0	0	81072	355320	595740
TRINITY_DN11577_c0_g1::TRINITY_DN11577_c0_g1_i3::g.7931::m.7931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1108300
TRINITY_DN17836_c0_g3::TRINITY_DN17836_c0_g3_i4::g.90474::m.90474	0	0	0	0	0	0	0	0	0	0	0	0	269830	360410	477580
TRINITY_DN19582_c3_g2::TRINITY_DN19582_c3_g2_i4::g.120114::m.120114	0	0	0	0	232070	0	632840	0	0	0	0	0	0	0	241860
TRINITY_DN15102_c1_g3::TRINITY_DN15102_c1_g3_i1::g.46949::m.46949	0	0	0	0	0	0	0	0	0	0	0	0	469570	328140	308980
TRINITY_DN18657_c1_g1::TRINITY_DN18657_c1_g1_i4::g.104087::m.104087	0	0	0	0	0	0	0	0	0	0	0	0	523010	0	582710
TRINITY_DN11984_c0_g1::TRINITY_DN11984_c0_g1_i17::g.9822::m.9822	0	0	0	0	0	0	0	0	0	0	0	0	225700	433070	446100
TRINITY_DN13083_c4_g1::TRINITY_DN13083_c4_g1_i1::g.19609::m.19609	0	0	0	0	0	145080	0	221390	298290	0	440130	0	0	0	0
TRINITY_DN11520_c0_g2::TRINITY_DN11520_c0_g2_i2::g.7719::m.7719	0	0	0	0	0	0	0	0	0	0	0	0	374730	0	726130
TRINITY_DN11695_c0_g2::TRINITY_DN11695_c0_g2_i5::g.8192::m.8192	0	0	0	0	0	0	0	0	0	0	0	0	236080	508900	354990
TRINITY_DN17518_c0_g2::TRINITY_DN17518_c0_g2_i4::g.85745::m.85745	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1099000
TRINITY_DN15614_c2_g1::TRINITY_DN15614_c2_g1_i2::g.54750::m.54750	0	0	0	0	0	0	0	0	0	0	0	1098600	0	0	0
TRINITY_DN17279_c2_g2::TRINITY_DN17279_c2_g2_i30::g.80027::m.80027	0	0	0	0	0	0	0	0	0	0	0	0	252380	438020	408110
TRINITY_DN12358_c0_g1::TRINITY_DN12358_c0_g1_i4::g.12129::m.12129	0	0	66979	72349	0	0	0	0	0	0	0	0	308820	221080	428230
TRINITY_DN14089_c0_g1::TRINITY_DN14089_c0_g1_i1::g.32223::m.32223	93476	0	90897	97217	0	0	0	0	0	0	0	0	0	808130	0
TRINITY_DN13617_c1_g1::TRINITY_DN13617_c1_g1_i9::g.26343::m.26343	0	0	0	0	129240	0	385390	342580	0	0	0	0	0	0	229760
TRINITY_DN12509_c0_g1::TRINITY_DN12509_c0_g1_i1::g.13435::m.13435	0	0	0	0	0	0	0	0	0	0	0	0	602840	118960	364280

TRINITY_DN20017_c0_g1::TRINITY_DN20017_c0_g1_i1::g.127859::m.127859	0	0	0	0	0	0	0	0	0	0	0	0	0	540980	542470
TRINITY_DN15264_c3_g1::TRINITY_DN15264_c3_g1_i8::g.49356::m.49356	0	0	0	0	0	0	0	0	0	0	0	0	325840	422970	330640
TRINITY_DN19396_c1_g2::TRINITY_DN19396_c1_g2_i11::g.116356::m.116356	43758	0	0	0	0	0	0	0	0	0	0	0	201580	157940	674000
TRINITY_DN13077_c0_g1::TRINITY_DN13077_c0_g1_i9::g.19580::m.19580	0	0	0	0	0	0	0	0	0	0	0	0	223340	474230	379130
TRINITY_DN19577_c3_g1::TRINITY_DN19577_c3_g1_i6::g.120109::m.120109	0	0	0	0	0	0	0	0	0	0	0	0	348400	412150	314870
TRINITY_DN10714_c0_g1::TRINITY_DN10714_c0_g1_i4::g.5392::m.5392	0	0	0	0	0	0	0	0	0	0	0	0	282890	439020	351200
TRINITY_DN13818_c0_g2::TRINITY_DN13818_c0_g2_i15::g.28994::m.28994	0	0	0	0	0	0	0	0	0	77114	0	0	498510	0	496940
TRINITY_DN18434_c0_g1::TRINITY_DN18434_c0_g1_i17::g.100395::m.100395	61606	21071	67539	46629	0	0	120560	0	0	0	348390	0	182090	221170	0
TRINITY_DN14145_c0_g4::TRINITY_DN14145_c0_g4_i3::g.33080::m.33080	0	0	0	0	0	0	0	0	0	0	0	0	359350	357650	351400
TRINITY_DN14453_c2_g3::TRINITY_DN14453_c2_g3_i2::g.37393::m.37393	264540	0	195980	172890	0	120500	311120	0	0	0	0	0	0	0	0
TRINITY_DN12731_c3_g2::TRINITY_DN12731_c3_g2_i1::g.15534::m.15534	0	0	0	0	0	0	0	0	0	0	0	0	321190	377510	365850
TRINITY_DN19556_c1_g1::TRINITY_DN19556_c1_g1_i8::g.119918::m.1199	0	0	0	0	0	0	0	0	0	0	0	0	290440	0	770870
TRINITY_DN12315_c0_g1::TRINITY_DN12315_c0_g1_i2::g.11830::m.11830	0	0	0	0	0	0	0	0	0	0	0	0	259840	559570	241380
TRINITY_DN14308_c1_g1::TRINITY_DN14308_c1_g1_i5::g.35396::m.35396	0	0	0	0	0	0	0	0	0	0	0	0	436980	308850	313890
TRINITY_DN15701_c0_g1::TRINITY_DN15701_c0_g1_i7::g.55836::m.55836	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1058700
TRINITY_DN11076_c0_g1::TRINITY_DN11076_c0_g1_i2::g.6263::m.6263	0	0	0	0	0	0	0	0	0	0	0	0	0	1055400	0
TRINITY_DN13289_c1_g1::TRINITY_DN13289_c1_g1_i2::g.22086::m.22086	0	0	0	0	0	0	0	0	0	0	0	0	290660	524660	239710
TRINITY_DN11519_c0_g1::TRINITY_DN11519_c0_g1_i2::g.7693::m.7693	0	0	0	0	0	0	0	0	0	0	0	0	198100	631960	223080
TRINITY_DN15166_c0_g1::TRINITY_DN15166_c0_g1_i7::g.47733::m.47733	0	0	0	0	0	0	0	0	0	0	0	0	169440	411200	471760
TRINITY_DN15517_c0_g1::TRINITY_DN15517_c0_g1_i10::g.53139::m.5313	0	0	0	0	0	0	0	0	0	0	0	0	740700	0	311450
TRINITY_DN15729_c0_g1::TRINITY_DN15729_c0_g1_i9::g.56378::m.56378	0	0	0	0	0	0	0	0	0	0	0	0	190100	691720	170270

TRINITY_DN15900_c2_g1::TRINITY_DN15900_c2_g1_i1::g.57240::m.57240	41462	0	0	0	0	0	0	0	0	0	0	0	0	885590	124120
TRINITY_DN13702_c0_g1::TRINITY_DN13702_c0_g1_i4::g.27394::m.27394	80372	36544	115170	114630	0	0	0	0	0	0	703840	0	0	0	0
TRINITY_DN17271_c3_g3::TRINITY_DN17271_c3_g3_i8::g.81059::m.81059	0	0	0	0	0	0	0	0	0	0	0	0	177600	461190	410520
TRINITY_DN17089_c1_g2::TRINITY_DN17089_c1_g2_i5::g.78211::m.78211	0	0	0	0	0	0	0	0	0	0	0	0	247660	311540	489470
TRINITY_DN17386_c2_g1::TRINITY_DN17386_c2_g1_i2::g.82885::m.82885	0	0	0	0	0	0	0	0	0	0	0	0	243780	261720	540790
TRINITY_DN13961_c0_g1::TRINITY_DN13961_c0_g1_i2::g.30621::m.30621	0	0	0	0	0	0	0	0	0	0	0	0	0	896820	146680
TRINITY_DN13778_c1_g3::TRINITY_DN13778_c1_g3_i1::g.28124::m.28124	0	0	0	0	0	0	0	0	0	0	0	0	391310	651330	0
TRINITY_DN13512_c0_g1::TRINITY_DN13512_c0_g1_i2::g.24707::m.24707	64510	31711	88433	56552	0	0	0	108810	236500	0	455980	0	0	0	0
TRINITY_DN19318_c3_g1::TRINITY_DN19318_c3_g1_i7::g.115859::m.115859	118440	0	0	0	0	0	0	0	293190	0	435200	0	0	195520	0
TRINITY_DN17993_c0_g1::TRINITY_DN17993_c0_g1_i2::g.93217::m.93217	0	0	0	0	0	0	0	0	0	0	0	0	178570	284260	577850
TRINITY_DN19049_c0_g1::TRINITY_DN19049_c0_g1_i9::g.110547::m.110547	0	0	0	0	0	0	0	0	0	0	0	0	189340	488300	362800
TRINITY_DN12375_c3_g1::TRINITY_DN12375_c3_g1_i9::g.12353::m.12353	0	0	0	0	0	0	0	0	0	0	0	0	456950	0	582720
TRINITY_DN18998_c2_g1::TRINITY_DN18998_c2_g1_i7::g.108559::m.108559	0	0	0	0	0	0	0	0	0	0	0	0	171830	469170	398250
TRINITY_DN18521_c6_g4::TRINITY_DN18521_c6_g4_i1::g.101901::m.101901	0	0	0	0	0	0	0	0	0	0	0	0	384680	430930	222500
TRINITY_DN17805_c0_g1::TRINITY_DN17805_c0_g1_i5::g.89980::m.89980	0	0	0	0	0	0	0	0	0	0	0	0	308960	421840	301410
TRINITY_DN19377_c2_g2::TRINITY_DN19377_c2_g2_i2::g.116852::m.116852	0	0	0	0	0	0	0	0	0	0	0	79974	363320	302970	285610
TRINITY_DN19873_c6_g5::TRINITY_DN19873_c6_g5_i6::g.124897::m.124897	0	0	0	0	0	0	0	0	0	0	0	0	0	516130	514230
TRINITY_DN16513_c0_g2::TRINITY_DN16513_c0_g2_i7::g.68926::m.68926	0	0	0	0	0	0	0	90562	0	0	0	0	411910	527850	0
TRINITY_DN12856_c0_g1::TRINITY_DN12856_c0_g1_i4::g.16613::m.16613	0	0	0	0	0	0	0	0	0	0	0	0	0	466070	562490
TRINITY_DN8001_c0_g1::TRINITY_DN8001_c0_g1_i1::g.2441::m.2441	0	0	0	0	0	0	0	0	0	0	0	0	420420	608070	0

TRINITY_DN16768_c1_g1::TRINITY_DN16768_c1_g1_i8::g.72998::m.72998	0	0	0	0	0	0	0	0	0	0	0	0	0	681600	342290
TRINITY_DN15627_c0_g1::TRINITY_DN15627_c0_g1_i7::g.54594::m.54594	0	0	0	0	0	0	0	0	0	0	0	0	344270	356500	319600
TRINITY_DN17680_c4_g1::TRINITY_DN17680_c4_g1_i22::g.88254::m.88254	0	0	0	0	0	0	0	0	0	0	0	0	385020	487610	147170
TRINITY_DN19193_c1_g1::TRINITY_DN19193_c1_g1_i1::g.113618::m.1136	102270	14786	153380	167940	120190	0	135590	323720	0	0	0	0	0	0	0
TRINITY_DN13047_c0_g2::TRINITY_DN13047_c0_g2_i4::g.19117::m.19117	0	0	0	0	0	0	0	0	0	0	0	0	597600	419740	0
TRINITY_DN16413_c0_g1::TRINITY_DN16413_c0_g1_i2::g.67167::m.67167	0	0	0	0	0	0	0	0	0	0	0	0	302640	366880	347440
TRINITY_DN16171_c0_g1::TRINITY_DN16171_c0_g1_i2::g.63190::m.63190	0	0	0	0	0	0	0	0	0	0	0	0	0	1016900	0
TRINITY_DN19552_c1_g2::TRINITY_DN19552_c1_g2_i2::g.119657::m.119657	0	0	0	0	0	0	0	0	0	0	0	0	0	503740	512480
TRINITY_DN15066_c0_g1::TRINITY_DN15066_c0_g1_i4::g.46431::m.46431	0	0	0	0	0	0	0	0	0	0	0	0	307590	0	708070
TRINITY_DN17996_c1_g1::TRINITY_DN17996_c1_g1_i2::g.93353::m.93353	0	0	0	0	0	0	0	0	0	0	0	0	352040	663540	0
TRINITY_DN19241_c0_g1::TRINITY_DN19241_c0_g1_i6::g.115140::m.1151	0	0	0	0	0	0	0	0	0	0	0	0	569440	0	443860
TRINITY_DN18797_c1_g2::TRINITY_DN18797_c1_g2_i1::g.106436::m.106436	227730	125270	233620	425790	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN10621_c0_g1::TRINITY_DN10621_c0_g1_i2::g.5142::m.5142	0	0	0	0	0	0	0	0	0	0	0	0	326710	368450	315720
TRINITY_DN18450_c3_g3::TRINITY_DN18450_c3_g3_i7::g.100614::m.100614	0	0	0	0	0	0	0	0	0	0	0	0	314180	186530	509660
TRINITY_DN12897_c1_g1::TRINITY_DN12897_c1_g1_i8::g.17082::m.17082	0	0	0	0	0	0	318140	0	244240	47853	399680	0	0	0	0
TRINITY_DN15693_c4_g1::TRINITY_DN15693_c4_g1_i3::g.55852::m.55852	0	0	0	0	0	0	0	0	0	0	0	0	266480	306460	436910
TRINITY_DN13826_c0_g2::TRINITY_DN13826_c0_g2_i4::g.28934::m.28934	0	0	0	0	0	0	0	0	0	0	0	0	372160	423660	213250
TRINITY_DN11412_c0_g1::TRINITY_DN11412_c0_g1_i1::g.7292::m.7292	0	0	0	0	0	0	0	0	0	0	0	0	0	708540	299340
TRINITY_DN11674_c0_g1::TRINITY_DN11674_c0_g1_i3::g.8359::m.8359	0	0	0	0	0	0	0	230570	0	0	769410	0	0	0	0
TRINITY_DN17979_c4_g2::TRINITY_DN17979_c4_g2_i7::g.93178::m.93178	0	0	0	0	0	20889	0	0	112930	0	0	153270	308150	0	403340
TRINITY_DN18736_c0_g1::TRINITY_DN18736_c0_g1_i7::g.105711::m.105711	0	0	0	0	0	0	0	0	0	0	0	0	0	503720	492530
TRINITY_DN13606_c2_g3::TRINITY_DN13606_c2_g3_i2::g.26267::m.26267	0	0	0	0	0	0	0	0	0	0	0	0	0	161450	834500

TRINITY_DN13348_c4_g1::TRINITY_DN13348_c4_g1_i6::g.22618::m.22618	72510	0	0	0	0	0	0	0	0	0	0	0	356110	416250	150410
TRINITY_DN17345_c4_g3::TRINITY_DN17345_c4_g3_i2::g.81576::m.81576	0	0	0	0	0	0	0	0	0	0	0	0	244510	224130	522010
TRINITY_DN11662_c0_g1::TRINITY_DN11662_c0_g1_i1::g.8281::m.8281	137590	32571	114040	75845	0	67530	288540	274150	0	0	0	0	0	0	0
TRINITY_DN15060_c1_g1::TRINITY_DN15060_c1_g1_i6::g.46413::m.46413	0	0	0	0	0	0	0	0	0	0	0	0	227220	411080	349700
TRINITY_DN15046_c3_g2::TRINITY_DN15046_c3_g2_i6::g.45963::m.45963	0	0	0	0	0	0	0	0	0	0	0	0	440880	271400	273770
TRINITY_DN17213_c1_g3::TRINITY_DN17213_c1_g3_i3::g.80204::m.80204	0	0	0	0	0	0	0	0	0	0	0	0	243840	197460	543470
TRINITY_DN18186_c3_g1::TRINITY_DN18186_c3_g1_i8::g.96539::m.96539	0	0	0	0	0	0	0	0	0	0	0	0	224420	519520	237780
TRINITY_DN19210_c1_g1::TRINITY_DN19210_c1_g1_i13::g.114068::m.114068	0	0	0	0	0	0	0	0	0	0	0	0	0	371580	608900
TRINITY_DN17483_c0_g1::TRINITY_DN17483_c0_g1_i3::g.84425::m.84425	0	0	0	0	0	0	0	0	0	0	0	0	343600	238160	396820
TRINITY_DN13893_c0_g2::TRINITY_DN13893_c0_g2_i1::g.30000::m.30000	0	0	0	0	0	0	0	0	0	0	0	0	266970	437740	273140
TRINITY_DN19502_c1_g3::TRINITY_DN19502_c1_g3_i5::g.118942::m.118942	0	0	0	0	0	0	0	0	0	0	0	0	163760	448610	364800
TRINITY_DN13503_c0_g1::TRINITY_DN13503_c0_g1_i7::g.24647::m.24647	102440	46158	104630	103110	0	0	0	0	0	0	0	618330	0	0	0
TRINITY_DN20983_c0_g1::TRINITY_DN20983_c0_g1_i1::g.128678::m.128678	0	0	0	0	0	0	0	0	0	0	0	0	182070	442580	347530
TRINITY_DN15427_c0_g1::TRINITY_DN15427_c0_g1_i2::g.51743::m.51743	0	0	0	0	0	0	0	0	0	0	0	0	137800	513210	320530
TRINITY_DN19611_c0_g2::TRINITY_DN19611_c0_g2_i9::g.121074::m.121074	0	0	0	0	0	0	0	0	0	0	325240	0	403450	0	242460
TRINITY_DN17613_c0_g1::TRINITY_DN17613_c0_g1_i11::g.87113::m.8711	0	0	0	0	0	0	0	0	0	0	0	0	155920	86127	728310
TRINITY_DN19888_c1_g1::TRINITY_DN19888_c1_g1_i5::g.125265::m.125265	0	0	0	0	0	0	0	0	0	0	0	585820	85802	296410	0
TRINITY_DN17142_c1_g1::TRINITY_DN17142_c1_g1_i7::g.79281::m.79281	0	0	0	0	0	0	0	0	0	0	0	0	0	967850	0
TRINITY_DN14016_c0_g1::TRINITY_DN14016_c0_g1_i9::g.31308::m.31308	0	0	0	0	0	0	0	0	0	0	0	0	690700	276960	0
TRINITY_DN15297_c0_g1::TRINITY_DN15297_c0_g1_i10::g.49743::m.49743	43826	0	41987	0	0	0	0	0	0	0	0	0	326070	177330	377610

TRINITY_DN18857_c0_g1::TRINITY_DN18857_c0_g1_i9::g.107487::m.107487	0	0	0	0	0	0	0	0	0	0	0	0	205780	559350	200950
TRINITY_DN14669_c0_g2::TRINITY_DN14669_c0_g2_i2::g.40246::m.40246	194790	0	410360	357920	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN11011_c0_g1::TRINITY_DN11011_c0_g1_i3::g.6100::m.6100	0	0	0	0	0	0	0	0	0	0	0	0	220080	453300	289080
TRINITY_DN13798_c2_g3::TRINITY_DN13798_c2_g3_i1::g.28387::m.28387	0	45335	136010	99859	0	0	0	0	0	0	0	680710	0	0	0
TRINITY_DN13146_c0_g1::TRINITY_DN13146_c0_g1_i3::g.20394::m.20394	0	0	0	0	0	0	0	0	0	0	0	0	255770	349570	353230
TRINITY_DN16700_c3_g5::TRINITY_DN16700_c3_g5_i2::g.71826::m.71826	0	0	0	0	0	0	0	0	0	0	0	0	404290	323640	230130
TRINITY_DN17427_c0_g1::TRINITY_DN17427_c0_g1_i3::g.83624::m.83624	171360	0	346520	440140	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN15169_c1_g1::TRINITY_DN15169_c1_g1_i14::g.47860::m.47860	0	0	0	0	0	0	0	0	0	0	0	0	265840	355550	334370
TRINITY_DN13150_c1_g1::TRINITY_DN13150_c1_g1_i6::g.20550::m.20550	83434	32967	110790	105610	141940	0	0	155260	323060	0	0	0	0	0	0
TRINITY_DN19251_c1_g2::TRINITY_DN19251_c1_g2_i17::g.114967::m.114967	0	0	0	0	0	0	0	0	0	0	0	0	271420	424310	256970
TRINITY_DN19006_c2_g1::TRINITY_DN19006_c2_g1_i11::g.110719::m.110719	0	0	0	0	0	0	0	0	0	0	0	0	506590	0	443570
TRINITY_DN18900_c0_g1::TRINITY_DN18900_c0_g1_i6::g.107340::m.107340	0	0	0	0	0	0	0	0	0	0	0	0	334340	270170	345320
TRINITY_DN15100_c0_g1::TRINITY_DN15100_c0_g1_i1::g.45506::m.45506	0	0	0	0	0	0	0	0	0	0	0	0	253680	268500	424920
TRINITY_DN11216_c0_g1::TRINITY_DN11216_c0_g1_i3::g.6674::m.6674	0	0	0	0	0	0	0	0	0	0	0	0	323670	154450	466260
TRINITY_DN19951_c3_g1::TRINITY_DN19951_c3_g1_i8::g.125811::m.1258	0	0	0	0	0	0	0	149020	0	0	290020	0	0	240510	263480
TRINITY_DN13542_c0_g1::TRINITY_DN13542_c0_g1_i7::g.24740::m.24740	0	0	0	0	0	0	0	0	0	0	0	0	171460	209100	561920
TRINITY_DN13852_c0_g1::TRINITY_DN13852_c0_g1_i7::g.28442::m.28442	0	0	0	0	0	0	0	0	0	0	0	0	246460	530410	164870
TRINITY_DN16578_c2_g1::TRINITY_DN16578_c2_g1_i1::g.69884::m.69884	0	0	0	0	0	0	0	0	0	0	0	0	356310	413570	166840
TRINITY_DN18180_c0_g1::TRINITY_DN18180_c0_g1_i6::g.96457::m.96457	0	0	0	0	0	0	0	0	0	0	0	0	0	138040	798210
TRINITY_DN16164_c3_g2::TRINITY_DN16164_c3_g2_i1::g.62975::m.62975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	935440

TRINITY_DN14862_c0_g2::TRINITY_DN14862_c0_g2_i3::g.43396::m.43396	0	0	0	0	0	0	0	0	0	0	0	0	0	458480	476750
TRINITY_DN12438_c0_g1::TRINITY_DN12438_c0_g1_i11::g.12896::m.12896	0	0	0	0	0	0	0	0	0	0	0	85367	175190	346670	327470
TRINITY_DN11935_c0_g1::TRINITY_DN11935_c0_g1_i2::g.9568::m.9568	0	0	0	0	0	0	0	0	0	0	0	0	313530	275710	345280
TRINITY_DN17228_c0_g1::TRINITY_DN17228_c0_g1_i3::g.80433::m.80433	0	0	0	0	0	0	0	0	0	0	0	0	0	396530	536500
TRINITY_DN14948_c0_g1::TRINITY_DN14948_c0_g1_i2::g.43967::m.43967	0	0	0	0	0	0	0	0	0	0	0	0	382760	282020	268170
TRINITY_DN17507_c1_g2::TRINITY_DN17507_c1_g2_i9::g.85053::m.85053	0	0	0	0	0	0	0	0	0	0	0	0	361900	191520	378810
TRINITY_DN14555_c5_g1::TRINITY_DN14555_c5_g1_i2::g.38904::m.38904	0	0	0	0	137490	0	0	0	0	0	0	409300	185210	0	198410
TRINITY_DN15250_c0_g1::TRINITY_DN15250_c0_g1_i1::g.49205::m.49205	0	0	0	0	0	0	0	0	0	0	0	0	217690	152690	559950
TRINITY_DN14880_c2_g1::TRINITY_DN14880_c2_g1_i5::g.43756::m.43756	0	0	0	0	0	0	0	0	0	0	0	0	453360	237510	237020
TRINITY_DN17189_c3_g1::TRINITY_DN17189_c3_g1_i6::g.79844::m.79844	0	0	0	0	0	0	0	0	0	0	0	0	481310	204210	241460
TRINITY_DN15404_c3_g2::TRINITY_DN15404_c3_g2_i3::g.51327::m.51327	0	0	0	0	0	0	0	0	0	0	0	0	0	0	922740
TRINITY_DN18753_c1_g3::TRINITY_DN18753_c1_g3_i14::g.106335::m.106335	0	0	0	0	0	0	0	0	0	0	0	0	272990	272640	373290
TRINITY_DN19089_c3_g2::TRINITY_DN19089_c3_g2_i5::g.111660::m.111660	0	0	0	0	0	0	0	0	0	0	0	0	918750	0	0
TRINITY_DN18930_c0_g5::TRINITY_DN18930_c0_g5_i4::g.109035::m.109035	0	0	0	0	0	0	0	0	0	0	0	0	106170	544950	267260
TRINITY_DN19063_c1_g2::TRINITY_DN19063_c1_g2_i13::g.111218::m.111218	0	0	0	0	0	0	0	0	0	0	0	0	283860	467880	165270
TRINITY_DN13381_c2_g1::TRINITY_DN13381_c2_g1_i4::g.23007::m.23007	0	0	60090	70816	0	0	0	0	0	0	0	0	259940	524230	0
TRINITY_DN15027_c0_g1::TRINITY_DN15027_c0_g1_i5::g.45870::m.45870	0	0	0	0	0	0	0	0	0	0	0	0	149590	408240	354410
TRINITY_DN17756_c1_g1::TRINITY_DN17756_c1_g1_i7::g.89229::m.89229	0	0	0	0	0	0	0	0	0	0	0	0	258110	169920	483400
TRINITY_DN15011_c4_g2::TRINITY_DN15011_c4_g2_i4::g.45809::m.45809	0	0	0	0	0	0	0	0	0	0	240900	0	201840	246090	221660
TRINITY_DN12829_c0_g1::TRINITY_DN12829_c0_g1_i5::g.16229::m.16229	0	0	0	0	0	0	0	0	0	0	0	0	158120	282910	469190

TRINITY_DN19522_c5_g1::TRINITY_DN19522_c5_g1_i5::g.119202::m.119202	0	0	0	0	0	0	0	0	0	0	0	0	308140	356530	245360
TRINITY_DN19133_c0_g1::TRINITY_DN19133_c0_g1_i8::g.112559::m.112559	0	0	0	0	0	0	0	0	0	0	0	0	0	518160	391490
TRINITY_DN19814_c1_g3::TRINITY_DN19814_c1_g3_i2::g.124100::m.124100	0	0	0	0	0	0	0	172270	0	417290	0	0	0	319190	0
TRINITY_DN32151_c0_g1::TRINITY_DN32151_c0_g1_i1::g.130343::m.130343	0	0	0	0	0	0	0	0	0	0	0	0	279830	360600	266730
TRINITY_DN12363_c0_g1::TRINITY_DN12363_c0_g1_i2::g.12162::m.12162	0	0	0	0	0	0	0	0	0	0	0	0	546820	0	358980
TRINITY_DN18083_c3_g1::TRINITY_DN18083_c3_g1_i4::g.94853::m.94853	0	0	0	0	0	0	0	0	0	0	0	0	0	279600	625700
TRINITY_DN15012_c0_g1::TRINITY_DN15012_c0_g1_i2::g.45660::m.45660	0	0	0	37642	191680	0	258430	0	0	0	0	0	0	416640	0
TRINITY_DN18820_c2_g1::TRINITY_DN18820_c2_g1_i7::g.106999::m.106999	136850	0	147870	110150	0	0	0	0	0	0	0	0	0	272940	236080
TRINITY_DN15977_c4_g2::TRINITY_DN15977_c4_g2_i4::g.59843::m.59843	0	0	0	68241	0	0	183810	106040	0	0	0	0	0	295320	249990
TRINITY_DN19301_c0_g1::TRINITY_DN19301_c0_g1_i6::g.115549::m.115549	0	0	0	0	0	0	0	0	0	0	0	0	419520	405980	72849
TRINITY_DN16119_c4_g3::TRINITY_DN16119_c4_g3_i2::g.62577::m.62577	0	0	0	0	0	0	0	0	0	0	0	0	155140	288210	454180
TRINITY_DN14879_c3_g1::TRINITY_DN14879_c3_g1_i2::g.43728::m.43728	0	0	0	0	0	0	0	0	0	0	0	0	0	399200	495640
TRINITY_DN18658_c0_g1::TRINITY_DN18658_c0_g1_i8::g.104114::m.104114	0	0	58872	0	0	0	364120	0	0	0	304840	0	166540	0	0
TRINITY_DN17925_c2_g1::TRINITY_DN17925_c2_g1_i5::g.91985::m.91985	0	0	0	0	0	0	0	0	0	0	0	0	81745	472780	338840
TRINITY_DN16773_c1_g1::TRINITY_DN16773_c1_g1_i5::g.73048::m.73048	75706	47446	93914	0	0	0	0	0	0	0	0	173730	147760	168960	183240
TRINITY_DN13102_c0_g1::TRINITY_DN13102_c0_g1_i5::g.19880::m.19880	0	0	0	0	0	0	0	0	0	0	0	0	0	216380	674240
TRINITY_DN15656_c0_g5::TRINITY_DN15656_c0_g5_i2::g.55149::m.55149	0	0	0	0	0	0	0	0	0	0	0	0	134240	539130	215090
TRINITY_DN15008_c0_g2::TRINITY_DN15008_c0_g2_i1::g.45732::m.45732	0	0	0	0	0	0	0	0	0	0	0	0	287790	379800	218970
TRINITY_DN18231_c0_g2::TRINITY_DN18231_c0_g2_i7::g.97309::m.97309	0	0	0	0	0	0	0	0	0	0	88430	0	95268	459470	243270
TRINITY_DN17061_c4_g1::TRINITY_DN17061_c4_g1_i15::g.77796::m.77796	232850	76263	217250	192730	0	0	0	0	0	0	0	0	0	0	159820

TRINITY_DN17769_c1_g1::TRINITY_DN17769_c1_g1_i4::g.89348::m.89348	0	0	0	0	0	0	0	0	0	0	0	0	0	437790	437920
TRINITY_DN17821_c0_g1::TRINITY_DN17821_c0_g1_i3::g.91084::m.91084	0	0	0	0	0	0	0	0	0	0	0	0	396570	0	475520
TRINITY_DN19568_c0_g1::TRINITY_DN19568_c0_g1_i11::g.119880::m.119880	0	0	0	0	0	0	0	0	0	0	0	0	277920	407060	186460
TRINITY_DN16019_c1_g2::TRINITY_DN16019_c1_g2_i3::g.60717::m.60717	0	0	0	0	0	0	0	0	0	0	0	0	0	870620	0
TRINITY_DN13205_c0_g1::TRINITY_DN13205_c0_g1_i3::g.21053::m.21053	185670	90264	244250	200440	149030	0	0	0	0	0	0	0	0	0	0
TRINITY_DN13561_c3_g1::TRINITY_DN13561_c3_g1_i11::g.25972::m.25972	0	0	0	0	0	0	0	0	0	0	0	0	226050	288200	351760
TRINITY_DN16924_c1_g1::TRINITY_DN16924_c1_g1_i1::g.75666::m.75666	0	0	0	0	0	0	0	0	0	0	0	0	0	865770	0
TRINITY_DN10291_c0_g2::TRINITY_DN10291_c0_g2_i1::g.4575::m.4575	82669	0	119170	112040	0	0	175200	0	0	0	0	0	0	0	376510
TRINITY_DN14186_c0_g1::TRINITY_DN14186_c0_g1_i2::g.33325::m.33325	0	0	0	0	0	0	0	0	0	0	0	0	344110	248950	272520
TRINITY_DN17451_c1_g1::TRINITY_DN17451_c1_g1_i3::g.84062::m.84062	0	0	0	0	0	0	0	0	0	0	0	0	270180	351330	243030
TRINITY_DN16642_c3_g1::TRINITY_DN16642_c3_g1_i8::g.71010::m.71010	0	0	0	0	0	0	0	0	0	0	0	0	144450	277110	442920
TRINITY_DN18772_c0_g1::TRINITY_DN18772_c0_g1_i5::g.106264::m.106264	0	0	0	0	0	0	0	0	0	0	0	0	0	552760	310520
TRINITY_DN12837_c2_g1::TRINITY_DN12837_c2_g1_i5::g.16578::m.16578	388850	0	180930	289310	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN14047_c1_g1::TRINITY_DN14047_c1_g1_i4::g.31668::m.31668	0	0	0	0	0	0	0	0	0	0	0	0	188130	246440	421400
TRINITY_DN19086_c1_g1::TRINITY_DN19086_c1_g1_i6::g.111724::m.1117	0	0	0	0	0	0	0	0	0	0	0	0	198440	406080	249250
TRINITY_DN14258_c0_g5::TRINITY_DN14258_c0_g5_i3::g.34521::m.34521	0	0	0	0	0	0	0	0	0	0	0	0	136010	384710	331880
TRINITY_DN17031_c2_g2::TRINITY_DN17031_c2_g2_i1::g.77290::m.77290	0	0	0	0	0	0	0	0	0	0	0	0	107260	311960	432900
TRINITY_DN12955_c2_g1::TRINITY_DN12955_c2_g1_i5::g.17882::m.17882	0	0	0	0	0	0	0	0	0	0	0	0	149690	332380	369270
TRINITY_DN14036_c4_g1::TRINITY_DN14036_c4_g1_i2::g.31377::m.31377	0	0	0	0	0	0	0	0	0	0	0	0	313710	288210	247230
TRINITY_DN12399_c0_g1::TRINITY_DN12399_c0_g1_i1::g.12011::m.12011	0	0	46686	0	0	0	0	0	0	0	404000	398340	0	0	0
TRINITY_DN15460_c0_g1::TRINITY_DN15460_c0_g1_i9::g.52319::m.52319	0	0	0	0	0	0	0	0	0	0	0	0	105380	408200	335240
TRINITY_DN16066_c2_g3::TRINITY_DN16066_c2_g3_i1::g.61892::m.61892	0	0	0	0	0	0	0	0	0	0	0	0	312170	535660	0

TRINITY_DN15513_c2_g2::TRINITY_DN15513_c2_g2_i3::g.53087::m.53087	0	0	0	0	0	0	0	0	0	0	0	0	265170	0	581930
TRINITY_DN11403_c0_g1::TRINITY_DN11403_c0_g1_i1::g.7256::m.7256	0	0	0	0	0	0	0	0	0	0	0	0	205610	310100	330850
TRINITY_DN12993_c1_g5::TRINITY_DN12993_c1_g5_i1::g.18384::m.18384	0	0	0	0	0	0	0	0	0	0	0	0	410380	433350	0
TRINITY_DN14376_c2_g2::TRINITY_DN14376_c2_g2_i8::g.36166::m.36166	0	0	0	0	0	0	0	0	0	0	0	0	0	265720	576690
TRINITY_DN14670_c0_g1::TRINITY_DN14670_c0_g1_i1::g.40393::m.40393	140350	54292	166590	148680	0	0	0	0	0	0	0	0	0	329270	0
TRINITY_DN19844_c1_g2::TRINITY_DN19844_c1_g2_i1::g.124447::m.124447	0	0	142640	109300	0	0	0	0	0	0	0	0	189450	204310	192610
TRINITY_DN19441_c2_g1::TRINITY_DN19441_c2_g1_i3::g.118113::m.1181	0	0	0	0	0	0	0	0	0	0	0	0	0	837830	0
TRINITY_DN19418_c2_g1::TRINITY_DN19418_c2_g1_i2::g.117511::m.1175	0	0	0	0	0	0	0	0	0	0	0	0	203910	244900	388740
TRINITY_DN12196_c0_g1::TRINITY_DN12196_c0_g1_i3::g.11012::m.11012	0	0	0	0	0	0	0	0	0	0	0	0	42635	793820	0
TRINITY_DN18673_c1_g1::TRINITY_DN18673_c1_g1_i5::g.104369::m.104369	0	0	0	0	0	0	0	0	0	0	0	0	206960	354160	272900
TRINITY_DN19846_c6_g1::TRINITY_DN19846_c6_g1_i2::g.124495::m.124495	33701	0	32757	0	0	0	98002	0	0	0	113060	0	267770	159390	127000
TRINITY_DN1593_c0_g1::TRINITY_DN1593_c0_g1_i1::g.417::m.417	141150	77115	159040	43077	0	55485	0	100890	0	145760	0	0	0	105480	0
TRINITY_DN18479_c0_g3::TRINITY_DN18479_c0_g3_i1::g.100965::m.100965	0	0	0	0	0	0	0	0	0	0	0	0	371630	456230	0
TRINITY_DN12843_c0_g1::TRINITY_DN12843_c0_g1_i3::g.16447::m.16447	0	0	0	0	0	0	0	0	0	0	0	0	0	425820	401390
TRINITY_DN9796_c0_g1::TRINITY_DN9796_c0_g1_i1::g.3884::m.3884	0	0	0	0	0	0	0	0	70198	0	0	121790	195990	228680	207780
TRINITY_DN19235_c2_g1::TRINITY_DN19235_c2_g1_i2::g.114336::m.114336	0	0	0	0	0	0	0	0	0	0	314380	0	155200	193850	160780
TRINITY_DN19694_c1_g1::TRINITY_DN19694_c1_g1_i14::g.120695::m.120695	0	0	0	0	0	0	0	0	0	0	0	0	0	385050	438720
TRINITY_DN16533_c3_g1::TRINITY_DN16533_c3_g1_i1::g.69070::m.69070	0	0	0	0	0	0	0	0	0	0	0	0	164650	658740	0
TRINITY_DN11975_c0_g1::TRINITY_DN11975_c0_g1_i3::g.9738::m.9738	0	0	0	0	0	0	0	0	0	0	0	0	342110	415510	65509
TRINITY_DN12861_c0_g1::TRINITY_DN12861_c0_g1_i2::g.16621::m.16621	0	0	76076	0	0	0	0	0	0	0	219400	0	0	0	527220
TRINITY_DN14096_c0_g4::TRINITY_DN14096_c0_g4_i2::g.32317::m.32317	0	0	0	0	0	0	0	0	0	0	0	0	0	0	819530

TRINITY_DN16788_c0_g2::TRINITY_DN16788_c0_g2_i3::g.73187::m.73187	151620	26165	173820	164510	301320	0	0	0	0	0	0	0	0	0	0
TRINITY_DN17508_c4_g1::TRINITY_DN17508_c4_g1_i3::g.85406::m.85406	0	0	0	0	0	0	0	0	0	0	0	0	406000	0	409570
TRINITY_DN15658_c0_g1::TRINITY_DN15658_c0_g1_i3::g.55055::m.55055	0	0	0	0	0	0	0	0	0	0	0	0	118590	424240	269960
TRINITY_DN18925_c2_g2::TRINITY_DN18925_c2_g2_i2::g.109044::m.109044	0	0	0	0	0	0	0	0	0	0	0	0	249980	282890	279810
TRINITY_DN2281_c0_g1::TRINITY_DN2281_c0_g1_i1::g.635::m.635	0	0	0	0	0	0	0	0	0	0	0	0	419270	0	389940
TRINITY_DN14491_c1_g5::TRINITY_DN14491_c1_g5_i8::g.37914::m.37914	0	0	70386	122420	407470	0	0	0	0	0	208080	0	0	0	0
TRINITY_DN14005_c0_g1::TRINITY_DN14005_c0_g1_i3::g.31329::m.31329	0	0	0	0	0	0	0	0	0	0	0	0	227550	285250	294540
TRINITY_DN19319_c0_g3::TRINITY_DN19319_c0_g3_i9::g.115912::m.115912	196900	33940	180570	94479	0	0	0	0	301440	0	0	0	0	0	0
TRINITY_DN16713_c1_g3::TRINITY_DN16713_c1_g3_i3::g.72094::m.72094	0	0	0	0	0	0	0	0	0	0	0	0	229730	576240	0
TRINITY_DN14259_c3_g1::TRINITY_DN14259_c3_g1_i2::g.34652::m.34652	0	0	0	0	0	0	0	112470	223510	225550	244290	0	0	0	0
TRINITY_DN11562_c0_g1::TRINITY_DN11562_c0_g1_i2::g.7869::m.7869	0	54210	181550	0	0	0	0	0	0	0	0	569240	0	0	0
TRINITY_DN34461_c0_g1::TRINITY_DN34461_c0_g1_i1::g.130651::m.130651	204310	74072	274770	251660	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN11895_c0_g1::TRINITY_DN11895_c0_g1_i1::g.9352::m.9352	106410	0	123620	109300	0	0	0	0	0	0	0	0	0	0	463060
TRINITY_DN15183_c1_g3::TRINITY_DN15183_c1_g3_i4::g.48285::m.48285	124770	0	164080	91619	0	0	0	0	0	0	0	0	179950	0	241130
TRINITY_DN14482_c0_g1::TRINITY_DN14482_c0_g1_i1::g.37716::m.37716	0	0	0	0	0	0	0	0	0	0	0	0	227160	274320	295970
TRINITY_DN16600_c2_g1::TRINITY_DN16600_c2_g1_i15::g.68704::m.68704	0	0	0	0	0	0	0	0	0	0	0	0	407600	0	389810
TRINITY_DN16958_c1_g1::TRINITY_DN16958_c1_g1_i8::g.76184::m.76184	0	0	0	0	0	0	0	0	0	0	0	0	229360	326090	241020
TRINITY_DN13523_c0_g1::TRINITY_DN13523_c0_g1_i7::g.24832::m.24832	0	0	0	0	0	0	0	0	0	0	0	0	210320	298480	283130
TRINITY_DN18718_c3_g5::TRINITY_DN18718_c3_g5_i3::g.105071::m.105071	0	0	0	0	0	0	0	0	0	0	0	0	329800	150280	311410
TRINITY_DN17281_c2_g3::TRINITY_DN17281_c2_g3_i2::g.81288::m.81288	150080	0	244310	0	0	0	0	0	0	0	0	0	85758	0	311050

TRINITY_DN18452_c0_g3::TRINITY_DN18452_c0_g3_i8::g.100622::m.100622	0	56215	108950	130260	0	0	0	0	0	0	0	0	0	493980	0
TRINITY_DN14408_c0_g2::TRINITY_DN14408_c0_g2_i5::g.36629::m.36629	0	0	0	0	0	0	0	0	0	0	0	0	184870	222290	380410
TRINITY_DN19395_c1_g2::TRINITY_DN19395_c1_g2_i1::g.117249::m.117249	0	0	0	0	0	0	0	0	214230	170600	272660	0	0	0	128180
TRINITY_DN16328_c4_g2::TRINITY_DN16328_c4_g2_i8::g.65867::m.65867	0	0	0	0	0	0	0	0	0	0	0	0	454900	0	327280
TRINITY_DN16222_c1_g2::TRINITY_DN16222_c1_g2_i6::g.64132::m.64132	0	0	0	0	0	0	0	0	0	0	0	354180	137660	171880	114400
TRINITY_DN16296_c2_g1::TRINITY_DN16296_c2_g1_i8::g.65364::m.65364	0	0	0	0	0	0	0	0	0	0	0	0	381080	268720	127150
TRINITY_DN15139_c1_g2::TRINITY_DN15139_c1_g2_i1::g.47376::m.47376	0	0	41319	0	0	0	0	0	0	0	0	0	0	731420	0
TRINITY_DN17004_c0_g6::TRINITY_DN17004_c0_g6_i1::g.76895::m.76895	0	0	0	0	0	0	0	0	0	0	0	0	446850	325510	0
TRINITY_DN12855_c4_g1::TRINITY_DN12855_c4_g1_i7::g.16693::m.16693	0	0	0	0	0	0	0	0	0	0	0	0	290320	0	480650
TRINITY_DN11323_c0_g1::TRINITY_DN11323_c0_g1_i5::g.7006::m.7006	0	0	0	0	0	0	0	0	0	0	0	0	440520	161430	167750
TRINITY_DN18226_c4_g1::TRINITY_DN18226_c4_g1_i9::g.97134::m.97134	0	0	0	0	0	0	0	0	0	0	0	0	286140	190290	293050
TRINITY_DN18320_c3_g1::TRINITY_DN18320_c3_g1_i1::g.98804::m.98804	0	0	59708	0	0	0	0	0	416180	0	0	0	136720	156410	0
TRINITY_DN12400_c3_g4::TRINITY_DN12400_c3_g4_i4::g.12578::m.12578	0	0	0	0	0	0	0	0	0	0	0	0	250970	262150	255720
TRINITY_DN15264_c3_g2::TRINITY_DN15264_c3_g2_i3::g.49355::m.49355	0	245310	0	0	0	0	0	0	0	0	0	0	205410	317480	0
TRINITY_DN18252_c2_g3::TRINITY_DN18252_c2_g3_i2::g.97577::m.97577	0	0	0	0	0	0	0	0	0	0	0	0	321130	0	446190
TRINITY_DN14880_c3_g1::TRINITY_DN14880_c3_g1_i7::g.43762::m.43762	0	0	0	0	0	0	0	0	0	0	0	0	355000	211790	199550
TRINITY_DN14491_c1_g6::TRINITY_DN14491_c1_g6_i1::g.37898::m.37898	0	0	0	0	0	0	0	0	0	162080	0	357390	243600	0	0
TRINITY_DN12086_c0_g1::TRINITY_DN12086_c0_g1_i1::g.10415::m.10415	0	0	0	0	0	0	0	0	0	0	0	0	0	337440	424900
TRINITY_DN17573_c2_g1::TRINITY_DN17573_c2_g1_i14::g.86248::m.86248	0	0	0	0	0	0	0	0	0	0	0	0	544600	214550	0

TRINITY_DN15292_c0_g3::TRINITY_DN15292_c0_g3_i4::g.49797::m.49797	0	0	0	0	0	0	0	0	0	0	0	0	406370	0	352290
TRINITY_DN13144_c0_g1::TRINITY_DN13144_c0_g1_i6::g.19931::m.19931	205870	34196	151420	233450	0	0	0	0	132850	0	0	0	0	0	0
TRINITY_DN19562_c2_g5::TRINITY_DN19562_c2_g5_i1::g.119826::m.119826	0	0	0	0	0	0	0	0	0	0	0	0	0	393420	364250
TRINITY_DN13091_c0_g1::TRINITY_DN13091_c0_g1_i8::g.19651::m.19651	0	0	0	0	295670	115950	0	0	345040	0	0	0	0	0	0
TRINITY_DN14504_c3_g1::TRINITY_DN14504_c3_g1_i2::g.38234::m.38234	0	0	0	0	0	0	0	0	0	0	0	0	0	570830	185740
TRINITY_DN15895_c3_g1::TRINITY_DN15895_c3_g1_i1::g.57722::m.57722	84253	54374	115800	0	0	70574	0	0	0	0	0	0	245150	186180	0
TRINITY_DN18792_c0_g2::TRINITY_DN18792_c0_g2_i6::g.106589::m.106589	0	0	0	0	0	0	0	0	0	0	0	0	98862	308460	347310
TRINITY_DN14028_c2_g1::TRINITY_DN14028_c2_g1_i4::g.31476::m.31476	0	0	0	0	0	0	0	0	0	0	0	0	96356	304560	346180
TRINITY_DN18788_c0_g2::TRINITY_DN18788_c0_g2_i3::g.106445::m.106445	0	0	0	0	0	0	0	0	0	0	0	0	0	583590	161500
TRINITY_DN16241_c0_g1::TRINITY_DN16241_c0_g1_i2::g.63739::m.63739	0	0	0	0	0	0	0	0	0	0	0	0	246720	249580	248530
TRINITY_DN19798_c2_g1::TRINITY_DN19798_c2_g1_i2::g.123755::m.123755	0	0	0	0	0	0	0	0	0	0	0	0	210170	254040	280290
TRINITY_DN13642_c0_g1::TRINITY_DN13642_c0_g1_i1::g.26569::m.26569	0	0	0	0	0	0	0	0	0	0	0	0	551250	0	193100
TRINITY_DN15510_c3_g3::TRINITY_DN15510_c3_g3_i2::g.53102::m.53102	0	0	0	0	0	0	0	0	0	0	0	0	158660	426750	158650
TRINITY_DN14516_c0_g1::TRINITY_DN14516_c0_g1_i7::g.38023::m.38023	89321	0	65344	77030	0	0	0	0	0	0	0	511810	0	0	0
TRINITY_DN44543_c0_g1::TRINITY_DN44543_c0_g1_i1::g.132115::m.132115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	742250
TRINITY_DN19344_c5_g1::TRINITY_DN19344_c5_g1_i8::g.115623::m.115623	0	0	0	0	0	0	0	0	0	0	0	0	0	378940	363180
TRINITY_DN14685_c0_g1::TRINITY_DN14685_c0_g1_i6::g.40758::m.40758	0	0	0	0	0	0	0	0	0	0	0	0	222030	318640	196150
TRINITY_DN12342_c1_g2::TRINITY_DN12342_c1_g2_i2::g.12106::m.12106	536790	0	0	199390	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN14553_c3_g1::TRINITY_DN14553_c3_g1_i5::g.38708::m.38708	233320	0	0	0	0	0	0	0	0	0	0	0	0	440400	61782
TRINITY_DN16423_c1_g1::TRINITY_DN16423_c1_g1_i12::g.67294::m.67294	0	0	0	0	99309	21392	85606	115590	0	0	0	0	103030	0	310500

TRINITY_DN5236_c0_g1::TRINITY_DN5236_c0_g1_i1::g.1296::m.1296	0	0	0	0	0	0	0	0	0	0	0	0	304550	430780	0
TRINITY_DN14069_c0_g3::TRINITY_DN14069_c0_g3_i3::g.32072::m.32072	0	0	0	0	0	0	0	0	0	0	0	0	219070	259500	255630
TRINITY_DN18518_c1_g1::TRINITY_DN18518_c1_g1_i12::g.103139::m.103139	0	0	0	0	0	0	0	0	0	0	0	0	260370	321210	149910
TRINITY_DN18275_c0_g4::TRINITY_DN18275_c0_g4_i1::g.98310::m.98310	0	0	0	0	0	0	0	0	0	0	0	0	0	0	730050
TRINITY_DN20016_c1_g1::TRINITY_DN20016_c1_g1_i7::g.127847::m.127847	83945	0	182860	155390	0	0	0	63061	0	0	243660	0	0	0	0
TRINITY_DN14420_c1_g1::TRINITY_DN14420_c1_g1_i4::g.36850::m.36850	0	0	0	0	0	0	0	0	0	0	0	0	146660	390510	191220
TRINITY_DN18968_c1_g1::TRINITY_DN18968_c1_g1_i9::g.109574::m.109574	0	0	0	0	0	0	0	0	0	0	0	0	275690	122210	330350
TRINITY_DN14219_c0_g1::TRINITY_DN14219_c0_g1_i18::g.33900::m.33900	0	0	0	0	0	0	0	0	0	0	0	0	111810	413660	201950
TRINITY_DN16257_c0_g1::TRINITY_DN16257_c0_g1_i2::g.64601::m.64601	0	0	0	0	0	0	0	0	0	0	0	0	97123	325220	303860
TRINITY_DN19366_c1_g3::TRINITY_DN19366_c1_g3_i1::g.116912::m.116912	0	0	0	0	0	0	0	0	0	0	0	725250	0	0	0
TRINITY_DN18230_c1_g3::TRINITY_DN18230_c1_g3_i4::g.97286::m.97286	0	0	0	0	0	0	0	0	0	0	0	0	0	370390	352480
TRINITY_DN16429_c0_g2::TRINITY_DN16429_c0_g2_i3::g.67310::m.67310	0	0	0	0	0	0	0	0	0	0	0	0	300740	332540	88907
TRINITY_DN18185_c0_g2::TRINITY_DN18185_c0_g2_i8::g.96676::m.96676	0	0	0	0	0	0	0	0	0	0	0	0	104690	0	616600
TRINITY_DN16928_c0_g2::TRINITY_DN16928_c0_g2_i1::g.75662::m.75662	0	0	0	0	0	0	0	0	0	0	0	0	187140	296060	235310
TRINITY_DN12765_c0_g2::TRINITY_DN12765_c0_g2_i9::g.15778::m.15778	104680	0	0	90835	0	0	0	383860	0	139110	0	0	0	0	0
TRINITY_DN16240_c0_g1::TRINITY_DN16240_c0_g1_i3::g.64405::m.64405	0	0	0	0	0	0	0	0	0	0	0	0	0	717220	0
TRINITY_DN15464_c0_g4::TRINITY_DN15464_c0_g4_i1::g.52272::m.52272	0	0	0	0	0	0	0	0	0	0	0	0	242100	253060	221670
TRINITY_DN17952_c0_g1::TRINITY_DN17952_c0_g1_i8::g.92586::m.92586	0	0	0	0	0	0	0	0	0	0	0	0	353580	0	361610
TRINITY_DN16980_c0_g3::TRINITY_DN16980_c0_g3_i2::g.76506::m.76506	0	0	0	0	0	0	0	0	0	0	0	0	197500	187700	328100

TRINITY_DN14376_c2_g1::TRINITY_DN14376_c2_g1_i4::g.36173::m.36173	0	0	0	0	0	0	0	0	0	0	0	0	163210	191950	356410
TRINITY_DN11353_c0_g1::TRINITY_DN11353_c0_g1_i1::g.7089::m.7089	0	0	0	0	0	0	0	0	0	0	0	0	643300	0	67065
TRINITY_DN17937_c1_g5::TRINITY_DN17937_c1_g5_i2::g.92219::m.92219	69954	0	104760	61983	0	0	0	0	0	0	0	0	0	472620	0
TRINITY_DN15328_c3_g2::TRINITY_DN15328_c3_g2_i4::g.50205::m.50205	0	0	0	0	0	0	0	0	0	0	0	0	0	132890	574190
TRINITY_DN19548_c2_g6::TRINITY_DN19548_c2_g6_i1::g.119771::m.119771	0	0	0	0	0	0	0	0	0	0	0	0	344820	360460	0
TRINITY_DN18997_c1_g1::TRINITY_DN18997_c1_g1_i3::g.110273::m.110273	0	0	0	0	0	0	0	0	0	0	0	0	186860	175700	342520
TRINITY_DN17307_c3_g1::TRINITY_DN17307_c3_g1_i2::g.81691::m.81691	0	0	0	0	0	0	0	152050	0	0	344170	0	208610	0	0
TRINITY_DN19257_c3_g1::TRINITY_DN19257_c3_g1_i1::g.114723::m.114723	0	0	0	0	0	0	0	0	0	0	0	0	358950	345880	0
TRINITY_DN19453_c0_g2::TRINITY_DN19453_c0_g2_i2::g.118209::m.118209	0	0	0	0	0	0	0	58119	0	0	296140	349340	0	0	0
TRINITY_DN11079_c0_g1::TRINITY_DN11079_c0_g1_i1::g.6259::m.6259	0	0	0	0	0	0	0	0	0	0	0	0	0	0	703070
TRINITY_DN18472_c4_g2::TRINITY_DN18472_c4_g2_i2::g.100983::m.100983	90127	0	124740	81903	101200	0	0	0	0	0	0	0	0	149160	155900
TRINITY_DN9342_c0_g1::TRINITY_DN9342_c0_g1_i1::g.3304::m.3304	0	0	0	0	0	0	0	0	0	0	0	0	0	351560	351330
TRINITY_DN17375_c4_g1::TRINITY_DN17375_c4_g1_i2::g.82845::m.82845	0	0	0	0	0	0	0	0	0	0	0	0	315290	182120	203730
TRINITY_DN16195_c0_g1::TRINITY_DN16195_c0_g1_i3::g.63589::m.63589	0	0	0	0	171550	0	0	0	0	0	523350	0	0	0	0
TRINITY_DN15131_c1_g3::TRINITY_DN15131_c1_g3_i1::g.47487::m.47487	0	0	0	0	0	0	0	0	0	0	0	0	351300	166840	176420
TRINITY_DN17744_c7_g1::TRINITY_DN17744_c7_g1_i4::g.89103::m.89103	0	0	0	0	0	0	0	0	0	0	0	0	0	450070	243480
TRINITY_DN18492_c0_g1::TRINITY_DN18492_c0_g1_i14::g.101403::m.101403	0	0	47498	0	141940	0	0	0	0	114070	388690	0	0	0	0
TRINITY_DN20003_c1_g1::TRINITY_DN20003_c1_g1_i6::g.127620::m.127620	0	0	0	0	0	0	0	0	0	0	0	0	0	433860	255630
TRINITY_DN14376_c2_g4::TRINITY_DN14376_c2_g4_i7::g.36164::m.36164	0	0	0	0	0	0	0	0	0	0	0	0	0	548330	139870
TRINITY_DN17923_c2_g2::TRINITY_DN17923_c2_g2_i2::g.91995::m.91995	0	0	0	0	0	0	0	0	0	0	0	0	310220	376890	0

TRINITY_DN12731_c3_g4::TRINITY_DN12731_c3_g4_i1::g.15536::m.15536	0	0	0	0	0	0	0	0	0	0	0	0	0	686970	0
TRINITY_DN11014_c0_g1::TRINITY_DN11014_c0_g1_i2::g.6114::m.6114	0	0	0	0	118570	0	0	0	402590	164640	0	0	0	0	0
TRINITY_DN17625_c1_g2::TRINITY_DN17625_c1_g2_i5::g.87298::m.87298	0	0	0	0	0	0	0	0	0	0	0	0	211940	235580	238130
TRINITY_DN15733_c1_g1::TRINITY_DN15733_c1_g1_i2::g.56414::m.56414	0	0	0	0	0	0	0	0	0	0	0	0	180540	271460	232340
TRINITY_DN18395_c1_g2::TRINITY_DN18395_c1_g2_i6::g.99075::m.99075	105400	0	65135	512330	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN15876_c0_g2::TRINITY_DN15876_c0_g2_i4::g.58231::m.58231	38652	0	32042	24887	407600	179610	0	0	0	0	0	0	0	0	0
TRINITY_DN17846_c4_g3::TRINITY_DN17846_c4_g3_i1::g.90654::m.90654	0	0	0	0	0	0	0	0	0	0	0	0	195260	116430	370420
TRINITY_DN19531_c0_g1::TRINITY_DN19531_c0_g1_i3::g.119625::m.119625	0	0	470190	0	0	0	209510	0	0	0	0	0	0	0	0
TRINITY_DN19896_c1_g1::TRINITY_DN19896_c1_g1_i11::g.125427::m.125427	0	0	0	0	0	0	0	0	0	0	0	0	299900	169450	209500
TRINITY_DN13610_c2_g1::TRINITY_DN13610_c2_g1_i1::g.26215::m.26215	0	0	0	0	0	0	0	0	0	0	0	0	216480	221790	240490
TRINITY_DN17704_c0_g1::TRINITY_DN17704_c0_g1_i3::g.88593::m.88593	0	0	0	0	0	0	0	0	0	0	0	0	326950	350870	0
TRINITY_DN13149_c0_g1::TRINITY_DN13149_c0_g1_i7::g.20402::m.20402	0	0	0	0	0	0	0	0	0	0	0	0	377770	149110	150870
TRINITY_DN16337_c1_g1::TRINITY_DN16337_c1_g1_i12::g.66068::m.66068	139960	56114	227690	170950	0	0	0	0	0	0	0	0	0	0	82501
TRINITY_DN18805_c4_g1::TRINITY_DN18805_c4_g1_i2::g.106689::m.106689	0	0	0	0	0	0	0	433360	0	0	0	0	0	0	243830
TRINITY_DN19153_c1_g3::TRINITY_DN19153_c1_g3_i2::g.112871::m.1128	0	0	0	0	0	0	0	0	0	0	0	0	312600	0	364550
TRINITY_DN12257_c1_g1::TRINITY_DN12257_c1_g1_i2::g.11446::m.11446	0	0	0	0	0	0	0	0	0	0	0	0	677080	0	0
TRINITY_DN14137_c0_g1::TRINITY_DN14137_c0_g1_i2::g.33039::m.33039	0	0	0	0	0	0	0	0	0	0	0	0	438730	116430	121450
TRINITY_DN14239_c2_g2::TRINITY_DN14239_c2_g2_i2::g.34369::m.34369	0	0	0	0	0	0	0	0	0	0	0	0	0	448280	228270
TRINITY_DN12628_c0_g1::TRINITY_DN12628_c0_g1_i15::g.14380::m.14380	0	0	52521	0	0	0	239560	147250	0	0	236630	0	0	0	0
TRINITY_DN16315_c0_g1::TRINITY_DN16315_c0_g1_i3::g.65602::m.65602	0	0	0	0	0	0	0	0	0	0	0	0	0	674200	0
TRINITY_DN11202_c0_g1::TRINITY_DN11202_c0_g1_i1::g.6604::m.6604	0	0	0	0	0	0	0	0	0	0	0	0	505230	0	168890

TRINITY_DN12134_c9_g1::TRINITY_DN12134_c9_g1_i4::g.10752::m.10752	0	0	0	0	0	0	0	0	0	0	0	0	282880	389330	0
TRINITY_DN16939_c0_g1::TRINITY_DN16939_c0_g1_i3::g.75902::m.75902	94262	47404	214770	86702	0	0	228460	0	0	0	0	0	0	0	0
TRINITY_DN17688_c2_g3::TRINITY_DN17688_c2_g3_i4::g.88274::m.88274	204510	62325	198490	0	0	0	0	205570	0	0	0	0	0	0	0
TRINITY_DN15001_c1_g2::TRINITY_DN15001_c1_g2_i1::g.45482::m.45482	211090	0	153290	137700	0	0	0	0	0	0	0	0	167200	0	0
TRINITY_DN15894_c0_g1::TRINITY_DN15894_c0_g1_i1::g.58474::m.58474	0	0	0	0	0	0	0	0	0	0	0	0	200210	237860	226960
TRINITY_DN16337_c1_g3::TRINITY_DN16337_c1_g3_i2::g.66071::m.66071	0	0	0	0	0	0	0	0	0	0	0	0	79708	272210	311840
TRINITY_DN13153_c0_g3::TRINITY_DN13153_c0_g3_i1::g.20486::m.20486	0	0	0	0	0	0	168280	132650	0	0	360040	0	0	0	0
TRINITY_DN19578_c1_g1::TRINITY_DN19578_c1_g1_i9::g.120079::m.120079	0	0	0	0	0	0	0	0	0	0	0	0	236610	241100	183140
TRINITY_DN19156_c1_g1::TRINITY_DN19156_c1_g1_i7::g.113150::m.1131	0	0	0	0	166700	0	0	134760	0	0	0	0	0	210950	148090
TRINITY_DN18639_c0_g2::TRINITY_DN18639_c0_g2_i1::g.103472::m.103472	0	0	0	0	0	0	0	0	0	0	0	0	271260	205970	183010
TRINITY_DN17531_c3_g1::TRINITY_DN17531_c3_g1_i2::g.85473::m.85473	0	0	0	0	158370	0	177470	191130	0	0	0	0	0	132650	0
TRINITY_DN9714_c0_g1::TRINITY_DN9714_c0_g1_i2::g.3800::m.3800	0	0	0	0	0	0	0	0	0	0	0	0	527130	132020	0
TRINITY_DN17192_c0_g2::TRINITY_DN17192_c0_g2_i8::g.79905::m.79905	62771	55925	155700	139520	0	0	0	0	0	0	0	0	0	0	243520
TRINITY_DN17561_c0_g1::TRINITY_DN17561_c0_g1_i2::g.86132::m.86132	0	0	0	0	0	0	0	0	0	0	0	0	324060	191350	141150
TRINITY_DN17433_c1_g2::TRINITY_DN17433_c1_g2_i1::g.83589::m.83589	0	0	0	0	0	0	164910	162040	0	0	0	0	327950	0	0
TRINITY_DN14320_c0_g6::TRINITY_DN14320_c0_g6_i4::g.35483::m.35483	0	0	0	0	0	0	175030	0	0	0	0	0	158170	179530	141070
TRINITY_DN13688_c0_g1::TRINITY_DN13688_c0_g1_i3::g.27185::m.27185	33551	0	0	0	0	37376	0	0	0	0	0	580780	0	0	0
TRINITY_DN16402_c0_g3::TRINITY_DN16402_c0_g3_i1::g.67045::m.67045	0	0	0	0	0	0	0	0	0	0	0	0	110680	259490	279080
TRINITY_DN19228_c2_g1::TRINITY_DN19228_c2_g1_i5::g.114244::m.114244	0	0	0	0	0	0	293050	0	0	0	0	0	0	180380	173200
TRINITY_DN16661_c1_g2::TRINITY_DN16661_c1_g2_i5::g.71230::m.71230	0	0	0	0	0	0	0	0	0	0	0	0	228710	0	416470
TRINITY_DN17919_c1_g1::TRINITY_DN17919_c1_g1_i2::g.91916::m.91916	0	0	0	0	0	0	0	0	0	0	0	0	95964	423890	123970

TRINITY_DN19280_c0_g1::TRINITY_DN19280_c0_g1_i5::g.115042::m.115042	0	0	0	0	0	0	0	0	0	0	0	0	146190	311350	184190
TRINITY_DN16384_c1_g4::TRINITY_DN16384_c1_g4_i4::g.66906::m.66906	0	0	0	0	0	0	0	0	0	0	0	0	178260	462930	0
TRINITY_DN11479_c0_g1::TRINITY_DN11479_c0_g1_i6::g.7503::m.7503	0	0	0	0	0	0	0	0	0	0	0	0	276700	0	362280
TRINITY_DN16861_c5_g5::TRINITY_DN16861_c5_g5_i1::g.74534::m.74534	0	0	0	0	0	0	0	0	0	0	0	0	0	638600	0
TRINITY_DN20036_c5_g1::TRINITY_DN20036_c5_g1_i2::g.127587::m.127587	0	0	0	0	0	0	0	0	0	0	0	0	204870	239600	193660
TRINITY_DN16479_c1_g2::TRINITY_DN16479_c1_g2_i4::g.68347::m.68347	216600	0	94385	158860	0	0	0	91751	0	0	0	0	0	0	75457
TRINITY_DN17999_c1_g1::TRINITY_DN17999_c1_g1_i8::g.91779::m.91779	0	0	0	0	0	0	0	0	0	0	0	0	233050	403660	0
TRINITY_DN17673_c0_g1::TRINITY_DN17673_c0_g1_i5::g.88024::m.88024	0	0	0	0	0	0	0	0	0	0	0	0	225960	190470	217180
TRINITY_DN10333_c0_g1::TRINITY_DN10333_c0_g1_i1::g.4649::m.4649	0	0	0	0	0	0	0	0	0	0	0	0	202780	312620	117710
TRINITY_DN13300_c0_g1::TRINITY_DN13300_c0_g1_i5::g.22083::m.22083	0	0	0	0	0	0	0	0	0	0	0	0	146120	158020	326300
TRINITY_DN18283_c0_g1::TRINITY_DN18283_c0_g1_i12::g.98055::m.98055	0	0	0	0	0	0	0	0	0	0	0	0	174830	190750	262460
TRINITY_DN10355_c0_g1::TRINITY_DN10355_c0_g1_i1::g.4689::m.4689	0	0	0	0	0	0	0	0	0	0	0	0	276980	350910	0
TRINITY_DN15356_c1_g1::TRINITY_DN15356_c1_g1_i4::g.50914::m.50914	0	0	0	0	0	0	0	0	0	0	0	0	0	0	627770
TRINITY_DN18321_c2_g1::TRINITY_DN18321_c2_g1_i1::g.98839::m.98839	144050	0	128300	105920	118420	0	0	129890	0	0	0	0	0	0	0
TRINITY_DN13289_c1_g2::TRINITY_DN13289_c1_g2_i4::g.22093::m.22093	0	0	0	0	0	0	0	0	0	0	0	0	193060	244970	188520
TRINITY_DN13288_c0_g1::TRINITY_DN13288_c0_g1_i6::g.22068::m.22068	0	0	59492	0	0	69687	58935	50441	266380	0	0	0	0	0	117350
TRINITY_DN17097_c0_g1::TRINITY_DN17097_c0_g1_i1::g.78356::m.78356	0	0	0	0	0	0	0	0	0	0	0	0	178990	0	442250
TRINITY_DN14079_c0_g2::TRINITY_DN14079_c0_g2_i4::g.32111::m.32111	0	0	0	0	0	0	0	0	0	0	0	0	0	621160	0
TRINITY_DN14601_c2_g1::TRINITY_DN14601_c2_g1_i8::g.39287::m.39287	0	0	0	0	0	0	0	0	0	0	0	0	0	385180	232180
TRINITY_DN17332_c3_g1::TRINITY_DN17332_c3_g1_i4::g.82072::m.82072	0	0	0	0	0	0	0	0	0	0	0	0	122210	201720	291500
TRINITY_DN18983_c0_g1::TRINITY_DN18983_c0_g1_i9::g.110074::m.110074	0	0	0	0	0	0	0	0	0	0	447390	0	0	0	166000

TRINITY_DN17234_c0_g1::TRINITY_DN17234_c0_g1_i11::g.80741::m.80741	0	0	0	0	0	0	0	0	0	0	0	0	286480	159950	165750
TRINITY_DN16222_c0_g1::TRINITY_DN16222_c0_g1_i6::g.64118::m.64118	0	0	0	0	0	0	0	0	0	0	0	0	157160	0	454170
TRINITY_DN15263_c1_g2::TRINITY_DN15263_c1_g2_i4::g.49263::m.49263	0	0	0	25469	0	0	117580	104450	0	0	0	0	181300	0	181880
TRINITY_DN13753_c0_g1::TRINITY_DN13753_c0_g1_i3::g.27858::m.27858	111210	30979	99984	0	0	0	0	166670	0	0	0	0	0	0	201760
TRINITY_DN17360_c0_g1::TRINITY_DN17360_c0_g1_i6::g.82556::m.82556	0	0	0	0	0	0	0	0	0	0	0	0	278800	245940	85324
TRINITY_DN11448_c0_g1::TRINITY_DN11448_c0_g1_i1::g.7372::m.7372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	609550
TRINITY_DN13217_c3_g3::TRINITY_DN13217_c3_g3_i1::g.21250::m.21250	0	0	0	0	0	0	0	0	0	0	0	0	177190	215450	216840
TRINITY_DN13260_c0_g1::TRINITY_DN13260_c0_g1_i2::g.21630::m.21630	0	0	0	0	0	0	0	0	0	0	0	0	182850	424840	0
TRINITY_DN19222_c3_g1::TRINITY_DN19222_c3_g1_i5::g.114236::m.114236	28630	0	25788	136480	126710	0	0	95091	0	0	0	0	0	193850	0
TRINITY_DN10774_c0_g1::TRINITY_DN10774_c0_g1_i7::g.5503::m.5503	0	0	0	0	0	0	0	0	0	0	0	0	306000	0	298120
TRINITY_DN16241_c1_g4::TRINITY_DN16241_c1_g4_i5::g.63753::m.63753	0	0	0	0	0	0	0	0	0	0	0	0	357620	242810	0
TRINITY_DN19395_c1_g4::TRINITY_DN19395_c1_g4_i2::g.117259::m.117259	0	0	0	0	0	0	210380	174440	215590	0	0	0	0	0	0
TRINITY_DN22718_c0_g1::TRINITY_DN22718_c0_g1_i1::g.128985::m.128985	0	0	0	0	0	0	0	0	0	0	305940	294270	0	0	0
TRINITY_DN13284_c0_g1::TRINITY_DN13284_c0_g1_i3::g.21957::m.21957	56277	39197	61306	55399	0	0	0	0	0	0	0	154680	232350	0	0
TRINITY_DN19032_c2_g1::TRINITY_DN19032_c2_g1_i2::g.110806::m.110806	0	0	0	0	0	0	0	0	0	63085	0	0	0	535500	0
TRINITY_DN16806_c1_g1::TRINITY_DN16806_c1_g1_i6::g.73621::m.73621	0	0	0	0	0	0	0	0	0	0	0	0	0	111690	486210
TRINITY_DN14774_c0_g5::TRINITY_DN14774_c0_g5_i3::g.42116::m.42116	0	0	0	0	0	0	0	0	0	0	0	0	168850	214490	212600
TRINITY_DN11806_c0_g1::TRINITY_DN11806_c0_g1_i1::g.8989::m.8989	0	0	0	0	0	0	0	0	0	0	0	0	132760	310220	152130
TRINITY_DN15677_c1_g6::TRINITY_DN15677_c1_g6_i3::g.55549::m.55549	0	0	0	0	0	0	0	0	0	0	0	0	262110	0	331650
TRINITY_DN13179_c1_g1::TRINITY_DN13179_c1_g1_i6::g.20799::m.20799	0	16830	58834	0	316510	72817	128430	0	0	0	0	0	0	0	0

TRINITY_DN14413_c0_g2::TRINITY_DN14413_c0_g2_i2::g.36805::m.36805	0	0	0	0	0	0	0	0	0	0	0	0	114360	335260	142850
TRINITY_DN19247_c0_g1::TRINITY_DN19247_c0_g1_i8::g.114528::m.114528	0	0	0	0	0	174810	414920	0	0	0	0	0	0	0	0
TRINITY_DN17718_c6_g2::TRINITY_DN17718_c6_g2_i4::g.88774::m.88774	0	0	0	0	0	0	0	0	0	0	0	0	289100	174100	125910
TRINITY_DN18436_c0_g2::TRINITY_DN18436_c0_g2_i2::g.100108::m.100108	0	0	0	0	0	0	0	0	0	0	0	0	0	588260	0
TRINITY_DN19343_c7_g2::TRINITY_DN19343_c7_g2_i2::g.116418::m.116418	0	0	0	0	0	0	0	0	231070	0	355750	0	0	0	0
TRINITY_DN18242_c3_g1::TRINITY_DN18242_c3_g1_i7::g.97423::m.97423	0	0	0	0	0	0	0	0	0	0	0	0	263390	322690	0
TRINITY_DN14572_c4_g1::TRINITY_DN14572_c4_g1_i1::g.39016::m.39016	0	0	0	0	0	0	0	0	0	0	0	0	332980	150980	99589
TRINITY_DN13884_c2_g1::TRINITY_DN13884_c2_g1_i6::g.29871::m.29871	0	0	0	0	0	0	0	0	0	0	0	0	117990	95258	368270
TRINITY_DN17016_c4_g1::TRINITY_DN17016_c4_g1_i2::g.77096::m.77096	0	0	0	0	0	0	0	0	0	0	0	0	581220	0	0
TRINITY_DN14069_c0_g5::TRINITY_DN14069_c0_g5_i5::g.32070::m.32070	0	0	0	0	0	0	0	0	0	0	0	0	0	260930	319700
TRINITY_DN17522_c3_g1::TRINITY_DN17522_c3_g1_i3::g.85131::m.85131	0	0	0	0	0	0	0	0	0	0	0	0	262120	317680	0
TRINITY_DN18040_c0_g1::TRINITY_DN18040_c0_g1_i2::g.94127::m.94127	0	0	0	0	0	0	0	0	0	0	0	0	349170	0	229920
TRINITY_DN15831_c4_g2::TRINITY_DN15831_c4_g2_i2::g.57659::m.57659	0	0	0	0	0	0	0	0	0	0	0	0	148380	233310	195790
TRINITY_DN17167_c4_g1::TRINITY_DN17167_c4_g1_i2::g.79586::m.79586	0	0	0	0	0	0	0	0	0	0	0	0	72461	255280	249730
TRINITY_DN14538_c2_g2::TRINITY_DN14538_c2_g2_i9::g.38508::m.38508	0	0	0	0	0	0	0	0	0	0	0	0	255170	157440	159450
TRINITY_DN16535_c0_g2::TRINITY_DN16535_c0_g2_i8::g.69172::m.69172	0	0	0	0	0	0	0	0	0	0	0	0	199230	189550	183130
TRINITY_DN14304_c1_g1::TRINITY_DN14304_c1_g1_i6::g.35219::m.35219	0	0	0	0	0	0	0	0	0	0	0	0	242300	328440	0
TRINITY_DN19010_c0_g2::TRINITY_DN19010_c0_g2_i1::g.110437::m.110437	103060	45273	84574	72586	0	0	0	0	0	0	261830	0	0	0	0
TRINITY_DN16594_c0_g2::TRINITY_DN16594_c0_g2_i1::g.69960::m.69960	0	0	0	0	0	0	0	0	0	0	0	0	0	376090	190540

TRINITY_DN19775_c1_g1::TRINITY_DN19775_c1_g1_i3::g.123478::m.123478	0	0	0	0	0	0	0	0	0	0	0	0	130960	300380	135130
TRINITY_DN12386_c0_g1::TRINITY_DN12386_c0_g1_i3::g.12387::m.12387	0	28764	0	0	0	0	0	0	0	0	0	0	187930	348560	0
TRINITY_DN13587_c1_g3::TRINITY_DN13587_c1_g3_i8::g.25768::m.25768	0	0	0	0	0	0	0	0	0	0	0	0	0	338870	226010
TRINITY_DN15400_c1_g2::TRINITY_DN15400_c1_g2_i8::g.50620::m.50620	0	0	0	0	0	86058	0	197500	0	0	0	0	278690	0	0
TRINITY_DN14459_c0_g1::TRINITY_DN14459_c0_g1_i2::g.37381::m.37381	0	0	0	0	0	0	0	112730	0	0	0	0	209490	239960	0
TRINITY_DN11301_c0_g1::TRINITY_DN11301_c0_g1_i2::g.6892::m.6892	0	0	0	0	0	0	0	0	0	0	0	0	181050	138640	241810
TRINITY_DN15762_c0_g1::TRINITY_DN15762_c0_g1_i1::g.56697::m.56697	0	0	0	0	0	0	0	0	0	0	0	0	235350	0	325880
TRINITY_DN15598_c1_g1::TRINITY_DN15598_c1_g1_i2::g.54269::m.54269	0	0	0	0	0	0	0	0	0	0	0	0	264410	155130	140360
TRINITY_DN11950_c0_g1::TRINITY_DN11950_c0_g1_i3::g.9633::m.9633	0	0	0	0	0	0	0	0	0	0	0	0	132710	260450	166720
TRINITY_DN11646_c0_g1::TRINITY_DN11646_c0_g1_i1::g.8053::m.8053	0	0	0	0	0	0	0	0	0	0	0	0	137650	421240	0
TRINITY_DN15411_c1_g1::TRINITY_DN15411_c1_g1_i1::g.51593::m.51593	0	0	0	0	0	0	0	0	126300	0	0	0	0	431420	0
TRINITY_DN16682_c4_g1::TRINITY_DN16682_c4_g1_i2::g.71560::m.71560	0	0	0	0	0	0	0	0	0	0	0	0	164120	151300	242240
TRINITY_DN18037_c1_g1::TRINITY_DN18037_c1_g1_i9::g.94092::m.94092	0	0	0	0	0	0	0	0	0	0	0	0	0	358570	197460
TRINITY_DN15485_c1_g1::TRINITY_DN15485_c1_g1_i8::g.52679::m.52679	0	0	0	0	0	0	0	0	0	0	0	0	252250	300420	0
TRINITY_DN14982_c0_g1::TRINITY_DN14982_c0_g1_i9::g.45222::m.45222	0	0	0	0	0	0	0	0	0	0	0	0	88551	243430	219980
TRINITY_DN19482_c6_g1::TRINITY_DN19482_c6_g1_i8::g.118606::m.118606	0	0	0	0	0	0	0	0	0	0	0	0	240610	309380	0
TRINITY_DN14898_c0_g1::TRINITY_DN14898_c0_g1_i2::g.43888::m.43888	0	0	0	0	0	0	0	0	0	0	0	0	0	330560	219430
TRINITY_DN16344_c0_g1::TRINITY_DN16344_c0_g1_i6::g.66181::m.66181	0	0	0	0	132080	0	0	0	0	0	0	0	199870	0	217240
TRINITY_DN16793_c3_g3::TRINITY_DN16793_c3_g3_i3::g.73369::m.73369	0	0	0	0	0	0	0	0	0	0	0	0	154390	210400	184010
TRINITY_DN15444_c2_g1::TRINITY_DN15444_c2_g1_i4::g.52046::m.52046	0	0	0	0	0	0	0	0	0	0	0	0	0	0	546770
TRINITY_DN17936_c4_g1::TRINITY_DN17936_c4_g1_i9::g.92365::m.92365	0	0	0	0	0	0	0	0	0	0	0	0	257920	286780	0

TRINITY_DN18579_c2_g2::TRINITY_DN18579_c2_g2_i4::g.102900::m.102900	0	0	0	0	0	0	0	0	0	0	0	0	158800	155470	225760
TRINITY_DN14828_c0_g3::TRINITY_DN14828_c0_g3_i7::g.43009::m.43009	0	0	0	0	0	0	0	0	0	0	0	212880	161730	0	165310
TRINITY_DN16126_c1_g1::TRINITY_DN16126_c1_g1_i17::g.62053::m.62053	0	0	0	0	0	0	0	0	0	0	0	0	0	249180	287010
TRINITY_DN16055_c0_g1::TRINITY_DN16055_c0_g1_i6::g.61225::m.61225	0	0	0	0	0	0	0	0	0	0	0	0	123420	189490	222280
TRINITY_DN17454_c3_g1::TRINITY_DN17454_c3_g1_i1::g.84103::m.84103	68392	0	70501	78566	0	0	0	148780	0	0	0	0	0	0	167010
TRINITY_DN17924_c2_g1::TRINITY_DN17924_c2_g1_i1::g.91979::m.91979	0	0	0	0	186990	0	249560	0	0	0	0	0	0	0	94293
TRINITY_DN14710_c1_g2::TRINITY_DN14710_c1_g2_i5::g.41059::m.41059	0	0	0	0	0	0	0	0	0	0	0	0	0	0	530420
TRINITY_DN12060_c0_g1::TRINITY_DN12060_c0_g1_i2::g.10212::m.10212	0	0	0	0	0	0	0	0	0	0	0	0	0	187860	341990
TRINITY_DN14479_c0_g2::TRINITY_DN14479_c0_g2_i3::g.37670::m.37670	0	0	0	0	0	0	0	0	0	0	0	0	0	255400	273860
TRINITY_DN13943_c0_g2::TRINITY_DN13943_c0_g2_i1::g.30525::m.30525	0	0	0	0	0	0	0	0	0	0	0	0	0	127840	401390
TRINITY_DN17241_c0_g1::TRINITY_DN17241_c0_g1_i1::g.80827::m.80827	0	0	0	0	0	0	0	78352	0	0	0	0	161450	147650	140830
TRINITY_DN17619_c0_g2::TRINITY_DN17619_c0_g2_i5::g.87168::m.87168	0	0	0	0	0	0	0	0	0	0	0	0	0	0	527410
TRINITY_DN17406_c4_g1::TRINITY_DN17406_c4_g1_i2::g.83243::m.83243	0	0	0	0	0	0	0	0	0	0	0	0	0	526100	0
TRINITY_DN17708_c1_g1::TRINITY_DN17708_c1_g1_i3::g.88548::m.88548	0	0	0	0	0	0	0	0	0	0	0	0	105930	159570	259740
TRINITY_DN13981_c1_g3::TRINITY_DN13981_c1_g3_i1::g.30911::m.30911	0	0	0	0	0	0	0	0	0	0	0	0	0	398320	126800
TRINITY_DN15411_c1_g2::TRINITY_DN15411_c1_g2_i10::g.51619::m.5161	112760	0	122800	119700	0	0	0	0	0	0	0	0	0	83758	84834
TRINITY_DN16049_c0_g2::TRINITY_DN16049_c0_g2_i3::g.60387::m.60387	0	0	0	0	0	0	0	0	0	0	0	0	0	263440	259390
TRINITY_DN16235_c0_g1::TRINITY_DN16235_c0_g1_i5::g.64344::m.64344	0	0	0	0	0	0	0	0	0	0	0	0	0	320190	202400
TRINITY_DN19621_c6_g3::TRINITY_DN19621_c6_g3_i2::g.120980::m.120980	0	0	0	0	0	0	0	0	0	0	0	0	159520	232030	130930
TRINITY_DN11269_c0_g1::TRINITY_DN11269_c0_g1_i4::g.6758::m.6758	0	0	0	0	0	0	0	0	0	0	0	0	0	0	520710

TRINITY_DN15638_c0_g2::TRINITY_DN15638_c0_g2_i2::g.54677::m.54677	0	0	0	0	0	0	519950	0	0	0	0	0	0	0	0
TRINITY_DN10146_c0_g1::TRINITY_DN10146_c0_g1_i1::g.4308::m.4308	0	0	0	0	0	0	0	0	0	0	0	102640	0	260600	156230
TRINITY_DN13752_c3_g3::TRINITY_DN13752_c3_g3_i1::g.27967::m.27967	33909	0	0	57456	0	0	0	0	0	0	0	0	181490	246490	0
TRINITY_DN15810_c0_g1::TRINITY_DN15810_c0_g1_i2::g.57313::m.57313	0	0	0	0	0	0	0	0	0	0	0	0	151900	226370	140920
TRINITY_DN19614_c2_g7::TRINITY_DN19614_c2_g7_i3::g.120831::m.120831	0	0	0	0	0	0	0	0	0	0	0	0	54684	168640	292810
TRINITY_DN15371_c0_g2::TRINITY_DN15371_c0_g2_i1::g.50837::m.50837	0	0	0	0	0	0	0	0	0	42701	0	0	151100	166460	152880
TRINITY_DN13573_c3_g3::TRINITY_DN13573_c3_g3_i2::g.25665::m.25665	0	0	0	0	0	0	0	0	0	0	0	0	194900	173290	144470
TRINITY_DN17808_c3_g2::TRINITY_DN17808_c3_g2_i3::g.89986::m.89986	67241	25390	140560	125100	0	0	0	0	0	0	153640	0	0	0	0
TRINITY_DN17336_c6_g1::TRINITY_DN17336_c6_g1_i1::g.82089::m.82089	0	0	0	0	0	0	0	0	0	0	0	0	240550	104940	164290
TRINITY_DN17735_c1_g2::TRINITY_DN17735_c1_g2_i2::g.89035::m.89035	0	0	0	50854	0	0	0	0	0	0	0	0	133610	165110	157740
TRINITY_DN16119_c4_g1::TRINITY_DN16119_c4_g1_i1::g.62575::m.62575	0	0	0	0	0	0	0	0	0	0	0	0	446720	0	59641
TRINITY_DN16898_c0_g1::TRINITY_DN16898_c0_g1_i2::g.75056::m.75056	57446	0	47455	50957	0	0	0	0	0	0	0	0	0	348270	0
TRINITY_DN17578_c2_g1::TRINITY_DN17578_c2_g1_i2::g.85652::m.85652	0	0	0	0	0	0	0	0	0	0	0	0	139930	193280	170900
TRINITY_DN17051_c1_g1::TRINITY_DN17051_c1_g1_i6::g.77580::m.77580	0	0	0	0	0	0	0	0	0	0	0	0	193270	142120	168430
TRINITY_DN13889_c0_g1::TRINITY_DN13889_c0_g1_i2::g.29853::m.29853	0	0	0	0	0	0	0	0	0	0	0	0	363680	0	138000
TRINITY_DN15642_c0_g3::TRINITY_DN15642_c0_g3_i1::g.55086::m.55086	0	0	0	0	0	0	0	0	0	0	0	0	238820	0	261890
TRINITY_DN12917_c0_g1::TRINITY_DN12917_c0_g1_i8::g.17363::m.17363	0	0	0	0	0	0	0	0	0	0	0	0	0	115140	384800
TRINITY_DN18228_c1_g3::TRINITY_DN18228_c1_g3_i10::g.97346::m.97346	0	0	0	0	0	0	0	0	0	0	0	0	297800	0	200510
TRINITY_DN14656_c1_g3::TRINITY_DN14656_c1_g3_i2::g.40036::m.40036	0	0	0	0	0	0	0	0	0	0	0	0	0	497920	0
TRINITY_DN17427_c0_g1::TRINITY_DN17427_c0_g1_i5::g.83626::m.83626	497840	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TRINITY_DN12519_c1_g2::TRINITY_DN12519_c1_g2_i2::g.13489::m.13489	0	0	35910	0	0	0	0	0	0	0	461110	0	0	0	0
TRINITY_DN16485_c1_g1::TRINITY_DN16485_c1_g1_i5::g.68172::m.68172	0	0	0	0	0	0	0	0	0	0	0	0	495680	0	0
TRINITY_DN16382_c2_g3::TRINITY_DN16382_c2_g3_i2::g.66735::m.66735	0	0	0	0	0	0	0	0	0	0	0	0	368440	122630	0
TRINITY_DN12471_c0_g1::TRINITY_DN12471_c0_g1_i6::g.13129::m.13129	0	0	0	0	0	0	0	0	0	0	0	0	251140	237490	0
TRINITY_DN13404_c2_g1::TRINITY_DN13404_c2_g1_i2::g.23444::m.23444	0	0	0	0	0	174230	0	312880	0	0	0	0	0	0	0
TRINITY_DN13849_c3_g3::TRINITY_DN13849_c3_g3_i8::g.28501::m.28501	0	0	0	0	0	0	0	0	0	0	0	0	0	0	486290
TRINITY_DN10714_c0_g1::TRINITY_DN10714_c0_g1_i7::g.5396::m.5396	0	0	0	0	0	0	0	0	0	0	0	0	304200	0	181800
TRINITY_DN17727_c1_g3::TRINITY_DN17727_c1_g3_i1::g.88887::m.88887	0	0	0	0	0	0	0	0	0	0	0	0	187600	298030	0
TRINITY_DN13894_c1_g1::TRINITY_DN13894_c1_g1_i8::g.29999::m.29999	0	0	0	0	0	0	0	0	0	0	0	0	246720	236940	0
TRINITY_DN15301_c2_g1::TRINITY_DN15301_c2_g1_i12::g.49765::m.49765	0	0	0	0	0	0	0	0	0	0	0	0	0	0	481650
TRINITY_DN17157_c0_g1::TRINITY_DN17157_c0_g1_i2::g.79386::m.79386	0	0	0	0	0	0	0	0	0	0	0	0	176700	159870	144510
TRINITY_DN19995_c2_g1::TRINITY_DN19995_c2_g1_i2::g.127478::m.127478	60059	0	53816	0	0	0	0	0	0	0	0	0	0	0	366420
TRINITY_DN13004_c2_g2::TRINITY_DN13004_c2_g2_i3::g.18474::m.18474	57276	31490	57332	57703	0	0	0	0	276200	0	0	0	0	0	0
TRINITY_DN10567_c0_g1::TRINITY_DN10567_c0_g1_i2::g.5026::m.5026	0	0	30306	0	0	0	0	0	0	0	159000	0	0	0	290320
TRINITY_DN18294_c2_g1::TRINITY_DN18294_c2_g1_i3::g.98438::m.98438	0	0	0	0	0	0	0	0	0	0	0	0	409360	69784	0
TRINITY_DN16056_c1_g1::TRINITY_DN16056_c1_g1_i8::g.61254::m.61254	0	0	0	0	0	0	0	0	0	0	0	0	185530	0	292030
TRINITY_DN13008_c2_g1::TRINITY_DN13008_c2_g1_i1::g.18585::m.18585	0	0	0	0	76183	0	0	0	0	0	0	401300	0	0	0
TRINITY_DN12353_c0_g1::TRINITY_DN12353_c0_g1_i1::g.12504::m.12504	0	0	0	0	0	0	0	0	0	0	0	0	110350	215480	149270
TRINITY_DN19066_c1_g3::TRINITY_DN19066_c1_g3_i1::g.111236::m.111236	0	0	0	0	0	0	0	0	0	0	0	0	0	114170	360450
TRINITY_DN17441_c2_g4::TRINITY_DN17441_c2_g4_i3::g.83805::m.83805	0	0	0	0	0	0	0	0	0	0	0	0	219870	0	254600
TRINITY_DN1382_c0_g1::TRINITY_DN1382_c0_g1_i1::g.348::m.348	0	0	0	0	0	74401	0	122190	276930	0	0	0	0	0	0

TRINITY_DN17113_c0_g1::TRINITY_DN17113_c0_g1_i1::g.78814::m.78814	0	0	0	0	0	0	0	0	0	0	0	0	238830	0	234500
TRINITY_DN19775_c0_g3::TRINITY_DN19775_c0_g3_i2::g.123476::m.123476	22233	0	0	0	0	0	0	0	0	0	0	0	0	0	449370
TRINITY_DN12824_c1_g1::TRINITY_DN12824_c1_g1_i1::g.16233::m.16233	0	0	0	0	0	0	0	0	0	0	0	0	237550	0	233890
TRINITY_DN11410_c0_g1::TRINITY_DN11410_c0_g1_i1::g.7283::m.7283	0	0	0	142390	0	0	0	0	0	0	0	196170	131530	0	0
TRINITY_DN14617_c1_g1::TRINITY_DN14617_c1_g1_i9::g.39676::m.39676	0	0	0	0	0	0	0	0	0	0	0	0	71627	90724	305840
TRINITY_DN11064_c0_g2::TRINITY_DN11064_c0_g2_i1::g.6238::m.6238	0	0	0	0	0	0	0	0	0	0	0	0	132910	174260	157900
TRINITY_DN14194_c1_g1::TRINITY_DN14194_c1_g1_i9::g.33557::m.33557	0	0	0	0	0	0	0	0	0	0	0	0	154650	162300	148060
TRINITY_DN9434_c0_g1::TRINITY_DN9434_c0_g1_i2::g.3474::m.3474	0	0	0	0	0	0	0	0	103420	0	0	0	104370	132440	124230
TRINITY_DN16217_c1_g2::TRINITY_DN16217_c1_g2_i5::g.64084::m.64084	0	0	0	0	0	0	0	0	0	0	0	0	0	213840	249860
TRINITY_DN16504_c2_g1::TRINITY_DN16504_c2_g1_i5::g.68713::m.68713	115050	57121	147500	143430	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN14373_c0_g1::TRINITY_DN14373_c0_g1_i5::g.36002::m.36002	0	0	0	0	175280	103450	0	0	184090	0	0	0	0	0	0
TRINITY_DN19595_c1_g1::TRINITY_DN19595_c1_g1_i3::g.120443::m.120443	0	0	0	0	0	0	0	0	0	0	0	0	0	298140	164630
TRINITY_DN16684_c1_g1::TRINITY_DN16684_c1_g1_i1::g.71521::m.71521	0	0	0	0	0	0	0	0	0	0	0	0	0	0	462620
TRINITY_DN18955_c3_g1::TRINITY_DN18955_c3_g1_i8::g.109317::m.109317	0	0	0	42187	0	0	0	0	0	0	0	0	0	205040	214120
TRINITY_DN19877_c3_g4::TRINITY_DN19877_c3_g4_i1::g.125024::m.125024	44765	0	48035	36364	0	0	0	167270	0	0	0	0	0	0	164630
TRINITY_DN11684_c0_g1::TRINITY_DN11684_c0_g1_i1::g.8363::m.8363	0	0	0	0	0	0	0	0	0	0	0	0	139740	163780	157210
TRINITY_DN16471_c14_g1::TRINITY_DN16471_c14_g1_i3::g.68132::m.68132	0	0	0	0	0	0	0	0	0	0	0	0	218860	0	241500
TRINITY_DN15705_c0_g3::TRINITY_DN15705_c0_g3_i5::g.56096::m.56096	0	0	0	0	0	0	0	0	0	0	0	0	338710	120930	0
TRINITY_DN14658_c2_g1::TRINITY_DN14658_c2_g1_i2::g.40152::m.40152	78556	0	39738	0	0	0	0	0	0	117930	0	0	110730	111720	0
TRINITY_DN16640_c0_g1::TRINITY_DN16640_c0_g1_i4::g.70902::m.70902	0	0	0	0	0	0	0	0	0	0	0	0	148050	144130	166200
TRINITY_DN12745_c0_g1::TRINITY_DN12745_c0_g1_i6::g.15122::m.15122	0	0	0	0	0	0	0	0	0	0	0	0	0	241810	215130
TRINITY_DN13091_c0_g2::TRINITY_DN13091_c0_g2_i2::g.19654::m.19654	0	0	0	0	0	0	0	0	290880	0	0	0	0	165700	0

TRINITY_DN19627_c1_g1::TRINITY_DN19627_c1_g1_i2::g.121157::m.1211	0	0	0	0	0	0	0	0	0	0	0	0	97805	204390	154130
TRINITY_DN10469_c0_g1::TRINITY_DN10469_c0_g1_i1::g.4851::m.4851	0	0	0	0	0	0	0	0	0	0	0	0	0	362670	93402
TRINITY_DN16987_c2_g1::TRINITY_DN16987_c2_g1_i9::g.76589::m.76589	93750	0	91198	111420	0	0	0	0	0	0	0	0	80547	0	78964
TRINITY_DN19240_c1_g1::TRINITY_DN19240_c1_g1_i5::g.114383::m.114383	0	0	0	0	0	0	0	0	0	0	0	0	0	0	454800
TRINITY_DN14334_c2_g6::TRINITY_DN14334_c2_g6_i1::g.35159::m.35159	0	0	0	0	0	0	0	0	0	0	0	0	306780	0	145960
TRINITY_DN18647_c1_g1::TRINITY_DN18647_c1_g1_i1::g.103820::m.103820	0	0	0	0	0	0	0	0	0	0	0	0	118140	333600	0
TRINITY_DN16308_c0_g1::TRINITY_DN16308_c0_g1_i5::g.65986::m.65986	0	0	0	0	0	0	0	0	0	0	0	0	94180	171130	181850
TRINITY_DN16705_c7_g1::TRINITY_DN16705_c7_g1_i5::g.72000::m.72000	0	0	0	0	0	0	0	0	0	0	0	0	115890	180870	150270
TRINITY_DN10617_c0_g1::TRINITY_DN10617_c0_g1_i2::g.5120::m.5120	0	0	0	0	0	0	0	0	0	445140	0	0	0	0	0
TRINITY_DN13025_c0_g1::TRINITY_DN13025_c0_g1_i1::g.18736::m.18736	0	0	0	0	0	0	0	0	0	0	0	0	0	107340	337290
TRINITY_DN16744_c0_g2::TRINITY_DN16744_c0_g2_i2::g.72603::m.72603	0	0	0	0	0	0	0	0	0	0	0	0	69525	0	373750
TRINITY_DN15178_c0_g1::TRINITY_DN15178_c0_g1_i16::g.47873::m.47873	0	0	0	0	0	0	0	0	0	0	0	0	0	343360	98824
TRINITY_DN16466_c0_g1::TRINITY_DN16466_c0_g1_i6::g.67994::m.67994	0	0	0	0	0	0	0	0	0	0	0	0	0	237750	202700
TRINITY_DN18466_c3_g1::TRINITY_DN18466_c3_g1_i19::g.101050::m.101050	0	0	0	0	440290	0	0	0	0	0	0	0	0	0	0
TRINITY_DN13825_c0_g1::TRINITY_DN13825_c0_g1_i3::g.28848::m.28848	0	0	0	140050	0	0	0	0	0	0	0	0	0	299960	0
TRINITY_DN12167_c0_g1::TRINITY_DN12167_c0_g1_i7::g.10902::m.10902	0	0	0	0	0	0	0	0	0	0	0	0	230000	0	205460
TRINITY_DN18952_c2_g1::TRINITY_DN18952_c2_g1_i9::g.109479::m.109479	0	0	0	0	0	0	0	0	0	0	0	0	203770	0	231440
TRINITY_DN13110_c0_g1::TRINITY_DN13110_c0_g1_i3::g.20012::m.20012	0	0	0	0	0	0	0	0	0	0	0	0	0	245890	187820
TRINITY_DN14898_c0_g2::TRINITY_DN14898_c0_g2_i1::g.43887::m.43887	0	0	0	0	0	0	0	0	0	0	0	0	146950	155900	129720
TRINITY_DN14096_c0_g2::TRINITY_DN14096_c0_g2_i2::g.32310::m.32310	0	0	0	0	0	0	0	0	0	0	0	0	133730	145170	153580

TRINITY_DN15203_c1_g1::TRINITY_DN15203_c1_g1_i19::g.48562::m.48562	0	0	0	0	0	0	0	0	0	0	0	0	139220	162780	129700
TRINITY_DN18497_c0_g1::TRINITY_DN18497_c0_g1_i7::g.101435::m.101435	0	0	0	0	0	0	0	0	0	0	0	0	0	277180	153850
TRINITY_DN16464_c0_g1::TRINITY_DN16464_c0_g1_i9::g.67881::m.67881	0	0	0	0	0	0	0	0	0	0	0	0	188790	241610	0
TRINITY_DN10374_c0_g1::TRINITY_DN10374_c0_g1_i1::g.4693::m.4693	0	0	0	0	0	0	0	0	0	0	0	0	121760	308600	0
TRINITY_DN16131_c0_g1::TRINITY_DN16131_c0_g1_i1::g.62590::m.62590	0	0	0	0	0	0	0	0	0	0	0	0	0	233850	195550
TRINITY_DN13858_c6_g1::TRINITY_DN13858_c6_g1_i3::g.29437::m.29437	0	0	0	0	0	0	0	0	0	0	0	0	280430	148860	0
TRINITY_DN17229_c1_g1::TRINITY_DN17229_c1_g1_i16::g.80496::m.80496	210010	0	0	0	0	0	0	0	0	0	0	0	0	0	218980
TRINITY_DN16551_c0_g1::TRINITY_DN16551_c0_g1_i1::g.69240::m.69240	0	0	0	0	0	0	0	0	0	0	0	0	0	304710	122890
TRINITY_DN14041_c3_g1::TRINITY_DN14041_c3_g1_i2::g.31810::m.31810	0	0	0	0	0	0	0	0	0	0	0	0	246150	0	181260
TRINITY_DN12986_c2_g1::TRINITY_DN12986_c2_g1_i7::g.17676::m.17676	0	0	0	0	0	0	0	0	0	0	0	0	110340	314900	0
TRINITY_DN19621_c4_g1::TRINITY_DN19621_c4_g1_i2::g.120970::m.120970	0	133940	0	291270	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN10293_c0_g1::TRINITY_DN10293_c0_g1_i1::g.4492::m.4492	0	0	0	0	0	0	0	0	0	0	0	0	199860	224850	0
TRINITY_DN14175_c1_g1::TRINITY_DN14175_c1_g1_i3::g.33680::m.33680	4300,5	0	0	0	0	0	0	0	0	0	0	0	130110	290070	0
TRINITY_DN15828_c0_g1::TRINITY_DN15828_c0_g1_i4::g.57452::m.57452	0	0	0	0	0	0	0	0	0	0	0	0	185590	0	238600
TRINITY_DN17792_c0_g5::TRINITY_DN17792_c0_g5_i3::g.89751::m.89751	0	0	0	0	0	0	240570	182860	0	0	0	0	0	0	0
TRINITY_DN12837_c2_g2::TRINITY_DN12837_c2_g2_i1::g.16572::m.16572	70472	34058	231560	84655	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN17217_c1_g1::TRINITY_DN17217_c1_g1_i9::g.80247::m.80247	0	0	0	0	0	0	0	0	0	0	0	0	225360	0	194870
TRINITY_DN14939_c1_g3::TRINITY_DN14939_c1_g3_i3::g.44686::m.44686	0	0	41661	133550	0	0	0	0	0	0	0	0	143740	0	100070
TRINITY_DN16528_c1_g1::TRINITY_DN16528_c1_g1_i4::g.69093::m.69093	111390	42882	187610	76354	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN17896_c3_g1::TRINITY_DN17896_c3_g1_i3::g.91440::m.91440	0	0	0	0	0	0	0	0	0	0	0	0	120190	156120	140280
TRINITY_DN13512_c0_g2::TRINITY_DN13512_c0_g2_i1::g.24706::m.24706	79120	0	92679	63913	180750	0	0	0	0	0	0	0	0	0	0

TRINITY_DN18396_c2_g1::TRINITY_DN18396_c2_g1_i1::g.99882::m.99882	0	0	0	0	0	0	0	0	0	0	0	0	128580	164220	123510
TRINITY_DN14316_c0_g1::TRINITY_DN14316_c0_g1_i5::g.35352::m.35352	0	0	0	0	0	0	0	0	0	0	0	0	0	277730	138170
TRINITY_DN19110_c2_g1::TRINITY_DN19110_c2_g1_i2::g.112351::m.1123	0	0	0	0	0	0	0	0	0	0	0	0	245060	0	170780
TRINITY_DN19639_c3_g1::TRINITY_DN19639_c3_g1_i7::g.121291::m.121291	0	20990	0	0	0	0	0	0	0	0	0	0	195510	0	198230
TRINITY_DN14977_c0_g1::TRINITY_DN14977_c0_g1_i14::g.45080::m.45080	0	0	0	0	0	0	0	0	0	0	0	0	295300	0	118790
TRINITY_DN19335_c0_g3::TRINITY_DN19335_c0_g3_i4::g.116290::m.116290	0	0	0	0	0	0	0	0	0	0	0	0	0	207600	206130
TRINITY_DN17394_c0_g1::TRINITY_DN17394_c0_g1_i5::g.83048::m.83048	0	0	0	0	0	0	0	0	0	0	0	0	117190	149730	146150
TRINITY_DN15312_c1_g1::TRINITY_DN15312_c1_g1_i7::g.50104::m.50104	0	0	0	0	0	0	0	0	0	0	0	0	129460	158270	124840
TRINITY_DN14520_c0_g2::TRINITY_DN14520_c0_g2_i5::g.38465::m.38465	0	0	0	0	0	0	0	0	0	0	0	0	0	320190	91926
TRINITY_DN19082_c3_g2::TRINITY_DN19082_c3_g2_i2::g.111602::m.111602	0	0	0	0	0	0	0	0	0	0	0	0	182600	0	228820
TRINITY_DN17990_c1_g1::TRINITY_DN17990_c1_g1_i2::g.93320::m.93320	0	0	0	0	0	0	0	0	0	0	0	271870	0	139280	0
TRINITY_DN10955_c0_g1::TRINITY_DN10955_c0_g1_i1::g.5913::m.5913	0	0	0	0	0	0	0	0	0	0	0	0	408980	0	0
TRINITY_DN10864_c0_g1::TRINITY_DN10864_c0_g1_i1::g.5678::m.5678	0	0	0	0	0	0	0	0	0	0	0	0	0	225210	180620
TRINITY_DN18372_c2_g6::TRINITY_DN18372_c2_g6_i1::g.99517::m.99517	0	0	0	0	0	0	0	0	0	0	0	0	0	0	405580
TRINITY_DN17198_c0_g1::TRINITY_DN17198_c0_g1_i4::g.79878::m.79878	0	0	0	0	0	0	0	0	256550	0	148950	0	0	0	0
TRINITY_DN19333_c1_g1::TRINITY_DN19333_c1_g1_i1::g.116168::m.1161	0	0	0	0	0	0	0	0	0	0	0	0	314070	0	90069
TRINITY_DN13608_c0_g1::TRINITY_DN13608_c0_g1_i3::g.26161::m.26161	0	0	0	0	0	0	0	0	0	0	0	0	159110	0	244050
TRINITY_DN17268_c0_g1::TRINITY_DN17268_c0_g1_i4::g.80463::m.80463	0	0	0	0	0	0	0	0	0	0	0	0	94198	107680	200460
TRINITY_DN11329_c0_g1::TRINITY_DN11329_c0_g1_i1::g.6996::m.6996	0	0	402040	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN17556_c3_g1::TRINITY_DN17556_c3_g1_i1::g.85912::m.85912	0	0	0	0	0	0	0	0	0	0	0	0	0	184370	217090
TRINITY_DN14486_c0_g4::TRINITY_DN14486_c0_g4_i1::g.37922::m.37922	0	0	0	0	0	0	0	0	0	0	0	400120	0	0	0
TRINITY_DN19016_c1_g5::TRINITY_DN19016_c1_g5_i1::g.110613::m.1106	0	0	0	0	0	0	0	0	0	0	0	0	185310	214260	0

TRINITY_DN19612_c1_g2::TRINITY_DN19612_c1_g2_i7::g.120818::m.120818	0	0	0	0	0	0	0	0	0	0	0	0	177700	0	221030
TRINITY_DN13825_c0_g2::TRINITY_DN13825_c0_g2_i4::g.28851::m.28851	0	0	0	74368	0	0	0	161140	0	0	0	0	0	162830	0
TRINITY_DN10767_c0_g1::TRINITY_DN10767_c0_g1_i1::g.5469::m.5469	0	0	0	0	0	0	0	99164	0	0	0	0	0	135050	163690
TRINITY_DN14408_c0_g1::TRINITY_DN14408_c0_g1_i2::g.36628::m.36628	0	0	0	0	0	0	0	0	0	0	0	0	185350	0	211740
TRINITY_DN16867_c0_g1::TRINITY_DN16867_c0_g1_i8::g.74659::m.74659	0	0	0	0	0	0	0	0	0	0	0	0	119100	0	277150
TRINITY_DN12184_c0_g1::TRINITY_DN12184_c0_g1_i1::g.10535::m.10535	0	0	0	0	0	0	0	0	0	0	0	0	0	96247	299760
TRINITY_DN19255_c4_g1::TRINITY_DN19255_c4_g1_i5::g.114861::m.114861	0	0	0	0	0	0	0	0	0	0	0	0	0	142060	253870
TRINITY_DN18745_c0_g4::TRINITY_DN18745_c0_g4_i1::g.105401::m.105401	0	0	0	0	0	0	0	0	0	0	0	0	175950	218160	0
TRINITY_DN15579_c2_g1::TRINITY_DN15579_c2_g1_i2::g.54035::m.54035	105310	0	157230	130000	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN19014_c2_g2::TRINITY_DN19014_c2_g2_i15::g.110588::m.110588	0	0	0	0	0	0	0	0	0	0	0	0	391660	0	0
TRINITY_DN13959_c0_g2::TRINITY_DN13959_c0_g2_i7::g.30593::m.30593	0	0	0	0	0	0	0	0	0	0	0	0	0	146560	242510
TRINITY_DN17096_c2_g1::TRINITY_DN17096_c2_g1_i4::g.78253::m.78253	0	0	0	0	0	0	0	0	0	0	0	0	124090	130140	129930
TRINITY_DN15860_c0_g1::TRINITY_DN15860_c0_g1_i3::g.57901::m.57901	0	0	0	0	0	0	0	0	0	0	0	0	0	195690	187590
TRINITY_DN12503_c2_g1::TRINITY_DN12503_c2_g1_i3::g.13440::m.13440	0	0	0	0	0	0	0	0	0	0	0	0	203690	78827	99897
TRINITY_DN14356_c4_g1::TRINITY_DN14356_c4_g1_i9::g.35853::m.35853	0	0	0	0	0	0	0	0	0	0	0	0	74330	215510	92413
TRINITY_DN14761_c1_g4::TRINITY_DN14761_c1_g4_i4::g.41839::m.41839	0	0	0	0	0	0	0	0	0	0	0	0	111490	172010	98523
TRINITY_DN16683_c2_g2::TRINITY_DN16683_c2_g2_i1::g.71583::m.71583	0	0	0	0	0	0	0	0	0	0	0	0	219590	115750	45838
TRINITY_DN13437_c2_g2::TRINITY_DN13437_c2_g2_i2::g.23355::m.23355	0	0	0	0	0	0	0	0	0	0	0	0	72228	109860	196210
TRINITY_DN13537_c0_g1::TRINITY_DN13537_c0_g1_i2::g.25155::m.25155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	376440

TRINITY_DN13720_c0_g6::TRINITY_DN13720_c0_g6_i1::g.27649::m.27649	0	0	0	0	0	0	0	0	0	0	0	0	0	374920	0
TRINITY_DN15113_c1_g1::TRINITY_DN15113_c1_g1_i9::g.47525::m.47525	0	0	0	0	98205	0	0	0	0	0	0	0	0	0	274980
TRINITY_DN18151_c1_g8::TRINITY_DN18151_c1_g8_i1::g.95937::m.95937	0	0	87416	0	194720	90521	0	0	0	0	0	0	0	0	0
TRINITY_DN16542_c2_g2::TRINITY_DN16542_c2_g2_i16::g.69553::m.69553	0	0	0	0	0	0	0	0	0	0	0	0	211440	160930	0
TRINITY_DN17965_c0_g2::TRINITY_DN17965_c0_g2_i2::g.92668::m.92668	0	0	0	0	0	0	0	0	0	0	0	0	0	198990	173040
TRINITY_DN10320_c0_g1::TRINITY_DN10320_c0_g1_i1::g.4626::m.4626	0	0	0	0	0	0	0	0	0	0	0	0	0	258820	112860
TRINITY_DN19345_c3_g1::TRINITY_DN19345_c3_g1_i6::g.117087::m.117087	0	0	0	0	0	0	0	0	0	0	0	0	170190	201440	0
TRINITY_DN18504_c0_g1::TRINITY_DN18504_c0_g1_i8::g.101692::m.101692	0	0	0	0	0	0	0	0	0	0	0	0	179300	0	192100
TRINITY_DN19069_c0_g1::TRINITY_DN19069_c0_g1_i4::g.111231::m.111231	0	0	0	0	0	0	0	0	0	0	0	0	135420	233760	0
TRINITY_DN15115_c0_g4::TRINITY_DN15115_c0_g4_i3::g.47102::m.47102	0	0	0	0	0	0	0	0	0	0	0	0	0	220700	147040
TRINITY_DN18049_c1_g1::TRINITY_DN18049_c1_g1_i7::g.94346::m.94346	0	0	0	0	0	0	0	0	0	0	0	0	0	0	367640
TRINITY_DN16571_c0_g1::TRINITY_DN16571_c0_g1_i1::g.69820::m.69820	0	0	0	0	0	0	0	0	0	0	0	0	0	295860	71680
TRINITY_DN17401_c1_g1::TRINITY_DN17401_c1_g1_i4::g.83099::m.83099	0	0	0	0	0	0	0	0	0	0	0	0	0	271960	95202
TRINITY_DN11104_c0_g1::TRINITY_DN11104_c0_g1_i1::g.6331::m.6331	0	0	0	0	0	0	0	0	0	0	0	0	214780	0	151520
TRINITY_DN11331_c0_g1::TRINITY_DN11331_c0_g1_i1::g.7013::m.7013	114180	74908	0	0	113760	63371	0	0	0	0	0	0	0	0	0
TRINITY_DN19806_c0_g1::TRINITY_DN19806_c0_g1_i11::g.123914::m.123914	0	0	0	0	0	0	0	0	0	0	0	0	0	187470	177560
TRINITY_DN14324_c0_g1::TRINITY_DN14324_c0_g1_i3::g.35430::m.35430	0	0	0	0	0	0	0	0	0	0	0	0	65244	299280	0
TRINITY_DN19942_c2_g1::TRINITY_DN19942_c2_g1_i4::g.126324::m.126324	0	0	0	0	0	0	0	0	0	0	0	0	108450	133080	122750
TRINITY_DN16925_c0_g1::TRINITY_DN16925_c0_g1_i1::g.75769::m.75769	0	0	0	0	0	0	0	0	0	0	0	0	138070	69195	155670
TRINITY_DN19895_c1_g1::TRINITY_DN19895_c1_g1_i3::g.125573::m.125573	0	0	0	0	0	0	0	0	0	0	0	0	110860	123830	127260
TRINITY_DN17938_c1_g2::TRINITY_DN17938_c1_g2_i1::g.92333::m.92333	0	0	178400	0	0	0	0	0	0	183320	0	0	0	0	0

TRINITY_DN19979_c5_g4::TRINITY_DN19979_c5_g4_i5::g.127016::m.127016	0	0	0	0	0	0	0	0	0	0	0	0	0	271050	89683
TRINITY_DN17846_c4_g1::TRINITY_DN17846_c4_g1_i2::g.90658::m.90658	0	0	0	0	0	0	0	0	0	0	0	0	276480	81567	0
TRINITY_DN17717_c2_g1::TRINITY_DN17717_c2_g1_i3::g.88728::m.88728	0	0	0	0	0	0	0	0	0	0	0	0	357670	0	0
TRINITY_DN14801_c0_g1::TRINITY_DN14801_c0_g1_i4::g.42400::m.42400	0	0	0	0	0	0	0	0	0	0	0	0	0	96783	260440
TRINITY_DN14703_c2_g1::TRINITY_DN14703_c2_g1_i4::g.41069::m.41069	0	0	0	74576	0	0	0	63867	218740	0	0	0	0	0	0
TRINITY_DN11195_c0_g1::TRINITY_DN11195_c0_g1_i1::g.6571::m.6571	0	0	0	0	0	0	0	0	0	0	0	0	66434	197900	92007
TRINITY_DN10654_c0_g1::TRINITY_DN10654_c0_g1_i1::g.5213::m.5213	0	0	0	0	0	0	0	0	0	0	0	0	147140	208360	0
TRINITY_DN17314_c1_g1::TRINITY_DN17314_c1_g1_i1::g.81914::m.81914	0	0	0	0	0	0	0	0	0	0	0	0	0	209950	145380
TRINITY_DN17135_c0_g1::TRINITY_DN17135_c0_g1_i6::g.79192::m.79192	0	0	0	0	0	0	0	0	216660	0	0	0	137170	0	0
TRINITY_DN18873_c0_g1::TRINITY_DN18873_c0_g1_i7::g.107966::m.107966	0	0	0	0	0	0	0	0	0	0	0	0	137200	216070	0
TRINITY_DN15119_c0_g1::TRINITY_DN15119_c0_g1_i1::g.47105::m.47105	0	0	0	0	0	0	0	0	0	0	0	0	244010	0	106690
TRINITY_DN19022_c0_g1::TRINITY_DN19022_c0_g1_i10::g.110657::m.110657	0	0	0	0	0	0	0	0	0	0	0	0	164760	185360	0
TRINITY_DN17160_c1_g3::TRINITY_DN17160_c1_g3_i2::g.79397::m.79397	0	0	0	0	0	0	0	0	170380	0	0	0	0	179180	0
TRINITY_DN13640_c0_g3::TRINITY_DN13640_c0_g3_i9::g.26621::m.26621	0	0	0	0	0	0	0	0	0	0	0	0	0	176980	171030
TRINITY_DN19493_c1_g1::TRINITY_DN19493_c1_g1_i9::g.118079::m.118079	0	0	0	0	102930	0	0	0	0	0	0	0	0	242310	0
TRINITY_DN19823_c3_g2::TRINITY_DN19823_c3_g2_i6::g.124233::m.124233	0	0	0	0	0	0	0	0	0	0	0	0	91263	122530	130070
TRINITY_DN16244_c0_g2::TRINITY_DN16244_c0_g2_i4::g.64523::m.64523	0	0	0	0	0	0	0	0	0	0	0	0	156000	0	186040
TRINITY_DN13878_c2_g2::TRINITY_DN13878_c2_g2_i3::g.29757::m.29757	0	35970	91627	70919	0	0	0	143270	0	0	0	0	0	0	0
TRINITY_DN13194_c4_g1::TRINITY_DN13194_c4_g1_i4::g.20971::m.20971	0	0	0	0	0	0	0	0	0	0	0	0	0	90639	251090
TRINITY_DN13636_c0_g1::TRINITY_DN13636_c0_g1_i5::g.26555::m.26555	0	0	0	0	0	0	0	0	0	0	0	0	120540	0	220160
TRINITY_DN17968_c0_g2::TRINITY_DN17968_c0_g2_i1::g.92847::m.92847	0	0	0	0	0	0	0	0	0	0	0	0	0	206960	133220

TRINITY_DN10935_c0_g1::TRINITY_DN10935_c0_g1_i5::g.5847::m.5847	36225	0	37080	47738	111960	0	0	105480	0	0	0	0	0	0	0
TRINITY_DN17259_c0_g1::TRINITY_DN17259_c0_g1_i9::g.80974::m.80974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	338450
TRINITY_DN14202_c2_g1::TRINITY_DN14202_c2_g1_i3::g.33869::m.33869	0	0	0	0	0	0	0	0	0	95394	0	242710	0	0	0
TRINITY_DN11729_c1_g1::TRINITY_DN11729_c1_g1_i5::g.8590::m.8590	0	0	0	0	0	0	0	0	0	0	0	0	176380	0	160870
TRINITY_DN16787_c1_g2::TRINITY_DN16787_c1_g2_i3::g.73271::m.73271	0	0	0	0	0	0	0	0	93723	0	0	0	243360	0	0
TRINITY_DN15603_c1_g3::TRINITY_DN15603_c1_g3_i1::g.54361::m.54361	0	0	0	0	0	0	0	78696	0	0	0	0	257910	0	0
TRINITY_DN13221_c3_g1::TRINITY_DN13221_c3_g1_i2::g.21212::m.21212	54636	0	31615	0	0	0	0	0	100430	0	149260	0	0	0	0
TRINITY_DN10855_c0_g2::TRINITY_DN10855_c0_g2_i3::g.5689::m.5689	0	0	0	55463	0	0	0	0	0	0	0	0	279640	0	0
TRINITY_DN47853_c0_g1::TRINITY_DN47853_c0_g1_i1::g.132570::m.132570	0	0	334720	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN17028_c2_g2::TRINITY_DN17028_c2_g2_i3::g.77279::m.77279	0	0	72779	81304	0	0	0	0	0	0	180340	0	0	0	0
TRINITY_DN17028_c2_g2::TRINITY_DN17028_c2_g2_i3::g.77278::m.77278	0	0	0	0	0	0	0	0	0	0	0	0	108390	0	225960
TRINITY_DN16271_c1_g1::TRINITY_DN16271_c1_g1_i4::g.64790::m.64790	0	0	0	0	0	0	0	0	0	0	0	0	0	0	333590
TRINITY_DN16125_c0_g1::TRINITY_DN16125_c0_g1_i5::g.62472::m.62472	0	0	0	0	238980	94220	0	0	0	0	0	0	0	0	0
TRINITY_DN13227_c0_g6::TRINITY_DN13227_c0_g6_i1::g.21293::m.21293	118610	0	119490	94927	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN19999_c7_g1::TRINITY_DN19999_c7_g1_i2::g.126443::m.126443	89923	0	128110	113050	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN18074_c1_g1::TRINITY_DN18074_c1_g1_i2::g.94688::m.94688	0	0	0	0	0	0	0	0	0	0	0	0	0	208520	120780
TRINITY_DN15518_c0_g1::TRINITY_DN15518_c0_g1_i2::g.53176::m.53176	0	0	0	0	0	0	0	0	0	0	0	0	186790	142110	0
TRINITY_DN14467_c3_g1::TRINITY_DN14467_c3_g1_i7::g.37643::m.37643	0	0	0	0	0	0	0	0	0	0	145280	0	0	0	182810
TRINITY_DN12438_c0_g2::TRINITY_DN12438_c0_g2_i1::g.12882::m.12882	0	0	0	0	0	0	0	0	0	0	0	0	0	106110	221420
TRINITY_DN12528_c1_g2::TRINITY_DN12528_c1_g2_i1::g.13492::m.13492	0	0	0	0	0	0	0	0	0	0	0	0	104060	121700	100410
TRINITY_DN18017_c0_g1::TRINITY_DN18017_c0_g1_i4::g.93738::m.93738	0	0	0	0	0	0	0	0	0	0	0	0	325120	0	0

TRINITY_DN13524_c0_g1::TRINITY_DN13524_c0_g1_i8::g.24870::m.24870	0	0	0	0	0	0	0	0	0	0	0	325040	0	0	0
TRINITY_DN15030_c2_g10::TRINITY_DN15030_c2_g10_i10::g.46047::m.46047	0	0	0	0	0	0	0	0	0	0	0	0	84696	85673	153780
TRINITY_DN14724_c2_g3::TRINITY_DN14724_c2_g3_i6::g.41251::m.41251	0	0	0	0	0	0	0	0	0	0	0	0	0	153200	170470
TRINITY_DN9836_c0_g1::TRINITY_DN9836_c0_g1_i2::g.3964::m.3964	0	0	0	0	0	0	0	0	0	0	0	0	83804	124400	113450
TRINITY_DN18459_c3_g1::TRINITY_DN18459_c3_g1_i2::g.100697::m.100697	0	0	0	0	0	0	0	0	0	0	0	0	0	104190	216950
TRINITY_DN14119_c2_g1::TRINITY_DN14119_c2_g1_i7::g.32525::m.32525	0	0	0	0	0	0	0	0	0	0	0	0	91077	119670	110100
TRINITY_DN17875_c1_g1::TRINITY_DN17875_c1_g1_i11::g.91219::m.9121	0	0	0	0	0	0	0	0	0	0	0	0	93981	105660	120820
TRINITY_DN10295_c0_g1::TRINITY_DN10295_c0_g1_i2::g.4577::m.4577	144290	0	45951	38088	0	91987	0	0	0	0	0	0	0	0	0
TRINITY_DN15634_c1_g2::TRINITY_DN15634_c1_g2_i1::g.54735::m.54735	0	0	0	0	0	0	0	0	0	0	0	0	0	320210	0
TRINITY_DN14193_c0_g1::TRINITY_DN14193_c0_g1_i4::g.33482::m.33482	0	0	0	0	0	0	0	0	0	0	0	0	136010	184190	0
TRINITY_DN18060_c0_g2::TRINITY_DN18060_c0_g2_i3::g.94415::m.94415	0	0	0	0	0	0	0	0	0	0	0	0	0	145200	174710
TRINITY_DN13421_c0_g4::TRINITY_DN13421_c0_g4_i1::g.23529::m.23529	0	0	0	0	0	0	0	0	0	0	0	0	97891	0	221500
TRINITY_DN15203_c1_g4::TRINITY_DN15203_c1_g4_i2::g.48560::m.48560	0	0	0	0	0	0	0	0	0	0	0	0	0	134750	184640
TRINITY_DN15462_c1_g3::TRINITY_DN15462_c1_g3_i2::g.52234::m.52234	0	0	0	0	0	0	0	81417	0	0	0	0	0	0	237060
TRINITY_DN17163_c2_g2::TRINITY_DN17163_c2_g2_i2::g.79515::m.79515	0	0	0	0	0	0	0	0	0	0	0	0	317690	0	0
TRINITY_DN14323_c3_g1::TRINITY_DN14323_c3_g1_i1::g.35598::m.35598	0	0	0	0	0	0	0	0	0	0	0	0	177660	138160	0
TRINITY_DN17612_c1_g4::TRINITY_DN17612_c1_g4_i2::g.87038::m.87038	0	0	0	0	0	0	0	0	0	0	0	0	0	170470	143770
TRINITY_DN17010_c0_g1::TRINITY_DN17010_c0_g1_i4::g.76944::m.76944	0	0	0	0	0	0	0	0	0	0	0	0	187040	126910	0
TRINITY_DN14661_c1_g1::TRINITY_DN14661_c1_g1_i2::g.40114::m.40114	0	0	0	0	0	0	0	0	0	0	0	0	125590	0	186120
TRINITY_DN19036_c0_g1::TRINITY_DN19036_c0_g1_i4::g.110800::m.110800	0	0	0	0	0	0	0	0	0	0	252500	0	0	0	59077
TRINITY_DN19720_c2_g1::TRINITY_DN19720_c2_g1_i1::g.122728::m.122728	0	0	0	0	0	0	0	0	0	0	0	0	150310	0	159970

TRINITY_DN16319_c0_g6::TRINITY_DN16319_c0_g6_i2::g.65617::m.65617	0	0	0	0	0	0	0	0	0	0	0	0	100220	111730	97736
TRINITY_DN17286_c0_g1::TRINITY_DN17286_c0_g1_i7::g.81470::m.81470	0	0	0	0	0	0	0	0	0	0	0	0	91941	0	217340
TRINITY_DN13871_c3_g1::TRINITY_DN13871_c3_g1_i4::g.29817::m.29817	0	0	0	0	0	0	0	0	0	0	0	0	173910	134870	0
TRINITY_DN13650_c9_g1::TRINITY_DN13650_c9_g1_i8::g.26115::m.26115	0	0	0	0	171270	0	0	0	0	0	0	0	0	133480	0
TRINITY_DN18482_c1_g1::TRINITY_DN18482_c1_g1_i7::g.100962::m.100962	0	0	0	0	0	0	0	0	0	0	0	0	0	90826	212590
TRINITY_DN14626_c0_g2::TRINITY_DN14626_c0_g2_i6::g.39817::m.39817	0	0	0	0	0	0	0	0	0	0	0	0	154030	0	148500
TRINITY_DN13249_c0_g1::TRINITY_DN13249_c0_g1_i1::g.21073::m.21073	0	0	0	0	0	0	0	0	0	0	0	0	150110	0	151650
TRINITY_DN15130_c6_g1::TRINITY_DN15130_c6_g1_i3::g.47299::m.47299	0	0	0	0	0	0	0	0	0	0	0	0	121860	179300	0
TRINITY_DN16370_c1_g1::TRINITY_DN16370_c1_g1_i6::g.66493::m.66493	0	0	0	0	0	0	0	0	0	0	0	0	129110	0	171210
TRINITY_DN18821_c0_g1::TRINITY_DN18821_c0_g1_i8::g.106977::m.106977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	300270
TRINITY_DN2866_c0_g1::TRINITY_DN2866_c0_g1_i1::g.791::m.791	0	0	0	0	0	0	0	0	0	0	0	0	0	0	298670
TRINITY_DN13724_c5_g4::TRINITY_DN13724_c5_g4_i1::g.27589::m.27589	0	0	0	0	0	0	0	0	0	0	0	0	0	298490	0
TRINITY_DN15832_c2_g1::TRINITY_DN15832_c2_g1_i7::g.57636::m.57636	0	0	0	0	0	0	0	0	0	0	0	0	98649	108810	89331
TRINITY_DN16212_c0_g2::TRINITY_DN16212_c0_g2_i5::g.63967::m.63967	0	0	0	0	0	0	0	0	0	0	0	0	0	296300	0
TRINITY_DN18690_c2_g2::TRINITY_DN18690_c2_g2_i1::g.104786::m.104786	0	32584	0	0	0	0	0	0	0	0	0	0	0	0	263150
TRINITY_DN18367_c3_g7::TRINITY_DN18367_c3_g7_i1::g.99480::m.99480	0	0	0	0	0	0	0	0	0	0	0	0	93745	97793	102610
TRINITY_DN12696_c1_g1::TRINITY_DN12696_c1_g1_i6::g.15028::m.15028	0	0	0	0	0	0	0	0	0	0	0	0	89152	106890	97523
TRINITY_DN19683_c4_g2::TRINITY_DN19683_c4_g2_i1::g.121928::m.121928	0	0	0	0	0	0	0	0	0	0	0	0	0	153570	139310
TRINITY_DN16110_c4_g1::TRINITY_DN16110_c4_g1_i10::g.62321::m.6232	0	0	0	0	0	0	0	0	0	0	0	0	0	183610	108420
TRINITY_DN19277_c4_g1::TRINITY_DN19277_c4_g1_i8::g.115170::m.115170	0	0	0	0	0	0	0	0	0	0	0	0	0	178420	113410
TRINITY_DN16461_c2_g1::TRINITY_DN16461_c2_g1_i2::g.67850::m.67850	0	0	0	0	0	0	0	0	0	0	291760	0	0	0	0

TRINITY_DN16319_c0_g3::TRINITY_DN16319_c0_g3_i4::g.65613::m.65613	0	0	0	0	0	0	0	0	0	0	0	0	92491	112390	86759
TRINITY_DN14881_c0_g1::TRINITY_DN14881_c0_g1_i4::g.43780::m.43780	0	0	0	0	0	0	0	0	0	0	0	0	0	105130	185800
TRINITY_DN13265_c1_g2::TRINITY_DN13265_c1_g2_i3::g.21681::m.21681	0	0	0	0	0	0	0	0	0	0	0	0	0	0	290360
TRINITY_DN14049_c0_g1::TRINITY_DN14049_c0_g1_i2::g.31233::m.31233	0	0	0	0	0	0	0	0	0	0	0	0	0	0	290000
TRINITY_DN13408_c0_g1::TRINITY_DN13408_c0_g1_i4::g.23389::m.23389	0	0	0	0	0	0	0	0	0	0	0	0	0	0	289480
TRINITY_DN19519_c0_g1::TRINITY_DN19519_c0_g1_i10::g.119145::m.119145	0	0	0	0	0	0	0	0	0	0	0	0	76209	107620	105310
TRINITY_DN16032_c0_g1::TRINITY_DN16032_c0_g1_i1::g.60895::m.60895	0	0	0	0	0	0	0	0	0	0	0	0	0	0	288690
TRINITY_DN18985_c1_g6::TRINITY_DN18985_c1_g6_i3::g.109896::m.109896	0	0	0	0	0	0	0	0	0	0	0	0	0	0	288130
TRINITY_DN12405_c0_g1::TRINITY_DN12405_c0_g1_i1::g.12602::m.12602	0	0	0	0	0	0	0	0	0	0	0	0	0	287660	0
TRINITY_DN19613_c2_g2::TRINITY_DN19613_c2_g2_i3::g.120856::m.120856	24322	0	0	0	0	0	0	0	0	0	0	0	0	0	263120
TRINITY_DN17036_c2_g3::TRINITY_DN17036_c2_g3_i3::g.77409::m.77409	0	0	0	0	0	0	0	0	0	0	0	0	123550	163560	0
TRINITY_DN18208_c0_g1::TRINITY_DN18208_c0_g1_i5::g.96946::m.96946	0	0	0	0	0	0	0	0	0	0	0	0	129360	157370	0
TRINITY_DN18601_c0_g1::TRINITY_DN18601_c0_g1_i1::g.101595::m.1015	0	0	0	108390	0	0	0	0	0	0	0	0	0	0	178040
TRINITY_DN19149_c0_g1::TRINITY_DN19149_c0_g1_i16::g.113757::m.113757	0	0	0	0	0	0	0	0	0	0	0	0	114940	0	171070
TRINITY_DN18875_c2_g5::TRINITY_DN18875_c2_g5_i2::g.107944::m.107944	0	0	0	0	0	0	0	0	0	0	0	0	124110	0	159490
TRINITY_DN16082_c0_g1::TRINITY_DN16082_c0_g1_i2::g.61608::m.61608	0	0	0	0	0	0	0	0	0	0	0	0	0	130310	153230
TRINITY_DN11445_c0_g1::TRINITY_DN11445_c0_g1_i3::g.7277::m.7277	0	0	0	0	0	0	0	0	0	0	0	0	283370	0	0
TRINITY_DN13851_c1_g2::TRINITY_DN13851_c1_g2_i2::g.29292::m.29292	119660	0	0	162890	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN15110_c1_g1::TRINITY_DN15110_c1_g1_i4::g.47001::m.47001	30442	0	0	0	116200	0	135320	0	0	0	0	0	0	0	0
TRINITY_DN15121_c0_g1::TRINITY_DN15121_c0_g1_i1::g.47196::m.47196	0	0	0	0	0	0	0	0	0	0	0	0	98876	180630	0

TRINITY_DN13420_c0_g1::TRINITY_DN13420_c0_g1_i1::g.23499::m.23499	0	0	0	0	0	0	0	0	0	0	0	0	0	155280	123510
TRINITY_DN18855_c1_g1::TRINITY_DN18855_c1_g1_i51::g.107677::m.107677	0	0	0	0	0	0	0	0	0	0	0	0	0	143810	131510
TRINITY_DN16845_c1_g1::TRINITY_DN16845_c1_g1_i1::g.74565::m.74565	0	0	30059	32474	0	0	0	0	0	0	0	0	82159	0	130490
TRINITY_DN11922_c0_g1::TRINITY_DN11922_c0_g1_i1::g.9511::m.9511	0	0	0	0	0	0	0	0	0	0	0	0	88630	93819	92080
TRINITY_DN13521_c0_g1::TRINITY_DN13521_c0_g1_i1::g.24833::m.24833	0	0	0	0	0	0	0	0	0	0	0	0	0	0	273020
TRINITY_DN9608_c0_g1::TRINITY_DN9608_c0_g1_i2::g.3681::m.3681	0	0	0	0	0	0	0	0	0	0	0	0	124010	0	146960
TRINITY_DN10819_c0_g1::TRINITY_DN10819_c0_g1_i3::g.5615::m.5615	0	0	0	0	0	0	0	0	0	0	0	0	80741	93555	94420
TRINITY_DN16090_c0_g1::TRINITY_DN16090_c0_g1_i3::g.61630::m.61630	0	0	0	0	0	0	0	67964	0	0	0	0	0	0	200630
TRINITY_DN18139_c1_g1::TRINITY_DN18139_c1_g1_i7::g.95745::m.95745	18909	0	21475	38069	0	0	0	0	0	0	0	0	0	189900	0
TRINITY_DN16973_c0_g1::TRINITY_DN16973_c0_g1_i3::g.76496::m.76496	0	0	0	0	0	0	0	0	0	0	0	0	0	267770	0
TRINITY_DN19343_c7_g1::TRINITY_DN19343_c7_g1_i3::g.116415::m.116415	0	0	113630	152520	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN19191_c0_g2::TRINITY_DN19191_c0_g2_i4::g.113786::m.113786	0	0	0	0	0	0	0	0	0	0	0	265800	0	0	0
TRINITY_DN14461_c1_g4::TRINITY_DN14461_c1_g4_i3::g.37527::m.37527	0	0	0	0	0	0	0	0	0	0	0	0	0	0	265680
TRINITY_DN17541_c1_g1::TRINITY_DN17541_c1_g1_i11::g.86034::m.8603	0	0	0	0	0	0	0	0	0	0	0	0	78380	104160	82880
TRINITY_DN17922_c0_g1::TRINITY_DN17922_c0_g1_i13::g.92083::m.92083	0	173330	0	0	0	0	0	0	0	0	0	0	0	91948	0
TRINITY_DN14757_c1_g1::TRINITY_DN14757_c1_g1_i7::g.41725::m.41725	0	0	0	0	0	0	0	0	0	0	0	0	79600	92185	91804
TRINITY_DN19529_c1_g2::TRINITY_DN19529_c1_g2_i5::g.119243::m.119243	0	0	0	0	0	0	0	0	0	0	0	0	0	263460	0
TRINITY_DN19966_c14_g1::TRINITY_DN19966_c14_g1_i3::g.126866::m.126866	0	0	0	0	0	0	0	0	0	0	0	0	88753	93139	81149
TRINITY_DN15823_c4_g1::TRINITY_DN15823_c4_g1_i3::g.57508::m.57508	0	0	0	0	0	0	0	0	0	0	0	0	143310	119350	0
TRINITY_DN15546_c0_g1::TRINITY_DN15546_c0_g1_i6::g.53570::m.53570	0	0	0	0	0	0	0	0	0	0	0	0	127860	134530	0
TRINITY_DN13076_c2_g1::TRINITY_DN13076_c2_g1_i6::g.19526::m.19526	0	0	0	0	0	0	0	0	0	0	0	0	124730	0	136700

TRINITY_DN19485_c0_g1::TRINITY_DN19485_c0_g1_i9::g.118686::m.118686	0	0	0	0	0	0	0	0	0	0	0	0	0	259950	0
TRINITY_DN13021_c1_g1::TRINITY_DN13021_c1_g1_i1::g.18775::m.18775	0	0	0	0	0	0	0	0	259920	0	0	0	0	0	0
TRINITY_DN12714_c1_g2::TRINITY_DN12714_c1_g2_i1::g.15270::m.15270	0	0	0	0	0	0	0	0	0	0	0	0	259790	0	0
TRINITY_DN19212_c0_g1::TRINITY_DN19212_c0_g1_i8::g.114108::m.1141	0	0	0	0	0	0	0	0	0	0	0	0	0	137010	121550
TRINITY_DN13032_c1_g1::TRINITY_DN13032_c1_g1_i5::g.18813::m.18813	0	0	0	0	0	0	0	0	0	0	0	147300	0	111100	0
TRINITY_DN13241_c2_g1::TRINITY_DN13241_c2_g1_i4::g.21412::m.21412	0	0	0	0	0	0	0	0	0	0	0	0	0	258340	0
TRINITY_DN19075_c1_g2::TRINITY_DN19075_c1_g2_i3::g.111314::m.111314	0	0	0	0	0	0	0	0	0	0	0	0	103410	154390	0
TRINITY_DN19379_c0_g1::TRINITY_DN19379_c0_g1_i4::g.116795::m.116795	0	0	0	0	0	0	0	0	0	0	0	0	103700	154000	0
TRINITY_DN15691_c0_g1::TRINITY_DN15691_c0_g1_i9::g.55585::m.55585	0	0	0	0	134330	0	0	122990	0	0	0	0	0	0	0
TRINITY_DN10326_c0_g1::TRINITY_DN10326_c0_g1_i1::g.4634::m.4634	0	0	0	0	0	0	0	0	0	0	0	0	257160	0	0
TRINITY_DN12047_c0_g1::TRINITY_DN12047_c0_g1_i4::g.10037::m.10037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	256920
TRINITY_DN18148_c1_g6::TRINITY_DN18148_c1_g6_i2::g.95979::m.95979	74754	28266	86225	67533	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN17159_c3_g1::TRINITY_DN17159_c3_g1_i2::g.79474::m.79474	0	0	0	0	0	0	0	0	0	0	0	0	81828	84743	90104
TRINITY_DN10845_c0_g1::TRINITY_DN10845_c0_g1_i1::g.5649::m.5649	0	0	0	0	0	0	0	0	0	0	0	0	124300	0	131750
TRINITY_DN15929_c0_g1::TRINITY_DN15929_c0_g1_i6::g.59159::m.59159	0	0	0	0	0	0	0	0	0	0	0	0	0	104350	151550
TRINITY_DN11125_c0_g1::TRINITY_DN11125_c0_g1_i2::g.6392::m.6392	0	0	0	0	0	0	0	0	0	0	0	0	255680	0	0
TRINITY_DN19874_c1_g1::TRINITY_DN19874_c1_g1_i2::g.124818::m.124818	0	0	0	0	0	0	0	0	0	0	0	0	0	254800	0
TRINITY_DN16609_c0_g4::TRINITY_DN16609_c0_g4_i3::g.70404::m.70404	0	0	0	0	0	0	0	150880	0	0	0	0	101070	0	0
TRINITY_DN19302_c0_g2::TRINITY_DN19302_c0_g2_i5::g.115749::m.115749	0	0	0	0	0	0	0	0	0	0	0	0	79004	92549	78992
TRINITY_DN18657_c3_g2::TRINITY_DN18657_c3_g2_i5::g.104104::m.104104	0	0	0	0	0	0	0	0	0	0	0	0	77461	90784	80537
TRINITY_DN18365_c0_g2::TRINITY_DN18365_c0_g2_i2::g.99254::m.99254	0	18199	53077	93783	0	0	0	0	0	0	0	0	0	82403	0
TRINITY_DN14704_c1_g3::TRINITY_DN14704_c1_g3_i1::g.40903::m.40903	120760	0	101980	23868	0	0	0	0	0	0	0	0	0	0	0

TRINITY_DN13379_c2_g1::TRINITY_DN13379_c2_g1_i3::g.22962::m.22962	0	0	0	0	0	0	0	0	0	0	0	0	0	118520	127480
TRINITY_DN16128_c0_g1::TRINITY_DN16128_c0_g1_i5::g.62674::m.62674	0	0	0	0	0	0	0	0	0	0	0	0	0	245380	0
TRINITY_DN15685_c2_g1::TRINITY_DN15685_c2_g1_i7::g.55504::m.55504	0	0	0	0	0	0	0	0	0	0	0	0	245210	0	0
TRINITY_DN14830_c5_g1::TRINITY_DN14830_c5_g1_i9::g.42943::m.42943	0	0	0	0	0	0	0	0	0	0	0	0	50989	70414	123750
TRINITY_DN11391_c0_g1::TRINITY_DN11391_c0_g1_i3::g.7245::m.7245	0	0	0	0	0	0	0	0	0	0	0	0	116720	126910	0
TRINITY_DN17340_c1_g1::TRINITY_DN17340_c1_g1_i17::g.82513::m.8251	0	0	0	0	0	0	0	0	0	0	0	0	118810	0	123890
TRINITY_DN15433_c2_g1::TRINITY_DN15433_c2_g1_i2::g.51849::m.51849	0	0	0	0	0	0	0	0	0	0	0	0	0	0	242450
TRINITY_DN19143_c2_g1::TRINITY_DN19143_c2_g1_i5::g.112885::m.112885	0	0	0	0	0	0	169610	0	0	0	0	0	0	0	72498
TRINITY_DN15141_c2_g2::TRINITY_DN15141_c2_g2_i7::g.47512::m.47512	0	0	0	0	0	0	0	0	0	0	0	0	0	0	241830
TRINITY_DN6604_c0_g1::TRINITY_DN6604_c0_g1_i1::g.1696::m.1696	0	0	0	0	0	0	0	0	240500	0	0	0	0	0	0
TRINITY_DN14356_c5_g1::TRINITY_DN14356_c5_g1_i2::g.35855::m.35855	0	0	66046	0	0	0	174030	0	0	0	0	0	0	0	0
TRINITY_DN17814_c1_g1::TRINITY_DN17814_c1_g1_i9::g.90451::m.90451	0	0	0	0	0	0	0	0	0	0	0	0	0	0	239870
TRINITY_DN7788_c0_g1::TRINITY_DN7788_c0_g1_i1::g.2350::m.2350	0	0	0	0	0	0	0	0	0	0	0	0	0	126890	112360
TRINITY_DN16305_c1_g1::TRINITY_DN16305_c1_g1_i3::g.65515::m.65515	0	0	0	0	0	0	0	0	0	0	0	0	0	0	238810
TRINITY_DN14505_c2_g1::TRINITY_DN14505_c2_g1_i2::g.38114::m.38114	0	0	0	0	0	0	0	0	0	0	0	0	0	119200	119440
TRINITY_DN16442_c0_g2::TRINITY_DN16442_c0_g2_i5::g.67615::m.67615	0	0	0	42894	0	0	0	0	0	0	195690	0	0	0	0
TRINITY_DN9437_c0_g1::TRINITY_DN9437_c0_g1_i1::g.3480::m.3480	0	0	0	0	143600	0	0	0	0	94249	0	0	0	0	0
TRINITY_DN10468_c0_g2::TRINITY_DN10468_c0_g2_i1::g.4854::m.4854	0	0	0	0	0	0	0	0	0	0	0	0	0	109250	128450
TRINITY_DN19289_c1_g2::TRINITY_DN19289_c1_g2_i6::g.115366::m.115366	0	0	0	0	0	0	0	0	0	0	0	0	128180	106560	0
TRINITY_DN570_c0_g1::TRINITY_DN570_c0_g1_i1::g.152::m.152	0	0	0	0	0	0	0	0	0	0	0	0	104050	0	130620
TRINITY_DN16387_c0_g7::TRINITY_DN16387_c0_g7_i3::g.66774::m.66774	0	0	0	0	0	0	0	0	0	0	0	0	0	116370	117070
TRINITY_DN19149_c0_g1::TRINITY_DN19149_c0_g1_i14::g.113756::m.113756	0	0	0	0	0	0	0	0	0	0	0	0	115930	116900	0

TRINITY_DN18020_c2_g2::TRINITY_DN18020_c2_g2_i4::g.93764::m.93764	0	0	0	0	0	0	0	0	0	0	0	0	232550	0	0
TRINITY_DN16978_c1_g3::TRINITY_DN16978_c1_g3_i2::g.76542::m.76542	139540	0	0	0	0	0	0	0	0	0	0	92972	0	0	0
TRINITY_DN17213_c1_g1::TRINITY_DN17213_c1_g1_i3::g.80196::m.80196	0	0	0	0	0	0	0	0	0	0	0	0	149410	0	81738
TRINITY_DN19992_c4_g1::TRINITY_DN19992_c4_g1_i5::g.127460::m.127460	0	0	0	0	0	0	0	0	0	0	0	0	102120	128880	0
TRINITY_DN13415_c1_g3::TRINITY_DN13415_c1_g3_i1::g.23602::m.23602	0	0	0	0	0	0	0	0	0	0	0	0	230600	0	0
TRINITY_DN12348_c0_g1::TRINITY_DN12348_c0_g1_i1::g.11710::m.11710	0	0	0	0	0	0	0	0	0	0	0	0	105110	124990	0
TRINITY_DN15405_c3_g1::TRINITY_DN15405_c3_g1_i4::g.51552::m.51552	0	0	0	0	0	0	0	0	0	0	0	0	0	226410	0
TRINITY_DN9822_c0_g1::TRINITY_DN9822_c0_g1_i1::g.3931::m.3931	39714	0	45161	44520	0	0	97018	0	0	0	0	0	0	0	0
TRINITY_DN14833_c0_g2::TRINITY_DN14833_c0_g2_i2::g.42977::m.42977	0	0	122480	0	0	0	0	0	0	0	0	0	0	0	103720
TRINITY_DN15454_c2_g1::TRINITY_DN15454_c2_g1_i4::g.52157::m.52157	0	0	0	0	0	0	225440	0	0	0	0	0	0	0	0
TRINITY_DN14480_c1_g1::TRINITY_DN14480_c1_g1_i3::g.37689::m.37689	0	0	0	0	0	0	0	0	0	0	0	0	0	0	225320
TRINITY_DN18127_c0_g1::TRINITY_DN18127_c0_g1_i1::g.95817::m.95817	0	0	0	0	0	0	0	0	0	0	0	0	45429	71349	108490
TRINITY_DN16613_c0_g1::TRINITY_DN16613_c0_g1_i5::g.70442::m.70442	0	0	0	0	0	0	0	0	0	0	0	0	131500	90390	0
TRINITY_DN17792_c0_g7::TRINITY_DN17792_c0_g7_i6::g.89759::m.89759	65324	0	69736	86082	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN19032_c3_g1::TRINITY_DN19032_c3_g1_i17::g.110826::m.110826	0	0	0	0	0	0	0	0	0	0	0	0	115380	0	104980
TRINITY_DN3292_c0_g1::TRINITY_DN3292_c0_g1_i2::g.890::m.890	0	0	0	0	0	0	0	0	0	0	0	0	0	219780	0
TRINITY_DN13487_c0_g1::TRINITY_DN13487_c0_g1_i1::g.24417::m.24417	0	0	0	0	0	0	0	0	0	0	0	0	0	134160	84644
TRINITY_DN16110_c4_g1::TRINITY_DN16110_c4_g1_i11::g.62324::m.6232	0	0	0	0	0	0	0	0	0	0	0	0	95109	122810	0
TRINITY_DN12761_c4_g2::TRINITY_DN12761_c4_g2_i1::g.15691::m.15691	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217820
TRINITY_DN11277_c0_g1::TRINITY_DN11277_c0_g1_i2::g.6842::m.6842	0	0	0	0	0	0	0	0	0	0	0	0	0	124680	92794
TRINITY_DN14078_c2_g2::TRINITY_DN14078_c2_g2_i1::g.32075::m.32075	0	0	0	0	0	0	0	0	0	0	0	0	65385	88595	62180
TRINITY_DN18707_c1_g1::TRINITY_DN18707_c1_g1_i8::g.104943::m.104943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	215470

TRINITY_DN14427_c0_g1::TRINITY_DN14427_c0_g1_i8::g.36957::m.36957	0	0	0	0	0	0	0	0	0	0	0	0	0	215380	0
TRINITY_DN14274_c2_g1::TRINITY_DN14274_c2_g1_i1::g.34705::m.34705	0	0	0	0	0	0	0	0	0	0	0	0	0	119920	94289
TRINITY_DN14629_c0_g3::TRINITY_DN14629_c0_g3_i2::g.40344::m.40344	0	0	0	0	0	0	0	0	0	0	0	0	101030	0	112800
TRINITY_DN17321_c2_g1::TRINITY_DN17321_c2_g1_i8::g.82045::m.82045	0	0	0	0	0	0	0	0	0	0	0	0	0	77031	136680
TRINITY_DN19385_c2_g1::TRINITY_DN19385_c2_g1_i5::g.117068::m.117068	81061	0	65734	66450	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN12251_c0_g1::TRINITY_DN12251_c0_g1_i7::g.11382::m.11382	0	0	0	0	0	0	0	0	0	0	0	0	0	212500	0
TRINITY_DN18091_c1_g1::TRINITY_DN18091_c1_g1_i6::g.94898::m.94898	0	29526	0	76711	0	0	0	0	0	0	0	0	0	0	106260
TRINITY_DN18990_c0_g1::TRINITY_DN18990_c0_g1_i1::g.110013::m.110013	0	0	0	0	0	0	0	0	0	0	0	0	0	110010	102070
TRINITY_DN19413_c0_g2::TRINITY_DN19413_c0_g2_i1::g.117446::m.117446	0	0	0	0	0	0	0	0	0	0	0	0	0	96541	114920
TRINITY_DN18349_c4_g1::TRINITY_DN18349_c4_g1_i3::g.99227::m.99227	0	0	0	0	0	0	0	0	0	0	0	0	93052	116410	0
TRINITY_DN14718_c0_g1::TRINITY_DN14718_c0_g1_i3::g.41289::m.41289	0	0	0	0	0	0	0	0	0	0	0	0	0	0	209310
TRINITY_DN18771_c1_g1::TRINITY_DN18771_c1_g1_i3::g.106137::m.106137	0	0	0	0	0	0	0	0	0	0	0	0	111670	0	97603
TRINITY_DN10875_c0_g1::TRINITY_DN10875_c0_g1_i3::g.5717::m.5717	0	0	0	0	0	0	0	0	0	0	0	0	0	104210	104460
TRINITY_DN10668_c0_g1::TRINITY_DN10668_c0_g1_i3::g.5273::m.5273	0	0	0	0	0	0	0	0	0	0	0	0	0	80446	127830
TRINITY_DN16826_c3_g1::TRINITY_DN16826_c3_g1_i6::g.74102::m.74102	0	0	0	0	0	0	0	0	0	0	0	0	0	165010	42597
TRINITY_DN19356_c0_g4::TRINITY_DN19356_c0_g4_i8::g.116588::m.116588	0	0	0	0	0	0	0	0	0	0	0	0	0	0	207440
TRINITY_DN19935_c0_g1::TRINITY_DN19935_c0_g1_i18::g.126411::m.126411	0	0	0	0	0	0	0	0	0	0	0	0	85789	121230	0
TRINITY_DN15733_c2_g3::TRINITY_DN15733_c2_g3_i4::g.56425::m.56425	0	0	0	0	0	0	0	0	0	0	0	0	78968	0	128030
TRINITY_DN11377_c0_g1::TRINITY_DN11377_c0_g1_i3::g.7158::m.7158	0	0	0	0	0	0	0	0	0	0	0	205790	0	0	0
TRINITY_DN13397_c1_g1::TRINITY_DN13397_c1_g1_i6::g.22118::m.22118	0	0	0	0	0	0	0	0	0	0	0	0	81479	123640	0
TRINITY_DN18687_c0_g1::TRINITY_DN18687_c0_g1_i17::g.103218::m.103218	0	0	0	0	0	0	0	0	0	0	0	0	102800	0	102100

TRINITY_DN15145_c0_g1::TRINITY_DN15145_c0_g1_i10::g.46819::m.46814	0	0	0	0	0	0	0	0	0	0	0	0	92698	0	110720
TRINITY_DN15345_c2_g1::TRINITY_DN15345_c2_g1_i10::g.49844::m.49844	0	0	98237	0	0	0	0	0	0	0	0	0	0	104960	0
TRINITY_DN17431_c5_g1::TRINITY_DN17431_c5_g1_i7::g.83828::m.83828	0	0	0	0	0	0	0	0	0	0	0	0	202980	0	0
TRINITY_DN16550_c0_g1::TRINITY_DN16550_c0_g1_i1::g.69273::m.69273	0	0	0	0	0	0	0	0	0	0	0	0	202890	0	0
TRINITY_DN15895_c4_g2::TRINITY_DN15895_c4_g2_i3::g.57730::m.57730	0	0	0	0	0	0	0	0	0	0	0	0	0	202520	0
TRINITY_DN12618_c1_g1::TRINITY_DN12618_c1_g1_i9::g.14449::m.14449	0	0	0	0	0	0	0	0	0	0	0	0	83741	0	116550
TRINITY_DN19462_c2_g2::TRINITY_DN19462_c2_g2_i5::g.118383::m.118383	0	0	0	0	0	0	0	0	0	0	0	0	0	0	199160
TRINITY_DN16453_c1_g1::TRINITY_DN16453_c1_g1_i1::g.67791::m.67791	0	0	0	0	0	0	0	0	0	0	0	0	61358	79943	57053
TRINITY_DN14591_c5_g1::TRINITY_DN14591_c5_g1_i3::g.39221::m.39221	0	0	0	0	0	0	0	0	0	0	0	0	196950	0	0
TRINITY_DN16615_c1_g3::TRINITY_DN16615_c1_g3_i6::g.70426::m.70426	0	0	0	0	0	0	0	0	0	0	0	0	119140	0	77225
TRINITY_DN18754_c0_g1::TRINITY_DN18754_c0_g1_i2::g.106002::m.106002	0	0	0	0	0	0	0	0	0	0	0	0	196260	0	0
TRINITY_DN17004_c0_g1::TRINITY_DN17004_c0_g1_i2::g.76878::m.76878	0	0	0	0	0	0	0	0	0	0	0	0	99291	0	96018
TRINITY_DN15390_c3_g1::TRINITY_DN15390_c3_g1_i2::g.51061::m.51061	0	0	0	0	0	0	0	0	0	0	0	0	0	0	193930
TRINITY_DN18311_c1_g1::TRINITY_DN18311_c1_g1_i2::g.98629::m.98629	0	0	0	0	0	0	0	0	0	0	0	0	0	98587	94946
TRINITY_DN17353_c2_g2::TRINITY_DN17353_c2_g2_i2::g.82341::m.82341	0	0	78672	0	0	0	0	0	0	0	0	0	114260	0	0
TRINITY_DN10747_c0_g1::TRINITY_DN10747_c0_g1_i1::g.5399::m.5399	0	0	0	0	0	0	0	0	0	0	0	192450	0	0	0
TRINITY_DN12384_c0_g1::TRINITY_DN12384_c0_g1_i2::g.12333::m.12333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	189360
TRINITY_DN16358_c2_g1::TRINITY_DN16358_c2_g1_i5::g.66392::m.66392	0	0	0	0	0	0	0	0	0	0	0	0	0	0	188480
TRINITY_DN19240_c1_g2::TRINITY_DN19240_c1_g2_i4::g.114388::m.114388	0	0	0	0	0	0	0	0	0	0	0	0	99294	0	88736
TRINITY_DN17731_c6_g1::TRINITY_DN17731_c6_g1_i4::g.89011::m.89011	0	0	0	0	0	0	0	0	0	0	0	0	0	73839	114170
TRINITY_DN14931_c0_g1::TRINITY_DN14931_c0_g1_i6::g.44458::m.44458	0	0	0	0	0	0	0	0	0	0	0	0	0	187280	0
TRINITY_DN19471_c0_g1::TRINITY_DN19471_c0_g1_i4::g.118445::m.118445	0	0	0	0	0	0	0	0	0	0	0	0	0	0	187260

TRINITY_DN17953_c1_g8::TRINITY_DN17953_c1_g8_i1::g.91726::m.91726	0	0	0	0	0	0	0	0	0	0	0	0	75054	0	110930
TRINITY_DN14840_c3_g1::TRINITY_DN14840_c3_g1_i19::g.43227::m.43227	0	0	0	0	0	0	0	0	0	0	0	0	185660	0	0
TRINITY_DN16802_c5_g3::TRINITY_DN16802_c5_g3_i3::g.73661::m.73661	0	0	0	0	0	0	0	0	0	0	0	0	91959	0	93553
TRINITY_DN16580_c0_g3::TRINITY_DN16580_c0_g3_i6::g.69917::m.69917	0	0	0	0	0	0	0	0	0	0	0	0	93082	0	91161
TRINITY_DN13912_c2_g1::TRINITY_DN13912_c2_g1_i3::g.30407::m.30407	0	0	0	0	0	0	0	0	0	0	0	183980	0	0	0
TRINITY_DN19207_c4_g2::TRINITY_DN19207_c4_g2_i3::g.114212::m.114212	0	0	0	0	0	0	0	0	0	0	0	0	0	87792	96138
TRINITY_DN16740_c1_g1::TRINITY_DN16740_c1_g1_i2::g.72692::m.72692	0	0	0	0	0	0	0	0	0	0	183840	0	0	0	0
TRINITY_DN15744_c2_g4::TRINITY_DN15744_c2_g4_i2::g.56499::m.56499	0	0	0	0	0	0	0	0	0	0	0	0	0	183700	0
TRINITY_DN16211_c0_g2::TRINITY_DN16211_c0_g2_i6::g.63944::m.63944	0	0	85366	0	0	0	0	97624	0	0	0	0	0	0	0
TRINITY_DN13792_c0_g1::TRINITY_DN13792_c0_g1_i4::g.28291::m.28291	0	0	0	0	0	0	0	0	0	0	0	0	0	182840	0
TRINITY_DN14860_c0_g1::TRINITY_DN14860_c0_g1_i1::g.43455::m.43455	0	0	0	0	0	0	0	0	0	0	0	0	0	182800	0
TRINITY_DN12935_c1_g1::TRINITY_DN12935_c1_g1_i3::g.17528::m.17528	0	0	0	0	0	0	0	0	0	0	0	0	79579	102950	0
TRINITY_DN16126_c1_g1::TRINITY_DN16126_c1_g1_i14::g.62052::m.62052	0	0	0	0	0	0	0	0	0	0	0	0	0	0	181170
TRINITY_DN13480_c0_g1::TRINITY_DN13480_c0_g1_i3::g.24330::m.24330	0	0	0	0	126820	53805	0	0	0	0	0	0	0	0	0
TRINITY_DN16307_c2_g3::TRINITY_DN16307_c2_g3_i3::g.65541::m.65541	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179110
TRINITY_DN17586_c3_g4::TRINITY_DN17586_c3_g4_i6::g.86457::m.86457	0	0	0	0	0	0	0	0	0	0	0	0	104950	0	73459
TRINITY_DN10182_c0_g1::TRINITY_DN10182_c0_g1_i1::g.4394::m.4394	0	0	0	0	89457	0	0	88910	0	0	0	0	0	0	0
TRINITY_DN16200_c0_g2::TRINITY_DN16200_c0_g2_i2::g.62796::m.62796	0	0	0	0	0	0	0	0	0	0	0	0	78976	0	98649
TRINITY_DN15100_c3_g1::TRINITY_DN15100_c3_g1_i6::g.45535::m.45535	0	0	0	0	0	0	0	0	0	0	0	0	177330	0	0
TRINITY_DN12087_c0_g1::TRINITY_DN12087_c0_g1_i3::g.10442::m.10442	0	0	0	0	0	0	0	0	0	0	0	0	0	0	177060

TRINITY_DN15513_c2_g1::TRINITY_DN15513_c2_g1_i6::g.53086::m.53086	0	0	0	0	0	0	0	0	0	0	0	0	54608	64191	57328
TRINITY_DN13233_c0_g4::TRINITY_DN13233_c0_g4_i3::g.21366::m.21366	0	101490	0	0	0	0	0	0	0	0	0	0	0	0	73602
TRINITY_DN17374_c2_g1::TRINITY_DN17374_c2_g1_i5::g.82712::m.82712	0	0	0	0	0	0	0	0	0	0	0	0	88941	83720	0
TRINITY_DN12068_c0_g1::TRINITY_DN12068_c0_g1_i4::g.10141::m.10141	0	0	0	0	0	0	0	0	0	0	0	171110	0	0	0
TRINITY_DN14979_c0_g1::TRINITY_DN14979_c0_g1_i9::g.45197::m.45197	0	0	0	0	0	0	0	0	0	0	0	0	170920	0	0
TRINITY_DN15527_c0_g1::TRINITY_DN15527_c0_g1_i4::g.53287::m.53287	0	0	0	0	0	0	0	0	0	0	0	0	76437	0	94133
TRINITY_DN15865_c2_g1::TRINITY_DN15865_c2_g1_i9::g.58071::m.58071	0	0	0	0	0	0	0	0	0	0	0	0	87402	0	82810
TRINITY_DN17882_c2_g1::TRINITY_DN17882_c2_g1_i14::g.91309::m.91309	0	0	0	0	0	0	0	0	0	0	0	0	0	0	169520
TRINITY_DN18694_c1_g1::TRINITY_DN18694_c1_g1_i5::g.104667::m.104667	0	0	0	0	0	0	0	0	0	0	0	0	0	86875	82359
TRINITY_DN17794_c1_g1::TRINITY_DN17794_c1_g1_i3::g.89692::m.89692	0	0	0	0	0	0	0	0	0	0	0	0	167910	0	0
TRINITY_DN15372_c1_g1::TRINITY_DN15372_c1_g1_i7::g.50862::m.50862	0	0	0	0	0	0	0	0	0	0	0	0	167350	0	0
TRINITY_DN13872_c3_g1::TRINITY_DN13872_c3_g1_i6::g.29683::m.29683	0	0	0	0	0	0	0	0	0	0	0	0	166530	0	0
TRINITY_DN14858_c0_g5::TRINITY_DN14858_c0_g5_i1::g.43408::m.43408	0	0	0	0	0	0	0	0	0	0	0	0	165770	0	0
TRINITY_DN11799_c0_g1::TRINITY_DN11799_c0_g1_i1::g.8868::m.8868	0	0	0	0	0	0	0	0	0	0	0	0	71110	0	94533
TRINITY_DN17436_c0_g1::TRINITY_DN17436_c0_g1_i7::g.83790::m.83790	0	0	0	0	0	0	0	0	0	0	0	0	57850	107340	0
TRINITY_DN15518_c0_g2::TRINITY_DN15518_c0_g2_i2::g.53174::m.53174	0	0	0	0	0	0	0	0	0	0	0	0	96545	0	67961
TRINITY_DN19390_c1_g1::TRINITY_DN19390_c1_g1_i8::g.117167::m.1171	0	0	0	0	0	0	0	0	0	0	0	0	80712	82892	0
TRINITY_DN12101_c0_g1::TRINITY_DN12101_c0_g1_i1::g.9937::m.9937	0	0	0	0	0	0	0	0	0	0	0	0	162270	0	0
TRINITY_DN11289_c0_g1::TRINITY_DN11289_c0_g1_i1::g.6862::m.6862	0	0	55069	107140	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN10610_c0_g1::TRINITY_DN10610_c0_g1_i2::g.5110::m.5110	0	0	0	0	0	0	0	0	0	0	0	0	0	160050	0
TRINITY_DN17673_c0_g1::TRINITY_DN17673_c0_g1_i8::g.88029::m.88029	0	0	0	0	0	0	0	0	0	0	0	0	0	158260	0

TRINITY_DN17467_c0_g2::TRINITY_DN17467_c0_g2_i8::g.84133::m.84133	0	0	0	0	0	0	0	0	0	0	0	0	0	157910	0
TRINITY_DN18000_c3_g4::TRINITY_DN18000_c3_g4_i1::g.93345::m.93345	0	0	0	0	0	0	0	0	0	0	0	0	76319	0	80673
TRINITY_DN13706_c2_g1::TRINITY_DN13706_c2_g1_i3::g.27413::m.27413	0	0	0	0	0	0	0	0	0	0	0	0	0	156030	0
TRINITY_DN12707_c0_g1::TRINITY_DN12707_c0_g1_i3::g.15086::m.15086	30312	0	57991	66001	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN18227_c0_g1::TRINITY_DN18227_c0_g1_i4::g.97154::m.97154	0	0	0	0	0	0	0	0	0	0	0	0	0	154000	0
TRINITY_DN17401_c2_g3::TRINITY_DN17401_c2_g3_i2::g.83107::m.83107	0	0	0	0	0	0	0	0	0	0	0	0	64490	0	89389
TRINITY_DN11447_c0_g1::TRINITY_DN11447_c0_g1_i1::g.7417::m.7417	96348	0	56786	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN18966_c3_g3::TRINITY_DN18966_c3_g3_i5::g.109514::m.109514	0	0	0	0	0	0	0	0	0	0	0	0	0	151700	0
TRINITY_DN18595_c0_g1::TRINITY_DN18595_c0_g1_i7::g.103121::m.103121	0	0	0	0	0	0	0	0	0	0	0	0	149250	0	0
TRINITY_DN11480_c0_g1::TRINITY_DN11480_c0_g1_i7::g.7531::m.7531	0	47952	0	0	0	0	0	0	0	98633	0	0	0	0	0
TRINITY_DN19085_c0_g1::TRINITY_DN19085_c0_g1_i22::g.111744::m.111744	0	0	0	0	0	0	0	0	0	0	0	0	0	146570	0
TRINITY_DN14786_c1_g2::TRINITY_DN14786_c1_g2_i1::g.42235::m.42235	0	0	0	0	0	0	0	0	0	0	0	0	0	0	146100
TRINITY_DN1011_c0_g1::TRINITY_DN1011_c0_g1_i1::g.255::m.255	0	0	0	0	0	0	0	0	145650	0	0	0	0	0	0
TRINITY_DN16766_c2_g2::TRINITY_DN16766_c2_g2_i3::g.73070::m.73070	0	0	0	0	0	0	0	0	0	0	0	0	0	145460	0
TRINITY_DN17471_c1_g1::TRINITY_DN17471_c1_g1_i8::g.84225::m.84225	0	0	0	0	0	0	0	0	0	0	0	0	0	145410	0
TRINITY_DN14557_c1_g1::TRINITY_DN14557_c1_g1_i7::g.38742::m.38742	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144540
TRINITY_DN12733_c0_g1::TRINITY_DN12733_c0_g1_i1::g.15369::m.15369	0	0	0	0	0	0	0	0	0	0	0	0	144030	0	0
TRINITY_DN17602_c0_g2::TRINITY_DN17602_c0_g2_i1::g.86960::m.86960	0	0	0	0	0	0	0	0	82635	0	0	0	0	0	60597
TRINITY_DN13377_c3_g1::TRINITY_DN13377_c3_g1_i6::g.23084::m.23084	0	0	0	0	0	0	0	0	0	0	0	0	67684	74398	0
TRINITY_DN14518_c1_g2::TRINITY_DN14518_c1_g2_i4::g.38282::m.38282	0	0	0	0	0	0	0	0	0	0	0	0	0	139090	0

TRINITY_DN18437_c1_g1::TRINITY_DN18437_c1_g1_i4::g.100574::m.100574	0	0	0	0	0	0	0	0	0	0	0	0	71364	0	67529
TRINITY_DN15963_c1_g1::TRINITY_DN15963_c1_g1_i1::g.59605::m.59605	0	0	0	0	0	0	0	0	0	0	0	0	0	137280	0
TRINITY_DN17490_c0_g3::TRINITY_DN17490_c0_g3_i5::g.84477::m.84477	0	0	0	0	0	0	0	0	0	0	0	0	137090	0	0
TRINITY_DN19045_c3_g1::TRINITY_DN19045_c3_g1_i11::g.111100::m.111100	0	0	0	0	0	0	0	0	0	0	0	0	136860	0	0
TRINITY_DN14763_c1_g1::TRINITY_DN14763_c1_g1_i5::g.41937::m.41937	0	0	0	0	0	0	0	0	0	0	0	0	0	136110	0
TRINITY_DN18733_c1_g5::TRINITY_DN18733_c1_g5_i2::g.105940::m.105940	0	0	0	0	0	0	0	0	0	0	0	0	0	135000	0
TRINITY_DN11884_c0_g1::TRINITY_DN11884_c0_g1_i2::g.9315::m.9315	0	0	0	0	0	0	0	0	0	0	0	0	0	0	134800
TRINITY_DN14042_c0_g1::TRINITY_DN14042_c0_g1_i1::g.31618::m.31618	0	0	0	0	0	0	0	0	0	0	0	0	63398	0	70439
TRINITY_DN19087_c0_g3::TRINITY_DN19087_c0_g3_i1::g.111646::m.111646	0	0	0	0	0	0	0	0	0	0	0	0	0	73689	60065
TRINITY_DN15486_c0_g3::TRINITY_DN15486_c0_g3_i1::g.52746::m.52746	0	0	0	0	0	0	0	0	0	0	0	0	132920	0	0
TRINITY_DN16817_c0_g1::TRINITY_DN16817_c0_g1_i3::g.73774::m.73774	0	0	0	0	0	0	0	0	0	0	0	0	0	132780	0
TRINITY_DN17918_c1_g1::TRINITY_DN17918_c1_g1_i4::g.91866::m.91866	0	0	0	0	0	0	0	0	0	0	0	0	0	0	130940
TRINITY_DN19962_c5_g2::TRINITY_DN19962_c5_g2_i2::g.126940::m.126940	0	0	0	0	0	0	0	0	0	0	130940	0	0	0	0
TRINITY_DN19385_c2_g1::TRINITY_DN19385_c2_g1_i13::g.117074::m.117074	0	0	56566	72228	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN15599_c0_g1::TRINITY_DN15599_c0_g1_i1::g.54231::m.54231	71495	0	57142	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN13743_c6_g3::TRINITY_DN13743_c6_g3_i1::g.27816::m.27816	0	0	0	0	0	0	0	0	0	127560	0	0	0	0	0
TRINITY_DN18919_c2_g1::TRINITY_DN18919_c2_g1_i5::g.108804::m.108804	0	0	0	0	0	0	0	0	0	0	0	0	0	60561	66798
TRINITY_DN15799_c0_g1::TRINITY_DN15799_c0_g1_i6::g.55958::m.55958	65590	0	0	60146	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN15302_c0_g1::TRINITY_DN15302_c0_g1_i3::g.49970::m.49970	0	0	0	0	0	0	0	0	0	0	0	0	0	125660	0
TRINITY_DN12400_c4_g2::TRINITY_DN12400_c4_g2_i2::g.12585::m.12585	76737	0	0	48713	0	0	0	0	0	0	0	0	0	0	0

TRINITY_DN16837_c1_g1::TRINITY_DN16837_c1_g1_i3::g.74278::m.74278	0	0	0	0	0	0	0	0	0	0	0	0	0	125310	0
TRINITY_DN19176_c1_g1::TRINITY_DN19176_c1_g1_i6::g.113373::m.1133	0	0	0	0	0	0	0	0	0	0	0	0	0	123930	0
TRINITY_DN13734_c2_g1::TRINITY_DN13734_c2_g1_i1::g.27715::m.27715	0	0	0	122320	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN15824_c1_g1::TRINITY_DN15824_c1_g1_i3::g.57478::m.57478	0	0	0	0	0	0	0	0	0	0	0	0	0	121830	0
TRINITY_DN17322_c1_g1::TRINITY_DN17322_c1_g1_i1::g.82026::m.82026	0	0	0	0	0	0	0	0	0	0	0	0	120700	0	0
TRINITY_DN18188_c2_g1::TRINITY_DN18188_c2_g1_i6::g.95147::m.95147	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119770
TRINITY_DN16641_c0_g1::TRINITY_DN16641_c0_g1_i7::g.70870::m.70870	0	0	0	0	0	0	0	0	0	0	0	0	118520	0	0
TRINITY_DN16217_c1_g2::TRINITY_DN16217_c1_g2_i6::g.64087::m.64087	63558	0	0	53833	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN17835_c3_g1::TRINITY_DN17835_c3_g1_i1::g.90619::m.90619	0	0	0	0	0	0	0	0	0	0	0	0	58264	0	58992
TRINITY_DN16741_c1_g1::TRINITY_DN16741_c1_g1_i4::g.72580::m.72580	0	0	0	0	0	0	0	0	0	0	0	0	0	116670	0
TRINITY_DN17827_c3_g3::TRINITY_DN17827_c3_g3_i1::g.90327::m.90327	0	0	0	0	0	0	0	0	0	0	0	0	116480	0	0
TRINITY_DN17200_c0_g1::TRINITY_DN17200_c0_g1_i7::g.79915::m.79915	0	0	0	0	0	0	0	0	0	0	0	0	54218	61992	0
TRINITY_DN11631_c1_g1::TRINITY_DN11631_c1_g1_i4::g.8173::m.8173	0	0	0	0	0	0	0	0	0	0	0	0	0	114370	0
TRINITY_DN14578_c1_g3::TRINITY_DN14578_c1_g3_i1::g.39119::m.39119	0	0	0	0	0	0	0	0	0	0	0	0	0	114360	0
TRINITY_DN13605_c0_g1::TRINITY_DN13605_c0_g1_i3::g.26153::m.26153	0	0	0	0	0	0	0	0	0	0	0	0	113560	0	0
TRINITY_DN14404_c3_g3::TRINITY_DN14404_c3_g3_i3::g.36554::m.36554	0	0	0	0	0	0	0	0	0	0	0	0	0	112910	0
TRINITY_DN15478_c1_g1::TRINITY_DN15478_c1_g1_i1::g.52474::m.52474	80946	0	31226	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN15217_c1_g2::TRINITY_DN15217_c1_g2_i9::g.48873::m.48873	0	0	0	0	0	0	0	0	0	0	0	0	0	111570	0
TRINITY_DN13383_c0_g1::TRINITY_DN13383_c0_g1_i9::g.23043::m.23043	0	0	0	0	0	0	0	0	0	0	0	0	111310	0	0
TRINITY_DN16086_c0_g2::TRINITY_DN16086_c0_g2_i6::g.61825::m.61825	0	0	0	0	0	0	0	0	0	0	0	0	53148	0	57315
TRINITY_DN16643_c2_g1::TRINITY_DN16643_c2_g1_i2::g.70325::m.70325	0	0	0	0	0	0	0	0	0	0	0	0	49357	0	60189
TRINITY_DN19405_c0_g1::TRINITY_DN19405_c0_g1_i2::g.117368::m.117368	0	0	0	0	74652	0	0	0	0	0	0	0	34878	0	0

TRINITY_DN13456_c0_g1::TRINITY_DN13456_c0_g1_i3::g.24091::m.24091	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109500
TRINITY_DN10846_c0_g1::TRINITY_DN10846_c0_g1_i1::g.5657::m.5657	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106930
TRINITY_DN17937_c1_g6::TRINITY_DN17937_c1_g6_i1::g.92221::m.92221	0	27248	0	79476	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN14048_c1_g1::TRINITY_DN14048_c1_g1_i1::g.31820::m.31820	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106130
TRINITY_DN15198_c1_g3::TRINITY_DN15198_c1_g3_i1::g.48326::m.48326	0	0	0	0	0	0	0	0	0	0	0	0	0	106130	0
TRINITY_DN13739_c0_g1::TRINITY_DN13739_c0_g1_i1::g.27726::m.27726	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105740
TRINITY_DN18544_c2_g2::TRINITY_DN18544_c2_g2_i1::g.102351::m.102351	0	0	0	0	0	0	0	0	0	0	0	0	105240	0	0
TRINITY_DN13630_c0_g1::TRINITY_DN13630_c0_g1_i5::g.26390::m.26390	0	0	0	0	0	0	0	0	0	0	0	0	0	104380	0
TRINITY_DN14180_c0_g1::TRINITY_DN14180_c0_g1_i2::g.33272::m.33272	0	0	0	0	0	0	0	0	0	0	0	104190	0	0	0
TRINITY_DN8216_c0_g1::TRINITY_DN8216_c0_g1_i1::g.2536::m.2536	0	0	0	0	0	0	0	0	0	0	0	104020	0	0	0
TRINITY_DN19280_c0_g1::TRINITY_DN19280_c0_g1_i3::g.115040::m.115040	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103360
TRINITY_DN16993_c0_g3::TRINITY_DN16993_c0_g3_i3::g.76730::m.76730	0	0	0	0	0	0	0	0	0	0	0	0	102680	0	0
TRINITY_DN19939_c3_g1::TRINITY_DN19939_c3_g1_i7::g.125684::m.125684	0	0	0	0	0	0	0	0	0	0	0	0	0	102140	0
TRINITY_DN19123_c0_g2::TRINITY_DN19123_c0_g2_i1::g.112423::m.112423	0	0	0	0	0	0	0	0	0	0	0	0	0	0	101350
TRINITY_DN13782_c0_g3::TRINITY_DN13782_c0_g3_i2::g.28223::m.28223	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100910
TRINITY_DN15101_c4_g1::TRINITY_DN15101_c4_g1_i4::g.45560::m.45560	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96222
TRINITY_DN18181_c1_g1::TRINITY_DN18181_c1_g1_i3::g.96440::m.96440	0	0	96132	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN13858_c5_g2::TRINITY_DN13858_c5_g2_i2::g.29432::m.29432	0	0	0	0	0	0	0	0	0	0	0	0	0	95704	0
TRINITY_DN19625_c0_g5::TRINITY_DN19625_c0_g5_i9::g.121168::m.121168	0	0	0	0	0	0	0	0	0	0	0	0	0	95665	0
TRINITY_DN17351_c1_g1::TRINITY_DN17351_c1_g1_i15::g.82398::m.82398	35789	24533	32424	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN12181_c0_g1::TRINITY_DN12181_c0_g1_i6::g.10945::m.10945	0	0	0	0	0	0	0	0	0	0	0	0	0	92709	0

TRINITY_DN17453_c0_g6::TRINITY_DN17453_c0_g6_i1::g.83881::m.83881	0	0	0	0	0	0	0	0	0	0	0	0	0	92649	0
TRINITY_DN17009_c5_g2::TRINITY_DN17009_c5_g2_i5::g.77303::m.77303	0	0	0	0	0	0	0	0	0	0	91560	0	0	0	0
TRINITY_DN18349_c3_g1::TRINITY_DN18349_c3_g1_i4::g.99210::m.99210	0	0	0	0	0	0	0	0	0	0	0	0	0	91230	0
TRINITY_DN12974_c0_g1::TRINITY_DN12974_c0_g1_i2::g.18074::m.18074	0	0	0	0	0	0	0	0	0	0	0	0	89379	0	0
TRINITY_DN13246_c1_g2::TRINITY_DN13246_c1_g2_i1::g.21483::m.21483	0	0	0	0	0	0	0	0	0	0	0	0	87079	0	0
TRINITY_DN19497_c1_g4::TRINITY_DN19497_c1_g4_i2::g.118818::m.118818	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86370
TRINITY_DN13446_c0_g3::TRINITY_DN13446_c0_g3_i1::g.23949::m.23949	0	0	0	0	0	0	0	0	0	0	0	0	0	84613	0
TRINITY_DN14491_c0_g1::TRINITY_DN14491_c0_g1_i2::g.37893::m.37893	0	0	0	0	0	0	0	0	0	0	0	0	84148	0	0
TRINITY_DN19064_c0_g1::TRINITY_DN19064_c0_g1_i3::g.111228::m.111228	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82923
TRINITY_DN17932_c0_g2::TRINITY_DN17932_c0_g2_i2::g.92648::m.92648	0	0	0	0	0	0	0	0	0	0	82676	0	0	0	0
TRINITY_DN14711_c0_g4::TRINITY_DN14711_c0_g4_i1::g.40962::m.40962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82662
TRINITY_DN13915_c0_g2::TRINITY_DN13915_c0_g2_i2::g.30373::m.30373	0	0	0	0	0	0	0	0	0	80480	0	0	0	0	0
TRINITY_DN9332_c0_g1::TRINITY_DN9332_c0_g1_i2::g.3344::m.3344	0	0	39809	40082	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN10896_c0_g1::TRINITY_DN10896_c0_g1_i3::g.5759::m.5759	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79117
TRINITY_DN15257_c0_g2::TRINITY_DN15257_c0_g2_i2::g.49306::m.49306	0	0	0	0	0	0	0	0	0	0	0	0	0	78757	0
TRINITY_DN14993_c0_g1::TRINITY_DN14993_c0_g1_i2::g.45400::m.45400	0	0	0	0	0	0	0	0	0	0	0	0	78433	0	0
TRINITY_DN15366_c1_g1::TRINITY_DN15366_c1_g1_i4::g.50810::m.50810	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78291
TRINITY_DN11457_c0_g1::TRINITY_DN11457_c0_g1_i1::g.7427::m.7427	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77714
TRINITY_DN12510_c1_g1::TRINITY_DN12510_c1_g1_i1::g.13448::m.13448	0	0	0	0	0	0	0	0	0	0	0	0	0	76797	0
TRINITY_DN17907_c0_g1::TRINITY_DN17907_c0_g1_i1::g.91817::m.91817	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73405
TRINITY_DN18531_c0_g1::TRINITY_DN18531_c0_g1_i9::g.102220::m.102220	0	0	0	70362	0	0	0	0	0	0	0	0	0	0	0

TRINITY_DN13896_c0_g4::TRINITY_DN13896_c0_g4_i4::g.30042::m.30042	0	0	0	0	0	0	0	0	0	0	0	0	67399	0	0
TRINITY_DN49420_c0_g1::TRINITY_DN49420_c0_g1_i1::g.132815::m.132815	0	0	0	0	0	0	0	0	0	0	0	0	66244	0	0
TRINITY_DN1207_c0_g1::TRINITY_DN1207_c0_g1_i1::g.307::m.307	0	0	0	65810	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN16954_c2_g1::TRINITY_DN16954_c2_g1_i2::g.76223::m.76223	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64970
TRINITY_DN18548_c0_g1::TRINITY_DN18548_c0_g1_i9::g.102424::m.102424	0	0	0	0	0	0	0	63915	0	0	0	0	0	0	0
TRINITY_DN14063_c0_g1::TRINITY_DN14063_c0_g1_i1::g.31854::m.31854	0	0	0	0	0	0	0	0	0	0	0	0	0	62757	0
TRINITY_DN9524_c0_g1::TRINITY_DN9524_c0_g1_i2::g.3575::m.3575	0	0	0	0	0	0	0	0	0	0	0	0	0	62293	0
TRINITY_DN14887_c2_g3::TRINITY_DN14887_c2_g3_i1::g.43865::m.43865	0	0	0	0	0	0	0	0	0	0	0	0	61541	0	0
TRINITY_DN12560_c1_g1::TRINITY_DN12560_c1_g1_i3::g.13781::m.13781	0	0	60231	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN12634_c0_g1::TRINITY_DN12634_c0_g1_i2::g.14412::m.14412	0	0	0	0	0	0	0	0	0	0	0	0	0	58863	0
TRINITY_DN16146_c1_g1::TRINITY_DN16146_c1_g1_i2::g.62212::m.62212	0	0	0	0	0	0	0	0	0	0	0	0	57399	0	0
TRINITY_DN16454_c2_g1::TRINITY_DN16454_c2_g1_i4::g.67739::m.67739	0	0	0	55909	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN5515_c0_g1::TRINITY_DN5515_c0_g1_i1::g.1365::m.1365	0	0	0	0	0	0	0	0	0	0	0	0	0	51909	0
TRINITY_DN37417_c0_g1::TRINITY_DN37417_c0_g1_i1::g.131078::m.131078	0	0	0	0	0	0	0	50629	0	0	0	0	0	0	0
TRINITY_DN17093_c0_g1::TRINITY_DN17093_c0_g1_i9::g.78387::m.78387	0	0	0	0	0	0	0	0	0	0	0	0	49518	0	0
TRINITY_DN16772_c0_g1::TRINITY_DN16772_c0_g1_i3::g.72983::m.72983	49167	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN15339_c4_g4::TRINITY_DN15339_c4_g4_i1::g.49925::m.49925	0	0	0	0	0	0	0	0	0	0	0	0	0	49033	0
TRINITY_DN15754_c0_g4::TRINITY_DN15754_c0_g4_i1::g.56661::m.56661	0	0	0	0	0	0	0	0	0	0	0	0	47967	0	0
TRINITY_DN16687_c0_g1::TRINITY_DN16687_c0_g1_i2::g.71593::m.71593	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44638
TRINITY_DN49712_c0_g1::TRINITY_DN49712_c0_g1_i1::g.132845::m.132845	0	0	0	0	0	0	0	0	0	0	42848	0	0	0	0

TRINITY_DN15478_c0_g1::TRINITY_DN15478_c0_g1_i13::g.52472::m.52472	0	0	0	0	0	0	0	0	0	0	0	0	40849	0	0
TRINITY_DN13615_c2_g2::TRINITY_DN13615_c2_g2_i1::g.26300::m.26300	33665	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN15422_c1_g1::TRINITY_DN15422_c1_g1_i1::g.51639::m.51639	0	32564	0	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN17700_c2_g2::TRINITY_DN17700_c2_g2_i11::g.86871::m.86871	0	0	0	0	0	0	0	0	0	0	0	0	0	30286	0
TRINITY_DN13585_c0_g1::TRINITY_DN13585_c0_g1_i3::g.25706::m.25706	29184	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN16933_c4_g2::TRINITY_DN16933_c4_g2_i2::g.75851::m.75851	0	0	0	29177	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN11228_c0_g1::TRINITY_DN11228_c0_g1_i4::g.6693::m.6693	0	28633	0	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN17776_c0_g1::TRINITY_DN17776_c0_g1_i2::g.89550::m.89550	0	27268	0	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN17420_c0_g2::TRINITY_DN17420_c0_g2_i5::g.83586::m.83586	19981	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN11534_c0_g1::TRINITY_DN11534_c0_g1_i5::g.7773::m.7773	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN13275_c3_g1::TRINITY_DN13275_c3_g1_i7::g.21820::m.21820	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN14670_c2_g3::TRINITY_DN14670_c2_g3_i4::g.40396::m.40396	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN15660_c2_g1::TRINITY_DN15660_c2_g1_i4::g.55101::m.55101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN15833_c5_g1::TRINITY_DN15833_c5_g1_i8::g.57893::m.57893	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN18852_c0_g2::TRINITY_DN18852_c0_g2_i1::g.107431::m.107431	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN18971_c1_g2::TRINITY_DN18971_c1_g2_i2::g.109643::m.109643	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN19418_c3_g2::TRINITY_DN19418_c3_g2_i3::g.117519::m.117519	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRINITY_DN36814_c0_g1::TRINITY_DN36814_c0_g1_i1::g.130975::m.130975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplementary Table S6: Top BLAST hits of identified Betula pollen proteins

Protein IDs	e-value [blastx hit 1]	bitscore [blastx hit 1]	accession [blastx hit 1]	name [blastx hit 1]	organism [blastx hit 1]	accession [blastx hit 2]
TRINITY_DN17355_c4_g1::TRINITY_DN17355_c4_g1_i11::g.82598::m.82598	0	1241	ONH94299.1	hypothetical protein PRUPE_7G009200	Prunus persica	ONH94297.1
TRINITY_DN15290_c1_g1::TRINITY_DN15290_c1_g1_i13::g.49834::m.49834	0	1055	XP_018837851.1	phosphoglucomutase, cytoplasmic	Juglans regia	XP_018826631.1
TRINITY_DN11319_c0_g2::TRINITY_DN11319_c0_g2_i2::g.7052::m.7052	1,54E-99	289	AHF71027.1	glutathione S-transferase	Betula pendula	XP_018812288.1
TRINITY_DN14555_c5_g4::TRINITY_DN14555_c5_g4_i1::g.38907::m.38907	2,32E-18	79,7	XP_018837099.1	uncharacterized protein LOC109003436	Juglans regia	XP_018837039.1
TRINITY_DN16112_c0_g1::TRINITY_DN16112_c0_g1_i8::g.62808::m.62808	0	786	XP_018816885.1	UTP--glucose-1-phosphate uridylyltransferase	Juglans regia	XP_018811449.1
TRINITY_DN14325_c0_g1::TRINITY_DN14325_c0_g1_i1::g.35421::m.35421	2,58E-175	491	XP_018821921.1	peroxidase P7	Juglans regia	XP_008374580.1
TRINITY_DN19980_c4_g3::TRINITY_DN19980_c4_g3_i6::g.127331::m.127331	2,33E-55	186	XP_018859093.1	probable pectinesterase/pectinesterase inhibitor 51	Juglans regia	XP_018842710.1
TRINITY_DN14455_c0_g9::TRINITY_DN14455_c0_g9_i1::g.37463::m.37463	0	623	XP_008383158.1	phosphoglycerate kinase, cytosolic	Malus domestica	XP_004488762.1
TRINITY_DN12690_c0_g1::TRINITY_DN12690_c0_g1_i3::g.14937::m.14937	0	1054	XP_018819373.1	2,3-bisphosphoglycerate-independent phosphoglycerate mutase	Juglans regia	XP_018819374.1
TRINITY_DN19145_c0_g2::TRINITY_DN19145_c0_g2_i2::g.112927::m.112927	6,77E-31	114	XP_018837516.1	uncharacterized protein LOC109003708	Juglans regia	OAY58719.1
TRINITY_DN18658_c1_g1::TRINITY_DN18658_c1_g1_i9::g.104122::m.104122	0	680	XP_016184765.1	monodehydroascorbate reductase	Arachis ipaensis	XP_008241272.1
TRINITY_DN19475_c9_g3::TRINITY_DN19475_c9_g3_i3::g.118615::m.118615	2,51E-109	335	OAY35216.1	hypothetical protein MANES_12G081800	Manihot esculenta	OAY35218.1
TRINITY_DN19879_c1_g2::TRINITY_DN19879_c1_g2_i1::g.125068::m.125068	9,39E-98	294	XP_018847365.1	probable polygalacturonase	Juglans regia	XP_018847358.1
TRINITY_DN11247_c0_g1::TRINITY_DN11247_c0_g1_i5::g.6785::m.6785	8,51E-161	451	AAG22740.1	AF282850_1 allergenic isoflavone reductase-like protein Bet v 6.0102	Betula pendula	Q9FUW6.1
TRINITY_DN15025_c0_g1::TRINITY_DN15025_c0_g1_i1::g.45918::m.45918	0	805	XP_018839506.1	enolase 1	Juglans regia	OAY40921.1
TRINITY_DN14511_c0_g1::TRINITY_DN14511_c0_g1_i3::g.38108::m.38108	6,02E-52	164	XP_016650474.1	glycine-rich RNA-binding protein GRP1A	Prunus mume	XP_018847818.1
TRINITY_DN19475_c9_g1::TRINITY_DN19475_c9_g1_i7::g.118616::m.118616	5,78E-88	275	XP_017180254.1	subtilisin-like protease SBT5.4	Malus domestica	ONH99465.1
TRINITY_DN16589_c2_g3::TRINITY_DN16589_c2_g3_i3::g.69229::m.69229	5,44E-95	275	KDP23592.1	hypothetical protein JCGZ_23425	Jatropha curcas	XP_012089157.1
TRINITY_DN19281_c0_g3::TRINITY_DN19281_c0_g3_i5::g.115036::m.115036	1,10E-169	479	XP_018816251.1	calreticulin	Juglans regia	XP_018856844.1
TRINITY_DN18969_c3_g1::TRINITY_DN18969_c3_g1_i1::g.109636::m.109636	0	934	XP_018844063.1	adenosylhomocysteinase-like	Juglans regia	XP_018848539.1
TRINITY_DN17420_c0_g3::TRINITY_DN17420_c0_g3_i2::g.83576::m.83576	0	593	XP_018846382.1	glyceraldehyde-3-phosphate dehydrogenase, cytosolic	Juglans regia	OAY47918.1

TRINITY_DN11273_c0_g1::TRINITY_DN11273_c0_g1_i1::g.6839::m.6839	7,23E-133	377	XP_018814430.1	uncharacterized protein LOC108986306 isoform X2	Juglans regia	XP_018814429.1
TRINITY_DN19790_c2_g2::TRINITY_DN19790_c2_g2_i6::g.123649::m.123649	2,02E-32	119	AAC05116.2	isoflavone reductase homolog Bet v 6.0101, partial	Betula pendula	AAG22740.1
TRINITY_DN14648_c0_g1::TRINITY_DN14648_c0_g1_i1::g.39924::m.39924	0	1387	XP_018842163.1	beta-xylosidase/alpha-L-arabinofuranosidase 2-like	Juglans regia	XP_018836836.1
TRINITY_DN13067_c1_g1::TRINITY_DN13067_c1_g1_i2::g.19355::m.19355	6,68E-100	287	XP_018844175.1	peptidyl-prolyl cis-trans isomerase FKBP15-1	Juglans regia	OAY32871.1
TRINITY_DN14120_c0_g3::TRINITY_DN14120_c0_g3_i2::g.32536::m.32536	6,35E-157	441	XP_018823301.1	triosephosphate isomerase, cytosolic	Juglans regia	XP_008223629.1
TRINITY_DN14328_c3_g1::TRINITY_DN14328_c3_g1_i9::g.35530::m.35530	0	848	XP_018858114.1	protein disulfide-isomerase-like	Juglans regia	XP_018858121.1
TRINITY_DN15467_c6_g1::TRINITY_DN15467_c6_g1_i1::g.52486::m.52486	0	582	XP_018851336.1	2-alkenal reductase (NADP(+)-dependent)-like isoform X2	Juglans regia	XP_018839362.1
TRINITY_DN14030_c0_g1::TRINITY_DN14030_c0_g1_i1::g.31442::m.31442	0	561	XP_018834006.1	probable fructokinase-5	Juglans regia	AGH25527.1
TRINITY_DN19909_c0_g1::TRINITY_DN19909_c0_g1_i3::g.126119::m.126119	0	814	XP_018808617.1	receptor-like protein kinase HAIKU2	Juglans regia	XP_018808617.1
TRINITY_DN17277_c1_g3::TRINITY_DN17277_c1_g3_i4::g.81251::m.81251	0	627	KDP28233.1	hypothetical protein JCGZ_14004	Jatropha curcas	XP_012082863.1
TRINITY_DN17792_c0_g2::TRINITY_DN17792_c0_g2_i8::g.89735::m.89735	0	642	XP_008241286.1	fructose-bisphosphate aldolase cytoplasmic isozyme	Prunus mume	ONH96251.1
TRINITY_DN14776_c1_g1::TRINITY_DN14776_c1_g1_i2::g.42049::m.42049	0	897	XP_018825758.1	galactokinase-like isoform X1	Juglans regia	XP_018825759.1
TRINITY_DN17630_c0_g1::TRINITY_DN17630_c0_g1_i8::g.87337::m.87337	1,57E-71	214	XP_018845447.1	glutaredoxin-C4	Juglans regia	KDP46838.1
TRINITY_DN12397_c0_g1::TRINITY_DN12397_c0_g1_i3::g.12463::m.12463	0	1352	XP_018844102.1	beta-galactosidase 15-like	Juglans regia	KYP63346.1
TRINITY_DN12813_c0_g1::TRINITY_DN12813_c0_g1_i4::g.16165::m.16165	0	627	XP_018808212.1	malate dehydrogenase-like	Juglans regia	XP_018807661.1
TRINITY_DN16032_c0_g1::TRINITY_DN16032_c0_g1_i3::g.60899::m.60899	0	630	XP_018828122.1	glutelin type-B 5-like	Juglans regia	XP_018828123.1
TRINITY_DN14204_c0_g1::TRINITY_DN14204_c0_g1_i2::g.33925::m.33925	4,03E-45	147	XP_018855560.1	pectinesterase PPME1-like, partial	Juglans regia	XP_018855562.1
TRINITY_DN18302_c1_g2::TRINITY_DN18302_c1_g2_i4::g.98509::m.98509	3,75E-151	429	XP_018823047.1	2-methylene-furan-3-one reductase-like	Juglans regia	XP_018815084.1
TRINITY_DN11092_c0_g1::TRINITY_DN11092_c0_g1_i5::g.6307::m.6307	6,38E-78	251	XP_018812486.1	glycerophosphodiester phosphodiesterase GDPDL3-like	Juglans regia	XP_018812474.1
TRINITY_DN13033_c2_g1::TRINITY_DN13033_c2_g1_i6::g.18937::m.18937	5,91E-56	174	XP_018843283.1	profilin	Juglans regia	KDP40849.1
TRINITY_DN17355_c4_g1::TRINITY_DN17355_c4_g1_i4::g.82584::m.82584	0	1452	XP_018851852.1	5-methyltetrahydropteroyltriglutamate--homocysteine methyltransferase-like	Juglans regia	XP_012066300.1
TRINITY_DN19812_c4_g2::TRINITY_DN19812_c4_g2_i6::g.124061::m.124061	0	992	ALP70519.1	HSP70-type chaperone 28	Prunus persica var. persica	XP_008239207.1

TRINITY_DN11789_c0_g1::TRINITY_DN11789_c0_g1_i4::g.8830::m.8830	0	546	XP_018841935.1	putative lactoylglutathione lyase	Juglans regia	XP_015959074.1
TRINITY_DN19911_c7_g2::TRINITY_DN19911_c7_g2_i3::g.126024::m.126024	3,66E-68	207	ONI12324.1	hypothetical protein PRUPE_4G157300	Prunus persica	XP_020417826.1
TRINITY_DN14120_c0_g1::TRINITY_DN14120_c0_g1_i4::g.32545::m.32545	4,43E-128	365	XP_018814537.1	triosephosphate isomerase, cytosolic	Juglans regia	OAY46102.1
TRINITY_DN19879_c2_g1::TRINITY_DN19879_c2_g1_i5::g.125071::m.125071	1,33E-37	135	XP_018847365.1	probable polygalacturonase	Juglans regia	XP_018847358.1
TRINITY_DN14558_c2_g3::TRINITY_DN14558_c2_g3_i1::g.38817::m.38817	8,33E-93	270	XP_008241145.1	ubiquitin-NEDD8-like protein RUB2	Prunus mume	ONH95703.1
TRINITY_DN15774_c1_g1::TRINITY_DN15774_c1_g1_i3::g.56941::m.56941	4,81E-79	234	XP_018823225.1	uncharacterized protein LOC108992954	Juglans regia	XP_009353814.1
TRINITY_DN13244_c3_g1::TRINITY_DN13244_c3_g1_i1::g.21540::m.21540	0	558	XP_018849818.1	malate dehydrogenase, mitochondrial	Juglans regia	XP_018822629.1
TRINITY_DN18531_c0_g1::TRINITY_DN18531_c0_g1_i4::g.102214::m.102214	0	1554	XP_018852512.1	puromycin-sensitive aminopeptidase isoform X3	Juglans regia	XP_018852509.1
TRINITY_DN16132_c1_g2::TRINITY_DN16132_c1_g2_i1::g.62633::m.62633	1,88E-103	296	XP_018805385.1	calmodulin-like	Juglans regia	XP_018823490.1
TRINITY_DN18476_c0_g1::TRINITY_DN18476_c0_g1_i4::g.100953::m.100953	1,21E-09	57,4	ONI14780.1	hypothetical protein PRUPE_3G007900	Prunus persica	XP_007221543.2
TRINITY_DN15025_c0_g1::TRINITY_DN15025_c0_g1_i8::g.45925::m.45925	0	859	XP_008376333.1	enolase	Malus domestica	XP_009374527.1
TRINITY_DN15036_c1_g1::TRINITY_DN15036_c1_g1_i9::g.46235::m.46235	4,43E-50	161	KHN33603.1	Basic form of pathogenesis-related protein 1	Glycine soja	KRH10678.1
TRINITY_DN12776_c1_g2::TRINITY_DN12776_c1_g2_i6::g.15805::m.15805	1,32E-44	154	XP_008234902.1	probable polygalacturonase	Prunus mume	ONI17230.1
TRINITY_DN17440_c0_g3::TRINITY_DN17440_c0_g3_i6::g.84091::m.84091	8,90E-180	506	XP_018818327.1	guanosine nucleotide diphosphate dissociation inhibitor At5g09550	Juglans regia	KDP29973.1
TRINITY_DN19281_c0_g5::TRINITY_DN19281_c0_g5_i1::g.115035::m.115035	8,88E-42	146	XP_015939719.1	calreticulin isoform X2	Arachis duranensis	XP_016175239.1
TRINITY_DN9942_c0_g1::TRINITY_DN9942_c0_g1_i4::g.4015::m.4015	9,11E-126	359	XP_008238908.1	protein P21-like	Prunus mume	XP_018828872.1
TRINITY_DN19839_c2_g3::TRINITY_DN19839_c2_g3_i5::g.123823::m.123823	8,71E-97	282	XP_018852474.1	probable phospholipid hydroperoxide glutathione peroxidase	Juglans regia	OAY59821.1
TRINITY_DN19911_c7_g3::TRINITY_DN19911_c7_g3_i1::g.126023::m.126023	9,49E-87	269	XP_018808169.1	reticuline oxidase-like protein isoform X2	Juglans regia	XP_018820243.1
TRINITY_DN15452_c6_g1::TRINITY_DN15452_c6_g1_i5::g.52129::m.52129	0	764	XP_018841632.1	uncharacterized protein LOC109006717	Juglans regia	XP_018829078.1
TRINITY_DN18205_c0_g1::TRINITY_DN18205_c0_g1_i3::g.96958::m.96958	1,10E-147	417	XP_018846260.1	putative methyltransferase DDB_G0268948	Juglans regia	XP_018838664.1
TRINITY_DN18360_c0_g7::TRINITY_DN18360_c0_g7_i2::g.99197::m.99197	0	709	KRH19702.1	hypothetical protein GLYMA_13G130900	Glycine max	XP_018841713.1
TRINITY_DN19551_c4_g1::TRINITY_DN19551_c4_g1_i4::g.119678::m.119678	7,40E-71	214	XP_018823733.1	NAD(P)H dehydrogenase (quinone) FQR1-like	Juglans regia	XP_008226755.1

TRINITY_DN18258_c0_g1::TRINITY_DN18258_c0_g1_i10::g.97660::m.97660	0	546	XP_008236513.1	probable mannitol dehydrogenase	Prunus mume	ONI02574.1
TRINITY_DN15932_c0_g3::TRINITY_DN15932_c0_g3_i5::g.59231::m.59231	0	694	XP_018839886.1	alcohol dehydrogenase 1	Juglans regia	Alnus glutinosa
TRINITY_DN13825_c1_g1::TRINITY_DN13825_c1_g1_i2::g.28853::m.28853	1,26E-173	486	XP_018839113.1	aldo-keto reductase family 4 member C9-like	Juglans regia	XP_018839114.1
TRINITY_DN13624_c1_g6::TRINITY_DN13624_c1_g6_i6::g.26482::m.26482	0	1006	XP_018825745.1	heat shock cognate protein 80-like	Juglans regia	XP_018825752.1
TRINITY_DN18743_c1_g1::TRINITY_DN18743_c1_g1_i1::g.105300::m.105300	5,60E-41	139	XP_018823876.1	glycine-rich protein 2-like	Juglans regia	XP_018841456.1
TRINITY_DN13291_c0_g1::TRINITY_DN13291_c0_g1_i4::g.22017::m.22017	2,59E-82	243	XP_018837329.1	glycine cleavage system H protein 2, mitochondrial-like	Juglans regia	XP_018859042.1
TRINITY_DN19879_c1_g2::TRINITY_DN19879_c1_g2_i8::g.125070::m.125070	4,34E-55	172	XP_018853432.1	probable polygalacturonase, partial	Juglans regia	ONI25402.1
TRINITY_DN19354_c2_g2::TRINITY_DN19354_c2_g2_i8::g.116447::m.116447	6,33E-91	268	XP_018835464.1	glutathione S-transferase-like	Juglans regia	XP_018857389.1
TRINITY_DN19617_c3_g2::TRINITY_DN19617_c3_g2_i1::g.121264::m.121264	1,81E-145	414	XP_007206468.2	adenosine kinase 2	Prunus persica	XP_008243957.1
TRINITY_DN36067_c0_g1::TRINITY_DN36067_c0_g1_i1::g.130820::m.130820	4,08E-121	348	XP_018856906.1	endochitinase 2-like	Juglans regia	XP_007201290.2
TRINITY_DN18306_c2_g1::TRINITY_DN18306_c2_g1_i5::g.98735::m.98735	0	597	XP_018816808.1	isocitrate dehydrogenase [NADP]	Juglans regia	XP_018816809.1
TRINITY_DN13776_c0_g1::TRINITY_DN13776_c0_g1_i2::g.28095::m.28095	1,48E-97	288	XP_008243957.1	adenosine kinase 2	Prunus mume	KYP67010.1
TRINITY_DN8833_c0_g1::TRINITY_DN8833_c0_g1_i2::g.2890::m.2890	2,11E-104	301	XP_018824166.1	peptidyl-prolyl cis-trans isomerase CYP19-3	Juglans regia	XP_008218307.1
TRINITY_DN16420_c0_g2::TRINITY_DN16420_c0_g2_i1::g.67374::m.67374	0	716	ONI36343.1	hypothetical protein PRUPE_1G581500	Prunus persica	XP_007222927.1
TRINITY_DN13666_c1_g1::TRINITY_DN13666_c1_g1_i6::g.26985::m.26985	2,77E-163	484	XP_018823946.1	receptor protein kinase TMK1-like	Juglans regia	XP_018837902.1
TRINITY_DN19405_c2_g1::TRINITY_DN19405_c2_g1_i12::g.117378::m.117378	3,21E-167	469	XP_018839732.1	cinnamoyl-CoA reductase 1-like	Juglans regia	BAE48658.1
TRINITY_DN18584_c1_g5::TRINITY_DN18584_c1_g5_i6::g.103010::m.103010	3,63E-132	376	XP_018843858.1	cysteine-rich repeat secretory protein 38-like isoform X1	Juglans regia	XP_018843859.1
TRINITY_DN16422_c1_g1::TRINITY_DN16422_c1_g1_i4::g.67346::m.67346	0	1211	XP_018826868.1	heat shock 70 kDa protein, mitochondrial	Juglans regia	XP_018846283.1
TRINITY_DN13815_c1_g2::TRINITY_DN13815_c1_g2_i8::g.28885::m.28885	5,23E-11	53,9	XP_018810694.1	UDP-glucuronic acid decarboxylase 6-like	Juglans regia	XP_018810694.1
TRINITY_DN14162_c4_g1::TRINITY_DN14162_c4_g1_i2::g.33191::m.33191	1,48E-126	360	XP_018843523.1	haloacid dehalogenase-like hydrolase domain-containing protein Sgpp isoform X3	Juglans regia	XP_018843521.1
TRINITY_DN15589_c0_g1::TRINITY_DN15589_c0_g1_i4::g.54099::m.54099	0	992	XP_018823509.1	leucine aminopeptidase 1-like	Juglans regia	XP_018810862.1
TRINITY_DN15010_c0_g3::TRINITY_DN15010_c0_g3_i5::g.45655::m.45655	0	918	XP_018844057.1	selenium-binding protein 2-like	Juglans regia	XP_018848542.1

TRINITY_DN16345_c0_g1::TRINITY_DN16345_c0_g1_i2::g.66198::m.66198	0	1538	XP_018851707.1	phospholipase D alpha 1	Juglans regia	XP_018850650.1
TRINITY_DN17420_c0_g2::TRINITY_DN17420_c0_g2_i1::g.83570::m.83570	0	620	XP_018859983.1	glyceraldehyde-3-phosphate dehydrogenase 2, cytosolic-like	Juglans regia	OAY47918.1
TRINITY_DN18333_c2_g6::TRINITY_DN18333_c2_g6_i1::g.98947::m.98947	3,41E-32	115	XP_018837516.1	uncharacterized protein LOC109003708	Juglans regia	ONI14778.1
TRINITY_DN18850_c2_g2::TRINITY_DN18850_c2_g2_i2::g.107178::m.107178	0	554	XP_018815562.1	uncharacterized protein LOC108987149 isoform X2	Juglans regia	XP_018815561.1
TRINITY_DN18145_c2_g1::TRINITY_DN18145_c2_g1_i9::g.95178::m.95178	6,37E-158	443	XP_018851414.1	carbonic anhydrase 2-like	Juglans regia	XP_018851415.1
TRINITY_DN17440_c0_g5::TRINITY_DN17440_c0_g5_i3::g.84089::m.84089	1,49E-91	277	XP_004504841.1	guanosine nucleotide diphosphate dissociation inhibitor At5g09550	Cicer arietinum	ONH90693.1
TRINITY_DN12537_c1_g2::TRINITY_DN12537_c1_g2_i4::g.13603::m.13603	1,49E-75	239	ONI11277.1	hypothetical protein PRUPE_4G098300	Prunus persica	XP_007211965.2
TRINITY_DN15426_c0_g2::TRINITY_DN15426_c0_g2_i4::g.51819::m.51819	2,22E-68	207	XP_018831298.1	tubulin-folding cofactor A-like	Juglans regia	XP_018831299.1
TRINITY_DN15464_c0_g2::TRINITY_DN15464_c0_g2_i1::g.52259::m.52259	0	674	XP_018841713.1	heat shock cognate 70 kDa protein 2	Juglans regia	OAY38647.1
TRINITY_DN14041_c2_g1::TRINITY_DN14041_c2_g1_i4::g.31794::m.31794	0	1072	OAY48214.1	hypothetical protein MANES_06G141300	Manihot esculenta	XP_019427299.1
TRINITY_DN14730_c2_g2::TRINITY_DN14730_c2_g2_i1::g.41382::m.41382	7,10E-36	122	CAC39160.1	putative LEA III protein isoform 1	Corylus avellana	CAC39110.1
TRINITY_DN19696_c3_g4::TRINITY_DN19696_c3_g4_i1::g.122257::m.122257	0	861	XP_018841811.1	aconitate hydratase, cytoplasmic isoform X1	Juglans regia	XP_018848484.1
TRINITY_DN16808_c0_g1::TRINITY_DN16808_c0_g1_i2::g.73724::m.73724	7,22E-123	354	XP_018807198.1	uncharacterized protein LOC108980651	Juglans regia	OAY33079.1
TRINITY_DN16940_c1_g2::TRINITY_DN16940_c1_g2_i2::g.75865::m.75865	4,35E-153	429	XP_018826002.1	endo-1,3;1,4-beta-D-glucanase isoform X2	Juglans regia	XP_018826001.1
TRINITY_DN14508_c8_g1::TRINITY_DN14508_c8_g1_i7::g.38377::m.38377	8,55E-86	251	XP_018830082.1	desiccation protectant protein Lea14 homolog	Juglans regia	XP_018847006.1
TRINITY_DN16840_c2_g1::TRINITY_DN16840_c2_g1_i1::g.74291::m.74291	0	574	OAY52428.1	hypothetical protein MANES_04G082800	Manihot esculenta	KYP68282.1
TRINITY_DN17614_c0_g2::TRINITY_DN17614_c0_g2_i5::g.87093::m.87093	0	816	XP_018819528.1	protein disulfide isomerase-like 1-4	Juglans regia	KDP44055.1
TRINITY_DN18004_c1_g6::TRINITY_DN18004_c1_g6_i1::g.93462::m.93462	8,63E-84	249	XP_009365718.1	glutathione S-transferase F13 isoform X1	Pyrus x bretschneideri	XP_018505025.1
TRINITY_DN13376_c2_g2::TRINITY_DN13376_c2_g2_i3::g.22986::m.22986	0	549	XP_018806957.1	vignain-like	Juglans regia	CAA40073.1
TRINITY_DN13606_c2_g2::TRINITY_DN13606_c2_g2_i1::g.26262::m.26262	0	961	XP_018816674.1	UDP-glucose 6-dehydrogenase 1-like	Juglans regia	XP_018816673.1
TRINITY_DN14755_c2_g2::TRINITY_DN14755_c2_g2_i1::g.41670::m.41670	1,67E-120	353	XP_018824948.1	probable cinnamyl alcohol dehydrogenase 9	Juglans regia	KDP35308.1
TRINITY_DN13024_c1_g2::TRINITY_DN13024_c1_g2_i1::g.18973::m.18973	3,32E-80	249	XP_018842710.1	probable pectinesterase/pectinesterase inhibitor 51	Juglans regia	XP_018860059.1

TRINITY_DN14909_c1_g2::TRINITY_DN14909_c1_g2_i4::g.44177::m.44177	0	1237	XP_007160650.1	hypothetical protein PHAVU_001G005200g	Phaseolus vulgaris	ESW32644.1
TRINITY_DN19579_c1_g1::TRINITY_DN19579_c1_g1_i2::g.120372::m.120372	0	761	XP_018809083.1	delta-1-pyrroline-5-carboxylate synthase isoform X1	Juglans regia	OAY46148.1
TRINITY_DN14204_c0_g1::TRINITY_DN14204_c0_g1_i1::g.33924::m.33924	3,06E-51	164	XP_018855562.1	pectinesterase PPME1-like, partial	Juglans regia	XP_018855560.1
TRINITY_DN12067_c0_g1::TRINITY_DN12067_c0_g1_i1::g.10231::m.10231	4,25E-85	248	XP_008231331.1	thioredoxin-like protein Clot	Prunus mume	ONI20288.1
TRINITY_DN18581_c2_g2::TRINITY_DN18581_c2_g2_i16::g.102885::m.102885	1,06E-80	250	XP_018818966.1	serine carboxypeptidase-like	Juglans regia	OIW09125.1
TRINITY_DN13947_c3_g5::TRINITY_DN13947_c3_g5_i8::g.30694::m.30694	7,25E-176	488	XP_018833512.1	hydroxyacylglutathione hydrolase cytoplasmic	Juglans regia	XP_019430954.1
TRINITY_DN18713_c3_g1::TRINITY_DN18713_c3_g1_i8::g.105061::m.105061	0	775	XP_018849508.1	protein DJ-1 homolog B-like	Juglans regia	KDP32522.1
TRINITY_DN19957_c3_g2::TRINITY_DN19957_c3_g2_i9::g.126783::m.126783	4,55E-93	269	ONI23028.1	hypothetical protein PRUPE_2G165300	Prunus persica	XP_007218574.1
TRINITY_DN18489_c2_g2::TRINITY_DN18489_c2_g2_i5::g.101255::m.101255	3,28E-101	290	ADU56174.1	ubiquitin-conjugating family protein	Jatropha curcas	ADV04060.1
TRINITY_DN15194_c1_g2::TRINITY_DN15194_c1_g2_i1::g.48344::m.48344	6,92E-64	194	OAY50655.1	hypothetical protein MANES_05G153800	Manihot esculenta	AEC03317.1
TRINITY_DN17177_c3_g1::TRINITY_DN17177_c3_g1_i5::g.79706::m.79706	3,18E-91	271	KDP34528.1	hypothetical protein JCGZ_11078	Jatropha curcas	XP_012075988.1
TRINITY_DN13227_c0_g1::TRINITY_DN13227_c0_g1_i8::g.21288::m.21288	0	1147	XP_018839074.1	UDP-sugar pyrophosphorylase-like	Juglans regia	XP_018849179.1
TRINITY_DN18988_c0_g2::TRINITY_DN18988_c0_g2_i2::g.109900::m.109900	2,50E-66	209	KDP25066.1	hypothetical protein JCGZ_22601	Jatropha curcas	XP_012087351.1
TRINITY_DN13588_c3_g5::TRINITY_DN13588_c3_g5_i3::g.25866::m.25866	1,61E-178	499	OIW02196.1	hypothetical protein TanjilG_21849	Lupinus angustifolius	XP_019461195.1
TRINITY_DN15896_c1_g3::TRINITY_DN15896_c1_g3_i4::g.58593::m.58593	2,36E-129	372	XP_018829560.1	peroxidase 64-like	Juglans regia	OAY60924.1
TRINITY_DN15954_c0_g1::TRINITY_DN15954_c0_g1_i1::g.59385::m.59385	0	559	ONI35090.1	hypothetical protein PRUPE_1G515200	Prunus persica	XP_007227485.1
TRINITY_DN15441_c0_g2::TRINITY_DN15441_c0_g2_i3::g.51488::m.51488	3,71E-78	229	XP_018834238.1	cytochrome c	Juglans regia	OIW11132.1
TRINITY_DN18164_c1_g2::TRINITY_DN18164_c1_g2_i2::g.96243::m.96243	1,43E-170	488	KDP44975.1	hypothetical protein JCGZ_01475	Jatropha curcas	OAY46075.1
TRINITY_DN18961_c1_g1::TRINITY_DN18961_c1_g1_i1::g.109399::m.109399	2,47E-174	484	XP_018838373.1	protein CDI-like	Juglans regia	XP_016651707.1
TRINITY_DN12699_c0_g1::TRINITY_DN12699_c0_g1_i1::g.14170::m.14170	2,63E-98	283	CAA74365.1	putative Ole e 1 protein	Betula pendula	O49813.1
TRINITY_DN16736_c3_g2::TRINITY_DN16736_c3_g2_i1::g.72521::m.72521	0	737	XP_018826582.1	malate dehydrogenase, chloroplastic	Juglans regia	XP_018826583.1
TRINITY_DN13916_c2_g1::TRINITY_DN13916_c2_g1_i2::g.30380::m.30380	0	1691	XP_018832881.1	staphylococcal nuclease domain-containing protein 1-like	Juglans regia	XP_018832889.1

TRINITY_DN12824_c2_g2::TRINITY_DN12824_c2_g2_i6::g.16244::m.16244	6,11E-113	325	KDP46494.1	hypothetical protein JCGZ_08466	Jatropha curcas	XP_012067558.1
TRINITY_DN19247_c0_g1::TRINITY_DN19247_c0_g1_i9::g.114529::m.114529	0	965	XP_018859052.1	coatomer subunit delta	Juglans regia	XP_018859053.1
TRINITY_DN12966_c3_g1::TRINITY_DN12966_c3_g1_i1::g.17946::m.17946	0	1316	XP_018807321.1	aconitate hydratase 1	Juglans regia	ONH97192.1
TRINITY_DN12426_c1_g1::TRINITY_DN12426_c1_g1_i1::g.12851::m.12851	8,57E-142	407	XP_018859879.1	altered inheritance of mitochondria protein 32-like	Juglans regia	ONI19698.1
TRINITY_DN16163_c6_g1::TRINITY_DN16163_c6_g1_i3::g.63330::m.63330	4,28E-43	148	XP_007143494.1	hypothetical protein PHAVU_007G0765000g, partial	Phaseolus vulgaris	ESW15488.1
TRINITY_DN19582_c3_g2::TRINITY_DN19582_c3_g2_i6::g.120115::m.120115	1,35E-134	388	ONI24902.1	hypothetical protein PRUPE_2G268500	Prunus persica	XP_007218171.1
TRINITY_DN18840_c3_g1::TRINITY_DN18840_c3_g1_i1::g.107249::m.107249	9,76E-83	248	XP_018833669.1	chorismate mutase 2	Juglans regia	ONI32909.1
TRINITY_DN14341_c0_g1::TRINITY_DN14341_c0_g1_i1::g.35559::m.35559	0	886	XP_018820845.1	xylose isomerase	Juglans regia	XP_012065287.1
TRINITY_DN16376_c0_g2::TRINITY_DN16376_c0_g2_i2::g.66583::m.66583	0	1615	XP_018836580.1	aminopeptidase M1-like	Juglans regia	XP_018836577.1
TRINITY_DN14576_c1_g5::TRINITY_DN14576_c1_g5_i7::g.39012::m.39012	1,88E-86	252	XP_018830768.1	actin-depolymerizing factor 7	Juglans regia	XP_018828430.1
TRINITY_DN12837_c2_g2::TRINITY_DN12837_c2_g2_i7::g.16580::m.16580	1,29E-101	304	XP_018847365.1	probable polygalacturonase	Juglans regia	XP_018847358.1
TRINITY_DN19292_c1_g3::TRINITY_DN19292_c1_g3_i1::g.115388::m.115388	0	710	OAY48624.1	hypothetical protein MANES_06G172600	Manihot esculenta	OAY30259.1
TRINITY_DN19563_c2_g1::TRINITY_DN19563_c2_g1_i4::g.120333::m.120333	0	1741	XP_018839458.1	villin-4-like	Juglans regia	XP_018839459.1
TRINITY_DN15394_c0_g1::TRINITY_DN15394_c0_g1_i2::g.49883::m.49883	0	1565	XP_018837600.1	alpha-glucan phosphorylase, H isozyme-like isoform X2	Juglans regia	XP_018837598.1
TRINITY_DN17751_c2_g3::TRINITY_DN17751_c2_g3_i5::g.89327::m.89327	0	1248	XP_018848851.1	trifunctional UDP-glucose 4,6-dehydratase/UDP-4-keto-6-deoxy-D-glucose 3,5-epimerase/UDP-4-keto-L-rhamnose-reductase RHM1	Juglans regia	KHN36936.1
TRINITY_DN16246_c1_g1::TRINITY_DN16246_c1_g1_i7::g.63898::m.63898	7,06E-75	221	XP_018846792.1	peptidyl-prolyl cis-trans isomerase FKBP12	Juglans regia	AFK34981.1
TRINITY_DN17837_c2_g1::TRINITY_DN17837_c2_g1_i9::g.90611::m.90611	0	838	XP_018811769.1	aspartate aminotransferase, cytoplasmic	Juglans regia	XP_008220042.1
TRINITY_DN14185_c5_g3::TRINITY_DN14185_c5_g3_i3::g.33391::m.33391	0	624	XP_020538312.1	malate dehydrogenase, cytoplasmic isoform X1	Jatropha curcas	KDP28817.1
TRINITY_DN17690_c0_g3::TRINITY_DN17690_c0_g3_i4::g.88277::m.88277	3,47E-82	243	GAU20477.1	hypothetical protein TSUD_130350	Trifolium subterraneum	KHN13335.1
TRINITY_DN18947_c6_g5::TRINITY_DN18947_c6_g5_i2::g.109307::m.109307	1,03E-52	174	XP_008345990.1	zingipain-2-like	Malus domestica	XP_018830467.1
TRINITY_DN16121_c0_g1::TRINITY_DN16121_c0_g1_i8::g.62467::m.62467	1,31E-66	202	XP_018848559.1	coatomer subunit zeta-2-like isoform X1	Juglans regia	XP_018848561.1

TRINITY_DN19791_c7_g1::TRINITY_DN19791_c7_g1_i1::g.123736::m.123736	0	550	XP_018844468.1	serine carboxypeptidase-like 40	Juglans regia	ONI20592.1
TRINITY_DN13992_c5_g1::TRINITY_DN13992_c5_g1_i1::g.31138::m.31138	2,33E-47	153	CAA54489.1	Bet v 1 l	Betula pendula	P43185.2
TRINITY_DN18360_c0_g4::TRINITY_DN18360_c0_g4_i2::g.99196::m.99196	1,26E-173	499	XP_018814481.1	heat shock cognate 70 kDa protein 2-like	Juglans regia	ONI24313.1
TRINITY_DN17227_c2_g4::TRINITY_DN17227_c2_g4_i1::g.80549::m.80549	0	827	XP_018808164.1	flavin-dependent oxidoreductase FOX2-like	Juglans regia	XP_020230785.1
TRINITY_DN15584_c3_g1::TRINITY_DN15584_c3_g1_i1::g.54058::m.54058	3,87E-93	269	XP_018852846.1	uncharacterized protein At4g28440-like	Juglans regia	KDP26583.1
TRINITY_DN15581_c1_g3::TRINITY_DN15581_c1_g3_i1::g.54122::m.54122	0	703	XP_018855304.1	phosphoserine aminotransferase 1, chloroplastic-like	Juglans regia	XP_018852010.1
TRINITY_DN16112_c0_g1::TRINITY_DN16112_c0_g1_i3::g.62802::m.62802	1,99E-84	260	KDP35730.1	hypothetical protein JCGZ_10502	Jatropha curcas	XP_012074723.1
TRINITY_DN14318_c1_g3::TRINITY_DN14318_c1_g3_i3::g.35377::m.35377	1,35E-24	96,7	XP_008386682.1	pectinesterase inhibitor-like	Malus domestica	XP_018818001.1
TRINITY_DN15029_c2_g1::TRINITY_DN15029_c2_g1_i2::g.45973::m.45973	8,51E-60	182	XP_018847733.1	small ubiquitin-related modifier 1-like	Juglans regia	XP_018818051.1
TRINITY_DN13265_c1_g1::TRINITY_DN13265_c1_g1_i6::g.21679::m.21679	5,87E-178	493	KDP41387.1	hypothetical protein JCGZ_15794	Jatropha curcas	XP_012067879.1
TRINITY_DN17067_c1_g2::TRINITY_DN17067_c1_g2_i1::g.77892::m.77892	0	1212	XP_018851647.1	subtilisin-like protease SBT1.7 isoform X1	Juglans regia	XP_018851649.1
TRINITY_DN19292_c1_g4::TRINITY_DN19292_c1_g4_i1::g.115390::m.115390	0	1000	XP_004488810.1	elongation factor 2	Cicer arietinum	XP_004488812.1
TRINITY_DN17861_c1_g1::TRINITY_DN17861_c1_g1_i8::g.90805::m.90805	4,66E-99	289	XP_018818881.1	L-ascorbate peroxidase, cytosolic	Juglans regia	XP_018818882.1
TRINITY_DN18164_c1_g1::TRINITY_DN18164_c1_g1_i4::g.96244::m.96244	0	1229	XP_018817834.1	stromal 70 kDa heat shock-related protein, chloroplastic-like	Juglans regia	XP_018817839.1
TRINITY_DN14877_c0_g1::TRINITY_DN14877_c0_g1_i9::g.43584::m.43584	7,99E-144	409	XP_018829015.1	binding partner of ACD11 1-like	Juglans regia	KRH74377.1
TRINITY_DN12561_c1_g1::TRINITY_DN12561_c1_g1_i2::g.13897::m.13897	1,03E-35	131	XP_018842710.1	probable pectinesterase/pectinesterase inhibitor 51	Juglans regia	XP_018860059.1
TRINITY_DN20029_c3_g4::TRINITY_DN20029_c3_g4_i4::g.128107::m.128107	2,17E-75	233	XP_020218559.1	mannan endo-1,4-beta-mannosidase 7-like	Cajanus cajan	XP_018821126.1
TRINITY_DN14766_c7_g2::TRINITY_DN14766_c7_g2_i3::g.41862::m.41862	0	1092	XP_018824334.1	granule-bound starch synthase 1, chloroplastic/amyloplastic-like isoform X1	Juglans regia	XP_018824335.1
TRINITY_DN16988_c0_g1::TRINITY_DN16988_c0_g1_i6::g.76602::m.76602	0	571	XP_018850787.1	annexin D2-like	Juglans regia	XP_018834475.1
TRINITY_DN12011_c0_g1::TRINITY_DN12011_c0_g1_i3::g.9976::m.9976	3,59E-106	323	XP_018847976.1	FAM10 family protein At4g22670-like	Juglans regia	XP_018847976.1
TRINITY_DN15069_c0_g1::TRINITY_DN15069_c0_g1_i1::g.46535::m.46535	9,07E-127	360	XP_018849930.1	rho GDP-dissociation inhibitor 1-like	Juglans regia	XP_018809557.1
TRINITY_DN12538_c0_g3::TRINITY_DN12538_c0_g3_i3::g.13566::m.13566	0	657	XP_018824378.1	UDP-glucose 4-epimerase GEPI48	Juglans regia	XP_018857524.1

TRINITY_DN18548_c0_g1::TRINITY_DN18548_c0_g1_i8::g.102421::m.102421	2,33E-101	296	XP_018825058.1	elongation factor 1-delta-like	Juglans regia	XP_018825059.1
TRINITY_DN19710_c5_g3::TRINITY_DN19710_c5_g3_i4::g.122648::m.122648	0	835	XP_018850343.1	glycerophosphodiester phosphodiesterase GDPDL6-like	Juglans regia	XP_018833427.1
TRINITY_DN13376_c2_g1::TRINITY_DN13376_c2_g1_i2::g.22983::m.22983	1,59E-110	316	XP_018814979.1	peptide methionine sulfoxide reductase-like	Juglans regia	KDP30996.1
TRINITY_DN18686_c0_g1::TRINITY_DN18686_c0_g1_i9::g.104732::m.104732	0	1013	XP_018840459.1	primary amine oxidase	Juglans regia	ONI26240.1
TRINITY_DN17312_c0_g3::TRINITY_DN17312_c0_g3_i1::g.81763::m.81763	0	991	XP_018827473.1	D-3-phosphoglycerate dehydrogenase 1, chloroplastic-like	Juglans regia	XP_018851254.1
TRINITY_DN19604_c2_g3::TRINITY_DN19604_c2_g3_i3::g.120758::m.120758	1,47E-55	184	XP_008374126.1	LOW QUALITY PROTEIN: endoglucanase CX-like	Malus domestica	OAY59087.1
TRINITY_DN16248_c1_g2::TRINITY_DN16248_c1_g2_i8::g.64559::m.64559	2,37E-90	267	XP_018838677.1	inositol-phosphate phosphatase-like	Juglans regia	OAY22088.1
TRINITY_DN19596_c1_g1::TRINITY_DN19596_c1_g1_i8::g.120430::m.120430	5,17E-147	426	XP_007139719.1	hypothetical protein PHAVU_008G053600g	Phaseolus vulgaris	ESW11713.1
TRINITY_DN18641_c0_g1::TRINITY_DN18641_c0_g1_i1::g.103822::m.103822	5,35E-27	100	XP_018835725.1	EPIDERMAL PATTERNING FACTOR-like protein 6 isoform X1	Juglans regia	XP_018828520.1
TRINITY_DN14398_c0_g1::TRINITY_DN14398_c0_g1_i7::g.36405::m.36405	0	662	XP_018843013.1	NPL4-like protein 1	Juglans regia	XP_008234969.1
TRINITY_DN12966_c1_g1::TRINITY_DN12966_c1_g1_i2::g.17932::m.17932	0	859	XP_018841811.1	aconitate hydratase, cytoplasmic isoform X1	Juglans regia	XP_018841812.1
TRINITY_DN16827_c1_g1::TRINITY_DN16827_c1_g1_i8::g.73997::m.73997	0	810	XP_018827302.1	succinate--CoA ligase [ADP-forming] subunit beta, mitochondrial	Juglans regia	XP_018847166.1
TRINITY_DN13204_c1_g1::TRINITY_DN13204_c1_g1_i4::g.21099::m.21099	1,01E-55	174	XP_018821061.1	subtilisin-like protease SBT3.17	Juglans regia	XP_015953072.1
TRINITY_DN13564_c1_g1::TRINITY_DN13564_c1_g1_i6::g.26053::m.26053	1,76E-86	252	XP_018840715.1	cytochrome b5, seed isoform	Juglans regia	OAY34758.1
TRINITY_DN13916_c3_g1::TRINITY_DN13916_c3_g1_i2::g.30393::m.30393	0	705	XP_014505844.1	calnexin homolog isoform X1	Vigna radiata var. radiata	CBM36851.1
TRINITY_DN18427_c0_g1::TRINITY_DN18427_c0_g1_i8::g.100422::m.100422	1,70E-87	254	XP_018842805.1	cytochrome b5-like	Juglans regia	XP_018842806.1
TRINITY_DN14460_c2_g2::TRINITY_DN14460_c2_g2_i7::g.37472::m.37472	0	915	APO15267.1	glutathione reductase 2	Prunus avium	ONI26113.1
TRINITY_DN7586_c0_g2::TRINITY_DN7586_c0_g2_i1::g.2208::m.2208	2,69E-62	190	XP_018842089.1	basic blue protein-like	Juglans regia	OIW18081.1
TRINITY_DN19791_c7_g2::TRINITY_DN19791_c7_g2_i1::g.123738::m.123738	9,36E-33	122	GAU46802.1	hypothetical protein TSUD_268630, partial	Trifolium subterraneum	KEH17669.1
TRINITY_DN14970_c1_g1::TRINITY_DN14970_c1_g1_i3::g.45037::m.45037	0	1026	XP_018839307.1	chaperonin CPN60-2, mitochondrial	Juglans regia	XP_018850271.1
TRINITY_DN12692_c0_g1::TRINITY_DN12692_c0_g1_i7::g.14951::m.14951	0	757	XP_018838095.1	3-hydroxyisobutyryl-CoA hydrolase-like protein 3, mitochondrial isoform X1	Juglans regia	XP_018838098.1
TRINITY_DN14755_c2_g1::TRINITY_DN14755_c2_g1_i4::g.41671::m.41671	1,20E-57	186	XP_018824948.1	probable cinnamyl alcohol dehydrogenase 9	Juglans regia	ONI01833.1

TRINITY_DN18875_c2_g2::TRINITY_DN18875_c2_g2_i2::g.107929::m.107929	0	687	XP_008240928.1	actin-like	Prunus mume	XP_008240929.1
TRINITY_DN16364_c0_g1::TRINITY_DN16364_c0_g1_i6::g.66368::m.66368	0	1238	XP_018838281.1	V-type proton ATPase catalytic subunit A	Juglans regia	OAY48691.1
TRINITY_DN16368_c1_g2::TRINITY_DN16368_c1_g2_i3::g.66564::m.66564	1,61E-79	234	XP_018813964.1	ubiquitin-conjugating enzyme E2-17 kDa	Juglans regia	XP_018813970.1
TRINITY_DN16555_c1_g6::TRINITY_DN16555_c1_g6_i1::g.69342::m.69342	9,60E-71	221	ONI01209.1	hypothetical protein PRUPE_6G128200	Prunus persica	XP_007207766.1
TRINITY_DN14266_c0_g1::TRINITY_DN14266_c0_g1_i8::g.34769::m.34769	0	1471	OAY42704.1	hypothetical protein MANES_08G009500	Manihot esculenta	OAY51548.1
TRINITY_DN12221_c0_g1::TRINITY_DN12221_c0_g1_i1::g.11196::m.11196	4,06E-66	202	XP_018836953.1	early nodulin-like protein 1	Juglans regia	XP_018832258.1
TRINITY_DN14696_c0_g1::TRINITY_DN14696_c0_g1_i1::g.40665::m.40665	5,43E-61	192	XP_018810857.1	early nodulin-like protein 1	Juglans regia	KDP33508.1
TRINITY_DN19169_c1_g3::TRINITY_DN19169_c1_g3_i6::g.113174::m.113174	3,86E-72	223	XP_008237913.1	cinnamoyl-CoA reductase 2-like isoform X1	Prunus mume	KDP36740.1
TRINITY_DN13729_c0_g1::TRINITY_DN13729_c0_g1_i8::g.27674::m.27674	3,67E-169	477	XP_018816089.1	probable carboxylesterase 2	Juglans regia	XP_008220200.1
TRINITY_DN16649_c0_g2::TRINITY_DN16649_c0_g2_i3::g.71022::m.71022	0	2069	XP_018845113.1	protein TPLATE isoform X1	Juglans regia	XP_018845114.1
TRINITY_DN16233_c2_g1::TRINITY_DN16233_c2_g1_i1::g.64327::m.64327	0	509	XP_018809432.1	mitochondrial dicarboxylate/tricarboxylate transporter DTC-like	Juglans regia	OAY54741.1
TRINITY_DN16571_c1_g1::TRINITY_DN16571_c1_g1_i8::g.69835::m.69835	3,25E-132	373	XP_018807996.1	glycolipid transfer protein 1-like	Juglans regia	XP_018808001.1
TRINITY_DN18328_c0_g1::TRINITY_DN18328_c0_g1_i9::g.98876::m.98876	3,79E-145	412	XP_018823093.1	carbonic anhydrase 2-like	Juglans regia	XP_018828792.1
TRINITY_DN16032_c0_g1::TRINITY_DN16032_c0_g1_i2::g.60897::m.60897	0	627	XP_018828122.1	glutelin type-B 5-like	Juglans regia	XP_018828123.1
TRINITY_DN12769_c0_g3::TRINITY_DN12769_c0_g3_i1::g.15717::m.15717	2,81E-59	184	XP_018844068.1	glycine-rich RNA-binding protein 2, mitochondrial-like	Juglans regia	XP_018844069.1
TRINITY_DN17019_c1_g3::TRINITY_DN17019_c1_g3_i1::g.77181::m.77181	5,54E-120	343	XP_018819182.1	ran-binding protein 1 homolog a-like	Juglans regia	XP_018835624.1
TRINITY_DN17448_c2_g3::TRINITY_DN17448_c2_g3_i9::g.83903::m.83903	0	1224	XP_018857281.1	villin-3-like isoform X1	Juglans regia	XP_018857281.1
TRINITY_DN16630_c2_g1::TRINITY_DN16630_c2_g1_i6::g.70777::m.70777	5,83E-135	382	XP_018806495.1	14-3-3-like protein	Juglans regia	XP_016163651.1
TRINITY_DN12516_c0_g1::TRINITY_DN12516_c0_g1_i2::g.13472::m.13472	0	1511	XP_018824768.1	sucrose synthase 2	Juglans regia	AGM14947.1
TRINITY_DN12883_c0_g1::TRINITY_DN12883_c0_g1_i6::g.16879::m.16879	5,81E-132	375	XP_018858784.1	lactoylglutathione lyase isoform X1	Juglans regia	XP_008385523.1
TRINITY_DN19263_c0_g3::TRINITY_DN19263_c0_g3_i4::g.114811::m.114811	0	765	XP_018837044.1	probable cytosolic oligopeptidase A	Juglans regia	XP_018813437.1
TRINITY_DN19354_c2_g2::TRINITY_DN19354_c2_g2_i9::g.116448::m.116448	3,31E-104	303	XP_018835464.1	glutathione S-transferase-like	Juglans regia	XP_018857389.1

TRINITY_DN13726_c0_g3::TRINITY_DN13726_c0_g3_i1::g.27596::m.27596	0	887	XP_008380545.1	elongation factor 1-alpha	Malus domestica	XP_008365661.1
TRINITY_DN20049_c7_g1::TRINITY_DN20049_c7_g1_i11::g.128495::m.128495	0	747	XP_018806799.1	glycerol kinase	Juglans regia	XP_008372701.1
TRINITY_DN11737_c0_g1::TRINITY_DN11737_c0_g1_i1::g.8601::m.8601	1,08E-96	279	XP_018819438.1	nucleoside diphosphate kinase B	Juglans regia	OIW18826.1
TRINITY_DN15578_c0_g1::TRINITY_DN15578_c0_g1_i2::g.54153::m.54153	6,39E-111	316	GAU49703.1	hypothetical protein TSUD_182010	Trifolium subterraneum	OIW17591.1
TRINITY_DN15120_c1_g1::TRINITY_DN15120_c1_g1_i1::g.47172::m.47172	1,59E-176	496	XP_018841745.1	uncharacterized protein At5g02240-like	Juglans regia	ONI03446.1
TRINITY_DN11278_c0_g2::TRINITY_DN11278_c0_g2_i1::g.6843::m.6843	9,20E-56	178	XP_018826050.1	acyl carrier protein 1, chloroplastic-like	Juglans regia	XP_018840594.1
TRINITY_DN19745_c0_g1::TRINITY_DN19745_c0_g1_i7::g.123245::m.123245	0	1483	XP_018822921.1	methionine--tRNA ligase, cytoplasmic	Juglans regia	XP_008232482.1
TRINITY_DN13377_c3_g2::TRINITY_DN13377_c3_g2_i9::g.23085::m.23085	1,76E-135	384	XP_008221708.1	glutathione S-transferase U17-like	Prunus mume	ONI30654.1
TRINITY_DN15863_c0_g2::TRINITY_DN15863_c0_g2_i4::g.58135::m.58135	0	593	OAY46717.1	hypothetical protein MANES_06G021500	Manihot esculenta	KYP62381.1
TRINITY_DN18548_c0_g1::TRINITY_DN18548_c0_g1_i3::g.102416::m.102416	3,32E-125	358	XP_018825058.1	elongation factor 1-delta-like	Juglans regia	XP_018825059.1
TRINITY_DN10779_c0_g1::TRINITY_DN10779_c0_g1_i3::g.5511::m.5511	0	546	ABW06959.1	isopentenyl pyrophosphate isomerase	Corylus avellana	XP_018815655.1
TRINITY_DN15451_c0_g1::TRINITY_DN15451_c0_g1_i8::g.52025::m.52025	0	725	XP_018825160.1	ubiquitin-like modifier-activating enzyme 5	Juglans regia	XP_009368530.1
TRINITY_DN14435_c3_g2::TRINITY_DN14435_c3_g2_i6::g.36467::m.36467	0	934	XP_018849756.1	ATP synthase subunit beta, mitochondrial	Juglans regia	XP_008243316.1
TRINITY_DN19361_c0_g1::TRINITY_DN19361_c0_g1_i10::g.117059::m.117059	0	1853	XP_018826880.1	DNA polymerase V	Juglans regia	XP_008237045.1
TRINITY_DN11635_c0_g1::TRINITY_DN11635_c0_g1_i7::g.8217::m.8217	0	748	XP_018843179.1	fructose-bisphosphate aldolase 3, chloroplastic	Juglans regia	ONI31556.1
TRINITY_DN12062_c0_g1::TRINITY_DN12062_c0_g1_i4::g.10228::m.10228	0	931	KDP45160.1	hypothetical protein JCGZ_15025	Jatropha curcas	XP_012083963.1
TRINITY_DN13692_c1_g1::TRINITY_DN13692_c1_g1_i1::g.26628::m.26628	0	611	CAA05979.1	adenine nucleotide translocator	Lupinus albus	XP_018816668.1
TRINITY_DN16939_c1_g2::TRINITY_DN16939_c1_g2_i8::g.75928::m.75928	2,61E-127	361	XP_018813989.1	vesicle transport v-SNARE 13-like	Juglans regia	XP_018813990.1
TRINITY_DN13776_c0_g2::TRINITY_DN13776_c0_g2_i2::g.28097::m.28097	4,27E-147	417	XP_018844827.1	adenosine kinase 2-like	Juglans regia	XP_008233303.1
TRINITY_DN15671_c0_g2::TRINITY_DN15671_c0_g2_i5::g.55277::m.55277	0	1055	XP_018826687.1	glucose-6-phosphate isomerase, cytosolic	Juglans regia	KRH61180.1
TRINITY_DN18192_c1_g2::TRINITY_DN18192_c1_g2_i5::g.96646::m.96646	0	566	XP_018811421.1	polyadenylate-binding protein RBP45C-like	Juglans regia	XP_018824161.1
TRINITY_DN18029_c5_g1::TRINITY_DN18029_c5_g1_i6::g.93985::m.93985	0	849	XP_018822246.1	aspartate aminotransferase P2, mitochondrial-like	Juglans regia	XP_018822247.1

TRINITY_DN14933_c0_g2::TRINITY_DN14933_c0_g2_i3::g.44460::m.44460	7,94E-104	299	XP_018836279.1	uncharacterized protein LOC109002826	Juglans regia	XP_018836280.1
TRINITY_DN16437_c1_g2::TRINITY_DN16437_c1_g2_i4::g.67526::m.67526	0	947	XP_018844065.1	serine hydroxymethyltransferase 4	Juglans regia	XP_018848538.1
TRINITY_DN19108_c2_g3::TRINITY_DN19108_c2_g3_i2::g.112222::m.112222	1,08E-64	209	XP_018858996.1	receptor-like protein kinase FERONIA	Juglans regia	XP_018858995.1
TRINITY_DN18028_c1_g1::TRINITY_DN18028_c1_g1_i5::g.93929::m.93929	0	882	XP_018844173.1	peptidyl-prolyl cis-trans isomerase FKBP62-like isoform X1	Juglans regia	XP_018844174.1
TRINITY_DN12699_c0_g1::TRINITY_DN12699_c0_g1_i7::g.14174::m.14174	5,47E-57	178	CAA74365.1	putative Ole e 1 protein	Betula pendula	O49813.1
TRINITY_DN19669_c1_g1::TRINITY_DN19669_c1_g1_i10::g.121794::m.121794	1,19E-103	301	XP_018807198.1	uncharacterized protein LOC108980651	Juglans regia	OAY33079.1
TRINITY_DN14038_c1_g2::TRINITY_DN14038_c1_g2_i5::g.31646::m.31646	0	755	XP_018835118.1	eukaryotic initiation factor 4A-15	Juglans regia	XP_018835119.1
TRINITY_DN16581_c1_g3::TRINITY_DN16581_c1_g3_i2::g.69928::m.69928	0	1092	ONI09648.1	hypothetical protein PRUPE_4G001800	Prunus persica	XP_020418597.1
TRINITY_DN16667_c0_g2::TRINITY_DN16667_c0_g2_i1::g.71232::m.71232	0	1286	XP_018848062.1	transketolase, chloroplastic	Juglans regia	XP_018856789.1
TRINITY_DN16967_c3_g1::TRINITY_DN16967_c3_g1_i3::g.76257::m.76257	0	544	XP_018823791.1	triosephosphate isomerase, chloroplastic	Juglans regia	XP_020425754.1
TRINITY_DN14845_c0_g2::TRINITY_DN14845_c0_g2_i5::g.43176::m.43176	0	969	OAY52288.1	hypothetical protein MANES_04G071200	Manihot esculenta	XP_004492897.1
TRINITY_DN9429_c0_g1::TRINITY_DN9429_c0_g1_i1::g.3466::m.3466	0	723	XP_018857901.1	alpha-galactosidase 1-like	Juglans regia	XP_008389053.1
TRINITY_DN12329_c1_g1::TRINITY_DN12329_c1_g1_i1::g.11925::m.11925	0	656	XP_018841575.1	uncharacterized protein At2g17340-like	Juglans regia	XP_018841576.1
TRINITY_DN17549_c7_g7::TRINITY_DN17549_c7_g7_i1::g.85830::m.85830	8,26E-30	115	XP_018858816.1	probable receptor-like protein kinase At5g24010	Juglans regia	XP_018845045.1
TRINITY_DN16210_c2_g2::TRINITY_DN16210_c2_g2_i2::g.64102::m.64102	8,37E-146	409	XP_015937554.1	GTP-binding nuclear protein Ran-3	Arachis duranensis	XP_018841051.1
TRINITY_DN18132_c2_g1::TRINITY_DN18132_c2_g1_i3::g.95646::m.95646	8,41E-49	155	XP_018821975.1	thioredoxin H-type	Juglans regia	XP_018821976.1
TRINITY_DN12647_c0_g1::TRINITY_DN12647_c0_g1_i2::g.14733::m.14733	4,69E-126	380	XP_018847842.1	coatomer subunit gamma-2	Juglans regia	XP_018836922.1
TRINITY_DN19952_c2_g2::TRINITY_DN19952_c2_g2_i3::g.126557::m.126557	0	556	XP_018809774.1	protein transport protein SEC31 homolog B-like isoform X1	Juglans regia	XP_018809776.1
TRINITY_DN17973_c0_g3::TRINITY_DN17973_c0_g3_i3::g.92497::m.92497	0	1154	KYP61930.1	Heat shock protein 83	Cajanus cajan	XP_020220602.1
TRINITY_DN16421_c0_g1::TRINITY_DN16421_c0_g1_i1::g.67240::m.67240	0	736	XP_018837352.1	beta-fructofuranosidase, insoluble isoenzyme 1-like	Juglans regia	XP_009372510.1
TRINITY_DN32757_c0_g1::TRINITY_DN32757_c0_g1_i1::g.130429::m.130429	5,41E-10	60,1	XP_018831391.1	uncharacterized protein LOC108999052	Juglans regia	XP_018806439.1
TRINITY_DN14021_c1_g2::TRINITY_DN14021_c1_g2_i5::g.31431::m.31431	0	614	OAY50881.1	hypothetical protein MANES_05G169500	Manihot esculenta	XP_008220716.1

TRINITY_DN20011_c3_g2::TRINITY_DN20011_c3_g2_i2::g.127835::m.127835	0	973	XP_018845708.1	beta-galactosidase-like	Juglans regia	XP_018845720.1
TRINITY_DN16305_c0_g1::TRINITY_DN16305_c0_g1_i3::g.65508::m.65508	1,83E-69	216	XP_018813581.1	uncharacterized protein Os08g0359500	Juglans regia	OAY49527.1
TRINITY_DN12041_c0_g1::TRINITY_DN12041_c0_g1_i1::g.10132::m.10132	6,20E-174	487	XP_018826881.1	soluble inorganic pyrophosphatase 6, chloroplastic-like	Juglans regia	XP_018844455.1
TRINITY_DN15348_c2_g2::TRINITY_DN15348_c2_g2_i4::g.50676::m.50676	0	621	XP_018829808.1	probable UDP-arabinopyranose mutase 5 isoform X1	Juglans regia	XP_018829809.1
TRINITY_DN14545_c0_g2::TRINITY_DN14545_c0_g2_i2::g.38716::m.38716	0	861	XP_016204269.1	tubulin beta-1 chain	Arachis ipaensis	XP_015967408.1
TRINITY_DN13014_c6_g2::TRINITY_DN13014_c6_g2_i4::g.18867::m.18867	0	858	KDP44552.1	hypothetical protein JCGZ_16385	Jatropha curcas	OAY39347.1
TRINITY_DN16814_c2_g1::TRINITY_DN16814_c2_g1_i8::g.73807::m.73807	2,50E-102	299	XP_018807368.1	probable ATP synthase 24 kDa subunit, mitochondrial isoform X2	Juglans regia	XP_018807367.1
TRINITY_DN14872_c2_g2::TRINITY_DN14872_c2_g2_i2::g.43670::m.43670	0	2539	XP_018805215.1	alpha-glucan water dikinase, chloroplastic isoform X2	Juglans regia	XP_018805213.1
TRINITY_DN13283_c0_g1::TRINITY_DN13283_c0_g1_i3::g.21813::m.21813	0	641	XP_018822731.1	60S ribosomal protein L4	Juglans regia	XP_018850207.1
TRINITY_DN14986_c4_g1::TRINITY_DN14986_c4_g1_i9::g.45372::m.45372	0	926	XP_018822123.1	xylulose kinase	Juglans regia	XP_018822124.1
TRINITY_DN13825_c0_g2::TRINITY_DN13825_c0_g2_i1::g.28850::m.28850	5,82E-92	273	XP_020971753.1	NADPH-dependent aldo-keto reductase, chloroplastic isoform X2	Arachis ipaensis	XP_020971752.1
TRINITY_DN19496_c3_g4::TRINITY_DN19496_c3_g4_i2::g.118720::m.118720	1,28E-49	162	XP_018837516.1	uncharacterized protein LOC109003708	Juglans regia	XP_008367865.1
TRINITY_DN19996_c7_g1::TRINITY_DN19996_c7_g1_i2::g.127540::m.127540	0	941	XP_018814251.1	dihydrolipoyl dehydrogenase 1, mitochondrial	Juglans regia	XP_018814252.1
TRINITY_DN16132_c1_g1::TRINITY_DN16132_c1_g1_i4::g.62630::m.62630	2,36E-78	233		2121384A calmodulin		
TRINITY_DN12592_c2_g1::TRINITY_DN12592_c2_g1_i5::g.14064::m.14064	6,40E-47	164	XP_018847842.1	coatomer subunit gamma-2	Juglans regia	XP_018836922.1
TRINITY_DN15525_c0_g1::TRINITY_DN15525_c0_g1_i8::g.53299::m.53299	0	1168	XP_018839760.1	subtilisin-like protease SBT4.15	Juglans regia	OAY42882.1
TRINITY_DN19723_c2_g3::TRINITY_DN19723_c2_g3_i3::g.122857::m.122857	1,75E-165	469	XP_018857981.1	phosphomethylethanolamine N-methyltransferase isoform X2	Juglans regia	XP_018857980.1
TRINITY_DN18422_c0_g3::TRINITY_DN18422_c0_g3_i1::g.100190::m.100190	0	939	OAY60355.1	hypothetical protein MANES_01G105600	Manihot esculenta	OAY60356.1
TRINITY_DN13563_c1_g1::TRINITY_DN13563_c1_g1_i8::g.25419::m.25419	0	2294	XP_018815316.1	coatomer subunit alpha-1	Juglans regia	XP_018840319.1
TRINITY_DN18526_c1_g2::TRINITY_DN18526_c1_g2_i7::g.101942::m.101942	0	1061	XP_018829411.1	probable Xaa-Pro aminopeptidase P isoform X1	Juglans regia	XP_018829412.1
TRINITY_DN13666_c1_g1::TRINITY_DN13666_c1_g1_i1::g.26956::m.26956	0	1174	ONI31876.1	hypothetical protein PRUPE_1G336300	Prunus persica	XP_007225345.1
TRINITY_DN13901_c0_g1::TRINITY_DN13901_c0_g1_i11::g.28513::m.28513	1,45E-59	188	XP_018835853.1	thioredoxin O2, mitochondrial-like isoform X1	Juglans regia	XP_018835854.1

TRINITY_DN12879_c0_g1::TRINITY_DN12879_c0_g1_i1::g.16746::m.16746	1,33E-165	462	XP_018839634.1	S-formylglutathione hydrolase	Juglans regia	KDP26090.1
TRINITY_DN15261_c0_g1::TRINITY_DN15261_c0_g1_i6::g.49258::m.49258	0	744	XP_018840769.1	protein disulfide isomerase-like 2-3	Juglans regia	XP_018827031.1
TRINITY_DN11924_c0_g1::TRINITY_DN11924_c0_g1_i1::g.9513::m.9513	0	726	ONH93092.1	hypothetical protein PRUPE_8G212700	Prunus persica	XP_020425931.1
TRINITY_DN18749_c0_g2::TRINITY_DN18749_c0_g2_i4::g.105830::m.105830	0	554	XP_020221626.1	ferredoxin--NADP reductase, root isozyme, chloroplastic isoform X1	Cajanus cajan	XP_020221627.1
TRINITY_DN18258_c0_g1::TRINITY_DN18258_c0_g1_i1::g.97653::m.97653	9,01E-63	199	XP_008236492.1	probable mannitol dehydrogenase	Prunus mume	XP_008236513.1
TRINITY_DN17853_c1_g4::TRINITY_DN17853_c1_g4_i19::g.90697::m.90697	5,34E-151	422	XP_018815728.1	acylpyruvase FAHD1, mitochondrial-like	Juglans regia	XP_018806160.1
TRINITY_DN11160_c0_g1::TRINITY_DN11160_c0_g1_i1::g.6484::m.6484	7,56E-133	381	XP_018847735.1	xyloglucan endotransglucosylase/hydrolase protein 2-like	Juglans regia	OAY32796.1
TRINITY_DN15352_c3_g1::TRINITY_DN15352_c3_g1_i9::g.50776::m.50776	0	1063	XP_018819865.1	polyadenylate-binding protein 2-like	Juglans regia	XP_018822308.1
TRINITY_DN19260_c1_g1::TRINITY_DN19260_c1_g1_i11::g.114784::m.114784	0	729	XP_008394248.1	guanosine nucleotide diphosphate dissociation inhibitor 2	Malus domestica	XP_008243091.1
TRINITY_DN18987_c4_g3::TRINITY_DN18987_c4_g3_i1::g.110065::m.110065	2,42E-142	408	XP_018819069.1	uncharacterized protein LOC108989783, partial	Juglans regia	XP_018857833.1
TRINITY_DN12537_c1_g2::TRINITY_DN12537_c1_g2_i7::g.13611::m.13611	1,87E-55	185	XP_008225664.2	reticuline oxidase-like protein	Prunus mume	ONI11277.1
TRINITY_DN19187_c2_g2::TRINITY_DN19187_c2_g2_i1::g.113564::m.113564	2,05E-116	333	XP_018838134.1	nitrogen regulatory protein P-II homolog	Juglans regia	XP_018824177.1
TRINITY_DN12599_c0_g1::TRINITY_DN12599_c0_g1_i6::g.14058::m.14058	0	815	KDP44002.1	hypothetical protein JCGZ_05469	Jatropha curcas	XP_012064751.1
TRINITY_DN19040_c3_g4::TRINITY_DN19040_c3_g4_i1::g.110853::m.110853	0	592	XP_018819156.1	uncharacterized protein LOC108989851	Juglans regia	XP_018828611.1
TRINITY_DN14858_c0_g1::TRINITY_DN14858_c0_g1_i1::g.43399::m.43399	0	2059	XP_018819183.1	ubiquitin-activating enzyme E1 1-like	Juglans regia	XP_018828478.1
TRINITY_DN18296_c0_g1::TRINITY_DN18296_c0_g1_i5::g.98309::m.98309	1,36E-126	362	XP_018808145.1	uncharacterized protein LOC108981433 isoform X2	Juglans regia	XP_018808144.1
TRINITY_DN13876_c0_g1::TRINITY_DN13876_c0_g1_i2::g.29614::m.29614	1,37E-173	484	XP_018843199.1	glutathione S-transferase DHAR3, chloroplastic-like	Juglans regia	XP_018816866.1
TRINITY_DN11399_c0_g1::TRINITY_DN11399_c0_g1_i3::g.6893::m.6893	8,82E-179	496	XP_018818651.1	40S ribosomal protein S3a-like	Juglans regia	XP_018826766.1
TRINITY_DN16378_c0_g2::TRINITY_DN16378_c0_g2_i3::g.66649::m.66649	0	563	XP_018839537.1	probable protein phosphatase 2C 59	Juglans regia	XP_018839538.1
TRINITY_DN19790_c2_g2::TRINITY_DN19790_c2_g2_i1::g.123647::m.123647	3,23E-33	120	AAC05116.2	isoflavone reductase homolog Bet v 6.0101, partial	Betula pendula	AAG22740.1
TRINITY_DN13975_c1_g4::TRINITY_DN13975_c1_g4_i3::g.30944::m.30944	2,08E-64	203	XP_018813802.1	aldose 1-epimerase-like	Juglans regia	XP_008341553.1
TRINITY_DN13815_c1_g2::TRINITY_DN13815_c1_g2_i6::g.28882::m.28882	0	698	XP_018814476.1	UDP-glucuronic acid decarboxylase 6	Juglans regia	XP_018814477.1

TRINITY_DN19396_c1_g1::TRINITY_DN19396_c1_g1_i8::g.116313::m.116313	0	1807	XP_018830041.1	ABC transporter B family member 9 isoform X1	Juglans regia	XP_018830041.1
TRINITY_DN18341_c1_g1::TRINITY_DN18341_c1_g1_i3::g.99097::m.99097	3,51E-33	114	AAD10247.1	calmodulin, partial	Phaseolus vulgaris	2RO9
TRINITY_DN13865_c0_g1::TRINITY_DN13865_c0_g1_i3::g.29082::m.29082	0	975	XP_018848687.1	glucose-1-phosphate adenylyltransferase large subunit 1-like isoform X1	Juglans regia	XP_018821124.1
TRINITY_DN16815_c5_g2::TRINITY_DN16815_c5_g2_i1::g.73817::m.73817	0	764	AET62947.1	ATPase subunit 1 (mitochondrion)	Lotus japonicus	YP_005090487.1
TRINITY_DN14080_c2_g1::TRINITY_DN14080_c2_g1_i10::g.32162::m.32162	1,82E-154	439	ONI07528.1	hypothetical protein PRUPE_5G125900	Prunus persica	ONI07527.1
TRINITY_DN15949_c1_g2::TRINITY_DN15949_c1_g2_i8::g.59514::m.59514	0	559	XP_018838600.1	protein SGT1 homolog	Juglans regia	KDP22207.1
TRINITY_DN19409_c5_g5::TRINITY_DN19409_c5_g5_i2::g.117475::m.117475	8,38E-27	105	XP_004509666.1	uncharacterized protein LOC101514840	Cicer arietinum	KDP40819.1
TRINITY_DN19604_c2_g1::TRINITY_DN19604_c2_g1_i2::g.120755::m.120755	6,92E-103	309	KDP25211.1	hypothetical protein JCGZ_20367	Jatropha curcas	XP_012086616.1
TRINITY_DN17204_c0_g1::TRINITY_DN17204_c0_g1_i8::g.80281::m.80281	0	644	XP_018814614.1	probable mitochondrial-processing peptidase subunit beta, mitochondrial isoform X2	Juglans regia	XP_018814613.1
TRINITY_DN16901_c2_g1::TRINITY_DN16901_c2_g1_i2::g.75153::m.75153	0	1242	XP_018811791.1	probable LRR receptor-like serine/threonine-protein kinase At2g16250	Juglans regia	XP_018847822.1
TRINITY_DN16836_c1_g3::TRINITY_DN16836_c1_g3_i3::g.74224::m.74224	0	775	XP_018847838.1	cyclase-associated protein 1-like	Juglans regia	XP_018807064.1
TRINITY_DN16865_c3_g3::TRINITY_DN16865_c3_g3_i2::g.74745::m.74745	0	1078	XP_018850062.1	acyl-CoA-binding domain-containing protein 4	Juglans regia	OAY42302.1
TRINITY_DN18894_c1_g1::TRINITY_DN18894_c1_g1_i9::g.108231::m.108231	3,54E-69	212	XP_018816665.1	14-3-3-like protein A	Juglans regia	XP_018816666.1
TRINITY_DN19186_c1_g1::TRINITY_DN19186_c1_g1_i2::g.113474::m.113474	1,95E-82	260	XP_018837618.1	5-methyltetrahydropteroyltriglutamate--homocysteine methyltransferase-like	Juglans regia	XP_018837619.1
TRINITY_DN20002_c1_g1::TRINITY_DN20002_c1_g1_i9::g.127794::m.127794	0	1036	XP_018837398.1	ruBisCO large subunit-binding protein subunit beta, chloroplastic	Juglans regia	ONH98963.1
TRINITY_DN18281_c0_g1::TRINITY_DN18281_c0_g1_i4::g.98025::m.98025	0	2047	XP_018823942.1	DNA-directed RNA polymerase I subunit 2	Juglans regia	KRH20666.1
TRINITY_DN13211_c0_g2::TRINITY_DN13211_c0_g2_i3::g.21096::m.21096	0	734	ADR71240.1	60S ribosomal protein L3B	Hevea brasiliensis	XP_018848152.1
TRINITY_DN10140_c0_g1::TRINITY_DN10140_c0_g1_i2::g.4317::m.4317	0	553	XP_018814951.1	senescence-specific cysteine protease SAG39-like	Juglans regia	XP_018838527.1
TRINITY_DN14435_c4_g2::TRINITY_DN14435_c4_g2_i1::g.36484::m.36484	0	520	XP_018815503.1	peroxidase 65-like	Juglans regia	XP_018805662.1
TRINITY_DN12440_c1_g2::TRINITY_DN12440_c1_g2_i1::g.13039::m.13039	0	927	KDP26565.1	hypothetical protein JCGZ_17723	Jatropha curcas	XP_012085348.1
TRINITY_DN14413_c0_g1::TRINITY_DN14413_c0_g1_i13::g.36824::m.36824	0	674	XP_018806700.1	pyruvate dehydrogenase E1 component subunit beta-1, mitochondrial-like	Juglans regia	ONI29891.1
TRINITY_DN17675_c2_g3::TRINITY_DN17675_c2_g3_i6::g.88141::m.88141	7,59E-102	299	XP_018834430.1	ATP synthase subunit O, mitochondrial-like	Juglans regia	OAY40030.1

TRINITY_DN14025_c2_g1::TRINITY_DN14025_c2_g1_i8::g.31522::m.31522	0	967	XP_018848178.1	ubiquitin carboxyl-terminal hydrolase FAM188A-like isoform X1	Juglans regia	XP_018848179.1
TRINITY_DN11357_c0_g2::TRINITY_DN11357_c0_g2_i1::g.7096::m.7096	2,39E-76	226	ADB93072.1	profilin-1	Jatropha curcas	KDP33778.1
TRINITY_DN13606_c2_g2::TRINITY_DN13606_c2_g2_i2::g.26272::m.26272	0	946	XP_018818494.1	UDP-glucose 6-dehydrogenase 4	Juglans regia	XP_018831898.1
TRINITY_DN15004_c1_g1::TRINITY_DN15004_c1_g1_i9::g.45691::m.45691	0	1154	XP_018843066.1	pyrophosphate--fructose 6-phosphate 1-phosphotransferase subunit alpha	Juglans regia	XP_018832985.1
TRINITY_DN20046_c4_g1::TRINITY_DN20046_c4_g1_i6::g.128432::m.128432	0	2001	XP_018810025.1	2-oxoglutarate dehydrogenase, mitochondrial-like	Juglans regia	XP_018810026.1
TRINITY_DN17290_c1_g1::TRINITY_DN17290_c1_g1_i4::g.81361::m.81361	3,11E-97	285	XP_018818935.1	superoxide dismutase [Cu-Zn], chloroplastic	Juglans regia	XP_012064680.1
TRINITY_DN12342_c1_g3::TRINITY_DN12342_c1_g3_i1::g.12105::m.12105	1,36E-69	213	XP_018844610.1	mavicyanin-like	Juglans regia	OAY29562.1
TRINITY_DN12893_c0_g1::TRINITY_DN12893_c0_g1_i1::g.17069::m.17069	6,95E-48	151	XP_018860422.1	protein BOLA2	Juglans regia	ACU15761.1
TRINITY_DN16995_c1_g3::TRINITY_DN16995_c1_g3_i3::g.76630::m.76630	4,74E-102	294	XP_018850024.1	translationally-controlled tumor protein homolog	Juglans regia	AES61399.1
TRINITY_DN14421_c2_g1::TRINITY_DN14421_c2_g1_i4::g.36938::m.36938	1,61E-110	315	AGZ15424.1	ADP-ribosylation factor 1	Phaseolus vulgaris	XP_007151018.1
TRINITY_DN13126_c1_g4::TRINITY_DN13126_c1_g4_i1::g.20159::m.20159	2,40E-82	243	KYP67019.1	Ras-related protein RABH1B	Cajanus cajan	XP_018843528.1
TRINITY_DN16509_c1_g1::TRINITY_DN16509_c1_g1_i1::g.68768::m.68768	0	1110	XP_018839329.1	methylenetetrahydrofolate reductase 2-like	Juglans regia	XP_018858229.1
TRINITY_DN19751_c2_g1::TRINITY_DN19751_c2_g1_i6::g.123209::m.123209	0	767	XP_018817260.1	3-ketoacyl-CoA thiolase 2, peroxisomal	Juglans regia	XP_018809682.1
TRINITY_DN17891_c2_g1::TRINITY_DN17891_c2_g1_i4::g.91423::m.91423	9,90E-76	226	KDP33752.1	hypothetical protein JCGZ_07323	Jatropha curcas	XP_012076803.1
TRINITY_DN18954_c0_g3::TRINITY_DN18954_c0_g3_i4::g.109379::m.109379	0	934	XP_018807686.1	3-isopropylmalate dehydratase large subunit, chloroplastic-like	Juglans regia	KDP33327.1
TRINITY_DN17145_c0_g3::TRINITY_DN17145_c0_g3_i2::g.79319::m.79319	0	1744	XP_018846325.1	clathrin heavy chain 1	Juglans regia	XP_018835615.1
TRINITY_DN16061_c2_g2::TRINITY_DN16061_c2_g2_i3::g.61317::m.61317	0	519	OAY47507.1	hypothetical protein MANES_06G084900	Manihot esculenta	KDP31346.1
TRINITY_DN19588_c6_g1::TRINITY_DN19588_c6_g1_i5::g.120209::m.120209	0	1000	XP_018814240.1	citrate synthase, glyoxysomal	Juglans regia	XP_018828184.1
TRINITY_DN13159_c0_g1::TRINITY_DN13159_c0_g1_i1::g.20565::m.20565	8,27E-102	296	XP_018821777.1	peptidyl-prolyl cis-trans isomerase CYP20-1-like isoform X2	Juglans regia	XP_018821776.1
TRINITY_DN13164_c0_g4::TRINITY_DN13164_c0_g4_i1::g.20741::m.20741	0	811	XP_018830447.1	isocitrate dehydrogenase [NADP-like]	Juglans regia	XP_018809643.1
TRINITY_DN16361_c1_g1::TRINITY_DN16361_c1_g1_i5::g.66288::m.66288	0	885	XP_018811089.1	mitochondrial-processing peptidase subunit alpha-like isoform X1	Juglans regia	XP_018843285.1
TRINITY_DN15008_c0_g1::TRINITY_DN15008_c0_g1_i3::g.45737::m.45737	0	1804	OAY37891.1	hypothetical protein MANES_11G137000	Manihot esculenta	KDP44163.1

TRINITY_DN17275_c2_g1::TRINITY_DN17275_c2_g1_i6::g.81136::m.81136	5,57E-175	489	XP_018852330.1	60S ribosomal protein L5	Juglans regia	XP_018840429.1
TRINITY_DN18883_c1_g1::TRINITY_DN18883_c1_g1_i14::g.108273::m.108273	0	1363	OAY36779.1	hypothetical protein MANES_11G047600	Manihot esculenta	KDP37205.1
TRINITY_DN14831_c2_g1::TRINITY_DN14831_c2_g1_i4::g.42949::m.42949	1,52E-102	297	XP_008353433.1	vesicle-associated protein 1-2-like	Malus domestica	XP_018853856.1
TRINITY_DN17427_c0_g1::TRINITY_DN17427_c0_g1_i16::g.83642::m.83642	0	1152	XP_018852048.1	uncharacterized protein LOC109014152 isoform X1	Juglans regia	XP_018852049.1
TRINITY_DN19711_c3_g1::TRINITY_DN19711_c3_g1_i1::g.122630::m.122630	0	618	XP_018834985.1	thioredoxin reductase 1-like	Juglans regia	XP_004512292.1
TRINITY_DN19077_c0_g1::TRINITY_DN19077_c0_g1_i1::g.111277::m.111277	0	525	XP_018841469.1	L-ascorbate peroxidase 3, peroxisomal-like	Juglans regia	XP_018823838.1
TRINITY_DN13164_c0_g2::TRINITY_DN13164_c0_g2_i1::g.20739::m.20739	0	879	XP_018842395.1	isocitrate dehydrogenase [NADP]	Juglans regia	XP_012081175.1
TRINITY_DN20023_c4_g2::TRINITY_DN20023_c4_g2_i4::g.127985::m.127985	0	1175	XP_020425453.1	coatomer subunit gamma isoform X1	Prunus persica	OAY25507.1
TRINITY_DN18086_c1_g2::TRINITY_DN18086_c1_g2_i3::g.94830::m.94830	1,24E-38	131	XP_018825823.1	lipid transfer-like protein VAS isoform X1	Juglans regia	XP_018825824.1
TRINITY_DN13268_c1_g1::TRINITY_DN13268_c1_g1_i7::g.21886::m.21886	0	815	XP_018823304.1	argininosuccinate synthase, chloroplastic	Juglans regia	XP_018825130.1
TRINITY_DN12877_c0_g1::TRINITY_DN12877_c0_g1_i2::g.16745::m.16745	1,44E-100	296	OAY27067.1	hypothetical protein MANES_16G097000	Manihot esculenta	XP_018832824.1
TRINITY_DN15082_c2_g5::TRINITY_DN15082_c2_g5_i1::g.46709::m.46709	4,70E-119	352	XP_018805570.1	aspartyl protease family protein 2	Juglans regia	ONI11778.1
TRINITY_DN17469_c0_g1::TRINITY_DN17469_c0_g1_i8::g.84329::m.84329	4,13E-144	403	CAY07621.1	unnamed protein product	Glycine max	KRH04201.1
TRINITY_DN16031_c0_g3::TRINITY_DN16031_c0_g3_i1::g.60905::m.60905	0	1123	XP_018813002.1	actin-interacting protein 1-2-like	Juglans regia	KDP41126.1
TRINITY_DN13415_c1_g3::TRINITY_DN13415_c1_g3_i4::g.23607::m.23607	0	1951	XP_018809529.1	phosphoenolpyruvate carboxylase 4-like isoform X1	Juglans regia	XP_018853146.1
TRINITY_DN13872_c1_g1::TRINITY_DN13872_c1_g1_i2::g.29678::m.29678	1,75E-100	288	XP_018822739.1	14 kDa zinc-binding protein	Juglans regia	XP_012088435.1
TRINITY_DN14508_c8_g1::TRINITY_DN14508_c8_g1_i4::g.38373::m.38373	4,59E-92	268	XP_018830082.1	desiccation protectant protein Lea14 homolog	Juglans regia	XP_018847006.1
TRINITY_DN15591_c0_g2::TRINITY_DN15591_c0_g2_i2::g.54135::m.54135	6,42E-46	172	XP_018830686.1	low-temperature-induced 65 kDa protein-like isoform X2	Juglans regia	OAY48291.1
TRINITY_DN19628_c3_g1::TRINITY_DN19628_c3_g1_i3::g.121141::m.121141	7,44E-135	385	XP_014495844.1	glutamine synthetase nodule isozyme isoform X2	Vigna radiata var. radiata	XP_018823640.1
TRINITY_DN19415_c0_g3::TRINITY_DN19415_c0_g3_i1::g.117477::m.117477	4,05E-87	261	AFK40521.1	unknown	Lotus japonicus	KDP28348.1
TRINITY_DN19617_c3_g3::TRINITY_DN19617_c3_g3_i8::g.121273::m.121273	4,53E-99	292	XP_018844827.1	adenosine kinase 2-like	Juglans regia	XP_007206468.2
TRINITY_DN15317_c1_g1::TRINITY_DN15317_c1_g1_i5::g.50064::m.50064	7,26E-113	321	XP_016193057.1	eukaryotic translation initiation factor 5A-2	Arachis ipaensis	XP_015943065.1

TRINITY_DN18894_c1_g1::TRINITY_DN18894_c1_g1_i5::g.108225::m.108225	2,73E-112	323	KDP32938.1	hypothetical protein JCGZ_12969	Jatropha curcas	XP_012077948.1
TRINITY_DN17857_c0_g1::TRINITY_DN17857_c0_g1_i1::g.90819::m.90819	0	1026	XP_018816364.1	dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 2-like	Juglans regia	XP_018827273.1
TRINITY_DN19979_c5_g4::TRINITY_DN19979_c5_g4_i2::g.127014::m.127014	1,22E-99	295	XP_018815924.1	probable aldo-keto reductase 1	Juglans regia	XP_018811967.1
TRINITY_DN18581_c2_g1::TRINITY_DN18581_c2_g1_i1::g.102861::m.102861	2,28E-103	311	XP_018818966.1	serine carboxypeptidase-like	Juglans regia	XP_019447818.1
TRINITY_DN19014_c2_g2::TRINITY_DN19014_c2_g2_i4::g.110567::m.110567	0	1678	XP_018849376.1	phosphoenolpyruvate carboxylase, housekeeping isozyme	Juglans regia	XP_018822521.1
TRINITY_DN19846_c6_g2::TRINITY_DN19846_c6_g2_i1::g.124494::m.124494	3,34E-108	327	KEH35638.1	aspartic proteinase nepenthesin	Medicago truncatula	XP_013461603.1
TRINITY_DN12374_c0_g1::TRINITY_DN12374_c0_g1_i5::g.12261::m.12261	3,76E-105	303	XP_008366039.1	60S ribosomal protein L11-1	Malus domestica	XP_009352738.1
TRINITY_DN14238_c0_g1::TRINITY_DN14238_c0_g1_i3::g.34351::m.34351	2,73E-129	367	XP_018813322.1	photosynthetic NDH subunit of lumenal location 5, chloroplastic-like	Juglans regia	XP_018811825.1
TRINITY_DN17147_c0_g1::TRINITY_DN17147_c0_g1_i4::g.79344::m.79344	3,07E-97	288	XP_018839732.1	cinnamoyl-CoA reductase 1-like	Juglans regia	ACK76693.1
TRINITY_DN12441_c0_g1::TRINITY_DN12441_c0_g1_i1::g.12899::m.12899	0	858	XP_018805995.1	uncharacterized protein LOC108979724	Juglans regia	XP_008372757.1
TRINITY_DN12614_c0_g1::TRINITY_DN12614_c0_g1_i2::g.14256::m.14256	0	985	XP_018836262.1	pyrophosphate--fructose 6-phosphate 1-phosphotransferase subunit beta-like	Juglans regia	XP_018829538.1
TRINITY_DN11552_c0_g1::TRINITY_DN11552_c0_g1_i1::g.7817::m.7817	0	1148	XP_018822704.1	alpha-L-arabinofuranosidase 1	Juglans regia	XP_018822706.1
TRINITY_DN15353_c0_g3::TRINITY_DN15353_c0_g3_i2::g.50015::m.50015	0	1185	XP_018823485.1	eukaryotic translation initiation factor-like isoform X2	Juglans regia	XP_018823484.1
TRINITY_DN17847_c0_g1::TRINITY_DN17847_c0_g1_i7::g.90759::m.90759	0	731	AFJ04513.1	actin7a, partial	Vernicia fordii	ADH82414.1
TRINITY_DN17899_c1_g1::TRINITY_DN17899_c1_g1_i20::g.90008::m.90008	0	932	KDP30431.1	hypothetical protein JCGZ_16670	Jatropha curcas	XP_012081034.1
TRINITY_DN11696_c0_g1::TRINITY_DN11696_c0_g1_i4::g.8428::m.8428	0	521	OAY43782.1	hypothetical protein MANES_08G097400	Manihot esculenta	OAY43781.1
TRINITY_DN13436_c3_g1::TRINITY_DN13436_c3_g1_i7::g.23925::m.23925	0	713	XP_018848751.1	acetyl-CoA acetyltransferase, cytosolic 1 isoform X2	Juglans regia	XP_018848747.1
TRINITY_DN19395_c0_g1::TRINITY_DN19395_c0_g1_i9::g.117248::m.117248	9,54E-79	233	1584322	2122374C allergen Bet v 1-Sc3	Betula pendula	CAA54696.1
TRINITY_DN17244_c0_g1::TRINITY_DN17244_c0_g1_i3::g.79946::m.79946	0	711	XP_018839811.1	glucan endo-1,3-beta-glucosidase 8	Juglans regia	XP_004502874.1
TRINITY_DN11876_c0_g1::TRINITY_DN11876_c0_g1_i1::g.9282::m.9282	2,88E-63	196	XP_018822851.1	polyadenylate-binding protein-interacting protein 6-like	Juglans regia	XP_018822852.1
TRINITY_DN17448_c2_g2::TRINITY_DN17448_c2_g2_i8::g.83900::m.83900	2,95E-91	296	XP_018857281.1	villin-3-like isoform X1	Juglans regia	XP_018857282.1
TRINITY_DN13409_c1_g1::TRINITY_DN13409_c1_g1_i8::g.23419::m.23419	0	615	XP_018840356.1	glyceraldehyde-3-phosphate dehydrogenase GAPCP2, chloroplastic-like isoform X3	Juglans regia	XP_018840355.1

TRINITY_DN13221_c2_g1::TRINITY_DN13221_c2_g1_i1::g.21206::m.21206	1,12E-171	479	XP_018845359.1	mitochondrial outer membrane protein porin 2-like	Juglans regia	XP_018849544.1
TRINITY_DN13244_c2_g1::TRINITY_DN13244_c2_g1_i6::g.21528::m.21528	2,42E-110	314	ADV04063.1	protein binding/ubiquitin-protein ligase 2	Hevea brasiliensis	AGQ57016.1
TRINITY_DN18545_c0_g2::TRINITY_DN18545_c0_g2_i6::g.102386::m.102386	0	1231	XP_018826449.1	succinate dehydrogenase [ubiquinone] flavoprotein subunit 1, mitochondrial	Juglans regia	OAY57384.1
TRINITY_DN11123_c0_g1::TRINITY_DN11123_c0_g1_i4::g.6381::m.6381	0	615	XP_018846192.1	aminoacyl tRNA synthase complex-interacting multifunctional protein 1 isoform X1	Juglans regia	XP_018846193.1
TRINITY_DN17109_c1_g4::TRINITY_DN17109_c1_g4_i1::g.78802::m.78802	1,75E-97	281	XP_008224314.1	40S ribosomal protein S18	Prunus mume	XP_008390888.1
TRINITY_DN14091_c1_g2::TRINITY_DN14091_c1_g2_i1::g.32197::m.32197	0	1207	XP_018815161.1	peroxisomal fatty acid beta-oxidation multifunctional protein AIM1	Juglans regia	ONH98171.1
TRINITY_DN12452_c0_g1::TRINITY_DN12452_c0_g1_i1::g.12978::m.12978	0	553	XP_018823000.1	formate dehydrogenase, mitochondrial	Juglans regia	OAY25819.1
TRINITY_DN18521_c6_g6::TRINITY_DN18521_c6_g6_i1::g.101903::m.101903	3,03E-91	271	XP_018831704.1	peroxidase 65-like isoform X2	Juglans regia	XP_018831703.1
TRINITY_DN19436_c2_g1::TRINITY_DN19436_c2_g1_i4::g.118041::m.118041	0	792	XP_018807473.1	uncharacterized protein LOC108980890	Juglans regia	OAY48561.1
TRINITY_DN17420_c0_g1::TRINITY_DN17420_c0_g1_i7::g.83574::m.83574	0	596	XP_018807997.1	glyceraldehyde-3-phosphate dehydrogenase, cytosolic-like	Juglans regia	ONI30151.1
TRINITY_DN18973_c0_g1::TRINITY_DN18973_c0_g1_i1::g.109653::m.109653	3,54E-121	347	XP_009371092.1	40S ribosomal protein S8-like	Pyrus x bretschneideri	XP_009373606.1
TRINITY_DN11465_c0_g1::TRINITY_DN11465_c0_g1_i2::g.7454::m.7454	0	846	XP_018829248.1	monodehydroascorbate reductase 5, mitochondrial	Juglans regia	XP_012086827.1
TRINITY_DN16317_c2_g1::TRINITY_DN16317_c2_g1_i4::g.65631::m.65631	0	760	XP_018833171.1	UDP-D-apiose/UDP-D-xylose synthase 2	Juglans regia	XP_008385469.1
TRINITY_DN16236_c1_g2::TRINITY_DN16236_c1_g2_i1::g.64353::m.64353	2,63E-76	238	XP_018815580.1	uncharacterized protein LOC108987164	Juglans regia	KOM45155.1
TRINITY_DN12721_c0_g3::TRINITY_DN12721_c0_g3_i6::g.15362::m.15362	5,64E-63	191	OAY21768.1	hypothetical protein MANES_S058900	Manihot esculenta	KDP37139.1
TRINITY_DN13179_c1_g3::TRINITY_DN13179_c1_g3_i2::g.20801::m.20801	2,84E-48	166	XP_018816425.1	L-ascorbate oxidase homolog	Juglans regia	ONH98929.1
TRINITY_DN13823_c0_g2::TRINITY_DN13823_c0_g2_i2::g.29073::m.29073	5,93E-94	291	XP_018818477.1	putative G3BP-like protein	Juglans regia	OIW10252.1
TRINITY_DN18057_c0_g3::TRINITY_DN18057_c0_g3_i1::g.94357::m.94357	0	1058	XP_018810822.1	T-complex protein 1 subunit theta	Juglans regia	XP_015946936.1
TRINITY_DN12273_c2_g3::TRINITY_DN12273_c2_g3_i1::g.11683::m.11683	6,32E-63	196	XP_008221499.1	14-3-3-like protein GF14 iota	Prunus mume	ONI30977.1
TRINITY_DN14391_c2_g2::TRINITY_DN14391_c2_g2_i2::g.36282::m.36282	1,77E-50	166	XP_018818750.1	GDSL esterase/lipase At3g48460-like	Juglans regia	OAY32374.1
TRINITY_DN18947_c6_g2::TRINITY_DN18947_c6_g2_i2::g.109306::m.109306	1,54E-50	167	XP_018830491.1	senescence-specific cysteine protease SAG39-like	Juglans regia	XP_018830467.1
TRINITY_DN18272_c2_g1::TRINITY_DN18272_c2_g1_i1::g.97904::m.97904	0	1595	XP_018836595.1	chaperone protein ClpC, chloroplastic	Juglans regia	XP_018832706.1

TRINITY_DN17506_c1_g1::TRINITY_DN17506_c1_g1_i6::g.84994::m.84994	0	1135	XP_018844383.1	probable methyltransferase PMT27	Juglans regia	XP_018844383.1
TRINITY_DN17662_c4_g1::TRINITY_DN17662_c4_g1_i8::g.87880::m.87880	0	681	XP_018809442.1	glucuronokinase 1-like	Juglans regia	XP_018846472.1
TRINITY_DN12028_c1_g1::TRINITY_DN12028_c1_g1_i1::g.9901::m.9901	1,61E-108	327	XP_018808170.1	reticuline oxidase-like protein isoform X3	Juglans regia	XP_018808169.1
TRINITY_DN18870_c1_g1::TRINITY_DN18870_c1_g1_i1::g.107725::m.107725	2,90E-172	484	XP_018818800.1	probable 6-phosphogluconolactonase 4, chloroplastic	Juglans regia	KDP37759.1
TRINITY_DN17060_c1_g1::TRINITY_DN17060_c1_g1_i4::g.77740::m.77740	0	1293	XP_018827628.1	probable methyltransferase PMT26	Juglans regia	XP_018827629.1
TRINITY_DN14188_c2_g2::TRINITY_DN14188_c2_g2_i3::g.32373::m.32373	0	610	XP_018860423.1	guanine nucleotide-binding protein subunit beta-like protein isoform X1	Juglans regia	XP_018860424.1
TRINITY_DN18239_c4_g4::TRINITY_DN18239_c4_g4_i1::g.97381::m.97381	2,17E-133	379	XP_008227948.1	60S ribosomal protein L7-2	Prunus mume	ONI14974.1
TRINITY_DN19251_c1_g2::TRINITY_DN19251_c1_g2_i24::g.114984::m.114984	0	800	ONI09316.1	hypothetical protein PRUPE_5G231400	Prunus persica	XP_007210883.1
TRINITY_DN18181_c1_g1::TRINITY_DN18181_c1_g1_i2::g.96439::m.96439	2,09E-175	494	XP_018845549.1	uncharacterized protein LOC109009507 isoform X2	Juglans regia	XP_018845548.1
TRINITY_DN15085_c0_g2::TRINITY_DN15085_c0_g2_i3::g.46604::m.46604	3,83E-42	147	OIW09879.1	hypothetical protein TanjilG_24534	Lupinus angustifolius	XP_018852509.1
TRINITY_DN14405_c4_g1::TRINITY_DN14405_c4_g1_i11::g.36585::m.36585	0	1288	XP_018825075.1	peroxisomal acyl-coenzyme A oxidase 1	Juglans regia	XP_018819219.1
TRINITY_DN20037_c6_g1::TRINITY_DN20037_c6_g1_i4::g.128163::m.128163	1,23E-99	292	XP_018830075.1	cyclic phosphodiesterase-like	Juglans regia	XP_009360792.1
TRINITY_DN16369_c2_g2::TRINITY_DN16369_c2_g2_i2::g.66506::m.66506	1,96E-60	190	AKI29078.1	iron-binding protein	Pyrus betulifolia	AFK43431.1
TRINITY_DN19409_c5_g1::TRINITY_DN19409_c5_g1_i1::g.117472::m.117472	1,65E-30	116	KDP43847.1	hypothetical protein JCGZ_20857	Jatropha curcas	XP_012065174.1
TRINITY_DN15357_c0_g1::TRINITY_DN15357_c0_g1_i2::g.50651::m.50651	1,68E-117	335	XP_018819121.1	ATP synthase subunit delta', mitochondrial-like	Juglans regia	XP_018854921.1
TRINITY_DN17150_c2_g1::TRINITY_DN17150_c2_g1_i1::g.79329::m.79329	9,46E-172	477	XP_018824212.1	proteasome subunit alpha type-4	Juglans regia	XP_008371922.1
TRINITY_DN16201_c0_g1::TRINITY_DN16201_c0_g1_i1::g.62689::m.62689	2,76E-126	358	XP_018809376.1	60S ribosomal protein L9-like	Juglans regia	XP_018809377.1
TRINITY_DN14972_c1_g2::TRINITY_DN14972_c1_g2_i4::g.44982::m.44982	1,25E-146	410	KDP39130.1	hypothetical protein JCGZ_00887	Jatropha curcas	XP_012070824.1
TRINITY_DN14986_c2_g1::TRINITY_DN14986_c2_g1_i1::g.45365::m.45365	3,67E-107	308	KDP23652.1	hypothetical protein JCGZ_23485	Jatropha curcas	XP_012089246.1
TRINITY_DN15394_c0_g2::TRINITY_DN15394_c0_g2_i6::g.49878::m.49878	0	1488	XP_018835062.1	heat shock 70 kDa protein 17	Juglans regia	ONI17954.1
TRINITY_DN11523_c0_g1::TRINITY_DN11523_c0_g1_i1::g.7740::m.7740	2,85E-170	474	AES86765.1	40S ribosomal S4-like protein	Medicago truncatula	XP_003604568.1
TRINITY_DN14718_c0_g2::TRINITY_DN14718_c0_g2_i3::g.41293::m.41293	4,06E-89	260	XP_008367681.1	NADP-dependent malic enzyme-like	Malus domestica	XP_004501098.1

TRINITY_DN14157_c2_g1::TRINITY_DN14157_c2_g1_i3::g.33123::m.33123	1,91E-32	114	XP_018811692.1	60S acidic ribosomal protein P2-like	Juglans regia	XP_018848651.1
TRINITY_DN13422_c4_g1::TRINITY_DN13422_c4_g1_i9::g.23675::m.23675	2,87E-169	471	XP_018822732.1	proteasome subunit alpha type-3-like	Juglans regia	XP_018831769.1
TRINITY_DN17973_c0_g2::TRINITY_DN17973_c0_g2_i4::g.92495::m.92495	1,35E-63	198	XP_019421657.1	40S ribosomal protein S10-1-like isoform X1	Lupinus angustifolius	XP_019421658.1
TRINITY_DN14213_c1_g1::TRINITY_DN14213_c1_g1_i6::g.33993::m.33993	0	786	XP_018812595.1	ATP sulfurylase 2-like	Juglans regia	XP_018847012.1
TRINITY_DN15873_c1_g1::TRINITY_DN15873_c1_g1_i7::g.58225::m.58225						
TRINITY_DN12030_c0_g1::TRINITY_DN12030_c0_g1_i2::g.10080::m.10080	0	788	XP_018824705.1	acetylornithine deacetylase	Juglans regia	XP_009377070.1
TRINITY_DN16055_c0_g3::TRINITY_DN16055_c0_g3_i1::g.61219::m.61219	0	918	AHJ79156.1	betaine-aldehyde dehydrogenase	Juglans regia	XP_018831659.1
TRINITY_DN16644_c3_g1::TRINITY_DN16644_c3_g1_i4::g.70221::m.70221	0	747	XP_018845321.1	vicilin-like seed storage protein At2g28490 isoform X3	Juglans regia	XP_018845319.1
TRINITY_DN17145_c0_g4::TRINITY_DN17145_c0_g4_i1::g.79322::m.79322	0	1444	XP_018846325.1	clathrin heavy chain 1	Juglans regia	KRG97711.1
TRINITY_DN12499_c2_g2::TRINITY_DN12499_c2_g2_i3::g.13408::m.13408	1,69E-60	186	XP_008232650.1	60S ribosomal protein L22-3	Prunus mume	ONI22680.1
TRINITY_DN27272_c0_g1::TRINITY_DN27272_c0_g1_i1::g.129628::m.129628	2,51E-42	152	KDP36944.1	hypothetical protein JCGZ_08235	Jatropha curcas	XP_012073826.1
TRINITY_DN18903_c0_g1::TRINITY_DN18903_c0_g1_i9::g.108678::m.108678	0	694	XP_018806250.1	eIF-2-alpha kinase GCN2 isoform X2	Juglans regia	XP_018806242.1
TRINITY_DN19948_c1_g1::TRINITY_DN19948_c1_g1_i4::g.126476::m.126476	0	868	XP_018809878.1	ketol-acid reductoisomerase, chloroplastic	Juglans regia	XP_008244478.1
TRINITY_DN15893_c1_g2::TRINITY_DN15893_c1_g2_i6::g.57605::m.57605	0	704	XP_018851483.1	isocitrate dehydrogenase [NAD] catalytic subunit 5, mitochondrial isoform X1	Juglans regia	ONI03044.1
TRINITY_DN18003_c1_g3::TRINITY_DN18003_c1_g3_i3::g.93450::m.93450	6,49E-171	481	XP_018839339.1	uncharacterized protein LOC109005031	Juglans regia	KDP29539.1
TRINITY_DN17070_c2_g4::TRINITY_DN17070_c2_g4_i5::g.77858::m.77858	5,65E-176	486	XP_018837325.1	proteasome subunit alpha type-5	Juglans regia	XP_018837326.1
TRINITY_DN10166_c0_g1::TRINITY_DN10166_c0_g1_i3::g.4379::m.4379	1,38E-162	454	XP_018844949.1	20 kDa chaperonin, chloroplastic-like	Juglans regia	XP_018844947.1
TRINITY_DN19812_c4_g1::TRINITY_DN19812_c4_g1_i1::g.124051::m.124051	0	696	KDP35832.1	hypothetical protein JCGZ_10646	Jatropha curcas	XP_012074649.1
TRINITY_DN11760_c0_g1::TRINITY_DN11760_c0_g1_i1::g.8722::m.8722	0	530	XP_018846015.1	60S acidic ribosomal protein P0-like	Juglans regia	XP_018821854.1
TRINITY_DN20022_c3_g3::TRINITY_DN20022_c3_g3_i3::g.128023::m.128023						
TRINITY_DN16751_c0_g2::TRINITY_DN16751_c0_g2_i11::g.72773::m.72773	0	1071	XP_018831656.1	probable aldehyde dehydrogenase isoform X2	Juglans regia	XP_018831655.1
TRINITY_DN15089_c0_g1::TRINITY_DN15089_c0_g1_i2::g.46688::m.46688	0	1019	XP_008230393.1	T-complex protein 1 subunit zeta 1	Prunus mume	ONI18783.1

TRINITY_DN13431_c11_g1::TRINITY_DN13431_c11_g1_i1::g.23860::m.23860	0	690	XP_018849575.1	uncharacterized protein LOC109012411 isoform X1	Juglans regia	XP_018849576.1
TRINITY_DN16209_c0_g5::TRINITY_DN16209_c0_g5_i1::g.64031::m.64031	3,53E-92	266	AFK43969.1	unknown	Medicago truncatula	KEH32217.1
TRINITY_DN18640_c0_g2::TRINITY_DN18640_c0_g2_i8::g.103688::m.103688	4,39E-102	295	XP_018835350.1	nudix hydrolase 26, chloroplastic-like	Juglans regia	XP_009351382.2
TRINITY_DN11955_c0_g1::TRINITY_DN11955_c0_g1_i1::g.9671::m.9671	0	553	AGT95889.1	beta-ketoacyl-ACP reductase	Vernicia fordii	CAV22170.1
TRINITY_DN19422_c2_g1::TRINITY_DN19422_c2_g1_i9::g.117599::m.117599	0	537	OIW03371.1	hypothetical protein TanjilG_29356	Lupinus angustifolius	XP_019458539.1
TRINITY_DN19041_c0_g1::TRINITY_DN19041_c0_g1_i8::g.110918::m.110918	7,03E-133	375	XP_018827839.1	ras-related protein RABC1 isoform X1	Juglans regia	XP_018827840.1
TRINITY_DN18551_c0_g2::TRINITY_DN18551_c0_g2_i5::g.102562::m.102562	0	1349	XP_018826765.1	pyrophosphate-energized vacuolar membrane proton pump-like	Juglans regia	ALO24186.1
TRINITY_DN18727_c2_g1::TRINITY_DN18727_c2_g1_i8::g.105290::m.105290	0	517	XP_018839964.1	protein ENHANCED DISEASE RESISTANCE 2-like isoform X3	Juglans regia	XP_018839960.1
TRINITY_DN14879_c3_g4::TRINITY_DN14879_c3_g4_i1::g.43729::m.43729	2,59E-153	427	KRH29738.1	hypothetical protein GLYMA_11G135400	Glycine max	XP_003537971.1
TRINITY_DN19715_c1_g1::TRINITY_DN19715_c1_g1_i2::g.122707::m.122707	0	1852	XP_018845356.1	calcium-transporting ATPase 2, plasma membrane-type-like isoform X1	Juglans regia	XP_018845357.1
TRINITY_DN11725_c0_g2::TRINITY_DN11725_c0_g2_i1::g.8540::m.8540	1,68E-65	200	XP_018839196.1	uncharacterized protein LOC109004950	Juglans regia	ONI26983.1
TRINITY_DN16136_c0_g1::TRINITY_DN16136_c0_g1_i4::g.62642::m.62642	0	540	XP_018848571.1	dihydrolipoyllysine-residue acetyltransferase component 2 of pyruvate dehydrogenase complex, mitochondrial-like	Juglans regia	XP_018835126.1
TRINITY_DN19182_c1_g1::TRINITY_DN19182_c1_g1_i6::g.113457::m.113457	0	846	XP_018845710.1	aspartate--tRNA ligase 2, cytoplasmic	Juglans regia	KRH05378.1
TRINITY_DN16339_c2_g1::TRINITY_DN16339_c2_g1_i6::g.65997::m.65997	0	537	XP_008236827.1	ubiquitin fusion degradation protein 1 homolog	Prunus mume	XP_016650890.1
TRINITY_DN18576_c1_g1::TRINITY_DN18576_c1_g1_i10::g.101619::m.101619	0	1068	XP_018820151.1	external alternative NAD(P)H-ubiquinone oxidoreductase B2, mitochondrial-like	Juglans regia	XP_008364132.1
TRINITY_DN11411_c0_g1::TRINITY_DN11411_c0_g1_i2::g.7300::m.7300	5,36E-130	372	XP_018498100.1	60S ribosomal protein L15-1	Pyrus x bretschneideri	XP_009334550.1
TRINITY_DN14869_c3_g5::TRINITY_DN14869_c3_g5_i3::g.43830::m.43830	5,36E-70	226	OAY56312.1	hypothetical protein MANES_02G006000	Manihot esculenta	XP_004503582.1
TRINITY_DN12162_c0_g1::TRINITY_DN12162_c0_g1_i2::g.10879::m.10879	2,65E-75	225	XP_018845602.1	AIG2-like protein	Juglans regia	OAY53495.1
TRINITY_DN15457_c4_g1::TRINITY_DN15457_c4_g1_i5::g.52200::m.52200	3,05E-111	330	BAO50884.1	ATP synthase F1 subunit 1 (mitochondrion)	Hevea brasiliensis	BAO50925.1
TRINITY_DN13171_c0_g1::TRINITY_DN13171_c0_g1_i3::g.20617::m.20617	5,86E-99	284	XP_018816977.1	40S ribosomal protein S19-3	Juglans regia	XP_018814627.1
TRINITY_DN19704_c1_g1::TRINITY_DN19704_c1_g1_i9::g.122571::m.122571	0	1804	OAY27565.1	hypothetical protein MANES_16G135200	Manihot esculenta	OAY27566.1

TRINITY_DN13284_c1_g1::TRINITY_DN13284_c1_g1_i7::g.21970::m.21970	1,51E-133	378	XP_018839423.1	stem-specific protein TSJT1-like	Juglans regia	ONI26399.1
TRINITY_DN17067_c1_g1::TRINITY_DN17067_c1_g1_i1::g.77883::m.77883	0	2208	ONI11196.1	hypothetical protein PRUPE_4G091800	Prunus persica	ONI11197.1
TRINITY_DN12343_c1_g1::TRINITY_DN12343_c1_g1_i5::g.11822::m.11822	2,94E-131	370	XP_007160383.1	hypothetical protein PHAVU_002G317200g	Phaseolus vulgaris	XP_007160384.1
TRINITY_DN16029_c2_g3::TRINITY_DN16029_c2_g3_i1::g.61032::m.61032	1,13E-127	362	XP_018840507.1	peroxiredoxin-2F, mitochondrial-like	Juglans regia	XP_018846871.1
TRINITY_DN12608_c0_g1::TRINITY_DN12608_c0_g1_i2::g.14177::m.14177	3,03E-115	334	XP_018810712.1	DNA-directed RNA polymerase V subunit 7-like	Juglans regia	XP_008353300.2
TRINITY_DN18182_c1_g1::TRINITY_DN18182_c1_g1_i5::g.96464::m.96464	1,07E-166	463	XP_018844535.1	40S ribosomal protein S3-3-like	Juglans regia	XP_018827015.1
TRINITY_DN15675_c5_g2::TRINITY_DN15675_c5_g2_i2::g.55536::m.55536	0	800	XP_018859966.1	hexokinase-1-like isoform X2	Juglans regia	KDP33801.1
TRINITY_DN15276_c1_g1::TRINITY_DN15276_c1_g1_i6::g.49461::m.49461	0	601	XP_018847873.1	serine-threonine kinase receptor-associated protein-like	Juglans regia	XP_016179643.1
TRINITY_DN18360_c0_g2::TRINITY_DN18360_c0_g2_i3::g.99190::m.99190	0	623	XP_018814451.1	heat shock cognate 70 kDa protein-like	Juglans regia	XP_018814450.1
TRINITY_DN12711_c1_g1::TRINITY_DN12711_c1_g1_i2::g.15227::m.15227	1,37E-175	498	XP_014513401.1	ubiquitin receptor RAD23d-like	Vigna radiata var. radiata	XP_020987021.1
TRINITY_DN15771_c0_g2::TRINITY_DN15771_c0_g2_i3::g.56846::m.56846	0	1549	XP_018845914.1	coatomer subunit beta'-2-like isoform X1	Juglans regia	XP_018845915.1
TRINITY_DN12201_c0_g1::TRINITY_DN12201_c0_g1_i3::g.10701::m.10701	0	674	XP_018829628.1	malate dehydrogenase, glyoxysomal	Juglans regia	XP_018819958.1
TRINITY_DN13903_c0_g3::TRINITY_DN13903_c0_g3_i6::g.30258::m.30258	1,80E-151	433	XP_018805205.1	peroxidase 5-like	Juglans regia	XP_008221883.1
TRINITY_DN16875_c1_g2::TRINITY_DN16875_c1_g2_i1::g.74175::m.74175	0	1009	XP_018813723.1	polyadenylate-binding protein 2-like	Juglans regia	BAJ53195.1
TRINITY_DN12880_c1_g2::TRINITY_DN12880_c1_g2_i3::g.16816::m.16816	1,60E-115	334	XP_018816103.1	succinate dehydrogenase subunit 5, mitochondrial-like	Juglans regia	XP_018822424.1
TRINITY_DN12853_c0_g1::TRINITY_DN12853_c0_g1_i3::g.16604::m.16604	0	639	XP_018818486.1	erlin-2-B	Juglans regia	XP_018818487.1
TRINITY_DN15811_c0_g2::TRINITY_DN15811_c0_g2_i2::g.57329::m.57329	1,58E-97	285	XP_018835046.1	proteasome subunit alpha type-6 isoform X1	Juglans regia	XP_018835047.1
TRINITY_DN12588_c4_g1::TRINITY_DN12588_c4_g1_i6::g.14071::m.14071	0	511	XP_018820882.1	glyoxylate/succinic semialdehyde reductase 1 isoform X1	Juglans regia	XP_018820891.1
TRINITY_DN18157_c0_g1::TRINITY_DN18157_c0_g1_i6::g.96079::m.96079	1,19E-125	367	XP_018837049.1	cysteine proteinase RD21A-like	Juglans regia	XP_018837050.1
TRINITY_DN18306_c2_g1::TRINITY_DN18306_c2_g1_i6::g.98737::m.98737	3,06E-64	203	KDP35739.1	hypothetical protein JCGZ_10511	Jatropha curcas	XP_012074735.1
TRINITY_DN17921_c2_g1::TRINITY_DN17921_c2_g1_i7::g.92112::m.92112	0	1697	XP_018840722.1	alanine--tRNA ligase-like	Juglans regia	XP_018840731.1
TRINITY_DN15585_c1_g1::TRINITY_DN15585_c1_g1_i4::g.54306::m.54306	7,72E-127	361	XP_018821775.1	GDSL esterase/lipase CPRD49-like	Juglans regia	XP_018810087.1

TRINITY_DN12563_c5_g1::TRINITY_DN12563_c5_g1_i1::g.13894::m.13894	0	1748	XP_018843664.1	4-alpha-glucanotransferase DPE2 isoform X2	Juglans regia	XP_018843661.1
TRINITY_DN14141_c0_g1::TRINITY_DN14141_c0_g1_i5::g.32827::m.32827	1,10E-55	174	XP_018836470.1	ATP synthase subunit d, mitochondrial-like	Juglans regia	XP_008368918.1
TRINITY_DN19864_c2_g6::TRINITY_DN19864_c2_g6_i4::g.124630::m.124630	0	546	OAY23951.1	hypothetical protein MANES_18G120400	Manihot esculenta	XP_018841148.1
TRINITY_DN15673_c2_g2::TRINITY_DN15673_c2_g2_i2::g.55381::m.55381	2,89E-75	223	XP_018820939.1	60S ribosomal protein L14-1	Juglans regia	XP_018808011.1
TRINITY_DN15521_c0_g1::TRINITY_DN15521_c0_g1_i5::g.53143::m.53143	0	1035	XP_018805935.1	pyruvate kinase 1, cytosolic isoform X2	Juglans regia	XP_018805933.1
TRINITY_DN14108_c0_g1::TRINITY_DN14108_c0_g1_i6::g.32445::m.32445	0	668	OAY60978.1	hypothetical protein MANES_01G154200	Manihot esculenta	KDP43753.1
TRINITY_DN13599_c0_g2::TRINITY_DN13599_c0_g2_i3::g.24684::m.24684	1,17E-136	385	XP_018813683.1	60S ribosomal protein L10a-like	Juglans regia	OIW20670.1
TRINITY_DN12431_c0_g1::TRINITY_DN12431_c0_g1_i5::g.12785::m.12785	6,38E-79	234	XP_014496997.1	60S ribosomal protein L23A	Vigna radiata var. radiata	XP_020224350.1
TRINITY_DN15315_c0_g3::TRINITY_DN15315_c0_g3_i4::g.50023::m.50023	0	935	XP_018850554.1	alanine aminotransferase 2-like	Juglans regia	ONI15222.1
TRINITY_DN13825_c0_g1::TRINITY_DN13825_c0_g1_i1::g.28844::m.28844	5,00E-91	268	XP_018817591.1	aldo-keto reductase family 4 member C9-like	Juglans regia	XP_020221314.1
TRINITY_DN11213_c0_g1::TRINITY_DN11213_c0_g1_i2::g.6642::m.6642	4,52E-120	345	XP_018834379.1	60S ribosomal protein L6	Juglans regia	XP_009365032.1
TRINITY_DN19530_c3_g1::TRINITY_DN19530_c3_g1_i3::g.119253::m.119253	0	1332	XP_018816636.1	NADH dehydrogenase [ubiquinone] iron-sulfur protein 1, mitochondrial	Juglans regia	ONI17532.1
TRINITY_DN16101_c1_g1::TRINITY_DN16101_c1_g1_i2::g.61978::m.61978	0	1704	XP_018836225.1	plasma membrane ATPase 4	Juglans regia	XP_018845641.1
TRINITY_DN16024_c0_g2::TRINITY_DN16024_c0_g2_i5::g.60694::m.60694	0	745	XP_018844405.1	pyruvate dehydrogenase E1 component subunit alpha-1, mitochondrial-like	Juglans regia	XP_018819117.1
TRINITY_DN11097_c0_g1::TRINITY_DN11097_c0_g1_i1::g.6303::m.6303	1,32E-155	442	XP_018847246.1	desiccation-related protein PCC13-62-like	Juglans regia	XP_018855451.1
TRINITY_DN18581_c2_g2::TRINITY_DN18581_c2_g2_i8::g.102871::m.102871	5,22E-61	198	KRH26523.1	hypothetical protein GLYMA_12G177900	Glycine max	XP_003540200.1
TRINITY_DN15963_c2_g1::TRINITY_DN15963_c2_g1_i4::g.59609::m.59609	0	665	XP_018844184.1	thiol protease aleurain-like	Juglans regia	OAY27043.1
TRINITY_DN18878_c2_g2::TRINITY_DN18878_c2_g2_i9::g.108021::m.108021	0	713	XP_018821861.1	cytochrome P450 90A1 isoform X1	Juglans regia	XP_018810085.1
TRINITY_DN12332_c0_g1::TRINITY_DN12332_c0_g1_i2::g.11982::m.11982	1,01E-119	348	XP_018809881.1	protein BOBBER 1-like	Juglans regia	XP_014503614.1
TRINITY_DN18378_c3_g4::TRINITY_DN18378_c3_g4_i1::g.99575::m.99575	4,26E-118	338	XP_018842921.1	membrane steroid-binding protein 1-like	Juglans regia	XP_018830725.1
TRINITY_DN11637_c0_g1::TRINITY_DN11637_c0_g1_i3::g.8078::m.8078	0	664	XP_018835846.1	polygalacturonase QRT3	Juglans regia	XP_018835847.1
TRINITY_DN16699_c3_g1::TRINITY_DN16699_c3_g1_i15::g.70256::m.70256	0	943	XP_018834253.1	AP-4 complex subunit epsilon-like	Juglans regia	XP_018810168.1

TRINITY_DN14704_c0_g1::TRINITY_DN14704_c0_g1_i5::g.40889::m.40889	0	624	XP_018839948.1	heparanase-like protein 3 isoform X3	Juglans regia	XP_018839937.1
TRINITY_DN15232_c2_g1::TRINITY_DN15232_c2_g1_i5::g.49050::m.49050	7,87E-98	281	XP_018848065.1	40S ribosomal protein S13	Juglans regia	XP_018815859.1
TRINITY_DN16447_c0_g1::TRINITY_DN16447_c0_g1_i6::g.67050::m.67050	1,43E-132	378	XP_018840931.1	60S ribosomal protein L7-2-like	Juglans regia	XP_018840932.1
TRINITY_DN18433_c1_g3::TRINITY_DN18433_c1_g3_i2::g.100387::m.100387	3,93E-164	462	KDP44884.1	hypothetical protein JCGZ_01384	Jatropha curcas	XP_012088585.1
TRINITY_DN15610_c2_g1::TRINITY_DN15610_c2_g1_i5::g.54395::m.54395	7,96E-163	457	OAY27542.1	hypothetical protein MANES_16G133500	Manihot esculenta	XP_008379609.1
TRINITY_DN17553_c1_g1::TRINITY_DN17553_c1_g1_i2::g.85833::m.85833	4,98E-128	362	XP_018806533.1	probable glutathione peroxidase 2	Juglans regia	XP_008380677.1
TRINITY_DN16227_c0_g1::TRINITY_DN16227_c0_g1_i8::g.64252::m.64252	4,03E-109	317	XP_018856017.1	ribosome-recycling factor, chloroplastic isoform X1	Juglans regia	OAY49710.1
TRINITY_DN18179_c2_g1::TRINITY_DN18179_c2_g1_i5::g.96397::m.96397	0	548	XP_018824867.1	ras GTPase-activating protein-binding protein 2 isoform X1	Juglans regia	XP_018824868.1
TRINITY_DN13194_c3_g1::TRINITY_DN13194_c3_g1_i1::g.20967::m.20967	1,17E-83	247	XP_018832580.1	uncharacterized protein LOC109000202 isoform X1	Juglans regia	XP_018832581.1
TRINITY_DN15924_c1_g1::TRINITY_DN15924_c1_g1_i2::g.59050::m.59050	0	760	XP_018819893.1	low-temperature-induced cysteine proteinase-like	Juglans regia	XP_018852257.1
TRINITY_DN13535_c5_g1::TRINITY_DN13535_c5_g1_i1::g.25172::m.25172	4,11E-22	95,1	XP_018838898.1	late embryogenesis abundant protein D-29 isoform X1	Juglans regia	ONI27795.1
TRINITY_DN12971_c4_g2::TRINITY_DN12971_c4_g2_i4::g.17979::m.17979	1,19E-158	444	XP_018829633.1	proteasome subunit alpha type-7	Juglans regia	XP_008337994.1
TRINITY_DN17406_c4_g4::TRINITY_DN17406_c4_g4_i2::g.83246::m.83246	0	1231	XP_018849604.1	programmed cell death protein 4-like	Juglans regia	XP_018807488.1
TRINITY_DN14711_c0_g2::TRINITY_DN14711_c0_g2_i2::g.40961::m.40961	0	717	XP_018842745.1	stomatin-like protein 2, mitochondrial	Juglans regia	XP_018828153.1
TRINITY_DN12314_c0_g1::TRINITY_DN12314_c0_g1_i2::g.11797::m.11797	0	608	XP_018855479.1	probable L-ascorbate peroxidase 6, chloroplastic isoform X2	Juglans regia	XP_018855478.1
TRINITY_DN19972_c2_g1::TRINITY_DN19972_c2_g1_i3::g.126916::m.126916	6,81E-64	197	XP_018818881.1	L-ascorbate peroxidase, cytosolic	Juglans regia	XP_018818882.1
TRINITY_DN12468_c0_g1::TRINITY_DN12468_c0_g1_i1::g.13082::m.13082	0	743	XP_018849591.1	dolichyl-diphosphooligosaccharide--protein glycosyltransferase 48 kDa subunit-like isoform X2	Juglans regia	XP_004507412.1
TRINITY_DN16038_c1_g1::TRINITY_DN16038_c1_g1_i5::g.61002::m.61002	0	942	XP_018842622.1	pyruvate kinase isozyme G, chloroplastic isoform X2	Juglans regia	XP_018842621.1
TRINITY_DN14600_c0_g1::TRINITY_DN14600_c0_g1_i7::g.38565::m.38565	0	1092	XP_018837266.1	T-complex protein 1 subunit gamma isoform X1	Juglans regia	GAU28482.1
TRINITY_DN12693_c0_g1::TRINITY_DN12693_c0_g1_i3::g.14940::m.14940	1,77E-58	187	KDP36740.1	hypothetical protein JCGZ_08031	Jatropha curcas	XP_012073565.1
TRINITY_DN12016_c0_g1::TRINITY_DN12016_c0_g1_i3::g.10082::m.10082	1,73E-129	364	XP_018850586.1	60S ribosomal protein L18a	Juglans regia	XP_018819718.1
TRINITY_DN12640_c0_g1::TRINITY_DN12640_c0_g1_i4::g.14587::m.14587	0	587	XP_018827261.1	TOM1-like protein 2	Juglans regia	XP_008235674.1

TRINITY_DN18427_c1_g2::TRINITY_DN18427_c1_g2_i5::g.100438::m.100438	1,30E-170	473	XP_018837327.1	proteasome subunit alpha type-2-B	Juglans regia	KRH13728.1
TRINITY_DN19518_c0_g1::TRINITY_DN19518_c0_g1_i2::g.119121::m.119121	0	609	XP_018824429.1	probable aldo-keto reductase 2	Juglans regia	KYP64861.1
TRINITY_DN17623_c2_g1::TRINITY_DN17623_c2_g1_i4::g.87423::m.87423	1,20E-46	152	KDP24516.1	hypothetical protein JCGZ_25080	Jatropha curcas	XP_012087959.1
TRINITY_DN14810_c0_g2::TRINITY_DN14810_c0_g2_i2::g.42832::m.42832	7,61E-112	318	XP_016171772.1	60S ribosomal protein L12	Arachis ipaensis	XP_015935785.1
TRINITY_DN12250_c0_g1::TRINITY_DN12250_c0_g1_i2::g.11365::m.11365	0	840	XP_018845963.1	elongation factor Tu, mitochondrial-like	Juglans regia	XP_018847444.1
TRINITY_DN16420_c0_g1::TRINITY_DN16420_c0_g1_i2::g.67378::m.67378	0	763	XP_018850665.1	elongation factor 1-gamma-like	Juglans regia	ONI35669.1
TRINITY_DN16668_c3_g1::TRINITY_DN16668_c3_g1_i1::g.71264::m.71264	0	1995	XP_018845797.1	glycine dehydrogenase (decarboxylating), mitochondrial	Juglans regia	XP_009361869.1
TRINITY_DN18663_c1_g1::TRINITY_DN18663_c1_g1_i1::g.104197::m.104197	2,27E-34	123	XP_018841685.1	putative invertase inhibitor	Juglans regia	XP_018806754.1
TRINITY_DN16719_c1_g1::TRINITY_DN16719_c1_g1_i3::g.72216::m.72216	0	1028	XP_018840650.1	transmembrane 9 superfamily member 11 isoform X1	Juglans regia	XP_018840651.1
TRINITY_DN17040_c1_g7::TRINITY_DN17040_c1_g7_i1::g.77416::m.77416	1,77E-87	257	XP_018849369.1	nascent polypeptide-associated complex subunit alpha-like protein 1	Juglans regia	OAY36283.1
TRINITY_DN14578_c1_g1::TRINITY_DN14578_c1_g1_i1::g.39115::m.39115	0	754	XP_008223483.1	S-adenosylmethionine synthase 5	Prunus mume	XP_012084185.1
TRINITY_DN14089_c0_g1::TRINITY_DN14089_c0_g1_i6::g.32232::m.32232	0	687	XP_018825271.1	enoyl-[acyl-carrier-protein reductase [NADH], chloroplastic-like	Juglans regia	XP_018834639.1
TRINITY_DN14378_c0_g2::TRINITY_DN14378_c0_g2_i6::g.36119::m.36119	8,15E-156	434	OAY58932.1	hypothetical protein MANES_02G217700	Manihot esculenta	AFK38655.1
TRINITY_DN19372_c1_g1::TRINITY_DN19372_c1_g1_i2::g.116684::m.116684	0	870	XP_018852464.1	oxalate--CoA ligase-like	Juglans regia	KDP25453.1
TRINITY_DN13787_c3_g4::TRINITY_DN13787_c3_g4_i3::g.28262::m.28262	0	526	XP_018812299.1	mitochondrial outer membrane protein porin of 36 kDa	Juglans regia	XP_008339931.1
TRINITY_DN18760_c9_g1::TRINITY_DN18760_c9_g1_i2::g.106072::m.106072	0	554	XP_018841471.1	beta-galactosidase 13-like	Juglans regia	XP_018823734.1
TRINITY_DN11053_c0_g1::TRINITY_DN11053_c0_g1_i3::g.6092::m.6092	1,07E-75	224	XP_018821837.1	60S ribosomal protein L35a-1	Juglans regia	XP_018821838.1
TRINITY_DN13145_c0_g1::TRINITY_DN13145_c0_g1_i9::g.20440::m.20440	0	819	OAY44035.1	hypothetical protein MANES_08G117200	Manihot esculenta	XP_018841804.1
TRINITY_DN16756_c2_g7::TRINITY_DN16756_c2_g7_i3::g.72811::m.72811	0	961	XP_018845845.1	pyruvate kinase, cytosolic isozyme	Juglans regia	ONH98946.1
TRINITY_DN12713_c0_g2::TRINITY_DN12713_c0_g2_i2::g.15182::m.15182	0	675	KYP69807.1	Alpha-1,4-glucan-protein synthase [UDP-forming 2]	Cajanus cajan	XP_020212056.1
TRINITY_DN13140_c0_g1::TRINITY_DN13140_c0_g1_i10::g.20388::m.20388	0	538	XP_018829443.1	gamma carbonic anhydrase 1, mitochondrial-like isoform X1	Juglans regia	XP_018829444.1
TRINITY_DN16168_c0_g1::TRINITY_DN16168_c0_g1_i6::g.63149::m.63149	0	1530	XP_018834279.1	26S proteasome non-ATPase regulatory subunit 2 homolog A-like	Juglans regia	XP_018843471.1

TRINITY_DN18151_c0_g1::TRINITY_DN18151_c0_g1_i1::g.95922::m.95922	2,40E-167	471	XP_018839906.1	40S ribosomal protein SA-like isoform X2	Juglans regia	XP_018839250.1
TRINITY_DN13594_c1_g2::TRINITY_DN13594_c1_g2_i6::g.26004::m.26004	8,35E-66	199	XP_018837755.1	glutaredoxin-like	Juglans regia	XP_018821252.1
TRINITY_DN16842_c1_g6::TRINITY_DN16842_c1_g6_i1::g.74458::m.74458	2,03E-92	271	XP_018842585.1	ferredoxin, root R-B2-like	Juglans regia	XP_007142856.1
TRINITY_DN16487_c1_g1::TRINITY_DN16487_c1_g1_i9::g.68393::m.68393	1,87E-112	333	XP_018856959.1	coiled-coil domain-containing protein 18-like	Juglans regia	XP_018845595.1
TRINITY_DN17142_c0_g1::TRINITY_DN17142_c0_g1_i3::g.79276::m.79276	0	593	XP_018851182.1	putative deoxyribonuclease TATDN1	Juglans regia	XP_008350215.1
TRINITY_DN18242_c1_g1::TRINITY_DN18242_c1_g1_i1::g.97405::m.97405	2,08E-154	448	XP_018847175.1	heterogeneous nuclear ribonucleoprotein 1-like	Juglans regia	XP_018847175.1
TRINITY_DN18764_c1_g1::TRINITY_DN18764_c1_g1_i6::g.106059::m.106059	0	594	XP_018819193.1	cinnamoyl-CoA reductase 1	Juglans regia	ONH99805.1
TRINITY_DN15799_c0_g1::TRINITY_DN15799_c0_g1_i1::g.55952::m.55952	4,22E-147	418	XP_018842015.1	endochitinase-like	Juglans regia	XP_018854709.1
TRINITY_DN12324_c0_g2::TRINITY_DN12324_c0_g2_i2::g.11908::m.11908	2,58E-140	396	XP_018819328.1	V-type proton ATPase subunit E2 isoform X2	Juglans regia	XP_018819326.1
TRINITY_DN14323_c0_g1::TRINITY_DN14323_c0_g1_i2::g.35566::m.35566	0	1292	XP_018818540.1	heat shock protein 90-5, chloroplastic	Juglans regia	ONI31143.1
TRINITY_DN13653_c3_g1::TRINITY_DN13653_c3_g1_i1::g.26703::m.26703	0	1288	XP_018840476.1	long chain acyl-CoA synthetase 6, peroxisomal-like	Juglans regia	XP_018846842.1
TRINITY_DN20011_c2_g2::TRINITY_DN20011_c2_g2_i1::g.127827::m.127827	0	951	KDP46998.1	hypothetical protein JCGZ_02434	Jatropha curcas	XP_012080304.1
TRINITY_DN14539_c1_g2::TRINITY_DN14539_c1_g2_i5::g.38538::m.38538	0	784	XP_008379344.1	tubulin alpha-2 chain	Malus domestica	XP_008230754.1
TRINITY_DN15165_c0_g1::TRINITY_DN15165_c0_g1_i4::g.47616::m.47616	6,28E-77	235	XP_018824934.1	late embryogenesis abundant protein D-34-like	Juglans regia	XP_018824935.1
TRINITY_DN12436_c4_g2::TRINITY_DN12436_c4_g2_i4::g.12996::m.12996	0	1014	XP_018820447.1	T-complex protein 1 subunit epsilon	Juglans regia	OAY32463.1
TRINITY_DN14508_c8_g1::TRINITY_DN14508_c8_g1_i8::g.38378::m.38378	1,49E-88	258	XP_018830082.1	desiccation protectant protein Lea14 homolog	Juglans regia	XP_018847006.1
TRINITY_DN14731_c0_g4::TRINITY_DN14731_c0_g4_i2::g.41282::m.41282	1,35E-92	273	XP_018845049.1	proteasome subunit alpha type-1-A-like	Juglans regia	XP_018821628.1
TRINITY_DN15108_c2_g1::TRINITY_DN15108_c2_g1_i5::g.47064::m.47064	0	1114	XP_018833363.1	acetyl-coenzyme A carboxylase carboxyl transferase subunit alpha, chloroplastic-like	Juglans regia	XP_018833364.1
TRINITY_DN15133_c0_g1::TRINITY_DN15133_c0_g1_i1::g.47252::m.47252	0	726	XP_018826923.1	proline iminopeptidase	Juglans regia	KRH10668.1
TRINITY_DN13082_c0_g1::TRINITY_DN13082_c0_g1_i2::g.19429::m.19429	1,79E-154	437	XP_018808845.1	GEM-like protein 1	Juglans regia	KOM41786.1
TRINITY_DN19812_c4_g2::TRINITY_DN19812_c4_g2_i2::g.124055::m.124055	7,35E-76	236	AAK21920.1	AF338252_1 BiP-isoform D, partial	Glycine max	ONI07528.1
TRINITY_DN13916_c3_g3::TRINITY_DN13916_c3_g3_i3::g.30403::m.30403	0	785	XP_018829125.1	calnexin homolog	Juglans regia	XP_018829196.1

TRINITY_DN17369_c1_g1::TRINITY_DN17369_c1_g1_i7::g.82610::m.82610	6,07E-164	456	XP_018845601.1	proteasome subunit beta type-6	Juglans regia	KDP33416.1
TRINITY_DN11073_c0_g1::TRINITY_DN11073_c0_g1_i1::g.6247::m.6247	3,34E-142	399	XP_018851128.1	40S ribosomal protein S5	Juglans regia	XP_009379661.1
TRINITY_DN17221_c0_g2::TRINITY_DN17221_c0_g2_i11::g.80299::m.80299	0	862	XP_018829691.1	eukaryotic peptide chain release factor GTP-binding subunit ERF3A isoform X2	Juglans regia	XP_018829690.1
TRINITY_DN13021_c1_g2::TRINITY_DN13021_c1_g2_i3::g.18779::m.18779	5,06E-134	386	XP_018811500.1	desiccation-related protein PCC13-62-like	Juglans regia	XP_018811498.1
TRINITY_DN19942_c0_g1::TRINITY_DN19942_c0_g1_i1::g.126320::m.126320	1,05E-129	367	XP_008234622.1	60S ribosomal protein L9-1	Prunus mume	ONI25805.1
TRINITY_DN13485_c2_g3::TRINITY_DN13485_c2_g3_i2::g.24428::m.24428	6,58E-128	364	XP_018856887.1	NADP-dependent malic enzyme-like isoform X2	Juglans regia	XP_018856888.1
TRINITY_DN15741_c2_g1::TRINITY_DN15741_c2_g1_i4::g.55925::m.55925	3,38E-36	126	XP_018811921.1	elicitor-responsive protein 3	Juglans regia	OAY56540.1
TRINITY_DN18489_c2_g1::TRINITY_DN18489_c2_g1_i22::g.101262::m.101262	0	1148	XP_018837801.1	NADPH--cytochrome P450 reductase	Juglans regia	KYP69307.1
TRINITY_DN13122_c2_g4::TRINITY_DN13122_c2_g4_i4::g.20179::m.20179	2,20E-170	474	AET62962.1	cytochrome c oxidase subunit 2 (mitochondrion)	Lotus japonicus	YP_005090502.1
TRINITY_DN19434_c2_g3::TRINITY_DN19434_c2_g3_i2::g.117952::m.117952	0	1134	XP_018851614.1	glycerol-3-phosphate dehydrogenase SDP6, mitochondrial	Juglans regia	XP_018822930.1
TRINITY_DN16406_c2_g3::TRINITY_DN16406_c2_g3_i1::g.67214::m.67214	1,99E-132	374	XP_018845301.1	60S ribosomal protein L13-1	Juglans regia	XP_018845302.1
TRINITY_DN11854_c0_g1::TRINITY_DN11854_c0_g1_i1::g.9190::m.9190	1,41E-72	219	XP_016649075.1	thioredoxin-1-like isoform X1	Prunus mume	ONI17086.1
TRINITY_DN13288_c0_g3::TRINITY_DN13288_c0_g3_i3::g.22072::m.22072	0	775	XP_018812075.1	glucan endo-1,3-beta-glucosidase 13-like	Juglans regia	XP_018812083.1
TRINITY_DN15507_c1_g1::TRINITY_DN15507_c1_g1_i1::g.53015::m.53015	7,27E-120	345	XP_012068733.1	cysteine proteinase inhibitor 6	Jatropha curcas	KDP40574.1
TRINITY_DN15130_c6_g3::TRINITY_DN15130_c6_g3_i3::g.47307::m.47307	0	572	XP_018809730.1	probable protein phosphatase 2C 76	Juglans regia	XP_018809734.1
TRINITY_DN15473_c0_g1::TRINITY_DN15473_c0_g1_i4::g.52564::m.52564	0	595	XP_018814928.1	probable lactoylglutathione lyase, chloroplastic	Juglans regia	OAY27259.1
TRINITY_DN18360_c0_g5::TRINITY_DN18360_c0_g5_i1::g.99194::m.99194	3,13E-122	361	KRG95807.1	hypothetical protein GLYMA_19G172200	Glycine max	KHN48981.1
TRINITY_DN18610_c1_g2::TRINITY_DN18610_c1_g2_i3::g.103387::m.103387	0	1684	XP_018810540.1	probable glucan 1,3-alpha-glucosidase	Juglans regia	XP_018810541.1
TRINITY_DN19948_c1_g1::TRINITY_DN19948_c1_g1_i7::g.126477::m.126477	2,57E-63	206	XP_018809878.1	ketol-acid reductoisomerase, chloroplastic	Juglans regia	XP_018840362.1
TRINITY_DN15732_c1_g2::TRINITY_DN15732_c1_g2_i3::g.56333::m.56333	0	977	XP_018812048.1	T-complex protein 1 subunit beta	Juglans regia	OAY50499.1
TRINITY_DN19268_c1_g1::TRINITY_DN19268_c1_g1_i2::g.114841::m.114841	0	790	XP_018854045.1	T-complex protein 1 subunit alpha	Juglans regia	XP_018854052.1
TRINITY_DN15694_c2_g2::TRINITY_DN15694_c2_g2_i2::g.54517::m.54517	1,82E-140	398	XP_015947071.1	cytochrome c1-2, heme protein, mitochondrial	Arachis duranensis	XP_015947072.1

TRINITY_DN13820_c2_g1::TRINITY_DN13820_c2_g1_i2::g.28694::m.28694	0	647	XP_018852657.1	dnaJ protein homolog	Juglans regia	XP_018805733.1
TRINITY_DN18889_c2_g1::TRINITY_DN18889_c2_g1_i17::g.108140::m.108140	7,89E-149	420	XP_018824888.1	phosphoserine phosphatase, chloroplastic isoform X2	Juglans regia	XP_018824889.1
TRINITY_DN14517_c1_g1::TRINITY_DN14517_c1_g1_i15::g.38263::m.38263	0	602	XP_018813794.1	ubiquitin receptor RAD23b-like	Juglans regia	ONI16551.1
TRINITY_DN15211_c1_g1::TRINITY_DN15211_c1_g1_i7::g.48526::m.48526	8,95E-156	437	XP_018841431.1	5'-methylthioadenosine/S-adenosylhomocysteine nucleosidase 2-like isoform X1	Juglans regia	XP_018815344.1
TRINITY_DN19169_c1_g1::TRINITY_DN19169_c1_g1_i1::g.113168::m.113168	7,19E-61	192	XP_018859184.1	cinnamoyl-CoA reductase 2-like isoform X3	Juglans regia	XP_018859182.1
TRINITY_DN18383_c2_g3::TRINITY_DN18383_c2_g3_i1::g.99654::m.99654	0	780	XP_018848041.1	hsp70-Hsp90 organizing protein 3-like	Juglans regia	XP_018848041.1
TRINITY_DN14308_c0_g1::TRINITY_DN14308_c0_g1_i1::g.35383::m.35383	0	587	XP_018807871.1	putative G3BP-like protein isoform X2	Juglans regia	XP_018807870.1
TRINITY_DN13126_c1_g2::TRINITY_DN13126_c1_g2_i1::g.20156::m.20156	1,64E-86	254	KYP67019.1	Ras-related protein RABH1B	Cajanus cajan	ONI22221.1
TRINITY_DN18038_c0_g1::TRINITY_DN18038_c0_g1_i7::g.94082::m.94082	8,28E-83	242	XP_018815860.1	40S ribosomal protein S20-2	Juglans regia	XP_018815861.1
TRINITY_DN14696_c0_g1::TRINITY_DN14696_c0_g1_i2::g.40666::m.40666	1,64E-61	193	XP_018810857.1	early nodulin-like protein 1	Juglans regia	KDP33508.1
TRINITY_DN15303_c0_g1::TRINITY_DN15303_c0_g1_i2::g.49908::m.49908	0	560	XP_018845848.1	DNA-damage-repair/toleration protein DRT102-like	Juglans regia	XP_018845850.1
TRINITY_DN15702_c0_g4::TRINITY_DN15702_c0_g4_i1::g.55937::m.55937	0	504	XP_018860017.1	60S ribosomal protein L8-1-like	Juglans regia	XP_018822032.1
TRINITY_DN13427_c0_g2::TRINITY_DN13427_c0_g2_i5::g.23653::m.23653	1,99E-48	155	XP_018821920.1	40S ribosomal protein S26-1-like	Juglans regia	XP_018810475.1
TRINITY_DN19814_c1_g2::TRINITY_DN19814_c1_g2_i2::g.124101::m.124101	2,98E-97	300	XP_018813183.1	phosphoenolpyruvate carboxykinase [ATP-like]	Juglans regia	XP_018821098.1
TRINITY_DN12264_c2_g2::TRINITY_DN12264_c2_g2_i2::g.11522::m.11522	0	760	XP_018811933.1	plant UBX domain-containing protein 8	Juglans regia	XP_018828814.1
TRINITY_DN13465_c1_g2::TRINITY_DN13465_c1_g2_i1::g.24163::m.24163	3,45E-163	479	XP_018807321.1	aconitate hydratase 1	Juglans regia	OAY57605.1
TRINITY_DN19983_c1_g1::TRINITY_DN19983_c1_g1_i9::g.127358::m.127358	8,84E-147	417	XP_018816369.1	uncharacterized protein At1g03900-like isoform X1	Juglans regia	XP_018816370.1
TRINITY_DN16964_c2_g5::TRINITY_DN16964_c2_g5_i4::g.76427::m.76427	3,47E-43	140	OAY45736.1	hypothetical protein MANES_07G087100	Manihot esculenta	OAY51398.1
TRINITY_DN17558_c0_g1::TRINITY_DN17558_c0_g1_i9::g.85984::m.85984	0	903	XP_018810128.1	D-3-phosphoglycerate dehydrogenase 2, chloroplastic-like	Juglans regia	KRH44645.1
TRINITY_DN17017_c2_g1::TRINITY_DN17017_c2_g1_i7::g.77030::m.77030	6,11E-169	469	XP_018821477.1	nicotinamidase 1-like	Juglans regia	XP_018826859.1
TRINITY_DN14717_c1_g1::TRINITY_DN14717_c1_g1_i9::g.42525::m.42525	1,43E-116	335	XP_018841699.1	ras-related protein RABE1c-like	Juglans regia	XP_018841700.1
TRINITY_DN13650_c8_g1::TRINITY_DN13650_c8_g1_i8::g.26099::m.26099	2,03E-77	232	XP_018844636.1	PITH domain-containing protein 1	Juglans regia	XP_020208532.1

TRINITY_DN18258_c0_g1::TRINITY_DN18258_c0_g1_i6::g.97657::m.97657	6,18E-54	176	XP_008236502.1	probable mannitol dehydrogenase	Prunus mume	KDP29800.1
TRINITY_DN13419_c2_g1::TRINITY_DN13419_c2_g1_i6::g.23702::m.23702	0	882	XP_018845472.1	ATP-dependent 6-phosphofructokinase 3-like isoform X1	Juglans regia	XP_018837558.1
TRINITY_DN18011_c2_g1::TRINITY_DN18011_c2_g1_i8::g.93702::m.93702	0	587	XP_018839987.1	fructokinase-2	Juglans regia	XP_018822554.1
TRINITY_DN14942_c0_g1::TRINITY_DN14942_c0_g1_i6::g.44624::m.44624	0	1255	XP_018815397.1	serine/threonine-protein phosphatase 7 long form homolog	Juglans regia	XP_018815398.1
TRINITY_DN17863_c0_g3::TRINITY_DN17863_c0_g3_i3::g.91035::m.91035	0	1150	XP_018843210.1	mitochondrial Rho GTPase 1-like	Juglans regia	XP_018841787.1
TRINITY_DN16933_c5_g1::TRINITY_DN16933_c5_g1_i5::g.75858::m.75858	0	818	XP_018828199.1	aspartate aminotransferase, mitochondrial-like isoform X1	Juglans regia	XP_018828201.1
TRINITY_DN19887_c8_g1::TRINITY_DN19887_c8_g1_i5::g.125402::m.125402	3,92E-41	147	XP_018825590.1	probable pectinesterase/pectinesterase inhibitor 21	Juglans regia	XP_018832135.1
TRINITY_DN14777_c4_g4::TRINITY_DN14777_c4_g4_i3::g.42104::m.42104	2,51E-127	399	XP_018819570.1	uncharacterized protein LOC108990151	Juglans regia	XP_018851886.1
TRINITY_DN6579_c0_g1::TRINITY_DN6579_c0_g1_i1::g.1685::m.1685	1,67E-142	413	OAY29021.1	hypothetical protein MANES_15G111700	Manihot esculenta	XP_008219577.1
TRINITY_DN16381_c2_g1::TRINITY_DN16381_c2_g1_i3::g.66693::m.66693	0	1840	XP_018835573.1	presequence protease 1, chloroplastic/mitochondrial-like	Juglans regia	OAY39086.1
TRINITY_DN14242_c1_g2::TRINITY_DN14242_c1_g2_i9::g.34423::m.34423	9,61E-166	466	XP_018857023.1	persulfide dioxygenase ETHE1 homolog, mitochondrial	Juglans regia	XP_018857027.1
TRINITY_DN18618_c2_g1::TRINITY_DN18618_c2_g1_i14::g.103865::m.103865	0	1961	XP_018828368.1	tripeptidyl-peptidase 2-like	Juglans regia	XP_018830702.1
TRINITY_DN13619_c0_g1::TRINITY_DN13619_c0_g1_i2::g.26348::m.26348	1,26E-97	283	XP_018825729.1	universal stress protein PHOS32-like isoform X2	Juglans regia	KDP27925.1
TRINITY_DN17578_c3_g1::TRINITY_DN17578_c3_g1_i5::g.85666::m.85666	0	1959	XP_018837083.1	probable sucrose-phosphate synthase 2	Juglans regia	ONI28761.1
TRINITY_DN16993_c0_g2::TRINITY_DN16993_c0_g2_i2::g.76741::m.76741	0	1095	XP_018808002.1	subtilisin-like protease SBT1.7	Juglans regia	OAY23008.1
TRINITY_DN13712_c0_g1::TRINITY_DN13712_c0_g1_i1::g.27487::m.27487	1,97E-168	472	XP_018838975.1	alpha-soluble NSF attachment protein 2	Juglans regia	XP_018821859.1
TRINITY_DN14406_c2_g1::TRINITY_DN14406_c2_g1_i7::g.36607::m.36607	0	1238	XP_018824245.1	acyl-coenzyme A oxidase 3, peroxisomal-like	Juglans regia	XP_018824246.1
TRINITY_DN18981_c5_g1::TRINITY_DN18981_c5_g1_i2::g.109832::m.109832	0	974	XP_018837477.1	T-complex protein 1 subunit eta isoform X1	Juglans regia	XP_016166375.1
TRINITY_DN13705_c0_g1::TRINITY_DN13705_c0_g1_i7::g.27449::m.27449	0	738	XP_018818431.1	tubulin alpha-3 chain	Juglans regia	XP_018820085.1
TRINITY_DN17456_c0_g1::TRINITY_DN17456_c0_g1_i8::g.83943::m.83943	9,66E-122	347	XP_018814564.1	soluble inorganic pyrophosphatase 1	Juglans regia	XP_018834262.1
TRINITY_DN18817_c0_g1::TRINITY_DN18817_c0_g1_i10::g.107314::m.107314	0	821	XP_018850614.1	proton pump-interactor 1-like	Juglans regia	XP_018823042.1
TRINITY_DN19070_c1_g2::TRINITY_DN19070_c1_g2_i7::g.110348::m.110348	3,68E-139	392	XP_018809757.1	calcyclin-binding protein-like	Juglans regia	XP_018819738.1

TRINITY_DN12832_c2_g6::TRINITY_DN12832_c2_g6_i1::g.16307::m.16307	0	537	XP_018849554.1	prohibitin-1, mitochondrial isoform X1	Juglans regia	XP_018849555.1
TRINITY_DN14216_c0_g3::TRINITY_DN14216_c0_g3_i3::g.34216::m.34216	1,49E-83	252	XP_018854242.1	probable aldo-keto reductase 1	Juglans regia	XP_018826312.1
TRINITY_DN16423_c1_g3::TRINITY_DN16423_c1_g3_i3::g.67278::m.67278	0	974	XP_018843166.1	proline--tRNA ligase, cytoplasmic-like isoform X1	Juglans regia	XP_018843167.1
TRINITY_DN13521_c0_g4::TRINITY_DN13521_c0_g4_i1::g.24842::m.24842	8,88E-139	408	XP_018815040.1	dihydrolipoyllysine-residue acetyltransferase component 4 of pyruvate dehydrogenase complex, chloroplastic-like	Juglans regia	XP_018825347.1
TRINITY_DN11068_c0_g1::TRINITY_DN11068_c0_g1_i1::g.6241::m.6241	5,37E-27	100	XP_018852998.1	60S acidic ribosomal protein P3-like	Juglans regia	XP_018860534.1
TRINITY_DN11631_c0_g1::TRINITY_DN11631_c0_g1_i1::g.8169::m.8169	6,62E-175	489	XP_018856419.1	uncharacterized protein LOC109018719	Juglans regia	XP_018856421.1
TRINITY_DN17644_c1_g2::TRINITY_DN17644_c1_g2_i9::g.87544::m.87544	0	849	XP_018836411.1	catalase isozyme 1	Juglans regia	CAD42908.1
TRINITY_DN16032_c0_g1::TRINITY_DN16032_c0_g1_i4::g.60901::m.60901	0	626	XP_018828122.1	glutelin type-B 5-like	Juglans regia	XP_018828123.1
TRINITY_DN16763_c1_g3::TRINITY_DN16763_c1_g3_i3::g.72969::m.72969	0	728	ONI30885.1	hypothetical protein PRUPE_1G279500	Prunus persica	XP_007222547.1
TRINITY_DN13349_c1_g1::TRINITY_DN13349_c1_g1_i7::g.22584::m.22584	1,78E-138	389	XP_018831854.1	CBS domain-containing protein CBSX3, mitochondrial-like	Juglans regia	OAY58828.1
TRINITY_DN14455_c0_g1::TRINITY_DN14455_c0_g1_i2::g.37451::m.37451	0	665	XP_018847910.1	phosphoglycerate kinase, chloroplastic	Juglans regia	XP_008371996.1
TRINITY_DN19436_c2_g2::TRINITY_DN19436_c2_g2_i1::g.118043::m.118043	2,55E-45	159	KDP22063.1	hypothetical protein JCGZ_25894	Jatropha curcas	XP_012089960.1
TRINITY_DN18302_c1_g2::TRINITY_DN18302_c1_g2_i2::g.98507::m.98507	5,50E-151	429	XP_018823047.1	2-methylene-furan-3-one reductase-like	Juglans regia	XP_018815084.1
TRINITY_DN13203_c0_g1::TRINITY_DN13203_c0_g1_i1::g.21059::m.21059	2,59E-68	204	XP_018850387.1	thioredoxin M-type, chloroplastic isoform X2	Juglans regia	XP_018822894.1
TRINITY_DN13389_c0_g2::TRINITY_DN13389_c0_g2_i2::g.23122::m.23122	0	521	OAY44160.1	hypothetical protein MANES_08G127300	Manihot esculenta	KDP23623.1
TRINITY_DN15149_c3_g1::TRINITY_DN15149_c3_g1_i3::g.47576::m.47576	0	867	KDP43990.1	hypothetical protein JCGZ_05457	Jatropha curcas	KDP43990.1
TRINITY_DN19596_c0_g2::TRINITY_DN19596_c0_g2_i1::g.120414::m.120414	0	887	XP_018815731.1	glyoxysomal fatty acid beta-oxidation multifunctional protein MFP-a-like	Juglans regia	XP_018825769.1
TRINITY_DN11870_c0_g1::TRINITY_DN11870_c0_g1_i2::g.9275::m.9275	5,33E-63	191	OIW04754.1	hypothetical protein TanjilG_08637	Lupinus angustifolius	XP_019455662.1
TRINITY_DN18707_c2_g1::TRINITY_DN18707_c2_g1_i4::g.104948::m.104948	0	2169	XP_018842317.1	nodal modulator 1	Juglans regia	XP_008227880.1
TRINITY_DN18173_c2_g1::TRINITY_DN18173_c2_g1_i8::g.96624::m.96624	0	1746	XP_018845600.1	L-arabinokinase-like	Juglans regia	XP_018845086.1
TRINITY_DN11898_c0_g1::TRINITY_DN11898_c0_g1_i2::g.9380::m.9380	0	1217	XP_018846638.1	uncharacterized protein LOC109010309	Juglans regia	ONI33699.1

TRINITY_DN13113_c1_g1::TRINITY_DN13113_c1_g1_i4::g.20046::m.20046	0	1082	XP_018839434.1	pyruvate kinase isozyme A, chloroplastic-like	Juglans regia	XP_018818630.1
TRINITY_DN17740_c0_g2::TRINITY_DN17740_c0_g2_i7::g.89045::m.89045	6,34E-164	467	XP_018847079.1	LL-diaminopimelate aminotransferase, chloroplastic-like	Juglans regia	XP_017181435.1
TRINITY_DN13674_c0_g1::TRINITY_DN13674_c0_g1_i2::g.26925::m.26925	0	1590	XP_018816788.1	alpha-1,4 glucan phosphorylase L isozyme, chloroplastic/amyloplastic	Juglans regia	XP_018503860.1
TRINITY_DN17202_c2_g1::TRINITY_DN17202_c2_g1_i4::g.80033::m.80033	0	842	XP_018816929.1	uncharacterized protein LOC108988207	Juglans regia	XP_018843198.1
TRINITY_DN20008_c1_g1::TRINITY_DN20008_c1_g1_i8::g.127738::m.127738	0	647	XP_018840255.1	probable voltage-gated potassium channel subunit beta	Juglans regia	XP_018818414.1
TRINITY_DN17814_c1_g2::TRINITY_DN17814_c1_g2_i3::g.90444::m.90444	6,78E-60	186	XP_018845324.1	protein disulfide isomerase-like 5-1	Juglans regia	XP_009338286.1
TRINITY_DN19612_c1_g2::TRINITY_DN19612_c1_g2_i9::g.120821::m.120821	0	637	XP_018809366.1	probable methyltransferase PMT18	Juglans regia	XP_018844923.1
TRINITY_DN13600_c1_g7::TRINITY_DN13600_c1_g7_i6::g.25108::m.25108	4,43E-88	265	XP_018844008.1	protein FATTY ACID EXPORT 1, chloroplastic-like	Juglans regia	XP_018847055.1
TRINITY_DN18619_c0_g2::TRINITY_DN18619_c0_g2_i2::g.103437::m.103437	1,22E-107	310	XP_018815940.1	60S ribosomal protein L18-2	Juglans regia	XP_018841792.1
TRINITY_DN18061_c2_g3::TRINITY_DN18061_c2_g3_i1::g.94540::m.94540	7,86E-87	254	XP_018806248.1	40S ribosomal protein S17-3-like	Juglans regia	XP_018806249.1
TRINITY_DN15930_c2_g3::TRINITY_DN15930_c2_g3_i6::g.59212::m.59212	0	658	ONI05269.1	hypothetical protein PRUPE_6G365100	Prunus persica	XP_007205316.1
TRINITY_DN14203_c2_g1::TRINITY_DN14203_c2_g1_i1::g.33817::m.33817	0	1793	XP_018821368.1	chaperone protein ClpB3, chloroplastic-like	Juglans regia	XP_018816799.1
TRINITY_DN17074_c4_g2::TRINITY_DN17074_c4_g2_i4::g.77976::m.77976	0	944	ONH93998.1	hypothetical protein PRUPE_8G265300	Prunus persica	XP_007200983.1
TRINITY_DN17405_c1_g3::TRINITY_DN17405_c1_g3_i1::g.83287::m.83287	0	559	XP_018841018.1	NADH-cytochrome b5 reductase-like protein	Juglans regia	XP_009368820.1
TRINITY_DN16821_c3_g1::TRINITY_DN16821_c3_g1_i2::g.73875::m.73875	0	866	XP_018828537.1	protein NETWORKED 4A-like isoform X1	Juglans regia	XP_018828539.1
TRINITY_DN13494_c0_g3::TRINITY_DN13494_c0_g3_i1::g.24527::m.24527	2,74E-132	373	XP_018817673.1	40S ribosomal protein S9-2-like	Juglans regia	XP_018845180.1
TRINITY_DN10893_c0_g1::TRINITY_DN10893_c0_g1_i1::g.5751::m.5751	0	533	XP_018825452.1	glucan endo-1,3-beta-glucosidase-like	Juglans regia	XP_018825472.1
TRINITY_DN16490_c2_g1::TRINITY_DN16490_c2_g1_i1::g.68401::m.68401	0	843	XP_018805409.1	dihydrolipoyl dehydrogenase 2, chloroplastic-like	Juglans regia	XP_016198035.1
TRINITY_DN16487_c1_g2::TRINITY_DN16487_c1_g2_i5::g.68395::m.68395	4,12E-90	263	XP_016187428.1	basic transcription factor 3	Arachis ipaensis	XP_016187427.1
TRINITY_DN17201_c0_g1::TRINITY_DN17201_c0_g1_i1::g.79917::m.79917	0	1024	XP_018819165.1	pyruvate decarboxylase 1-like	Juglans regia	XP_020977085.1
TRINITY_DN14870_c0_g1::TRINITY_DN14870_c0_g1_i2::g.43479::m.43479	3,48E-160	446	XP_018840891.1	proteasome subunit beta type-1	Juglans regia	OAY62404.1
TRINITY_DN14090_c0_g1::TRINITY_DN14090_c0_g1_i4::g.32240::m.32240	0	742	ONI11169.1	hypothetical protein PRUPE_4G091100	Prunus persica	XP_007211399.1

TRINITY_DN18902_c0_g1::TRINITY_DN18902_c0_g1_i9::g.108609::m.108609	0	628	XP_018805998.1	uncharacterized protein LOC108979726, partial	Juglans regia	XP_009375672.1
TRINITY_DN19154_c1_g1::TRINITY_DN19154_c1_g1_i1::g.113024::m.113024	2,96E-138	390	XP_018821863.1	superoxide dismutase [Mn], mitochondrial-like	Juglans regia	AEZ56249.1
TRINITY_DN14612_c0_g1::TRINITY_DN14612_c0_g1_i2::g.39550::m.39550	0	676	XP_018813652.1	probable purple acid phosphatase 20 isoform X2	Juglans regia	XP_018813650.1
TRINITY_DN16497_c0_g2::TRINITY_DN16497_c0_g2_i8::g.67601::m.67601	0	1145	OAY52363.1	hypothetical protein MANES_04G077500	Manihot esculenta	OAY52364.1
TRINITY_DN10818_c0_g1::TRINITY_DN10818_c0_g1_i2::g.5587::m.5587	3,82E-38	128	OAY30129.1	hypothetical protein MANES_14G006100	Manihot esculenta	OAY30128.1
TRINITY_DN14143_c3_g2::TRINITY_DN14143_c3_g2_i2::g.32997::m.32997	0	1114	XP_018812753.1	glucose-6-phosphate isomerase 1, chloroplastic	Juglans regia	KHN08244.1
TRINITY_DN16212_c0_g1::TRINITY_DN16212_c0_g1_i2::g.63955::m.63955	0	612	XP_018815515.1	spermidine synthase 1-like	Juglans regia	OAY34570.1
TRINITY_DN11356_c0_g1::TRINITY_DN11356_c0_g1_i1::g.7113::m.7113	3,45E-29	109	ONH95541.1	hypothetical protein PRUPE_7G076400	Prunus persica	ONH95542.1
TRINITY_DN15198_c1_g2::TRINITY_DN15198_c1_g2_i7::g.48337::m.48337	5,82E-129	379	XP_018814398.1	protein RETICULATA-RELATED 3, chloroplastic-like	Juglans regia	KDP21842.1
TRINITY_DN19436_c2_g3::TRINITY_DN19436_c2_g3_i1::g.118048::m.118048	7,58E-52	178	XP_018807473.1	uncharacterized protein LOC108980890	Juglans regia	XP_020540826.1
TRINITY_DN13757_c0_g1::TRINITY_DN13757_c0_g1_i4::g.28204::m.28204	2,85E-163	456	XP_018834440.1	40S ribosomal protein S2-4-like	Juglans regia	XP_018837209.1
TRINITY_DN14326_c0_g1::TRINITY_DN14326_c0_g1_i2::g.35500::m.35500	6,15E-22	91,7	XP_018833902.1	cytochrome c oxidase subunit 6b-1-like isoform X2	Juglans regia	XP_018833901.1
TRINITY_DN17638_c0_g5::TRINITY_DN17638_c0_g5_i1::g.87396::m.87396	1,11E-58	191	XP_004488391.1	polygalacturonase-like	Cicer arietinum	KRH14091.1
TRINITY_DN16307_c2_g1::TRINITY_DN16307_c2_g1_i9::g.65550::m.65550	0	1098	XP_018851318.1	serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A beta isoform	Juglans regia	XP_018851318.1
TRINITY_DN18255_c1_g1::TRINITY_DN18255_c1_g1_i6::g.97743::m.97743	0	2897	XP_018820347.1	myosin-11 isoform X1	Juglans regia	ONI04899.1
TRINITY_DN18634_c2_g1::TRINITY_DN18634_c2_g1_i4::g.104214::m.104214	0	1026	XP_018847003.1	subtilisin-like protease SBT1.2	Juglans regia	XP_007208895.1
TRINITY_DN12779_c0_g1::TRINITY_DN12779_c0_g1_i3::g.15740::m.15740	0	1015	XP_018813183.1	phosphoenolpyruvate carboxykinase [ATP-like]	Juglans regia	XP_018813767.1
TRINITY_DN15549_c2_g2::TRINITY_DN15549_c2_g2_i1::g.53640::m.53640	0	582	XP_018848084.1	polyadenylate-binding protein 3	Juglans regia	XP_018848084.1
TRINITY_DN19606_c0_g1::TRINITY_DN19606_c0_g1_i15::g.121023::m.121023	5,28E-136	388	XP_018842448.1	cysteine synthase	Juglans regia	XP_018842449.1
TRINITY_DN16691_c0_g1::TRINITY_DN16691_c0_g1_i7::g.71695::m.71695	0	584	XP_018849296.1	succinate--CoA ligase [ADP-forming] subunit alpha-1, mitochondrial	Juglans regia	XP_009355925.1
TRINITY_DN16311_c1_g1::TRINITY_DN16311_c1_g1_i8::g.65782::m.65782	0	851	XP_018859613.1	plastidic glucose transporter 4-like	Juglans regia	XP_018816890.1
TRINITY_DN15482_c4_g1::TRINITY_DN15482_c4_g1_i5::g.52502::m.52502	9,75E-136	385	XP_018823879.1	translocon-associated protein subunit alpha-like	Juglans regia	XP_018841445.1

TRINITY_DN15556_c2_g3::TRINITY_DN15556_c2_g3_i7::g.53767::m.53767	0	636	OAY30143.1	hypothetical protein MANES_14G007400	Manihot esculenta	XP_012087346.1
TRINITY_DN12323_c0_g1::TRINITY_DN12323_c0_g1_i4::g.11964::m.11964	0	1004	XP_018858088.1	pyruvate kinase, cytosolic isozyme-like	Juglans regia	XP_018858157.1
TRINITY_DN15236_c1_g2::TRINITY_DN15236_c1_g2_i4::g.49063::m.49063	0	804	XP_018817298.1	protein transport protein SEC31 homolog B-like isoform X2	Juglans regia	XP_018817293.1
TRINITY_DN17457_c4_g1::TRINITY_DN17457_c4_g1_i4::g.83960::m.83960	1,56E-119	341	XP_018810064.1	eukaryotic translation initiation factor	Juglans regia	XP_018807853.1
TRINITY_DN11580_c0_g1::TRINITY_DN11580_c0_g1_i1::g.7933::m.7933	0	638	XP_018824341.1	UPF0160 protein	Juglans regia	XP_018859956.1
TRINITY_DN15072_c0_g1::TRINITY_DN15072_c0_g1_i2::g.46447::m.46447	0	570	XP_018847856.1	protein transport protein SEC13 homolog B	Juglans regia	XP_018839977.1
TRINITY_DN19781_c5_g1::TRINITY_DN19781_c5_g1_i1::g.123563::m.123563	0	770	XP_018816946.1	eukaryotic translation initiation factor 3 subunit M-like	Juglans regia	ONI18991.1
TRINITY_DN19199_c1_g1::TRINITY_DN19199_c1_g1_i2::g.113819::m.113819	0	3323	XP_018845624.1	centrosomal protein of 290 kDa isoform X2	Juglans regia	XP_018845623.1
TRINITY_DN11501_c0_g1::TRINITY_DN11501_c0_g1_i5::g.7580::m.7580	4,07E-84	247	XP_018842451.1	lactoylglutathione lyase-like	Juglans regia	XP_008390907.1
TRINITY_DN18781_c0_g5::TRINITY_DN18781_c0_g5_i3::g.106209::m.106209	1,56E-142	404	XP_018828827.1	eukaryotic translation initiation factor 3 subunit I-like	Juglans regia	XP_018828827.1
TRINITY_DN19854_c2_g2::TRINITY_DN19854_c2_g2_i3::g.124560::m.124560	0	782	XP_018842400.1	eukaryotic translation initiation factor 3 subunit C isoform X1	Juglans regia	XP_018842401.1
TRINITY_DN14973_c1_g2::TRINITY_DN14973_c1_g2_i1::g.45015::m.45015	9,40E-106	303	XP_018847314.1	probable NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 5, mitochondrial	Juglans regia	XP_018847315.1
TRINITY_DN16462_c1_g1::TRINITY_DN16462_c1_g1_i7::g.68028::m.68028	1,32E-176	490	XP_018841038.1	acyl-protein thioesterase 2-like isoform X1	Juglans regia	XP_012078729.1
TRINITY_DN16061_c2_g1::TRINITY_DN16061_c2_g1_i1::g.61310::m.61310	0	782	XP_018817984.1	uridine 5'-monophosphate synthase-like	Juglans regia	ONI20769.1
TRINITY_DN15683_c2_g1::TRINITY_DN15683_c2_g1_i10::g.55639::m.55639	3,01E-91	290	OIW19305.1	hypothetical protein TanjilG_16839	Lupinus angustifolius	XP_019429734.1
TRINITY_DN11090_c0_g1::TRINITY_DN11090_c0_g1_i1::g.6289::m.6289	3,03E-113	326	KDP28201.1	hypothetical protein JCGZ_13972	Jatropha curcas	XP_012082823.1
TRINITY_DN16191_c2_g1::TRINITY_DN16191_c2_g1_i7::g.63681::m.63681	0	1014	XP_018838880.1	fimbrin-5-like	Juglans regia	XP_018838880.1
TRINITY_DN19075_c0_g2::TRINITY_DN19075_c0_g2_i2::g.111296::m.111296	0	1087	XP_018805414.1	delta(24)-sterol reductase	Juglans regia	XP_018805415.1
TRINITY_DN11919_c0_g1::TRINITY_DN11919_c0_g1_i1::g.9495::m.9495	1,17E-144	407	KDP25291.1	hypothetical protein JCGZ_20447	Jatropha curcas	XP_018824362.1
TRINITY_DN17942_c1_g1::TRINITY_DN17942_c1_g1_i6::g.91683::m.91683	0	754	KDP38816.1	hypothetical protein JCGZ_04973	Jatropha curcas	OAY39803.1
TRINITY_DN15935_c0_g1::TRINITY_DN15935_c0_g1_i1::g.59258::m.59258	0	805	XP_018842240.1	biotin carboxylase 1, chloroplastic isoform X1	Juglans regia	XP_018842241.1
TRINITY_DN16842_c1_g4::TRINITY_DN16842_c1_g4_i5::g.74459::m.74459	1,12E-97	282	XP_018813840.1	ferredoxin, root R-B1-like	Juglans regia	ONI01252.1

TRINITY_DN14360_c0_g2::TRINITY_DN14360_c0_g2_i2::g.35887::m.35887	0	868	XP_018833466.1	tubulin beta-1 chain isoform X1	Juglans regia	XP_018833467.1
TRINITY_DN13161_c0_g1::TRINITY_DN13161_c0_g1_i3::g.20601::m.20601	9,87E-98	288	XP_018832954.1	putative expansin-A17	Juglans regia	XP_018843121.1
TRINITY_DN17755_c1_g2::TRINITY_DN17755_c1_g2_i5::g.89168::m.89168	0	671	XP_018852266.1	dihydrolipoyllysine-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex 2, mitochondrial-like	Juglans regia	XP_018852267.1
TRINITY_DN17545_c0_g1::TRINITY_DN17545_c0_g1_i5::g.84940::m.84940	0	1329	XP_018829229.1	glycine--tRNA ligase, mitochondrial 1-like	Juglans regia	XP_018841636.1
TRINITY_DN11691_c0_g1::TRINITY_DN11691_c0_g1_i1::g.8068::m.8068	0	822	XP_018839115.1	delta-1-pyrroline-5-carboxylate synthase-like	Juglans regia	XP_018820283.1
TRINITY_DN14965_c0_g1::TRINITY_DN14965_c0_g1_i3::g.45244::m.45244	0	1043	XP_018828804.1	uncharacterized protein LOC108997121 isoform X1	Juglans regia	XP_008233319.1
TRINITY_DN17740_c0_g1::TRINITY_DN17740_c0_g1_i2::g.89044::m.89044	5,11E-120	350	XP_018847079.1	LL-diaminopimelate aminotransferase, chloroplastic-like	Juglans regia	ONH92109.1
TRINITY_DN16246_c0_g1::TRINITY_DN16246_c0_g1_i1::g.63895::m.63895	0	582	XP_018826879.1	L-galactose dehydrogenase	Juglans regia	XP_008236174.1
TRINITY_DN18982_c0_g1::TRINITY_DN18982_c0_g1_i8::g.109877::m.109877	0	659	XP_018825910.1	ERBB-3 BINDING PROTEIN 1 isoform X1	Juglans regia	KDP22867.1
TRINITY_DN13531_c1_g1::TRINITY_DN13531_c1_g1_i7::g.25242::m.25242	0	1021	XP_008338464.1	protein NETWORKED 2D-like	Malus domestica	ONI02491.1
TRINITY_DN13348_c2_g1::TRINITY_DN13348_c2_g1_i3::g.22605::m.22605	7,34E-84	246	XP_018831277.1	40S ribosomal protein S14-3	Juglans regia	XP_018814658.1
TRINITY_DN19420_c3_g1::TRINITY_DN19420_c3_g1_i7::g.117669::m.117669	1,33E-86	252	XP_008218349.1	60S ribosomal protein L23	Prunus mume	XP_008224171.1
TRINITY_DN13350_c3_g1::TRINITY_DN13350_c3_g1_i5::g.22631::m.22631	0	520	XP_018836913.1	serine carboxypeptidase-like	Juglans regia	ONI23789.1
TRINITY_DN16612_c3_g2::TRINITY_DN16612_c3_g2_i3::g.70349::m.70349	1,71E-106	332	XP_018844325.1	ATPase 9, plasma membrane-type	Juglans regia	OAY52718.1
TRINITY_DN12310_c0_g1::TRINITY_DN12310_c0_g1_i3::g.11787::m.11787	0	764	XP_018821818.1	alpha-galactosidase 3 isoform X1	Juglans regia	OAY46379.1
TRINITY_DN14939_c1_g2::TRINITY_DN14939_c1_g2_i3::g.44685::m.44685	1,28E-96	288	XP_018857924.1	GDSL esterase/lipase At1g29670-like	Juglans regia	XP_018809856.1
TRINITY_DN10911_c0_g2::TRINITY_DN10911_c0_g2_i2::g.5805::m.5805	0	526	OAY32440.1	hypothetical protein MANES_13G017700	Manihot esculenta	XP_018836697.1
TRINITY_DN16718_c6_g1::TRINITY_DN16718_c6_g1_i4::g.72149::m.72149	4,01E-124	364	XP_018834200.1	endoglucanase 9-like	Juglans regia	XP_018834199.1
TRINITY_DN16625_c2_g1::TRINITY_DN16625_c2_g1_i8::g.70673::m.70673	1,78E-102	293	XP_020233270.1	ras-related protein RABH1e-like, partial	Cajanus cajan	XP_018498817.1
TRINITY_DN15294_c5_g1::TRINITY_DN15294_c5_g1_i4::g.49817::m.49817	0	932	XP_018816807.1	glutamate decarboxylase 1	Juglans regia	OAY57229.1
TRINITY_DN19873_c6_g8::TRINITY_DN19873_c6_g8_i6::g.124910::m.124910	3,09E-177	504	XP_018845479.1	NADP-dependent malic enzyme	Juglans regia	KRH74264.1

TRINITY_DN15424_c2_g3::TRINITY_DN15424_c2_g3_i3::g.51667::m.51667	0	634	XP_018826340.1	vicilin-like seed storage protein At2g18540	Juglans regia	XP_008241881.1
TRINITY_DN16774_c0_g1::TRINITY_DN16774_c0_g1_i9::g.73138::m.73138	0	614	XP_018850953.1	dual specificity protein phosphatase 12-like	Juglans regia	XP_018850954.1
TRINITY_DN17278_c1_g1::TRINITY_DN17278_c1_g1_i1::g.81211::m.81211	2,66E-45	146	XP_018830962.1	uncharacterized protein LOC108998731 isoform X1	Juglans regia	XP_018830963.1
TRINITY_DN13302_c0_g2::TRINITY_DN13302_c0_g2_i1::g.22438::m.22438	5,47E-167	471	XP_018814733.1	ubiquinone biosynthesis protein COQ9, mitochondrial-like	Juglans regia	OAY54020.1
TRINITY_DN12343_c0_g1::TRINITY_DN12343_c0_g1_i5::g.11815::m.11815	5,96E-127	359	XP_018853133.1	40S ribosomal protein S7-like	Juglans regia	XP_018815497.1
TRINITY_DN16818_c0_g1::TRINITY_DN16818_c0_g1_i9::g.73983::m.73983	1,18E-162	464	XP_018821556.1	nucleosome assembly protein 1;4-like	Juglans regia	ONI15530.1
TRINITY_DN19014_c2_g1::TRINITY_DN19014_c2_g1_i4::g.110590::m.110590	3,20E-67	221	XP_018849376.1	phosphoenolpyruvate carboxylase, housekeeping isozyme	Juglans regia	ABM16909.1
TRINITY_DN12914_c1_g1::TRINITY_DN12914_c1_g1_i4::g.17252::m.17252	3,37E-40	132	ADD69807.1	copper transport protein ATOX1	Hevea brasiliensis	OAY45760.1
TRINITY_DN17100_c3_g1::TRINITY_DN17100_c3_g1_i1::g.78525::m.78525	1,95E-114	327	OIW18014.1	hypothetical protein TanjilG_07598	Lupinus angustifolius	XP_019460299.1
TRINITY_DN14403_c4_g2::TRINITY_DN14403_c4_g2_i1::g.36526::m.36526	0	1971	XP_018815757.1	phosphoglucan, water dikinase, chloroplastic isoform X1	Juglans regia	XP_018815758.1
TRINITY_DN18412_c2_g2::TRINITY_DN18412_c2_g2_i2::g.100143::m.100143	0	954	OAY24991.1	hypothetical protein MANES_17G059700	Manihot esculenta	OAY24992.1
TRINITY_DN14115_c3_g1::TRINITY_DN14115_c3_g1_i10::g.32650::m.32650	0	715	XP_018816053.1	mannosyl-oligosaccharide 1,2-alpha-mannosidase MNS1-like isoform X2	Juglans regia	XP_018820403.1
TRINITY_DN15464_c0_g5::TRINITY_DN15464_c0_g5_i1::g.52274::m.52274	1,44E-111	335	XP_018814481.1	heat shock cognate 70 kDa protein 2-like	Juglans regia	OAY38641.1
TRINITY_DN15531_c1_g1::TRINITY_DN15531_c1_g1_i14::g.53405::m.53405	9,01E-83	243	XP_018849412.1	nudix hydrolase 16, mitochondrial isoform X3	Juglans regia	XP_018849410.1
TRINITY_DN12587_c0_g1::TRINITY_DN12587_c0_g1_i1::g.13954::m.13954	6,89E-141	399	XP_018811145.1	glucose and ribitol dehydrogenase homolog 1-like isoform X2	Juglans regia	XP_018811144.1
TRINITY_DN17254_c0_g1::TRINITY_DN17254_c0_g1_i5::g.81103::m.81103	0	547	XP_018844641.1	far upstream element-binding protein 1 isoform X2	Juglans regia	XP_018812438.1
TRINITY_DN17518_c0_g1::TRINITY_DN17518_c0_g1_i5::g.85741::m.85741	2,50E-87	258	XP_018820076.1	SKP1-like protein 1B	Juglans regia	XP_018853688.1
TRINITY_DN16163_c4_g1::TRINITY_DN16163_c4_g1_i1::g.63306::m.63306	1,49E-90	278	XP_018850081.1	exopolygalacturonase-like	Juglans regia	XP_018856482.1
TRINITY_DN16238_c3_g1::TRINITY_DN16238_c3_g1_i4::g.64390::m.64390	0	851	KDP26669.1	hypothetical protein JCGZ_17827	Jatropha curcas	XP_020538969.1
TRINITY_DN19244_c2_g1::TRINITY_DN19244_c2_g1_i18::g.114657::m.114657	4,62E-90	271	XP_018811676.1	cold and drought-regulated protein CORA-like	Juglans regia	XP_018811677.1
TRINITY_DN19880_c6_g4::TRINITY_DN19880_c6_g4_i2::g.125001::m.125001	2,89E-81	247	XP_008233897.1	flavonol synthase/flavanone 3-hydroxylase-like	Prunus mume	XP_018820940.1
TRINITY_DN18615_c1_g3::TRINITY_DN18615_c1_g3_i2::g.103395::m.103395	3,30E-49	159	XP_018826141.1	endo-1,3;1,4-beta-D-glucanase-like isoform X2	Juglans regia	XP_015958680.1

TRINITY_DN15441_c0_g1::TRINITY_DN15441_c0_g1_i3::g.51487::m.51487	6,22E-77	226	XP_018834238.1	cytochrome c	Juglans regia	KOM36983.1
TRINITY_DN16789_c2_g4::TRINITY_DN16789_c2_g4_i5::g.73232::m.73232	1,43E-144	412	XP_018856900.1	S-adenosylmethionine synthase 2	Juglans regia	XP_018856907.1
TRINITY_DN12003_c0_g1::TRINITY_DN12003_c0_g1_i1::g.9933::m.9933	8,82E-158	444	XP_018820853.1	mitochondrial outer membrane protein porin 4	Juglans regia	XP_018831181.1
TRINITY_DN14879_c3_g3::TRINITY_DN14879_c3_g3_i2::g.43725::m.43725	0	966	XP_018847996.1	importin subunit alpha-1a-like	Juglans regia	XP_018847993.1
TRINITY_DN17985_c0_g4::TRINITY_DN17985_c0_g4_i1::g.93309::m.93309	0	663	AFK43004.1	unknown	Lotus japonicus	AFK46843.1
TRINITY_DN13592_c0_g2::TRINITY_DN13592_c0_g2_i5::g.25790::m.25790	0	706	XP_018817113.1	TOM1-like protein 2	Juglans regia	XP_018817114.1
TRINITY_DN19576_c0_g1::TRINITY_DN19576_c0_g1_i3::g.120043::m.120043	0	756	XP_018827773.1	uncharacterized protein LOC108996364	Juglans regia	XP_018827774.1
TRINITY_DN16215_c5_g2::TRINITY_DN16215_c5_g2_i7::g.63985::m.63985	0	1155	XP_018858095.1	ATP-citrate synthase beta chain protein 2	Juglans regia	XP_018858096.1
TRINITY_DN18909_c0_g1::TRINITY_DN18909_c0_g1_i4::g.108774::m.108774	0	1088	XP_018831990.1	eukaryotic translation initiation factor 3 subunit B-like	Juglans regia	OAY27531.1
TRINITY_DN15836_c2_g1::TRINITY_DN15836_c2_g1_i8::g.57209::m.57209	0	1060	XP_018834473.1	asparagine synthetase [glutamine]-hydrolyzing 3	Juglans regia	XP_018847046.1
TRINITY_DN13140_c0_g3::TRINITY_DN13140_c0_g3_i1::g.20389::m.20389	0	538	OAY42675.1	hypothetical protein MANES_08G007100	Manihot esculenta	XP_018821649.1
TRINITY_DN16820_c1_g1::TRINITY_DN16820_c1_g1_i7::g.73896::m.73896	6,83E-55	176	ONI08870.1	hypothetical protein PRUPE_5G205300	Prunus persica	XP_007209483.1
TRINITY_DN20043_c7_g1::TRINITY_DN20043_c7_g1_i1::g.128234::m.128234	4,65E-112	323	XP_018809557.1	rho GDP-dissociation inhibitor 1-like isoform X1	Juglans regia	XP_018809558.1
TRINITY_DN13259_c0_g1::TRINITY_DN13259_c0_g1_i1::g.21585::m.21585	0	674	XP_018834882.1	V-type proton ATPase subunit C	Juglans regia	ONI20047.1
TRINITY_DN18601_c0_g1::TRINITY_DN18601_c0_g1_i6::g.101598::m.101598	3,45E-149	424	XP_018844545.1	omega-amidase, chloroplastic	Juglans regia	OAY26903.1
TRINITY_DN15621_c1_g1::TRINITY_DN15621_c1_g1_i6::g.54532::m.54532	0	596	XP_018837506.1	glucosidase 2 subunit beta	Juglans regia	XP_008221020.1
TRINITY_DN15203_c1_g1::TRINITY_DN15203_c1_g1_i8::g.48552::m.48552	0	744	XP_018857609.1	UDP-glucuronic acid decarboxylase 4-like	Juglans regia	XP_018825586.1
TRINITY_DN15205_c1_g1::TRINITY_DN15205_c1_g1_i3::g.48499::m.48499	7,50E-68	214	XP_018830467.1	senescence-specific cysteine protease SAG12-like isoform X1	Juglans regia	XP_018830468.1
TRINITY_DN16773_c2_g1::TRINITY_DN16773_c2_g1_i3::g.73056::m.73056	0	1024	XP_018860642.1	dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1A-like isoform X1	Juglans regia	ONI05428.1
TRINITY_DN16557_c0_g1::TRINITY_DN16557_c0_g1_i4::g.69370::m.69370	0	895	XP_018819975.1	KH domain-containing protein HEN4-like isoform X2	Juglans regia	XP_018819977.1
TRINITY_DN16644_c3_g1::TRINITY_DN16644_c3_g1_i2::g.70216::m.70216	3,73E-51	172	XP_009338303.1	vicilin-like seed storage protein At2g28490	Pyrus x bretschneideri	ONI00561.1
TRINITY_DN15438_c0_g1::TRINITY_DN15438_c0_g1_i13::g.52894::m.52894	0	913	XP_018829261.1	6-phosphogluconate dehydrogenase, decarboxylating 2, chloroplastic	Juglans regia	OAY56407.1

TRINITY_DN12890_c2_g4::TRINITY_DN12890_c2_g4_i2::g.17047::m.17047						
TRINITY_DN19235_c2_g2::TRINITY_DN19235_c2_g2_i3::g.114333::m.114333	1,03E-154	433	KDP26247.1	hypothetical protein JCGZ_22493	Jatropha curcas	XP_012086001.1
TRINITY_DN19013_c0_g2::TRINITY_DN19013_c0_g2_i3::g.110484::m.110484	3,56E-84	248	XP_018819687.1	40S ribosomal protein S14-3-like	Juglans regia	XP_018831277.1
TRINITY_DN14279_c0_g2::TRINITY_DN14279_c0_g2_i1::g.34822::m.34822	0	997	XP_018823517.1	plastidic ATP/ADP-transporter-like	Juglans regia	XP_018827696.1
TRINITY_DN15614_c2_g1::TRINITY_DN15614_c2_g1_i7::g.54755::m.54755	2,24E-92	272	XP_018839125.1	(+)-neomenthol dehydrogenase-like	Juglans regia	XP_018858487.1
TRINITY_DN16133_c0_g4::TRINITY_DN16133_c0_g4_i5::g.62653::m.62653	2,27E-74	231	XP_018814589.1	biotin carboxyl carrier protein of acetyl-CoA carboxylase 2, chloroplastic-like	Juglans regia	XP_018816951.1
TRINITY_DN18799_c1_g2::TRINITY_DN18799_c1_g2_i3::g.106472::m.106472	0	1234	XP_018848760.1	long chain acyl-CoA synthetase 8	Juglans regia	XP_018848761.1
TRINITY_DN19791_c7_g4::TRINITY_DN19791_c7_g4_i2::g.123739::m.123739	1,91E-48	159	KDP43597.1	hypothetical protein JCGZ_16884	Jatropha curcas	KDP43593.1
TRINITY_DN14197_c0_g1::TRINITY_DN14197_c0_g1_i2::g.33493::m.33493	0	870	XP_018839280.1	26S protease regulatory subunit 7A	Juglans regia	XP_018859577.1
TRINITY_DN16625_c3_g1::TRINITY_DN16625_c3_g1_i9::g.70678::m.70678	2,32E-153	427	XP_018849330.1	ras-related protein Rab7	Juglans regia	CAA98171.1
TRINITY_DN11558_c0_g1::TRINITY_DN11558_c0_g1_i1::g.7858::m.7858	7,68E-106	307	ONI06685.1	hypothetical protein PRUPE_5G074400	Prunus persica	XP_020419805.1
TRINITY_DN13381_c2_g2::TRINITY_DN13381_c2_g2_i20::g.23020::m.23020	3,07E-102	294	OIV96039.1	hypothetical protein TanjilG_27143	Lupinus angustifolius	KOM53238.1
TRINITY_DN12837_c2_g6::TRINITY_DN12837_c2_g6_i1::g.16583::m.16583	6,90E-52	164	XP_018853432.1	probable polygalacturonase, partial	Juglans regia	OIW19830.1
TRINITY_DN17167_c2_g1::TRINITY_DN17167_c2_g1_i1::g.79577::m.79577	3,19E-51	170	XP_018852710.1	exopolygalacturonase-like, partial	Juglans regia	XP_018849923.1
TRINITY_DN15923_c1_g1::TRINITY_DN15923_c1_g1_i8::g.59029::m.59029	0	1015	XP_018805990.1	putative SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A member 3-like 1	Juglans regia	XP_008227323.1
TRINITY_DN15294_c5_g3::TRINITY_DN15294_c5_g3_i1::g.49818::m.49818	0	859	XP_018849108.1	glutamate decarboxylase-like	Juglans regia	XP_018823508.1
TRINITY_DN16184_c0_g3::TRINITY_DN16184_c0_g3_i5::g.63369::m.63369	0	698	XP_018851843.1	protein STRICTOSIDINE SYNTHASE-LIKE 3-like	Juglans regia	XP_018844479.1
TRINITY_DN17874_c2_g1::TRINITY_DN17874_c2_g1_i9::g.91168::m.91168	0	1125	XP_018823588.1	transmembrane 9 superfamily member 8-like	Juglans regia	XP_018810860.1
TRINITY_DN18048_c4_g4::TRINITY_DN18048_c4_g4_i5::g.94249::m.94249	0	666	XP_018831343.1	probable ADP-ribosylation factor GTPase-activating protein AGD6	Juglans regia	XP_009374672.1
TRINITY_DN19270_c0_g2::TRINITY_DN19270_c0_g2_i4::g.115031::m.115031	2,34E-131	379	XP_018837139.1	metacaspase-4-like, partial	Juglans regia	ADM52185.1
TRINITY_DN16102_c2_g6::TRINITY_DN16102_c2_g6_i1::g.62197::m.62197	5,18E-126	358	XP_009338145.2	ERBB-3 BINDING PROTEIN 1, partial	Pyrus x bretschneideri	XP_009376423.1

TRINITY_DN14814_c1_g3::TRINITY_DN14814_c1_g3_i3::g.42810::m.42810	0	677	XP_018814645.1	uncharacterized protein LOC108986474	Juglans regia	XP_012072319.1
TRINITY_DN13485_c2_g2::TRINITY_DN13485_c2_g2_i2::g.24426::m.24426	1,99E-153	430	XP_018825134.1	ubiquitin carboxyl-terminal hydrolase 3-like	Juglans regia	XP_018825135.1
TRINITY_DN15075_c1_g2::TRINITY_DN15075_c1_g2_i1::g.46516::m.46516	2,54E-71	212	AAB03538.1	histone H3, partial	Glycine max	AAB03539.1
TRINITY_DN13860_c0_g1::TRINITY_DN13860_c0_g1_i1::g.29366::m.29366	0	875	XP_018837500.1	protein disulfide isomerase-like 1-6	Juglans regia	XP_008228552.1
TRINITY_DN19929_c0_g1::TRINITY_DN19929_c0_g1_i9::g.126183::m.126183	0	739	AGH25534.1	UDP-D-xylose 4-epimerase	Prunus persica	ONI11324.1
TRINITY_DN15983_c2_g1::TRINITY_DN15983_c2_g1_i5::g.59899::m.59899	0	706	XP_004503508.1	mitochondrial-processing peptidase subunit alpha-like	Cicer arietinum	KYP67499.1
TRINITY_DN17158_c8_g2::TRINITY_DN17158_c8_g2_i1::g.79404::m.79404	6,47E-144	407	XP_018817983.1	40S ribosomal protein S6-like	Juglans regia	KDP41410.1
TRINITY_DN16000_c0_g1::TRINITY_DN16000_c0_g1_i10::g.60178::m.60178	0	973	AXB70991.1	acetyl-CoA carboxylase carboxyltransferase beta subunit (chloroplast)	Betula pendula var. carelica	YP_009700057.1
TRINITY_DN15045_c2_g1::TRINITY_DN15045_c2_g1_i7::g.46215::m.46215	0	811	XP_012070239.1	V-type proton ATPase subunit H	Jatropha curcas	ONI25949.1
TRINITY_DN19898_c1_g2::TRINITY_DN19898_c1_g2_i1::g.123971::m.123971	1,94E-118	340	OAY28410.1	hypothetical protein MANES_15G064300	Manihot esculenta	OAY32872.1
TRINITY_DN14630_c1_g1::TRINITY_DN14630_c1_g1_i1::g.39822::m.39822	4,65E-111	321	XP_018805410.1	GTP-binding protein SAR1A-like	Juglans regia	XP_018805411.1
TRINITY_DN15863_c0_g1::TRINITY_DN15863_c0_g1_i12::g.58136::m.58136	9,92E-124	356	XP_018814198.1	putative glucose-6-phosphate 1-epimerase isoform X1	Juglans regia	XP_018814255.1
TRINITY_DN18049_c1_g3::TRINITY_DN18049_c1_g3_i3::g.94352::m.94352	0	829	XP_018858352.1	26S proteasome regulatory subunit 4 homolog B	Juglans regia	XP_018820323.1
TRINITY_DN19093_c2_g2::TRINITY_DN19093_c2_g2_i1::g.111778::m.111778	0	1088	XP_018843513.1	NAD-dependent malic enzyme 62 kDa isoform, mitochondrial	Juglans regia	XP_018818832.1
TRINITY_DN13133_c2_g1::TRINITY_DN13133_c2_g1_i2::g.20342::m.20342	0	702	XP_018847762.1	putative transferase At4g12130, mitochondrial	Juglans regia	XP_008238647.1
TRINITY_DN15315_c0_g1::TRINITY_DN15315_c0_g1_i1::g.50016::m.50016	0	838	XP_018840764.1	chaperonin CPN60-2, mitochondrial-like	Juglans regia	XP_014514640.1
TRINITY_DN13727_c0_g1::TRINITY_DN13727_c0_g1_i1::g.27676::m.27676	0	679	XP_018853198.1	uncharacterized protein LOC109015173 isoform X1	Juglans regia	XP_018817130.1
TRINITY_DN19454_c4_g2::TRINITY_DN19454_c4_g2_i2::g.118225::m.118225	3,07E-104	315	XP_018818310.1	uncharacterized protein LOC108989227 isoform X2	Juglans regia	OAY57847.1
TRINITY_DN15177_c0_g1::TRINITY_DN15177_c0_g1_i2::g.47833::m.47833	0	723	XP_018847636.1	ornithine aminotransferase, mitochondrial-like	Juglans regia	XP_018819712.1
TRINITY_DN13215_c0_g4::TRINITY_DN13215_c0_g4_i6::g.21439::m.21439	1,81E-91	271	XP_018843123.1	eukaryotic translation initiation factor 3 subunit J-like	Juglans regia	OAY46647.1
TRINITY_DN12615_c0_g2::TRINITY_DN12615_c0_g2_i14::g.14340::m.14340	5,06E-32	112	XP_009366604.1	60S acidic ribosomal protein P1-like	Pyrus x bretschneideri	XP_008376223.1
TRINITY_DN15558_c1_g3::TRINITY_DN15558_c1_g3_i8::g.53729::m.53729	0	608	XP_018833037.1	ADP,ATP carrier protein 3, mitochondrial-like	Juglans regia	XP_018833038.1

TRINITY_DN14114_c1_g1::TRINITY_DN14114_c1_g1_i9::g.32755::m.32755	0	821	XP_018823857.1	probable 26S proteasome non-ATPase regulatory subunit 3	Juglans regia	XP_018841498.1
TRINITY_DN18015_c3_g4::TRINITY_DN18015_c3_g4_i1::g.93638::m.93638	0	916	XP_018809797.1	eukaryotic translation initiation factor 2A	Juglans regia	XP_018809798.1
TRINITY_DN19464_c2_g1::TRINITY_DN19464_c2_g1_i6::g.118273::m.118273	1,24E-174	484	XP_018812968.1	14-3-3-like protein GF14 kappa	Juglans regia	XP_018833854.1
TRINITY_DN18481_c3_g4::TRINITY_DN18481_c3_g4_i2::g.101020::m.101020	0	953	XP_018831023.1	endo-1,3(4)-beta-glucanase 1-like	Juglans regia	KYP78466.1
TRINITY_DN16840_c2_g3::TRINITY_DN16840_c2_g3_i5::g.74315::m.74315	0	898	XP_018806299.1	enolase 1, chloroplastic	Juglans regia	XP_008244075.1
TRINITY_DN16558_c0_g1::TRINITY_DN16558_c0_g1_i2::g.69315::m.69315	0	1439	XP_018819162.1	eukaryotic translation initiation factor 4G-like isoform X1	Juglans regia	XP_018819170.1
TRINITY_DN16629_c1_g1::TRINITY_DN16629_c1_g1_i1::g.70763::m.70763	1,66E-07	50,8	AER13137.1	DHN1	Corylus avellana	BAA19768.1
TRINITY_DN18667_c1_g2::TRINITY_DN18667_c1_g2_i6::g.104311::m.104311	0	552	XP_018840009.1	ER membrane protein complex subunit 2	Juglans regia	ONI04815.1
TRINITY_DN19979_c5_g7::TRINITY_DN19979_c5_g7_i1::g.127021::m.127021	1,94E-77	236	XP_018811967.1	probable aldo-keto reductase 1	Juglans regia	XP_018854242.1
TRINITY_DN17020_c0_g1::TRINITY_DN17020_c0_g1_i5::g.77212::m.77212	0	579	ONH93127.1	hypothetical protein PRUPE_8G214700	Prunus persica	ONH93128.1
TRINITY_DN17027_c2_g2::TRINITY_DN17027_c2_g2_i1::g.77239::m.77239	4,96E-90	274	ONI14054.1	hypothetical protein PRUPE_4G259200	Prunus persica	AIX97814.1
TRINITY_DN19286_c0_g1::TRINITY_DN19286_c0_g1_i3::g.115330::m.115330	0	1451	XP_018847511.1	nudix hydrolase 3 isoform X1	Juglans regia	XP_018847513.1
TRINITY_DN16223_c1_g2::TRINITY_DN16223_c1_g2_i2::g.64137::m.64137	1,12E-94	275	XP_018848789.1	peroxiredoxin-2B	Juglans regia	XP_018857900.1
TRINITY_DN18521_c6_g6::TRINITY_DN18521_c6_g6_i4::g.101904::m.101904	2,35E-75	230	XP_018831704.1	peroxidase 65-like isoform X2	Juglans regia	XP_018831703.1
TRINITY_DN17250_c2_g1::TRINITY_DN17250_c2_g1_i27::g.80938::m.80938	2,22E-110	316	XP_018841912.1	coatomer subunit zeta-1-like	Juglans regia	XP_008225364.1
TRINITY_DN14788_c0_g4::TRINITY_DN14788_c0_g4_i2::g.42252::m.42252	0	1229	XP_018848499.1	threonine--tRNA ligase, mitochondrial 1-like	Juglans regia	XP_012092067.1
TRINITY_DN16410_c3_g3::TRINITY_DN16410_c3_g3_i5::g.67165::m.67165	0	559	ACU24192.1	unknown	Glycine max	KHN36711.1
TRINITY_DN14802_c2_g1::TRINITY_DN14802_c2_g1_i3::g.42628::m.42628	6,06E-147	416	KRH60670.1	hypothetical protein GLYMA_04G002300	Glycine max	XP_003522341.1
TRINITY_DN14967_c2_g1::TRINITY_DN14967_c2_g1_i8::g.44945::m.44945	1,26E-140	399	XP_018836119.1	reticulon-like protein B5	Juglans regia	XP_018845099.1
TRINITY_DN16828_c0_g2::TRINITY_DN16828_c0_g2_i1::g.74105::m.74105	4,29E-129	374	XP_018832807.1	velvet complex subunit B	Juglans regia	OAY44411.1
TRINITY_DN16105_c7_g3::TRINITY_DN16105_c7_g3_i3::g.62193::m.62193	5,99E-129	367	XP_018825107.1	vesicle-associated protein 2-1-like isoform X3	Juglans regia	XP_018825108.1
TRINITY_DN15700_c1_g1::TRINITY_DN15700_c1_g1_i3::g.54890::m.54890	0	1689	XP_018842577.1	ER membrane protein complex subunit 1-like	Juglans regia	XP_018845533.1

TRINITY_DN19704_c0_g2::TRINITY_DN19704_c0_g2_i1::g.122551::m.122551	1,08E-115	332	KOM26552.1	hypothetical protein LR48_Vigan293s000300	Vigna angularis	BAT84846.1
TRINITY_DN15979_c0_g1::TRINITY_DN15979_c0_g1_i3::g.59847::m.59847	0	818	XP_018822783.1	pyruvate dehydrogenase E1 component subunit alpha-3, chloroplastic	Juglans regia	OAY48935.1
TRINITY_DN14286_c1_g1::TRINITY_DN14286_c1_g1_i4::g.34874::m.34874	2,61E-120	342	XP_009350939.1	probable signal peptidase complex subunit 2 isoform X1	Pyrus x bretschneideri	XP_018501761.1
TRINITY_DN16521_c2_g4::TRINITY_DN16521_c2_g4_i1::g.68855::m.68855	1,92E-74	220	XP_018828963.1	60S ribosomal protein L30	Juglans regia	XP_018849639.1
TRINITY_DN18419_c1_g1::TRINITY_DN18419_c1_g1_i5::g.100150::m.100150	0	2144	XP_018818858.1	carbamoyl-phosphate synthase large chain, chloroplastic	Juglans regia	XP_018818859.1
TRINITY_DN14469_c0_g1::TRINITY_DN14469_c0_g1_i2::g.37789::m.37789	0	695	ONI32296.1	hypothetical protein PRUPE_1G359200	Prunus persica	XP_020423207.1
TRINITY_DN19627_c1_g1::TRINITY_DN19627_c1_g1_i1::g.121154::m.121154	0	1417	XP_018817804.1	leucine--tRNA ligase, cytoplasmic isoform X1	Juglans regia	XP_018817805.1
TRINITY_DN16420_c0_g2::TRINITY_DN16420_c0_g2_i4::g.67379::m.67379	3,40E-144	415	ADR70876.1	eukaryotic translation elongation factor 1B gamma-subunit	Hevea brasiliensis	XP_018817874.1
TRINITY_DN12422_c0_g1::TRINITY_DN12422_c0_g1_i2::g.12726::m.12726	1,89E-146	414	XP_018846809.1	haloacid dehalogenase-like hydrolase domain-containing protein At2g33255	Juglans regia	XP_012077642.1
TRINITY_DN16342_c0_g1::TRINITY_DN16342_c0_g1_i1::g.66087::m.66087	0	899	XP_018844904.1	aldehyde dehydrogenase family 7 member A1 isoform X1	Juglans regia	XP_018844905.1
TRINITY_DN14920_c0_g1::TRINITY_DN14920_c0_g1_i8::g.44465::m.44465	0	665	XP_018851637.1	fructose-1,6-bisphosphatase, cytosolic	Juglans regia	KDP42999.1
TRINITY_DN7453_c0_g1::TRINITY_DN7453_c0_g1_i1::g.2128::m.2128	1,38E-79	234	OAY55416.1	hypothetical protein MANES_03G152300	Manihot esculenta	KDP20335.1
TRINITY_DN15558_c1_g3::TRINITY_DN15558_c1_g3_i7::g.53727::m.53727	0	607	XP_018833037.1	ADP,ATP carrier protein 3, mitochondrial-like	Juglans regia	XP_018833038.1
TRINITY_DN17792_c0_g2::TRINITY_DN17792_c0_g2_i6::g.89728::m.89728	2,18E-68	214	CAA06308.1	cytosolic fructose-1,6-bisphosphate aldolase	Cicer arietinum	NP_001265896.1
TRINITY_DN19733_c2_g1::TRINITY_DN19733_c2_g1_i4::g.123110::m.123110	0	1941	XP_018828011.1	ABC transporter C family member 2-like	Juglans regia	AIU41637.1
TRINITY_DN14635_c2_g1::TRINITY_DN14635_c2_g1_i1::g.39353::m.39353	0	1011	XP_018845552.1	eukaryotic translation initiation factor 3 subunit L-like	Juglans regia	KDP34205.1
TRINITY_DN13787_c3_g4::TRINITY_DN13787_c3_g4_i2::g.28260::m.28260	0	515	XP_018835940.1	mitochondrial outer membrane protein porin of 34 kDa-like	Juglans regia	XP_018823011.1
TRINITY_DN17621_c1_g3::TRINITY_DN17621_c1_g3_i2::g.87259::m.87259	0	739	XP_018815635.1	basic leucine zipper and W2 domain-containing protein 2-like	Juglans regia	OAY34237.1
TRINITY_DN9267_c0_g1::TRINITY_DN9267_c0_g1_i1::g.3260::m.3260	0	1411	XP_018824584.1	kinesin-like protein KIN-5D	Juglans regia	XP_018824585.1
TRINITY_DN18406_c4_g1::TRINITY_DN18406_c4_g1_i5::g.99964::m.99964	0	1406	XP_018811234.1	dynamin-related protein 3A	Juglans regia	XP_018826873.1
TRINITY_DN19605_c0_g3::TRINITY_DN19605_c0_g3_i3::g.120913::m.120913	0	766	XP_014504491.1	heat shock protein 90-6, mitochondrial	Vigna radiata var. radiata	KYP48152.1
TRINITY_DN18631_c1_g1::TRINITY_DN18631_c1_g1_i3::g.103586::m.103586	0	601	XP_018822513.1	putative leucine-rich repeat receptor-like serine/threonine-protein kinase At2g24130	Juglans regia	XP_018851272.1

TRINITY_DN18466_c3_g1::TRINITY_DN18466_c3_g1_i12::g.101047::m.101047						
TRINITY_DN13201_c1_g1::TRINITY_DN13201_c1_g1_i6::g.20932::m.20932	0	575	XP_018843883.1	dnaJ protein ERDJ3B-like isoform X1	Juglans regia	XP_018843884.1
TRINITY_DN19814_c1_g3::TRINITY_DN19814_c1_g3_i1::g.124097::m.124097	7,12E-98	291	OAY23139.1	hypothetical protein MANES_18G054700	Manihot esculenta	AIW63722.1
TRINITY_DN16248_c1_g2::TRINITY_DN16248_c1_g2_i1::g.64537::m.64537	2,91E-35	126	XP_018838677.1	inositol-phosphate phosphatase-like	Juglans regia	XP_015958999.1
TRINITY_DN17313_c1_g1::TRINITY_DN17313_c1_g1_i12::g.81814::m.81814	0	530	XP_018815020.1	protein-tyrosine-phosphatase PTP1 isoform X1	Juglans regia	XP_018815022.1
TRINITY_DN10225_c0_g1::TRINITY_DN10225_c0_g1_i1::g.4474::m.4474	1,82E-166	465	XP_018813088.1	2-Cys peroxiredoxin BAS1, chloroplastic-like	Juglans regia	XP_018851224.1
TRINITY_DN13652_c1_g1::TRINITY_DN13652_c1_g1_i1::g.26699::m.26699						
TRINITY_DN16192_c0_g2::TRINITY_DN16192_c0_g2_i1::g.63470::m.63470	0	1057	XP_008240342.1	dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit STT3B	Prunus mume	ONI09533.1
TRINITY_DN18875_c2_g2::TRINITY_DN18875_c2_g2_i3::g.107932::m.107932	0	662	XP_008240928.1	actin-like	Prunus mume	XP_008240929.1
TRINITY_DN13691_c2_g1::TRINITY_DN13691_c2_g1_i3::g.27222::m.27222	2,88E-133	378	XP_018842173.1	uncharacterized protein LOC109007090	Juglans regia	ONI35859.1
TRINITY_DN15416_c2_g2::TRINITY_DN15416_c2_g2_i3::g.51536::m.51536	8,37E-146	407	XP_018839374.1	proteasome subunit beta type-2-A	Juglans regia	XP_018812168.1
TRINITY_DN12883_c0_g1::TRINITY_DN12883_c0_g1_i3::g.16877::m.16877	4,38E-134	380	XP_018858784.1	lactoylglutathione lyase isoform X1	Juglans regia	XP_008385523.1
TRINITY_DN19511_c2_g3::TRINITY_DN19511_c2_g3_i2::g.119040::m.119040	7,43E-114	323	XP_018815794.1	60S ribosomal protein L21-1-like	Juglans regia	KDP21892.1
TRINITY_DN11191_c0_g1::TRINITY_DN11191_c0_g1_i2::g.6575::m.6575	1,20E-76	228	XP_008354935.1	uncharacterized protein LOC103418606	Malus domestica	XP_018504852.1
TRINITY_DN15949_c0_g1::TRINITY_DN15949_c0_g1_i6::g.59510::m.59510	0	1131	XP_018812043.1	large proline-rich protein BAG6-like isoform X1	Juglans regia	XP_018812044.1
TRINITY_DN15397_c1_g1::TRINITY_DN15397_c1_g1_i5::g.51177::m.51177	0	1118	XP_018817514.1	transmembrane 9 superfamily member 7-like	Juglans regia	KHN39302.1
TRINITY_DN11231_c0_g1::TRINITY_DN11231_c0_g1_i2::g.6700::m.6700	0	1088	XP_018827094.1	dihydroxy-acid dehydratase, chloroplastic-like	Juglans regia	XP_008224581.1
TRINITY_DN14649_c1_g6::TRINITY_DN14649_c1_g6_i3::g.39965::m.39965	4,56E-147	413	XP_018811310.1	adenylate kinase 4	Juglans regia	OIV98165.1
TRINITY_DN13692_c0_g1::TRINITY_DN13692_c0_g1_i6::g.26626::m.26626	0	657	XP_018830936.1	ADP,ATP carrier protein, mitochondrial	Juglans regia	XP_018830937.1
TRINITY_DN12789_c1_g2::TRINITY_DN12789_c1_g2_i25::g.15964::m.15964	1,49E-51	167	XP_018850680.1	tropinone reductase homolog At5g06060-like	Juglans regia	XP_018841297.1
TRINITY_DN17697_c2_g1::TRINITY_DN17697_c2_g1_i5::g.88410::m.88410	0	1256	XP_018848022.1	sulfite reductase [ferredoxin], chloroplastic	Juglans regia	XP_018830969.1
TRINITY_DN18388_c1_g1::TRINITY_DN18388_c1_g1_i7::g.99758::m.99758						

TRINITY_DN19535_c2_g2::TRINITY_DN19535_c2_g2_i7::g.119393::m.119393	0	539	XP_018857224.1	cycloartenol-C-24-methyltransferase	Juglans regia	XP_014499710.1
TRINITY_DN11345_c0_g1::TRINITY_DN11345_c0_g1_i1::g.7064::m.7064	0	508	KDP33559.1	hypothetical protein JCGZ_07130	Jatropha curcas	XP_012076496.1
TRINITY_DN14591_c4_g1::TRINITY_DN14591_c4_g1_i9::g.39216::m.39216	0	877	XP_018807956.1	serine hydroxymethyltransferase, mitochondrial-like	Juglans regia	OAY23149.1
TRINITY_DN14453_c2_g1::TRINITY_DN14453_c2_g1_i6::g.37399::m.37399	3,46E-96	284	XP_018815776.1	pirin-like protein	Juglans regia	KDP42878.1
TRINITY_DN16526_c1_g2::TRINITY_DN16526_c1_g2_i8::g.69034::m.69034	1,27E-123	350	XP_018818615.1	1,2-dihydroxy-3-keto-5-methylthiopentene dioxygenase 2	Juglans regia	XP_009343958.1
TRINITY_DN10373_c0_g1::TRINITY_DN10373_c0_g1_i1::g.4691::m.4691	9,65E-75	226	XP_018807798.1	uncharacterized protein LOC108981167	Juglans regia	XP_018807799.1
TRINITY_DN19332_c2_g1::TRINITY_DN19332_c2_g1_i2::g.116131::m.116131	0	663	XP_018860760.1	probable pectinesterase/pectinesterase inhibitor 21	Juglans regia	KDP23449.1
TRINITY_DN14971_c0_g1::TRINITY_DN14971_c0_g1_i2::g.44966::m.44966	0	604	XP_018823086.1	probable bifunctional methylthioribulose-1-phosphate dehydratase/enolase-phosphatase E1 isoform X1	Juglans regia	XP_018823094.1
TRINITY_DN16859_c0_g3::TRINITY_DN16859_c0_g3_i1::g.74469::m.74469	1,12E-72	220	XP_018810863.1	26S proteasome non-ATPase regulatory subunit 9	Juglans regia	XP_019432553.1
TRINITY_DN16399_c1_g2::TRINITY_DN16399_c1_g2_i5::g.67010::m.67010	0	830	XP_018858191.1	citrate synthase, mitochondrial	Juglans regia	XP_018858196.1
TRINITY_DN13466_c1_g1::TRINITY_DN13466_c1_g1_i2::g.24484::m.24484	1,22E-143	402	XP_008224495.1	60S ribosomal protein L13a-4	Prunus mume	ONI26146.1
TRINITY_DN18053_c4_g1::TRINITY_DN18053_c4_g1_i4::g.94304::m.94304	0	649	XP_018807103.1	uncharacterized protein LOC108980590 isoform X1	Juglans regia	XP_018807106.1
TRINITY_DN18818_c1_g1::TRINITY_DN18818_c1_g1_i7::g.106901::m.106901	0	654	XP_018838617.1	coproporphyrinogen-III oxidase 1, chloroplastic	Juglans regia	XP_012091240.1
TRINITY_DN14578_c1_g1::TRINITY_DN14578_c1_g1_i8::g.39125::m.39125	0	769	XP_018832890.1	S-adenosylmethionine synthase 1	Juglans regia	XP_009363082.1
TRINITY_DN13918_c1_g1::TRINITY_DN13918_c1_g1_i8::g.30345::m.30345	0	1643	XP_018860275.1	26S proteasome non-ATPase regulatory subunit 1 homolog A	Juglans regia	XP_018837135.1
TRINITY_DN18543_c1_g3::TRINITY_DN18543_c1_g3_i1::g.101857::m.101857	0	1441	XP_018851882.1	ubiquitin carboxyl-terminal hydrolase 14 isoform X1	Juglans regia	OAY54976.1
TRINITY_DN17130_c2_g2::TRINITY_DN17130_c2_g2_i6::g.79154::m.79154	6,26E-76	257	XP_018835918.1	myb-like protein X	Juglans regia	XP_018835918.1
TRINITY_DN13127_c0_g1::TRINITY_DN13127_c0_g1_i1::g.20146::m.20146	0	718	XP_018805499.1	GDP-mannose 4,6 dehydratase 1-like	Juglans regia	OAY57517.1
TRINITY_DN11423_c0_g1::TRINITY_DN11423_c0_g1_i1::g.7308::m.7308	1,75E-123	352	XP_008228618.1	60S ribosomal protein L10a	Prunus mume	ONI01246.1
TRINITY_DN17687_c2_g1::TRINITY_DN17687_c2_g1_i6::g.88326::m.88326	0	576	XP_018856841.1	quinone oxidoreductase PIG3-like	Juglans regia	XP_016179633.1
TRINITY_DN19126_c0_g1::TRINITY_DN19126_c0_g1_i4::g.112486::m.112486	0	1146	XP_018852174.1	probable methyltransferase PMT21	Juglans regia	XP_018852176.1

TRINITY_DN14181_c0_g3::TRINITY_DN14181_c0_g3_i1::g.33572::m.33572	0	1027	XP_018826910.1	methylmalonate-semialdehyde dehydrogenase [acylating], mitochondrial	Juglans regia	XP_012074593.1
TRINITY_DN14198_c0_g1::TRINITY_DN14198_c0_g1_i5::g.33635::m.33635	2,18E-136	411	XP_018815969.1	granule-bound starch synthase 2, chloroplastic/amyloplastic-like	Juglans regia	XP_018813997.1
TRINITY_DN15488_c1_g5::TRINITY_DN15488_c1_g5_i3::g.52738::m.52738	0	651	XP_018829624.1	naringenin,2-oxoglutarate 3-dioxygenase	Juglans regia	ACR47976.1
TRINITY_DN17665_c0_g2::TRINITY_DN17665_c0_g2_i3::g.87796::m.87796	4,29E-65	200	XP_008218606.1	glutathione S-transferase zeta class-like isoform X1	Prunus mume	ADZ05465.1
TRINITY_DN11049_c0_g1::TRINITY_DN11049_c0_g1_i1::g.6211::m.6211	2,19E-86	253	OAY41520.1	hypothetical protein MANES_09G108600	Manihot esculenta	XP_018826192.1
TRINITY_DN18004_c1_g11::TRINITY_DN18004_c1_g11_i1::g.93466::m.93466	1,49E-27	106	XP_018835429.1	glutathione S-transferase F13	Juglans regia	XP_009365718.1
TRINITY_DN17396_c1_g1::TRINITY_DN17396_c1_g1_i2::g.82990::m.82990	0	2737	XP_018835518.1	UDP-glucose:glycoprotein glucosyltransferase	Juglans regia	XP_009348356.1
TRINITY_DN16113_c1_g1::TRINITY_DN16113_c1_g1_i2::g.62243::m.62243	0	996	XP_018821632.1	chaperonin CPN60-like 2, mitochondrial isoform X1	Juglans regia	XP_018821633.1
TRINITY_DN12537_c5_g1::TRINITY_DN12537_c5_g1_i1::g.13612::m.13612	3,29E-40	136	ONI12324.1	hypothetical protein PRUPE_4G157300	Prunus persica	XP_020417826.1
TRINITY_DN13740_c0_g1::TRINITY_DN13740_c0_g1_i2::g.27757::m.27757	0	821	XP_018834951.1	eukaryotic peptide chain release factor subunit 1-3-like	Juglans regia	XP_018834952.1
TRINITY_DN13460_c3_g2::TRINITY_DN13460_c3_g2_i3::g.24327::m.24327	4,29E-165	473	AHM02305.1	asparagine synthetase	Prunus persica	ONH99872.1
TRINITY_DN14396_c0_g2::TRINITY_DN14396_c0_g2_i1::g.35371::m.35371	1,16E-82	244	XP_018834168.1	uncharacterized protein LOC109001373	Juglans regia	XP_019441142.1
TRINITY_DN18313_c3_g2::TRINITY_DN18313_c3_g2_i2::g.98848::m.98848	0	763	XP_018829218.1	aminoacylase-1	Juglans regia	XP_009340792.1
TRINITY_DN19187_c0_g2::TRINITY_DN19187_c0_g2_i3::g.113547::m.113547	1,32E-70	212	XP_008353324.1	DNA damage-inducible protein 1-like	Malus domestica	XP_009339277.1
TRINITY_DN10969_c0_g1::TRINITY_DN10969_c0_g1_i1::g.5933::m.5933	0	844	XP_018838329.1	L-ascorbate oxidase homolog	Juglans regia	XP_018812045.1
TRINITY_DN14875_c0_g2::TRINITY_DN14875_c0_g2_i7::g.43614::m.43614	0	935	XP_018857611.1	eukaryotic translation initiation factor 2 subunit gamma-like	Juglans regia	XP_018857612.1
TRINITY_DN16965_c3_g1::TRINITY_DN16965_c3_g1_i6::g.76283::m.76283	0	1018	XP_018821933.1	indole-3-acetic acid-amido synthetase GH3.6-like	Juglans regia	KYP44609.1
TRINITY_DN16752_c9_g1::TRINITY_DN16752_c9_g1_i5::g.72819::m.72819	0	1014	XP_018825763.1	importin subunit alpha-2-like isoform X2	Juglans regia	XP_018812785.1
TRINITY_DN17906_c0_g1::TRINITY_DN17906_c0_g1_i4::g.91749::m.91749	0	630	XP_018829157.1	beta-adaptin-like protein C	Juglans regia	XP_020230079.1
TRINITY_DN10627_c0_g1::TRINITY_DN10627_c0_g1_i1::g.5151::m.5151	0	1117	XP_018825886.1	pyruvate decarboxylase 1	Juglans regia	XP_018826224.1
TRINITY_DN11182_c0_g1::TRINITY_DN11182_c0_g1_i3::g.6546::m.6546	1,80E-137	397	XP_018827577.1	SAL1 phosphatase-like isoform X2	Juglans regia	XP_018827576.1
TRINITY_DN14268_c0_g1::TRINITY_DN14268_c0_g1_i4::g.34610::m.34610	0	787	XP_018845323.1	isovaleryl-CoA dehydrogenase, mitochondrial	Juglans regia	XP_009347036.1

TRINITY_DN19877_c2_g3::TRINITY_DN19877_c2_g3_i1::g.125021::m.125021	0	914	XP_018857649.1	NADH dehydrogenase [ubiquinone] flavoprotein 1, mitochondrial-like	Juglans regia	XP_018836688.1
TRINITY_DN17530_c3_g12::TRINITY_DN17530_c3_g12_i1::g.85464::m.85464	1,32E-27	103	CBX33398.1	atp8 (mitochondrion)	Malus domestica	YP_006666136.1
TRINITY_DN14410_c0_g6::TRINITY_DN14410_c0_g6_i1::g.36618::m.36618	5,80E-79	231	CAB66329.1	defender against apoptotic cell death	Betula pendula	Q9M3T9.1
TRINITY_DN12098_c3_g1::TRINITY_DN12098_c3_g1_i8::g.10503::m.10503	1,81E-100	295	ONH90115.1	hypothetical protein PRUPE_8G035600	Prunus persica	ONH90116.1
TRINITY_DN17739_c0_g2::TRINITY_DN17739_c0_g2_i3::g.89048::m.89048	1,07E-77	233	XP_018859887.1	uncharacterized protein LOC109021657	Juglans regia	XP_008224024.1
TRINITY_DN14157_c1_g1::TRINITY_DN14157_c1_g1_i4::g.33107::m.33107	3,43E-127	374	XP_018859875.1	glycine-rich RNA-binding protein 3, mitochondrial	Juglans regia	XP_016649563.1
TRINITY_DN18293_c3_g1::TRINITY_DN18293_c3_g1_i3::g.98277::m.98277	2,21E-33	118	XP_008377491.1	ER membrane protein complex subunit 4-like	Malus domestica	XP_009359143.1
TRINITY_DN18745_c0_g3::TRINITY_DN18745_c0_g3_i8::g.105419::m.105419	0	659	XP_018812652.1	heterogeneous nuclear ribonucleoprotein 1-like	Juglans regia	XP_018812657.1
TRINITY_DN12590_c2_g2::TRINITY_DN12590_c2_g2_i2::g.13982::m.13982	1,15E-79	239	XP_018860616.1	protein canopy-1	Juglans regia	XP_008237962.1
TRINITY_DN14010_c5_g1::TRINITY_DN14010_c5_g1_i2::g.31420::m.31420	1,76E-68	204	XP_008234218.1	60S ribosomal protein L36-3-like	Prunus mume	XP_004496553.1
TRINITY_DN15598_c2_g1::TRINITY_DN15598_c2_g1_i7::g.54284::m.54284	0	563	XP_020218346.1	26S proteasome non-ATPase regulatory subunit 4 homolog	Cajanus cajan	XP_020227721.1
TRINITY_DN11779_c0_g1::TRINITY_DN11779_c0_g1_i1::g.8787::m.8787	0	783	XP_018844342.1	3-isopropylmalate dehydrogenase 2, chloroplastic-like	Juglans regia	ONI16361.1
TRINITY_DN13676_c3_g1::TRINITY_DN13676_c3_g1_i3::g.27135::m.27135	1,76E-55	174	XP_012088149.1	uncharacterized protein LOC105646819	Jatropha curcas	KDP24365.1
TRINITY_DN18865_c1_g1::TRINITY_DN18865_c1_g1_i8::g.107763::m.107763	5,33E-166	467	ONI35507.1	hypothetical protein PRUPE_1G540200	Prunus persica	XP_007222567.1
TRINITY_DN15886_c0_g2::TRINITY_DN15886_c0_g2_i6::g.58296::m.58296	0	1069	XP_018842853.1	soluble starch synthase 1, chloroplastic/amyloplastic	Juglans regia	ONI25554.1
TRINITY_DN11909_c0_g1::TRINITY_DN11909_c0_g1_i2::g.9470::m.9470	0	854	XP_018841219.1	uncharacterized protein LOC109006407	Juglans regia	ONI23255.1
TRINITY_DN16963_c2_g3::TRINITY_DN16963_c2_g3_i1::g.76239::m.76239	0	629	XP_008364974.1	26S protease regulatory subunit 10B homolog A	Malus domestica	XP_009372983.1
TRINITY_DN12323_c0_g2::TRINITY_DN12323_c0_g2_i3::g.11963::m.11963	1,18E-98	283	XP_008222957.1	40S ribosomal protein S16	Prunus mume	ONI28680.1
TRINITY_DN13869_c6_g1::TRINITY_DN13869_c6_g1_i2::g.29653::m.29653	0	552	XP_018835354.1	uricase-2 isozyme 2	Juglans regia	CAB77205.1
TRINITY_DN18287_c3_g1::TRINITY_DN18287_c3_g1_i2::g.98102::m.98102	4,08E-137	394	XP_018845913.1	cytidine deaminase 1-like	Juglans regia	ONH97802.1
TRINITY_DN19305_c2_g3::TRINITY_DN19305_c2_g3_i4::g.115690::m.115690	4,07E-81	250	XP_018857311.1	lysine histidine transporter 2-like	Juglans regia	XP_018857319.1
TRINITY_DN15008_c0_g3::TRINITY_DN15008_c0_g3_i2::g.45738::m.45738	0	1219	XP_018831592.1	ATPase 11, plasma membrane-type	Juglans regia	XP_018831860.1

TRINITY_DN18232_c0_g1::TRINITY_DN18232_c0_g1_i6::g.97390::m.97390	0	2248	XP_018806543.1	isoleucine--tRNA ligase, cytoplasmic	Juglans regia	ONI29193.1
TRINITY_DN17493_c2_g1::TRINITY_DN17493_c2_g1_i7::g.84644::m.84644	0	917	XP_008226002.1	succinate-semialdehyde dehydrogenase, mitochondrial	Prunus mume	ONI11823.1
TRINITY_DN11669_c0_g1::TRINITY_DN11669_c0_g1_i1::g.8337::m.8337	2,48E-84	249	XP_018824954.1	40S ribosomal protein S24-1-like	Juglans regia	XP_008218192.1
TRINITY_DN18124_c0_g4::TRINITY_DN18124_c0_g4_i1::g.95606::m.95606	1,08E-173	483	XP_019464492.1	26S proteasome non-ATPase regulatory subunit 8 homolog A-like	Lupinus angustifolius	XP_019464493.1
TRINITY_DN11643_c0_g1::TRINITY_DN11643_c0_g1_i1::g.8230::m.8230	4,34E-138	394	XP_018838151.1	26S proteasome non-ATPase regulatory subunit 14 homolog	Juglans regia	XP_018857189.1
TRINITY_DN17921_c3_g2::TRINITY_DN17921_c3_g2_i1::g.92117::m.92117	0	6227	XP_018859288.1	E3 ubiquitin-protein ligase UPL2-like	Juglans regia	XP_018848705.1
TRINITY_DN17515_c0_g1::TRINITY_DN17515_c0_g1_i3::g.85102::m.85102	0	1153	XP_018834612.1	formate--tetrahydrofolate ligase	Juglans regia	OAY54628.1
TRINITY_DN17501_c0_g2::TRINITY_DN17501_c0_g2_i6::g.84659::m.84659	0	1165	XP_018806016.1	vacuolar-sorting receptor 3-like	Juglans regia	XP_018846135.1
TRINITY_DN11905_c0_g1::TRINITY_DN11905_c0_g1_i3::g.9416::m.9416	0	610	XP_018815797.1	mitochondrial import receptor subunit TOM40-1-like	Juglans regia	XP_018824435.1
TRINITY_DN16017_c1_g2::TRINITY_DN16017_c1_g2_i2::g.60617::m.60617	0	810	XP_018844108.1	polyadenylate-binding protein 7 isoform X1	Juglans regia	XP_018844108.1
TRINITY_DN10830_c0_g1::TRINITY_DN10830_c0_g1_i1::g.5629::m.5629	3,05E-118	340	XP_018860721.1	glutathione S-transferase DHAR2-like	Juglans regia	XP_018860724.1
TRINITY_DN13736_c4_g2::TRINITY_DN13736_c4_g2_i5::g.27391::m.27391	5,50E-179	498	XP_018820284.1	aldo-keto reductase family 4 member C9-like	Juglans regia	XP_018820285.1
TRINITY_DN19177_c0_g1::TRINITY_DN19177_c0_g1_i1::g.113288::m.113288	0	1139	XP_018806637.1	glutamate--tRNA ligase, cytoplasmic	Juglans regia	XP_018806638.1
TRINITY_DN19354_c2_g2::TRINITY_DN19354_c2_g2_i2::g.116436::m.116436	1,02E-64	200	XP_018835464.1	glutathione S-transferase-like	Juglans regia	XP_018835471.1
TRINITY_DN17688_c2_g6::TRINITY_DN17688_c2_g6_i1::g.88272::m.88272	3,69E-50	169	XP_018834200.1	endoglucanase 9-like	Juglans regia	XP_018834199.1
TRINITY_DN16306_c1_g1::TRINITY_DN16306_c1_g1_i3::g.65480::m.65480	2,20E-61	193	XP_018822871.1	strigolactone esterase D14	Juglans regia	XP_018838099.1
TRINITY_DN18894_c1_g3::TRINITY_DN18894_c1_g3_i1::g.108226::m.108226	3,41E-170	478	XP_018810152.1	protein BTR1-like isoform X2	Juglans regia	XP_008232049.1
TRINITY_DN14391_c2_g3::TRINITY_DN14391_c2_g3_i1::g.36280::m.36280	4,39E-56	181	XP_018818750.1	GDSL esterase/lipase At3g48460-like	Juglans regia	OAY34410.1
TRINITY_DN12367_c0_g1::TRINITY_DN12367_c0_g1_i3::g.12189::m.12189	0	767	XP_018850112.1	uncharacterized protein LOC109012766	Juglans regia	KHN17427.1
TRINITY_DN14985_c3_g2::TRINITY_DN14985_c3_g2_i1::g.45232::m.45232	0	1264	ONH97993.1	hypothetical protein PRUPE_7G222300	Prunus persica	ONH97994.1
TRINITY_DN14724_c2_g1::TRINITY_DN14724_c2_g1_i1::g.41239::m.41239	0	1634	XP_018834214.1	bifunctional aspartokinase/homoserine dehydrogenase 1, chloroplastic-like	Juglans regia	XP_018831022.1
TRINITY_DN10431_c0_g1::TRINITY_DN10431_c0_g1_i2::g.4811::m.4811	8,03E-119	343	XP_018815442.1	mitochondrial import receptor subunit TOM20-like	Juglans regia	XP_018860144.1

TRINITY_DN12116_c0_g1::TRINITY_DN12116_c0_g1_i3::g.10615::m.10615	2,92E-71	216	AAT67997.1	1-cys peroxiredoxin	Medicago truncatula	Q6E2Z6.1
TRINITY_DN12248_c0_g2::TRINITY_DN12248_c0_g2_i1::g.11152::m.11152	0	527	ONH91068.1	hypothetical protein PRUPE_8G091300	Prunus persica	ONH91069.1
TRINITY_DN14430_c0_g1::TRINITY_DN14430_c0_g1_i7::g.37424::m.37424	0	974	XP_018846380.1	glucose-6-phosphate 1-dehydrogenase, cytoplasmic isoform-like isoform X2	Juglans regia	XP_018846377.1
TRINITY_DN17797_c0_g1::TRINITY_DN17797_c0_g1_i20::g.88479::m.88479	9,03E-102	308	XP_009378285.1	uncharacterized protein LOC103966791	Pyrus x bretschneideri	XP_008229423.1
TRINITY_DN16328_c4_g1::TRINITY_DN16328_c4_g1_i3::g.65859::m.65859						
TRINITY_DN14897_c3_g5::TRINITY_DN14897_c3_g5_i1::g.43938::m.43938	1,22E-56	177	OAY45814.1	hypothetical protein MANES_07G093700	Manihot esculenta	XP_016183223.1
TRINITY_DN14545_c0_g1::TRINITY_DN14545_c0_g1_i2::g.38714::m.38714	1,47E-153	435	XP_009357480.2	LOW QUALITY PROTEIN: proline synthase co-transcribed bacterial homolog protein-like	Pyrus x bretschneideri	XP_008224704.1
TRINITY_DN18713_c3_g1::TRINITY_DN18713_c3_g1_i2::g.105054::m.105054	1,60E-106	315	XP_018849508.1	protein DJ-1 homolog B-like	Juglans regia	XP_018849508.1
TRINITY_DN13940_c4_g1::TRINITY_DN13940_c4_g1_i3::g.30598::m.30598						
TRINITY_DN18184_c1_g1::TRINITY_DN18184_c1_g1_i15::g.96527::m.96527	7,76E-48	155	KRH19729.1	hypothetical protein GLYMA_13G132400	Glycine max	KRH19730.1
TRINITY_DN17484_c0_g3::TRINITY_DN17484_c0_g3_i1::g.84435::m.84435	8,47E-127	362	ALP70511.1	Fe-S cluster assembly protein 20	Prunus persica var. persica	ONI21671.1
TRINITY_DN13721_c0_g1::TRINITY_DN13721_c0_g1_i7::g.27621::m.27621	0	909	XP_018816803.1	transmembrane 9 superfamily member 3-like	Juglans regia	ONI31917.1
TRINITY_DN17006_c0_g4::TRINITY_DN17006_c0_g4_i2::g.76859::m.76859	8,20E-80	237	XP_018833404.1	40S ribosomal protein S12-like	Juglans regia	XP_018835263.1
TRINITY_DN13463_c1_g1::TRINITY_DN13463_c1_g1_i3::g.24177::m.24177	8,60E-127	363	XP_018809229.1	extradiol ring-cleavage dioxygenase-like	Juglans regia	XP_018844729.1
TRINITY_DN17769_c1_g1::TRINITY_DN17769_c1_g1_i1::g.89345::m.89345						
TRINITY_DN18331_c2_g5::TRINITY_DN18331_c2_g5_i1::g.98900::m.98900	0	865	XP_018839623.1	eukaryotic translation initiation factor 3 subunit E	Juglans regia	XP_018808879.1
TRINITY_DN13546_c0_g1::TRINITY_DN13546_c0_g1_i3::g.25193::m.25193	0	1100	XP_018842287.1	probable methyltransferase PMT3	Juglans regia	XP_018808117.1
TRINITY_DN19711_c5_g2::TRINITY_DN19711_c5_g2_i2::g.122643::m.122643	7,17E-105	307	XP_018806786.1	aldose 1-epimerase	Juglans regia	OAY32166.1
TRINITY_DN15444_c2_g1::TRINITY_DN15444_c2_g1_i7::g.52052::m.52052	5,40E-50	168	XP_018852448.1	late embryogenesis abundant protein 1-like	Juglans regia	KDP20986.1
TRINITY_DN18083_c4_g1::TRINITY_DN18083_c4_g1_i1::g.94854::m.94854	1,61E-75	238	XP_014516606.1	plasminogen activator inhibitor 1 RNA-binding protein-like	Vigna radiata var. radiata	KOM58621.1
TRINITY_DN15930_c2_g2::TRINITY_DN15930_c2_g2_i5::g.59203::m.59203	0	688	XP_018839373.1	stearoyl-[acyl-carrier-protein 9-desaturase, chloroplastic-like	Juglans regia	XP_018812159.1
TRINITY_DN19332_c1_g1::TRINITY_DN19332_c1_g1_i1::g.116126::m.116126	0	775	XP_018831291.1	inosine-5'-monophosphate dehydrogenase 2-like	Juglans regia	XP_009349337.1

TRINITY_DN13790_c1_g1::TRINITY_DN13790_c1_g1_i1::g.28245::m.28245	0	755	XP_018826982.1	GDP-mannose 3,5-epimerase 2-like	Juglans regia	XP_018826983.1
TRINITY_DN9744_c0_g1::TRINITY_DN9744_c0_g1_i1::g.3792::m.3792	1,33E-170	474	XP_018849141.1	phosphomannomutase-like	Juglans regia	XP_008232782.1
TRINITY_DN13494_c0_g2::TRINITY_DN13494_c0_g2_i2::g.24524::m.24524	1,30E-131	371	XP_018813791.1	40S ribosomal protein S9-2	Juglans regia	XP_018817673.1
TRINITY_DN17631_c3_g6::TRINITY_DN17631_c3_g6_i1::g.87349::m.87349	2,00E-78	236	XP_018832799.1	uncharacterized protein At3g03773-like	Juglans regia	KHN32820.1
TRINITY_DN12268_c0_g1::TRINITY_DN12268_c0_g1_i1::g.11491::m.11491	0	793	XP_018828790.1	dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1B	Juglans regia	KDP44377.1
TRINITY_DN19388_c2_g2::TRINITY_DN19388_c2_g2_i2::g.117003::m.117003	2,00E-113	330	XP_018835592.1	probable carboxylesterase 5	Juglans regia	KDP45172.1
TRINITY_DN13433_c0_g1::TRINITY_DN13433_c0_g1_i4::g.23725::m.23725	0	988	XP_018839513.1	nicalin-1 isoform X1	Juglans regia	XP_018839514.1
TRINITY_DN17014_c1_g3::TRINITY_DN17014_c1_g3_i2::g.77015::m.77015	0	608	XP_018815793.1	eukaryotic translation initiation factor 3 subunit H	Juglans regia	ONI29040.1
TRINITY_DN13342_c3_g2::TRINITY_DN13342_c3_g2_i4::g.22568::m.22568	0	1112	XP_018834193.1	dynamin-2A-like	Juglans regia	XP_018831147.1
TRINITY_DN15981_c2_g1::TRINITY_DN15981_c2_g1_i5::g.59872::m.59872	1,17E-20	83,2	XP_018857823.1	heat shock factor-binding protein 1-like	Juglans regia	XP_018811503.1
TRINITY_DN18987_c2_g1::TRINITY_DN18987_c2_g1_i1::g.110056::m.110056	0	1104	XP_018851819.1	uncharacterized protein LOC109013987	Juglans regia	XP_018851823.1
TRINITY_DN12349_c8_g2::TRINITY_DN12349_c8_g2_i1::g.12068::m.12068	3,24E-82	247	XP_018809112.1	binding partner of ACD11 1-like	Juglans regia	XP_018809602.1
TRINITY_DN13325_c1_g1::TRINITY_DN13325_c1_g1_i1::g.22310::m.22310	1,63E-43	156	XP_018823987.1	peroxisomal and mitochondrial division factor 2-like	Juglans regia	XP_018823987.1
TRINITY_DN15794_c0_g2::TRINITY_DN15794_c0_g2_i7::g.57165::m.57165	0	958	XP_018842661.1	phosphoinositide phosphatase SAC6-like	Juglans regia	XP_018842662.1
TRINITY_DN16454_c1_g1::TRINITY_DN16454_c1_g1_i2::g.67727::m.67727	0	610	XP_018849887.1	heat shock protein 90-6, mitochondrial isoform X2	Juglans regia	XP_018849886.1
TRINITY_DN12161_c0_g1::TRINITY_DN12161_c0_g1_i4::g.10883::m.10883	1,26E-34	120	XP_018845364.1	uncharacterized protein LOC109009365	Juglans regia	ONI21818.1
TRINITY_DN16552_c0_g2::TRINITY_DN16552_c0_g2_i1::g.69236::m.69236	6,19E-52	167	XP_008218348.1	peroxygenase	Prunus mume	KHN31490.1
TRINITY_DN13234_c0_g1::TRINITY_DN13234_c0_g1_i7::g.21346::m.21346	7,07E-148	424	XP_018841836.1	protein SLOW GREEN 1, chloroplastic	Juglans regia	ONI31974.1
TRINITY_DN16040_c0_g1::TRINITY_DN16040_c0_g1_i12::g.61056::m.61056	0	1771	XP_018846983.1	calcium-transporting ATPase 4, plasma membrane-type-like isoform X1	Juglans regia	XP_009368080.1
TRINITY_DN17716_c3_g1::TRINITY_DN17716_c3_g1_i5::g.88746::m.88746	0	741	XP_018811146.1	serine--tRNA ligase-like	Juglans regia	XP_018841784.1
TRINITY_DN14659_c0_g2::TRINITY_DN14659_c0_g2_i6::g.40081::m.40081	1,18E-168	469	XP_018824239.1	proteasome subunit beta type-4-like	Juglans regia	XP_018844541.1
TRINITY_DN8972_c0_g1::TRINITY_DN8972_c0_g1_i1::g.3000::m.3000	2,81E-151	431	XP_018842842.1	protein ABIL2-like isoform X3	Juglans regia	XP_018842843.1

TRINITY_DN19468_c2_g5::TRINITY_DN19468_c2_g5_i1::g.118327::m.118327	1,65E-67	211	KOM53769.1	hypothetical protein LR48_Vigan09g242800	Vigna angularis	XP_018852431.1
TRINITY_DN16932_c1_g2::TRINITY_DN16932_c1_g2_i8::g.75832::m.75832	1,78E-84	252	XP_008244645.1	uncharacterized protein LOC103342773	Prunus mume	XP_018859721.1
TRINITY_DN15439_c1_g1::TRINITY_DN15439_c1_g1_i4::g.51919::m.51919	0	881	XP_018835615.1	clathrin heavy chain 2	Juglans regia	XP_018819181.1
TRINITY_DN19589_c2_g2::TRINITY_DN19589_c2_g2_i4::g.120310::m.120310	0	717	XP_018819716.1	3-oxoacyl-[acyl-carrier-protein synthase I, chloroplastic	Juglans regia	XP_018819717.1
TRINITY_DN17548_c3_g2::TRINITY_DN17548_c3_g2_i2::g.85798::m.85798	0	582	XP_018854480.1	bifunctional dTDP-4-dehydrorhamnose 3,5-epimerase/dTDP-4-dehydrorhamnose reductase	Juglans regia	XP_018820273.1
TRINITY_DN12116_c0_g2::TRINITY_DN12116_c0_g2_i1::g.10617::m.10617	1,83E-72	220	XP_018833870.1	1-Cys peroxiredoxin	Juglans regia	XP_009372050.1
TRINITY_DN16328_c4_g1::TRINITY_DN16328_c4_g1_i2::g.65854::m.65854						
TRINITY_DN19061_c2_g1::TRINITY_DN19061_c2_g1_i2::g.111195::m.111195	1,06E-172	480	XP_018814237.1	V-type proton ATPase subunit D-like	Juglans regia	XP_018814238.1
TRINITY_DN17042_c1_g2::TRINITY_DN17042_c1_g2_i2::g.77496::m.77496	0	1953	XP_018825846.1	enhancer of mRNA-decapping protein 4-like	Juglans regia	ONH99477.1
TRINITY_DN16369_c2_g3::TRINITY_DN16369_c2_g3_i1::g.66518::m.66518	1,03E-60	193	XP_018821858.1	ferritin-3, chloroplastic	Juglans regia	OAY46317.1
TRINITY_DN17384_c3_g1::TRINITY_DN17384_c3_g1_i3::g.82818::m.82818	0	672	XP_018840433.1	cysteine synthase, chloroplastic/chromoplastic isoform X1	Juglans regia	XP_018840434.1
TRINITY_DN18568_c1_g1::TRINITY_DN18568_c1_g1_i19::g.102809::m.102809	0	1958	XP_018808786.1	valine--tRNA ligase, mitochondrial 1	Juglans regia	XP_018808787.1
TRINITY_DN19159_c0_g2::TRINITY_DN19159_c0_g2_i3::g.113047::m.113047	6,73E-94	278	XP_018858281.1	chitinase 10-like	Juglans regia	XP_015939499.1
TRINITY_DN19261_c3_g1::TRINITY_DN19261_c3_g1_i6::g.113934::m.113934	0	599	XP_018827765.1	callose synthase 5	Juglans regia	KYP67853.1
TRINITY_DN13280_c0_g2::TRINITY_DN13280_c0_g2_i2::g.21976::m.21976	0	693	XP_018820175.1	monothiol glutaredoxin-S17	Juglans regia	KDP20960.1
TRINITY_DN18061_c2_g1::TRINITY_DN18061_c2_g1_i8::g.94553::m.94553	0	695	XP_018836149.1	3-oxo-Delta(4,5)-steroid 5-beta-reductase-like	Juglans regia	XP_018833905.1
TRINITY_DN12991_c0_g2::TRINITY_DN12991_c0_g2_i1::g.18234::m.18234	0	708	XP_018847795.1	dnaJ protein P58IPK homolog	Juglans regia	XP_009377419.1
TRINITY_DN19158_c0_g2::TRINITY_DN19158_c0_g2_i3::g.112794::m.112794	0	942	XP_018857968.1	type I inositol polyphosphate 5-phosphatase 12-like isoform X2	Juglans regia	XP_018857967.1
TRINITY_DN11523_c0_g3::TRINITY_DN11523_c0_g3_i2::g.7748::m.7748	3,37E-173	482	XP_018819194.1	40S ribosomal protein S4-3	Juglans regia	AES86765.1
TRINITY_DN14938_c0_g1::TRINITY_DN14938_c0_g1_i5::g.44776::m.44776	3,68E-174	485	XP_018835690.1	eukaryotic translation initiation factor 2 subunit beta-like	Juglans regia	XP_018828541.1
TRINITY_DN17566_c1_g1::TRINITY_DN17566_c1_g1_i8::g.86112::m.86112	0	921	XP_018816061.1	2-isopropylmalate synthase 1, chloroplastic-like	Juglans regia	XP_020421790.1
TRINITY_DN19918_c3_g1::TRINITY_DN19918_c3_g1_i11::g.126682::m.126682	0	1827	XP_018827765.1	callose synthase 5	Juglans regia	XP_016648608.1

TRINITY_DN12927_c2_g2::TRINITY_DN12927_c2_g2_i9::g.17583::m.17583	0	1412	ONH96238.1	hypothetical protein PRUPE_7G115400	Prunus persica	XP_007204282.1
TRINITY_DN16523_c1_g3::TRINITY_DN16523_c1_g3_i4::g.69129::m.69129	0	764	XP_018805377.1	uncharacterized protein LOC108979207	Juglans regia	XP_018805377.1
TRINITY_DN15434_c1_g2::TRINITY_DN15434_c1_g2_i2::g.51814::m.51814	8,82E-154	429	XP_018854606.1	ras-related protein RABA2a	Juglans regia	OAY39697.1
TRINITY_DN18883_c1_g1::TRINITY_DN18883_c1_g1_i17::g.108283::m.108283	0	1147	KDP37205.1	hypothetical protein JCGZ_06261	Jatropha curcas	XP_012073334.1
TRINITY_DN15951_c5_g2::TRINITY_DN15951_c5_g2_i3::g.59457::m.59457	0	563	XP_018826547.1	aldose 1-epimerase	Juglans regia	ONI08609.1
TRINITY_DN17564_c2_g2::TRINITY_DN17564_c2_g2_i9::g.86086::m.86086	0	1044	XP_018817793.1	polyadenylate-binding protein 8-like	Juglans regia	XP_018817793.1
TRINITY_DN15444_c2_g1::TRINITY_DN15444_c2_g1_i2::g.52034::m.52034	7,78E-79	243	XP_018852448.1	late embryogenesis abundant protein 1-like	Juglans regia	OAY24830.1
TRINITY_DN19153_c1_g1::TRINITY_DN19153_c1_g1_i1::g.112868::m.112868	8,02E-113	339	XP_018858842.1	patellin-4-like	Juglans regia	XP_018857977.1
TRINITY_DN18739_c0_g2::TRINITY_DN18739_c0_g2_i10::g.105638::m.105638	0	1254	XP_018841709.1	eukaryotic translation initiation factor 3 subunit A-like	Juglans regia	XP_018809947.1
TRINITY_DN17091_c0_g2::TRINITY_DN17091_c0_g2_i7::g.78224::m.78224	0	1140	XP_018829342.1	uncharacterized protein LOC108997478 isoform X1	Juglans regia	XP_018829351.1
TRINITY_DN16872_c0_g1::TRINITY_DN16872_c0_g1_i9::g.74807::m.74807	0	692	XP_018842503.1	branched-chain-amino-acid aminotransferase 3, chloroplastic-like	Juglans regia	XP_009342188.1
TRINITY_DN13841_c4_g1::TRINITY_DN13841_c4_g1_i2::g.28420::m.28420	9,02E-145	417	XP_018821230.1	protein SLOW GREEN 1, chloroplastic-like	Juglans regia	XP_016647139.1
TRINITY_DN11991_c0_g1::TRINITY_DN11991_c0_g1_i1::g.9823::m.9823	0	841	XP_018846215.1	26S proteasome non-ATPase regulatory subunit 12 homolog A	Juglans regia	OAY33256.1
TRINITY_DN15464_c0_g1::TRINITY_DN15464_c0_g1_i3::g.52265::m.52265	0	564	XP_018823263.1	probable mediator of RNA polymerase II transcription subunit 37c	Juglans regia	GAU49026.1
TRINITY_DN11351_c0_g4::TRINITY_DN11351_c0_g4_i3::g.7095::m.7095	3,10E-122	350	XP_018815857.1	chloride conductance regulatory protein ICln isoform X1	Juglans regia	KDP22395.1
TRINITY_DN19612_c1_g2::TRINITY_DN19612_c1_g2_i9::g.120822::m.120822	0	527	XP_018809366.1	probable methyltransferase PMT18	Juglans regia	KDP25187.1
TRINITY_DN10989_c0_g1::TRINITY_DN10989_c0_g1_i3::g.6012::m.6012	2,75E-127	367	XP_018821762.1	uncharacterized protein LOC108991825	Juglans regia	XP_018838963.1
TRINITY_DN12636_c0_g1::TRINITY_DN12636_c0_g1_i3::g.14427::m.14427	1,13E-95	294	XP_018824850.1	histone deacetylase 5 isoform X2	Juglans regia	XP_018824848.1
TRINITY_DN15811_c0_g5::TRINITY_DN15811_c0_g5_i2::g.57331::m.57331	2,88E-114	328	XP_018835046.1	proteasome subunit alpha type-6 isoform X1	Juglans regia	XP_018835047.1
TRINITY_DN19982_c2_g1::TRINITY_DN19982_c2_g1_i8::g.127226::m.127226	6,55E-90	266	XP_018808748.1	adenine phosphoribosyltransferase 1-like	Juglans regia	KYP70415.1
TRINITY_DN18355_c0_g1::TRINITY_DN18355_c0_g1_i6::g.99167::m.99167	2,40E-62	195	XP_018818043.1	ankyrin repeat and SAM domain-containing protein 6-like	Juglans regia	XP_008372496.1
TRINITY_DN15264_c2_g1::TRINITY_DN15264_c2_g1_i9::g.49352::m.49352	1,39E-55	175	XP_018829795.1	uncharacterized protein At4g13230	Juglans regia	XP_020234770.1

TRINITY_DN12375_c3_g5::TRINITY_DN12375_c3_g5_i1::g.12365::m.12365	0	1150	XP_018845206.1	probable methyltransferase PMT2 isoform X1	Juglans regia	XP_018845207.1
TRINITY_DN17383_c0_g1::TRINITY_DN17383_c0_g1_i3::g.82754::m.82754	0	605	XP_018853672.1	methionine aminopeptidase 1A	Juglans regia	OAY62431.1
TRINITY_DN18266_c2_g1::TRINITY_DN18266_c2_g1_i1::g.97903::m.97903	1,81E-68	210	XP_018850051.1	REF/SRPP-like protein At3g05500	Juglans regia	XP_018850053.1
TRINITY_DN15771_c0_g1::TRINITY_DN15771_c0_g1_i5::g.56845::m.56845	0	515	XP_018845062.1	coatomer subunit beta'-2-like	Juglans regia	XP_018843771.1
TRINITY_DN15425_c0_g1::TRINITY_DN15425_c0_g1_i1::g.51653::m.51653	0	630	OAY50293.1	hypothetical protein MANES_05G124200	Manihot esculenta	KEH36332.1
TRINITY_DN19779_c3_g1::TRINITY_DN19779_c3_g1_i9::g.123558::m.123558	0	653	XP_018806897.1	lysine--tRNA ligase isoform X1	Juglans regia	XP_018806898.1
TRINITY_DN17373_c0_g1::TRINITY_DN17373_c0_g1_i1::g.82647::m.82647	0	952	XP_018837882.1	dynamin-related protein 1C	Juglans regia	XP_018814632.1
TRINITY_DN17897_c2_g2::TRINITY_DN17897_c2_g2_i2::g.91535::m.91535	0	894	XP_018834105.1	exocyst complex component EXO70B1-like	Juglans regia	XP_008231066.1
TRINITY_DN17861_c1_g1::TRINITY_DN17861_c1_g1_i1::g.90803::m.90803	1,72E-55	176	XP_018818881.1	L-ascorbate peroxidase, cytosolic	Juglans regia	XP_018818882.1
TRINITY_DN15475_c0_g1::TRINITY_DN15475_c0_g1_i2::g.52448::m.52448	0	667	XP_018808798.1	uncharacterized protein LOC108981991	Juglans regia	XP_018843302.1
TRINITY_DN17503_c0_g1::TRINITY_DN17503_c0_g1_i2::g.84892::m.84892	8,38E-30	117	XP_018842400.1	eukaryotic translation initiation factor 3 subunit C isoform X1	Juglans regia	XP_018842401.1
TRINITY_DN14545_c0_g2::TRINITY_DN14545_c0_g2_i6::g.38726::m.38726	0	854	XP_018836442.1	tubulin beta chain-like	Juglans regia	XP_018854022.1
TRINITY_DN12477_c0_g1::TRINITY_DN12477_c0_g1_i2::g.13209::m.13209	0	1000	XP_018816821.1	2-hydroxyacyl-CoA lyase	Juglans regia	XP_008229283.1
TRINITY_DN18895_c1_g2::TRINITY_DN18895_c1_g2_i8::g.108488::m.108488	3,79E-157	442	XP_018832945.1	peptidyl-prolyl cis-trans isomerase A1 isoform X1	Juglans regia	XP_018832946.1
TRINITY_DN14210_c0_g1::TRINITY_DN14210_c0_g1_i5::g.33918::m.33918	3,27E-140	395	XP_018806297.1	eukaryotic translation initiation factor 6-2	Juglans regia	XP_018806298.1
TRINITY_DN18268_c0_g1::TRINITY_DN18268_c0_g1_i8::g.98068::m.98068	0	667	XP_018836294.1	arginine--tRNA ligase, cytoplasmic-like isoform X1	Juglans regia	XP_018836295.1
TRINITY_DN16248_c0_g1::TRINITY_DN16248_c0_g1_i2::g.64527::m.64527	0	787	XP_018827585.1	fumarylacetoacetase	Juglans regia	KDP37782.1
TRINITY_DN16306_c1_g2::TRINITY_DN16306_c1_g2_i2::g.65481::m.65481	2,69E-67	208	XP_018822871.1	strigolactone esterase D14	Juglans regia	XP_018838099.1
TRINITY_DN19332_c2_g5::TRINITY_DN19332_c2_g5_i3::g.116136::m.116136	3,22E-160	447	XP_018841293.1	nicotinamidase 1-like	Juglans regia	XP_018841294.1
TRINITY_DN19330_c0_g3::TRINITY_DN19330_c0_g3_i6::g.116162::m.116162	0	733	XP_018818846.1	elongation factor 1-alpha-like	Juglans regia	XP_018818847.1
TRINITY_DN19198_c2_g2::TRINITY_DN19198_c2_g2_i7::g.112135::m.112135	3,46E-132	373	XP_008228156.1	25.3 kDa vesicle transport protein	Prunus mume	ONI15308.1
TRINITY_DN18055_c0_g3::TRINITY_DN18055_c0_g3_i2::g.94441::m.94441	9,46E-98	288	XP_008239513.1	60S ribosomal protein L7a	Prunus mume	ONI07927.1

TRINITY_DN19902_c1_g2::TRINITY_DN19902_c1_g2_i1::g.125828::m.125828	0	837	XP_018828232.1	protein transport protein SEC23-like	Juglans regia	XP_018848547.1
TRINITY_DN16483_c1_g1::TRINITY_DN16483_c1_g1_i8::g.68282::m.68282	0	3114	XP_018833570.1	brefeldin A-inhibited guanine nucleotide-exchange protein 5 isoform X2	Juglans regia	XP_018833569.1
TRINITY_DN13316_c0_g1::TRINITY_DN13316_c0_g1_i4::g.22236::m.22236	0	1325	XP_018833925.1	isoamylase 3, chloroplastic isoform X1	Juglans regia	XP_018833926.1
TRINITY_DN14260_c1_g1::TRINITY_DN14260_c1_g1_i4::g.34485::m.34485	0	561	XP_018819297.1	2-dehydro-3-deoxyphosphooctonate aldolase	Juglans regia	ONI11851.1
TRINITY_DN14547_c0_g1::TRINITY_DN14547_c0_g1_i3::g.38055::m.38055	0	518	XP_018807236.1	eukaryotic translation initiation factor 3 subunit F-like	Juglans regia	XP_018821752.1
TRINITY_DN17557_c0_g1::TRINITY_DN17557_c0_g1_i2::g.85865::m.85865	8,29E-132	384	ONH92223.1	hypothetical protein PRUPE_8G163800	Prunus persica	ONH92224.1
TRINITY_DN14469_c0_g2::TRINITY_DN14469_c0_g2_i3::g.37807::m.37807	0	542	XP_018824359.1	plant UBX domain-containing protein 10	Juglans regia	XP_018844497.1
TRINITY_DN13571_c3_g1::TRINITY_DN13571_c3_g1_i9::g.25607::m.25607	0	704	XP_018822222.1	DEAD-box ATP-dependent RNA helicase 56	Juglans regia	XP_018812870.1
TRINITY_DN15222_c4_g2::TRINITY_DN15222_c4_g2_i2::g.48684::m.48684	0	551	XP_018860327.1	probable dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 3B	Juglans regia	ONI10057.1
TRINITY_DN14937_c1_g1::TRINITY_DN14937_c1_g1_i10::g.44580::m.44580	7,57E-117	338	XP_018842015.1	endochitinase-like	Juglans regia	ONH97234.1
TRINITY_DN11539_c0_g1::TRINITY_DN11539_c0_g1_i5::g.7794::m.7794	7,53E-62	206	XP_018825127.1	plasminogen activator inhibitor 1 RNA-binding protein	Juglans regia	OAY60106.1
TRINITY_DN15625_c0_g3::TRINITY_DN15625_c0_g3_i1::g.54608::m.54608	1,68E-134	379	KHN38389.1	Vesicle-associated membrane protein 713	Glycine soja	KRH73538.1
TRINITY_DN17623_c4_g3::TRINITY_DN17623_c4_g3_i4::g.87434::m.87434	8,64E-14	67,4	XP_018831494.1	protein PXR1	Juglans regia	XP_018831495.1
TRINITY_DN19001_c1_g1::TRINITY_DN19001_c1_g1_i22::g.110256::m.110256	1,15E-100	293	ONI16565.1	hypothetical protein PRUPE_3G106800	Prunus persica	XP_008228869.1
TRINITY_DN14942_c2_g1::TRINITY_DN14942_c2_g1_i4::g.44640::m.44640	1,96E-78	232	KRH26163.1	hypothetical protein GLYMA_12G156200	Glycine max	KDP38691.1
TRINITY_DN14097_c2_g2::TRINITY_DN14097_c2_g2_i1::g.31570::m.31570	3,39E-162	474	XP_018811830.1	exocyst complex component EXO70B1	Juglans regia	XP_009349485.1
TRINITY_DN19080_c0_g1::TRINITY_DN19080_c0_g1_i5::g.111810::m.111810	0	721	XP_018810134.1	dihydropyrimidine dehydrogenase (NADP(+)), chloroplastic-like	Juglans regia	XP_018823611.1
TRINITY_DN18479_c0_g5::TRINITY_DN18479_c0_g5_i1::g.100968::m.100968	1,37E-124	353	OIV97133.1	hypothetical protein TanjilG_00162	Lupinus angustifolius	XP_019417809.1
TRINITY_DN17219_c0_g1::TRINITY_DN17219_c0_g1_i4::g.80391::m.80391	9,74E-50	160	KDP34497.1	hypothetical protein JCGZ_11047	Jatropha curcas	XP_012075960.1
TRINITY_DN19330_c0_g1::TRINITY_DN19330_c0_g1_i8::g.116161::m.116161	4,15E-63	192	XP_018819452.1	elongation factor 1-alpha, partial	Juglans regia	XP_018860404.1
TRINITY_DN13211_c0_g1::TRINITY_DN13211_c0_g1_i3::g.21098::m.21098	0	718	XP_018806331.1	60S ribosomal protein L3-2	Juglans regia	XP_018806332.1
TRINITY_DN13228_c1_g1::TRINITY_DN13228_c1_g1_i1::g.21382::m.21382	6,93E-82	244	XP_018817862.1	thioredoxin M3, chloroplastic-like	Juglans regia	XP_008236593.1

TRINITY_DN19095_c0_g1::TRINITY_DN19095_c0_g1_i1::g.111856::m.111856	6,14E-113	321	XP_018847195.1	eukaryotic translation initiation factor 5A-2	Juglans regia	XP_018829201.1
TRINITY_DN12846_c1_g3::TRINITY_DN12846_c1_g3_i2::g.16059::m.16059	1,88E-106	305	XP_018820918.1	cyanate hydratase	Juglans regia	KDP29704.1
TRINITY_DN16616_c1_g1::TRINITY_DN16616_c1_g1_i2::g.70640::m.70640	7,45E-165	464	XP_018846161.1	uncharacterized protein LOC109009947	Juglans regia	ONH97840.1
TRINITY_DN17302_c1_g3::TRINITY_DN17302_c1_g3_i1::g.81624::m.81624	0	1804	XP_018841180.1	copper-transporting ATPase RAN1-like	Juglans regia	XP_018835852.1
TRINITY_DN12723_c0_g1::TRINITY_DN12723_c0_g1_i2::g.15224::m.15224	0	705	KDP30971.1	hypothetical protein JCGZ_11347	Jatropha curcas	XP_012079902.1
TRINITY_DN17461_c1_g1::TRINITY_DN17461_c1_g1_i12::g.84192::m.84192	1,60E-132	402	XP_018834800.1	peptidyl-prolyl cis-trans isomerase CYP95 isoform X1	Juglans regia	XP_018834801.1
TRINITY_DN17237_c2_g3::TRINITY_DN17237_c2_g3_i7::g.80360::m.80360	0	1788	KRH47017.1	hypothetical protein GLYMA_07G004100	Glycine max	XP_003529523.1
TRINITY_DN12529_c0_g1::TRINITY_DN12529_c0_g1_i3::g.13512::m.13512	0	610	XP_018812700.1	SNF1-related protein kinase regulatory subunit gamma-1-like	Juglans regia	XP_018812702.1
TRINITY_DN12993_c1_g1::TRINITY_DN12993_c1_g1_i9::g.18389::m.18389	2,73E-68	207	XP_018856764.1	cysteine proteinase inhibitor	Juglans regia	XP_018843658.1
TRINITY_DN18316_c4_g8::TRINITY_DN18316_c4_g8_i2::g.98671::m.98671	9,20E-143	402	XP_018834389.1	ras-related protein RABA4c	Juglans regia	ONI20318.1
TRINITY_DN14932_c2_g1::TRINITY_DN14932_c2_g1_i5::g.44480::m.44480	3,06E-59	182	XP_017186235.1	12-oxophytodienoate reductase 2-like	Malus domestica	OAY23951.1
TRINITY_DN18395_c1_g2::TRINITY_DN18395_c1_g2_i5::g.99070::m.99070	0	626	XP_018841544.1	ubiquitin domain-containing protein DSK2a-like isoform X3	Juglans regia	XP_018829167.1
TRINITY_DN12675_c1_g1::TRINITY_DN12675_c1_g1_i2::g.14909::m.14909	0	573	XP_018811219.1	eukaryotic translation initiation factor 2 subunit alpha homolog	Juglans regia	KDP42130.1
TRINITY_DN18566_c1_g3::TRINITY_DN18566_c1_g3_i2::g.102668::m.102668	7,64E-128	364	XP_018860411.1	coatomer subunit epsilon-1	Juglans regia	XP_018828599.1
TRINITY_DN10355_c0_g1::TRINITY_DN10355_c0_g1_i2::g.4690::m.4690						
TRINITY_DN13432_c1_g1::TRINITY_DN13432_c1_g1_i19::g.23847::m.23847	0	542	XP_018853171.1	probable protein phosphatase 2C 11	Juglans regia	XP_018857120.1
TRINITY_DN14200_c0_g1::TRINITY_DN14200_c0_g1_i2::g.33523::m.33523	0	1024	XP_008230855.1	beta-glucosidase BoGH3B-like	Prunus mume	XP_008245228.1
TRINITY_DN12445_c0_g2::TRINITY_DN12445_c0_g2_i13::g.12955::m.12955	8,62E-90	273	XP_008239439.1	probable aspartyl aminopeptidase	Prunus mume	XP_009359462.1
TRINITY_DN12195_c0_g1::TRINITY_DN12195_c0_g1_i1::g.10552::m.10552	1,52E-136	388	XP_018821879.1	tropinone reductase homolog At5g06060-like	Juglans regia	XP_008233480.1
TRINITY_DN13264_c3_g1::TRINITY_DN13264_c3_g1_i4::g.21666::m.21666	0	694	XP_018817132.1	aminoacylase-1-like	Juglans regia	XP_014505119.1
TRINITY_DN16140_c1_g1::TRINITY_DN16140_c1_g1_i18::g.63031::m.63031	1,77E-44	148	XP_004509621.1	probable calcium-binding protein CML21	Cicer arietinum	KYP50859.1
TRINITY_DN18120_c2_g1::TRINITY_DN18120_c2_g1_i8::g.95450::m.95450	6,90E-49	161	XP_018820284.1	aldo-keto reductase family 4 member C9-like	Juglans regia	XP_018820285.1

TRINITY_DN19263_c0_g1::TRINITY_DN19263_c0_g1_i2::g.114802::m.114802	6,96E-136	404	XP_018837044.1	probable cytosolic oligopeptidase A	Juglans regia	XP_018850785.1
TRINITY_DN16243_c0_g1::TRINITY_DN16243_c0_g1_i2::g.64445::m.64445	0	946	XP_018840323.1	V-type proton ATPase subunit a3-like	Juglans regia	XP_008348897.1
TRINITY_DN13812_c2_g1::TRINITY_DN13812_c2_g1_i1::g.28623::m.28623	1,96E-14	73,9	XP_018819456.1	plasminogen activator inhibitor 1 RNA-binding protein-like	Juglans regia	XP_018854638.1
TRINITY_DN37045_c0_g1::TRINITY_DN37045_c0_g1_i1::g.131013::m.131013	0	671	XP_006574889.2	PI-PLC X domain-containing protein At5g67130	Glycine max	KHN05833.1
TRINITY_DN17851_c1_g3::TRINITY_DN17851_c1_g3_i2::g.90156::m.90156	0	639	XP_008372715.1	arginase 1, mitochondrial	Malus domestica	XP_018505555.1
TRINITY_DN14011_c0_g1::TRINITY_DN14011_c0_g1_i1::g.31283::m.31283	3,39E-116	341	XP_018824670.1	uncharacterized protein LOC108994051 isoform X1	Juglans regia	ONI13454.1
TRINITY_DN11978_c1_g4::TRINITY_DN11978_c1_g4_i1::g.9533::m.9533	0	780	OAY30086.1	hypothetical protein MANES_14G002500	Manihot esculenta	XP_018830946.1
TRINITY_DN17242_c0_g2::TRINITY_DN17242_c0_g2_i1::g.80718::m.80718	0	636	XP_018838485.1	UDP-glycosyltransferase 79B30 isoform X1	Juglans regia	XP_018838486.1
TRINITY_DN16272_c1_g2::TRINITY_DN16272_c1_g2_i3::g.64808::m.64808	0	728	XP_018813395.1	ureidoglycolate hydrolase	Juglans regia	ONI26562.1
TRINITY_DN12654_c0_g3::TRINITY_DN12654_c0_g3_i5::g.14722::m.14722	0	1115	XP_018852605.1	leukotriene A-4 hydrolase homolog	Juglans regia	ONI24042.1
TRINITY_DN13334_c3_g1::TRINITY_DN13334_c3_g1_i2::g.22908::m.22908	4,30E-56	191	XP_018825817.1	subtilisin-like protease SBT5.4	Juglans regia	XP_018810465.1
TRINITY_DN16447_c0_g1::TRINITY_DN16447_c0_g1_i1::g.67047::m.67047	3,72E-106	309	KRH12348.1	hypothetical protein GLYMA_15G167400	Glycine max	XP_006596959.1
TRINITY_DN15955_c0_g1::TRINITY_DN15955_c0_g1_i1::g.59530::m.59530	2,31E-147	425	XP_018812439.1	ferrochelatase-2, chloroplastic-like	Juglans regia	ONI33279.1
TRINITY_DN19579_c1_g3::TRINITY_DN19579_c1_g3_i1::g.120400::m.120400	3,20E-147	433	XP_018839115.1	delta-1-pyrroline-5-carboxylate synthase-like	Juglans regia	XP_018820283.1
TRINITY_DN17207_c1_g1::TRINITY_DN17207_c1_g1_i5::g.80226::m.80226	0	1003	XP_018829757.1	beta-hexosaminidase 2	Juglans regia	OAY41648.1
TRINITY_DN17881_c0_g1::TRINITY_DN17881_c0_g1_i3::g.91227::m.91227	0	638	XP_018826275.1	uncharacterized protein LOC108995215	Juglans regia	ONI04868.1
TRINITY_DN16367_c2_g1::TRINITY_DN16367_c2_g1_i2::g.66527::m.66527	0	551	XP_008364783.1	LOW QUALITY PROTEIN: diaminopimelate epimerase, chloroplastic-like	Malus domestica	ONI03290.1
TRINITY_DN12454_c0_g1::TRINITY_DN12454_c0_g1_i1::g.12984::m.12984	0	877	XP_018843339.1	ubiquitin carboxyl-terminal hydrolase 6-like isoform X1	Juglans regia	XP_018843340.1
TRINITY_DN18113_c1_g2::TRINITY_DN18113_c1_g2_i2::g.95380::m.95380	0	553	XP_018851148.1	probable sucrose-phosphatase 2 isoform X1	Juglans regia	XP_009362647.1
TRINITY_DN13825_c0_g1::TRINITY_DN13825_c0_g1_i2::g.28846::m.28846	7,72E-90	265	XP_018817591.1	aldo-keto reductase family 4 member C9-like	Juglans regia	XP_020221314.1
TRINITY_DN15635_c1_g1::TRINITY_DN15635_c1_g1_i2::g.54767::m.54767	0	833	XP_018842945.1	sugar transport protein 8-like	Juglans regia	XP_018842937.1
TRINITY_DN18171_c1_g1::TRINITY_DN18171_c1_g1_i5::g.96291::m.96291	0	906	XP_018833058.1	calcium-dependent protein kinase 34-like	Juglans regia	XP_018842514.1

TRINITY_DN17183_c0_g2::TRINITY_DN17183_c0_g2_i5::g.79774::m.79774	7,87E-103	299	XP_018821677.1	maf-like protein DDB_G0281937 isoform X6	Juglans regia	XP_018821674.1
TRINITY_DN16005_c0_g3::TRINITY_DN16005_c0_g3_i6::g.60403::m.60403	0	798	XP_018831026.1	glutamate dehydrogenase A	Juglans regia	XP_018808101.1
TRINITY_DN13194_c5_g1::TRINITY_DN13194_c5_g1_i1::g.20972::m.20972	2,80E-158	454	XP_008371522.1	pollen-specific leucine-rich repeat extensin-like protein 1	Malus domestica	XP_008371522.1
TRINITY_DN19141_c0_g1::TRINITY_DN19141_c0_g1_i8::g.112746::m.112746	0	748	XP_018853594.1	dihydrolipoyllysine-residue acetyltransferase component 1 of pyruvate dehydrogenase complex, mitochondrial	Juglans regia	XP_018853594.1
TRINITY_DN19587_c1_g2::TRINITY_DN19587_c1_g2_i1::g.120316::m.120316	0	624	XP_018825827.1	DNA damage-inducible protein 1 isoform X1	Juglans regia	XP_018825835.1
TRINITY_DN14259_c5_g1::TRINITY_DN14259_c5_g1_i8::g.34656::m.34656	9,89E-75	224	XP_018860648.1	uncharacterized protein LOC109022250	Juglans regia	XP_018860649.1
TRINITY_DN16231_c1_g1::TRINITY_DN16231_c1_g1_i4::g.64294::m.64294	0	731	XP_018816814.1	mannose-6-phosphate isomerase 1	Juglans regia	KDP32959.1
TRINITY_DN14338_c3_g2::TRINITY_DN14338_c3_g2_i1::g.35555::m.35555	0	709	XP_018832863.1	beta-glucosidase 42 isoform X1	Juglans regia	ONI05292.1
TRINITY_DN19174_c1_g3::TRINITY_DN19174_c1_g3_i1::g.113399::m.113399	0	537	XP_018818703.1	cycloartenol synthase 2	Juglans regia	XP_009370034.1
TRINITY_DN19841_c3_g2::TRINITY_DN19841_c3_g2_i9::g.124618::m.124618	0	2182	XP_018833940.1	probable manganese-transporting ATPase PDR2	Juglans regia	XP_018833946.1
TRINITY_DN20035_c3_g1::TRINITY_DN20035_c3_g1_i3::g.128175::m.128175	0	652	XP_018848755.1	indole-3-glycerol phosphate synthase, chloroplastic-like	Juglans regia	XP_012081510.1
TRINITY_DN18498_c3_g4::TRINITY_DN18498_c3_g4_i4::g.101572::m.101572	1,05E-97	281	XP_018850281.1	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 13-B-like	Juglans regia	XP_008361715.1
TRINITY_DN17440_c0_g1::TRINITY_DN17440_c0_g1_i7::g.84097::m.84097	0	1154	XP_018848330.1	dnaJ protein ERDJ2A	Juglans regia	XP_018848331.1
TRINITY_DN15779_c0_g2::TRINITY_DN15779_c0_g2_i1::g.57109::m.57109	2,19E-84	256	XP_018840900.1	probable prolyl 4-hydroxylase 10	Juglans regia	XP_018807322.1
TRINITY_DN18149_c0_g1::TRINITY_DN18149_c0_g1_i3::g.95908::m.95908	5,67E-178	499	XP_018840325.1	cysteine protease RD19A-like	Juglans regia	KDP41743.1
TRINITY_DN18366_c0_g2::TRINITY_DN18366_c0_g2_i3::g.99417::m.99417	2,79E-101	291	XP_018808968.1	40S ribosomal protein S11	Juglans regia	XP_018822277.1
TRINITY_DN16745_c0_g1::TRINITY_DN16745_c0_g1_i9::g.72756::m.72756	0	1115	XP_018830674.1	uncharacterized protein LOC108998567 isoform X2	Juglans regia	XP_018830673.1
TRINITY_DN12226_c1_g1::TRINITY_DN12226_c1_g1_i9::g.11323::m.11323	1,45E-51	162	XP_018836815.1	uncharacterized protein LOC109003223	Juglans regia	XP_018836816.1
TRINITY_DN16837_c0_g2::TRINITY_DN16837_c0_g2_i4::g.74272::m.74272	0	952	XP_018809133.1	cleft lip and palate transmembrane protein 1 homolog	Juglans regia	XP_009379523.1
TRINITY_DN14860_c0_g2::TRINITY_DN14860_c0_g2_i3::g.43462::m.43462	0	2170	XP_018825838.1	uncharacterized protein LOC108994897 isoform X1	Juglans regia	XP_018825838.1
TRINITY_DN19634_c0_g1::TRINITY_DN19634_c0_g1_i18::g.121436::m.121436	0	4563	XP_018846305.1	BEACH domain-containing protein C2 isoform X2	Juglans regia	XP_018846304.1

TRINITY_DN18967_c1_g1::TRINITY_DN18967_c1_g1_i1::g.109547::m.109547	0	870	XP_018833063.1	dihydropyrimidinase-like	Juglans regia	XP_018842508.1
TRINITY_DN10328_c0_g1::TRINITY_DN10328_c0_g1_i1::g.4642::m.4642	8,93E-67	204	ONI01573.1	hypothetical protein PRUPE_6G147100	Prunus persica	XP_020422670.1
TRINITY_DN12931_c0_g1::TRINITY_DN12931_c0_g1_i4::g.17462::m.17462	2,39E-110	318	XP_018813434.1	ER membrane protein complex subunit 8/9 homolog	Juglans regia	XP_018825614.1
TRINITY_DN15347_c2_g1::TRINITY_DN15347_c2_g1_i4::g.50637::m.50637	3,37E-52	174	XP_018852304.1	putative HVA22-like protein g	Juglans regia	KRH51714.1
TRINITY_DN18324_c2_g1::TRINITY_DN18324_c2_g1_i6::g.99024::m.99024	0	850	XP_018841744.1	oxysterol-binding protein-related protein 3A	Juglans regia	XP_018807417.1
TRINITY_DN15702_c0_g3::TRINITY_DN15702_c0_g3_i1::g.55933::m.55933	5,39E-177	491	KDP41064.1	hypothetical protein JCGZ_03170	Jatropha curcas	XP_012068495.1
TRINITY_DN11687_c0_g1::TRINITY_DN11687_c0_g1_i2::g.8407::m.8407	0	647	XP_018837102.1	chromatin assembly factor 1 subunit A isoform X1	Juglans regia	XP_018837103.1
TRINITY_DN12590_c1_g3::TRINITY_DN12590_c1_g3_i2::g.13976::m.13976	6,75E-161	451	XP_018825081.1	gamma carbonic anhydrase-like 2, mitochondrial	Juglans regia	KDP22602.1
TRINITY_DN15601_c2_g1::TRINITY_DN15601_c2_g1_i1::g.52933::m.52933						
TRINITY_DN17527_c0_g3::TRINITY_DN17527_c0_g3_i1::g.85247::m.85247	0	831	XP_018818792.1	molybdate-anion transporter-like	Juglans regia	XP_018842813.1
TRINITY_DN12826_c0_g1::TRINITY_DN12826_c0_g1_i1::g.16222::m.16222	0	526	XP_018807335.1	endonuclease 4-like	Juglans regia	XP_008371307.1
TRINITY_DN19082_c3_g1::TRINITY_DN19082_c3_g1_i2::g.111610::m.111610	3,79E-109	313	XP_016176151.1	transmembrane protein 205	Arachis ipaensis	XP_015938890.1
TRINITY_DN19829_c1_g1::TRINITY_DN19829_c1_g1_i2::g.124633::m.124633	0	697	XP_018826456.1	uncharacterized protein LOC108995353	Juglans regia	OAY48056.1
TRINITY_DN16466_c0_g3::TRINITY_DN16466_c0_g3_i1::g.67992::m.67992	0	567	XP_018823768.1	protein EARLY-RESPONSIVE TO DEHYDRATION 7, chloroplastic-like	Juglans regia	XP_018823769.1
TRINITY_DN12480_c0_g2::TRINITY_DN12480_c0_g2_i1::g.13216::m.13216	7,75E-73	216	XP_018809915.1	uncharacterized protein LOC108982896	Juglans regia	XP_018809916.1
TRINITY_DN14710_c1_g4::TRINITY_DN14710_c1_g4_i3::g.41054::m.41054	0	1422	XP_018843379.1	protein ROOT HAIR DEFECTIVE 3-like	Juglans regia	XP_008228296.1
TRINITY_DN17564_c2_g2::TRINITY_DN17564_c2_g2_i5::g.86079::m.86079	0	740	XP_018851337.1	acetolactate synthase small subunit 2, chloroplastic-like isoform X1	Juglans regia	XP_018851338.1
TRINITY_DN13661_c3_g4::TRINITY_DN13661_c3_g4_i1::g.26847::m.26847	3,44E-112	319	XP_008394324.1	eukaryotic translation initiation factor 5A-2-like	Malus domestica	XP_008343897.1
TRINITY_DN12154_c0_g1::TRINITY_DN12154_c0_g1_i6::g.10864::m.10864	1,71E-103	311	XP_018849569.1	multiple organellar RNA editing factor 8, chloroplastic/mitochondrial	Juglans regia	KDP36270.1
TRINITY_DN19326_c2_g1::TRINITY_DN19326_c2_g1_i5::g.116051::m.116051	0	1711	ONI05682.1	hypothetical protein PRUPE_5G018900	Prunus persica	ONI05683.1
TRINITY_DN19798_c2_g2::TRINITY_DN19798_c2_g2_i18::g.123759::m.123759	0	1006	OAY26193.1	hypothetical protein MANES_16G027900	Manihot esculenta	KDP20974.1
TRINITY_DN19717_c0_g1::TRINITY_DN19717_c0_g1_i2::g.122513::m.122513	0	797	XP_018837241.1	CAAX prenyl protease 1 homolog	Juglans regia	ONI23213.1

TRINITY_DN17321_c2_g2::TRINITY_DN17321_c2_g2_i3::g.82053::m.82053	1,06E-132	381	XP_018825826.1	ferritin-3, chloroplastic-like	Juglans regia	AJK93885.1
TRINITY_DN16262_c1_g2::TRINITY_DN16262_c1_g2_i1::g.64873::m.64873	5,74E-58	187	KHN32164.1	Endoglucanase 16	Glycine soja	KRH52260.1
TRINITY_DN17928_c2_g1::TRINITY_DN17928_c2_g1_i2::g.92278::m.92278	2,08E-160	449	XP_018827791.1	probable carboxylesterase SOBER1-like	Juglans regia	OAY25864.1
TRINITY_DN19464_c2_g1::TRINITY_DN19464_c2_g1_i8::g.118275::m.118275	7,00E-169	470	KDP41459.1	hypothetical protein JCGZ_15866	Jatropha curcas	XP_012067968.1
TRINITY_DN18987_c4_g5::TRINITY_DN18987_c4_g5_i1::g.110067::m.110067	2,91E-52	176	XP_018857833.1	uncharacterized protein LOC109019909, partial	Juglans regia	XP_018852053.1
TRINITY_DN18350_c0_g4::TRINITY_DN18350_c0_g4_i3::g.99164::m.99164	0	531	XP_018813115.1	fasciclin-like arabinogalactan protein 1	Juglans regia	OAY28350.1
TRINITY_DN18760_c9_g3::TRINITY_DN18760_c9_g3_i2::g.106074::m.106074	2,13E-98	305	XP_018841471.1	beta-galactosidase 13-like	Juglans regia	XP_008347518.1
TRINITY_DN17826_c0_g3::TRINITY_DN17826_c0_g3_i6::g.90229::m.90229	3,04E-93	275	XP_018841452.1	dirigent protein 23-like	Juglans regia	KDP27569.1
TRINITY_DN19627_c1_g2::TRINITY_DN19627_c1_g2_i4::g.121159::m.121159	0	582	XP_018817804.1	leucine--tRNA ligase, cytoplasmic isoform X1	Juglans regia	XP_018817805.1
TRINITY_DN19425_c1_g1::TRINITY_DN19425_c1_g1_i1::g.117994::m.117994	0	561	XP_018842494.1	uncharacterized protein LOC109007319	Juglans regia	ONH94022.1
TRINITY_DN13200_c1_g3::TRINITY_DN13200_c1_g3_i1::g.20941::m.20941	2,77E-108	310	XP_018835316.1	peptidyl-prolyl cis-trans isomerase CYP18-2	Juglans regia	ONH96008.1
TRINITY_DN14744_c0_g1::TRINITY_DN14744_c0_g1_i1::g.41504::m.41504	0	688	XP_018848695.1	protein disulfide-isomerase 5-2-like	Juglans regia	XP_018821144.1
TRINITY_DN16218_c1_g2::TRINITY_DN16218_c1_g2_i6::g.64375::m.64375	6,02E-140	395	XP_018824217.1	CBS domain-containing protein CBSX1, chloroplastic	Juglans regia	XP_018824481.1
TRINITY_DN19518_c0_g1::TRINITY_DN19518_c0_g1_i9::g.119130::m.119130	3,00E-91	268	XP_018858776.1	IN2-2 protein-like, partial	Juglans regia	KYP64861.1
TRINITY_DN19578_c1_g1::TRINITY_DN19578_c1_g1_i2::g.120062::m.120062	0	724	XP_018843078.1	calponin homology domain-containing protein DDB_G0272472	Juglans regia	XP_018843078.1
TRINITY_DN15774_c2_g1::TRINITY_DN15774_c2_g1_i10::g.56953::m.56953	0	1817	XP_012082774.1	inositol hexakisphosphate and diphosphoinositol-pentakisphosphate kinase 1 isoform X5	Jatropha curcas	XP_012082766.1
TRINITY_DN18433_c1_g4::TRINITY_DN18433_c1_g4_i1::g.100393::m.100393	2,17E-169	474	XP_018830580.1	eukaryotic translation initiation factor 3 subunit G-A-like	Juglans regia	XP_018835374.1
TRINITY_DN12393_c0_g1::TRINITY_DN12393_c0_g1_i2::g.12483::m.12483	0	651	XP_018835130.1	uncharacterized oxidoreductase At4g09670-like	Juglans regia	XP_018835132.1
TRINITY_DN14525_c1_g1::TRINITY_DN14525_c1_g1_i2::g.38384::m.38384	0	1318	XP_018845402.1	acyl-coenzyme A oxidase 2, peroxisomal	Juglans regia	XP_009345476.1
TRINITY_DN19854_c2_g1::TRINITY_DN19854_c2_g1_i1::g.124554::m.124554	6,17E-175	516	XP_018842400.1	eukaryotic translation initiation factor 3 subunit C isoform X1	Juglans regia	XP_018842401.1
TRINITY_DN16619_c0_g1::TRINITY_DN16619_c0_g1_i7::g.70514::m.70514	0	917	XP_018835103.1	threonine synthase, chloroplastic-like	Juglans regia	XP_020964169.1
TRINITY_DN11003_c0_g3::TRINITY_DN11003_c0_g3_i1::g.6096::m.6096	3,84E-59	182	XP_018812411.1	10 kDa chaperonin-like	Juglans regia	XP_018812412.1

TRINITY_DN12512_c0_g1::TRINITY_DN12512_c0_g1_i7::g.13451::m.13451	2,09E-80	236	XP_018812440.1	uncharacterized protein LOC108984828	Juglans regia	XP_018812441.1
TRINITY_DN12275_c0_g1::TRINITY_DN12275_c0_g1_i2::g.11548::m.11548	1,51E-153	432	XP_018818651.1	40S ribosomal protein S3a-like	Juglans regia	XP_018826766.1
TRINITY_DN19290_c6_g1::TRINITY_DN19290_c6_g1_i1::g.115224::m.115224	0	822	XP_018835920.1	cysteine desulfurase, mitochondrial	Juglans regia	KRH28308.1
TRINITY_DN13198_c0_g2::TRINITY_DN13198_c0_g2_i2::g.20890::m.20890	5,58E-52	170	KDP41286.1	hypothetical protein JCGZ_15693	Jatropha curcas	AGL39707.1
TRINITY_DN16577_c0_g1::TRINITY_DN16577_c0_g1_i6::g.69863::m.69863	2,79E-148	419	ONH97761.1	hypothetical protein PRUPE_7G208200	Prunus persica	XP_007202368.1
TRINITY_DN18300_c1_g1::TRINITY_DN18300_c1_g1_i6::g.96808::m.96808	1,44E-82	244	XP_018858686.1	mitochondrial fission 1 protein A-like	Juglans regia	XP_018858687.1
TRINITY_DN14139_c1_g3::TRINITY_DN14139_c1_g3_i2::g.32774::m.32774	0	850	XP_018846328.1	asparagine--tRNA ligase, cytoplasmic 1 isoform X1	Juglans regia	XP_019436209.1
TRINITY_DN16286_c1_g1::TRINITY_DN16286_c1_g1_i5::g.65098::m.65098	0	640	XP_018817568.1	probable ADP-ribosylation factor GTPase-activating protein AGD9 isoform X1	Juglans regia	XP_018817570.1
TRINITY_DN15944_c0_g3::TRINITY_DN15944_c0_g3_i1::g.58792::m.58792	1,54E-54	171	XP_018825951.1	40S ribosomal protein S21-2-like	Juglans regia	XP_018825952.1
TRINITY_DN14872_c2_g1::TRINITY_DN14872_c2_g1_i7::g.43673::m.43673	0	950	XP_018826109.1	bifunctional 3-dehydroquinate dehydratase/shikimate dehydrogenase, chloroplastic-like isoform X1	Juglans regia	XP_018840587.1
TRINITY_DN14391_c2_g1::TRINITY_DN14391_c2_g1_i3::g.36277::m.36277	3,05E-10	59,3	XP_018832312.1	GDSL esterase/lipase At3g48460-like, partial	Juglans regia	XP_018855251.1
TRINITY_DN16836_c1_g1::TRINITY_DN16836_c1_g1_i8::g.74234::m.74234	0	2199	XP_018817814.1	cullin-associated NEDD8-dissociated protein 1	Juglans regia	OAY45096.1
TRINITY_DN17195_c1_g1::TRINITY_DN17195_c1_g1_i2::g.79932::m.79932	0	1309	XP_018848394.1	phosphatidylinositol 4-phosphate 5-kinase 4-like	Juglans regia	XP_018860125.1
TRINITY_DN15687_c3_g1::TRINITY_DN15687_c3_g1_i1::g.55726::m.55726	5,17E-87	256	XP_018816906.1	uncharacterized protein LOC108988199 isoform X2	Juglans regia	XP_018816905.1
TRINITY_DN19945_c1_g2::TRINITY_DN19945_c1_g2_i9::g.126623::m.126623	0	798	XP_018815121.1	probable plastidic glucose transporter 2	Juglans regia	KDP33696.1
TRINITY_DN16932_c1_g1::TRINITY_DN16932_c1_g1_i8::g.75833::m.75833	3,03E-80	243	XP_020218942.1	uncharacterized protein LOC109802131	Cajanus cajan	XP_020996584.1
TRINITY_DN18681_c1_g1::TRINITY_DN18681_c1_g1_i1::g.104540::m.104540	2,26E-134	383	XP_018826389.1	probable NAD(P)H dehydrogenase (quinone) FQR1-like 2	Juglans regia	OAY33932.1
TRINITY_DN15903_c3_g2::TRINITY_DN15903_c3_g2_i1::g.58748::m.58748	2,68E-49	159	XP_018818244.1	uncharacterized protein LOC108989175	Juglans regia	KDP45236.1
TRINITY_DN17228_c0_g2::TRINITY_DN17228_c0_g2_i3::g.80435::m.80435	3,84E-78	230	XP_019444292.1	60S ribosomal protein L24-like isoform X2	Lupinus angustifolius	KRH20034.1
TRINITY_DN16216_c0_g1::TRINITY_DN16216_c0_g1_i6::g.64074::m.64074	0	1790	XP_018813272.1	AP-2 complex subunit alpha-1-like	Juglans regia	XP_018833174.1
TRINITY_DN18444_c3_g2::TRINITY_DN18444_c3_g2_i4::g.100535::m.100535	0	1096	XP_018844348.1	N-alpha-acetyltransferase 16, NatA auxiliary subunit-like	Juglans regia	XP_018845079.1

TRINITY_DN12460_c3_g3::TRINITY_DN12460_c3_g3_i1::g.13367::m.13367	1,62E-57	190	XP_018831476.1	uncharacterized protein At4g06744-like	Juglans regia	XP_018859113.1
TRINITY_DN13616_c0_g1::TRINITY_DN13616_c0_g1_i3::g.26276::m.26276	3,74E-98	284	XP_018830449.1	UPF0678 fatty acid-binding protein-like protein At1g79260 isoform X1	Juglans regia	XP_018830450.1
TRINITY_DN18246_c0_g1::TRINITY_DN18246_c0_g1_i3::g.96857::m.96857	0	854	XP_018842344.1	adenylosuccinate synthetase 2, chloroplastic	Juglans regia	KDP26008.1
TRINITY_DN19723_c2_g1::TRINITY_DN19723_c2_g1_i1::g.122855::m.122855	4,85E-81	250	XP_018814264.1	phosphomethylethanolamine N-methyltransferase-like	Juglans regia	ONI09335.1
TRINITY_DN13123_c3_g2::TRINITY_DN13123_c3_g2_i7::g.20202::m.20202	3,87E-165	459	XP_018820822.1	(DL)-glycerol-3-phosphatase 2	Juglans regia	XP_008223698.1
TRINITY_DN18029_c5_g2::TRINITY_DN18029_c5_g2_i4::g.93978::m.93978	0	1050	XP_018839707.1	phospholipid:diacylglycerol acyltransferase 1 isoform X1	Juglans regia	OAY36448.1
TRINITY_DN11846_c0_g3::TRINITY_DN11846_c0_g3_i2::g.9155::m.9155	6,71E-17	79,7	XP_018806898.1	lysine--tRNA ligase, cytoplasmic isoform X2	Juglans regia	XP_018806897.1
TRINITY_DN14246_c2_g1::TRINITY_DN14246_c2_g1_i1::g.34260::m.34260	0	541	XP_018846970.1	ADP-glucose phosphorylase-like isoform X1	Juglans regia	OAY41942.1
TRINITY_DN18272_c3_g3::TRINITY_DN18272_c3_g3_i3::g.97910::m.97910	0	765	XP_018845584.1	cytokinin dehydrogenase 2-like	Juglans regia	XP_008242393.1
TRINITY_DN16015_c1_g1::TRINITY_DN16015_c1_g1_i9::g.60551::m.60551	3,54E-144	408	XP_018809603.1	syntaxin-22-like	Juglans regia	XP_018809113.1
TRINITY_DN17938_c1_g3::TRINITY_DN17938_c1_g3_i1::g.92335::m.92335	1,49E-140	406	XP_018829254.1	glutamate--cysteine ligase, chloroplastic	Juglans regia	XP_018829255.1
TRINITY_DN13436_c3_g2::TRINITY_DN13436_c3_g2_i1::g.23914::m.23914	0	696	XP_018837387.1	acetyl-CoA acetyltransferase, cytosolic 1	Juglans regia	OAY34999.1
TRINITY_DN19570_c1_g1::TRINITY_DN19570_c1_g1_i2::g.119952::m.119952	4,47E-136	388	XP_018831496.1	(-)-isopiperitenol/(-)-carveol dehydrogenase, mitochondrial-like	Juglans regia	XP_018816008.1
TRINITY_DN19058_c2_g1::TRINITY_DN19058_c2_g1_i7::g.111114::m.111114	3,56E-163	469	ONI04889.1	hypothetical protein PRUPE_6G346300	Prunus persica	XP_007208154.2
TRINITY_DN12832_c2_g7::TRINITY_DN12832_c2_g7_i2::g.16314::m.16314	5,76E-168	471	KDP24066.1	hypothetical protein JCGZ_25723	Jatropha curcas	XP_012088199.1
TRINITY_DN17735_c1_g1::TRINITY_DN17735_c1_g1_i1::g.89033::m.89033	3,91E-101	296	OAY34830.1	hypothetical protein MANES_12G050000	Manihot esculenta	KDP45282.1
TRINITY_DN10960_c0_g1::TRINITY_DN10960_c0_g1_i2::g.5906::m.5906	1,05E-138	405	XP_018823263.1	probable mediator of RNA polymerase II transcription subunit 37c	Juglans regia	XP_018823263.1
TRINITY_DN13066_c0_g1::TRINITY_DN13066_c0_g1_i8::g.19396::m.19396	9,47E-144	402	XP_008237447.1	ras-related protein Rab7	Prunus mume	ONH90275.1
TRINITY_DN12323_c0_g2::TRINITY_DN12323_c0_g2_i9::g.11969::m.11969	0	873	XP_018846853.1	RAN GTPase-activating protein 2	Juglans regia	XP_018846854.1
TRINITY_DN18848_c2_g2::TRINITY_DN18848_c2_g2_i6::g.107389::m.107389	1,27E-43	152	XP_019452405.1	ubiquitin receptor RAD23c-like isoform X5	Lupinus angustifolius	XP_019441388.1
TRINITY_DN19795_c3_g1::TRINITY_DN19795_c3_g1_i8::g.123663::m.123663	3,07E-56	174	XP_018852827.1	V-type proton ATPase subunit G-like	Juglans regia	XP_018852828.1
TRINITY_DN17387_c1_g1::TRINITY_DN17387_c1_g1_i3::g.82928::m.82928	0	2407	XP_018834376.1	clustered mitochondria protein	Juglans regia	XP_008231340.1

TRINITY_DN13841_c4_g1::TRINITY_DN13841_c4_g1_i7::g.28424::m.28424	0	711	XP_018816748.1	protein DJ-1 homolog D-like	Juglans regia	XP_018816749.1
TRINITY_DN12837_c2_g2::TRINITY_DN12837_c2_g2_i2::g.16573::m.16573	1,38E-113	336	XP_018847365.1	probable polygalacturonase	Juglans regia	XP_018847358.1
TRINITY_DN16782_c2_g2::TRINITY_DN16782_c2_g2_i4::g.73167::m.73167	5,83E-62	200	KDP43847.1	hypothetical protein JCGZ_20857	Jatropha curcas	XP_012065174.1
TRINITY_DN18666_c0_g1::TRINITY_DN18666_c0_g1_i7::g.104181::m.104181	4,75E-113	332	XP_018815210.1	UDP-glucuronic acid decarboxylase 2-like	Juglans regia	XP_008386777.1
TRINITY_DN19251_c1_g2::TRINITY_DN19251_c1_g2_i27::g.114997::m.114997	2,28E-119	352	XP_018851524.1	mitogen-activated protein kinase 9-like isoform X2	Juglans regia	XP_018851523.1
TRINITY_DN13809_c0_g1::TRINITY_DN13809_c0_g1_i2::g.28550::m.28550	0	717	XP_018829285.1	tyrosine--tRNA ligase 1, cytoplasmic	Juglans regia	XP_007156912.1
TRINITY_DN19468_c2_g2::TRINITY_DN19468_c2_g2_i2::g.118324::m.118324	2,81E-113	331	KOM53769.1	hypothetical protein LR48_Vigan09g242800	Vigna angularis	XP_018852431.1
TRINITY_DN16852_c0_g1::TRINITY_DN16852_c0_g1_i5::g.74328::m.74328	1,07E-86	256	XP_018849247.1	ribulose-phosphate 3-epimerase, cytoplasmic isoform	Juglans regia	XP_008341322.1
TRINITY_DN16408_c1_g1::TRINITY_DN16408_c1_g1_i1::g.67131::m.67131	0	853	XP_018844988.1	nicotinate phosphoribosyltransferase 1	Juglans regia	XP_008241476.1
TRINITY_DN11560_c0_g1::TRINITY_DN11560_c0_g1_i1::g.7865::m.7865	0	678	XP_018830668.1	sorbitol dehydrogenase	Juglans regia	OAY48230.1
TRINITY_DN19263_c0_g1::TRINITY_DN19263_c0_g1_i6::g.114813::m.114813	0	535	XP_018837044.1	probable cytosolic oligopeptidase A	Juglans regia	XP_018850785.1
TRINITY_DN19101_c2_g2::TRINITY_DN19101_c2_g2_i4::g.111950::m.111950	0	880	XP_018808839.1	pyridoxine/pyridoxamine 5'-phosphate oxidase 1, chloroplastic isoform X1	Juglans regia	XP_018808840.1
TRINITY_DN19615_c0_g1::TRINITY_DN19615_c0_g1_i7::g.122149::m.122149	0	1467	XP_018841554.1	actin cytoskeleton-regulatory complex protein PAN1-like isoform X1	Juglans regia	XP_018841555.1
TRINITY_DN18862_c1_g2::TRINITY_DN18862_c1_g2_i1::g.107502::m.107502	0	704	XP_018837796.1	argininosuccinate lyase, chloroplastic	Juglans regia	XP_009350549.1
TRINITY_DN14909_c1_g5::TRINITY_DN14909_c1_g5_i1::g.44180::m.44180	0	1631	XP_018828503.1	protein TIC110, chloroplastic isoform X1	Juglans regia	XP_018828504.1
TRINITY_DN17699_c0_g2::TRINITY_DN17699_c0_g2_i2::g.88416::m.88416	0	3119	XP_018826298.1	ferredoxin-dependent glutamate synthase, chloroplastic-like isoform X1	Juglans regia	XP_018848396.1
TRINITY_DN11338_c0_g1::TRINITY_DN11338_c0_g1_i3::g.7037::m.7037	0	793	XP_018827777.1	carbamoyl-phosphate synthase small chain, chloroplastic	Juglans regia	XP_009364736.1
TRINITY_DN17067_c2_g2::TRINITY_DN17067_c2_g2_i1::g.77907::m.77907	0	568	XP_008381007.1	dihydrolipoyllysine-residue acetyltransferase component 5 of pyruvate dehydrogenase complex, chloroplastic	Malus domestica	OAY58590.1
TRINITY_DN17136_c2_g3::TRINITY_DN17136_c2_g3_i6::g.79230::m.79230	8,16E-85	249	ONH97139.1	hypothetical protein PRUPE_7G171700	Prunus persica	ACM68949.1
TRINITY_DN15761_c1_g2::TRINITY_DN15761_c1_g2_i2::g.56714::m.56714	0	863	OAY48299.1	hypothetical protein MANES_06G147900	Manihot esculenta	XP_008234243.1
TRINITY_DN18490_c1_g1::TRINITY_DN18490_c1_g1_i2::g.101177::m.101177	0	736	ADZ96378.1	hexokinase 1	Eriobotrya japonica	ONI15732.1

TRINITY_DN11842_c0_g1::TRINITY_DN11842_c0_g1_i5::g.9125::m.9125	0	941	XP_018808643.1	serine/threonine-protein phosphatase 5 isoform X2	Juglans regia	XP_012084998.1
TRINITY_DN14684_c2_g1::TRINITY_DN14684_c2_g1_i9::g.40676::m.40676	5,19E-149	416	XP_018810806.1	adenylyl-sulfate kinase 3	Juglans regia	XP_018810807.1
TRINITY_DN17978_c0_g1::TRINITY_DN17978_c0_g1_i12::g.93003::m.93003	0	681	XP_018847824.1	phenylalanine--tRNA ligase alpha subunit, cytoplasmic	Juglans regia	XP_014494097.1
TRINITY_DN14251_c1_g2::TRINITY_DN14251_c1_g2_i7::g.34536::m.34536	8,83E-156	438	XP_018837663.1	HD domain-containing protein C4G3.17	Juglans regia	ONI31245.1
TRINITY_DN15354_c0_g1::TRINITY_DN15354_c0_g1_i1::g.50622::m.50622	0	1526	XP_018857605.1	urease	Juglans regia	XP_018857607.1
TRINITY_DN14014_c3_g1::TRINITY_DN14014_c3_g1_i1::g.31362::m.31362	7,58E-24	98,6	XP_012069043.1	uncharacterized protein LOC105631511	Jatropha curcas	KDP43847.1
TRINITY_DN14788_c0_g2::TRINITY_DN14788_c0_g2_i4::g.42257::m.42257	6,41E-103	301	XP_018825937.1	GDSL esterase/lipase CPRD49-like	Juglans regia	AFK45704.1
TRINITY_DN14955_c4_g2::TRINITY_DN14955_c4_g2_i6::g.44900::m.44900	1,08E-121	352	XP_018839624.1	probable calcium-binding protein CML49	Juglans regia	XP_018808876.1
TRINITY_DN10990_c0_g1::TRINITY_DN10990_c0_g1_i1::g.6030::m.6030	0	526	XP_018821285.1	triose phosphate/phosphate translocator, non-green plastid, chloroplastic-like	Juglans regia	XP_008239775.1
TRINITY_DN10710_c0_g1::TRINITY_DN10710_c0_g1_i1::g.5355::m.5355	1,93E-121	348	XP_018820917.1	multiple organellar RNA editing factor 2, chloroplastic-like	Juglans regia	OAY35808.1
TRINITY_DN17874_c2_g4::TRINITY_DN17874_c2_g4_i3::g.91179::m.91179	0	1060	XP_018839574.1	transmembrane 9 superfamily member 8-like	Juglans regia	ONI32921.1
TRINITY_DN16487_c1_g6::TRINITY_DN16487_c1_g6_i1::g.68386::m.68386	1,61E-53	180	ONI33944.1	hypothetical protein PRUPE_1G455000	Prunus persica	XP_020410106.1
TRINITY_DN19704_c0_g1::TRINITY_DN19704_c0_g1_i3::g.122553::m.122553	1,03E-89	265	OAY52558.1	hypothetical protein MANES_04G093300	Manihot esculenta	KOM26552.1
TRINITY_DN15899_c1_g1::TRINITY_DN15899_c1_g1_i1::g.58501::m.58501	2,93E-88	285	XP_018809774.1	protein transport protein SEC31 homolog B-like isoform X1	Juglans regia	XP_018809776.1
TRINITY_DN13705_c0_g2::TRINITY_DN13705_c0_g2_i4::g.27444::m.27444	0	531	ONH98930.1	hypothetical protein PRUPE_6G000600	Prunus persica	ONH98930.1
TRINITY_DN18855_c1_g1::TRINITY_DN18855_c1_g1_i19::g.107600::m.107600	0	1277	XP_018836237.1	probable sucrose-phosphate synthase 1	Juglans regia	ABV32550.1
TRINITY_DN17745_c1_g5::TRINITY_DN17745_c1_g5_i2::g.88501::m.88501	5,55E-33	115	XP_018859166.1	60S acidic ribosomal protein P1-like	Juglans regia	XP_018842776.1
TRINITY_DN10578_c0_g1::TRINITY_DN10578_c0_g1_i5::g.5050::m.5050	0	867	XP_018835696.1	DEAD-box ATP-dependent RNA helicase 52A-like isoform X1	Juglans regia	OAY24033.1
TRINITY_DN13945_c0_g1::TRINITY_DN13945_c0_g1_i2::g.30107::m.30107	0	516	XP_018840568.1	probable prolyl 4-hydroxylase 4	Juglans regia	KDP40054.1
TRINITY_DN19655_c2_g1::TRINITY_DN19655_c2_g1_i11::g.121761::m.121761	0	619	XP_018841063.1	26S protease regulatory subunit 8 homolog A	Juglans regia	OAY47083.1
TRINITY_DN9772_c0_g1::TRINITY_DN9772_c0_g1_i1::g.3863::m.3863	1,01E-60	185	XP_018826159.1	protein SLE1	Juglans regia	OAY41498.1
TRINITY_DN14598_c1_g3::TRINITY_DN14598_c1_g3_i4::g.39295::m.39295	0	698	XP_018830095.1	glycerol-3-phosphate acyltransferase, chloroplastic isoform X2	Juglans regia	XP_018830093.1

TRINITY_DN13423_c2_g1::TRINITY_DN13423_c2_g1_i2::g.23680::m.23680	4,85E-88	271	XP_018808540.1	TBCC domain-containing protein 1-like	Juglans regia	XP_018843632.1
TRINITY_DN13846_c2_g2::TRINITY_DN13846_c2_g2_i2::g.28548::m.28548	5,50E-148	413	XP_018844705.1	proteasome subunit beta type-3-A	Juglans regia	XP_016203278.1
TRINITY_DN13334_c3_g4::TRINITY_DN13334_c3_g4_i1::g.22910::m.22910	4,06E-97	298	XP_017180254.1	subtilisin-like protease SBT5.4	Malus domestica	XP_008353281.1
TRINITY_DN17504_c0_g1::TRINITY_DN17504_c0_g1_i2::g.84827::m.84827	8,29E-86	250	XP_018834779.1	probable histone H2A variant 3	Juglans regia	OAY31632.1
TRINITY_DN16041_c1_g2::TRINITY_DN16041_c1_g2_i6::g.61105::m.61105	0	520	XP_018824063.1	tryptophan synthase beta chain 1	Juglans regia	XP_018824072.1
TRINITY_DN13569_c0_g2::TRINITY_DN13569_c0_g2_i1::g.25677::m.25677	1,78E-179	501	XP_018827184.1	ABC transporter I family member 19-like	Juglans regia	AIU41666.1
TRINITY_DN11464_c0_g1::TRINITY_DN11464_c0_g1_i3::g.7465::m.7465	0	1373	XP_018843439.1	ALG-2 interacting protein X-like	Juglans regia	XP_018849759.1
TRINITY_DN15585_c1_g1::TRINITY_DN15585_c1_g1_i8::g.54308::m.54308	1,91E-69	213	XP_018810087.1	GDSL esterase/lipase CPRD49-like	Juglans regia	XP_018810088.1
TRINITY_DN15428_c6_g1::TRINITY_DN15428_c6_g1_i5::g.51800::m.51800	1,69E-78	233	XP_018835348.1	uncharacterized protein LOC109002166	Juglans regia	XP_018816039.1
TRINITY_DN18097_c14_g3::TRINITY_DN18097_c14_g3_i5::g.95141::m.95141	0	740	XP_018844419.1	3-oxoacyl-[acyl-carrier-protein synthase 3 A, chloroplastic-like	Juglans regia	XP_018848180.1
TRINITY_DN12611_c0_g2::TRINITY_DN12611_c0_g2_i7::g.14237::m.14237	3,40E-157	442	XP_018833326.1	protein-L-isoaspartate O-methyltransferase 1-like	Juglans regia	XP_018814971.1
TRINITY_DN14738_c2_g1::TRINITY_DN14738_c2_g1_i2::g.41499::m.41499	0	1063	XP_018827500.1	acetolactate synthase 2, chloroplastic	Juglans regia	XP_008376595.1
TRINITY_DN14357_c5_g2::TRINITY_DN14357_c5_g2_i13::g.35817::m.35817	1,67E-66	205	XP_007137680.1	hypothetical protein PHAVU_009G146600g	Phaseolus vulgaris	ESW09674.1
TRINITY_DN16879_c1_g4::TRINITY_DN16879_c1_g4_i3::g.74866::m.74866	0	1537	XP_018809958.1	chaperone protein ClpB1	Juglans regia	XP_015943335.1
TRINITY_DN16280_c0_g1::TRINITY_DN16280_c0_g1_i6::g.65080::m.65080	2,97E-161	454	AES76041.2	glutathione S-transferase	Medicago truncatula	XP_003619823.2
TRINITY_DN13851_c1_g1::TRINITY_DN13851_c1_g1_i8::g.29304::m.29304	0	900	XP_018811868.1	aspartic proteinase-like isoform X2	Juglans regia	XP_018811875.1
TRINITY_DN19385_c2_g1::TRINITY_DN19385_c2_g1_i11::g.117072::m.117072	8,62E-132	393	XP_018812895.1	uncharacterized protein LOC108985160 isoform X4	Juglans regia	XP_018812894.1
TRINITY_DN14233_c0_g1::TRINITY_DN14233_c0_g1_i2::g.34181::m.34181	0	865	XP_018807730.1	3-phosphoshikimate 1-carboxyvinyltransferase 2	Juglans regia	ONI22671.1
TRINITY_DN9198_c0_g1::TRINITY_DN9198_c0_g1_i1::g.3186::m.3186	0	800	XP_018813681.1	cell division protein FtsZ homolog 2-2, chloroplastic	Juglans regia	XP_018813682.1
TRINITY_DN15338_c2_g1::TRINITY_DN15338_c2_g1_i4::g.50559::m.50559	2,51E-106	303	OIV92449.1	hypothetical protein TanjilG_02212	Lupinus angustifolius	XP_019425255.1
TRINITY_DN16719_c0_g1::TRINITY_DN16719_c0_g1_i6::g.72195::m.72195	2,69E-94	292	XP_018822459.1	uncharacterized protein LOC108992363 isoform X5	Juglans regia	XP_018822460.1
TRINITY_DN18047_c0_g1::TRINITY_DN18047_c0_g1_i1::g.93485::m.93485	0	756	XP_018850838.1	MICOS complex subunit MIC60 isoform X1	Juglans regia	XP_018850839.1

TRINITY_DN12093_c0_g1::TRINITY_DN12093_c0_g1_i8::g.10458::m.10458	0	957	XP_018827269.1	glutathione reductase, chloroplastic-like	Juglans regia	XP_018827270.1
TRINITY_DN9933_c0_g1::TRINITY_DN9933_c0_g1_i1::g.4060::m.4060	8,73E-154	436	ONI24059.1	hypothetical protein PRUPE_2G221700	Prunus persica	XP_007218731.1
TRINITY_DN17539_c0_g2::TRINITY_DN17539_c0_g2_i3::g.85610::m.85610	0	1326	XP_018855488.1	protein TOC75-3, chloroplastic-like	Juglans regia	XP_008356781.1
TRINITY_DN12352_c0_g2::TRINITY_DN12352_c0_g2_i4::g.12096::m.12096	1,14E-149	432	XP_018844632.1	vacuolar-processing enzyme-like	Juglans regia	XP_018844633.1
TRINITY_DN12828_c0_g1::TRINITY_DN12828_c0_g1_i2::g.16430::m.16430	6,84E-80	238	XP_017185326.1	ras-related protein RABF1 isoform X2	Malus domestica	XP_008362670.1
TRINITY_DN17150_c2_g1::TRINITY_DN17150_c2_g1_i7::g.79332::m.79332	8,66E-172	477	XP_018824212.1	proteasome subunit alpha type-4	Juglans regia	XP_008371922.1
TRINITY_DN15988_c0_g1::TRINITY_DN15988_c0_g1_i7::g.59999::m.59999	0	693	XP_018832925.1	protein ABC transporter 1, mitochondrial	Juglans regia	OAY48812.1
TRINITY_DN19643_c4_g1::TRINITY_DN19643_c4_g1_i10::g.121539::m.121539	0	728	XP_018838778.1	L-ascorbate oxidase-like	Juglans regia	XP_018850832.1
TRINITY_DN14785_c0_g1::TRINITY_DN14785_c0_g1_i8::g.42289::m.42289	0	606	XP_018810986.1	protein disulfide-isomerase 5-3-like	Juglans regia	XP_009378812.1
TRINITY_DN16927_c0_g1::TRINITY_DN16927_c0_g1_i2::g.75647::m.75647	2,40E-142	402	XP_018805885.1	derlin-2.2-like	Juglans regia	XP_018807331.1
TRINITY_DN18066_c0_g3::TRINITY_DN18066_c0_g3_i5::g.94429::m.94429	3,60E-117	333	XP_018815941.1	malignant T-cell-amplified sequence 1 homolog	Juglans regia	OAY44020.1
TRINITY_DN15763_c0_g1::TRINITY_DN15763_c0_g1_i1::g.56716::m.56716	0	1172	OAY34927.1	hypothetical protein MANES_12G058500	Manihot esculenta	XP_012084017.1
TRINITY_DN17933_c0_g2::TRINITY_DN17933_c0_g2_i1::g.92168::m.92168	8,98E-75	222	XP_018852394.1	cytochrome b5	Juglans regia	OAY59358.1
TRINITY_DN16282_c1_g3::TRINITY_DN16282_c1_g3_i1::g.64973::m.64973	0	915	XP_008386115.1	phospho-2-dehydro-3-deoxyheptonate aldolase 1, chloroplastic-like	Malus domestica	ALE18236.1
TRINITY_DN10432_c0_g1::TRINITY_DN10432_c0_g1_i2::g.4807::m.4807	1,20E-83	245	XP_008235643.1	60S ribosomal protein L14-1	Prunus mume	ONH93236.1
TRINITY_DN18168_c0_g1::TRINITY_DN18168_c0_g1_i2::g.96274::m.96274	2,00E-09	58,2	XP_018827742.1	protein starmaker isoform X1	Juglans regia	XP_018827747.1
TRINITY_DN14775_c0_g2::TRINITY_DN14775_c0_g2_i2::g.42036::m.42036	0	804	XP_018811216.1	multiple inositol polyphosphate phosphatase 1	Juglans regia	XP_008233804.1
TRINITY_DN18002_c1_g3::TRINITY_DN18002_c1_g3_i1::g.93438::m.93438	0	795	XP_018852306.1	endoglucanase 10	Juglans regia	OAY50597.1
TRINITY_DN16157_c0_g1::TRINITY_DN16157_c0_g1_i7::g.62500::m.62500	0	926	XP_018829077.1	sterol 14-demethylase	Juglans regia	XP_018841630.1
TRINITY_DN13818_c0_g2::TRINITY_DN13818_c0_g2_i1::g.28967::m.28967	0	765	XP_018857848.1	ATP-citrate synthase alpha chain protein 2	Juglans regia	XP_018805227.1
TRINITY_DN11548_c0_g1::TRINITY_DN11548_c0_g1_i1::g.7714::m.7714	0	727	XP_018818640.1	uncharacterized protein LOC108989478	Juglans regia	XP_016171978.1
TRINITY_DN17145_c0_g1::TRINITY_DN17145_c0_g1_i4::g.79323::m.79323	0	1529	XP_018835615.1	clathrin heavy chain 2	Juglans regia	XP_018819181.1

TRINITY_DN17214_c1_g1::TRINITY_DN17214_c1_g1_i9::g.80183::m.80183	0	521	XP_018836625.1	tryptophan--tRNA ligase, cytoplasmic	Juglans regia	XP_019462109.1
TRINITY_DN19434_c1_g1::TRINITY_DN19434_c1_g1_i6::g.117945::m.117945	2,17E-99	290	XP_018840400.1	syntaxin-61-like	Juglans regia	XP_018840401.1
TRINITY_DN11638_c0_g1::TRINITY_DN11638_c0_g1_i1::g.8051::m.8051	0	657	XP_008233415.1	uncharacterized aarF domain-containing protein kinase At1g79600, chloroplastic	Prunus mume	ONI05293.1
TRINITY_DN12478_c4_g4::TRINITY_DN12478_c4_g4_i5::g.13332::m.13332	1,81E-65	213	XP_018836693.1	uncharacterized protein LOC109003142	Juglans regia	XP_018836693.1
TRINITY_DN16700_c3_g3::TRINITY_DN16700_c3_g3_i4::g.71827::m.71827	5,89E-71	216	XP_016176378.1	40S ribosomal protein S8	Arachis ipaensis	XP_014496519.1
TRINITY_DN14707_c0_g2::TRINITY_DN14707_c0_g2_i9::g.40985::m.40985	0	823	XP_018837001.1	RAN GTPase-activating protein 1	Juglans regia	XP_018837002.1
TRINITY_DN19896_c2_g1::TRINITY_DN19896_c2_g1_i4::g.125437::m.125437	8,53E-169	495	XP_018842420.1	uncharacterized protein LOC109007267	Juglans regia	XP_018842421.1
TRINITY_DN13645_c2_g2::TRINITY_DN13645_c2_g2_i6::g.26141::m.26141	1,18E-84	254	XP_018851775.1	ribonuclease P protein subunit p25-like protein	Juglans regia	KYP44772.1
TRINITY_DN11142_c1_g1::TRINITY_DN11142_c1_g1_i2::g.6468::m.6468	4,79E-134	379	XP_018811802.1	eukaryotic translation initiation factor 3 subunit K-like	Juglans regia	KDP33976.1
TRINITY_DN15069_c1_g1::TRINITY_DN15069_c1_g1_i6::g.46552::m.46552	1,93E-52	169	XP_018809557.1	rho GDP-dissociation inhibitor 1-like isoform X1	Juglans regia	XP_018809558.1
TRINITY_DN18921_c0_g1::TRINITY_DN18921_c0_g1_i2::g.108916::m.108916	0	1135	XP_018809732.1	SEC1 family transport protein SLY1-like	Juglans regia	OAY57009.1
TRINITY_DN19606_c0_g1::TRINITY_DN19606_c0_g1_i4::g.121009::m.121009	8,82E-134	384	XP_018842448.1	cysteine synthase	Juglans regia	XP_018842449.1
TRINITY_DN15436_c5_g1::TRINITY_DN15436_c5_g1_i4::g.51870::m.51870	0	606	XP_018839647.1	eukaryotic translation initiation factor 3 subunit A-like	Juglans regia	XP_018839648.1
TRINITY_DN18704_c0_g1::TRINITY_DN18704_c0_g1_i1::g.104889::m.104889	0	844	XP_018843891.1	DEAD-box ATP-dependent RNA helicase 53-like	Juglans regia	XP_008229751.1
TRINITY_DN11290_c1_g1::TRINITY_DN11290_c1_g1_i4::g.6884::m.6884	4,84E-75	223	XP_018841009.1	uncharacterized protein At2g34160-like	Juglans regia	XP_018858938.1
TRINITY_DN17528_c1_g2::TRINITY_DN17528_c1_g2_i6::g.85342::m.85342	0	1179	XP_018824324.1	dynamin-related protein 5A	Juglans regia	XP_018857541.1
TRINITY_DN15505_c1_g1::TRINITY_DN15505_c1_g1_i3::g.53026::m.53026	1,13E-37	134	XP_018828132.1	maltose excess protein 1-like, chloroplastic isoform X2	Juglans regia	XP_018828131.1
TRINITY_DN11648_c0_g3::TRINITY_DN11648_c0_g3_i1::g.8240::m.8240	1,36E-59	183	XP_018823473.1	prefoldin subunit 1	Juglans regia	OAY58676.1
TRINITY_DN14322_c1_g1::TRINITY_DN14322_c1_g1_i1::g.35379::m.35379	0	818	XP_018809613.1	alanine--glyoxylate aminotransferase 2 homolog 1, mitochondrial	Juglans regia	OAY33360.1
TRINITY_DN19908_c2_g1::TRINITY_DN19908_c2_g1_i5::g.125911::m.125911	1,72E-119	356	XP_018811830.1	exocyst complex component EXO70B1	Juglans regia	ONI29902.1
TRINITY_DN19181_c1_g1::TRINITY_DN19181_c1_g1_i4::g.113426::m.113426	0	542	XP_018857004.1	4-hydroxyphenylpyruvate dioxygenase	Juglans regia	BAH10638.1
TRINITY_DN16453_c2_g1::TRINITY_DN16453_c2_g1_i14::g.67807::m.67807	0	892	XP_018819043.1	xaa-Pro dipeptidase	Juglans regia	XP_008242428.1

TRINITY_DN12583_c1_g3::TRINITY_DN12583_c1_g3_i1::g.14008::m.14008	0	554	OAY29057.1	hypothetical protein MANES_15G114600	Manihot esculenta	AMK38013.1
TRINITY_DN18832_c0_g1::TRINITY_DN18832_c0_g1_i1::g.107098::m.107098	9,14E-117	333	XP_018850349.1	temperature-induced lipocalin-1	Juglans regia	XP_018850350.1
TRINITY_DN14291_c3_g7::TRINITY_DN14291_c3_g7_i2::g.35143::m.35143	1,92E-118	341	XP_018828853.1	probable acetyltransferase NATA1-like	Juglans regia	OIW01482.1
TRINITY_DN19997_c3_g2::TRINITY_DN19997_c3_g2_i2::g.127405::m.127405	1,27E-72	221	GAU13824.1	hypothetical protein TSUD_261510	Trifolium subterraneum	KYP36617.1
TRINITY_DN13437_c3_g3::TRINITY_DN13437_c3_g3_i4::g.23371::m.23371	0	970	XP_019463977.1	transmembrane 9 superfamily member 3-like	Lupinus angustifolius	KHN28892.1
TRINITY_DN16324_c2_g1::TRINITY_DN16324_c2_g1_i11::g.65876::m.65876	0	1330	XP_018835648.1	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase-like isoform X1	Juglans regia	XP_018819189.1
TRINITY_DN14723_c2_g4::TRINITY_DN14723_c2_g4_i2::g.41268::m.41268	0	638	XP_018838198.1	uncharacterized protein LOC109004190	Juglans regia	XP_018829345.1
TRINITY_DN12136_c0_g1::TRINITY_DN12136_c0_g1_i2::g.10688::m.10688	0	774	XP_018833108.1	cysteine desulfurase 1, chloroplastic	Juglans regia	XP_012076008.1
TRINITY_DN19231_c4_g1::TRINITY_DN19231_c4_g1_i8::g.114359::m.114359	0	958	AIR95612.1	4-coumarate:CoA ligase-like protein	Betula pendula	XP_018858801.1
TRINITY_DN15458_c1_g3::TRINITY_DN15458_c1_g3_i6::g.52102::m.52102	1,19E-101	298	XP_018842307.1	ATP-dependent Clp protease proteolytic subunit 5, chloroplastic	Juglans regia	OIW12999.1
TRINITY_DN15082_c1_g1::TRINITY_DN15082_c1_g1_i1::g.46708::m.46708	0	1021	XP_018823898.1	L-ascorbate oxidase homolog	Juglans regia	OAY52251.1
TRINITY_DN19344_c5_g1::TRINITY_DN19344_c5_g1_i3::g.115614::m.115614	9,98E-33	128	XP_018845634.1	suppressor protein SRP40-like	Juglans regia	XP_008219941.1
TRINITY_DN14912_c1_g1::TRINITY_DN14912_c1_g1_i4::g.44268::m.44268	2,88E-164	464	XP_018839982.1	phosphoglycolate phosphatase 1B, chloroplastic-like	Juglans regia	KRH00963.1
TRINITY_DN13129_c8_g5::TRINITY_DN13129_c8_g5_i1::g.20297::m.20297	0	874	XP_018812297.1	sorting and assembly machinery component 50 homolog B-like	Juglans regia	XP_018821909.1
TRINITY_DN12983_c5_g1::TRINITY_DN12983_c5_g1_i4::g.18189::m.18189	0	669	XP_018835689.1	26S protease regulatory subunit 6B homolog	Juglans regia	XP_018828576.1
TRINITY_DN13073_c0_g1::TRINITY_DN13073_c0_g1_i2::g.19364::m.19364	0	1022	XP_018850821.1	inositol-3-phosphate synthase	Juglans regia	XP_018850822.1
TRINITY_DN14563_c5_g1::TRINITY_DN14563_c5_g1_i5::g.38974::m.38974	7,98E-116	334	XP_018854482.1	glucose-6-phosphate/phosphate translocator 1, chloroplastic-like	Juglans regia	XP_018854483.1
TRINITY_DN15029_c4_g1::TRINITY_DN15029_c4_g1_i3::g.45979::m.45979	5,53E-82	242	XP_018849696.1	probable NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 12	Juglans regia	XP_008234575.1
TRINITY_DN16123_c0_g2::TRINITY_DN16123_c0_g2_i3::g.62404::m.62404	0	826	XP_018812654.1	eukaryotic initiation factor 4A-3	Juglans regia	XP_018826866.1
TRINITY_DN13128_c0_g1::TRINITY_DN13128_c0_g1_i1::g.20153::m.20153	0	826	XP_018844115.1	DEAD-box ATP-dependent RNA helicase 38	Juglans regia	KDP29205.1
TRINITY_DN11467_c0_g1::TRINITY_DN11467_c0_g1_i3::g.7480::m.7480	0	1010	XP_018833292.1	uncharacterized protein LOC109000757	Juglans regia	OAY35008.1
TRINITY_DN16134_c1_g1::TRINITY_DN16134_c1_g1_i3::g.62771::m.62771	0	540	XP_018816315.1	ABC transporter I family member 20-like isoform X1	Juglans regia	AIU41667.1

TRINITY_DN12648_c0_g1::TRINITY_DN12648_c0_g1_i4::g.15036::m.15036	2,58E-149	416	XP_018847846.1	ras-related protein Rab7 isoform X1	Juglans regia	XP_018847847.1
TRINITY_DN17776_c1_g1::TRINITY_DN17776_c1_g1_i2::g.89554::m.89554	8,76E-70	216	XP_018835592.1	probable carboxylesterase 5	Juglans regia	KDP45172.1
TRINITY_DN17310_c0_g2::TRINITY_DN17310_c0_g2_i2::g.81838::m.81838	9,68E-134	390	XP_018845068.1	nuclear pore complex protein NUP50A-like	Juglans regia	XP_018845069.1
TRINITY_DN18211_c0_g1::TRINITY_DN18211_c0_g1_i1::g.96953::m.96953	1,84E-103	312	XP_018846385.1	probable nucleoredoxin 1	Juglans regia	XP_018846385.1
TRINITY_DN16650_c2_g2::TRINITY_DN16650_c2_g2_i4::g.71040::m.71040	9,15E-123	352	XP_018813211.1	uncharacterized protein LOC108985386 isoform X1	Juglans regia	AFK37701.1
TRINITY_DN17333_c5_g3::TRINITY_DN17333_c5_g3_i2::g.82453::m.82453	5,80E-148	419	XP_018826593.1	NAP1-related protein 2	Juglans regia	XP_018833970.1
TRINITY_DN12530_c0_g1::TRINITY_DN12530_c0_g1_i1::g.13568::m.13568	1,51E-68	213	XP_018833432.1	nascent polypeptide-associated complex subunit alpha-like protein 2	Juglans regia	XP_018842755.1
TRINITY_DN15837_c1_g2::TRINITY_DN15837_c1_g2_i3::g.57761::m.57761	0	791	XP_018830113.1	glutamate-1-semialdehyde 2,1-aminomutase 2, chloroplastic	Juglans regia	OAY47995.1
TRINITY_DN20022_c2_g5::TRINITY_DN20022_c2_g5_i1::g.128013::m.128013	2,56E-166	469	XP_018843798.1	OTU domain-containing protein 6B	Juglans regia	XP_018843799.1
TRINITY_DN18115_c1_g1::TRINITY_DN18115_c1_g1_i4::g.95413::m.95413	2,50E-101	296	KRH40130.1	hypothetical protein GLYMA_09G240300	Glycine max	KHN11589.1
TRINITY_DN15805_c1_g2::TRINITY_DN15805_c1_g2_i2::g.57262::m.57262	0	2385	XP_018813899.1	proteasome activator subunit 4-like	Juglans regia	KDP36327.1
TRINITY_DN15457_c3_g1::TRINITY_DN15457_c3_g1_i1::g.52194::m.52194	2,78E-14	67,4	XP_018856978.1	uncharacterized protein LOC109019191 isoform X2	Juglans regia	XP_018856977.1
TRINITY_DN14777_c1_g1::TRINITY_DN14777_c1_g1_i9::g.42089::m.42089	0	946	XP_018819005.1	glutamate--glyoxylate aminotransferase 2	Juglans regia	XP_018813477.1
TRINITY_DN13637_c0_g1::TRINITY_DN13637_c0_g1_i7::g.26541::m.26541	7,90E-14	69,7	ONI32249.1	hypothetical protein PRUPE_1G356400	Prunus persica	XP_007225997.1
TRINITY_DN13683_c1_g1::TRINITY_DN13683_c1_g1_i4::g.27154::m.27154	0	1169	XP_018840095.1	quinolinate synthase, chloroplastic	Juglans regia	ALP70495.1
TRINITY_DN13930_c0_g1::TRINITY_DN13930_c0_g1_i1::g.30435::m.30435	0	593	XP_008220830.1	ornithine carbamoyltransferase, chloroplastic	Prunus mume	ONI32617.1
TRINITY_DN12625_c0_g2::TRINITY_DN12625_c0_g2_i2::g.14331::m.14331	0	910	XP_018828658.1	BTB/POZ domain-containing protein At5g03250-like	Juglans regia	XP_018844832.1
TRINITY_DN14916_c3_g2::TRINITY_DN14916_c3_g2_i1::g.44503::m.44503	0	578	XP_018821750.1	26S proteasome non-ATPase regulatory subunit 7 homolog A	Juglans regia	KHN34740.1
TRINITY_DN16821_c2_g1::TRINITY_DN16821_c2_g1_i2::g.73867::m.73867	0	1735	XP_018808675.1	protein argonaute 1-like	Juglans regia	XP_018808676.1
TRINITY_DN18229_c0_g2::TRINITY_DN18229_c0_g2_i1::g.97234::m.97234	4,39E-82	245	XP_009345067.1	caffeoyl-CoA O-methyltransferase	Pyrus x bretschneideri	XP_009345068.1
TRINITY_DN19026_c0_g3::TRINITY_DN19026_c0_g3_i5::g.110636::m.110636	0	1281	XP_018825566.1	cellulose synthase-like protein D4	Juglans regia	XP_018826134.1
TRINITY_DN19212_c1_g1::TRINITY_DN19212_c1_g1_i8::g.114114::m.114114	1,58E-146	432	XP_018811352.1	heat shock 70 kDa protein 16-like	Juglans regia	XP_018811359.1

TRINITY_DN12118_c0_g1::TRINITY_DN12118_c0_g1_i1::g.10631::m.10631	0	872	ONH91092.1	hypothetical protein PRUPE_8G092300	Prunus persica	XP_007199807.1
TRINITY_DN18618_c2_g3::TRINITY_DN18618_c2_g3_i2::g.103853::m.103853	1,24E-105	335	XP_018830702.1	LOW QUALITY PROTEIN: tripeptidyl-peptidase 2-like	Juglans regia	XP_018828368.1
TRINITY_DN17695_c2_g1::TRINITY_DN17695_c2_g1_i3::g.88380::m.88380	0	3508	XP_018844516.1	DNA polymerase epsilon catalytic subunit A-like	Juglans regia	XP_012075886.1
TRINITY_DN14310_c2_g3::TRINITY_DN14310_c2_g3_i5::g.35345::m.35345	3,28E-89	272	XP_018846976.1	LOW QUALITY PROTEIN: apyrase 1-like	Juglans regia	GAU47627.1
TRINITY_DN16144_c0_g3::TRINITY_DN16144_c0_g3_i9::g.62076::m.62076	0	802	XP_018807977.1	uncharacterized protein LOC108981316	Juglans regia	XP_008236697.1
TRINITY_DN12285_c1_g1::TRINITY_DN12285_c1_g1_i3::g.11619::m.11619	0	622	XP_018848409.1	protein STRICTOSIDINE SYNTHASE-LIKE 10-like	Juglans regia	KDP37825.1
TRINITY_DN19816_c1_g2::TRINITY_DN19816_c1_g2_i10::g.124090::m.124090	2,25E-155	438	XP_018806025.1	adenylyl-sulfate kinase 3-like isoform X2	Juglans regia	XP_018806026.1
TRINITY_DN15180_c0_g2::TRINITY_DN15180_c0_g2_i2::g.47796::m.47796	0	550	XP_018835257.1	uncharacterized protein LOC109002109	Juglans regia	XP_008243353.1
TRINITY_DN19665_c1_g1::TRINITY_DN19665_c1_g1_i7::g.121863::m.121863	0	1376	XP_018859316.1	putative cell division cycle ATPase	Juglans regia	XP_018829264.1
TRINITY_DN19770_c1_g4::TRINITY_DN19770_c1_g4_i6::g.123393::m.123393	3,04E-106	311	XP_018850794.1	probable protein phosphatase 2C 39	Juglans regia	XP_018823175.1
TRINITY_DN14513_c0_g3::TRINITY_DN14513_c0_g3_i9::g.38189::m.38189	2,84E-83	246	XP_018838152.1	major allergen Pru ar 1-like	Juglans regia	ONI28174.1
TRINITY_DN16940_c1_g1::TRINITY_DN16940_c1_g1_i2::g.75863::m.75863	2,48E-60	189	XP_018826000.1	endo-1,3;1,4-beta-D-glucanase-like	Juglans regia	XP_018826002.1
TRINITY_DN14725_c0_g1::TRINITY_DN14725_c0_g1_i4::g.41213::m.41213	5,80E-50	159	XP_018834322.1	uncharacterized protein LOC109001480	Juglans regia	XP_018834323.1
TRINITY_DN12515_c0_g1::TRINITY_DN12515_c0_g1_i3::g.13461::m.13461	0	789	XP_018849865.1	aminomethyltransferase, mitochondrial	Juglans regia	XP_018849809.1
TRINITY_DN16262_c1_g3::TRINITY_DN16262_c1_g3_i2::g.64875::m.64875	1,62E-62	202	XP_018845260.1	endoglucanase 16	Juglans regia	XP_012077550.1
TRINITY_DN13815_c1_g1::TRINITY_DN13815_c1_g1_i21::g.28891::m.28891	0	687	XP_008223236.1	UDP-glucuronic acid decarboxylase 6 isoform X1	Prunus mume	ONI00298.1
TRINITY_DN14602_c3_g2::TRINITY_DN14602_c3_g2_i9::g.39596::m.39596	0	1033	XP_018827690.1	acetyl-coenzyme A synthetase, chloroplastic/glyoxysomal isoform X1	Juglans regia	XP_018827691.1
TRINITY_DN18669_c1_g1::TRINITY_DN18669_c1_g1_i3::g.104346::m.104346	2,37E-160	451	XP_018805220.1	signal recognition particle receptor subunit beta-like	Juglans regia	XP_018805221.1
TRINITY_DN16497_c0_g5::TRINITY_DN16497_c0_g5_i1::g.67600::m.67600	0	701	XP_018845018.1	tRNA-dihydrouridine(16/17) synthase [NAD(P)(+)-like]	Juglans regia	XP_018845019.1
TRINITY_DN15927_c0_g1::TRINITY_DN15927_c0_g1_i2::g.59092::m.59092	0	857	XP_018833437.1	hexokinase-2, chloroplastic	Juglans regia	AHY84730.1
TRINITY_DN17586_c3_g1::TRINITY_DN17586_c3_g1_i5::g.86439::m.86439	0	1323	XP_018828049.1	serine/threonine-protein phosphatase 6 regulatory subunit 3-like	Juglans regia	XP_018847866.1
TRINITY_DN16528_c2_g1::TRINITY_DN16528_c2_g1_i3::g.69117::m.69117	9,38E-125	372	XP_018823734.1	beta-galactosidase 13-like	Juglans regia	XP_018841471.1

TRINITY_DN15498_c4_g2::TRINITY_DN15498_c4_g2_i2::g.51311::m.51311	2,21E-122	354	XP_018820852.1	protein YIPF6 homolog	Juglans regia	OAY46745.1
TRINITY_DN14361_c0_g1::TRINITY_DN14361_c0_g1_i5::g.35830::m.35830	0	1411	XP_018836327.1	uncharacterized protein LOC109002866	Juglans regia	XP_008361927.1
TRINITY_DN11484_c0_g1::TRINITY_DN11484_c0_g1_i2::g.7552::m.7552	8,62E-34	117	XP_008364885.1	60S ribosomal protein L22-2	Malus domestica	XP_018858309.1
TRINITY_DN12658_c0_g1::TRINITY_DN12658_c0_g1_i2::g.14732::m.14732	8,70E-73	216	OAY52437.1	hypothetical protein MANES_04G083400	Manihot esculenta	KYP64937.1
TRINITY_DN10660_c0_g1::TRINITY_DN10660_c0_g1_i1::g.5237::m.5237	5,48E-128	369	XP_018809935.1	RWD domain-containing protein 1	Juglans regia	XP_012069022.1
TRINITY_DN3120_c0_g1::TRINITY_DN3120_c0_g1_i1::g.867::m.867	1,24E-100	297	XP_018821736.1	uncharacterized protein At2g39795, mitochondrial-like	Juglans regia	XP_008372078.1
TRINITY_DN19581_c3_g6::TRINITY_DN19581_c3_g6_i4::g.120132::m.120132	2,36E-45	146	XP_018850188.1	V-type proton ATPase subunit G-like	Juglans regia	XP_018850189.1
TRINITY_DN19709_c5_g1::TRINITY_DN19709_c5_g1_i3::g.122591::m.122591	0	1299	XP_018834202.1	histidine--tRNA ligase, cytoplasmic	Juglans regia	XP_008237753.1
TRINITY_DN16440_c0_g1::TRINITY_DN16440_c0_g1_i4::g.67503::m.67503	0	1600	XP_018812523.1	probable alpha,alpha-trehalose-phosphate synthase [UDP-forming 7]	Juglans regia	XP_018841187.1
TRINITY_DN16345_c2_g1::TRINITY_DN16345_c2_g1_i1::g.66206::m.66206	1,05E-33	115	XP_018835558.1	cx9C motif-containing protein 4	Juglans regia	KYP52067.1
TRINITY_DN19239_c3_g1::TRINITY_DN19239_c3_g1_i4::g.113825::m.113825	0	656	ONI03239.1	hypothetical protein PRUPE_6G246500	Prunus persica	XP_007205216.1
TRINITY_DN16612_c3_g7::TRINITY_DN16612_c3_g7_i2::g.70355::m.70355	0	579	XP_018844325.1	ATPase 9, plasma membrane-type	Juglans regia	ONI16393.1
TRINITY_DN19651_c4_g1::TRINITY_DN19651_c4_g1_i17::g.121374::m.121374	2,58E-169	485	XP_018849269.1	phosphoacetylglucosamine mutase-like	Juglans regia	XP_018838256.1
TRINITY_DN12541_c0_g1::TRINITY_DN12541_c0_g1_i2::g.13592::m.13592	2,79E-86	256	XP_018834081.1	translocon-associated protein subunit beta-like	Juglans regia	XP_018834886.1
TRINITY_DN14080_c2_g2::TRINITY_DN14080_c2_g2_i1::g.32148::m.32148	4,51E-115	332	OIW09901.1	hypothetical protein TanjilG_32050	Lupinus angustifolius	XP_019447243.1
TRINITY_DN16026_c0_g1::TRINITY_DN16026_c0_g1_i2::g.60976::m.60976	0	4237	XP_012089387.1	protein ILITYHIA	Jatropha curcas	ONI05051.1
TRINITY_DN17082_c4_g2::TRINITY_DN17082_c4_g2_i2::g.78169::m.78169	0	1003	XP_018847198.1	protein CASP	Juglans regia	OAY50476.1
TRINITY_DN19559_c2_g2::TRINITY_DN19559_c2_g2_i6::g.119806::m.119806	1,65E-77	233	XP_018808841.1	esterase CG5412-like	Juglans regia	OAY58075.1
TRINITY_DN19551_c4_g4::TRINITY_DN19551_c4_g4_i1::g.119681::m.119681	0	603	XP_004493989.1	cell division control protein 48 homolog D	Cicer arietinum	XP_004493989.1
TRINITY_DN12675_c1_g1::TRINITY_DN12675_c1_g1_i4::g.14912::m.14912	1,74E-165	467	KDP42130.1	hypothetical protein JCGZ_01918	Jatropha curcas	XP_012067122.1
TRINITY_DN14194_c0_g2::TRINITY_DN14194_c0_g2_i9::g.33546::m.33546	0	771	ONI11967.1	hypothetical protein PRUPE_4G137500	Prunus persica	XP_007213801.1
TRINITY_DN15675_c4_g2::TRINITY_DN15675_c4_g2_i2::g.55509::m.55509	7,92E-111	321	XP_018848086.1	uncharacterized protein LOC109011377 isoform X1	Juglans regia	KDP36026.1

TRINITY_DN16295_c1_g2::TRINITY_DN16295_c1_g2_i1::g.65228::m.65228	2,03E-178	499	XP_018811162.1	serine/threonine-protein kinase SAPK7-like	Juglans regia	XP_014509517.1
TRINITY_DN16659_c4_g1::TRINITY_DN16659_c4_g1_i7::g.71135::m.71135	0	1109	XP_018843251.1	VHS domain-containing protein At3g16270	Juglans regia	XP_018843252.1
TRINITY_DN15142_c0_g1::TRINITY_DN15142_c0_g1_i16::g.47469::m.47469	1,07E-117	345	XP_018812490.1	uncharacterized protein LOC108984861 isoform X5	Juglans regia	XP_018842938.1
TRINITY_DN14674_c1_g1::TRINITY_DN14674_c1_g1_i2::g.40399::m.40399	2,73E-125	363	XP_018822743.1	uncharacterized protein LOC108992601 isoform X2	Juglans regia	ONH94692.1
TRINITY_DN12462_c4_g1::TRINITY_DN12462_c4_g1_i1::g.13140::m.13140	1,40E-75	239	XP_018814632.1	dynamin-related protein 1C-like	Juglans regia	OAY25314.1
TRINITY_DN18768_c2_g1::TRINITY_DN18768_c2_g1_i1::g.106105::m.106105	3,50E-162	471	XP_018821713.1	eukaryotic translation initiation factor 4B2-like	Juglans regia	XP_018821321.1
TRINITY_DN19730_c4_g2::TRINITY_DN19730_c4_g2_i8::g.122947::m.122947	0	726	XP_018834571.1	DEAD-box ATP-dependent RNA helicase 37-like	Juglans regia	OAY28940.1
TRINITY_DN18061_c2_g5::TRINITY_DN18061_c2_g5_i2::g.94542::m.94542	0	775	XP_018846848.1	leucine-rich repeat receptor-like serine/threonine-protein kinase At2g14510	Juglans regia	XP_018840482.1
TRINITY_DN15458_c1_g2::TRINITY_DN15458_c1_g2_i4::g.52100::m.52100	1,76E-74	221	XP_018823645.1	uncharacterized protein LOC108993249	Juglans regia	XP_018857024.1
TRINITY_DN14909_c1_g1::TRINITY_DN14909_c1_g1_i3::g.44168::m.44168	0	1806	XP_018838035.1	conserved oligomeric Golgi complex subunit 1	Juglans regia	KDP32491.1
TRINITY_DN16927_c1_g1::TRINITY_DN16927_c1_g1_i7::g.75660::m.75660	2,06E-160	456	XP_018824340.1	uncharacterized protein LOC108993774	Juglans regia	OAY37742.1
TRINITY_DN17463_c2_g1::TRINITY_DN17463_c2_g1_i7::g.84144::m.84144	0	636	XP_018824020.1	alpha-amylase-like isoform X1	Juglans regia	XP_018824021.1
TRINITY_DN19844_c1_g3::TRINITY_DN19844_c1_g3_i3::g.124457::m.124457	0	683	XP_018849698.1	glutamine--tRNA ligase-like	Juglans regia	XP_018849699.1
TRINITY_DN15946_c1_g2::TRINITY_DN15946_c1_g2_i8::g.59360::m.59360	0	855	XP_018848567.1	glycylpeptide N-tetradecanoyltransferase 1-like	Juglans regia	XP_018848568.1
TRINITY_DN14927_c1_g1::TRINITY_DN14927_c1_g1_i11::g.44438::m.44438	1,21E-96	283	XP_018842815.1	RNA-binding protein 1-like	Juglans regia	XP_018842816.1
TRINITY_DN17612_c1_g2::TRINITY_DN17612_c1_g2_i3::g.87024::m.87024	0	1634	OAY59550.1	hypothetical protein MANES_01G040200	Manihot esculenta	XP_012066298.1
TRINITY_DN18637_c1_g1::TRINITY_DN18637_c1_g1_i7::g.103721::m.103721	0	842	XP_018852639.1	serine/threonine protein phosphatase 2A regulatory subunit B''beta-like	Juglans regia	XP_018855937.1
TRINITY_DN12213_c0_g1::TRINITY_DN12213_c0_g1_i3::g.11157::m.11157	3,11E-104	309	XP_018846823.1	prostaglandin E synthase 2-like	Juglans regia	XP_008221232.1
TRINITY_DN19518_c0_g1::TRINITY_DN19518_c0_g1_i8::g.119129::m.119129	1,51E-134	380	XP_018810318.1	IN2-2 protein-like isoform X4	Juglans regia	XP_018810314.1
TRINITY_DN19195_c4_g1::TRINITY_DN19195_c4_g1_i3::g.113639::m.113639	0	554	KYP78448.1	Beta-galactosidase	Cajanus cajan	XP_020208721.1
TRINITY_DN13292_c1_g6::TRINITY_DN13292_c1_g6_i2::g.22041::m.22041	1,18E-63	194	XP_018824894.1	uncharacterized protein LOC108994217	Juglans regia	OAY47489.1
TRINITY_DN14741_c0_g1::TRINITY_DN14741_c0_g1_i2::g.41477::m.41477	0	884	XP_018849265.1	peptide-N4-(N-acetyl-beta-glucosaminyl)asparagine amidase A	Juglans regia	XP_018849272.1

TRINITY_DN14630_c2_g8::TRINITY_DN14630_c2_g8_i1::g.39829::m.39829	1,62E-114	327	XP_018846146.1	GTP-binding protein SAR1A isoform X1	Juglans regia	KDP28245.1
TRINITY_DN16782_c2_g1::TRINITY_DN16782_c2_g1_i3::g.73171::m.73171	3,53E-43	150	ONI15658.1	hypothetical protein PRUPE_3G054100	Prunus persica	KDP43847.1
TRINITY_DN18173_c2_g1::TRINITY_DN18173_c2_g1_i9::g.96627::m.96627	0	1547	XP_018845600.1	L-arabinokinase-like	Juglans regia	XP_018845086.1
TRINITY_DN17174_c0_g2::TRINITY_DN17174_c0_g2_i1::g.79619::m.79619	1,05E-42	139	XP_004485978.1	60S ribosomal protein L38-like	Cicer arietinum	XP_004507353.1
TRINITY_DN12761_c4_g1::TRINITY_DN12761_c4_g1_i4::g.15698::m.15698	2,04E-92	275	ACU16831.1	unknown	Glycine max	XP_018813170.1
TRINITY_DN15641_c2_g1::TRINITY_DN15641_c2_g1_i3::g.54993::m.54993	0	545	XP_018817143.1	uncharacterized protein LOC108988355	Juglans regia	XP_018828950.1
TRINITY_DN16713_c1_g2::TRINITY_DN16713_c1_g2_i6::g.72096::m.72096	0	590	XP_018837262.1	protein FREE1	Juglans regia	KDP36892.1
TRINITY_DN15145_c0_g2::TRINITY_DN15145_c0_g2_i2::g.46817::m.46817	0	729	XP_018859548.1	protein AUXIN RESPONSE 4	Juglans regia	XP_018859549.1
TRINITY_DN16390_c0_g1::TRINITY_DN16390_c0_g1_i2::g.66783::m.66783	0	639	XP_018836609.1	RNA-binding KH domain-containing protein PEPPER	Juglans regia	XP_008223873.1
TRINITY_DN16711_c0_g1::TRINITY_DN16711_c0_g1_i4::g.72030::m.72030	0	1150	XP_018826782.1	TBC1 domain family member 15-like isoform X2	Juglans regia	XP_018826781.1
TRINITY_DN15384_c0_g1::TRINITY_DN15384_c0_g1_i3::g.51070::m.51070	0	664	XP_018850136.1	developmentally-regulated G-protein 3	Juglans regia	XP_016162010.1
TRINITY_DN17041_c0_g1::TRINITY_DN17041_c0_g1_i4::g.77480::m.77480	0	2041	XP_018849426.1	uncharacterized protein LOC109012316	Juglans regia	ONI20827.1
TRINITY_DN18962_c1_g1::TRINITY_DN18962_c1_g1_i3::g.109730::m.109730	0	1260	XP_018833756.1	protein argonaute 5	Juglans regia	XP_018833165.1
TRINITY_DN16476_c3_g1::TRINITY_DN16476_c3_g1_i9::g.68231::m.68231	0	881	XP_018842650.1	probable arabinosyltransferase ARAD1	Juglans regia	XP_018842651.1
TRINITY_DN17658_c5_g3::TRINITY_DN17658_c5_g3_i2::g.87770::m.87770	5,12E-101	297	XP_018821628.1	proteasome subunit alpha type-1-B-like	Juglans regia	XP_018845049.1
TRINITY_DN16523_c1_g1::TRINITY_DN16523_c1_g1_i4::g.69126::m.69126	7,51E-28	118	XP_018805377.1	uncharacterized protein LOC108979207	Juglans regia	XP_018805377.1
TRINITY_DN19779_c3_g3::TRINITY_DN19779_c3_g3_i2::g.123543::m.123543	1,30E-149	420	OAY39696.1	hypothetical protein MANES_10G115800	Manihot esculenta	KDP42463.1
TRINITY_DN15367_c2_g1::TRINITY_DN15367_c2_g1_i7::g.50786::m.50786	3,66E-57	178	XP_018851174.1	putative phosphatidylglycerol/phosphatidylinositol transfer protein DDB_G0282179	Juglans regia	XP_018836592.1
TRINITY_DN14788_c0_g1::TRINITY_DN14788_c0_g1_i1::g.42248::m.42248	4,39E-25	95,5	XP_018852386.1	protein SPIRAL1-like 1	Juglans regia	XP_018852387.1
TRINITY_DN12593_c2_g1::TRINITY_DN12593_c2_g1_i1::g.14128::m.14128	7,00E-59	193	XP_018817520.1	glycosyltransferase-like KOBITO 1 isoform X2	Juglans regia	KRH62919.1
TRINITY_DN18024_c1_g1::TRINITY_DN18024_c1_g1_i2::g.93774::m.93774	5,47E-137	389	XP_018841297.1	tropinone reductase homolog At5g06060-like	Juglans regia	XP_018850680.1

TRINITY_DN16834_c1_g1::TRINITY_DN16834_c1_g1_i1::g.74148::m.74148	0	935	XP_018821057.1	calcium-dependent protein kinase 11-like	Juglans regia	XP_018848690.1
TRINITY_DN19047_c1_g5::TRINITY_DN19047_c1_g5_i2::g.111027::m.111027	0	610	XP_018845017.1	probable 2-oxoglutarate-dependent dioxygenase At3g49630 isoform X2	Juglans regia	XP_018845016.1
TRINITY_DN15127_c0_g2::TRINITY_DN15127_c0_g2_i1::g.47217::m.47217	0	1672	XP_018823060.1	alpha-mannosidase 2	Juglans regia	ONI19395.1
TRINITY_DN13215_c0_g6::TRINITY_DN13215_c0_g6_i3::g.21426::m.21426	3,41E-46	153	XP_018843123.1	eukaryotic translation initiation factor 3 subunit J-like	Juglans regia	OAY46647.1
TRINITY_DN16629_c2_g3::TRINITY_DN16629_c2_g3_i2::g.70768::m.70768	1,09E-79	240	XP_018828615.1	gamma-interferon-inducible lysosomal thiol reductase-like	Juglans regia	XP_008234981.2
TRINITY_DN11853_c0_g1::TRINITY_DN11853_c0_g1_i3::g.9201::m.9201	0	630	XP_018829679.1	2-methyl-6-phytyl-1,4-hydroquinone methyltransferase, chloroplastic-like isoform X1	Juglans regia	XP_018829680.1
TRINITY_DN12481_c0_g1::TRINITY_DN12481_c0_g1_i2::g.13223::m.13223	1,92E-82	243	XP_012074113.1	microsomal glutathione S-transferase 3	Jatropha curcas	OAY57255.1
TRINITY_DN17670_c0_g2::TRINITY_DN17670_c0_g2_i7::g.87973::m.87973	0	883	XP_018837095.1	uncharacterized protein At1g04910	Juglans regia	ONI05883.1
TRINITY_DN17125_c1_g1::TRINITY_DN17125_c1_g1_i9::g.78918::m.78918	0	533	XP_018834513.1	clathrin interactor EPSIN 1	Juglans regia	XP_018834519.1
TRINITY_DN16077_c0_g5::TRINITY_DN16077_c0_g5_i1::g.61752::m.61752	2,55E-130	370	GAU32398.1	hypothetical protein TSUD_44410, partial	Trifolium subterraneum	XP_008234243.1
TRINITY_DN17927_c1_g1::TRINITY_DN17927_c1_g1_i3::g.92125::m.92125	0	563	XP_018810997.1	electron transfer flavoprotein subunit alpha, mitochondrial	Juglans regia	OAY28546.1
TRINITY_DN13566_c3_g2::TRINITY_DN13566_c3_g2_i6::g.25511::m.25511	4,81E-112	334	XP_018833217.1	uncharacterized protein LOC109000707	Juglans regia	XP_018833218.1
TRINITY_DN15783_c0_g1::TRINITY_DN15783_c0_g1_i4::g.56969::m.56969	6,13E-110	317	XP_018853288.1	triphosphate tunel metalloenzyme 3-like	Juglans regia	XP_018816133.1
TRINITY_DN14219_c0_g1::TRINITY_DN14219_c0_g1_i15::g.33893::m.33893	0	549	XP_018848890.1	activator of 90 kDa heat shock protein ATPase homolog	Juglans regia	XP_018809717.1
TRINITY_DN16674_c0_g1::TRINITY_DN16674_c0_g1_i2::g.71326::m.71326	0	1047	XP_018836506.1	uncharacterized protein LOC109003012	Juglans regia	XP_008233533.1
TRINITY_DN18146_c1_g5::TRINITY_DN18146_c1_g5_i1::g.95204::m.95204	2,37E-78	233	XP_018808548.1	outer envelope pore protein 16-3, chloroplastic/mitochondrial	Juglans regia	XP_008367365.1
TRINITY_DN15699_c1_g3::TRINITY_DN15699_c1_g3_i5::g.55823::m.55823	0	1258	XP_018816462.1	protein transport protein Sec24-like At3g07100	Juglans regia	XP_018816462.1
TRINITY_DN17055_c3_g2::TRINITY_DN17055_c3_g2_i4::g.77693::m.77693	0	2892	XP_018850497.1	uncharacterized protein LOC109013033	Juglans regia	XP_018850498.1
TRINITY_DN16303_c1_g1::TRINITY_DN16303_c1_g1_i9::g.65704::m.65704	1,83E-169	490	XP_018817229.1	uncharacterized protein LOC108988420	Juglans regia	XP_008387749.1
TRINITY_DN19783_c1_g1::TRINITY_DN19783_c1_g1_i4::g.123602::m.123602	3,37E-130	399	XP_018817838.1	methionine S-methyltransferase	Juglans regia	XP_008379013.1
TRINITY_DN15141_c1_g1::TRINITY_DN15141_c1_g1_i2::g.47502::m.47502	0	540	XP_018846483.1	proteasome subunit beta type-7-B	Juglans regia	KDP46386.1
TRINITY_DN11784_c0_g1::TRINITY_DN11784_c0_g1_i1::g.8804::m.8804	8,77E-83	247	XP_018825585.1	uncharacterized protein LOC108994714	Juglans regia	OAY27757.1

TRINITY_DN16035_c3_g1::TRINITY_DN16035_c3_g1_i2::g.61026::m.61026	0	573	XP_018825295.1	BSD domain-containing protein 1	Juglans regia	OAY49651.1
TRINITY_DN13920_c2_g1::TRINITY_DN13920_c2_g1_i2::g.30365::m.30365	1,41E-112	337	XP_018823489.1	putative 3,4-dihydroxy-2-butanone kinase	Juglans regia	XP_018859162.1
TRINITY_DN13342_c3_g1::TRINITY_DN13342_c3_g1_i3::g.22570::m.22570	1,83E-64	215	XP_018831147.1	dynamin-2A-like	Juglans regia	XP_018834193.1
TRINITY_DN16268_c4_g1::TRINITY_DN16268_c4_g1_i16::g.64855::m.64855	0	1142	XP_018821646.1	uncharacterized protein LOC108991727 isoform X2	Juglans regia	XP_018821645.1
TRINITY_DN12624_c0_g1::TRINITY_DN12624_c0_g1_i1::g.14480::m.14480	0	839	XP_018844325.1	ATPase 9, plasma membrane-type	Juglans regia	XP_009334638.1
TRINITY_DN10700_c0_g1::TRINITY_DN10700_c0_g1_i1::g.5317::m.5317	6,93E-169	475	XP_018835415.1	elongation factor Ts, mitochondrial isoform X1	Juglans regia	OAY32958.1
TRINITY_DN14461_c1_g2::TRINITY_DN14461_c1_g2_i3::g.37522::m.37522	1,15E-106	319	KDP33945.1	hypothetical protein JCGZ_07516	Jatropha curcas	XP_020208720.1
TRINITY_DN11860_c0_g1::TRINITY_DN11860_c0_g1_i2::g.9213::m.9213	1,60E-67	204	AFP43694.1	actin 2, partial	Eriobotrya japonica	AFP43696.1
TRINITY_DN17343_c0_g2::TRINITY_DN17343_c0_g2_i1::g.82237::m.82237	0	1542	XP_018825849.1	AMP deaminase	Juglans regia	XP_018825850.1
TRINITY_DN17700_c1_g1::TRINITY_DN17700_c1_g1_i9::g.86845::m.86845	6,51E-176	489	XP_018859347.1	probable enoyl-CoA hydratase 1, peroxisomal	Juglans regia	ONI27997.1
TRINITY_DN15208_c2_g1::TRINITY_DN15208_c2_g1_i1::g.48542::m.48542	0	1009	XP_018847349.1	plastidial pyruvate kinase 2	Juglans regia	OAY48391.1
TRINITY_DN17602_c0_g7::TRINITY_DN17602_c0_g7_i2::g.86978::m.86978	0	2972	XP_018816643.1	auxin transport protein BIG	Juglans regia	ONI18935.1
TRINITY_DN15799_c0_g1::TRINITY_DN15799_c0_g1_i13::g.55967::m.55967	1,61E-116	338	XP_018842015.1	endochitinase-like	Juglans regia	XP_018854709.1
TRINITY_DN19816_c1_g2::TRINITY_DN19816_c1_g2_i9::g.124089::m.124089	8,65E-138	392	XP_018806025.1	adenylyl-sulfate kinase 3-like isoform X2	Juglans regia	XP_018806026.1
TRINITY_DN14106_c1_g2::TRINITY_DN14106_c1_g2_i1::g.32414::m.32414	0	728	XP_018829584.1	3-dehydroquinate synthase, chloroplastic-like	Juglans regia	XP_018832026.1
TRINITY_DN19486_c1_g2::TRINITY_DN19486_c1_g2_i2::g.118619::m.118619	0	587	XP_018809158.1	uncharacterized protein At5g49945-like	Juglans regia	XP_018817873.1
TRINITY_DN16542_c2_g2::TRINITY_DN16542_c2_g2_i8::g.69479::m.69479	0	1722	XP_018807838.1	uncharacterized protein LOC108981175	Juglans regia	XP_009358942.1
TRINITY_DN15298_c0_g1::TRINITY_DN15298_c0_g1_i1::g.49745::m.49745	1,10E-70	216	XP_018848462.1	B-cell receptor-associated protein 31	Juglans regia	AFK41440.1
TRINITY_DN14245_c1_g1::TRINITY_DN14245_c1_g1_i8::g.34453::m.34453	7,10E-90	264	KYP70294.1	Stromal cell-derived factor 2-like protein	Cajanus cajan	XP_020213613.1
TRINITY_DN16993_c0_g1::TRINITY_DN16993_c0_g1_i5::g.76723::m.76723	7,96E-68	211	XP_018828640.1	bifunctional UDP-glucose 4-epimerase and UDP-xylose 4-epimerase 1	Juglans regia	XP_018811946.1
TRINITY_DN18845_c2_g1::TRINITY_DN18845_c2_g1_i6::g.106645::m.106645	0	1388	XP_018823809.1	transportin-1-like	Juglans regia	XP_018823810.1
TRINITY_DN17503_c1_g2::TRINITY_DN17503_c1_g2_i5::g.84903::m.84903	4,83E-149	446	XP_009374844.1	WEB family protein At1g12150-like	Pyrus x bretschneideri	XP_018837389.1

TRINITY_DN18733_c1_g1::TRINITY_DN18733_c1_g1_i16::g.105945::m.105945	9,97E-88	276	XP_018821030.1	transmembrane and coiled-coil domain-containing protein 4 like isoform X1	Juglans regia	XP_017186447.1
TRINITY_DN13161_c0_g2::TRINITY_DN13161_c0_g2_i6::g.20596::m.20596	4,86E-100	289	XP_016205498.1	signal peptidase complex subunit 3B	Arachis ipaensis	XP_015968566.1
TRINITY_DN16310_c4_g1::TRINITY_DN16310_c4_g1_i21::g.65586::m.65586	5,18E-138	387	AEX31757.1	clp protease proteolytic subunit (chloroplast)	Pentactina rupicola	YP_005296125.1
TRINITY_DN16789_c2_g2::TRINITY_DN16789_c2_g2_i2::g.73230::m.73230	0	559	XP_018812975.1	mitochondrial import inner membrane translocase subunit TIM50	Juglans regia	XP_018825124.1
TRINITY_DN14198_c0_g1::TRINITY_DN14198_c0_g1_i9::g.33644::m.33644	1,84E-106	325	XP_018815969.1	granule-bound starch synthase 2, chloroplastic/amyloplastic-like	Juglans regia	OIW21160.1
TRINITY_DN11382_c0_g1::TRINITY_DN11382_c0_g1_i1::g.7166::m.7166	0	730	XP_018810396.1	pyruvate dehydrogenase E1 component subunit beta-3, chloroplastic	Juglans regia	XP_018810397.1
TRINITY_DN18612_c0_g3::TRINITY_DN18612_c0_g3_i1::g.103400::m.103400	1,73E-131	373	XP_018831192.1	polyadenylate-binding protein 1 isoform X1	Juglans regia	XP_018808102.1
TRINITY_DN13425_c1_g1::TRINITY_DN13425_c1_g1_i4::g.23719::m.23719	2,03E-178	496	XP_018842653.1	NADH--cytochrome b5 reductase 1	Juglans regia	OAY41871.1
TRINITY_DN18242_c3_g2::TRINITY_DN18242_c3_g2_i3::g.97426::m.97426	2,32E-124	362	XP_018807889.1	heterogeneous nuclear ribonucleoprotein 1-like	Juglans regia	XP_018810068.1
TRINITY_DN16339_c2_g2::TRINITY_DN16339_c2_g2_i2::g.65998::m.65998	0	1748	XP_018807888.1	lon protease homolog 1, mitochondrial-like	Juglans regia	OAY43962.1
TRINITY_DN17082_c3_g1::TRINITY_DN17082_c3_g1_i1::g.78154::m.78154	0	902	XP_018848774.1	cystathionine gamma-synthase 1, chloroplastic-like isoform X1	Juglans regia	XP_018848775.1
TRINITY_DN19447_c1_g1::TRINITY_DN19447_c1_g1_i4::g.118090::m.118090	0	1191	XP_018839054.1	probable rhamnogalacturonate lyase B	Juglans regia	XP_018842495.1
TRINITY_DN12896_c0_g1::TRINITY_DN12896_c0_g1_i6::g.17068::m.17068	1,58E-172	484	ONI22818.1	hypothetical protein PRUPE_2G153000	Prunus persica	XP_007218197.1
TRINITY_DN17884_c0_g1::TRINITY_DN17884_c0_g1_i1::g.91267::m.91267	3,04E-25	97,8	OAY59405.1	hypothetical protein MANES_01G030100	Manihot esculenta	XP_018836344.1
TRINITY_DN19798_c2_g2::TRINITY_DN19798_c2_g2_i9::g.123749::m.123749	0	801	OAY26193.1	hypothetical protein MANES_16G027900	Manihot esculenta	XP_018860049.1
TRINITY_DN19714_c6_g2::TRINITY_DN19714_c6_g2_i2::g.122726::m.122726	0	664	XP_018815318.1	probable receptor-like protein kinase At4g39110	Juglans regia	XP_018850919.1
TRINITY_DN16697_c1_g2::TRINITY_DN16697_c1_g2_i3::g.70483::m.70483	3,70E-112	340	XP_018836272.1	cell division cycle protein 48 homolog	Juglans regia	XP_018836273.1
TRINITY_DN18870_c1_g2::TRINITY_DN18870_c1_g2_i1::g.107727::m.107727	1,37E-161	454	XP_018818800.1	probable 6-phosphogluconolactonase 4, chloroplastic	Juglans regia	XP_018842795.1
TRINITY_DN18726_c1_g1::TRINITY_DN18726_c1_g1_i9::g.105485::m.105485	0	1835	XP_018837729.1	protein MODIFIER OF SNC1 1-like isoform X1	Juglans regia	XP_018837730.1
TRINITY_DN18156_c0_g1::TRINITY_DN18156_c0_g1_i18::g.96138::m.96138	0	853	XP_018824574.1	E3 UFM1-protein ligase 1 homolog isoform X1	Juglans regia	XP_018824575.1
TRINITY_DN17096_c1_g1::TRINITY_DN17096_c1_g1_i4::g.78249::m.78249	7,59E-57	175	XP_018805734.1	huntingtin-interacting protein K-like	Juglans regia	KDP27909.1
TRINITY_DN18240_c0_g1::TRINITY_DN18240_c0_g1_i3::g.97435::m.97435	0	582	XP_018808481.1	AP-1 complex subunit gamma-2-like isoform X2	Juglans regia	XP_018808480.1

TRINITY_DN14353_c0_g2::TRINITY_DN14353_c0_g2_i2::g.35716::m.35716	1,44E-41	146	OAY26155.1	hypothetical protein MANES_16G025400	Manihot esculenta	KDP20942.1
TRINITY_DN16303_c1_g2::TRINITY_DN16303_c1_g2_i1::g.65686::m.65686	2,09E-71	232	XP_018817229.1	uncharacterized protein LOC108988420	Juglans regia	XP_012569741.1
TRINITY_DN13465_c2_g1::TRINITY_DN13465_c2_g1_i6::g.24168::m.24168	4,48E-105	313	XP_018854479.1	signal recognition particle 54 kDa protein 2	Juglans regia	XP_018851743.1
TRINITY_DN16506_c3_g1::TRINITY_DN16506_c3_g1_i1::g.68717::m.68717	3,07E-66	200	XP_018846320.1	60S ribosomal protein L31	Juglans regia	XP_008242444.1
TRINITY_DN20189_c0_g1::TRINITY_DN20189_c0_g1_i1::g.128508::m.128508	1,69E-87	260	XP_018834573.1	uncharacterized protein LOC109001661	Juglans regia	ONH99077.1
TRINITY_DN3188_c0_g1::TRINITY_DN3188_c0_g1_i1::g.878::m.878	1,67E-69	211	XP_018834960.1	uncharacterized protein LOC109001911	Juglans regia	XP_008238399.1
TRINITY_DN17908_c2_g1::TRINITY_DN17908_c2_g1_i5::g.91796::m.91796	0	660	XP_018830811.1	pectin acetylesterase 9	Juglans regia	XP_008234234.1
TRINITY_DN13425_c1_g3::TRINITY_DN13425_c1_g3_i2::g.23712::m.23712	0	513	KDP42913.1	hypothetical protein JCGZ_23855	Jatropha curcas	XP_012066294.1
TRINITY_DN14799_c0_g2::TRINITY_DN14799_c0_g2_i3::g.42387::m.42387	1,26E-132	383	XP_018828255.1	LOW QUALITY PROTEIN: protein TIC 22-like, chloroplastic	Juglans regia	ONI28937.1
TRINITY_DN12952_c0_g1::TRINITY_DN12952_c0_g1_i2::g.17756::m.17756	0	541	XP_018847067.1	branched-chain-amino-acid aminotransferase 6-like isoform X2	Juglans regia	XP_018847068.1
TRINITY_DN18755_c3_g1::TRINITY_DN18755_c3_g1_i1::g.105920::m.105920	0	568	XP_018809691.1	probable protein kinase At2g41970 isoform X1	Juglans regia	XP_018848920.1
TRINITY_DN14404_c3_g2::TRINITY_DN14404_c3_g2_i3::g.36551::m.36551	0	1050	XP_018854140.1	elongation factor G-2, mitochondrial	Juglans regia	ONI22518.1
TRINITY_DN19358_c6_g3::TRINITY_DN19358_c6_g3_i5::g.116477::m.116477	1,13E-106	310	XP_018824738.1	phytanoyl-CoA dioxygenase	Juglans regia	XP_020411582.1
TRINITY_DN12704_c0_g1::TRINITY_DN12704_c0_g1_i4::g.15091::m.15091	0	552	XP_018811469.1	mitochondrial carnitine/acylcarnitine carrier-like protein	Juglans regia	XP_018811470.1
TRINITY_DN20043_c7_g2::TRINITY_DN20043_c7_g2_i2::g.128238::m.128238	1,49E-54	174	XP_018849930.1	rho GDP-dissociation inhibitor 1-like	Juglans regia	XP_018809557.1
TRINITY_DN17498_c2_g1::TRINITY_DN17498_c2_g1_i6::g.83121::m.83121	0	1230	XP_018825631.1	translation initiation factor eIF-2B subunit epsilon isoform X1	Juglans regia	XP_018825633.1
TRINITY_DN18857_c0_g5::TRINITY_DN18857_c0_g5_i2::g.107485::m.107485	8,21E-34	126	XP_018835872.1	SEC12-like protein 2	Juglans regia	XP_018835880.1
TRINITY_DN14751_c0_g1::TRINITY_DN14751_c0_g1_i8::g.40814::m.40814	0	1451	XP_018828780.1	endoplasmic reticulum metallopeptidase 1 isoform X1	Juglans regia	ONI23872.1
TRINITY_DN17602_c0_g3::TRINITY_DN17602_c0_g3_i7::g.86972::m.86972	0	744	XP_018834060.1	glutamine--fructose-6-phosphate aminotransferase [isomerizing 2]	Juglans regia	OAY34226.1
TRINITY_DN11500_c0_g1::TRINITY_DN11500_c0_g1_i2::g.7570::m.7570	0	560	XP_018846417.1	beta-amylase-like	Juglans regia	ONI18541.1
TRINITY_DN17024_c0_g5::TRINITY_DN17024_c0_g5_i1::g.77080::m.77080	7,06E-161	450	XP_018816519.1	uncharacterized protein At3g49720-like	Juglans regia	XP_018816520.1
TRINITY_DN18652_c2_g1::TRINITY_DN18652_c2_g1_i2::g.104075::m.104075	0	1033	XP_018817490.1	mannosyl-oligosaccharide 1,2-alpha-mannosidase MNS3	Juglans regia	ONI10982.1

TRINITY_DN19078_c0_g3::TRINITY_DN19078_c0_g3_i6::g.111344::m.111344	1,90E-52	177	XP_018836309.1	aspartic proteinase-like	Juglans regia	XP_018836310.1
TRINITY_DN13010_c2_g2::TRINITY_DN13010_c2_g2_i9::g.18708::m.18708	7,65E-77	230	XP_018818664.1	transmembrane emp24 domain-containing protein p24beta3-like	Juglans regia	XP_018839419.1
TRINITY_DN18307_c0_g1::TRINITY_DN18307_c0_g1_i4::g.98617::m.98617	0	741	XP_018828232.1	protein transport protein SEC23-like	Juglans regia	XP_018848547.1
TRINITY_DN14082_c1_g1::TRINITY_DN14082_c1_g1_i3::g.32100::m.32100	2,08E-136	395	XP_018859992.1	protein TIC 40, chloroplastic-like	Juglans regia	XP_004500418.1
TRINITY_DN17986_c0_g1::TRINITY_DN17986_c0_g1_i2::g.93139::m.93139	5,35E-148	446	XP_018809776.1	protein transport protein SEC31 homolog B-like isoform X2	Juglans regia	XP_018809774.1
TRINITY_DN13091_c0_g1::TRINITY_DN13091_c0_g1_i4::g.19648::m.19648	1,94E-116	339	OAY23951.1	hypothetical protein MANES_18G120400	Manihot esculenta	OAY23950.1
TRINITY_DN16278_c2_g2::TRINITY_DN16278_c2_g2_i8::g.65116::m.65116	6,06E-132	380	XP_018825844.1	dnaJ homolog subfamily B member 1-like	Juglans regia	ACJ84895.1
TRINITY_DN13098_c2_g1::TRINITY_DN13098_c2_g1_i5::g.19700::m.19700	0	817	XP_018816542.1	uncharacterized protein LOC108987901 isoform X1	Juglans regia	KDP21813.1
TRINITY_DN11989_c0_g1::TRINITY_DN11989_c0_g1_i1::g.9805::m.9805	0	784	XP_018850824.1	bifunctional aspartate aminotransferase and glutamate/aspartate-prephenate aminotransferase-like	Juglans regia	XP_018816075.1
TRINITY_DN19569_c1_g4::TRINITY_DN19569_c1_g4_i1::g.119978::m.119978	1,41E-124	359	ONI06354.1	hypothetical protein PRUPE_5G055300	Prunus persica	ONI06351.1
TRINITY_DN16768_c1_g4::TRINITY_DN16768_c1_g4_i5::g.73029::m.73029	0	1145	XP_018829197.1	monosaccharide-sensing protein 2-like	Juglans regia	XP_018829198.1
TRINITY_DN13051_c9_g1::TRINITY_DN13051_c9_g1_i1::g.19838::m.19838						
TRINITY_DN15531_c1_g1::TRINITY_DN15531_c1_g1_i8::g.53401::m.53401	1,21E-53	170	ONI20907.1	hypothetical protein PRUPE_2G040100	Prunus persica	XP_007218492.1
TRINITY_DN17286_c1_g1::TRINITY_DN17286_c1_g1_i1::g.81477::m.81477	0	1874	XP_018834056.1	probable alpha-mannosidase At5g13980 isoform X4	Juglans regia	XP_018834055.1
TRINITY_DN13833_c0_g1::TRINITY_DN13833_c0_g1_i8::g.29930::m.29930	0	613	XP_018856733.1	serine/threonine-protein phosphatase PP2A-3 catalytic subunit	Juglans regia	XP_008387207.1
TRINITY_DN16501_c0_g1::TRINITY_DN16501_c0_g1_i7::g.68513::m.68513	0	748	XP_018848063.1	UDP-glucuronate 4-epimerase 3	Juglans regia	XP_008364369.1
TRINITY_DN14803_c0_g1::TRINITY_DN14803_c0_g1_i4::g.42638::m.42638	0	689	XP_018832781.1	thiosulfate/3-mercaptopyruvate sulfurtransferase 1, mitochondrial-like isoform X1	Juglans regia	KDP25080.1
TRINITY_DN13921_c0_g1::TRINITY_DN13921_c0_g1_i2::g.30314::m.30314	1,33E-136	391	XP_018860709.1	secretory carrier-associated membrane protein 1 isoform X1	Juglans regia	OAY34103.1
TRINITY_DN13437_c3_g1::TRINITY_DN13437_c3_g1_i7::g.23377::m.23377	0	905	XP_018849128.1	transmembrane 9 superfamily member 3	Juglans regia	XP_018823528.1
TRINITY_DN18701_c4_g10::TRINITY_DN18701_c4_g10_i2::g.103928::m.103928	8,80E-161	461	XP_018849298.1	E3 ubiquitin-protein ligase RING1-like	Juglans regia	ONI09528.1
TRINITY_DN19119_c0_g1::TRINITY_DN19119_c0_g1_i6::g.112459::m.112459	1,16E-140	415	KRH76261.1	hypothetical protein GLYMA_01G142600	Glycine max	XP_014630670.1

TRINITY_DN17314_c1_g2::TRINITY_DN17314_c1_g2_i7::g.81924::m.81924	2,05E-104	313	OIV96749.1	hypothetical protein TanjilG_11745	Lupinus angustifolius	XP_019417566.1
TRINITY_DN13833_c0_g2::TRINITY_DN13833_c0_g2_i5::g.29925::m.29925	5,84E-83	248	AET04180.2	serine/threonine protein phosphatase 2A	Medicago truncatula	XP_003629704.2
TRINITY_DN13861_c0_g1::TRINITY_DN13861_c0_g1_i7::g.29399::m.29399	2,69E-153	429	XP_018830330.1	peroxisomal membrane protein 11C	Juglans regia	OAY62356.1
TRINITY_DN18605_c15_g2::TRINITY_DN18605_c15_g2_i1::g.103707::m.103707	2,61E-90	276	XP_018816425.1	L-ascorbate oxidase homolog	Juglans regia	XP_018819385.1
TRINITY_DN12655_c1_g2::TRINITY_DN12655_c1_g2_i3::g.14763::m.14763	0	737	XP_008228324.1	serine/threonine protein phosphatase 2A 55 kDa regulatory subunit B beta isoform isoform X3	Prunus mume	XP_020415190.1
TRINITY_DN20026_c6_g1::TRINITY_DN20026_c6_g1_i3::g.128057::m.128057	0	526	XP_018837633.1	cytochrome P450 89A2-like	Juglans regia	XP_018837634.1
TRINITY_DN16058_c1_g1::TRINITY_DN16058_c1_g1_i7::g.61245::m.61245	0	671	KDP45754.1	hypothetical protein JCGZ_17361	Jatropha curcas	XP_012078672.1
TRINITY_DN11865_c0_g1::TRINITY_DN11865_c0_g1_i7::g.9262::m.9262	0	1818	XP_018824098.1	alpha-aminoadipic semialdehyde synthase isoform X1	Juglans regia	OAY26961.1
TRINITY_DN11961_c0_g1::TRINITY_DN11961_c0_g1_i6::g.9678::m.9678	1,10E-130	371	OAY41624.1	hypothetical protein MANES_09G116800	Manihot esculenta	XP_018812032.1
TRINITY_DN15627_c0_g2::TRINITY_DN15627_c0_g2_i1::g.54590::m.54590	0	757	XP_018821636.1	arabinosyltransferase RRA3-like	Juglans regia	ONI32725.1
TRINITY_DN18478_c2_g2::TRINITY_DN18478_c2_g2_i3::g.101133::m.101133	0	1084	XP_018815548.1	long chain acyl-CoA synthetase 4-like	Juglans regia	XP_018824382.1
TRINITY_DN16690_c0_g1::TRINITY_DN16690_c0_g1_i1::g.71666::m.71666	0	974	XP_018806310.1	signal recognition particle subunit SRP72-like	Juglans regia	KDP26748.1
TRINITY_DN17879_c1_g3::TRINITY_DN17879_c1_g3_i5::g.91260::m.91260	0	968	XP_018835197.1	ABC transporter F family member 3	Juglans regia	XP_018835197.1
TRINITY_DN17973_c0_g5::TRINITY_DN17973_c0_g5_i1::g.92489::m.92489	1,00E-129	383	OAY48362.1	hypothetical protein MANES_06G152800	Manihot esculenta	XP_009377558.1
TRINITY_DN19252_c1_g4::TRINITY_DN19252_c1_g4_i7::g.114562::m.114562	9,47E-154	436	XP_018842516.1	rhodanese-like/PpiC domain-containing protein 12, chloroplastic	Juglans regia	XP_018842517.1
TRINITY_DN18739_c0_g3::TRINITY_DN18739_c0_g3_i2::g.105640::m.105640	0	896	KDP23427.1	hypothetical protein JCGZ_23260	Jatropha curcas	XP_012088953.1
TRINITY_DN13888_c0_g2::TRINITY_DN13888_c0_g2_i1::g.29877::m.29877	4,83E-37	124	XP_018850773.1	uncharacterized protein LOC109013215 isoform X2	Juglans regia	XP_018850772.1
TRINITY_DN19344_c5_g2::TRINITY_DN19344_c5_g2_i3::g.115627::m.115627	2,49E-28	114	XP_018845634.1	suppressor protein SRP40-like	Juglans regia	KHN16458.1
TRINITY_DN18418_c0_g3::TRINITY_DN18418_c0_g3_i2::g.100138::m.100138	0	566	XP_018812300.1	uncharacterized protein LOC108984712	Juglans regia	XP_008339938.1
TRINITY_DN18913_c2_g1::TRINITY_DN18913_c2_g1_i5::g.108928::m.108928	0	1357	XP_018829609.1	vacuolar protein sorting-associated protein 35A-like	Juglans regia	KDP23991.1
TRINITY_DN19613_c2_g1::TRINITY_DN19613_c2_g1_i4::g.120850::m.120850	6,26E-119	344	XP_017184434.1	ubiquitin carboxyl-terminal hydrolase 13-like, partial	Malus domestica	OAY40681.1
TRINITY_DN17758_c1_g2::TRINITY_DN17758_c1_g2_i7::g.89243::m.89243	0	635	XP_018830975.1	uncharacterized protein LOC108998739	Juglans regia	OAY48516.1

TRINITY_DN14688_c0_g2::TRINITY_DN14688_c0_g2_i3::g.40630::m.40630	1,95E-178	505	XP_004485538.1	serine decarboxylase 1	Cicer arietinum	XP_004485539.1
TRINITY_DN16770_c0_g2::TRINITY_DN16770_c0_g2_i2::g.73031::m.73031	8,47E-78	235	XP_018849016.1	glutathione S-transferase U8-like	Juglans regia	XP_018849018.1
TRINITY_DN15617_c2_g1::TRINITY_DN15617_c2_g1_i3::g.54449::m.54449	1,40E-67	203	XP_018805495.1	peptidyl-prolyl cis-trans isomerase Pin1 isoform X2	Juglans regia	XP_018822042.1
TRINITY_DN19193_c1_g3::TRINITY_DN19193_c1_g3_i5::g.113622::m.113622	1,86E-120	350	XP_018818624.1	3-hydroxyisobutyryl-CoA hydrolase 1-like	Juglans regia	ONI22132.1
TRINITY_DN11271_c0_g1::TRINITY_DN11271_c0_g1_i1::g.6832::m.6832	1,54E-109	316	XP_018820087.1	tankyrase	Juglans regia	OIV89168.1
TRINITY_DN17765_c0_g1::TRINITY_DN17765_c0_g1_i1::g.89341::m.89341	0	580	XP_008368822.1	homocysteine S-methyltransferase 2-like	Malus domestica	XP_009370794.1
TRINITY_DN13374_c2_g1::TRINITY_DN13374_c2_g1_i4::g.22819::m.22819	0	890	XP_018806906.1	3-oxoacyl-[acyl-carrier-protein synthase II, chloroplastic-like	Juglans regia	XP_018820205.1
TRINITY_DN15833_c5_g1::TRINITY_DN15833_c5_g1_i12::g.57896::m.57896	3,05E-102	298	XP_018503189.1	probable ADP-ribosylation factor GTPase-activating protein AGD15	Pyrus x bretschneideri	XP_008346894.1
TRINITY_DN17806_c2_g2::TRINITY_DN17806_c2_g2_i4::g.90030::m.90030	0	1158	XP_018858563.1	protein transport protein SEC16B homolog	Juglans regia	XP_018859927.1
TRINITY_DN15514_c4_g2::TRINITY_DN15514_c4_g2_i2::g.53063::m.53063	0	992	KDP45840.1	hypothetical protein JCGZ_17447	Jatropha curcas	XP_012079840.1
TRINITY_DN15090_c0_g1::TRINITY_DN15090_c0_g1_i3::g.46611::m.46611	0	2083	XP_018816763.1	protease Do-like 7	Juglans regia	ONI17440.1
TRINITY_DN12620_c0_g1::TRINITY_DN12620_c0_g1_i4::g.14272::m.14272	0	875	XP_018820021.1	E3 ubiquitin-protein ligase BRE1-like 1 isoform X2	Juglans regia	XP_018820012.1
TRINITY_DN10821_c0_g1::TRINITY_DN10821_c0_g1_i1::g.5589::m.5589	6,42E-116	332	XP_018836742.1	mitochondrial import receptor subunit TOM20-like	Juglans regia	XP_018852624.1
TRINITY_DN12247_c0_g5::TRINITY_DN12247_c0_g5_i2::g.11476::m.11476	0	756	XP_018844607.1	cation/H(+) antiporter 15-like	Juglans regia	ONI14265.1
TRINITY_DN17715_c1_g2::TRINITY_DN17715_c1_g2_i7::g.88682::m.88682	0	534	XP_018848132.1	uncharacterized protein LOC109011398	Juglans regia	XP_009343901.1
TRINITY_DN13507_c0_g2::TRINITY_DN13507_c0_g2_i4::g.24688::m.24688	2,46E-72	215	XP_018833220.1	60S ribosomal protein L32-1-like	Juglans regia	XP_018833221.1
TRINITY_DN18452_c0_g2::TRINITY_DN18452_c0_g2_i5::g.100623::m.100623	3,84E-73	232	XP_018859162.1	putative 3,4-dihydroxy-2-butanone kinase, partial	Juglans regia	XP_008240398.1
TRINITY_DN18940_c3_g1::TRINITY_DN18940_c3_g1_i4::g.109190::m.109190	3,91E-68	221	XP_018835985.1	ATP-dependent zinc metalloprotease FTSH 10, mitochondrial-like	Juglans regia	XP_018850454.1
TRINITY_DN19263_c0_g3::TRINITY_DN19263_c0_g3_i3::g.114810::m.114810	0	684	XP_018813437.1	probable cytosolic oligopeptidase A	Juglans regia	XP_018837044.1
TRINITY_DN16828_c3_g2::TRINITY_DN16828_c3_g2_i1::g.74126::m.74126	3,04E-92	274	XP_018830672.1	choline-phosphate cytidylyltransferase 2-like	Juglans regia	ONI17886.1
TRINITY_DN15895_c3_g2::TRINITY_DN15895_c3_g2_i1::g.57724::m.57724	2,95E-132	385	XP_018846484.1	28 kDa ribonucleoprotein, chloroplastic-like	Juglans regia	ONI19760.1
TRINITY_DN18527_c2_g1::TRINITY_DN18527_c2_g1_i1::g.101980::m.101980	6,83E-55	181	XP_018828437.1	UDP-glycosyltransferase 87A1-like	Juglans regia	XP_018828459.1

TRINITY_DN18999_c4_g1::TRINITY_DN18999_c4_g1_i2::g.110202::m.110202	1,93E-151	430	XP_018820983.1	GLABRA2 expression modulator-like	Juglans regia	XP_009376597.1
TRINITY_DN16996_c2_g1::TRINITY_DN16996_c2_g1_i5::g.76760::m.76760	0	1170	XP_018856630.1	prolyl endopeptidase-like	Juglans regia	XP_018812062.1
TRINITY_DN17420_c0_g1::TRINITY_DN17420_c0_g1_i9::g.83584::m.83584	0	617	XP_018807997.1	glyceraldehyde-3-phosphate dehydrogenase, cytosolic-like	Juglans regia	AES72079.1
TRINITY_DN18991_c0_g1::TRINITY_DN18991_c0_g1_i4::g.110139::m.110139	3,76E-154	456	XP_018834221.1	far upstream element-binding protein 2-like isoform X2	Juglans regia	XP_018834220.1
TRINITY_DN16630_c2_g2::TRINITY_DN16630_c2_g2_i3::g.70772::m.70772	0	714	XP_018823451.1	bifunctional D-cysteine desulfhydrase/1-aminocyclopropane-1-carboxylate deaminase, mitochondrial	Juglans regia	ONI09471.1
TRINITY_DN17508_c5_g4::TRINITY_DN17508_c5_g4_i2::g.85425::m.85425	2,82E-20	88,2	XP_018817991.1	exopolygalacturonase-like	Juglans regia	XP_018817992.1
TRINITY_DN16170_c0_g1::TRINITY_DN16170_c0_g1_i3::g.63133::m.63133	0	1321	XP_018817103.1	long chain acyl-CoA synthetase 9, chloroplastic	Juglans regia	XP_018812536.1
TRINITY_DN13107_c5_g1::TRINITY_DN13107_c5_g1_i1::g.19946::m.19946	1,19E-50	167	XP_018837699.1	oleosin 18.2 kDa-like	Juglans regia	OAY47824.1
TRINITY_DN17688_c2_g2::TRINITY_DN17688_c2_g2_i2::g.88270::m.88270	1,49E-42	145	GAU16385.1	hypothetical protein TSUD_117340	Trifolium subterraneum	OIW17390.1
TRINITY_DN12789_c1_g2::TRINITY_DN12789_c1_g2_i26::g.15965::m.15965	2,19E-86	257	XP_018806698.1	somatic embryogenesis receptor kinase 2-like	Juglans regia	XP_008389932.1
TRINITY_DN16664_c4_g1::TRINITY_DN16664_c4_g1_i4::g.71662::m.71662	1,67E-45	160	XP_018851780.1	la-related protein 1C-like	Juglans regia	XP_018856743.1
TRINITY_DN15784_c0_g1::TRINITY_DN15784_c0_g1_i2::g.57047::m.57047	0	1315	XP_018842610.1	neutral ceramidase-like	Juglans regia	XP_018837606.1
TRINITY_DN17576_c2_g1::TRINITY_DN17576_c2_g1_i10::g.86267::m.86267	8,28E-49	161	XP_018821662.1	desumoylating isopeptidase 1-like	Juglans regia	XP_018821664.1
TRINITY_DN20043_c8_g6::TRINITY_DN20043_c8_g6_i2::g.128243::m.128243	3,30E-118	355	XP_018858135.1	LOW QUALITY PROTEIN: phospholipase A-2-activating protein	Juglans regia	OAY25488.1
TRINITY_DN17136_c2_g4::TRINITY_DN17136_c2_g4_i1::g.79232::m.79232	3,78E-147	421	XP_018826990.1	uncharacterized protein LOC108995816	Juglans regia	OAY42107.1
TRINITY_DN17588_c1_g2::TRINITY_DN17588_c1_g2_i1::g.86528::m.86528	4,99E-126	358	XP_018855277.1	peptide methionine sulfoxide reductase B5-like	Juglans regia	XP_018844456.1
TRINITY_DN12440_c1_g1::TRINITY_DN12440_c1_g1_i2::g.13042::m.13042	0	968	XP_018831593.1	aldehyde dehydrogenase family 2 member B4, mitochondrial isoform X1	Juglans regia	XP_018831594.1
TRINITY_DN14203_c2_g2::TRINITY_DN14203_c2_g2_i3::g.33825::m.33825	0	1623	XP_018839604.1	chaperone protein ClpB4, mitochondrial	Juglans regia	OIW14979.1
TRINITY_DN16295_c1_g3::TRINITY_DN16295_c1_g3_i8::g.65237::m.65237	0	625	XP_018821643.1	uncharacterized protein LOC108991725	Juglans regia	XP_018848582.1
TRINITY_DN14603_c3_g1::TRINITY_DN14603_c3_g1_i1::g.39490::m.39490	0	1598	XP_018830142.1	peroxisomal ATPase pex6-like	Juglans regia	XP_018821222.1
TRINITY_DN17919_c1_g4::TRINITY_DN17919_c1_g4_i5::g.91938::m.91938	0	1759	ONH94219.1	hypothetical protein PRUPE_7G004800	Prunus persica	XP_020423622.1

TRINITY_DN16456_c0_g2::TRINITY_DN16456_c0_g2_i7::g.67919::m.67919	3,94E-160	462	XP_018859944.1	uncharacterized protein LOC109021706	Juglans regia	XP_018824342.1
TRINITY_DN18783_c5_g1::TRINITY_DN18783_c5_g1_i3::g.106356::m.106356	0	887	XP_018818227.1	serine carboxypeptidase-like 20	Juglans regia	AFK43057.1
TRINITY_DN14585_c2_g1::TRINITY_DN14585_c2_g1_i7::g.39202::m.39202	8,66E-118	337	XP_018821284.1	GDSL esterase/lipase At5g62930 isoform X2	Juglans regia	XP_018821283.1
TRINITY_DN17674_c1_g2::TRINITY_DN17674_c1_g2_i8::g.88061::m.88061	0	841	XP_018841870.1	uncharacterized protein LOC109006898	Juglans regia	XP_018826237.1
TRINITY_DN15931_c0_g1::TRINITY_DN15931_c0_g1_i5::g.59103::m.59103	9,19E-165	472	XP_008237677.1	serine carboxypeptidase-like 42	Prunus mume	ONH89835.1
TRINITY_DN15984_c0_g3::TRINITY_DN15984_c0_g3_i1::g.59910::m.59910	2,29E-109	319	XP_018859330.1	protein STRICTOSIDINE SYNTHASE-LIKE 5-like, partial	Juglans regia	XP_018859332.1
TRINITY_DN15696_c0_g5::TRINITY_DN15696_c0_g5_i1::g.55738::m.55738	1,22E-161	470	XP_018858135.1	LOW QUALITY PROTEIN: phospholipase A-2-activating protein	Juglans regia	XP_018858135.1
TRINITY_DN13415_c1_g2::TRINITY_DN13415_c1_g2_i6::g.23608::m.23608	0	619	XP_018831119.1	putative lipase ROG1 isoform X2	Juglans regia	XP_018831117.1
TRINITY_DN10290_c0_g3::TRINITY_DN10290_c0_g3_i1::g.4573::m.4573	0	531	XP_018844550.1	tryptophan synthase alpha chain-like	Juglans regia	XP_018827345.1
TRINITY_DN17086_c3_g1::TRINITY_DN17086_c3_g1_i14::g.77558::m.77558	0	709	XP_008372070.1	PTI1-like tyrosine-protein kinase 1 isoform X1	Malus domestica	XP_009345628.1
TRINITY_DN15448_c0_g1::TRINITY_DN15448_c0_g1_i6::g.51979::m.51979	3,78E-172	489	XP_018807641.1	arginine biosynthesis bifunctional protein ArgJ, chloroplastic	Juglans regia	XP_020990889.1
TRINITY_DN17327_c0_g4::TRINITY_DN17327_c0_g4_i4::g.82004::m.82004	1,42E-102	302	XP_018848101.1	dehydrogenase/reductase SDR family member 12 isoform X1	Juglans regia	XP_018848102.1
TRINITY_DN18850_c2_g1::TRINITY_DN18850_c2_g1_i14::g.107185::m.107185	0	810	XP_018809451.1	acetate/butyrate--CoA ligase AAE7, peroxisomal	Juglans regia	XP_008340623.1
TRINITY_DN15339_c5_g2::TRINITY_DN15339_c5_g2_i1::g.49931::m.49931	0	1270	XP_018827878.1	uncharacterized protein LOC108996435 isoform X1	Juglans regia	XP_018827896.1
TRINITY_DN11883_c0_g2::TRINITY_DN11883_c0_g2_i5::g.9377::m.9377	0	1063	XP_004515814.1	probable inactive purple acid phosphatase 27	Cicer arietinum	XP_016190655.1
TRINITY_DN15187_c1_g1::TRINITY_DN15187_c1_g1_i9::g.47932::m.47932	1,75E-69	213	XP_018822762.1	RNA-binding protein 38-like isoform X1	Juglans regia	XP_018822763.1
TRINITY_DN18055_c0_g1::TRINITY_DN18055_c0_g1_i4::g.94445::m.94445	0	3810	XP_018843075.1	DExH-box ATP-dependent RNA helicase DExH12	Juglans regia	OAY22523.1
TRINITY_DN17443_c0_g6::TRINITY_DN17443_c0_g6_i1::g.83849::m.83849	0	923	XP_018842578.1	L-gulonolactone oxidase 3-like	Juglans regia	XP_008220057.1
TRINITY_DN17889_c3_g3::TRINITY_DN17889_c3_g3_i2::g.91373::m.91373	4,91E-80	243	XP_018836516.1	caffeoylshikimate esterase-like	Juglans regia	ONI24143.1
TRINITY_DN16290_c1_g2::TRINITY_DN16290_c1_g2_i6::g.65201::m.65201	0	1093	XP_018831786.1	NAD-dependent malic enzyme 59 kDa isoform, mitochondrial	Juglans regia	KDP28665.1
TRINITY_DN16914_c0_g2::TRINITY_DN16914_c0_g2_i3::g.75483::m.75483	4,28E-68	206	XP_018814519.1	peptidyl-prolyl cis-trans isomerase FKBP20-1	Juglans regia	KDP44932.1
TRINITY_DN16356_c0_g1::TRINITY_DN16356_c0_g1_i13::g.66037::m.66037	4,72E-140	406	XP_018825908.1	LIMR family protein At5g01460	Juglans regia	KHN07715.1

TRINITY_DN16552_c0_g2::TRINITY_DN16552_c0_g2_i2::g.69237::m.69237	7,13E-79	237	KHN31490.1	Peroxygenase 2	Glycine soja	KRH68777.1
TRINITY_DN13122_c2_g7::TRINITY_DN13122_c2_g7_i5::g.20188::m.20188	5,89E-58	179	XP_008229999.1	uncharacterized protein LOC103329321	Prunus mume	ONI01557.1
TRINITY_DN18287_c2_g1::TRINITY_DN18287_c2_g1_i6::g.98094::m.98094	0	701	XP_018826105.1	glutamine synthetase leaf isozyme, chloroplastic	Juglans regia	XP_018826106.1
TRINITY_DN15932_c0_g5::TRINITY_DN15932_c0_g5_i5::g.59228::m.59228	0	558	XP_018856751.1	eukaryotic translation initiation factor 5B-like, partial	Juglans regia	XP_018848181.1
TRINITY_DN17310_c0_g1::TRINITY_DN17310_c0_g1_i2::g.81834::m.81834	0	655	XP_018829410.1	splicing factor U2af large subunit B-like isoform X6	Juglans regia	XP_018826445.1
TRINITY_DN15542_c3_g2::TRINITY_DN15542_c3_g2_i4::g.53532::m.53532	3,52E-81	246	XP_018835712.1	uncharacterized membrane protein At1g06890-like	Juglans regia	XP_018835713.1
TRINITY_DN18437_c2_g2::TRINITY_DN18437_c2_g2_i5::g.100589::m.100589	0	2755	XP_018829159.1	brefeldin A-inhibited guanine nucleotide-exchange protein 1 like isoform X1	Juglans regia	XP_018841580.1
TRINITY_DN17906_c0_g2::TRINITY_DN17906_c0_g2_i5::g.91748::m.91748	0	904	KDP36969.1	hypothetical protein JCGZ_08561	Jatropha curcas	XP_012073486.1
TRINITY_DN12593_c3_g1::TRINITY_DN12593_c3_g1_i6::g.14142::m.14142	0	827	XP_018820957.1	ATP-dependent 6-phosphofructokinase 5, chloroplastic-like isoform X1	Juglans regia	XP_018830337.1
TRINITY_DN18611_c0_g1::TRINITY_DN18611_c0_g1_i4::g.103412::m.103412	0	858	XP_018832851.1	ABC transporter F family member 4	Juglans regia	XP_018832851.1
TRINITY_DN14624_c0_g1::TRINITY_DN14624_c0_g1_i4::g.39690::m.39690	1,62E-128	366	XP_018845530.1	6,7-dimethyl-8-ribityllumazine synthase, chloroplastic	Juglans regia	XP_018845612.1
TRINITY_DN19014_c2_g2::TRINITY_DN19014_c2_g2_i8::g.110573::m.110573	0	1840	XP_018808616.1	phosphoenolpyruvate carboxylase 2	Juglans regia	OAY57364.1
TRINITY_DN16277_c1_g3::TRINITY_DN16277_c1_g3_i4::g.64929::m.64929	3,70E-65	209	XP_018835532.1	multiple organellar RNA editing factor 1, mitochondrial	Juglans regia	XP_008339499.1
TRINITY_DN17957_c0_g1::TRINITY_DN17957_c0_g1_i11::g.92631::m.92631	0	5894	XP_018813247.1	E3 ubiquitin-protein ligase UPL1-like	Juglans regia	XP_018813253.1
TRINITY_DN15571_c4_g3::TRINITY_DN15571_c4_g3_i4::g.54049::m.54049	0	753	XP_018831543.1	mannose-1-phosphate guanyltransferase alpha-like isoform X2	Juglans regia	XP_018831541.1
TRINITY_DN11568_c0_g1::TRINITY_DN11568_c0_g1_i1::g.7589::m.7589	1,90E-93	275	XP_018811558.1	outer envelope pore protein 16-2, chloroplastic isoform X1	Juglans regia	ONI28085.1
TRINITY_DN12349_c8_g2::TRINITY_DN12349_c8_g2_i3::g.12071::m.12071	1,09E-89	267	XP_018809112.1	binding partner of ACD11 1-like	Juglans regia	ONI05935.1
TRINITY_DN12678_c0_g1::TRINITY_DN12678_c0_g1_i7::g.14864::m.14864	0	786	XP_018824522.1	signal recognition particle subunit SRP68	Juglans regia	XP_018824523.1
TRINITY_DN16016_c2_g1::TRINITY_DN16016_c2_g1_i9::g.60539::m.60539	2,65E-71	213	XP_018812852.1	uncharacterized protein At2g34160-like	Juglans regia	OAY27368.1
TRINITY_DN11023_c0_g2::TRINITY_DN11023_c0_g2_i1::g.6151::m.6151	0	574	XP_020422962.1	putative E3 ubiquitin-protein ligase LIN-1	Prunus persica	OAY54637.1
TRINITY_DN18955_c2_g1::TRINITY_DN18955_c2_g1_i2::g.109309::m.109309	2,08E-78	231	OAY42085.1	hypothetical protein MANES_09G151800	Manihot esculenta	OAY42086.1
TRINITY_DN17913_c4_g1::TRINITY_DN17913_c4_g1_i1::g.91856::m.91856	0	701	XP_018824898.1	glycerophosphodiester phosphodiesterase GDPD6	Juglans regia	ONI08875.1

TRINITY_DN18697_c0_g2::TRINITY_DN18697_c0_g2_i2::g.103311::m.103311	0	852	XP_018845274.1	probable nucleolar protein 5-2	Juglans regia	XP_018845272.1
TRINITY_DN15624_c0_g1::TRINITY_DN15624_c0_g1_i1::g.54548::m.54548	0	1511	XP_018815732.1	probable acyl-CoA dehydrogenase IBR3	Juglans regia	OAY56055.1
TRINITY_DN12621_c1_g1::TRINITY_DN12621_c1_g1_i2::g.14309::m.14309	1,17E-143	407	XP_018846418.1	acid phosphatase 1-like	Juglans regia	XP_008242463.1
TRINITY_DN15292_c1_g3::TRINITY_DN15292_c1_g3_i1::g.49799::m.49799	2,61E-84	259	XP_018832707.1	uncharacterized protein LOC109000333	Juglans regia	KDP23730.1
TRINITY_DN16971_c2_g1::TRINITY_DN16971_c2_g1_i8::g.76469::m.76469	1,01E-78	240	OAY27875.1	hypothetical protein MANES_15G022900	Manihot esculenta	XP_018846892.1
TRINITY_DN15274_c1_g2::TRINITY_DN15274_c1_g2_i1::g.49397::m.49397	8,30E-55	184	XP_018831636.1	phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and protein-tyrosine-phosphatase PTEN2A-like	Juglans regia	XP_018831637.1
TRINITY_DN17008_c0_g1::TRINITY_DN17008_c0_g1_i7::g.77048::m.77048	1,66E-126	365	XP_018860153.1	sulfite oxidase	Juglans regia	XP_018860154.1
TRINITY_DN18404_c1_g1::TRINITY_DN18404_c1_g1_i7::g.100040::m.100040	0	887	KDP29923.1	hypothetical protein JCGZ_18492	Jatropha curcas	XP_012081460.1
TRINITY_DN18356_c1_g1::TRINITY_DN18356_c1_g1_i9::g.99317::m.99317	0	876	XP_018856983.1	conserved oligomeric Golgi complex subunit 5	Juglans regia	XP_008229436.1
TRINITY_DN17060_c1_g1::TRINITY_DN17060_c1_g1_i6::g.77747::m.77747	0	566	XP_018835418.1	protein-lysine N-methyltransferase Mettl10-like	Juglans regia	XP_018817005.1
TRINITY_DN14005_c1_g1::TRINITY_DN14005_c1_g1_i1::g.31333::m.31333	0	769	XP_018816505.1	probable L-cysteine desulfhydrase, chloroplastic	Juglans regia	XP_018816506.1
TRINITY_DN16201_c3_g1::TRINITY_DN16201_c3_g1_i2::g.62696::m.62696	2,57E-61	186	KYP67103.1	60S ribosomal protein L37a	Cajanus cajan	XP_012075387.1
TRINITY_DN12639_c0_g1::TRINITY_DN12639_c0_g1_i2::g.14158::m.14158	9,33E-111	323	CAX05443.1	unnamed protein product	Glycine max	CAX05471.1
TRINITY_DN15473_c1_g1::TRINITY_DN15473_c1_g1_i2::g.52569::m.52569	0	762	XP_018811842.1	uncharacterized protein LOC108984369	Juglans regia	XP_018811842.1
TRINITY_DN17388_c0_g2::TRINITY_DN17388_c0_g2_i7::g.82945::m.82945	7,91E-177	493	XP_018850886.1	ribulose-phosphate 3-epimerase, chloroplastic	Juglans regia	KYP55554.1
TRINITY_DN19219_c1_g1::TRINITY_DN19219_c1_g1_i14::g.114200::m.114200	0	919	XP_018838318.1	protein STRUBBELIG-RECEPTOR FAMILY 5-like	Juglans regia	KDP25030.1
TRINITY_DN16821_c1_g1::TRINITY_DN16821_c1_g1_i1::g.73860::m.73860	2,50E-45	151	XP_018836814.1	uncharacterized protein LOC109003222	Juglans regia	XP_018805269.1
TRINITY_DN18965_c3_g1::TRINITY_DN18965_c3_g1_i3::g.109455::m.109455						
TRINITY_DN16438_c0_g4::TRINITY_DN16438_c0_g4_i1::g.67637::m.67637	0	1035	XP_018826754.1	probable galactinol--sucrose galactosyltransferase 6 isoform X1	Juglans regia	XP_018826755.1
TRINITY_DN16330_c0_g1::TRINITY_DN16330_c0_g1_i8::g.66108::m.66108	0	526	XP_018832022.1	exocyst complex component EXO70A1-like, partial	Juglans regia	XP_012074334.1
TRINITY_DN19616_c4_g3::TRINITY_DN19616_c4_g3_i5::g.120935::m.120935	0	1283	XP_018851380.1	uncharacterized protein LOC109013676	Juglans regia	XP_018856765.1

TRINITY_DN17970_c3_g1::TRINITY_DN17970_c3_g1_i6::g.92954::m.92954	0	810	OAY33567.1	hypothetical protein MANES_13G107500	Manihot esculenta	KDP32128.1
TRINITY_DN16469_c0_g1::TRINITY_DN16469_c0_g1_i7::g.67034::m.67034	0	1204	ONH98575.1	hypothetical protein PRUPE_7G254900	Prunus persica	ONH98576.1
TRINITY_DN15978_c1_g2::TRINITY_DN15978_c1_g2_i1::g.59851::m.59851	0	1037	XP_018850452.1	ATP-dependent zinc metalloprotease FTSH 10, mitochondrial-like isoform X1	Juglans regia	XP_018850453.1
TRINITY_DN17528_c1_g1::TRINITY_DN17528_c1_g1_i8::g.85347::m.85347	1,79E-100	300	OAY49013.1	hypothetical protein MANES_05G022800	Manihot esculenta	OAY49012.1
TRINITY_DN19544_c2_g6::TRINITY_DN19544_c2_g6_i1::g.119552::m.119552	8,90E-61	186	XP_018830984.1	60S ribosomal protein L31-like	Juglans regia	XP_008219353.1
TRINITY_DN16118_c1_g1::TRINITY_DN16118_c1_g1_i2::g.62411::m.62411	2,72E-149	422	KDP24500.1	hypothetical protein JCGZ_25064	Jatropha curcas	XP_012087936.1
TRINITY_DN14654_c1_g1::TRINITY_DN14654_c1_g1_i1::g.40157::m.40157	0	1136	XP_018859772.1	uncharacterized protein LOC109021570	Juglans regia	XP_018834514.1
TRINITY_DN16121_c0_g1::TRINITY_DN16121_c0_g1_i2::g.62465::m.62465	7,17E-64	196	XP_009372405.1	coatomer subunit zeta-2-like	Pyrus x bretschneideri	XP_009340672.1
TRINITY_DN18674_c2_g2::TRINITY_DN18674_c2_g2_i1::g.104393::m.104393	8,68E-139	399	XP_018828995.1	ER membrane protein complex subunit 10	Juglans regia	OAY32255.1
TRINITY_DN15551_c3_g3::TRINITY_DN15551_c3_g3_i8::g.53664::m.53664	1,49E-126	369	XP_018846833.1	vacuole membrane protein KMS1-like	Juglans regia	XP_018840464.1
TRINITY_DN18806_c2_g1::TRINITY_DN18806_c2_g1_i13::g.106758::m.106758	8,03E-167	466	XP_008239808.1	microtubule-associated protein RP/EB family member 1A	Prunus mume	ONI08630.1
TRINITY_DN14781_c0_g1::TRINITY_DN14781_c0_g1_i21::g.42142::m.42142	0	702	XP_018810936.1	kinesin-4-like isoform X1	Juglans regia	XP_018810937.1
TRINITY_DN13427_c0_g3::TRINITY_DN13427_c0_g3_i1::g.23641::m.23641	9,43E-38	129	XP_008384671.1	40S ribosomal protein S26-3-like	Malus domestica	XP_009354778.1
TRINITY_DN15029_c5_g6::TRINITY_DN15029_c5_g6_i4::g.46001::m.46001	1,48E-64	204	XP_018824102.1	protein FATTY ACID EXPORT 2, chloroplastic-like	Juglans regia	XP_018806598.1
TRINITY_DN15434_c1_g3::TRINITY_DN15434_c1_g3_i3::g.51817::m.51817	1,04E-147	414	XP_015949837.1	ras-related protein RABA4d	Arachis duranensis	ONH95452.1
TRINITY_DN17008_c0_g1::TRINITY_DN17008_c0_g1_i2::g.77040::m.77040	2,47E-128	367	OAY29635.1	hypothetical protein MANES_15G160200	Manihot esculenta	ONI19931.1
TRINITY_DN17336_c2_g1::TRINITY_DN17336_c2_g1_i3::g.82080::m.82080	0	1008	XP_018833558.1	uncharacterized protein LOC109000940	Juglans regia	OAY57262.1
TRINITY_DN15690_c0_g1::TRINITY_DN15690_c0_g1_i7::g.55685::m.55685	3,45E-163	459	XP_018845290.1	probable uridine nucleosidase 2	Juglans regia	XP_008243078.1
TRINITY_DN13180_c0_g1::TRINITY_DN13180_c0_g1_i3::g.20757::m.20757	0	774	XP_009373714.1	uncharacterized protein LOC103962691	Pyrus x bretschneideri	XP_009373715.1
TRINITY_DN11253_c0_g1::TRINITY_DN11253_c0_g1_i2::g.6760::m.6760	1,66E-94	276	XP_018821966.1	frataxin, mitochondrial-like isoform X2	Juglans regia	XP_018821965.1
TRINITY_DN16309_c0_g1::TRINITY_DN16309_c0_g1_i5::g.65915::m.65915	7,15E-61	190	XP_018830835.1	protein phosphatase inhibitor 2 isoform X2	Juglans regia	XP_018830836.1
TRINITY_DN11739_c0_g1::TRINITY_DN11739_c0_g1_i1::g.8613::m.8613	2,12E-171	483	XP_018849967.1	probable mitochondrial import inner membrane translocase subunit TIM21 isoform X1	Juglans regia	XP_018849968.1

TRINITY_DN13614_c0_g1::TRINITY_DN13614_c0_g1_i2::g.26309::m.26309	8,54E-171	478	XP_018843402.1	ubiquinol-cytochrome-c reductase complex assembly factor 1	Juglans regia	XP_018843404.1
TRINITY_DN18223_c0_g1::TRINITY_DN18223_c0_g1_i1::g.97248::m.97248	0	1688	XP_018815773.1	importin beta-like SAD2	Juglans regia	OAY52150.1
TRINITY_DN19809_c1_g1::TRINITY_DN19809_c1_g1_i1::g.124378::m.124378	2,60E-98	296	XP_016182572.1	DEAD-box ATP-dependent RNA helicase 52C	Arachis ipaensis	XP_018834571.1
TRINITY_DN15338_c3_g1::TRINITY_DN15338_c3_g1_i1::g.50560::m.50560	9,20E-122	349	XP_018814792.1	nucleoside diphosphate kinase 2, chloroplastic	Juglans regia	ONI08060.1
TRINITY_DN18884_c1_g1::TRINITY_DN18884_c1_g1_i5::g.108202::m.108202	0	999	XP_018819118.1	exocyst complex component EXO84A	Juglans regia	KDP21256.1
TRINITY_DN12888_c1_g1::TRINITY_DN12888_c1_g1_i1::g.16988::m.16988	7,48E-109	314	XP_018838204.1	heme-binding protein 1	Juglans regia	XP_020215778.1
TRINITY_DN18793_c0_g1::TRINITY_DN18793_c0_g1_i11::g.106461::m.106461	0	522	OAY52792.1	hypothetical protein MANES_04G111700	Manihot esculenta	CAY09187.1
TRINITY_DN14198_c0_g1::TRINITY_DN14198_c0_g1_i4::g.33633::m.33633	3,27E-134	398	XP_014513658.1	granule-bound starch synthase 2, chloroplastic/amyloplastic-like	Vigna radiata var. radiata	KOM56651.1
TRINITY_DN13898_c1_g1::TRINITY_DN13898_c1_g1_i2::g.30051::m.30051	1,76E-157	445	ONI16083.1	hypothetical protein PRUPE_3G078000	Prunus persica	ONI16084.1
TRINITY_DN16513_c0_g3::TRINITY_DN16513_c0_g3_i2::g.68923::m.68923	0	520	XP_018815697.1	syntaxin-124	Juglans regia	OIV91639.1
TRINITY_DN19115_c1_g2::TRINITY_DN19115_c1_g2_i10::g.112400::m.112400	0	778	XP_018824165.1	uridine kinase-like protein 1, chloroplastic isoform X1	Juglans regia	KDP46297.1
TRINITY_DN19612_c0_g2::TRINITY_DN19612_c0_g2_i5::g.120800::m.120800	1,37E-83	250	XP_008235050.1	stress-related protein	Prunus mume	ONH93881.1
TRINITY_DN19652_c2_g1::TRINITY_DN19652_c2_g1_i9::g.121472::m.121472	0	1211	XP_018859492.1	putative uncharacterized protein DDB_G0277255 isoform X5	Juglans regia	XP_018859489.1
TRINITY_DN15221_c1_g3::TRINITY_DN15221_c1_g3_i1::g.48708::m.48708	0	955	XP_018821744.1	probable alpha-galactosidase B	Juglans regia	XP_018821744.1
TRINITY_DN17380_c2_g1::TRINITY_DN17380_c2_g1_i4::g.82866::m.82866	0	1395	KDP22848.1	hypothetical protein JCGZ_00435	Jatropha curcas	XP_012089796.1
TRINITY_DN19589_c2_g2::TRINITY_DN19589_c2_g2_i4::g.120311::m.120311	1,21E-169	473	KHN28969.1	3-oxoacyl-[acyl-carrier-protein synthase I, chloroplastic	Glycine soja	ABJ90468.1
TRINITY_DN12563_c3_g1::TRINITY_DN12563_c3_g1_i1::g.13893::m.13893	2,15E-76	228	XP_018834275.1	uncharacterized protein At4g28440	Juglans regia	XP_018805198.1
TRINITY_DN14756_c11_g3::TRINITY_DN14756_c11_g3_i1::g.41922::m.41922	0	621	XP_018808557.1	pectinesterase-like	Juglans regia	XP_008223522.1
TRINITY_DN16369_c2_g1::TRINITY_DN16369_c2_g1_i6::g.66520::m.66520	2,14E-80	278	XP_018823799.1	translocase of chloroplast 120, chloroplastic-like	Juglans regia	XP_018823799.1
TRINITY_DN14258_c0_g1::TRINITY_DN14258_c0_g1_i5::g.34520::m.34520	0	993	XP_018851343.1	LETM1 and EF-hand domain-containing protein 1, mitochondrial	Juglans regia	XP_018851344.1
TRINITY_DN16789_c2_g5::TRINITY_DN16789_c2_g5_i1::g.73225::m.73225	0	798	XP_018852491.1	uncharacterized protein LOC109014469	Juglans regia	OAY42749.1
TRINITY_DN17303_c1_g1::TRINITY_DN17303_c1_g1_i7::g.81652::m.81652	0	536	ONI18361.1	hypothetical protein PRUPE_3G211200	Prunus persica	XP_020416553.1

TRINITY_DN19981_c2_g1::TRINITY_DN19981_c2_g1_i2::g.127291::m.127291	0	1149	XP_018842158.1	probable splicing factor 3A subunit 1 isoform X1	Juglans regia	XP_018842159.1
TRINITY_DN13121_c2_g1::TRINITY_DN13121_c2_g1_i1::g.20130::m.20130	0	684	XP_018807788.1	pre-mRNA-processing factor 19-like	Juglans regia	XP_018857360.1
TRINITY_DN17618_c2_g2::TRINITY_DN17618_c2_g2_i9::g.87148::m.87148	2,18E-64	207	XP_018837633.1	cytochrome P450 89A2-like	Juglans regia	XP_018837634.1
TRINITY_DN18372_c2_g8::TRINITY_DN18372_c2_g8_i1::g.99519::m.99519	2,92E-49	171	XP_018845025.1	phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and protein-tyrosine-phosphatase PTEN2A-like	Juglans regia	KDP31989.1
TRINITY_DN18320_c3_g3::TRINITY_DN18320_c3_g3_i3::g.98813::m.98813	1,07E-157	447	XP_018808205.1	polyadenylate-binding protein RBP45-like isoform X1	Juglans regia	XP_018808205.1
TRINITY_DN15818_c1_g1::TRINITY_DN15818_c1_g1_i7::g.57419::m.57419	4,14E-95	280	XP_018835166.1	uncharacterized protein LOC109002047	Juglans regia	ONI23151.1
TRINITY_DN17545_c0_g1::TRINITY_DN17545_c0_g1_i11::g.84946::m.84946	0	1341	XP_018829229.1	glycine--tRNA ligase, mitochondrial 1-like	Juglans regia	XP_018841636.1
TRINITY_DN18096_c1_g1::TRINITY_DN18096_c1_g1_i2::g.95119::m.95119	0	1057	XP_018806781.1	ERAD-associated E3 ubiquitin-protein ligase component HRD3A	Juglans regia	ONI09356.1
TRINITY_DN13342_c2_g1::TRINITY_DN13342_c2_g1_i2::g.22558::m.22558	9,54E-146	417	CAA69726.1	mitochondrial phosphate translocator	Betula pendula	XP_018832657.1
TRINITY_DN16074_c1_g1::TRINITY_DN16074_c1_g1_i7::g.61513::m.61513	0	1577	XP_018817529.1	serine/threonine-protein phosphatase BSL3-like	Juglans regia	XP_018829734.1
TRINITY_DN12750_c0_g2::TRINITY_DN12750_c0_g2_i1::g.15503::m.15503	0	590	XP_018849186.1	pectin acetylesterase 8-like	Juglans regia	XP_018832508.1
TRINITY_DN19511_c1_g1::TRINITY_DN19511_c1_g1_i3::g.119032::m.119032	0	795	XP_018810471.1	COP9 signalosome complex subunit 1-like	Juglans regia	XP_018810472.1
TRINITY_DN13260_c0_g2::TRINITY_DN13260_c0_g2_i1::g.21634::m.21634	4,88E-59	197	XP_018821273.1	peroxisomal membrane protein PEX14	Juglans regia	XP_018821274.1
TRINITY_DN19385_c2_g2::TRINITY_DN19385_c2_g2_i1::g.117065::m.117065	1,73E-36	135	KDP39665.1	hypothetical protein JCGZ_02685	Jatropha curcas	XP_012070406.1
TRINITY_DN14374_c0_g1::TRINITY_DN14374_c0_g1_i4::g.36023::m.36023	1,33E-119	342	XP_018856668.1	protein LURP-one-related 10-like isoform X1	Juglans regia	KRH00381.1
TRINITY_DN14718_c0_g3::TRINITY_DN14718_c0_g3_i4::g.41295::m.41295	5,98E-152	436	ONH97960.1	hypothetical protein PRUPE_7G221100	Prunus persica	KDP33810.1
TRINITY_DN14491_c1_g3::TRINITY_DN14491_c1_g3_i2::g.37906::m.37906	1,72E-133	399	XP_018858250.1	uncharacterized protein LOC109020252	Juglans regia	XP_020421355.1
TRINITY_DN18652_c1_g2::TRINITY_DN18652_c1_g2_i5::g.104071::m.104071	9,86E-74	231	KYP71032.1	UBA and UBX domain-containing protein At4g15410 family	Cajanus cajan	XP_020212365.1
TRINITY_DN17169_c0_g2::TRINITY_DN17169_c0_g2_i1::g.79657::m.79657	1,28E-67	209	XP_018836881.1	anamorsin homolog	Juglans regia	XP_018836882.1
TRINITY_DN17784_c0_g1::TRINITY_DN17784_c0_g1_i3::g.89656::m.89656	0	509	XP_018845293.1	outer envelope pore protein 37, chloroplastic-like	Juglans regia	XP_018839352.1
TRINITY_DN15619_c2_g2::TRINITY_DN15619_c2_g2_i4::g.54476::m.54476	4,42E-63	202	XP_018844917.1	transmembrane protein 120 homolog	Juglans regia	XP_012086582.1

TRINITY_DN15799_c0_g1::TRINITY_DN15799_c0_g1_i8::g.55961::m.55961	1,32E-115	335	XP_018842015.1	endochitinase-like	Juglans regia	XP_008241979.1
TRINITY_DN18926_c2_g1::TRINITY_DN18926_c2_g1_i1::g.109132::m.109132	0	1313	XP_018822784.1	conserved oligomeric Golgi complex subunit 4	Juglans regia	OAY62076.1
TRINITY_DN15946_c1_g1::TRINITY_DN15946_c1_g1_i2::g.59352::m.59352	0	804	XP_009361638.1	glycylpeptide N-tetradecanoyltransferase 1-like	Pyrus x bretschneideri	XP_009361640.1
TRINITY_DN18496_c3_g1::TRINITY_DN18496_c3_g1_i9::g.99949::m.99949	0	1005	XP_018805796.1	protein WEAK CHLOROPLAST MOVEMENT UNDER BLUE LIGHT 1-like	Juglans regia	XP_018805797.1
TRINITY_DN11371_c0_g2::TRINITY_DN11371_c0_g2_i2::g.7148::m.7148	0	627	XP_018813685.1	protein CIA1-like	Juglans regia	XP_018835731.1
TRINITY_DN11955_c0_g2::TRINITY_DN11955_c0_g2_i1::g.9673::m.9673	6,36E-162	461	XP_018814780.1	3-oxoacyl-[acyl-carrier-protein reductase 4 isoform X2	Juglans regia	XP_018814779.1
TRINITY_DN12552_c0_g1::TRINITY_DN12552_c0_g1_i2::g.13425::m.13425	2,29E-82	245	XP_018806727.1	magnesium-dependent phosphatase 1-like	Juglans regia	KDP29765.1
TRINITY_DN19080_c0_g2::TRINITY_DN19080_c0_g2_i7::g.111803::m.111803	0	1586	XP_018842470.1	probable glutamyl endopeptidase, chloroplastic isoform X2	Juglans regia	XP_018842472.1
TRINITY_DN19854_c2_g2::TRINITY_DN19854_c2_g2_i4::g.124562::m.124562	4,69E-142	424	XP_018842400.1	eukaryotic translation initiation factor 3 subunit C isoform X1	Juglans regia	XP_018842401.1
TRINITY_DN19442_c0_g2::TRINITY_DN19442_c0_g2_i3::g.118018::m.118018	0	912	XP_018842611.1	cytosolic enolase 3	Juglans regia	KDP46567.1
TRINITY_DN18350_c0_g2::TRINITY_DN18350_c0_g2_i2::g.99155::m.99155	2,34E-84	250	XP_018829252.1	uncharacterized protein LOC108997431	Juglans regia	XP_008390244.1
TRINITY_DN12711_c1_g1::TRINITY_DN12711_c1_g1_i4::g.15231::m.15231	1,20E-140	405	ACU22776.1	unknown	Glycine max	KHN47572.1
TRINITY_DN14491_c1_g5::TRINITY_DN14491_c1_g5_i7::g.37912::m.37912	0	892	XP_018858250.1	uncharacterized protein LOC109020252	Juglans regia	XP_020421355.1
TRINITY_DN18628_c2_g1::TRINITY_DN18628_c2_g1_i28::g.103627::m.103627	0	842	AET62908.1	NADH dehydrogenase subunit 5 (mitochondrion)	Millettia pinnata	YP_005090448.1
TRINITY_DN14281_c0_g1::TRINITY_DN14281_c0_g1_i1::g.34852::m.34852	0	752	XP_018827095.1	ubiquinone biosynthesis monooxygenase COQ6, mitochondrial isoform X1	Juglans regia	XP_018827096.1
TRINITY_DN16267_c0_g1::TRINITY_DN16267_c0_g1_i3::g.64801::m.64801	0	699	XP_018821343.1	IST1 homolog	Juglans regia	XP_018809491.1
TRINITY_DN14107_c0_g1::TRINITY_DN14107_c0_g1_i1::g.32583::m.32583	0	654	XP_018859242.1	flowering locus K homology domain-like	Juglans regia	OAY44268.1
TRINITY_DN18942_c3_g3::TRINITY_DN18942_c3_g3_i8::g.109006::m.109006	0	839	XP_018854773.1	heterogeneous nuclear ribonucleoprotein R-like isoform X2	Juglans regia	XP_018854773.1
TRINITY_DN15316_c4_g2::TRINITY_DN15316_c4_g2_i4::g.50087::m.50087	2,82E-108	310	KHN26395.1	Signal peptidase complex catalytic subunit SEC11C	Glycine soja	KRH56207.1
TRINITY_DN18397_c1_g1::TRINITY_DN18397_c1_g1_i2::g.99905::m.99905	0	1845	XP_018846667.1	brefeldin A-inhibited guanine nucleotide-exchange protein 2	Juglans regia	KDP28742.1
TRINITY_DN14957_c1_g1::TRINITY_DN14957_c1_g1_i3::g.44723::m.44723	2,64E-74	237	XP_018811765.1	la protein 1	Juglans regia	XP_008220038.1
TRINITY_DN5432_c0_g1::TRINITY_DN5432_c0_g1_i1::g.1343::m.1343	7,67E-128	364	XP_008360830.1	aldehyde dehydrogenase family 2 member B4, mitochondrial-like, partial	Malus domestica	XP_004508854.1

TRINITY_DN10737_c0_g1::TRINITY_DN10737_c0_g1_i1::g.5423::m.5423	3,79E-111	317	XP_018834778.1	probable N-acetyltransferase san	Juglans regia	OAY27343.1
TRINITY_DN18886_c3_g1::TRINITY_DN18886_c3_g1_i2::g.108068::m.108068	4,46E-147	420	XP_018850608.1	caffeic acid 3-O-methyltransferase	Juglans regia	KDP29212.1
TRINITY_DN19870_c1_g2::TRINITY_DN19870_c1_g2_i5::g.124748::m.124748	1,30E-52	180	XP_018853563.1	aspartokinase 1, chloroplastic-like	Juglans regia	XP_018840015.1
TRINITY_DN16270_c0_g2::TRINITY_DN16270_c0_g2_i15::g.64899::m.64899	0	518	XP_018837992.1	uncharacterized protein LOC109004054	Juglans regia	XP_018837993.1
TRINITY_DN14538_c2_g2::TRINITY_DN14538_c2_g2_i3::g.38504::m.38504	0	583	XP_018820232.1	very-long-chain 3-oxoacyl-CoA reductase 1	Juglans regia	OAY32455.1
TRINITY_DN18432_c0_g1::TRINITY_DN18432_c0_g1_i9::g.99987::m.99987	0	7453	XP_018814243.1	uncharacterized protein LOC108986177 isoform X1	Juglans regia	XP_018814244.1
TRINITY_DN14697_c1_g1::TRINITY_DN14697_c1_g1_i3::g.40725::m.40725	0	604	XP_018819392.1	ethanolamine-phosphate cytidylyltransferase	Juglans regia	XP_018819392.1
TRINITY_DN12130_c0_g1::TRINITY_DN12130_c0_g1_i1::g.10682::m.10682	9,29E-85	248	XP_018849401.1	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 6	Juglans regia	OAY36255.1
TRINITY_DN16549_c1_g2::TRINITY_DN16549_c1_g2_i1::g.69658::m.69658	2,68E-136	384	XP_018827308.1	uncharacterized protein LOC108996034 isoform X1	Juglans regia	XP_018827309.1
TRINITY_DN13928_c0_g1::TRINITY_DN13928_c0_g1_i1::g.30448::m.30448	0	1334	XP_018841693.1	myosin heavy chain, non-muscle isoform X1	Juglans regia	XP_018841693.1
TRINITY_DN13623_c1_g1::TRINITY_DN13623_c1_g1_i6::g.26584::m.26584	0	629	AES82113.1	potassium transporter-like protein	Medicago truncatula	XP_003625895.1
TRINITY_DN15579_c1_g3::TRINITY_DN15579_c1_g3_i1::g.54029::m.54029	0	877	XP_018845393.1	DEAD-box ATP-dependent RNA helicase 8-like	Juglans regia	XP_008232788.1
TRINITY_DN17845_c1_g3::TRINITY_DN17845_c1_g3_i3::g.90638::m.90638	0	583	XP_018823299.1	glucan endo-1,3-beta-glucosidase-like	Juglans regia	OAY61233.1
TRINITY_DN18905_c1_g2::TRINITY_DN18905_c1_g2_i9::g.108635::m.108635	5,50E-67	205	XP_018835503.1	uncharacterized protein LOC109002285	Juglans regia	XP_015943687.1
TRINITY_DN16321_c0_g3::TRINITY_DN16321_c0_g3_i5::g.65822::m.65822	0	696	XP_018810395.1	peroxisomal (S)-2-hydroxy-acid oxidase GLO1	Juglans regia	XP_018819691.1
TRINITY_DN18561_c0_g1::TRINITY_DN18561_c0_g1_i3::g.102624::m.102624	0	1995	XP_018826677.1	uncharacterized protein LOC108995553 isoform X1	Juglans regia	XP_018826678.1
TRINITY_DN13727_c0_g2::TRINITY_DN13727_c0_g2_i11::g.27681::m.27681	6,27E-50	169	XP_018817131.1	uncharacterized protein LOC108988346 isoform X2	Juglans regia	XP_018817130.1
TRINITY_DN13477_c2_g3::TRINITY_DN13477_c2_g3_i1::g.24414::m.24414	0	507	XP_018842612.1	proliferating cell nuclear antigen	Juglans regia	XP_004500211.1
TRINITY_DN11771_c0_g1::TRINITY_DN11771_c0_g1_i2::g.8609::m.8609	0	517	XP_018837754.1	anthranilate phosphoribosyltransferase, chloroplastic-like	Juglans regia	OAY47794.1
TRINITY_DN11029_c0_g1::TRINITY_DN11029_c0_g1_i1::g.6154::m.6154	0	982	XP_018843241.1	malonate--CoA ligase-like isoform X1	Juglans regia	XP_018843242.1
TRINITY_DN19209_c0_g1::TRINITY_DN19209_c0_g1_i7::g.114040::m.114040	6,65E-179	503	XP_018848680.1	eukaryotic translation initiation factor 5B-like	Juglans regia	XP_020533049.1
TRINITY_DN15323_c1_g4::TRINITY_DN15323_c1_g4_i7::g.50170::m.50170	1,22E-82	246	XP_008234339.1	uncharacterized protein LOC103333300	Prunus mume	XP_020411795.1

TRINITY_DN14645_c3_g1::TRINITY_DN14645_c3_g1_i7::g.39449::m.39449	0	1182	XP_018836467.1	mitochondrial substrate carrier family protein C isoform X1	Juglans regia	XP_018836468.1
TRINITY_DN14335_c0_g1::TRINITY_DN14335_c0_g1_i7::g.35543::m.35543	0	597	XP_018842811.1	vacuolar protein sorting-associated protein 26B-like	Juglans regia	XP_018842812.1
TRINITY_DN17475_c1_g1::TRINITY_DN17475_c1_g1_i10::g.84374::m.84374	0	1205	XP_018815848.1	probable ubiquitin conjugation factor E4	Juglans regia	ONI19115.1
TRINITY_DN18714_c0_g3::TRINITY_DN18714_c0_g3_i1::g.105033::m.105033	8,39E-71	214	XP_018850228.1	uncharacterized protein At4g28440-like	Juglans regia	XP_009340594.1
TRINITY_DN18972_c2_g2::TRINITY_DN18972_c2_g2_i2::g.109605::m.109605	0	624	XP_018829145.1	ankyrin repeat domain-containing protein 2B-like	Juglans regia	XP_018841596.1
TRINITY_DN12403_c0_g1::TRINITY_DN12403_c0_g1_i5::g.12601::m.12601	4,89E-43	144	XP_018813172.1	small heat shock protein, chloroplastic-like	Juglans regia	AKP06201.1
TRINITY_DN11347_c0_g1::TRINITY_DN11347_c0_g1_i2::g.7021::m.7021	3,53E-71	216	XP_018831072.1	uncharacterized protein LOC108998821	Juglans regia	XP_009370500.1
TRINITY_DN18196_c4_g4::TRINITY_DN18196_c4_g4_i1::g.96720::m.96720	1,42E-59	185	XP_008374043.1	LIM domain-containing protein WLIM2b-like	Malus domestica	XP_008374043.1
TRINITY_DN19648_c4_g4::TRINITY_DN19648_c4_g4_i4::g.120655::m.120655	1,80E-106	304	XP_008388680.1	40S ribosomal protein S15-4	Malus domestica	XP_008345721.1
TRINITY_DN18301_c0_g2::TRINITY_DN18301_c0_g2_i7::g.97543::m.97543	0	512	XP_018841131.1	protein AIG1-like	Juglans regia	XP_012073509.1
TRINITY_DN15444_c2_g2::TRINITY_DN15444_c2_g2_i4::g.52039::m.52039	7,85E-122	358	XP_018825622.1	heterogeneous nuclear ribonucleoprotein 1	Juglans regia	KDP39313.1
TRINITY_DN19535_c3_g1::TRINITY_DN19535_c3_g1_i2::g.119402::m.119402	1,30E-83	256	XP_018811706.1	probable protein phosphatase 2C 47	Juglans regia	XP_018811707.1
TRINITY_DN12020_c1_g1::TRINITY_DN12020_c1_g1_i2::g.10043::m.10043	1,27E-172	484	OAY25879.1	hypothetical protein MANES_16G002900	Manihot esculenta	KYP62724.1
TRINITY_DN17610_c1_g1::TRINITY_DN17610_c1_g1_i7::g.87051::m.87051	3,09E-78	241	XP_018848057.1	phosphoglucan phosphatase DSP4, amyloplastic-like isoform X1	Juglans regia	XP_018848058.1
TRINITY_DN18503_c1_g1::TRINITY_DN18503_c1_g1_i3::g.101658::m.101658	1,94E-173	484	XP_018832031.1	probable ribose-5-phosphate isomerase 3, chloroplastic	Juglans regia	XP_015968505.1
TRINITY_DN17513_c0_g1::TRINITY_DN17513_c0_g1_i8::g.85061::m.85061	0	2076	XP_018820451.1	tubulin-folding cofactor D	Juglans regia	XP_008232610.1
TRINITY_DN18932_c2_g2::TRINITY_DN18932_c2_g2_i2::g.109083::m.109083	5,94E-176	495	XP_018849565.1	inositol-tetrakisphosphate 1-kinase 1-like	Juglans regia	XP_018849566.1
TRINITY_DN18021_c3_g2::TRINITY_DN18021_c3_g2_i4::g.93827::m.93827	3,88E-32	121	KDP23970.1	hypothetical protein JCGZ_25358	Jatropha curcas	XP_012088477.1
TRINITY_DN13471_c1_g1::TRINITY_DN13471_c1_g1_i4::g.24277::m.24277	2,93E-80	235	XP_018827356.1	bet1-like SNARE 1-1	Juglans regia	XP_018825210.1
TRINITY_DN14922_c2_g1::TRINITY_DN14922_c2_g1_i5::g.44553::m.44553	0	4474	XP_018859294.1	protein SABRE isoform X1	Juglans regia	XP_018859295.1
TRINITY_DN15594_c4_g1::TRINITY_DN15594_c4_g1_i1::g.54180::m.54180	0	694	XP_018839609.1	UDP-N-acetylglucosamine--dolichyl-phosphate N-acetylglucosaminephosphotransferase-like	Juglans regia	XP_008392344.1
TRINITY_DN11209_c0_g1::TRINITY_DN11209_c0_g1_i1::g.6616::m.6616	5,02E-165	463	ALB76795.1	enoyl-CoA hydratase, partial	Jatropha curcas	XP_018815731.1

TRINITY_DN18631_c1_g1::TRINITY_DN18631_c1_g1_i1::g.103584::m.103584	1,29E-166	465	XP_018839985.1	protein YIF1B-like	Juglans regia	XP_018839986.1
TRINITY_DN17980_c0_g1::TRINITY_DN17980_c0_g1_i2::g.92937::m.92937	3,23E-104	324	XP_018845571.1	beta-adaptin-like protein A	Juglans regia	ONI33920.1
TRINITY_DN18446_c0_g1::TRINITY_DN18446_c0_g1_i3::g.100648::m.100648	1,78E-60	197	BAT86921.1	hypothetical protein VIGAN_05025400	Vigna angularis var. angularis	BAA36972.1
TRINITY_DN19548_c1_g1::TRINITY_DN19548_c1_g1_i5::g.119761::m.119761	1,94E-140	403	XP_018837590.1	uncharacterized protein LOC109003755 isoform X2	Juglans regia	XP_018837582.1
TRINITY_DN16896_c1_g1::TRINITY_DN16896_c1_g1_i19::g.75135::m.75135	5,41E-94	273	XP_018826083.1	peptide methionine sulfoxide reductase B5-like isoform X1	Juglans regia	XP_018826084.1
TRINITY_DN14204_c1_g1::TRINITY_DN14204_c1_g1_i2::g.33927::m.33927	2,96E-73	237	XP_018847401.1	TOM1-like protein 2	Juglans regia	XP_018847402.1
TRINITY_DN19434_c0_g1::TRINITY_DN19434_c0_g1_i3::g.117932::m.117932	2,19E-115	340	XP_018830436.1	methyl-CpG-binding domain-containing protein 11-like isoform X1	Juglans regia	XP_018851719.1
TRINITY_DN17973_c0_g1::TRINITY_DN17973_c0_g1_i1::g.92481::m.92481	0	738	OAY30335.1	hypothetical protein MANES_14G022300	Manihot esculenta	OAY48361.1
TRINITY_DN18833_c4_g2::TRINITY_DN18833_c4_g2_i4::g.107207::m.107207	3,48E-145	410	XP_018827478.1	probable carbohydrate esterase At4g34215	Juglans regia	XP_008236370.1
TRINITY_DN16544_c0_g2::TRINITY_DN16544_c0_g2_i7::g.68626::m.68626	3,41E-85	257	ONI25827.1	hypothetical protein PRUPE_2G322200	Prunus persica	XP_007218831.1
TRINITY_DN19860_c5_g1::TRINITY_DN19860_c5_g1_i1::g.124725::m.124725	1,54E-148	441	XP_018833676.1	ATPase 8, plasma membrane-type	Juglans regia	XP_009347012.1
TRINITY_DN48442_c0_g1::TRINITY_DN48442_c0_g1_i1::g.132681::m.132681	3,71E-146	420	XP_018811850.1	imidazole glycerol phosphate synthase hisHF, chloroplastic isoform X3	Juglans regia	XP_018811844.1
TRINITY_DN19061_c2_g6::TRINITY_DN19061_c2_g6_i3::g.111201::m.111201	5,24E-170	474	XP_018821200.1	V-type proton ATPase subunit D-like	Juglans regia	XP_008229383.1
TRINITY_DN14323_c2_g3::TRINITY_DN14323_c2_g3_i2::g.35593::m.35593	0	700	XP_018818781.1	ATPase family AAA domain-containing protein 1-B-like	Juglans regia	XP_018842807.1
TRINITY_DN19440_c4_g2::TRINITY_DN19440_c4_g2_i10::g.117992::m.117992	4,93E-168	473	XP_018816304.1	probable protein disulfide-isomerase A6	Juglans regia	XP_018816304.1
TRINITY_DN18371_c0_g1::TRINITY_DN18371_c0_g1_i2::g.99819::m.99819	7,25E-33	122	OAY37422.1	hypothetical protein MANES_11G100600	Manihot esculenta	OAY37423.1
TRINITY_DN14419_c1_g1::TRINITY_DN14419_c1_g1_i6::g.36874::m.36874	0	1082	XP_018812504.1	probable inactive purple acid phosphatase 2	Juglans regia	AGL44406.1
TRINITY_DN13980_c0_g1::TRINITY_DN13980_c0_g1_i1::g.30892::m.30892	4,85E-180	505	XP_018812444.1	ubiquinone biosynthesis O-methyltransferase, mitochondrial	Juglans regia	XP_012077529.1
TRINITY_DN18731_c0_g5::TRINITY_DN18731_c0_g5_i1::g.105388::m.105388	3,23E-108	315	XP_004485968.1	eukaryotic translation initiation factor 4E-1-like	Cicer arietinum	KHN06937.1
TRINITY_DN13791_c2_g2::TRINITY_DN13791_c2_g2_i3::g.28238::m.28238	0	570	XP_018845774.1	pentatricopeptide repeat-containing protein At4g35850, mitochondrial-like isoform X1	Juglans regia	XP_018845776.1
TRINITY_DN15442_c0_g2::TRINITY_DN15442_c0_g2_i1::g.51251::m.51251	3,99E-77	228	ACU15022.1	unknown	Glycine max	KHN12783.1
TRINITY_DN1265_c0_g1::TRINITY_DN1265_c0_g1_i1::g.324::m.324	2,85E-152	436	XP_018851722.1	SNF1-related protein kinase regulatory subunit gamma-like PV42a	Juglans regia	KDP37073.1

TRINITY_DN14475_c2_g1::TRINITY_DN14475_c2_g1_i7::g.36756::m.36756	9,10E-124	359	XP_018815354.1	squalene synthase-like	Juglans regia	KRH29366.1
TRINITY_DN16138_c0_g1::TRINITY_DN16138_c0_g1_i2::g.62708::m.62708	0	726	XP_018844889.1	ruvB-like protein 1 isoform X1	Juglans regia	XP_018844890.1
TRINITY_DN18532_c1_g1::TRINITY_DN18532_c1_g1_i2::g.102269::m.102269	0	1207	XP_018837526.1	golgin candidate 5 isoform X1	Juglans regia	XP_018837528.1
TRINITY_DN18494_c1_g1::TRINITY_DN18494_c1_g1_i7::g.101464::m.101464	3,35E-140	399	XP_018844403.1	short-chain type dehydrogenase/reductase	Juglans regia	OAY44433.1
TRINITY_DN13527_c0_g1::TRINITY_DN13527_c0_g1_i14::g.25011::m.25011	0	1081	KDP37982.1	hypothetical protein JCGZ_04625	Jatropha curcas	XP_012072113.1
TRINITY_DN19343_c7_g5::TRINITY_DN19343_c7_g5_i1::g.116417::m.116417	4,16E-81	253	KRH09479.1	hypothetical protein GLYMA_16G217900	Glycine max	XP_003548316.1
TRINITY_DN17435_c0_g1::TRINITY_DN17435_c0_g1_i2::g.83592::m.83592	3,43E-142	400	XP_018857020.1	peptidyl-prolyl cis-trans isomerase CYP23	Juglans regia	KDP41170.1
TRINITY_DN12632_c0_g1::TRINITY_DN12632_c0_g1_i1::g.14398::m.14398	3,11E-133	384	XP_018827780.1	protein TIC 21, chloroplastic	Juglans regia	XP_018827781.1
TRINITY_DN13052_c1_g1::TRINITY_DN13052_c1_g1_i8::g.19267::m.19267	7,01E-96	285	XP_018823251.1	THO complex subunit 4A-like isoform X1	Juglans regia	XP_018836017.1
TRINITY_DN16618_c2_g1::TRINITY_DN16618_c2_g1_i4::g.70494::m.70494	0	813	XP_018820267.1	ubiquitin carboxyl-terminal hydrolase MINDY-2-like	Juglans regia	XP_018820490.1
TRINITY_DN17627_c2_g1::TRINITY_DN17627_c2_g1_i6::g.87313::m.87313	2,47E-153	431	XP_018858478.1	uracil phosphoribosyltransferase isoform X1	Juglans regia	XP_018858479.1
TRINITY_DN14266_c0_g5::TRINITY_DN14266_c0_g5_i1::g.34758::m.34758	7,37E-162	469	OAY41017.1	hypothetical protein MANES_09G067300	Manihot esculenta	OAY41017.1
TRINITY_DN15019_c3_g2::TRINITY_DN15019_c3_g2_i1::g.45833::m.45833	0	589	XP_018849372.1	uncharacterized protein LOC109012285	Juglans regia	XP_018818523.1
TRINITY_DN18255_c0_g1::TRINITY_DN18255_c0_g1_i22::g.97730::m.97730	0	547	XP_007150083.1	hypothetical protein PHAVU_005G125100g	Phaseolus vulgaris	ESW22077.1
TRINITY_DN19124_c2_g3::TRINITY_DN19124_c2_g3_i2::g.112438::m.112438	0	539	XP_018816447.1	DUF21 domain-containing protein At2g14520-like isoform X1	Juglans regia	XP_012079460.1
TRINITY_DN13398_c7_g1::TRINITY_DN13398_c7_g1_i2::g.23298::m.23298	4,16E-104	320	XP_018826435.1	acidic leucine-rich nuclear phosphoprotein 32-related protein-like	Juglans regia	XP_018829399.1
TRINITY_DN18939_c0_g2::TRINITY_DN18939_c0_g2_i7::g.109183::m.109183	3,08E-119	353	XP_018828549.1	alpha-glucosidase	Juglans regia	XP_018828549.1
TRINITY_DN13383_c1_g4::TRINITY_DN13383_c1_g4_i2::g.23048::m.23048	0	811	KYP42121.1	hypothetical protein KK1_036495	Cajanus cajan	XP_020239762.1
TRINITY_DN15405_c3_g1::TRINITY_DN15405_c3_g1_i6::g.51555::m.51555	2,58E-90	278	XP_018818346.1	dynamin-related protein 5A	Juglans regia	OAY49012.1
TRINITY_DN12135_c0_g1::TRINITY_DN12135_c0_g1_i2::g.10684::m.10684	7,23E-142	402	XP_018807787.1	GDSL esterase/lipase 7-like	Juglans regia	XP_018806668.1
TRINITY_DN17356_c4_g2::TRINITY_DN17356_c4_g2_i4::g.82383::m.82383	0	835	XP_018811934.1	lysophospholipid acyltransferase 1-like	Juglans regia	XP_018828813.1
TRINITY_DN17524_c0_g2::TRINITY_DN17524_c0_g2_i3::g.85311::m.85311	3,29E-168	474	XP_018816770.1	pyridoxal kinase-like isoform X1	Juglans regia	OAY45362.1

TRINITY_DN11973_c1_g1::TRINITY_DN11973_c1_g1_i7::g.9759::m.9759	0	918	XP_018826789.1	bifunctional purple acid phosphatase 26-like	Juglans regia	XP_008242837.1
TRINITY_DN15456_c0_g1::TRINITY_DN15456_c0_g1_i1::g.52131::m.52131	0	571	XP_018826206.1	acyl-coenzyme A oxidase 4, peroxisomal isoform X1	Juglans regia	XP_018826207.1
TRINITY_DN15793_c0_g1::TRINITY_DN15793_c0_g1_i1::g.57091::m.57091	7,09E-64	194	AFK36986.1	unknown	Lotus japonicus	KHN13429.1
TRINITY_DN14209_c0_g1::TRINITY_DN14209_c0_g1_i2::g.34018::m.34018	3,41E-96	294	XP_018827296.1	uncharacterized protein LOC108996024	Juglans regia	XP_018807874.1
TRINITY_DN14887_c2_g4::TRINITY_DN14887_c2_g4_i1::g.43866::m.43866	0	525	XP_018808420.1	uridine-cytidine kinase C-like isoform X1	Juglans regia	XP_018808421.1
TRINITY_DN18372_c2_g2::TRINITY_DN18372_c2_g2_i3::g.99514::m.99514	0	694	XP_018845025.1	phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and protein-tyrosine-phosphatase PTEN2A-like	Juglans regia	KOM28908.1
TRINITY_DN16028_c0_g1::TRINITY_DN16028_c0_g1_i7::g.60828::m.60828	0	770	XP_018820165.1	trafficking protein particle complex subunit 13 isoform X1	Juglans regia	XP_018820166.1
TRINITY_DN12857_c0_g1::TRINITY_DN12857_c0_g1_i2::g.16763::m.16763	1,30E-105	318	XP_018852253.1	plastoglobulin-1, chloroplastic-like	Juglans regia	KDP30383.1
TRINITY_DN18741_c1_g1::TRINITY_DN18741_c1_g1_i9::g.105752::m.105752	5,97E-127	366	XP_018845112.1	phosducin-like protein 3	Juglans regia	KDP46320.1
TRINITY_DN18860_c2_g4::TRINITY_DN18860_c2_g4_i2::g.107536::m.107536	2,16E-105	325	XP_018856430.1	uncharacterized protein LOC109018725	Juglans regia	OAY23752.1
TRINITY_DN12789_c1_g2::TRINITY_DN12789_c1_g2_i12::g.15958::m.15958	5,26E-52	169	XP_018850680.1	tropinone reductase homolog At5g06060-like	Juglans regia	XP_018841297.1
TRINITY_DN19136_c0_g1::TRINITY_DN19136_c0_g1_i3::g.112661::m.112661	4,06E-76	228	XP_018831755.1	ubiquitin-conjugating enzyme E2 27	Juglans regia	KDP22561.1
TRINITY_DN16675_c0_g2::TRINITY_DN16675_c0_g2_i3::g.71545::m.71545	0	809	XP_018844867.1	anthranilate synthase alpha subunit 2, chloroplastic-like	Juglans regia	XP_004497238.1
TRINITY_DN19779_c3_g1::TRINITY_DN19779_c3_g1_i9::g.123559::m.123559	2,11E-121	360	XP_018806898.1	lysine--tRNA ligase, cytoplasmic isoform X2	Juglans regia	XP_018806897.1
TRINITY_DN11951_c0_g1::TRINITY_DN11951_c0_g1_i4::g.9610::m.9610	0	830	XP_018848980.1	folylpolyglutamate synthase	Juglans regia	OAY38548.1
TRINITY_DN17944_c2_g2::TRINITY_DN17944_c2_g2_i3::g.92569::m.92569	0	875	XP_018824286.1	SUN domain-containing protein 2	Juglans regia	XP_009358629.1
TRINITY_DN17545_c0_g1::TRINITY_DN17545_c0_g1_i1::g.84935::m.84935	0	1335	XP_018829229.1	glycine--tRNA ligase, mitochondrial 1-like	Juglans regia	XP_018841636.1
TRINITY_DN14785_c0_g1::TRINITY_DN14785_c0_g1_i6::g.42288::m.42288	2,20E-66	211	XP_018810986.1	protein disulfide-isomerase 5-3-like	Juglans regia	KDP39071.1
TRINITY_DN10853_c0_g1::TRINITY_DN10853_c0_g1_i1::g.5658::m.5658	7,18E-76	228	XP_016205608.1	uncharacterized protein LOC107645960	Arachis ipaensis	XP_014495882.1
TRINITY_DN19439_c3_g1::TRINITY_DN19439_c3_g1_i7::g.118339::m.118339	0	546	XP_018858974.1	clathrin interactor EPSIN 2 isoform X2	Juglans regia	XP_018858973.1
TRINITY_DN19401_c0_g3::TRINITY_DN19401_c0_g3_i5::g.116386::m.116386	1,54E-152	435	XP_018845609.1	oligouridylate-binding protein 1B-like	Juglans regia	XP_018845609.1

TRINITY_DN13193_c0_g2::TRINITY_DN13193_c0_g2_i7::g.20882::m.20882	1,62E-157	448	AAD51625.1	AF169022_1 seed maturation protein PM37	Glycine max	KHN21201.1
TRINITY_DN16102_c2_g2::TRINITY_DN16102_c2_g2_i1::g.62195::m.62195	4,96E-69	217	XP_008243362.1	ERBB-3 BINDING PROTEIN 1	Prunus mume	ONI03759.1
TRINITY_DN17099_c3_g2::TRINITY_DN17099_c3_g2_i2::g.76778::m.76778	0	605	XP_018850843.1	apoptotic chromatin condensation inducer in the nucleus-like isoform X3	Juglans regia	XP_018850842.1
TRINITY_DN14038_c1_g1::TRINITY_DN14038_c1_g1_i3::g.31643::m.31643	0	680	XP_008337727.1	eukaryotic initiation factor 4A-11	Malus domestica	XP_018845033.1
TRINITY_DN16298_c0_g1::TRINITY_DN16298_c0_g1_i6::g.65227::m.65227	6,67E-174	484	ONH95000.1	hypothetical protein PRUPE_7G045500	Prunus persica	XP_007202429.1
TRINITY_DN16403_c4_g2::TRINITY_DN16403_c4_g2_i2::g.67059::m.67059	2,50E-68	205	AET62921.1	NADH dehydrogenase subunit 3 (mitochondrion)	Millettia pinnata	YP_005090461.1
TRINITY_DN19748_c4_g1::TRINITY_DN19748_c4_g1_i8::g.123188::m.123188	0	1194	XP_018819079.1	uncharacterized protein LOC108989795 isoform X1	Juglans regia	XP_018819080.1
TRINITY_DN16008_c3_g2::TRINITY_DN16008_c3_g2_i3::g.60431::m.60431	9,33E-49	155	OAY45897.1	hypothetical protein MANES_07G101100	Manihot esculenta	KYP35949.1
TRINITY_DN15365_c0_g2::TRINITY_DN15365_c0_g2_i4::g.50831::m.50831	7,71E-146	414	OAY38567.1	hypothetical protein MANES_10G025000	Manihot esculenta	XP_018857484.1
TRINITY_DN16706_c0_g2::TRINITY_DN16706_c0_g2_i5::g.72057::m.72057	3,57E-145	423	XP_018815234.1	UBP1-associated protein 2B-like	Juglans regia	XP_018815235.1
TRINITY_DN12693_c0_g1::TRINITY_DN12693_c0_g1_i1::g.14939::m.14939	3,52E-49	162	XP_008237914.1	cinnamoyl-CoA reductase 2-like isoform X2	Prunus mume	XP_018859183.1
TRINITY_DN13827_c1_g1::TRINITY_DN13827_c1_g1_i4::g.28842::m.28842	1,21E-84	268	XP_018817970.1	stress protein DDR48	Juglans regia	OAY27720.1
TRINITY_DN11389_c0_g1::TRINITY_DN11389_c0_g1_i1::g.7193::m.7193	0	654	XP_018857199.1	protein RAE1 isoform X1	Juglans regia	XP_018857200.1
TRINITY_DN12755_c3_g1::TRINITY_DN12755_c3_g1_i1::g.16006::m.16006	1,02E-71	236	XP_018807970.1	pollen-specific leucine-rich repeat extensin-like protein 3	Juglans regia	XP_018807970.1
TRINITY_DN13006_c0_g1::TRINITY_DN13006_c0_g1_i3::g.18571::m.18571	1,55E-79	235	XP_018847546.1	40S ribosomal protein S12-like	Juglans regia	XP_018853126.1
TRINITY_DN31964_c0_g1::TRINITY_DN31964_c0_g1_i1::g.130316::m.130316	1,61E-85	258	XP_018824464.1	ervatamin-B-like	Juglans regia	XP_018824181.1
TRINITY_DN10036_c0_g1::TRINITY_DN10036_c0_g1_i2::g.4202::m.4202	1,16E-98	291	XP_018828138.1	uncharacterized protein LOC108996608	Juglans regia	OAY44531.1
TRINITY_DN17508_c5_g2::TRINITY_DN17508_c5_g2_i5::g.85417::m.85417	4,35E-49	166	XP_018824758.1	exopolygalacturonase clone GBGE184-like	Juglans regia	XP_018817991.1
TRINITY_DN19723_c2_g3::TRINITY_DN19723_c2_g3_i8::g.122861::m.122861	8,40E-126	366	XP_018857981.1	phosphomethylethanolamine N-methyltransferase isoform X2	Juglans regia	XP_018857980.1
TRINITY_DN12524_c0_g1::TRINITY_DN12524_c0_g1_i3::g.13484::m.13484	1,02E-175	493	XP_018822923.1	plastid-lipid-associated protein, chloroplastic-like	Juglans regia	ONI09855.1
TRINITY_DN18436_c0_g2::TRINITY_DN18436_c0_g2_i4::g.100110::m.100110	0	880	XP_018815864.1	conserved oligomeric Golgi complex subunit 7	Juglans regia	AIU51136.1
TRINITY_DN12307_c0_g1::TRINITY_DN12307_c0_g1_i3::g.11724::m.11724	0	956	XP_018850957.1	pentatricopeptide repeat-containing protein At1g80270, mitochondrial-like	Juglans regia	OAY40209.1

TRINITY_DN13767_c0_g1::TRINITY_DN13767_c0_g1_i2::g.28089::m.28089	2,66E-50	166	XP_008345965.2	vesicle-fusing ATPase-like	Malus domestica	KDP20974.1
TRINITY_DN19009_c0_g1::TRINITY_DN19009_c0_g1_i8::g.110506::m.110506	1,97E-110	317	XP_008393051.1	ubiquitin-conjugating enzyme E2-23 kDa-like	Malus domestica	XP_008393052.1
TRINITY_DN17898_c0_g1::TRINITY_DN17898_c0_g1_i6::g.91458::m.91458	0	2876	XP_018805563.1	nuclear-pore anchor-like isoform X3	Juglans regia	XP_018805561.1
TRINITY_DN11577_c0_g1::TRINITY_DN11577_c0_g1_i3::g.7931::m.7931	1,81E-76	226	KHN35208.1	40S ribosomal protein S20-2	Glycine soja	KRH27587.1
TRINITY_DN17836_c0_g3::TRINITY_DN17836_c0_g3_i4::g.90474::m.90474	3,42E-51	164	XP_018813688.1	iron-sulfur assembly protein IscA-like 2, mitochondrial isoform X1	Juglans regia	KDP42748.1
TRINITY_DN19582_c3_g2::TRINITY_DN19582_c3_g2_i4::g.120114::m.120114	1,28E-130	378	ONI24902.1	hypothetical protein PRUPE_2G268500	Prunus persica	XP_007218171.1
TRINITY_DN15102_c1_g3::TRINITY_DN15102_c1_g3_i1::g.46949::m.46949	0	659	XP_018860326.1	thiamine thiazole synthase 2, chloroplastic-like	Juglans regia	XP_018820652.1
TRINITY_DN18657_c1_g1::TRINITY_DN18657_c1_g1_i4::g.104087::m.104087	1,94E-143	410	XP_018821666.1	COP9 signalosome complex subunit 4 isoform X2	Juglans regia	XP_018826700.1
TRINITY_DN11984_c0_g1::TRINITY_DN11984_c0_g1_i17::g.9822::m.9822	0	663	XP_018840513.1	ATP-dependent (S)-NAD(P)H-hydrate dehydratase isoform X2	Juglans regia	XP_018840512.1
TRINITY_DN13083_c4_g1::TRINITY_DN13083_c4_g1_i1::g.19609::m.19609	1,29E-140	397	XP_018848377.1	uncharacterized protein LOC109011572 isoform X1	Juglans regia	XP_008238559.1
TRINITY_DN11520_c0_g2::TRINITY_DN11520_c0_g2_i2::g.7719::m.7719	1,66E-135	390	XP_018828701.1	ATPase ASNA1 homolog 2-like	Juglans regia	XP_018828702.1
TRINITY_DN11695_c0_g2::TRINITY_DN11695_c0_g2_i5::g.8192::m.8192	1,15E-152	430	OAY46091.1	hypothetical protein MANES_07G115800	Manihot esculenta	XP_018814522.1
TRINITY_DN17518_c0_g2::TRINITY_DN17518_c0_g2_i4::g.85745::m.85745	5,16E-83	245	XP_020996771.1	SKP1-like protein 1B	Arachis duranensis	XP_018847894.1
TRINITY_DN15614_c2_g1::TRINITY_DN15614_c2_g1_i2::g.54750::m.54750	3,96E-94	280	XP_018858487.1	(+)-neomenthol dehydrogenase-like isoform X1	Juglans regia	XP_018839129.1
TRINITY_DN17279_c2_g2::TRINITY_DN17279_c2_g2_i30::g.80027::m.80027	0	1639	XP_018821562.1	exocyst complex component SEC3A	Juglans regia	ONI32787.1
TRINITY_DN12358_c0_g1::TRINITY_DN12358_c0_g1_i4::g.12129::m.12129	0	795	XP_018841273.1	plant UBX domain-containing protein 7	Juglans regia	OAY25414.1
TRINITY_DN14089_c0_g1::TRINITY_DN14089_c0_g1_i1::g.32223::m.32223	0	693	XP_018825271.1	enoyl-[acyl-carrier-protein reductase [NADH], chloroplastic-like	Juglans regia	XP_018834639.1
TRINITY_DN13617_c1_g1::TRINITY_DN13617_c1_g1_i9::g.26343::m.26343	0	616	XP_018836164.1	protein decapping 5 isoform X2	Juglans regia	XP_018836156.1
TRINITY_DN12509_c0_g1::TRINITY_DN12509_c0_g1_i1::g.13435::m.13435	0	524	XP_018859854.1	phosphoglycerate mutase-like protein 1 isoform X6	Juglans regia	XP_018859855.1
TRINITY_DN20017_c0_g1::TRINITY_DN20017_c0_g1_i1::g.127859::m.127859	3,58E-137	400	XP_018830495.1	pyruvate decarboxylase 1	Juglans regia	OAY26295.1
TRINITY_DN15264_c3_g1::TRINITY_DN15264_c3_g1_i8::g.49356::m.49356	3,31E-83	256	XP_018814264.1	phosphomethylethanolamine N-methyltransferase-like	Juglans regia	XP_018857981.1
TRINITY_DN19396_c1_g2::TRINITY_DN19396_c1_g2_i11::g.116356::m.116356	0	1694	XP_018830041.1	ABC transporter B family member 9 isoform X1	Juglans regia	XP_018830041.1

TRINITY_DN13077_c0_g1::TRINITY_DN13077_c0_g1_i9::g.19580::m.19580	2,57E-127	365	XP_018846540.1	uncharacterized protein LOC109010229 isoform X1	Juglans regia	XP_018846541.1
TRINITY_DN19577_c3_g1::TRINITY_DN19577_c3_g1_i6::g.120109::m.120109	7,51E-91	265	XP_018826455.1	uncharacterized protein LOC108995352	Juglans regia	XP_018829401.1
TRINITY_DN10714_c0_g1::TRINITY_DN10714_c0_g1_i4::g.5392::m.5392	3,35E-38	128	XP_018853464.1	uncharacterized protein LOC109015450	Juglans regia	ONI35449.1
TRINITY_DN13818_c0_g2::TRINITY_DN13818_c0_g2_i15::g.28994::m.28994	0	683	XP_018857848.1	ATP-citrate synthase alpha chain protein 2	Juglans regia	XP_018805227.1
TRINITY_DN18434_c0_g1::TRINITY_DN18434_c0_g1_i17::g.100395::m.100395	5,46E-81	258	XP_008236777.1	phospholipase A-2-activating protein	Prunus mume	XP_007131862.1
TRINITY_DN14145_c0_g4::TRINITY_DN14145_c0_g4_i3::g.33080::m.33080	2,97E-100	298	XP_018858935.1	chaperone protein dnaJ 49-like	Juglans regia	XP_018858936.1
TRINITY_DN14453_c2_g3::TRINITY_DN14453_c2_g3_i2::g.37393::m.37393	7,72E-66	206	KRH01821.1	hypothetical protein GLYMA_18G300500	Glycine max	XP_003552752.1
TRINITY_DN12731_c3_g2::TRINITY_DN12731_c3_g2_i1::g.15534::m.15534	2,55E-34	126	XP_018809534.1	exopolygalacturonase-like	Juglans regia	XP_018825627.1
TRINITY_DN19556_c1_g1::TRINITY_DN19556_c1_g1_i8::g.119918::m.119918	2,05E-80	236	AFK34423.1	unknown	Lotus japonicus	AFK37880.1
TRINITY_DN12315_c0_g1::TRINITY_DN12315_c0_g1_i2::g.11830::m.11830	0	859	XP_018838722.1	splicing factor SF3a60 homolog	Juglans regia	XP_018850767.1
TRINITY_DN14308_c1_g1::TRINITY_DN14308_c1_g1_i5::g.35396::m.35396	1,57E-169	483	XP_018822425.1	polyadenylate-binding protein RBP47-like	Juglans regia	XP_018822425.1
TRINITY_DN15701_c0_g1::TRINITY_DN15701_c0_g1_i7::g.55836::m.55836	0	1057	XP_018831403.1	MAP3K epsilon protein kinase 1-like	Juglans regia	XP_018831405.1
TRINITY_DN11076_c0_g1::TRINITY_DN11076_c0_g1_i2::g.6263::m.6263	0	912	XP_018842528.1	pentatricopeptide repeat-containing protein At4g28010	Juglans regia	XP_018842528.1
TRINITY_DN13289_c1_g1::TRINITY_DN13289_c1_g1_i2::g.22086::m.22086	0	647	XP_018850158.1	protein SAD1/UNC-84 domain protein 1-like	Juglans regia	XP_018842411.1
TRINITY_DN11519_c0_g1::TRINITY_DN11519_c0_g1_i2::g.7693::m.7693	0	1062	XP_018815603.1	ATPase family AAA domain-containing protein 3-like	Juglans regia	OAY57408.1
TRINITY_DN15166_c0_g1::TRINITY_DN15166_c0_g1_i7::g.47733::m.47733	1,13E-137	392	XP_018826641.1	peroxisomal membrane protein 11A	Juglans regia	XP_018826642.1
TRINITY_DN15517_c0_g1::TRINITY_DN15517_c0_g1_i10::g.53139::m.53139	0	1569	XP_018809437.1	golgin candidate 6 isoform X2	Juglans regia	XP_018809435.1
TRINITY_DN15729_c0_g1::TRINITY_DN15729_c0_g1_i9::g.56378::m.56378	4,14E-139	400	XP_018825366.1	SNF1-related protein kinase regulatory subunit gamma-1	Juglans regia	XP_008239461.1
TRINITY_DN15900_c2_g1::TRINITY_DN15900_c2_g1_i1::g.57240::m.57240	0	1379	XP_018818626.1	acylamino-acid-releasing enzyme isoform X2	Juglans regia	XP_018818625.1
TRINITY_DN13702_c0_g1::TRINITY_DN13702_c0_g1_i4::g.27394::m.27394	1,44E-47	152	XP_008373046.1	histone deacetylase 6	Malus domestica	XP_008356371.1
TRINITY_DN17271_c3_g3::TRINITY_DN17271_c3_g3_i8::g.81059::m.81059	3,94E-72	219	XP_018843992.1	vacuolar protein sorting-associated protein 32 homolog 2	Juglans regia	XP_018846598.1
TRINITY_DN17089_c1_g2::TRINITY_DN17089_c1_g2_i5::g.78211::m.78211	0	880	XP_018851837.1	outer envelope protein 61	Juglans regia	ONI01600.1

TRINITY_DN17386_c2_g1::TRINITY_DN17386_c2_g1_i2::g.82885::m.82885	0	1059	XP_018816335.1	LOW QUALITY PROTEIN: cation/H(+) antiporter 14-like	Juglans regia	ONH99745.1
TRINITY_DN13961_c0_g1::TRINITY_DN13961_c0_g1_i2::g.30621::m.30621	0	683	XP_018835559.1	ATP phosphoribosyltransferase 2, chloroplastic isoform X1	Juglans regia	OAY44990.1
TRINITY_DN13778_c1_g3::TRINITY_DN13778_c1_g3_i1::g.28124::m.28124	0	855	XP_018817409.1	ruvB-like 2	Juglans regia	KRH46465.1
TRINITY_DN13512_c0_g1::TRINITY_DN13512_c0_g1_i2::g.24707::m.24707	2,62E-54	172	XP_018827511.1	uncharacterized protein LOC108996194	Juglans regia	XP_018827510.1
TRINITY_DN19318_c3_g1::TRINITY_DN19318_c3_g1_i7::g.115859::m.115859	6,32E-93	274	XP_018819521.1	yrdC domain-containing protein, mitochondrial isoform X4	Juglans regia	XP_018819522.1
TRINITY_DN17993_c0_g1::TRINITY_DN17993_c0_g1_i2::g.93217::m.93217	0	568	XP_018841527.1	heterodimeric geranylgeranyl pyrophosphate synthase small subunit, chloroplastic-like	Juglans regia	XP_018853159.1
TRINITY_DN19049_c0_g1::TRINITY_DN19049_c0_g1_i9::g.110547::m.110547	0	592	XP_018815364.1	SH3 domain-containing protein 2-like	Juglans regia	XP_018841364.1
TRINITY_DN12375_c3_g1::TRINITY_DN12375_c3_g1_i9::g.12353::m.12353	0	973	XP_018826576.1	probable methyltransferase PMT2	Juglans regia	OAY31024.1
TRINITY_DN18998_c2_g1::TRINITY_DN18998_c2_g1_i7::g.108559::m.108559	0	1970	XP_018818695.1	uncharacterized protein LOC108989521 isoform X1	Juglans regia	XP_018818696.1
TRINITY_DN18521_c6_g4::TRINITY_DN18521_c6_g4_i1::g.101901::m.101901	6,35E-62	191	XP_018843076.1	calvin cycle protein CP12-3, chloroplastic	Juglans regia	OAY50363.1
TRINITY_DN17805_c0_g1::TRINITY_DN17805_c0_g1_i5::g.89980::m.89980	3,11E-91	266	OIW00325.1	hypothetical protein TanjilG_27576	Lupinus angustifolius	XP_019462763.1
TRINITY_DN19377_c2_g2::TRINITY_DN19377_c2_g2_i2::g.116852::m.116852	9,90E-100	299	XP_018823596.1	TPR repeat-containing thioredoxin TDX	Juglans regia	ONI09381.1
TRINITY_DN19873_c6_g5::TRINITY_DN19873_c6_g5_i6::g.124897::m.124897	2,05E-107	324	KRH23403.1	hypothetical protein GLYMA_13G354900	Glycine max	XP_018839142.1
TRINITY_DN16513_c0_g2::TRINITY_DN16513_c0_g2_i7::g.68926::m.68926	0	662	XP_018818176.1	bifunctional riboflavin kinase/FMN phosphatase isoform X1	Juglans regia	XP_018818177.1
TRINITY_DN12856_c0_g1::TRINITY_DN12856_c0_g1_i4::g.16613::m.16613	5,23E-109	336	XP_018827682.1	uncharacterized protein LOC108996311	Juglans regia	XP_016175320.1
TRINITY_DN8001_c0_g1::TRINITY_DN8001_c0_g1_i1::g.2441::m.2441	0	624	XP_018856560.1	2-alkenal reductase (NADP(+)-dependent)-like	Juglans regia	XP_018829693.1
TRINITY_DN16768_c1_g1::TRINITY_DN16768_c1_g1_i8::g.72998::m.72998	0	1284	XP_018850254.1	pyrophosphate-energized membrane proton pump 3 isoform X1	Juglans regia	XP_018850256.1
TRINITY_DN15627_c0_g1::TRINITY_DN15627_c0_g1_i7::g.54594::m.54594	6,85E-171	479	XP_018805589.1	cinnamoyl-CoA reductase 2	Juglans regia	XP_018805590.1
TRINITY_DN17680_c4_g1::TRINITY_DN17680_c4_g1_i22::g.88254::m.88254	0	847	XP_018836626.1	putative clathrin assembly protein At5g57200 isoform X1	Juglans regia	XP_018836627.1
TRINITY_DN19193_c1_g1::TRINITY_DN19193_c1_g1_i1::g.113618::m.113618	1,70E-47	160	XP_018818624.1	3-hydroxyisobutyryl-CoA hydrolase 1-like	Juglans regia	OAY38989.1
TRINITY_DN13047_c0_g2::TRINITY_DN13047_c0_g2_i4::g.19117::m.19117	0	644	XP_007212263.1	aspartate carbamoyltransferase, chloroplastic	Prunus persica	XP_020417020.1
TRINITY_DN16413_c0_g1::TRINITY_DN16413_c0_g1_i2::g.67167::m.67167	2,41E-120	350	XP_018844572.1	uncharacterized protein LOC109008795	Juglans regia	KYP50055.1

TRINITY_DN16171_c0_g1::TRINITY_DN16171_c0_g1_i2::g.63190::m.63190	0	791	XP_018859392.1	acyl-lipid (9-3)-desaturase-like	Juglans regia	ABP01349.1
TRINITY_DN19552_c1_g2::TRINITY_DN19552_c1_g2_i2::g.119657::m.119657	2,19E-171	486	XP_018838516.1	long chain base biosynthesis protein 1	Juglans regia	XP_018838517.1
TRINITY_DN15066_c0_g1::TRINITY_DN15066_c0_g1_i4::g.46431::m.46431	0	845	XP_018822081.1	uridine kinase-like protein 1, chloroplastic	Juglans regia	XP_008231136.1
TRINITY_DN17996_c1_g1::TRINITY_DN17996_c1_g1_i2::g.93353::m.93353	3,73E-95	284	XP_018815856.1	hypersensitive-induced response protein 4	Juglans regia	XP_018815856.1
TRINITY_DN19241_c0_g1::TRINITY_DN19241_c0_g1_i6::g.115140::m.115140	1,03E-17	78,2	OAY36830.1	hypothetical protein MANES_11G052200	Manihot esculenta	XP_014620654.1
TRINITY_DN18797_c1_g2::TRINITY_DN18797_c1_g2_i1::g.106436::m.106436	1,94E-60	190	ONH91725.1	hypothetical protein PRUPE_8G133400	Prunus persica	XP_007201309.1
TRINITY_DN10621_c0_g1::TRINITY_DN10621_c0_g1_i2::g.5142::m.5142	8,80E-120	342	XP_018826580.1	uncharacterized endoplasmic reticulum membrane protein YGL010W-like	Juglans regia	ONI08705.1
TRINITY_DN18450_c3_g3::TRINITY_DN18450_c3_g3_i7::g.100614::m.100614	0	565	XP_018810529.1	auxilin-related protein 2-like	Juglans regia	XP_018810529.1
TRINITY_DN12897_c1_g1::TRINITY_DN12897_c1_g1_i8::g.17082::m.17082	1,91E-172	482	XP_018827762.1	TIP41-like protein	Juglans regia	XP_018809405.1
TRINITY_DN15693_c4_g1::TRINITY_DN15693_c4_g1_i3::g.55852::m.55852	0	521	XP_018852058.1	ABC transporter I family member 6, chloroplastic-like	Juglans regia	XP_018852059.1
TRINITY_DN13826_c0_g2::TRINITY_DN13826_c0_g2_i4::g.28934::m.28934	2,11E-63	206	XP_018826436.1	U1 small nuclear ribonucleoprotein 70 kDa-like	Juglans regia	XP_018829413.1
TRINITY_DN11412_c0_g1::TRINITY_DN11412_c0_g1_i1::g.7292::m.7292	0	660	XP_018821557.1	glyoxylate/succinic semialdehyde reductase 2, chloroplastic	Juglans regia	XP_008228276.1
TRINITY_DN11674_c0_g1::TRINITY_DN11674_c0_g1_i3::g.8359::m.8359	5,62E-134	378	XP_018810148.1	ras-related protein RABC2a-like isoform X1	Juglans regia	XP_018848039.1
TRINITY_DN17979_c4_g2::TRINITY_DN17979_c4_g2_i7::g.93178::m.93178	0	909	XP_018831141.1	NADPH--cytochrome P450 reductase-like	Juglans regia	XP_018820842.1
TRINITY_DN18736_c0_g1::TRINITY_DN18736_c0_g1_i7::g.105711::m.105711	0	1938	XP_018822938.1	exocyst complex component SEC8-like	Juglans regia	XP_018822939.1
TRINITY_DN13606_c2_g3::TRINITY_DN13606_c2_g3_i2::g.26267::m.26267	0	1394	XP_018857657.1	exocyst complex component SEC15A-like	Juglans regia	XP_018857659.1
TRINITY_DN13348_c4_g1::TRINITY_DN13348_c4_g1_i6::g.22618::m.22618	2,95E-146	414	OAY42657.1	hypothetical protein MANES_08G005400	Manihot esculenta	XP_016207932.1
TRINITY_DN17345_c4_g3::TRINITY_DN17345_c4_g3_i2::g.81576::m.81576	1,56E-73	222	XP_018853705.1	Golgi SNAP receptor complex member 1-2	Juglans regia	OAY62436.1
TRINITY_DN11662_c0_g1::TRINITY_DN11662_c0_g1_i1::g.8281::m.8281	5,82E-121	343	XP_018818270.1	peptidyl-prolyl cis-trans isomerase CYP22	Juglans regia	OAY53361.1
TRINITY_DN15060_c1_g1::TRINITY_DN15060_c1_g1_i6::g.46413::m.46413	0	990	XP_018851735.1	E3 ubiquitin-protein ligase KEG-like	Juglans regia	XP_018851736.1
TRINITY_DN15046_c3_g2::TRINITY_DN15046_c3_g2_i6::g.45963::m.45963	2,39E-67	209	XP_018854585.1	tRNA wybutosine-synthesizing protein 4	Juglans regia	KDP28857.1
TRINITY_DN17213_c1_g3::TRINITY_DN17213_c1_g3_i3::g.80204::m.80204	0	892	XP_018849388.1	dol-P-Man:Man(6)GlcNAc(2)-PP-Dol alpha-1,2-mannosyltransferase	Juglans regia	KDP32537.1

TRINITY_DN18186_c3_g1::TRINITY_DN18186_c3_g1_i8::g.96539::m.96539	0	1712	XP_018816812.1	transportin MOS14 isoform X1	Juglans regia	XP_018816813.1
TRINITY_DN19210_c1_g1::TRINITY_DN19210_c1_g1_i13::g.114068::m.114068	0	1599	XP_018821055.1	exocyst complex component SEC5A-like	Juglans regia	XP_009361420.1
TRINITY_DN17483_c0_g1::TRINITY_DN17483_c0_g1_i3::g.84425::m.84425	0	2270	XP_018833087.1	proteasome-associated protein ECM29 homolog	Juglans regia	ONI14235.1
TRINITY_DN13893_c0_g2::TRINITY_DN13893_c0_g2_i1::g.30000::m.30000	9,70E-177	496	XP_018849256.1	sorting nexin 1-like isoform X1	Juglans regia	XP_018849257.1
TRINITY_DN19502_c1_g3::TRINITY_DN19502_c1_g3_i5::g.118942::m.118942	0	2339	XP_018834616.1	callose synthase 9	Juglans regia	XP_018834617.1
TRINITY_DN13503_c0_g1::TRINITY_DN13503_c0_g1_i7::g.24647::m.24647	3,11E-130	375	XP_018827313.1	renalase isoform X2	Juglans regia	XP_018827334.1
TRINITY_DN20983_c0_g1::TRINITY_DN20983_c0_g1_i1::g.128678::m.128678	0	530	XP_018824706.1	pentatricopeptide repeat-containing protein At3g49240	Juglans regia	XP_018824706.1
TRINITY_DN15427_c0_g1::TRINITY_DN15427_c0_g1_i2::g.51743::m.51743	0	727	XP_018815673.1	golgin candidate 1-like isoform X2	Juglans regia	XP_018815674.1
TRINITY_DN19611_c0_g2::TRINITY_DN19611_c0_g2_i9::g.121074::m.121074	0	613	XP_018849912.1	heterogeneous nuclear ribonucleoprotein 1 isoform X3	Juglans regia	XP_018849904.1
TRINITY_DN17613_c0_g1::TRINITY_DN17613_c0_g1_i11::g.87113::m.87113	0	1254	XP_018805408.1	ATP-dependent zinc metalloprotease FTSH 9, chloroplastic-like	Juglans regia	XP_018842944.1
TRINITY_DN19888_c1_g1::TRINITY_DN19888_c1_g1_i5::g.125265::m.125265	6,57E-149	427	XP_018811673.1	polypyrimidine tract-binding protein homolog 3	Juglans regia	XP_018811674.1
TRINITY_DN17142_c1_g1::TRINITY_DN17142_c1_g1_i7::g.79281::m.79281	7,23E-102	301	XP_018819539.1	uncharacterized protein LOC108990124 isoform X2	Juglans regia	XP_018819538.1
TRINITY_DN14016_c0_g1::TRINITY_DN14016_c0_g1_i9::g.31308::m.31308	2,17E-63	201	XP_018814804.1	protein phosphatase 1 regulatory subunit pprA	Juglans regia	XP_018814804.1
TRINITY_DN15297_c0_g1::TRINITY_DN15297_c0_g1_i10::g.49743::m.49743	0	604	XP_018842133.1	fructose-1,6-bisphosphatase, cytosolic	Juglans regia	XP_018842134.1
TRINITY_DN18857_c0_g1::TRINITY_DN18857_c0_g1_i9::g.107487::m.107487	2,56E-142	408	XP_018835872.1	SEC12-like protein 2	Juglans regia	XP_018835880.1
TRINITY_DN14669_c0_g2::TRINITY_DN14669_c0_g2_i2::g.40246::m.40246	0	1158	XP_018822356.1	uncharacterized protein LOC108992291 isoform X1	Juglans regia	XP_018822358.1
TRINITY_DN11011_c0_g1::TRINITY_DN11011_c0_g1_i3::g.6100::m.6100	0	1773	XP_018818368.1	exportin-2 isoform X1	Juglans regia	XP_018818369.1
TRINITY_DN13798_c2_g3::TRINITY_DN13798_c2_g3_i1::g.28387::m.28387	1,70E-90	266	XP_018829803.1	uncharacterized protein LOC108997870	Juglans regia	XP_008218429.1
TRINITY_DN13146_c0_g1::TRINITY_DN13146_c0_g1_i3::g.20394::m.20394	4,53E-59	188	XP_018835416.1	uncharacterized protein LOC109002223	Juglans regia	XP_018835424.1
TRINITY_DN16700_c3_g5::TRINITY_DN16700_c3_g5_i2::g.71826::m.71826	6,34E-87	263	XP_018833107.1	feruloyl CoA ortho-hydroxylase 1-like	Juglans regia	XP_018833023.1
TRINITY_DN17427_c0_g1::TRINITY_DN17427_c0_g1_i3::g.83624::m.83624	0	671	XP_018852048.1	uncharacterized protein LOC109014152 isoform X1	Juglans regia	XP_018852049.1
TRINITY_DN15169_c1_g1::TRINITY_DN15169_c1_g1_i14::g.47860::m.47860	6,47E-136	397	OAY48824.1	hypothetical protein MANES_05G008200	Manihot esculenta	OIV91038.1

TRINITY_DN13150_c1_g1::TRINITY_DN13150_c1_g1_i6::g.20550::m.20550	1,55E-61	195	XP_018851019.1	glycine-rich RNA-binding protein RZ1A-like	Juglans regia	KDP37561.1
TRINITY_DN19251_c1_g2::TRINITY_DN19251_c1_g2_i17::g.114967::m.114967	2,40E-71	224	XP_018851523.1	mitogen-activated protein kinase 9-like isoform X1	Juglans regia	XP_018851524.1
TRINITY_DN19006_c2_g1::TRINITY_DN19006_c2_g1_i11::g.110719::m.110719	1,58E-138	407	XP_018847843.1	proline-rich receptor-like protein kinase PERK7	Juglans regia	XP_018847844.1
TRINITY_DN18900_c0_g1::TRINITY_DN18900_c0_g1_i6::g.107340::m.107340	0	558	XP_018836395.1	uncharacterized protein LOC109002925 isoform X1	Juglans regia	XP_007222499.2
TRINITY_DN15100_c0_g1::TRINITY_DN15100_c0_g1_i1::g.45506::m.45506	0	533	XP_018833509.1	uncharacterized protein LOC109000915 isoform X1	Juglans regia	ONI24868.1
TRINITY_DN11216_c0_g1::TRINITY_DN11216_c0_g1_i3::g.6674::m.6674	0	1003	XP_018831623.1	beta-glucosidase-like SFR2, chloroplastic isoform X2	Juglans regia	XP_018831622.1
TRINITY_DN19951_c3_g1::TRINITY_DN19951_c3_g1_i8::g.125811::m.125811	9,43E-160	451	XP_018826881.1	soluble inorganic pyrophosphatase 6, chloroplastic-like	Juglans regia	XP_004485644.1
TRINITY_DN13542_c0_g1::TRINITY_DN13542_c0_g1_i7::g.24740::m.24740	0	570	XP_018817784.1	ubiquitin carboxyl-terminal hydrolase 2-like	Juglans regia	XP_018838029.1
TRINITY_DN13852_c0_g1::TRINITY_DN13852_c0_g1_i7::g.28442::m.28442	0	577	XP_009377023.1	FAD synthase-like	Pyrus x bretschneideri	XP_009377024.1
TRINITY_DN16578_c2_g1::TRINITY_DN16578_c2_g1_i1::g.69884::m.69884	0	1560	XP_018825470.1	nuclear cap-binding protein subunit 1	Juglans regia	XP_008227217.1
TRINITY_DN18180_c0_g1::TRINITY_DN18180_c0_g1_i6::g.96457::m.96457	0	1917	XP_018828508.1	E3 ubiquitin-protein ligase listerin	Juglans regia	XP_018828509.1
TRINITY_DN16164_c3_g2::TRINITY_DN16164_c3_g2_i1::g.62975::m.62975	2,57E-104	305	XP_018845967.1	REF/SRPP-like protein At1g67360 isoform X2	Juglans regia	XP_018806821.1
TRINITY_DN14862_c0_g2::TRINITY_DN14862_c0_g2_i3::g.43396::m.43396	2,20E-82	255	ONI25929.1	hypothetical protein PRUPE_2G327500	Prunus persica	XP_020413087.1
TRINITY_DN12438_c0_g1::TRINITY_DN12438_c0_g1_i11::g.12896::m.12896	3,50E-161	462	XP_018821455.1	poly(U)-specific endoribonuclease-B-like isoform X1	Juglans regia	XP_018821456.1
TRINITY_DN11935_c0_g1::TRINITY_DN11935_c0_g1_i2::g.9568::m.9568	0	825	XP_018817346.1	dihydroorotate dehydrogenase (quinone), mitochondrial isoform X1	Juglans regia	XP_018817347.1
TRINITY_DN17228_c0_g1::TRINITY_DN17228_c0_g1_i3::g.80433::m.80433	3,22E-75	226	XP_018853627.1	60S ribosomal protein L24-like	Juglans regia	XP_018811954.1
TRINITY_DN14948_c0_g1::TRINITY_DN14948_c0_g1_i2::g.43967::m.43967	0	827	XP_018836286.1	protein trichome birefringence-like 16	Juglans regia	XP_018836287.1
TRINITY_DN17507_c1_g2::TRINITY_DN17507_c1_g2_i9::g.85053::m.85053	0	998	XP_018812888.1	putative ATPase N2B isoform X1	Juglans regia	XP_018812889.1
TRINITY_DN14555_c5_g1::TRINITY_DN14555_c5_g1_i2::g.38904::m.38904	2,01E-75	229	KYP53704.1	Tetratricopeptide repeat protein 1	Cajanus cajan	XP_020229034.1
TRINITY_DN15250_c0_g1::TRINITY_DN15250_c0_g1_i1::g.49205::m.49205	0	528	XP_018826883.1	beta-ureidopropionase-like	Juglans regia	ONH90705.1
TRINITY_DN14880_c2_g1::TRINITY_DN14880_c2_g1_i5::g.43756::m.43756	1,20E-89	275	XP_018848045.1	acyl-CoA-binding domain-containing protein 4	Juglans regia	XP_018848046.1
TRINITY_DN17189_c3_g1::TRINITY_DN17189_c3_g1_i6::g.79844::m.79844	2,50E-99	296	OAY39563.1	hypothetical protein MANES_10G104500	Manihot esculenta	KDP40925.1

TRINITY_DN15404_c3_g2::TRINITY_DN15404_c3_g2_i3::g.51327::m.51327	7,96E-175	496	XP_018841021.1	nudix hydrolase 19, chloroplastic isoform X2	Juglans regia	XP_018841020.1
TRINITY_DN18753_c1_g3::TRINITY_DN18753_c1_g3_i14::g.106335::m.106335	0	1038	XP_018856581.1	carotenoid 9,10(9',10')-cleavage dioxygenase 1	Juglans regia	ONI20422.1
TRINITY_DN19089_c3_g2::TRINITY_DN19089_c3_g2_i5::g.111660::m.111660	0	703	XP_018852211.1	26S proteasome non-ATPase regulatory subunit 13 homolog A	Juglans regia	XP_018852212.1
TRINITY_DN18930_c0_g5::TRINITY_DN18930_c0_g5_i4::g.109035::m.109035	2,27E-125	371	XP_018810643.1	cytochrome P450 71D9-like	Juglans regia	XP_018810634.1
TRINITY_DN19063_c1_g2::TRINITY_DN19063_c1_g2_i13::g.111218::m.111218	0	595	XP_018858396.1	uncharacterized protein LOC109020402 isoform X1	Juglans regia	XP_018806239.1
TRINITY_DN13381_c2_g1::TRINITY_DN13381_c2_g1_i4::g.23007::m.23007	4,18E-155	432	OAY25631.1	hypothetical protein MANES_17G110100	Manihot esculenta	XP_018845779.1
TRINITY_DN15027_c0_g1::TRINITY_DN15027_c0_g1_i5::g.45870::m.45870	0	768	XP_018843544.1	geranylgeranyl transferase type-2 subunit alpha 1	Juglans regia	XP_008219243.1
TRINITY_DN17756_c1_g1::TRINITY_DN17756_c1_g1_i7::g.89229::m.89229	0	1026	XP_018857193.1	cell division cycle and apoptosis regulator protein 1 isoform X2	Juglans regia	XP_018857193.1
TRINITY_DN15011_c4_g2::TRINITY_DN15011_c4_g2_i4::g.45809::m.45809	9,78E-123	357	XP_018818639.1	serine/threonine-protein kinase STY17-like	Juglans regia	XP_008351239.1
TRINITY_DN12829_c0_g1::TRINITY_DN12829_c0_g1_i5::g.16229::m.16229	1,64E-84	256	XP_018850153.1	reticulon-4-interacting protein 1, mitochondrial-like isoform X1	Juglans regia	XP_018822796.1
TRINITY_DN19522_c5_g1::TRINITY_DN19522_c5_g1_i5::g.119202::m.119202	3,05E-133	381	XP_009344569.2	bifunctional nitrilase/nitrile hydratase NIT4A-like	Pyrus x bretschneideri	XP_008361132.1
TRINITY_DN19133_c0_g1::TRINITY_DN19133_c0_g1_i8::g.112559::m.112559	3,59E-101	298	XP_018845249.1	agamous-like MADS-box protein AGL30 isoform X5	Juglans regia	XP_018845245.1
TRINITY_DN19814_c1_g3::TRINITY_DN19814_c1_g3_i2::g.124100::m.124100	1,51E-95	289	XP_008352742.2	LOW QUALITY PROTEIN: phosphoenolpyruvate carboxykinase [ATP-like]	Malus domestica	XP_008352742.2
TRINITY_DN32151_c0_g1::TRINITY_DN32151_c0_g1_i1::g.130343::m.130343						
TRINITY_DN12363_c0_g1::TRINITY_DN12363_c0_g1_i2::g.12162::m.12162	0	1007	XP_018850129.1	4-alpha-glucanotransferase, chloroplastic/amyloplastic	Juglans regia	XP_008232738.1
TRINITY_DN18083_c3_g1::TRINITY_DN18083_c3_g1_i4::g.94853::m.94853	0	521	XP_018814713.1	ATP-dependent Clp protease proteolytic subunit-related protein 4, chloroplastic-like	Juglans regia	XP_018821438.1
TRINITY_DN15012_c0_g1::TRINITY_DN15012_c0_g1_i2::g.45660::m.45660	9,76E-171	480	XP_018835247.1	uncharacterized protein YMR315W	Juglans regia	KDP20201.1
TRINITY_DN18820_c2_g1::TRINITY_DN18820_c2_g1_i7::g.106999::m.106999	0	594	XP_018848045.1	acyl-CoA-binding domain-containing protein 4	Juglans regia	XP_018848046.1
TRINITY_DN15977_c4_g2::TRINITY_DN15977_c4_g2_i4::g.59843::m.59843	5,54E-105	302	XP_018818738.1	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 3-like	Juglans regia	XP_009363132.1
TRINITY_DN19301_c0_g1::TRINITY_DN19301_c0_g1_i6::g.115549::m.115549	1,99E-69	218	XP_018847165.1	CRIB domain-containing protein RIC7	Juglans regia	XP_012569758.1
TRINITY_DN16119_c4_g3::TRINITY_DN16119_c4_g3_i2::g.62577::m.62577	1,06E-124	356	XP_008360906.1	uncharacterized protein LOC103424589	Malus domestica	XP_018858950.1
TRINITY_DN14879_c3_g1::TRINITY_DN14879_c3_g1_i2::g.43728::m.43728	0	959	XP_018824811.1	importin subunit alpha-like isoform X1	Juglans regia	XP_018824812.1

TRINITY_DN18658_c0_g1::TRINITY_DN18658_c0_g1_i8::g.104114::m.104114	0	610	XP_018814981.1	manganese-dependent ADP-ribose/CDP-alcohol diphosphatase	Juglans regia	XP_018814982.1
TRINITY_DN17925_c2_g1::TRINITY_DN17925_c2_g1_i5::g.91985::m.91985	1,54E-82	245	XP_018821657.1	outer envelope pore protein 24, chloroplastic	Juglans regia	OAY22817.1
TRINITY_DN16773_c1_g1::TRINITY_DN16773_c1_g1_i5::g.73048::m.73048	0	548	XP_008225596.1	ADP-ribosylation factor GTPase-activating protein AGD12-like	Prunus mume	XP_016648708.1
TRINITY_DN13102_c0_g1::TRINITY_DN13102_c0_g1_i5::g.19880::m.19880	0	754	XP_018813877.1	plant intracellular Ras-group-related LRR protein 9-like	Juglans regia	XP_018808183.1
TRINITY_DN15656_c0_g5::TRINITY_DN15656_c0_g5_i2::g.55149::m.55149	0	673	XP_018812277.1	cell division protein FtsZ homolog 1, chloroplastic-like isoform X1	Juglans regia	XP_018824764.1
TRINITY_DN15008_c0_g2::TRINITY_DN15008_c0_g2_i1::g.45732::m.45732	0	1860	XP_018817247.1	calcium-transporting ATPase 1, endoplasmic reticulum-type-like	Juglans regia	XP_018818320.1
TRINITY_DN18231_c0_g2::TRINITY_DN18231_c0_g2_i7::g.97309::m.97309	0	3332	XP_018853999.1	CCR4-NOT transcription complex subunit 1-like isoform X1	Juglans regia	XP_018854006.1
TRINITY_DN17061_c4_g1::TRINITY_DN17061_c4_g1_i15::g.77796::m.77796	1,80E-104	303	XP_018833575.1	uncharacterized protein LOC109000956 isoform X1	Juglans regia	XP_008380623.1
TRINITY_DN17769_c1_g1::TRINITY_DN17769_c1_g1_i4::g.89348::m.89348						
TRINITY_DN17821_c0_g1::TRINITY_DN17821_c0_g1_i3::g.91084::m.91084	1,62E-63	201	XP_019417486.1	CLP protease regulatory subunit CLPX1, mitochondrial isoform X2	Lupinus angustifolius	XP_004502652.1
TRINITY_DN19568_c0_g1::TRINITY_DN19568_c0_g1_i11::g.119880::m.119880	0	1519	XP_018828527.1	nardilysin-like	Juglans regia	XP_008241920.1
TRINITY_DN16019_c1_g2::TRINITY_DN16019_c1_g2_i3::g.60717::m.60717	2,53E-77	235	XP_018852770.1	CRAL-TRIO domain-containing protein C3H8.02-like isoform X1	Juglans regia	XP_018852771.1
TRINITY_DN13205_c0_g1::TRINITY_DN13205_c0_g1_i3::g.21053::m.21053	1,12E-54	177	XP_018835591.1	2-hydroxyisoflavanone dehydratase-like	Juglans regia	XP_018835592.1
TRINITY_DN13561_c3_g1::TRINITY_DN13561_c3_g1_i11::g.25972::m.25972	0	886	XP_018858585.1	tyrosine decarboxylase 1-like isoform X2	Juglans regia	XP_018858584.1
TRINITY_DN16924_c1_g1::TRINITY_DN16924_c1_g1_i1::g.75666::m.75666	3,71E-180	501	XP_012089070.1	protein YIPF1 homolog	Jatropha curcas	OAY42270.1
TRINITY_DN10291_c0_g2::TRINITY_DN10291_c0_g2_i1::g.4575::m.4575	1,59E-73	226	XP_018807754.1	superoxide dismutase [Fe], chloroplastic-like isoform X1	Juglans regia	XP_018807755.1
TRINITY_DN14186_c0_g1::TRINITY_DN14186_c0_g1_i2::g.33325::m.33325	1,28E-132	381	XP_018842628.1	ribose-phosphate pyrophosphokinase 1, chloroplastic-like isoform X3	Juglans regia	XP_018842627.1
TRINITY_DN17451_c1_g1::TRINITY_DN17451_c1_g1_i3::g.84062::m.84062	3,05E-87	275	XP_018818209.1	uncharacterized protein LOC108989149	Juglans regia	XP_018840454.1
TRINITY_DN16642_c3_g1::TRINITY_DN16642_c3_g1_i8::g.71010::m.71010	2,29E-60	197	OAY48824.1	hypothetical protein MANES_05G008200	Manihot esculenta	OIV91038.1
TRINITY_DN18772_c0_g1::TRINITY_DN18772_c0_g1_i5::g.106264::m.106264	0	1103	XP_018814927.1	phenylalanine--tRNA ligase beta subunit, cytoplasmic-like	Juglans regia	XP_018806301.1
TRINITY_DN12837_c2_g1::TRINITY_DN12837_c2_g1_i5::g.16578::m.16578	6,68E-56	184	XP_018847358.1	probable polygalacturonase	Juglans regia	XP_018809647.1
TRINITY_DN14047_c1_g1::TRINITY_DN14047_c1_g1_i4::g.31668::m.31668	9,28E-147	417	XP_018839416.1	perakine reductase-like	Juglans regia	XP_018818666.1

TRINITY_DN19086_c1_g1::TRINITY_DN19086_c1_g1_i6::g.111724::m.111724	7,45E-75	227	XP_008363998.1	EH domain-containing protein 1-like	Malus domestica	XP_009334157.1
TRINITY_DN14258_c0_g5::TRINITY_DN14258_c0_g5_i3::g.34521::m.34521	0	1019	XP_018856587.1	LETM1 and EF-hand domain-containing protein 1, mitochondrial-like isoform X1	Juglans regia	XP_018856593.1
TRINITY_DN17031_c2_g2::TRINITY_DN17031_c2_g2_i1::g.77290::m.77290	1,02E-140	395	XP_018833476.1	VAMP-like protein YKT61	Juglans regia	XP_018850344.1
TRINITY_DN12955_c2_g1::TRINITY_DN12955_c2_g1_i5::g.17882::m.17882	0	1433	XP_018832818.1	general negative regulator of transcription subunit 3 isoform X2	Juglans regia	XP_018832816.1
TRINITY_DN14036_c4_g1::TRINITY_DN14036_c4_g1_i2::g.31377::m.31377	2,38E-82	245	XP_018842727.1	protein BOLA4, chloroplastic/mitochondrial-like	Juglans regia	XP_018828128.1
TRINITY_DN12399_c0_g1::TRINITY_DN12399_c0_g1_i1::g.12011::m.12011	0	664	XP_018833157.1	serine carboxypeptidase-like 51	Juglans regia	XP_018833716.1
TRINITY_DN15460_c0_g1::TRINITY_DN15460_c0_g1_i9::g.52319::m.52319	1,93E-144	412	XP_018807734.1	probable proteasome inhibitor isoform X1	Juglans regia	XP_008240153.1
TRINITY_DN16066_c2_g3::TRINITY_DN16066_c2_g3_i1::g.61892::m.61892	1,85E-30	111	GAU19610.1	hypothetical protein TSUD_383050	Trifolium subterraneum	XP_018831010.1
TRINITY_DN15513_c2_g2::TRINITY_DN15513_c2_g2_i3::g.53087::m.53087	0	625	ONH96192.1	hypothetical protein PRUPE_7G112400	Prunus persica	XP_007204364.1
TRINITY_DN11403_c0_g1::TRINITY_DN11403_c0_g1_i1::g.7256::m.7256	1,83E-164	469	OAY24624.1	hypothetical protein MANES_17G030600	Manihot esculenta	XP_008224890.1
TRINITY_DN12993_c1_g5::TRINITY_DN12993_c1_g5_i1::g.18384::m.18384	0	865	XP_018818643.1	ATP sulfurylase 1, chloroplastic-like	Juglans regia	XP_018839429.1
TRINITY_DN14376_c2_g2::TRINITY_DN14376_c2_g2_i8::g.36166::m.36166	0	516	XP_018835931.1	hypersensitive-induced response protein 2-like	Juglans regia	XP_018835932.1
TRINITY_DN14670_c0_g1::TRINITY_DN14670_c0_g1_i1::g.40393::m.40393	1,02E-65	203	XP_018806103.1	12-oxophytodienoate reductase 1-like, partial	Juglans regia	ONI35666.1
TRINITY_DN19844_c1_g2::TRINITY_DN19844_c1_g2_i1::g.124447::m.124447	1,38E-150	442	XP_018849698.1	glutamine--tRNA ligase-like	Juglans regia	XP_018849699.1
TRINITY_DN19441_c2_g1::TRINITY_DN19441_c2_g1_i3::g.118113::m.118113	0	951	XP_018824493.1	uncharacterized protein LOC108993891	Juglans regia	ONI13349.1
TRINITY_DN19418_c2_g1::TRINITY_DN19418_c2_g1_i2::g.117511::m.117511	0	1656	XP_018857825.1	translocase of chloroplast 159, chloroplastic-like	Juglans regia	KDP28139.1
TRINITY_DN12196_c0_g1::TRINITY_DN12196_c0_g1_i3::g.11012::m.11012	1,11E-142	404	XP_018849277.1	probable aquaporin TIP3-2	Juglans regia	XP_018851532.1
TRINITY_DN18673_c1_g1::TRINITY_DN18673_c1_g1_i5::g.104369::m.104369	3,18E-64	199	AFK48658.1	unknown	Lotus japonicus	XP_012068990.1
TRINITY_DN19846_c6_g1::TRINITY_DN19846_c6_g1_i2::g.124495::m.124495	0	737	XP_016199270.1	LOW QUALITY PROTEIN: topless-related protein 4-like	Arachis ipaensis	XP_015935744.1
TRINITY_DN1593_c0_g1::TRINITY_DN1593_c0_g1_i1::g.417::m.417	2,68E-75	225	XP_018838135.1	uncharacterized protein LOC109004143 isoform X1	Juglans regia	XP_018838136.1
TRINITY_DN18479_c0_g3::TRINITY_DN18479_c0_g3_i1::g.100965::m.100965	4,35E-139	391	OIV93234.1	hypothetical protein TanjilG_27413	Lupinus angustifolius	XP_019423713.1
TRINITY_DN12843_c0_g1::TRINITY_DN12843_c0_g1_i3::g.16447::m.16447	0	1650	XP_018841898.1	probable starch synthase 4, chloroplastic/amyloplastic	Juglans regia	KDP37946.1

TRINITY_DN9796_c0_g1::TRINITY_DN9796_c0_g1_i1::g.3884::m.3884	0	943	XP_018826128.1	probable histone-arginine methyltransferase 1.3	Juglans regia	XP_018825751.1
TRINITY_DN19235_c2_g1::TRINITY_DN19235_c2_g1_i2::g.114336::m.114336	7,83E-103	319	XP_018826267.1	receptor-like protein kinase ANXUR2	Juglans regia	XP_018859750.1
TRINITY_DN19694_c1_g1::TRINITY_DN19694_c1_g1_i14::g.120695::m.120695	0	3939	XP_018850769.1	glutamate synthase [NADH], amyloplastic isoform X1	Juglans regia	XP_018838716.1
TRINITY_DN16533_c3_g1::TRINITY_DN16533_c3_g1_i1::g.69070::m.69070	0	508	XP_018835895.1	uncharacterized protein LOC109002555	Juglans regia	XP_018850123.1
TRINITY_DN11975_c0_g1::TRINITY_DN11975_c0_g1_i3::g.9738::m.9738	0	711	XP_018835079.1	developmentally-regulated G-protein 2	Juglans regia	KDP40713.1
TRINITY_DN12861_c0_g1::TRINITY_DN12861_c0_g1_i2::g.16621::m.16621	8,44E-97	282	XP_018831702.1	protein NUCLEAR FUSION DEFECTIVE 2	Juglans regia	ONI08410.1
TRINITY_DN14096_c0_g4::TRINITY_DN14096_c0_g4_i2::g.32317::m.32317	1,29E-50	161	XP_018834937.1	nascent polypeptide-associated complex subunit beta-like	Juglans regia	XP_018834149.1
TRINITY_DN16788_c0_g2::TRINITY_DN16788_c0_g2_i3::g.73187::m.73187	0	889	OAY36500.1	hypothetical protein MANES_11G025700	Manihot esculenta	XP_012068968.1
TRINITY_DN17508_c4_g1::TRINITY_DN17508_c4_g1_i3::g.85406::m.85406	8,74E-102	300	XP_008232561.1	uncharacterized protein LOC103331692	Prunus mume	ONI22544.1
TRINITY_DN15658_c0_g1::TRINITY_DN15658_c0_g1_i3::g.55055::m.55055	0	1873	XP_018856627.1	nuclear export mediator factor Nemf isoform X1	Juglans regia	XP_012084140.1
TRINITY_DN18925_c2_g2::TRINITY_DN18925_c2_g2_i2::g.109044::m.109044	4,60E-64	204	XP_018823005.1	probable pectate lyase P59	Juglans regia	XP_018812687.1
TRINITY_DN2281_c0_g1::TRINITY_DN2281_c0_g1_i1::g.635::m.635	0	698	XP_018813360.1	protein arginine N-methyltransferase 1.5-like	Juglans regia	ONI34114.1
TRINITY_DN14491_c1_g5::TRINITY_DN14491_c1_g5_i8::g.37914::m.37914	3,12E-62	192	XP_012068558.1	mitochondrial intermembrane space import and assembly protein 40 homolog	Jatropha curcas	KDP40464.1
TRINITY_DN14005_c0_g1::TRINITY_DN14005_c0_g1_i3::g.31329::m.31329	2,14E-54	176	XP_018825692.1	ubiquitin-conjugating enzyme E2 32-like	Juglans regia	OAY27662.1
TRINITY_DN19319_c0_g3::TRINITY_DN19319_c0_g3_i9::g.115912::m.115912	2,54E-56	180	XP_018857758.1	serine/arginine-rich splicing factor RSZ21	Juglans regia	XP_016190407.1
TRINITY_DN16713_c1_g3::TRINITY_DN16713_c1_g3_i3::g.72094::m.72094	1,17E-97	294	XP_018843093.1	uncharacterized protein LOC109007740 isoform X1	Juglans regia	KDP36714.1
TRINITY_DN14259_c3_g1::TRINITY_DN14259_c3_g1_i2::g.34652::m.34652	0	665	ONI09011.1	hypothetical protein PRUPE_5G211900	Prunus persica	ONI09012.1
TRINITY_DN11562_c0_g1::TRINITY_DN11562_c0_g1_i2::g.7869::m.7869	6,01E-83	246	XP_018848154.1	thioredoxin Y1, chloroplastic-like	Juglans regia	ONH90075.1
TRINITY_DN34461_c0_g1::TRINITY_DN34461_c0_g1_i1::g.130651::m.130651	6,32E-61	197	XP_018817991.1	exopolygalacturonase-like	Juglans regia	XP_018817992.1
TRINITY_DN11895_c0_g1::TRINITY_DN11895_c0_g1_i1::g.9352::m.9352	0	735	XP_018844051.1	probable glucan endo-1,3-beta-glucosidase A6	Juglans regia	ONI28912.1
TRINITY_DN15183_c1_g3::TRINITY_DN15183_c1_g3_i4::g.48285::m.48285	8,17E-132	379	XP_018822954.1	uncharacterized protein LOC108992770	Juglans regia	XP_017179652.1
TRINITY_DN14482_c0_g1::TRINITY_DN14482_c0_g1_i1::g.37716::m.37716	0	699	XP_018858563.1	protein transport protein SEC16B homolog	Juglans regia	XP_018859925.1

TRINITY_DN16600_c2_g1::TRINITY_DN16600_c2_g1_i15::g.68704::m.68704	5,56E-44	149	XP_018814379.1	protein FATTY ACID EXPORT 3, chloroplastic	Juglans regia	XP_016198771.1
TRINITY_DN16958_c1_g1::TRINITY_DN16958_c1_g1_i8::g.76184::m.76184	2,96E-70	213	XP_018855746.1	HMG1/2-like protein	Juglans regia	XP_018809064.1
TRINITY_DN13523_c0_g1::TRINITY_DN13523_c0_g1_i7::g.24832::m.24832	6,62E-105	303	XP_018849422.1	NADPH:quinone oxidoreductase-like	Juglans regia	XP_018818174.1
TRINITY_DN18718_c3_g5::TRINITY_DN18718_c3_g5_i3::g.105071::m.105071	2,61E-86	252	KYP55926.1	Multiprotein-bridging factor 1a	Cajanus cajan	KYP67761.1
TRINITY_DN17281_c2_g3::TRINITY_DN17281_c2_g3_i2::g.81288::m.81288	1,90E-78	234	XP_018845596.1	translation machinery-associated protein 22	Juglans regia	OAY53925.1
TRINITY_DN18452_c0_g3::TRINITY_DN18452_c0_g3_i8::g.100622::m.100622	1,82E-128	379	XP_018859162.1	putative 3,4-dihydroxy-2-butanone kinase, partial	Juglans regia	XP_018823489.1
TRINITY_DN14408_c0_g2::TRINITY_DN14408_c0_g2_i5::g.36629::m.36629	0	937	XP_018847688.1	SNARE-interacting protein KEULE isoform X2	Juglans regia	XP_018847679.1
TRINITY_DN19395_c1_g2::TRINITY_DN19395_c1_g2_i1::g.117249::m.117249	1,47E-76	226	XP_018840332.1	purple acid phosphatase 10-like	Juglans regia	ANG56537.1
TRINITY_DN16328_c4_g2::TRINITY_DN16328_c4_g2_i8::g.65867::m.65867	1,31E-157	442	XP_018815495.1	uncharacterized protein LOC108987089	Juglans regia	XP_009344930.1
TRINITY_DN16222_c1_g2::TRINITY_DN16222_c1_g2_i6::g.64132::m.64132	0	1014	XP_018851146.1	calcium-dependent protein kinase 20-like	Juglans regia	BAT96505.1
TRINITY_DN16296_c2_g1::TRINITY_DN16296_c2_g1_i8::g.65364::m.65364	0	527	XP_018852504.1	short-chain dehydrogenase TIC 32, chloroplastic-like	Juglans regia	XP_009374991.1
TRINITY_DN15139_c1_g2::TRINITY_DN15139_c1_g2_i1::g.47376::m.47376	0	926	XP_018841587.1	probable L-type lectin-domain containing receptor kinase S.5	Juglans regia	XP_018829183.1
TRINITY_DN17004_c0_g6::TRINITY_DN17004_c0_g6_i1::g.76895::m.76895	0	1931	XP_018833828.1	110 kDa U5 small nuclear ribonucleoprotein component CLO	Juglans regia	XP_008367763.1
TRINITY_DN12855_c4_g1::TRINITY_DN12855_c4_g1_i7::g.16693::m.16693	0	882	XP_018825775.1	uridine kinase-like protein 3	Juglans regia	XP_018813670.1
TRINITY_DN11323_c0_g1::TRINITY_DN11323_c0_g1_i5::g.7006::m.7006	2,36E-107	312	XP_018856589.1	vacuolar protein sorting-associated protein 20 homolog 2-like	Juglans regia	XP_018827788.1
TRINITY_DN18226_c4_g1::TRINITY_DN18226_c4_g1_i9::g.97134::m.97134	0	576	XP_018834921.1	protein FLX-like 2	Juglans regia	OAY60372.1
TRINITY_DN18320_c3_g1::TRINITY_DN18320_c3_g1_i1::g.98804::m.98804	0	595	ONI14643.1	hypothetical protein PRUPE_3G000200	Prunus persica	XP_007221486.1
TRINITY_DN12400_c3_g4::TRINITY_DN12400_c3_g4_i4::g.12578::m.12578	0	1130	XP_018833256.1	GBF-interacting protein 1-like isoform X2	Juglans regia	XP_018833257.1
TRINITY_DN15264_c3_g2::TRINITY_DN15264_c3_g2_i3::g.49355::m.49355	7,97E-87	255	OAY23775.1	hypothetical protein MANES_18G106200	Manihot esculenta	KDP26978.1
TRINITY_DN18252_c2_g3::TRINITY_DN18252_c2_g3_i2::g.97577::m.97577	0	898	XP_018858503.1	UDP-sulfoquinovose synthase, chloroplastic	Juglans regia	XP_018858504.1
TRINITY_DN14880_c3_g1::TRINITY_DN14880_c3_g1_i7::g.43762::m.43762	0	579	XP_018807006.1	ribosome maturation protein SBDS	Juglans regia	KDP43068.1
TRINITY_DN14491_c1_g6::TRINITY_DN14491_c1_g6_i1::g.37898::m.37898	4,69E-118	339	XP_018819044.1	inorganic pyrophosphatase 3-like	Juglans regia	XP_020536633.1

TRINITY_DN12086_c0_g1::TRINITY_DN12086_c0_g1_i1::g.10415::m.10415	6,64E-77	227	XP_018815656.1	acyl carrier protein 2, mitochondrial-like	Juglans regia	XP_018828996.1
TRINITY_DN17573_c2_g1::TRINITY_DN17573_c2_g1_i14::g.86248::m.86248	1,17E-89	268	XP_008229761.1	uncharacterized protein LOC103329111	Prunus mume	ONI18025.1
TRINITY_DN15292_c0_g3::TRINITY_DN15292_c0_g3_i4::g.49797::m.49797	5,68E-113	333	XP_018852566.1	uncharacterized protein LOC109014492 isoform X1	Juglans regia	XP_018852634.1
TRINITY_DN13144_c0_g1::TRINITY_DN13144_c0_g1_i6::g.19931::m.19931	2,64E-96	280	XP_018838514.1	uncharacterized protein LOC109004430	Juglans regia	OIV93225.1
TRINITY_DN19562_c2_g5::TRINITY_DN19562_c2_g5_i1::g.119826::m.119826	0	701	XP_018811352.1	heat shock 70 kDa protein 16-like	Juglans regia	XP_018811359.1
TRINITY_DN13091_c0_g1::TRINITY_DN13091_c0_g1_i8::g.19651::m.19651	2,85E-115	336	OAY23951.1	hypothetical protein MANES_18G120400	Manihot esculenta	OAY23950.1
TRINITY_DN14504_c3_g1::TRINITY_DN14504_c3_g1_i2::g.38234::m.38234	0	603	XP_018811788.1	dihydrolipoyllysine-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex 2, mitochondrial-like	Juglans regia	XP_008226865.1
TRINITY_DN15895_c3_g1::TRINITY_DN15895_c3_g1_i1::g.57722::m.57722	1,10E-149	428	XP_018833327.1	28 kDa ribonucleoprotein, chloroplastic-like	Juglans regia	KDP31006.1
TRINITY_DN18792_c0_g2::TRINITY_DN18792_c0_g2_i6::g.106589::m.106589	0	873	XP_008235650.1	serine/threonine-protein kinase tricorner-like	Prunus mume	XP_016650733.1
TRINITY_DN14028_c2_g1::TRINITY_DN14028_c2_g1_i4::g.31476::m.31476	0	1435	XP_018820782.1	respiratory burst oxidase homolog protein E isoform X1	Juglans regia	XP_018820783.1
TRINITY_DN18788_c0_g2::TRINITY_DN18788_c0_g2_i3::g.106445::m.106445	0	1233	XP_018822020.1	uncharacterized protein LOC108992033	Juglans regia	KDP32668.1
TRINITY_DN16241_c0_g1::TRINITY_DN16241_c0_g1_i2::g.63739::m.63739	7,70E-131	377	XP_018846318.1	cinnamoyl-CoA reductase 1-like	Juglans regia	KDP41979.1
TRINITY_DN19798_c2_g1::TRINITY_DN19798_c2_g1_i2::g.123755::m.123755	9,72E-38	138	XP_018860049.1	vesicle-fusing ATPase	Juglans regia	XP_018860050.1
TRINITY_DN13642_c0_g1::TRINITY_DN13642_c0_g1_i1::g.26569::m.26569	0	1066	XP_018814175.1	mitochondrial Rho GTPase 2-like isoform X1	Juglans regia	ONH93599.1
TRINITY_DN15510_c3_g3::TRINITY_DN15510_c3_g3_i2::g.53102::m.53102	0	855	XP_018818867.1	V-type proton ATPase subunit a1-like	Juglans regia	XP_018817442.1
TRINITY_DN14516_c0_g1::TRINITY_DN14516_c0_g1_i7::g.38023::m.38023	9,08E-90	267	XP_018805307.1	ATP-dependent Clp protease ATP-binding subunit CLPT1, chloroplastic	Juglans regia	XP_008231397.1
TRINITY_DN44543_c0_g1::TRINITY_DN44543_c0_g1_i1::g.132115::m.132115	3,86E-69	209	ACU13131.1	unknown	Glycine max	XP_014513266.1
TRINITY_DN19344_c5_g1::TRINITY_DN19344_c5_g1_i8::g.115623::m.115623						
TRINITY_DN14685_c0_g1::TRINITY_DN14685_c0_g1_i6::g.40758::m.40758	0	5051	XP_018835909.1	uncharacterized protein LOC109002567	Juglans regia	ONI06280.1
TRINITY_DN12342_c1_g2::TRINITY_DN12342_c1_g2_i2::g.12106::m.12106	3,61E-77	233	XP_018839161.1	early nodulin-like protein 1	Juglans regia	OAY53057.1
TRINITY_DN14553_c3_g1::TRINITY_DN14553_c3_g1_i5::g.38708::m.38708	0	867	XP_018850893.1	probable receptor-like protein kinase At5g61350	Juglans regia	XP_016651358.1

TRINITY_DN16423_c1_g1::TRINITY_DN16423_c1_g1_i12::g.67294::m.67294	0	1651	KDP46148.1	hypothetical protein JCGZ_06659	Jatropha curcas	XP_020535342.1
TRINITY_DN5236_c0_g1::TRINITY_DN5236_c0_g1_i1::g.1296::m.1296	4,90E-125	358	OAY49094.1	hypothetical protein MANES_05G029000	Manihot esculenta	XP_018841223.1
TRINITY_DN14069_c0_g3::TRINITY_DN14069_c0_g3_i3::g.32072::m.32072	0	710	XP_018858469.1	uncharacterized protein LOC109020435	Juglans regia	KDP40469.1
TRINITY_DN18518_c1_g1::TRINITY_DN18518_c1_g1_i12::g.103139::m.103139	0	1098	XP_018836708.1	mannosyl-oligosaccharide glucosidase GCS1-like isoform X6	Juglans regia	XP_018836709.1
TRINITY_DN18275_c0_g4::TRINITY_DN18275_c0_g4_i1::g.98310::m.98310	0	2842	XP_018852332.1	probable phosphoinositide phosphatase SAC9	Juglans regia	XP_008243038.1
TRINITY_DN20016_c1_g1::TRINITY_DN20016_c1_g1_i7::g.127847::m.127847	1,94E-169	476	XP_018844177.1	non-functional NADPH-dependent codeinone reductase 2-like isoform X1	Juglans regia	ONI30338.1
TRINITY_DN14420_c1_g1::TRINITY_DN14420_c1_g1_i4::g.36850::m.36850	4,13E-77	229	XP_018849484.1	uncharacterized protein LOC109012353	Juglans regia	XP_008219081.1
TRINITY_DN18968_c1_g1::TRINITY_DN18968_c1_g1_i9::g.109574::m.109574	0	828	XP_018845038.1	probable cadmium/zinc-transporting ATPase HMA1, chloroplastic	Juglans regia	XP_008238762.1
TRINITY_DN14219_c0_g1::TRINITY_DN14219_c0_g1_i18::g.33900::m.33900	1,67E-169	470	XP_018836403.1	dolichol-phosphate mannosyltransferase subunit 1	Juglans regia	KDP36797.1
TRINITY_DN16257_c0_g1::TRINITY_DN16257_c0_g1_i2::g.64601::m.64601	0	822	XP_018815156.1	uncharacterized protein LOC108986841 isoform X3	Juglans regia	XP_018815155.1
TRINITY_DN19366_c1_g3::TRINITY_DN19366_c1_g3_i1::g.116912::m.116912	4,62E-76	225	XP_018847221.1	NHP2-like protein 1	Juglans regia	XP_020204814.1
TRINITY_DN18230_c1_g3::TRINITY_DN18230_c1_g3_i4::g.97286::m.97286	8,97E-82	248	XP_018838439.1	uncharacterized protein LOC109004361	Juglans regia	KDP24159.1
TRINITY_DN16429_c0_g2::TRINITY_DN16429_c0_g2_i3::g.67310::m.67310	4,53E-103	306	XP_018824717.1	acyl-CoA-binding domain-containing protein 1-like isoform X1	Juglans regia	XP_018824718.1
TRINITY_DN18185_c0_g2::TRINITY_DN18185_c0_g2_i8::g.96676::m.96676	0	1256	XP_018833351.1	protein DEFECTIVE IN EXINE FORMATION 1	Juglans regia	XP_009370211.1
TRINITY_DN16928_c0_g2::TRINITY_DN16928_c0_g2_i1::g.75662::m.75662	9,53E-101	298	XP_018851859.1	2-oxoglutarate-dependent dioxygenase DAO-like	Juglans regia	XP_018851860.1
TRINITY_DN12765_c0_g2::TRINITY_DN12765_c0_g2_i9::g.15778::m.15778	1,43E-111	323	XP_018822168.1	peptidyl-prolyl cis-trans isomerase CYP21-4-like	Juglans regia	XP_018842322.1
TRINITY_DN16240_c0_g1::TRINITY_DN16240_c0_g1_i3::g.64405::m.64405	0	1309	XP_018836405.1	1,4-alpha-glucan-branching enzyme 1, chloroplastic/amyloplastic-like	Juglans regia	OAY50415.1
TRINITY_DN15464_c0_g4::TRINITY_DN15464_c0_g4_i1::g.52272::m.52272	8,06E-148	431	XP_018823263.1	probable mediator of RNA polymerase II transcription subunit 37c	Juglans regia	XP_018831319.1
TRINITY_DN17952_c0_g1::TRINITY_DN17952_c0_g1_i8::g.92586::m.92586	0	1387	XP_018835441.1	cullin-1-like	Juglans regia	XP_018835442.1
TRINITY_DN16980_c0_g3::TRINITY_DN16980_c0_g3_i2::g.76506::m.76506	0	1122	XP_018821637.1	putative pentatricopeptide repeat-containing protein At2g02150	Juglans regia	XP_018821639.1
TRINITY_DN14376_c2_g1::TRINITY_DN14376_c2_g1_i4::g.36173::m.36173	2,41E-75	228	OAY61455.1	hypothetical protein MANES_01G190000	Manihot esculenta	OAY61456.1
TRINITY_DN11353_c0_g1::TRINITY_DN11353_c0_g1_i1::g.7089::m.7089	2,47E-138	395	XP_018829313.1	U2 small nuclear ribonucleoprotein A'	Juglans regia	XP_008222301.1

TRINITY_DN17937_c1_g5::TRINITY_DN17937_c1_g5_i2::g.92219::m.92219	3,40E-46	155	XP_018858704.1	uncharacterized protein LOC109020641 isoform X2	Juglans regia	XP_018858710.1
TRINITY_DN15328_c3_g2::TRINITY_DN15328_c3_g2_i4::g.50205::m.50205	2,61E-148	431	XP_018852000.1	uncharacterized protein LOC109014122 isoform X1	Juglans regia	XP_018852001.1
TRINITY_DN19548_c2_g6::TRINITY_DN19548_c2_g6_i1::g.119771::m.119771	7,31E-105	316	XP_012083840.2	protein DETOXIFICATION 34	Jatropha curcas	XP_008233023.1
TRINITY_DN18997_c1_g1::TRINITY_DN18997_c1_g1_i3::g.110273::m.110273	0	1599	XP_018835198.1	ABC transporter G family member 31	Juglans regia	XP_018835198.1
TRINITY_DN17307_c3_g1::TRINITY_DN17307_c3_g1_i2::g.81691::m.81691	0	631	ONI16935.1	hypothetical protein PRUPE_3G131200	Prunus persica	XP_007198834.2
TRINITY_DN19257_c3_g1::TRINITY_DN19257_c3_g1_i1::g.114723::m.114723	0	532	XP_018849919.1	cytochrome b561 and DOMON domain-containing protein At5g47530-like	Juglans regia	OAY41119.1
TRINITY_DN19453_c0_g2::TRINITY_DN19453_c0_g2_i2::g.118209::m.118209	0	746	XP_018835196.1	probable trehalase	Juglans regia	XP_018824320.1
TRINITY_DN11079_c0_g1::TRINITY_DN11079_c0_g1_i1::g.6259::m.6259	0	566	XP_018847493.1	nitrile-specifier protein 5 isoform X1	Juglans regia	XP_018847494.1
TRINITY_DN18472_c4_g2::TRINITY_DN18472_c4_g2_i2::g.100983::m.100983	2,57E-166	476	XP_018822502.1	calcium-dependent protein kinase 24-like	Juglans regia	OIV99428.1
TRINITY_DN9342_c0_g1::TRINITY_DN9342_c0_g1_i1::g.3304::m.3304	0	598	XP_018844750.1	WD repeat-containing protein VIP3	Juglans regia	KEH32469.1
TRINITY_DN17375_c4_g1::TRINITY_DN17375_c4_g1_i2::g.82845::m.82845	0	1077	XP_018851853.1	molybdopterin biosynthesis protein CNX1	Juglans regia	XP_018851854.1
TRINITY_DN16195_c0_g1::TRINITY_DN16195_c0_g1_i3::g.63589::m.63589	5,83E-28	108	KDP43847.1	hypothetical protein JCGZ_20857	Jatropha curcas	XP_012065174.1
TRINITY_DN15131_c1_g3::TRINITY_DN15131_c1_g3_i1::g.47487::m.47487	2,43E-53	185	XP_018817838.1	methionine S-methyltransferase	Juglans regia	XP_009355389.1
TRINITY_DN17744_c7_g1::TRINITY_DN17744_c7_g1_i4::g.89103::m.89103	1,80E-140	397	XP_018852761.1	gamma-soluble NSF attachment protein-like, partial	Juglans regia	XP_018806434.1
TRINITY_DN18492_c0_g1::TRINITY_DN18492_c0_g1_i14::g.101403::m.101403	2,11E-88	275	XP_018822688.1	uncharacterized protein LOC108992543	Juglans regia	XP_018822693.1
TRINITY_DN20003_c1_g1::TRINITY_DN20003_c1_g1_i6::g.127620::m.127620	1,22E-52	165	XP_018846616.1	succinate dehydrogenase assembly factor 1, mitochondrial-like	Juglans regia	XP_018834218.1
TRINITY_DN14376_c2_g4::TRINITY_DN14376_c2_g4_i7::g.36164::m.36164	6,54E-104	302	XP_018831584.1	hypersensitive-induced response protein 1	Juglans regia	XP_018831584.1
TRINITY_DN17923_c2_g2::TRINITY_DN17923_c2_g2_i2::g.91995::m.91995	0	1453	ONI18007.1	hypothetical protein PRUPE_3G191700	Prunus persica	XP_007217043.1
TRINITY_DN12731_c3_g4::TRINITY_DN12731_c3_g4_i1::g.15536::m.15536	8,59E-67	214	XP_018825627.1	exopolygalacturonase-like	Juglans regia	XP_018809534.1
TRINITY_DN11014_c0_g1::TRINITY_DN11014_c0_g1_i2::g.6114::m.6114	1,25E-107	312	KDP34029.1	hypothetical protein JCGZ_07600	Jatropha curcas	XP_012077195.1
TRINITY_DN17625_c1_g2::TRINITY_DN17625_c1_g2_i5::g.87298::m.87298	0	676	XP_018810439.1	uncharacterized protein LOC108983304	Juglans regia	XP_018810614.1
TRINITY_DN15733_c1_g1::TRINITY_DN15733_c1_g1_i2::g.56414::m.56414	2,31E-97	281	XP_018828972.1	probable prefoldin subunit 5	Juglans regia	KDP37534.1

TRINITY_DN18395_c1_g2::TRINITY_DN18395_c1_g2_i6::g.99075::m.99075	1,53E-94	291	XP_018841544.1	ubiquitin domain-containing protein DSK2a-like isoform X3	Juglans regia	XP_018841544.1
TRINITY_DN15876_c0_g2::TRINITY_DN15876_c0_g2_i4::g.58231::m.58231	7,48E-57	186	XP_018808206.1	polyadenylate-binding protein RBP45-like isoform X2	Juglans regia	XP_018808206.1
TRINITY_DN17846_c4_g3::TRINITY_DN17846_c4_g3_i1::g.90654::m.90654	0	620	XP_018844673.1	protein bem46	Juglans regia	XP_020228885.1
TRINITY_DN19531_c0_g1::TRINITY_DN19531_c0_g1_i3::g.119625::m.119625	0	3323	XP_018818361.1	uncharacterized protein LOC108989269 isoform X1	Juglans regia	XP_018818363.1
TRINITY_DN19896_c1_g1::TRINITY_DN19896_c1_g1_i11::g.125427::m.125427	0	781	XP_018813340.1	diphosphomevalonate decarboxylase MVD2-like isoform X2	Juglans regia	XP_018813339.1
TRINITY_DN13610_c2_g1::TRINITY_DN13610_c2_g1_i1::g.26215::m.26215	0	641	XP_018844048.1	xylulose 5-phosphate/phosphate translocator, chloroplastic-like	Juglans regia	XP_008232176.1
TRINITY_DN17704_c0_g1::TRINITY_DN17704_c0_g1_i3::g.88593::m.88593	0	1362	XP_018823799.1	translocase of chloroplast 120, chloroplastic-like	Juglans regia	XP_018841453.1
TRINITY_DN13149_c0_g1::TRINITY_DN13149_c0_g1_i7::g.20402::m.20402	0	675	XP_018813478.1	ribose-phosphate pyrophosphokinase 4-like isoform X1	Juglans regia	ONI30368.1
TRINITY_DN16337_c1_g1::TRINITY_DN16337_c1_g1_i12::g.66068::m.66068	8,19E-139	407	XP_018816062.1	plant UBX domain-containing protein 11	Juglans regia	XP_018816063.1
TRINITY_DN18805_c4_g1::TRINITY_DN18805_c4_g1_i2::g.106689::m.106689	8,95E-105	303	XP_018815840.1	UMP-CMP kinase isoform X5	Juglans regia	XP_018815838.1
TRINITY_DN19153_c1_g3::TRINITY_DN19153_c1_g3_i2::g.112871::m.112871	2,12E-53	180	XP_018858842.1	patellin-4-like	Juglans regia	KRH36854.1
TRINITY_DN12257_c1_g1::TRINITY_DN12257_c1_g1_i2::g.11446::m.11446	0	802	XP_018806921.1	AP-2 complex subunit mu	Juglans regia	XP_018824667.1
TRINITY_DN14137_c0_g1::TRINITY_DN14137_c0_g1_i2::g.33039::m.33039	0	675	XP_018844104.1	threonine dehydratase biosynthetic, chloroplastic	Juglans regia	XP_009340966.1
TRINITY_DN14239_c2_g2::TRINITY_DN14239_c2_g2_i2::g.34369::m.34369	0	675	XP_018830097.1	exocyst complex component SEC10-like	Juglans regia	ONI23250.1
TRINITY_DN12628_c0_g1::TRINITY_DN12628_c0_g1_i15::g.14380::m.14380	2,10E-94	275	XP_008365972.1	AB hydrolase superfamily protein YfhM-like	Malus domestica	XP_009336925.1
TRINITY_DN16315_c0_g1::TRINITY_DN16315_c0_g1_i3::g.65602::m.65602	0	885	XP_018819948.1	3beta-hydroxysteroid-dehydrogenase/decarboxylase	Juglans regia	XP_018819949.1
TRINITY_DN11202_c0_g1::TRINITY_DN11202_c0_g1_i1::g.6604::m.6604	0	551	XP_018837250.1	annexin D5	Juglans regia	XP_004503249.1
TRINITY_DN12134_c9_g1::TRINITY_DN12134_c9_g1_i4::g.10752::m.10752	0	1008	XP_018816904.1	probable galacturonosyltransferase 9	Juglans regia	XP_008230332.1
TRINITY_DN16939_c0_g1::TRINITY_DN16939_c0_g1_i3::g.75902::m.75902	3,53E-90	266	XP_018849964.1	monothiol glutaredoxin-S10-like	Juglans regia	XP_008382672.1
TRINITY_DN17688_c2_g3::TRINITY_DN17688_c2_g3_i4::g.88274::m.88274	2,21E-46	159	XP_008237744.1	endoglucanase 9	Prunus mume	ONH89638.1
TRINITY_DN15001_c1_g2::TRINITY_DN15001_c1_g2_i1::g.45482::m.45482	1,18E-77	245	XP_018846208.1	polypyrimidine tract-binding protein homolog 3-like	Juglans regia	XP_017187311.1
TRINITY_DN15894_c0_g1::TRINITY_DN15894_c0_g1_i1::g.58474::m.58474	5,15E-102	299	XP_018856631.1	enoyl-CoA hydratase 2, peroxisomal	Juglans regia	ONI32267.1

TRINITY_DN16337_c1_g3::TRINITY_DN16337_c1_g3_i2::g.66071::m.66071	0	562	XP_018859271.1	28S ribosomal protein S9, mitochondrial	Juglans regia	XP_018859272.1
TRINITY_DN13153_c0_g3::TRINITY_DN13153_c0_g3_i1::g.20486::m.20486	1,05E-83	251	XP_018812118.1	beta-amylase 1, chloroplastic-like, partial	Juglans regia	XP_018858814.1
TRINITY_DN19578_c1_g1::TRINITY_DN19578_c1_g1_i9::g.120079::m.120079	4,11E-152	474	XP_018843078.1	calponin homology domain-containing protein DDB_G0272472	Juglans regia	XP_018843079.1
TRINITY_DN19156_c1_g1::TRINITY_DN19156_c1_g1_i7::g.113150::m.113150	8,47E-116	334	XP_018849297.1	ribonuclease 2	Juglans regia	OAY34914.1
TRINITY_DN18639_c0_g2::TRINITY_DN18639_c0_g2_i1::g.103472::m.103472	6,99E-62	207	XP_008374168.1	ADP-ribosylation factor GTPase-activating protein AGD3	Malus domestica	OAY48031.1
TRINITY_DN17531_c3_g1::TRINITY_DN17531_c3_g1_i2::g.85473::m.85473	3,83E-45	160	XP_018850837.1	germinal center kinase 1-like isoform X2	Juglans regia	XP_018850820.1
TRINITY_DN9714_c0_g1::TRINITY_DN9714_c0_g1_i2::g.3800::m.3800	0	865	XP_018842576.1	tocopherol cyclase, chloroplastic-like	Juglans regia	XP_018845525.1
TRINITY_DN17192_c0_g2::TRINITY_DN17192_c0_g2_i8::g.79905::m.79905	2,09E-84	256	ONI17464.1	hypothetical protein PRUPE_3G160800	Prunus persica	XP_020415028.1
TRINITY_DN17561_c0_g1::TRINITY_DN17561_c0_g1_i2::g.86132::m.86132	0	4642	XP_018851728.1	pre-mRNA-processing-splicing factor 8A-like	Juglans regia	XP_018851726.1
TRINITY_DN17433_c1_g2::TRINITY_DN17433_c1_g2_i1::g.83589::m.83589	6,59E-52	166	XP_018811251.1	hemiasterlin resistant protein 1	Juglans regia	XP_018826924.1
TRINITY_DN14320_c0_g6::TRINITY_DN14320_c0_g6_i4::g.35483::m.35483	1,98E-98	302	XP_018811770.1	target of Myb protein 1-like	Juglans regia	XP_018845550.1
TRINITY_DN13688_c0_g1::TRINITY_DN13688_c0_g1_i3::g.27185::m.27185	1,03E-178	501	XP_018816582.1	uncharacterized protein LOC108987951	Juglans regia	KDP43433.1
TRINITY_DN16402_c0_g3::TRINITY_DN16402_c0_g3_i1::g.67045::m.67045	4,78E-95	286	XP_018823907.1	uncharacterized protein LOC108993437	Juglans regia	XP_009355644.1
TRINITY_DN19228_c2_g1::TRINITY_DN19228_c2_g1_i5::g.114244::m.114244	2,49E-81	243	XP_018857124.1	membrane-associated progesterone-binding protein 4 isoform X1	Juglans regia	XP_018857125.1
TRINITY_DN16661_c1_g2::TRINITY_DN16661_c1_g2_i5::g.71230::m.71230	0	1176	XP_018816466.1	alkaline/neutral invertase A, mitochondrial isoform X1	Juglans regia	XP_018816467.1
TRINITY_DN17919_c1_g1::TRINITY_DN17919_c1_g1_i2::g.91916::m.91916	0	1969	XP_018834545.1	importin-5-like	Juglans regia	XP_018809428.1
TRINITY_DN19280_c0_g1::TRINITY_DN19280_c0_g1_i5::g.115042::m.115042	0	527	XP_018838909.1	uncharacterized protein LOC109004724 isoform X2	Juglans regia	XP_018838910.1
TRINITY_DN16384_c1_g4::TRINITY_DN16384_c1_g4_i4::g.66906::m.66906	0	822	XP_018808629.1	synaptotagmin-5-like	Juglans regia	OAY49277.1
TRINITY_DN11479_c0_g1::TRINITY_DN11479_c0_g1_i6::g.7503::m.7503	5,28E-93	272	XP_018834185.1	uncharacterized protein LOC109001389 isoform X1	Juglans regia	AFK43060.1
TRINITY_DN16861_c5_g5::TRINITY_DN16861_c5_g5_i1::g.74534::m.74534	3,61E-132	377	XP_018859928.1	peroxisome biogenesis protein 19-2-like	Juglans regia	ONI06608.1
TRINITY_DN20036_c5_g1::TRINITY_DN20036_c5_g1_i2::g.127587::m.127587	2,75E-97	295	XP_018811308.1	probable aspartyl aminopeptidase	Juglans regia	XP_018814786.1
TRINITY_DN16479_c1_g2::TRINITY_DN16479_c1_g2_i4::g.68347::m.68347	0	1342	XP_018821143.1	uncharacterized TPR repeat-containing protein At1g05150-like	Juglans regia	OAY50637.1

TRINITY_DN17999_c1_g1::TRINITY_DN17999_c1_g1_i8::g.91779::m.91779	7,52E-92	285	XP_018857443.1	aspartic proteinase-like protein 2 isoform X1	Juglans regia	XP_018857444.1
TRINITY_DN17673_c0_g1::TRINITY_DN17673_c0_g1_i5::g.88024::m.88024	0	991	XP_018816325.1	cellulose synthase-like protein D1	Juglans regia	OAY28231.1
TRINITY_DN10333_c0_g1::TRINITY_DN10333_c0_g1_i1::g.4649::m.4649	0	733	XP_016187654.1	elongation factor Tu, chloroplastic	Arachis ipaensis	CAA61444.1
TRINITY_DN13300_c0_g1::TRINITY_DN13300_c0_g1_i5::g.22083::m.22083	0	618	XP_018838659.1	glutathione synthetase, chloroplastic	Juglans regia	XP_008246528.1
TRINITY_DN18283_c0_g1::TRINITY_DN18283_c0_g1_i12::g.98055::m.98055	1,18E-108	318	XP_018858693.1	traB domain-containing protein-like	Juglans regia	ONI18511.1
TRINITY_DN10355_c0_g1::TRINITY_DN10355_c0_g1_i1::g.4689::m.4689						
TRINITY_DN15356_c1_g1::TRINITY_DN15356_c1_g1_i4::g.50914::m.50914	2,48E-91	282	XP_018849693.1	ERAD-associated E3 ubiquitin-protein ligase HRD1B-like	Juglans regia	XP_018849695.1
TRINITY_DN18321_c2_g1::TRINITY_DN18321_c2_g1_i1::g.98839::m.98839	9,75E-88	260	XP_018853745.1	vesicle-associated protein 1-3-like	Juglans regia	XP_018820386.1
TRINITY_DN13289_c1_g2::TRINITY_DN13289_c1_g2_i4::g.22093::m.22093	1,64E-36	125	XP_018856681.1	uncharacterized protein LOC109018939 isoform X2	Juglans regia	XP_018850003.1
TRINITY_DN13288_c0_g1::TRINITY_DN13288_c0_g1_i6::g.22068::m.22068	0	620	XP_018840790.1	glucan endo-1,3-beta-D-glucosidase	Juglans regia	ONI18348.1
TRINITY_DN17097_c0_g1::TRINITY_DN17097_c0_g1_i1::g.78356::m.78356	0	644	XP_008219547.1	uncharacterized protein LOC103319739	Prunus mume	XP_018822242.1
TRINITY_DN14079_c0_g2::TRINITY_DN14079_c0_g2_i4::g.32111::m.32111	2,95E-72	218	XP_008360788.1	probable aspartyl aminopeptidase, partial	Malus domestica	XP_018811308.1
TRINITY_DN14601_c2_g1::TRINITY_DN14601_c2_g1_i8::g.39287::m.39287	0	567	XP_018827750.1	zinc finger protein ZPR1-like	Juglans regia	XP_018827750.1
TRINITY_DN17332_c3_g1::TRINITY_DN17332_c3_g1_i4::g.82072::m.82072	0	601	XP_018846580.1	inositol oxygenase 4-like	Juglans regia	XP_008361306.1
TRINITY_DN18983_c0_g1::TRINITY_DN18983_c0_g1_i9::g.110074::m.110074	0	1150	XP_018808201.1	uncharacterized protein LOC108981462 isoform X2	Juglans regia	XP_018808192.1
TRINITY_DN17234_c0_g1::TRINITY_DN17234_c0_g1_i11::g.80741::m.80741	2,70E-47	168	XP_012080994.1	pullulanase 1, chloroplastic	Jatropha curcas	XP_018808474.1
TRINITY_DN16222_c0_g1::TRINITY_DN16222_c0_g1_i6::g.64118::m.64118	2,06E-63	201	XP_018845736.1	syntaxin-32-like	Juglans regia	XP_018845737.1
TRINITY_DN15263_c1_g2::TRINITY_DN15263_c1_g2_i4::g.49263::m.49263	0	690	XP_018851345.1	UDP-glycosyltransferase 74E2-like isoform X1	Juglans regia	XP_018851346.1
TRINITY_DN13753_c0_g1::TRINITY_DN13753_c0_g1_i3::g.27858::m.27858	0	566	XP_018827509.1	methylthioribose kinase-like	Juglans regia	KHN42353.1
TRINITY_DN17360_c0_g1::TRINITY_DN17360_c0_g1_i6::g.82556::m.82556	5,19E-77	246	XP_018820105.1	uncharacterized protein LOC108990561	Juglans regia	XP_018820105.1
TRINITY_DN11448_c0_g1::TRINITY_DN11448_c0_g1_i1::g.7372::m.7372	2,65E-56	178	XP_018819823.1	MFP1 attachment factor 1-like	Juglans regia	XP_018824955.1
TRINITY_DN13217_c3_g3::TRINITY_DN13217_c3_g3_i1::g.21250::m.21250	1,01E-135	396	XP_018840528.1	DUF21 domain-containing protein At4g14240-like	Juglans regia	XP_018826137.1

TRINITY_DN13260_c0_g1::TRINITY_DN13260_c0_g1_i2::g.21630::m.21630	1,75E-37	137	XP_018821273.1	peroxisomal membrane protein PEX14	Juglans regia	XP_018821274.1
TRINITY_DN19222_c3_g1::TRINITY_DN19222_c3_g1_i5::g.114236::m.114236	0	608	XP_018820828.1	anthocyanidin 3-O-glucosyltransferase 7-like isoform X2	Juglans regia	XP_018820827.1
TRINITY_DN10774_c0_g1::TRINITY_DN10774_c0_g1_i7::g.5503::m.5503	1,11E-121	350	XP_018814173.1	COP9 signalosome complex subunit 6a	Juglans regia	KDP29518.1
TRINITY_DN16241_c1_g4::TRINITY_DN16241_c1_g4_i5::g.63753::m.63753	0	1030	XP_018809511.1	pantothenate kinase 2 isoform X1	Juglans regia	XP_018809513.1
TRINITY_DN19395_c1_g4::TRINITY_DN19395_c1_g4_i2::g.117259::m.117259	0	823	XP_018821163.1	purple acid phosphatase 2-like	Juglans regia	XP_018821164.1
TRINITY_DN22718_c0_g1::TRINITY_DN22718_c0_g1_i1::g.128985::m.128985	2,27E-76	227	CAB66334.1	acidic endochitinase, partial	Betula pendula	XP_018838170.1
TRINITY_DN13284_c0_g1::TRINITY_DN13284_c0_g1_i3::g.21957::m.21957	0	601	XP_018835583.1	polyadenylate-binding protein RBP47-like isoform X1	Juglans regia	XP_018835584.1
TRINITY_DN19032_c2_g1::TRINITY_DN19032_c2_g1_i2::g.110806::m.110806	0	598	XP_018805195.1	probable serine/threonine-protein kinase DDB_G0291350	Juglans regia	ONI09009.1
TRINITY_DN16806_c1_g1::TRINITY_DN16806_c1_g1_i6::g.73621::m.73621	0	726	XP_018815003.1	histidinol-phosphate aminotransferase, chloroplastic-like	Juglans regia	XP_018815004.1
TRINITY_DN14774_c0_g5::TRINITY_DN14774_c0_g5_i3::g.42116::m.42116	0	2417	XP_018836518.1	splicing factor 3B subunit 3-like	Juglans regia	XP_018836519.1
TRINITY_DN11806_c0_g1::TRINITY_DN11806_c0_g1_i1::g.8989::m.8989	0	829	XP_018841303.1	acyl-coenzyme A thioesterase 9, mitochondrial-like isoform X3	Juglans regia	XP_018841302.1
TRINITY_DN15677_c1_g6::TRINITY_DN15677_c1_g6_i3::g.55549::m.55549	4,57E-69	221	XP_018825904.1	uncharacterized protein LOC108994927 isoform X2	Juglans regia	XP_018825905.1
TRINITY_DN13179_c1_g1::TRINITY_DN13179_c1_g1_i6::g.20799::m.20799	1,13E-100	291	OAY33789.1	hypothetical protein MANES_13G124900	Manihot esculenta	XP_009375705.1
TRINITY_DN14413_c0_g2::TRINITY_DN14413_c0_g2_i2::g.36805::m.36805	0	793	XP_018824373.1	methionine gamma-lyase	Juglans regia	OAY21242.1
TRINITY_DN19247_c0_g1::TRINITY_DN19247_c0_g1_i8::g.114528::m.114528	1,56E-161	461	XP_018859052.1	coatomer subunit delta	Juglans regia	XP_018859053.1
TRINITY_DN17718_c6_g2::TRINITY_DN17718_c6_g2_i4::g.88774::m.88774	0	1478	XP_018852141.1	serine/threonine-protein kinase EDR1-like isoform X4	Juglans regia	XP_018852140.1
TRINITY_DN18436_c0_g2::TRINITY_DN18436_c0_g2_i2::g.100108::m.100108	0	592	XP_018815864.1	conserved oligomeric Golgi complex subunit 7	Juglans regia	XP_008376080.1
TRINITY_DN19343_c7_g2::TRINITY_DN19343_c7_g2_i2::g.116418::m.116418	5,57E-63	204	XP_007152599.1	hypothetical protein PHAVU_004G143600g	Phaseolus vulgaris	ESW24593.1
TRINITY_DN18242_c3_g1::TRINITY_DN18242_c3_g1_i7::g.97423::m.97423	4,20E-16	82,8	XP_018807889.1	heterogeneous nuclear ribonucleoprotein 1-like	Juglans regia	XP_018807889.1
TRINITY_DN14572_c4_g1::TRINITY_DN14572_c4_g1_i1::g.39016::m.39016	2,02E-59	191	XP_018851581.1	oleoyl-acyl carrier protein thioesterase 1, chloroplastic-like	Juglans regia	XP_018830356.1
TRINITY_DN13884_c2_g1::TRINITY_DN13884_c2_g1_i6::g.29871::m.29871	0	585	XP_018842779.1	polyadenylate-binding protein-interacting protein 12-like	Juglans regia	XP_018842779.1
TRINITY_DN17016_c4_g1::TRINITY_DN17016_c4_g1_i2::g.77096::m.77096	4,10E-58	191	KYP53201.1	Sugar transporter ERD6-like 6	Cajanus cajan	XP_020229565.1

TRINITY_DN14069_c0_g5::TRINITY_DN14069_c0_g5_i5::g.32070::m.32070	7,94E-72	224	XP_018834116.1	probable isoprenylcysteine alpha-carbonyl methylesterase ICMEL2	Juglans regia	XP_008230375.1
TRINITY_DN17522_c3_g1::TRINITY_DN17522_c3_g1_i3::g.85131::m.85131	2,24E-67	204	XP_018840440.1	50S ribosomal protein HLP, mitochondrial-like isoform X2	Juglans regia	XP_018840439.1
TRINITY_DN18040_c0_g1::TRINITY_DN18040_c0_g1_i2::g.94127::m.94127	5,90E-167	470	KDP40635.1	hypothetical protein JCGZ_24634	Jatropha curcas	XP_012068802.1
TRINITY_DN15831_c4_g2::TRINITY_DN15831_c4_g2_i2::g.57659::m.57659	0	920	XP_018825496.1	non-specific phospholipase C2	Juglans regia	XP_009337051.1
TRINITY_DN17167_c4_g1::TRINITY_DN17167_c4_g1_i2::g.79586::m.79586	4,62E-97	286	XP_018812413.1	uncharacterized protein LOC108984806	Juglans regia	XP_020540194.1
TRINITY_DN14538_c2_g2::TRINITY_DN14538_c2_g2_i9::g.38508::m.38508	2,70E-136	385	XP_018834170.1	membrin-11-like	Juglans regia	XP_018839683.1
TRINITY_DN16535_c0_g2::TRINITY_DN16535_c0_g2_i8::g.69172::m.69172	0	775	XP_018846814.1	ammonium transporter 1 member 1-like	Juglans regia	XP_008224012.1
TRINITY_DN14304_c1_g1::TRINITY_DN14304_c1_g1_i6::g.35219::m.35219	1,18E-18	84,7	XP_018845734.1	probable serine/threonine-protein kinase kinX	Juglans regia	XP_008219845.1
TRINITY_DN19010_c0_g2::TRINITY_DN19010_c0_g2_i1::g.110437::m.110437	2,83E-65	198	XP_018835303.1	glycine-rich RNA-binding protein 4, mitochondrial-like	Juglans regia	XP_018835298.1
TRINITY_DN16594_c0_g2::TRINITY_DN16594_c0_g2_i1::g.69960::m.69960	3,15E-176	494	XP_018847248.1	copper chaperone for superoxide dismutase, chloroplastic/cytosolic isoform X1	Juglans regia	XP_018847253.1
TRINITY_DN19775_c1_g1::TRINITY_DN19775_c1_g1_i3::g.123478::m.123478	0	2670	XP_018829523.1	nuclear pore complex protein NUP155	Juglans regia	ONI31831.1
TRINITY_DN12386_c0_g1::TRINITY_DN12386_c0_g1_i3::g.12387::m.12387	0	1063	XP_018839879.1	vacuolar protein sorting-associated protein 45 homolog isoform X1	Juglans regia	XP_009348500.1
TRINITY_DN13587_c1_g3::TRINITY_DN13587_c1_g3_i8::g.25768::m.25768	0	543	XP_018858731.1	(+)-neomenthol dehydrogenase-like	Juglans regia	KDP42906.1
TRINITY_DN15400_c1_g2::TRINITY_DN15400_c1_g2_i8::g.50620::m.50620	1,01E-116	331	XP_018826216.1	uncharacterized protein At5g01610-like	Juglans regia	XP_018809179.1
TRINITY_DN14459_c0_g1::TRINITY_DN14459_c0_g1_i2::g.37381::m.37381	0	617	XP_018811142.1	mevalonate kinase	Juglans regia	KDP23529.1
TRINITY_DN11301_c0_g1::TRINITY_DN11301_c0_g1_i2::g.6892::m.6892	1,03E-126	370	XP_018841848.1	notchless protein homolog	Juglans regia	XP_018841848.1
TRINITY_DN15762_c0_g1::TRINITY_DN15762_c0_g1_i1::g.56697::m.56697	0	2657	XP_018814445.1	probable phosphoribosylformylglycinamidine synthase, chloroplastic/mitochondrial	Juglans regia	XP_018814446.1
TRINITY_DN15598_c1_g1::TRINITY_DN15598_c1_g1_i2::g.54269::m.54269	0	877	XP_018816759.1	uncharacterized protein LOC108988098 isoform X1	Juglans regia	XP_018816760.1
TRINITY_DN11950_c0_g1::TRINITY_DN11950_c0_g1_i3::g.9633::m.9633	1,23E-166	468	XP_018847037.1	ubiquitin carboxyl-terminal hydrolase 4	Juglans regia	OAY22015.1
TRINITY_DN11646_c0_g1::TRINITY_DN11646_c0_g1_i1::g.8053::m.8053	1,16E-83	270	XP_018828527.1	nardilysin-like	Juglans regia	XP_016646759.1
TRINITY_DN15411_c1_g1::TRINITY_DN15411_c1_g1_i1::g.51593::m.51593	0	619	XP_018814289.1	topless-related protein 4-like	Juglans regia	XP_018814290.1
TRINITY_DN16682_c4_g1::TRINITY_DN16682_c4_g1_i2::g.71560::m.71560	2,62E-50	174	XP_018846385.1	probable nucleoredoxin 1	Juglans regia	XP_018846385.1

TRINITY_DN18037_c1_g1::TRINITY_DN18037_c1_g1_i9::g.94092::m.94092	0	924	XP_018830065.1	uncharacterized protein LOC108998071	Juglans regia	AAO14626.1
TRINITY_DN15485_c1_g1::TRINITY_DN15485_c1_g1_i8::g.52679::m.52679	9,13E-62	201	XP_018823837.1	eukaryotic translation initiation factor 4B3	Juglans regia	XP_018841447.1
TRINITY_DN14982_c0_g1::TRINITY_DN14982_c0_g1_i9::g.45222::m.45222	3,77E-173	488	XP_018836146.1	uncharacterized protein LOC109002731	Juglans regia	XP_018833900.1
TRINITY_DN19482_c6_g1::TRINITY_DN19482_c6_g1_i8::g.118606::m.118606	2,20E-123	352	XP_018856489.1	uncharacterized protein At5g50100, mitochondrial	Juglans regia	XP_008239718.1
TRINITY_DN14898_c0_g1::TRINITY_DN14898_c0_g1_i2::g.43888::m.43888	0	600	XP_018808112.1	zinc-binding alcohol dehydrogenase domain-containing protein 2 isoform X1	Juglans regia	OAY39079.1
TRINITY_DN16344_c0_g1::TRINITY_DN16344_c0_g1_i6::g.66181::m.66181	0	541	XP_018857864.1	7-methylguanosine phosphate-specific 5'-nucleotidase A-like	Juglans regia	XP_018857865.1
TRINITY_DN16793_c3_g3::TRINITY_DN16793_c3_g3_i3::g.73369::m.73369	0	515	XP_018850746.1	uncharacterized protein LOC109013191 isoform X2	Juglans regia	ONI12657.1
TRINITY_DN15444_c2_g1::TRINITY_DN15444_c2_g1_i4::g.52046::m.52046	7,92E-40	139	XP_018852448.1	late embryogenesis abundant protein 1-like	Juglans regia	XP_008371385.1
TRINITY_DN17936_c4_g1::TRINITY_DN17936_c4_g1_i9::g.92365::m.92365	1,01E-76	236	XP_018816070.1	CMP-sialic acid transporter 3	Juglans regia	XP_018816071.1
TRINITY_DN18579_c2_g2::TRINITY_DN18579_c2_g2_i4::g.102900::m.102900	0	514	XP_018831176.1	uncharacterized Rho GTPase-activating protein At5g61530-like isoform X2	Juglans regia	XP_018831175.1
TRINITY_DN14828_c0_g3::TRINITY_DN14828_c0_g3_i7::g.43009::m.43009	2,68E-151	441	XP_018820769.1	probable inactive purple acid phosphatase 27 isoform X3	Juglans regia	XP_018820768.1
TRINITY_DN16126_c1_g1::TRINITY_DN16126_c1_g1_i17::g.62053::m.62053	1,89E-132	385	XP_018813062.1	alanine--glyoxylate aminotransferase 2 homolog 3, mitochondrial-like	Juglans regia	XP_018819405.1
TRINITY_DN16055_c0_g1::TRINITY_DN16055_c0_g1_i6::g.61225::m.61225	0	933	XP_018806130.1	guanylate-binding protein 1-like	Juglans regia	XP_018811300.1
TRINITY_DN17454_c3_g1::TRINITY_DN17454_c3_g1_i1::g.84103::m.84103	5,72E-174	489	XP_018808627.1	probable carboxylesterase 8	Juglans regia	XP_008232822.1
TRINITY_DN17924_c2_g1::TRINITY_DN17924_c2_g1_i1::g.91979::m.91979	2,68E-155	438	XP_018850530.1	replication protein A 32 kDa subunit A-like isoform X1	Juglans regia	XP_018850532.1
TRINITY_DN14710_c1_g2::TRINITY_DN14710_c1_g2_i5::g.41059::m.41059	6,24E-95	282	XP_018828823.1	rhomboid-like protein 19	Juglans regia	ONH91897.1
TRINITY_DN12060_c0_g1::TRINITY_DN12060_c0_g1_i2::g.10212::m.10212	1,72E-163	475	XP_018824402.1	protein NLRC3	Juglans regia	XP_018824402.1
TRINITY_DN14479_c0_g2::TRINITY_DN14479_c0_g2_i3::g.37670::m.37670	6,58E-40	135	XP_018817075.1	uncharacterized protein LOC108988301, partial	Juglans regia	XP_018851360.1
TRINITY_DN13943_c0_g2::TRINITY_DN13943_c0_g2_i1::g.30525::m.30525	2,69E-66	199	XP_008371027.1	mitochondrial pyruvate carrier 4	Malus domestica	XP_008355920.1
TRINITY_DN17241_c0_g1::TRINITY_DN17241_c0_g1_i1::g.80827::m.80827	0	1265	XP_018835052.1	subtilisin-like protease SBT1.4	Juglans regia	OAY53224.1
TRINITY_DN17619_c0_g2::TRINITY_DN17619_c0_g2_i5::g.87168::m.87168	0	1042	XP_018809157.1	protein CYPRO4-like	Juglans regia	XP_018817815.1
TRINITY_DN17406_c4_g1::TRINITY_DN17406_c4_g1_i2::g.83243::m.83243	3,67E-156	445	XP_018847666.1	solanesyl diphosphate synthase 3, chloroplastic/mitochondrial isoform X2	Juglans regia	XP_018847665.1

TRINITY_DN17708_c1_g1::TRINITY_DN17708_c1_g1_i3::g.88548::m.88548	0	845	XP_018840171.1	actin-related protein 4-like	Juglans regia	XP_018825389.1
TRINITY_DN13981_c1_g3::TRINITY_DN13981_c1_g3_i1::g.30911::m.30911	0	559	XP_018859227.1	uncharacterized protein At1g04910	Juglans regia	XP_008353648.1
TRINITY_DN15411_c1_g2::TRINITY_DN15411_c1_g2_i10::g.51619::m.51619	1,18E-87	270	XP_018846220.1	RNA-binding protein 39-like	Juglans regia	XP_018824937.1
TRINITY_DN16049_c0_g2::TRINITY_DN16049_c0_g2_i3::g.60387::m.60387	1,94E-162	453	XP_018817906.1	NADPH-dependent pterin aldehyde reductase	Juglans regia	OAY45073.1
TRINITY_DN16235_c0_g1::TRINITY_DN16235_c0_g1_i5::g.64344::m.64344	0	1255	XP_018845886.1	long chain acyl-CoA synthetase 7, peroxisomal-like isoform X1	Juglans regia	XP_018845887.1
TRINITY_DN19621_c6_g3::TRINITY_DN19621_c6_g3_i2::g.120980::m.120980	0	1964	XP_018818762.1	trafficking protein particle complex subunit 11 isoform X2	Juglans regia	XP_018818761.1
TRINITY_DN11269_c0_g1::TRINITY_DN11269_c0_g1_i4::g.6758::m.6758	1,19E-50	159	XP_018823952.1	NADH dehydrogenase	ubiquinone 1 beta subcomplex subunit 7-like	XP_004497173.1
TRINITY_DN15638_c0_g2::TRINITY_DN15638_c0_g2_i2::g.54677::m.54677	4,67E-142	401	XP_018815216.1	U1 small nuclear ribonucleoprotein A-like	Juglans regia	XP_018843609.1
TRINITY_DN10146_c0_g1::TRINITY_DN10146_c0_g1_i1::g.4308::m.4308	7,04E-40	132	XP_018830814.1	mitochondrial import inner membrane translocase subunit TIM8	Juglans regia	XP_008239525.1
TRINITY_DN13752_c3_g3::TRINITY_DN13752_c3_g3_i1::g.27967::m.27967	0	819	XP_018831645.1	protein NRT1/ PTR FAMILY 2.8	Juglans regia	XP_019462778.1
TRINITY_DN15810_c0_g1::TRINITY_DN15810_c0_g1_i2::g.57313::m.57313	8,48E-78	236	XP_018850528.1	novel plant SNARE 13-like	Juglans regia	XP_018833856.1
TRINITY_DN19614_c2_g7::TRINITY_DN19614_c2_g7_i3::g.120831::m.120831	4,56E-111	329	XP_018856691.1	LOB domain-containing protein 36-like	Juglans regia	OAY35348.1
TRINITY_DN15371_c0_g2::TRINITY_DN15371_c0_g2_i1::g.50837::m.50837	0	630	XP_018806029.1	zinc finger protein-like 1 homolog isoform X2	Juglans regia	XP_018806028.1
TRINITY_DN13573_c3_g3::TRINITY_DN13573_c3_g3_i2::g.25665::m.25665	2,68E-107	320	XP_018845677.1	uncharacterized protein At2g24330	Juglans regia	XP_018813351.1
TRINITY_DN17808_c3_g2::TRINITY_DN17808_c3_g2_i3::g.89986::m.89986	4,62E-38	127	XP_015962951.1	uncharacterized protein LOC107486893	Arachis duranensis	KHN17310.1
TRINITY_DN17336_c6_g1::TRINITY_DN17336_c6_g1_i1::g.82089::m.82089	0	949	XP_018817860.1	methylcrotonoyl-CoA carboxylase beta chain, mitochondrial isoform X2	Juglans regia	XP_018817859.1
TRINITY_DN17735_c1_g2::TRINITY_DN17735_c1_g2_i2::g.89035::m.89035	1,01E-89	269	XP_018844199.1	putative quinone-oxidoreductase homolog, chloroplastic	Juglans regia	XP_018850172.1
TRINITY_DN16119_c4_g1::TRINITY_DN16119_c4_g1_i1::g.62575::m.62575	0	1020	XP_018858950.1	protein transport protein SEC24	Juglans regia	XP_018858951.1
TRINITY_DN16898_c0_g1::TRINITY_DN16898_c0_g1_i2::g.75056::m.75056	1,27E-96	285	XP_018837111.1	uncharacterized protein LOC109003443 isoform X1	Juglans regia	XP_018837120.1
TRINITY_DN17578_c2_g1::TRINITY_DN17578_c2_g1_i2::g.85652::m.85652	0	650	XP_018845644.1	COP9 signalosome complex subunit 5b-like	Juglans regia	KDP33444.1
TRINITY_DN17051_c1_g1::TRINITY_DN17051_c1_g1_i6::g.77580::m.77580	0	889	XP_018807346.1	uncharacterized protein LOC108980794	Juglans regia	XP_015953619.1

TRINITY_DN13889_c0_g1::TRINITY_DN13889_c0_g1_i2::g.29853::m.29853	0	1376	XP_018837769.1	pentatricopeptide repeat-containing protein At2g37230	Juglans regia	XP_018837770.1
TRINITY_DN15642_c0_g3::TRINITY_DN15642_c0_g3_i1::g.55086::m.55086	3,37E-91	265	AFK46227.1	unknown	Lotus japonicus	XP_018809666.1
TRINITY_DN12917_c0_g1::TRINITY_DN12917_c0_g1_i8::g.17363::m.17363	1,77E-71	223	XP_018849705.1	chaperone protein dnaJ 15-like	Juglans regia	KHN06676.1
TRINITY_DN18228_c1_g3::TRINITY_DN18228_c1_g3_i10::g.97346::m.97346	0	620	XP_018833878.1	DEAD-box ATP-dependent RNA helicase 40 isoform X1	Juglans regia	XP_018833878.1
TRINITY_DN14656_c1_g3::TRINITY_DN14656_c1_g3_i2::g.40036::m.40036	0	1633	XP_018849148.1	K(+) efflux antiporter 2, chloroplastic-like	Juglans regia	XP_018845392.1
TRINITY_DN17427_c0_g1::TRINITY_DN17427_c0_g1_i5::g.83626::m.83626	1,93E-173	501	XP_018852051.1	uncharacterized protein LOC109014152 isoform X4	Juglans regia	XP_018852051.1
TRINITY_DN12519_c1_g2::TRINITY_DN12519_c1_g2_i2::g.13489::m.13489	2,39E-70	226	XP_018820767.1	probable inactive purple acid phosphatase 27 isoform X1	Juglans regia	XP_008231569.2
TRINITY_DN16485_c1_g1::TRINITY_DN16485_c1_g1_i5::g.68172::m.68172	0	677	XP_018831170.1	ATP-dependent 6-phosphofructokinase 4, chloroplastic	Juglans regia	ONI24965.1
TRINITY_DN16382_c2_g3::TRINITY_DN16382_c2_g3_i2::g.66735::m.66735	1,24E-139	404	XP_018845036.1	putative oxidoreductase TDA3	Juglans regia	ONI02917.1
TRINITY_DN12471_c0_g1::TRINITY_DN12471_c0_g1_i6::g.13129::m.13129	0	679	XP_018852537.1	mitochondrial import inner membrane translocase subunit TIM44-2-like	Juglans regia	OAY34596.1
TRINITY_DN13404_c2_g1::TRINITY_DN13404_c2_g1_i2::g.23444::m.23444	1,80E-61	198	XP_018857362.1	tetratricopeptide repeat protein 38	Juglans regia	XP_018857363.1
TRINITY_DN13849_c3_g3::TRINITY_DN13849_c3_g3_i8::g.28501::m.28501	6,55E-153	436	XP_018828830.1	zinc finger CCCH domain-containing protein 11-like	Juglans regia	ONI24039.1
TRINITY_DN10714_c0_g1::TRINITY_DN10714_c0_g1_i7::g.5396::m.5396	0	1032	XP_018815300.1	amidophosphoribosyltransferase, chloroplastic	Juglans regia	XP_018841407.1
TRINITY_DN17727_c1_g3::TRINITY_DN17727_c1_g3_i1::g.88887::m.88887	0	550	XP_018818699.1	serine carboxypeptidase II-2	Juglans regia	XP_008243035.1
TRINITY_DN13894_c1_g1::TRINITY_DN13894_c1_g1_i8::g.29999::m.29999	2,00E-112	336	XP_008223354.1	aldehyde dehydrogenase 22A1	Prunus mume	XP_016648043.1
TRINITY_DN15301_c2_g1::TRINITY_DN15301_c2_g1_i12::g.49765::m.49765	3,05E-117	334	XP_008234264.1	ADP-ribosylation factor-related protein 1	Prunus mume	XP_018830856.1
TRINITY_DN17157_c0_g1::TRINITY_DN17157_c0_g1_i2::g.79386::m.79386	6,13E-69	211	ONI18405.1	hypothetical protein PRUPE_3G213900	Prunus persica	XP_007217271.1
TRINITY_DN19995_c2_g1::TRINITY_DN19995_c2_g1_i2::g.127478::m.127478	0	926	XP_018847585.1	subtilisin-like protease SBT4.14	Juglans regia	XP_008232921.1
TRINITY_DN13004_c2_g2::TRINITY_DN13004_c2_g2_i3::g.18474::m.18474	1,35E-134	386	XP_018856033.1	fatty-acid-binding protein 1	Juglans regia	KDP21455.1
TRINITY_DN10567_c0_g1::TRINITY_DN10567_c0_g1_i2::g.5026::m.5026	2,30E-26	99	KRH07998.1	hypothetical protein GLYMA_16G123000	Glycine max	KDP23968.1
TRINITY_DN18294_c2_g1::TRINITY_DN18294_c2_g1_i3::g.98438::m.98438	0	1554	XP_018860622.1	epidermal growth factor receptor substrate 15-like 1 isoform X2	Juglans regia	XP_018860621.1
TRINITY_DN16056_c1_g1::TRINITY_DN16056_c1_g1_i8::g.61254::m.61254	1,96E-153	433	XP_018843911.1	secretory carrier-associated membrane protein 4	Juglans regia	XP_018852208.1

TRINITY_DN13008_c2_g1::TRINITY_DN13008_c2_g1_i1::g.18585::m.18585	2,37E-161	468	XP_018827529.1	beta-galactosidase 6-like isoform X3	Juglans regia	XP_018827527.1
TRINITY_DN12353_c0_g1::TRINITY_DN12353_c0_g1_i1::g.12504::m.12504	1,75E-111	341	XP_018807539.1	scopoletin glucosyltransferase-like	Juglans regia	XP_018807539.1
TRINITY_DN19066_c1_g3::TRINITY_DN19066_c1_g3_i1::g.111236::m.111236	7,62E-158	444	XP_018850582.1	uncharacterized protein At2g34460, chloroplastic	Juglans regia	OAY25119.1
TRINITY_DN17441_c2_g4::TRINITY_DN17441_c2_g4_i3::g.83805::m.83805	0	688	XP_018833274.1	endoplasmic reticulum-Golgi intermediate compartment protein 3 isoform X1	Juglans regia	XP_018833275.1
TRINITY_DN1382_c0_g1::TRINITY_DN1382_c0_g1_i1::g.348::m.348	9,24E-134	384	XP_016194705.1	actin-97-like	Arachis ipaensis	XP_015962997.1
TRINITY_DN17113_c0_g1::TRINITY_DN17113_c0_g1_i1::g.78814::m.78814	0	2048	XP_018849357.1	exportin-7 isoform X1	Juglans regia	XP_018849358.1
TRINITY_DN19775_c0_g3::TRINITY_DN19775_c0_g3_i2::g.123476::m.123476	3,79E-138	400	XP_018839164.1	serine hydroxymethyltransferase 3, chloroplastic-like	Juglans regia	XP_018822579.1
TRINITY_DN12824_c1_g1::TRINITY_DN12824_c1_g1_i1::g.16233::m.16233	3,87E-116	346	XP_018841524.1	serine/threonine-protein kinase STY46-like isoform X2	Juglans regia	XP_018841522.1
TRINITY_DN11410_c0_g1::TRINITY_DN11410_c0_g1_i1::g.7283::m.7283	0	518	XP_018806031.1	mitotic checkpoint protein BUB3.2	Juglans regia	XP_018852123.1
TRINITY_DN14617_c1_g1::TRINITY_DN14617_c1_g1_i9::g.39676::m.39676	0	891	XP_008218919.1	probable alkaline/neutral invertase D	Prunus mume	XP_016647230.1
TRINITY_DN11064_c0_g2::TRINITY_DN11064_c0_g2_i1::g.6238::m.6238	2,47E-164	462	KDP37227.1	hypothetical protein JCGZ_06283	Jatropha curcas	XP_012073347.1
TRINITY_DN14194_c1_g1::TRINITY_DN14194_c1_g1_i9::g.33557::m.33557	1,78E-94	286	XP_018812532.1	small glutamine-rich tetratricopeptide repeat-containing protein isoform X3	Juglans regia	XP_018812531.1
TRINITY_DN9434_c0_g1::TRINITY_DN9434_c0_g1_i2::g.3474::m.3474	0	1154	XP_018827923.1	DEAD-box ATP-dependent RNA helicase 31-like isoform X1	Juglans regia	XP_018827924.1
TRINITY_DN16217_c1_g2::TRINITY_DN16217_c1_g2_i5::g.64084::m.64084	0	709	XP_018830819.1	uncharacterized protein LOC108998648	Juglans regia	ONI25150.1
TRINITY_DN16504_c2_g1::TRINITY_DN16504_c2_g1_i5::g.68713::m.68713	4,42E-111	315	XP_008389513.1	ubiquitin-conjugating enzyme E2 2-like	Malus domestica	XP_018819103.1
TRINITY_DN14373_c0_g1::TRINITY_DN14373_c0_g1_i5::g.36002::m.36002	8,35E-65	198	XP_018855445.1	dCTP pyrophosphatase 1-like, partial	Juglans regia	XP_018848325.1
TRINITY_DN19595_c1_g1::TRINITY_DN19595_c1_g1_i3::g.120443::m.120443	3,43E-56	173	XP_018805857.1	endoplasmic reticulum oxidoreductin-2-like	Juglans regia	OAY29178.1
TRINITY_DN16684_c1_g1::TRINITY_DN16684_c1_g1_i1::g.71521::m.71521	2,87E-57	181	KHN24180.1	Ras-related protein RHN1	Glycine soja	CAX86753.1
TRINITY_DN18955_c3_g1::TRINITY_DN18955_c3_g1_i8::g.109317::m.109317	0	1008	XP_018824253.1	uncharacterized protein LOC108993713	Juglans regia	XP_012079025.1
TRINITY_DN19877_c3_g4::TRINITY_DN19877_c3_g4_i1::g.125024::m.125024	1,91E-53	167	ONI32563.1	hypothetical protein PRUPE_1G373500	Prunus persica	XP_018822047.1
TRINITY_DN11684_c0_g1::TRINITY_DN11684_c0_g1_i1::g.8363::m.8363	6,24E-117	341	OAY27542.1	hypothetical protein MANES_16G133500	Manihot esculenta	OAY57022.1
TRINITY_DN16471_c14_g1::TRINITY_DN16471_c14_g1_i3::g.68132::m.68132	0	712	XP_018831158.1	conserved oligomeric Golgi complex subunit 3	Juglans regia	XP_016651945.1

TRINITY_DN15705_c0_g3::TRINITY_DN15705_c0_g3_i5::g.56096::m.56096	1,39E-52	171	XP_018840945.1	Golgi to ER traffic protein 4 homolog	Juglans regia	XP_008233370.1
TRINITY_DN14658_c2_g1::TRINITY_DN14658_c2_g1_i2::g.40152::m.40152	0	885	XP_018822003.1	probable serine protease EDA2	Juglans regia	OAY60835.1
TRINITY_DN16640_c0_g1::TRINITY_DN16640_c0_g1_i4::g.70902::m.70902	6,63E-138	397	XP_018840777.1	zinc finger CCCH domain-containing protein 12-like isoform X3	Juglans regia	XP_018840777.1
TRINITY_DN12745_c0_g1::TRINITY_DN12745_c0_g1_i6::g.15122::m.15122	7,85E-73	220	OAY50757.1	hypothetical protein MANES_05G160700	Manihot esculenta	OAY50756.1
TRINITY_DN13091_c0_g2::TRINITY_DN13091_c0_g2_i2::g.19654::m.19654	1,59E-93	279	XP_018841148.1	12-oxophytodienoate reductase 2-like	Juglans regia	ONI35666.1
TRINITY_DN19627_c1_g1::TRINITY_DN19627_c1_g1_i2::g.121157::m.121157	0	1407	XP_018817804.1	leucine--tRNA ligase, cytoplasmic isoform X1	Juglans regia	XP_018817805.1
TRINITY_DN10469_c0_g1::TRINITY_DN10469_c0_g1_i1::g.4851::m.4851	3,63E-98	283	XP_018832728.1	protein FAM136A-like	Juglans regia	XP_018840436.1
TRINITY_DN16987_c2_g1::TRINITY_DN16987_c2_g1_i9::g.76589::m.76589	0	620	XP_018824727.1	uncharacterized protein LOC108994089	Juglans regia	XP_018842839.1
TRINITY_DN19240_c1_g1::TRINITY_DN19240_c1_g1_i5::g.114383::m.114383	8,91E-84	258	XP_018827562.1	UDP-N-acetylglucosamine diphosphorylase 2 isoform X1	Juglans regia	XP_018827564.1
TRINITY_DN14334_c2_g6::TRINITY_DN14334_c2_g6_i1::g.35159::m.35159	2,77E-29	108	XP_009357663.1	uncharacterized protein LOC103948371	Pyrus x bretschneideri	ONI24174.1
TRINITY_DN18647_c1_g1::TRINITY_DN18647_c1_g1_i1::g.103820::m.103820	1,37E-169	475	XP_018849036.1	ATP-dependent Clp protease proteolytic subunit 6, chloroplastic	Juglans regia	XP_008237184.1
TRINITY_DN16308_c0_g1::TRINITY_DN16308_c0_g1_i5::g.65986::m.65986	6,74E-131	376	XP_018839810.1	S-adenosylmethionine carrier 1, chloroplastic/mitochondrial isoform X2	Juglans regia	XP_018839807.1
TRINITY_DN16705_c7_g1::TRINITY_DN16705_c7_g1_i5::g.72000::m.72000	0	1532	XP_018826088.1	isoleucine--tRNA ligase, chloroplastic/mitochondrial	Juglans regia	XP_008223184.1
TRINITY_DN10617_c0_g1::TRINITY_DN10617_c0_g1_i2::g.5120::m.5120	2,22E-124	352	XP_018838369.1	DNA replication complex GINS protein PSF3-like	Juglans regia	GAU37013.1
TRINITY_DN13025_c0_g1::TRINITY_DN13025_c0_g1_i1::g.18736::m.18736	0	759	XP_018824599.1	adenylyltransferase and sulfurtransferase MOCS3	Juglans regia	OAY55162.1
TRINITY_DN16744_c0_g2::TRINITY_DN16744_c0_g2_i2::g.72603::m.72603	5,52E-174	488	XP_018806535.1	syntaxin-81	Juglans regia	XP_018806536.1
TRINITY_DN15178_c0_g1::TRINITY_DN15178_c0_g1_i16::g.47873::m.47873	0	559	XP_018818948.1	protein argonaute 4-like isoform X2	Juglans regia	XP_018818945.1
TRINITY_DN16466_c0_g1::TRINITY_DN16466_c0_g1_i6::g.67994::m.67994	0	653	XP_018809719.1	protein EARLY-RESPONSIVE TO DEHYDRATION 7, chloroplastic-like	Juglans regia	XP_018829645.1
TRINITY_DN18466_c3_g1::TRINITY_DN18466_c3_g1_i19::g.101050::m.101050						
TRINITY_DN13825_c0_g1::TRINITY_DN13825_c0_g1_i3::g.28848::m.28848	1,45E-91	269	XP_018817591.1	aldo-keto reductase family 4 member C9-like	Juglans regia	OAY43567.1
TRINITY_DN12167_c0_g1::TRINITY_DN12167_c0_g1_i7::g.10902::m.10902	2,29E-169	471	XP_018842205.1	ER membrane protein complex subunit 3-like	Juglans regia	XP_018809559.1
TRINITY_DN18952_c2_g1::TRINITY_DN18952_c2_g1_i9::g.109479::m.109479	6,65E-180	516	XP_018846613.1	cytochrome P450 CYP82D47-like	Juglans regia	ONI32807.1

TRINITY_DN13110_c0_g1::TRINITY_DN13110_c0_g1_i3::g.20012::m.20012	5,44E-103	300	XP_018831224.1	replication protein A 32 kDa subunit B isoform X1	Juglans regia	XP_018831225.1
TRINITY_DN14898_c0_g2::TRINITY_DN14898_c0_g2_i1::g.43887::m.43887	5,42E-124	359	OAY39080.1	hypothetical protein MANES_10G065700	Manihot esculenta	ONH91559.1
TRINITY_DN14096_c0_g2::TRINITY_DN14096_c0_g2_i2::g.32310::m.32310	0	728	XP_018820061.1	3-hydroxyisobutyryl-CoA hydrolase-like protein 1, mitochondrial	Juglans regia	ONI22521.1
TRINITY_DN15203_c1_g1::TRINITY_DN15203_c1_g1_i19::g.48562::m.48562	1,22E-72	227	XP_018840818.1	uncharacterized protein LOC109006107	Juglans regia	ONI15943.1
TRINITY_DN18497_c0_g1::TRINITY_DN18497_c0_g1_i7::g.101435::m.101435	1,37E-74	228	XP_009335066.1	probable pyridoxal 5'-phosphate synthase subunit PDX2 isoform X1	Pyrus x bretschneideri	XP_008225516.1
TRINITY_DN16464_c0_g1::TRINITY_DN16464_c0_g1_i9::g.67881::m.67881	8,82E-144	426	XP_018856777.1	auxilin-related protein 2-like isoform X1	Juglans regia	XP_018856778.1
TRINITY_DN10374_c0_g1::TRINITY_DN10374_c0_g1_i1::g.4693::m.4693	0	803	XP_018850329.1	uncharacterized protein LOC109012887 isoform X3	Juglans regia	XP_018850309.1
TRINITY_DN16131_c0_g1::TRINITY_DN16131_c0_g1_i1::g.62590::m.62590	0	974	XP_018831162.1	uncharacterized protein LOC108998880	Juglans regia	XP_008231341.1
TRINITY_DN13858_c6_g1::TRINITY_DN13858_c6_g1_i3::g.29437::m.29437	7,54E-115	337	XP_018807257.1	calcium-transporting ATPase 8, plasma membrane-type-like	Juglans regia	XP_018807258.1
TRINITY_DN17229_c1_g1::TRINITY_DN17229_c1_g1_i16::g.80496::m.80496	1,90E-131	372	XP_018807308.1	probable glutathione S-transferase	Juglans regia	XP_008382602.1
TRINITY_DN16551_c0_g1::TRINITY_DN16551_c0_g1_i1::g.69240::m.69240	1,04E-154	438	XP_018849757.1	fruit protein pKIWI502-like	Juglans regia	OAY31413.1
TRINITY_DN14041_c3_g1::TRINITY_DN14041_c3_g1_i2::g.31810::m.31810	5,59E-175	496	XP_018835707.1	transcription factor RF2b-like	Juglans regia	XP_018828447.1
TRINITY_DN12986_c2_g1::TRINITY_DN12986_c2_g1_i7::g.17676::m.17676	0	1441	XP_018834443.1	probable galactinol--sucrose galactosyltransferase 2	Juglans regia	XP_018834445.1
TRINITY_DN19621_c4_g1::TRINITY_DN19621_c4_g1_i2::g.120970::m.120970	2,65E-126	369	XP_018830401.1	palmitoyl-monogalactosyldiacylglycerol delta-7 desaturase, chloroplastic-like	Juglans regia	ONI16238.1
TRINITY_DN10293_c0_g1::TRINITY_DN10293_c0_g1_i1::g.4492::m.4492	6,27E-153	432	XP_018845106.1	uncharacterized protein LOC109009176	Juglans regia	KHN37697.1
TRINITY_DN14175_c1_g1::TRINITY_DN14175_c1_g1_i3::g.33680::m.33680	0	622	XP_018845916.1	uncharacterized protein LOC109009760	Juglans regia	XP_018845070.1
TRINITY_DN15828_c0_g1::TRINITY_DN15828_c0_g1_i4::g.57452::m.57452	2,74E-94	273	XP_018816641.1	centromere protein V	Juglans regia	XP_018816642.1
TRINITY_DN17792_c0_g5::TRINITY_DN17792_c0_g5_i3::g.89751::m.89751	4,12E-99	295	XP_018844982.1	PI-PLC X domain-containing protein At5g67130	Juglans regia	KDP31946.1
TRINITY_DN12837_c2_g2::TRINITY_DN12837_c2_g2_i1::g.16572::m.16572	1,67E-101	304	XP_018847365.1	probable polygalacturonase	Juglans regia	XP_018847358.1
TRINITY_DN17217_c1_g1::TRINITY_DN17217_c1_g1_i9::g.80247::m.80247	1,78E-98	291	XP_018835586.1	uncharacterized protein LOC109002344 isoform X2	Juglans regia	XP_018835588.1
TRINITY_DN14939_c1_g3::TRINITY_DN14939_c1_g3_i3::g.44686::m.44686	0	557	XP_018851554.1	probable pinoresinol-lariciresinol reductase 3 isoform X1	Juglans regia	XP_018851555.1
TRINITY_DN16528_c1_g1::TRINITY_DN16528_c1_g1_i4::g.69093::m.69093	4,40E-131	394	XP_018819501.1	beta-galactosidase 8	Juglans regia	ONI00641.1

TRINITY_DN17896_c3_g1::TRINITY_DN17896_c3_g1_i3::g.91440::m.91440	3,75E-111	319	KDP38526.1	hypothetical protein JCGZ_04451	Jatropha curcas	XP_012071890.1
TRINITY_DN13512_c0_g2::TRINITY_DN13512_c0_g2_i1::g.24706::m.24706	7,41E-73	220	KDP45917.1	hypothetical protein JCGZ_15477	Jatropha curcas	XP_012076020.1
TRINITY_DN18396_c2_g1::TRINITY_DN18396_c2_g1_i1::g.99882::m.99882	8,09E-56	185	XP_018849050.1	polyol transporter 5-like	Juglans regia	XP_018836941.1
TRINITY_DN14316_c0_g1::TRINITY_DN14316_c0_g1_i5::g.35352::m.35352	4,12E-44	147	XP_018842596.1	tobamovirus multiplication protein 2A-like, partial	Juglans regia	XP_018838258.1
TRINITY_DN19110_c2_g1::TRINITY_DN19110_c2_g1_i2::g.112351::m.112351	3,50E-12	70,5	XP_018848181.1	eukaryotic translation initiation factor 5B	Juglans regia	XP_018848182.1
TRINITY_DN19639_c3_g1::TRINITY_DN19639_c3_g1_i7::g.121291::m.121291	4,29E-64	198	XP_018814411.1	uncharacterized protein LOC108986289	Juglans regia	KHN40629.1
TRINITY_DN14977_c0_g1::TRINITY_DN14977_c0_g1_i14::g.45080::m.45080	1,54E-109	317	XP_017192425.1	phytochrome-associated serine/threonine-protein phosphatase-like isoform X2	Malus domestica	AES60048.1
TRINITY_DN19335_c0_g3::TRINITY_DN19335_c0_g3_i4::g.116290::m.116290	4,39E-122	351	XP_018841149.1	pectinesterase 31 isoform X1	Juglans regia	XP_008341600.1
TRINITY_DN17394_c0_g1::TRINITY_DN17394_c0_g1_i5::g.83048::m.83048	0	531	XP_018848619.1	protein FLX-like 1	Juglans regia	XP_018813162.1
TRINITY_DN15312_c1_g1::TRINITY_DN15312_c1_g1_i7::g.50104::m.50104	7,17E-58	200	XP_018851910.1	phospholipase A I-like isoform X2	Juglans regia	XP_018851909.1
TRINITY_DN14520_c0_g2::TRINITY_DN14520_c0_g2_i5::g.38465::m.38465	0	1427	KDP41183.1	hypothetical protein JCGZ_15590	Jatropha curcas	XP_012067623.1
TRINITY_DN19082_c3_g2::TRINITY_DN19082_c3_g2_i2::g.111602::m.111602	8,17E-151	441	XP_018825221.1	protein NRT1/ PTR FAMILY 7.1-like isoform X1	Juglans regia	XP_018825222.1
TRINITY_DN17990_c1_g1::TRINITY_DN17990_c1_g1_i2::g.93320::m.93320	7,13E-114	332	XP_018826263.1	BAG family molecular chaperone regulator 4	Juglans regia	XP_018825895.1
TRINITY_DN10955_c0_g1::TRINITY_DN10955_c0_g1_i1::g.5913::m.5913	1,59E-69	207	XP_018807121.1	signal recognition particle 9 kDa protein	Juglans regia	XP_016187179.1
TRINITY_DN10864_c0_g1::TRINITY_DN10864_c0_g1_i1::g.5678::m.5678	0	612	XP_018846091.1	pentatricopeptide repeat-containing protein At1g61870, mitochondrial-like	Juglans regia	XP_018810112.1
TRINITY_DN18372_c2_g6::TRINITY_DN18372_c2_g6_i1::g.99517::m.99517	8,87E-135	395	XP_018827694.1	phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and protein-tyrosine-phosphatase PTEN2A-like	Juglans regia	XP_018827695.1
TRINITY_DN17198_c0_g1::TRINITY_DN17198_c0_g1_i4::g.79878::m.79878	0	708	XP_018847416.1	basic 7S globulin-like	Juglans regia	XP_014512687.1
TRINITY_DN19333_c1_g1::TRINITY_DN19333_c1_g1_i1::g.116168::m.116168	0	1215	XP_018806296.1	probable acyl-activating enzyme 17, peroxisomal isoform X2	Juglans regia	XP_018806295.1
TRINITY_DN13608_c0_g1::TRINITY_DN13608_c0_g1_i3::g.26161::m.26161	0	584	XP_018849418.1	uncharacterized protein LOC109012311	Juglans regia	XP_018849419.1
TRINITY_DN17268_c0_g1::TRINITY_DN17268_c0_g1_i4::g.80463::m.80463	0	712	XP_008222441.1	TBC1 domain family member 22B-like	Prunus mume	XP_018806881.1
TRINITY_DN11329_c0_g1::TRINITY_DN11329_c0_g1_i1::g.6996::m.6996	0	508	XP_018823732.1	uncharacterized protein At2g29880-like	Juglans regia	OAY37362.1

TRINITY_DN17556_c3_g1::TRINITY_DN17556_c3_g1_i1::g.85912::m.85912	3,96E-66	202	KRH69486.1	hypothetical protein GLYMA_02G030900	Glycine max	KRH74669.1
TRINITY_DN14486_c0_g4::TRINITY_DN14486_c0_g4_i1::g.37922::m.37922						
TRINITY_DN19016_c1_g5::TRINITY_DN19016_c1_g5_i1::g.110613::m.110613	8,53E-61	193	XP_018813512.1	farnesyl pyrophosphate synthase 1-like	Juglans regia	XP_018813518.1
TRINITY_DN19612_c1_g2::TRINITY_DN19612_c1_g2_i7::g.120818::m.120818	2,81E-103	314	XP_018809366.1	probable methyltransferase PMT18	Juglans regia	XP_018844923.1
TRINITY_DN13825_c0_g2::TRINITY_DN13825_c0_g2_i4::g.28851::m.28851	7,11E-90	268	AFK48248.1	unknown	Lotus japonicus	XP_019420805.1
TRINITY_DN10767_c0_g1::TRINITY_DN10767_c0_g1_i1::g.5469::m.5469	0	652	XP_018838226.1	probable low-specificity L-threonine aldolase 1	Juglans regia	XP_018838227.1
TRINITY_DN14408_c0_g1::TRINITY_DN14408_c0_g1_i2::g.36628::m.36628	4,90E-82	255	XP_018840883.1	protein transport Sec1a-like	Juglans regia	XP_016186669.1
TRINITY_DN16867_c0_g1::TRINITY_DN16867_c0_g1_i8::g.74659::m.74659	0	591	OAY50624.1	hypothetical protein MANES_05G151200	Manihot esculenta	OAY50625.1
TRINITY_DN12184_c0_g1::TRINITY_DN12184_c0_g1_i1::g.10535::m.10535	0	608	XP_018819584.1	AUGMIN subunit 7	Juglans regia	XP_018819585.1
TRINITY_DN19255_c4_g1::TRINITY_DN19255_c4_g1_i5::g.114861::m.114861	4,50E-78	254	XP_018819113.1	alpha-amylase 3, chloroplastic-like	Juglans regia	XP_018812497.1
TRINITY_DN18745_c0_g4::TRINITY_DN18745_c0_g4_i1::g.105401::m.105401	0	726	XP_018843925.1	LOW QUALITY PROTEIN: phosphomevalonate kinase	Juglans regia	KDP21278.1
TRINITY_DN15579_c2_g1::TRINITY_DN15579_c2_g1_i2::g.54035::m.54035	1,78E-68	215	XP_016648983.1	probable polygalacturonase	Prunus mume	XP_018847365.1
TRINITY_DN19014_c2_g2::TRINITY_DN19014_c2_g2_i15::g.110588::m.110588	0	1648	XP_018822521.1	phosphoenolpyruvate carboxylase, housekeeping isozyme-like	Juglans regia	XP_018849376.1
TRINITY_DN13959_c0_g2::TRINITY_DN13959_c0_g2_i7::g.30593::m.30593	0	769	XP_018838404.1	importin-9 isoform X1	Juglans regia	XP_018838405.1
TRINITY_DN17096_c2_g1::TRINITY_DN17096_c2_g1_i4::g.78253::m.78253	0	775	XP_018845117.1	COP9 signalosome complex subunit 3 isoform X1	Juglans regia	XP_018845118.1
TRINITY_DN15860_c0_g1::TRINITY_DN15860_c0_g1_i3::g.57901::m.57901	9,76E-178	510	XP_018849435.1	protein NRT1/ PTR FAMILY 5.4-like	Juglans regia	ONI20821.1
TRINITY_DN12503_c2_g1::TRINITY_DN12503_c2_g1_i3::g.13440::m.13440	3,57E-77	229	XP_009347705.1	probable glutathione peroxidase 5 isoform X2	Pyrus x bretschneideri	XP_018501031.1
TRINITY_DN14356_c4_g1::TRINITY_DN14356_c4_g1_i9::g.35853::m.35853	2,15E-166	466	XP_018811873.1	peroxisome biogenesis protein 22-like isoform X1	Juglans regia	XP_018836339.1
TRINITY_DN14761_c1_g4::TRINITY_DN14761_c1_g4_i4::g.41839::m.41839	0	2033	XP_018849114.1	uncharacterized protein LOC109012094	Juglans regia	XP_008240391.1
TRINITY_DN16683_c2_g2::TRINITY_DN16683_c2_g2_i1::g.71583::m.71583	5,02E-51	170	XP_018848829.1	rhomboid-like protein 15	Juglans regia	XP_018851134.1
TRINITY_DN13437_c2_g2::TRINITY_DN13437_c2_g2_i2::g.23355::m.23355	5,63E-160	489	XP_018846195.1	uncharacterized protein LOC109009964	Juglans regia	XP_018819031.1
TRINITY_DN13537_c0_g1::TRINITY_DN13537_c0_g1_i2::g.25155::m.25155	1,55E-102	302	XP_018822955.1	uncharacterized protein LOC108992771	Juglans regia	ONI19571.1

TRINITY_DN13720_c0_g6::TRINITY_DN13720_c0_g6_i1::g.27649::m.27649	1,04E-126	366	XP_018836373.1	uncharacterized protein LOC109002903 isoform X1	Juglans regia	ONI32161.1
TRINITY_DN15113_c1_g1::TRINITY_DN15113_c1_g1_i9::g.47525::m.47525	1,63E-100	288	XP_018823137.1	ferredoxin-thioredoxin reductase catalytic chain, chloroplastic	Juglans regia	XP_008230669.1
TRINITY_DN18151_c1_g8::TRINITY_DN18151_c1_g8_i1::g.95937::m.95937	8,81E-61	193	XP_018806470.1	protein BOBBER 2-like	Juglans regia	XP_015934358.1
TRINITY_DN16542_c2_g2::TRINITY_DN16542_c2_g2_i16::g.69553::m.69553	0	1903	XP_018807838.1	uncharacterized protein LOC108981175	Juglans regia	XP_008235875.1
TRINITY_DN17965_c0_g2::TRINITY_DN17965_c0_g2_i2::g.92668::m.92668	6,06E-85	258	XP_018846002.1	histidinol dehydrogenase, chloroplastic isoform X2	Juglans regia	XP_018846003.1
TRINITY_DN10320_c0_g1::TRINITY_DN10320_c0_g1_i1::g.4626::m.4626	5,91E-59	181	XP_018858854.1	auxin-repressed 12.5 kDa protein-like	Juglans regia	XP_018811601.1
TRINITY_DN19345_c3_g1::TRINITY_DN19345_c3_g1_i6::g.117087::m.117087	1,97E-25	102	XP_018829287.1	heparan-alpha-glucosaminide N-acetyltransferase isoform X1	Juglans regia	XP_018829289.1
TRINITY_DN18504_c0_g1::TRINITY_DN18504_c0_g1_i8::g.101692::m.101692	0	977	XP_018826310.1	peptide-N(4)-(N-acetyl-beta-glucosaminyl)asparagine amidase isoform X1	Juglans regia	XP_018826311.1
TRINITY_DN19069_c0_g1::TRINITY_DN19069_c0_g1_i4::g.111231::m.111231	4,56E-158	446	XP_018821010.1	protein FLX-like 3	Juglans regia	XP_018821011.1
TRINITY_DN15115_c0_g4::TRINITY_DN15115_c0_g4_i3::g.47102::m.47102	0	548	XP_018830763.1	bifunctional epoxide hydrolase 2-like	Juglans regia	XP_018812192.1
TRINITY_DN18049_c1_g1::TRINITY_DN18049_c1_g1_i7::g.94346::m.94346	0	813	XP_018831178.1	26S proteasome regulatory subunit 4 homolog B-like	Juglans regia	XP_012065309.1
TRINITY_DN16571_c0_g1::TRINITY_DN16571_c0_g1_i1::g.69820::m.69820	4,96E-138	394	XP_018839156.1	nuclear pore complex protein NUP35	Juglans regia	XP_018843261.1
TRINITY_DN17401_c1_g1::TRINITY_DN17401_c1_g1_i4::g.83099::m.83099	0	600	XP_008234506.1	methionine aminopeptidase 2B-like	Prunus mume	XP_008234507.1
TRINITY_DN11104_c0_g1::TRINITY_DN11104_c0_g1_i1::g.6331::m.6331	0	1097	XP_018815365.1	probable alkaline/neutral invertase B	Juglans regia	XP_018815366.1
TRINITY_DN11331_c0_g1::TRINITY_DN11331_c0_g1_i1::g.7013::m.7013	2,70E-151	430	OAY37035.1	hypothetical protein MANES_11G069800	Manihot esculenta	XP_008228852.1
TRINITY_DN19806_c0_g1::TRINITY_DN19806_c0_g1_i11::g.123914::m.123914	0	550	XP_018835905.1	protein MON2 homolog isoform X1	Juglans regia	XP_018835907.1
TRINITY_DN14324_c0_g1::TRINITY_DN14324_c0_g1_i3::g.35430::m.35430	0	692	XP_018823621.1	lys-63-specific deubiquitinase BRCC36-like isoform X1	Juglans regia	XP_018827792.1
TRINITY_DN19942_c2_g1::TRINITY_DN19942_c2_g1_i4::g.126324::m.126324	1,46E-97	298	XP_018815844.1	E3 ubiquitin protein ligase RIN2-like	Juglans regia	XP_018851934.1
TRINITY_DN16925_c0_g1::TRINITY_DN16925_c0_g1_i1::g.75769::m.75769	0	760	XP_018824318.1	ubiquitin carboxyl-terminal hydrolase 9-like	Juglans regia	XP_018817088.1
TRINITY_DN19895_c1_g1::TRINITY_DN19895_c1_g1_i3::g.125573::m.125573	0	581	XP_018845718.1	probable ADP-ribosylation factor GTPase-activating protein AGD14 isoform X2	Juglans regia	XP_018845717.1
TRINITY_DN17938_c1_g2::TRINITY_DN17938_c1_g2_i1::g.92333::m.92333	0	594	XP_018829254.1	glutamate--cysteine ligase, chloroplastic	Juglans regia	XP_018829255.1
TRINITY_DN19979_c5_g4::TRINITY_DN19979_c5_g4_i5::g.127016::m.127016	2,25E-125	362	XP_018854242.1	probable aldo-keto reductase 1	Juglans regia	XP_018826312.1

TRINITY_DN17846_c4_g1::TRINITY_DN17846_c4_g1_i2::g.90658::m.90658	0	514	XP_018845405.1	casein kinase 1-like protein 1	Juglans regia	XP_018817582.1
TRINITY_DN17717_c2_g1::TRINITY_DN17717_c2_g1_i3::g.88728::m.88728	1,24E-34	123	XP_018822663.1	UDP-galactose transporter 2-like isoform X3	Juglans regia	XP_018822662.1
TRINITY_DN14801_c0_g1::TRINITY_DN14801_c0_g1_i4::g.42400::m.42400	0	557	XP_018846155.1	vacuolar protein sorting-associated protein 51 homolog	Juglans regia	ONI05445.1
TRINITY_DN14703_c2_g1::TRINITY_DN14703_c2_g1_i4::g.41069::m.41069	1,22E-139	398	XP_018839330.1	aminoacyl tRNA synthase complex-interacting multifunctional protein 1	Juglans regia	XP_004513672.1
TRINITY_DN11195_c0_g1::TRINITY_DN11195_c0_g1_i1::g.6571::m.6571	0	1720	XP_018849399.1	uncharacterized protein LOC109012301	Juglans regia	XP_018849400.1
TRINITY_DN10654_c0_g1::TRINITY_DN10654_c0_g1_i1::g.5213::m.5213	2,46E-127	363	XP_018807078.1	uncharacterized protein At2g39795, mitochondrial	Juglans regia	ONI21593.1
TRINITY_DN17314_c1_g1::TRINITY_DN17314_c1_g1_i1::g.81914::m.81914	3,04E-79	246	XP_018851869.1	diacylglycerol kinase 5-like	Juglans regia	KRH55430.1
TRINITY_DN17135_c0_g1::TRINITY_DN17135_c0_g1_i6::g.79192::m.79192	0	634	XP_018807500.1	probable Ufm1-specific protease isoform X2	Juglans regia	XP_018807499.1
TRINITY_DN18873_c0_g1::TRINITY_DN18873_c0_g1_i7::g.107966::m.107966	0	964	XP_018822797.1	phosphoribosylaminoimidazole carboxylase, chloroplastic isoform X1	Juglans regia	OAY28979.1
TRINITY_DN15119_c0_g1::TRINITY_DN15119_c0_g1_i1::g.47105::m.47105	0	764	XP_018844840.1	chorismate synthase, chloroplastic-like	Juglans regia	XP_018828862.1
TRINITY_DN19022_c0_g1::TRINITY_DN19022_c0_g1_i10::g.110657::m.110657	0	518	XP_018809736.1	isocitrate dehydrogenase [NAD] regulatory subunit 1, mitochondrial	Juglans regia	OAY57636.1
TRINITY_DN17160_c1_g3::TRINITY_DN17160_c1_g3_i2::g.79397::m.79397	0	896	XP_018834194.1	uncharacterized protein slp1	Juglans regia	XP_018834195.1
TRINITY_DN13640_c0_g3::TRINITY_DN13640_c0_g3_i9::g.26621::m.26621	0	723	XP_018818703.1	cycloartenol synthase 2	Juglans regia	OIW03083.1
TRINITY_DN19493_c1_g1::TRINITY_DN19493_c1_g1_i9::g.118079::m.118079	1,78E-150	428	XP_018829509.1	1-aminocyclopropane-1-carboxylate oxidase homolog 4-like	Juglans regia	XP_018829510.1
TRINITY_DN19823_c3_g2::TRINITY_DN19823_c3_g2_i6::g.124233::m.124233	0	1438	XP_018832246.1	splicing factor 3B subunit 1, partial	Juglans regia	ONH90625.1
TRINITY_DN16244_c0_g2::TRINITY_DN16244_c0_g2_i4::g.64523::m.64523	1,93E-90	270	KRH63709.1	hypothetical protein GLYMA_04G1923001, partial	Glycine max	XP_008337074.1
TRINITY_DN13878_c2_g2::TRINITY_DN13878_c2_g2_i3::g.29757::m.29757	2,48E-44	148	XP_018837336.1	14 kDa zinc-binding protein	Juglans regia	ONI11561.1
TRINITY_DN13194_c4_g1::TRINITY_DN13194_c4_g1_i4::g.20971::m.20971	5,70E-70	211	XP_018833650.1	30S ribosomal protein S16-2, chloroplastic/mitochondrial	Juglans regia	XP_016651601.1
TRINITY_DN13636_c0_g1::TRINITY_DN13636_c0_g1_i5::g.26555::m.26555	2,29E-107	311	XP_018827848.1	tropinone reductase-like 3	Juglans regia	XP_009357508.1
TRINITY_DN17968_c0_g2::TRINITY_DN17968_c0_g2_i1::g.92847::m.92847	0	2322	XP_018822813.1	ARF guanine-nucleotide exchange factor GNL2	Juglans regia	XP_008242641.1
TRINITY_DN10935_c0_g1::TRINITY_DN10935_c0_g1_i5::g.5847::m.5847	7,17E-46	147	XP_018813206.1	uncharacterized protein LOC108985380	Juglans regia	XP_008394294.1
TRINITY_DN17259_c0_g1::TRINITY_DN17259_c0_g1_i9::g.80974::m.80974	4,74E-141	398	XP_018849009.1	syntaxin-52-like isoform X2	Juglans regia	XP_018849010.1

TRINITY_DN14202_c2_g1::TRINITY_DN14202_c2_g1_i3::g.33869::m.33869	6,01E-69	212	XP_018836821.1	vesicle transport v-SNARE 12	Juglans regia	XP_018836822.1
TRINITY_DN11729_c1_g1::TRINITY_DN11729_c1_g1_i5::g.8590::m.8590	3,63E-82	241	XP_018831693.1	39S ribosomal protein L47, mitochondrial	Juglans regia	XP_014495313.1
TRINITY_DN16787_c1_g2::TRINITY_DN16787_c1_g2_i3::g.73271::m.73271	0	578	XP_008229214.1	probable fructokinase-6, chloroplastic	Prunus mume	XP_018860003.1
TRINITY_DN15603_c1_g3::TRINITY_DN15603_c1_g3_i1::g.54361::m.54361	1,31E-79	234	XP_018819607.1	prefoldin subunit 6-like	Juglans regia	OAY36902.1
TRINITY_DN13221_c3_g1::TRINITY_DN13221_c3_g1_i2::g.21212::m.21212	3,24E-134	383	XP_018817492.1	probable aldo-keto reductase 1, partial	Juglans regia	XP_018837027.1
TRINITY_DN10855_c0_g2::TRINITY_DN10855_c0_g2_i3::g.5689::m.5689	9,68E-48	155	XP_018830706.1	CDGSH iron-sulfur domain-containing protein NEET	Juglans regia	XP_008234341.1
TRINITY_DN47853_c0_g1::TRINITY_DN47853_c0_g1_i1::g.132570::m.132570	4,08E-79	234	KOM56098.1	hypothetical protein LR48_Vigan10g199000	Vigna angularis	KOM56098.1
TRINITY_DN17028_c2_g2::TRINITY_DN17028_c2_g2_i3::g.77279::m.77279	1,82E-118	340	XP_018829348.1	uncharacterized protein At4g14100-like isoform X1	Juglans regia	XP_018841627.1
TRINITY_DN17028_c2_g2::TRINITY_DN17028_c2_g2_i3::g.77278::m.77278	0	1595	XP_018841626.1	uncharacterized protein LOC109006713	Juglans regia	OAY43812.1
TRINITY_DN16271_c1_g1::TRINITY_DN16271_c1_g1_i4::g.64790::m.64790	2,74E-60	200	XP_018834169.1	CLP protease regulatory subunit CLPX1, mitochondrial-like	Juglans regia	XP_018834959.1
TRINITY_DN16125_c0_g1::TRINITY_DN16125_c0_g1_i5::g.62472::m.62472	2,71E-95	279	XP_018833227.1	HD domain-containing protein 2 isoform X1	Juglans regia	KDP38749.1
TRINITY_DN13227_c0_g6::TRINITY_DN13227_c0_g6_i1::g.21293::m.21293	3,30E-67	202	XP_018836608.1	macrophage migration inhibitory factor homolog	Juglans regia	OAY46685.1
TRINITY_DN19999_c7_g1::TRINITY_DN19999_c7_g1_i2::g.126443::m.126443	1,45E-60	187	XP_018837336.1	14 kDa zinc-binding protein	Juglans regia	XP_019434854.1
TRINITY_DN18074_c1_g1::TRINITY_DN18074_c1_g1_i2::g.94688::m.94688	0	941	XP_018812875.1	probable clathrin assembly protein At4g32285	Juglans regia	XP_018822255.1
TRINITY_DN15518_c0_g1::TRINITY_DN15518_c0_g1_i2::g.53176::m.53176	0	2582	XP_018841155.1	ARF guanine-nucleotide exchange factor GNOM-like	Juglans regia	XP_018813978.1
TRINITY_DN14467_c3_g1::TRINITY_DN14467_c3_g1_i7::g.37643::m.37643	0	750	XP_018820274.1	hydroxymethylglutaryl-CoA synthase-like	Juglans regia	XP_018820512.1
TRINITY_DN12438_c0_g2::TRINITY_DN12438_c0_g2_i1::g.12882::m.12882	7,38E-71	217	XP_018837090.1	uncharacterized protein LOC109003431 isoform X1	Juglans regia	ONI28753.1
TRINITY_DN12528_c1_g2::TRINITY_DN12528_c1_g2_i1::g.13492::m.13492	2,19E-153	436	XP_018812229.1	uncharacterized protein LOC108984656	Juglans regia	OAY58206.1
TRINITY_DN18017_c0_g1::TRINITY_DN18017_c0_g1_i4::g.93738::m.93738	6,21E-148	438	XP_018835088.1	polyadenylate-binding protein-interacting protein 3-like isoform X2	Juglans regia	XP_018835089.1
TRINITY_DN13524_c0_g1::TRINITY_DN13524_c0_g1_i8::g.24870::m.24870	1,97E-79	257	XP_018857854.1	ubiquitin carboxyl-terminal hydrolase 13-like	Juglans regia	XP_018852065.1
TRINITY_DN15030_c2_g10::TRINITY_DN15030_c2_g10_i10::g.46047::m.46047	0	1557	XP_018825490.1	protein VACUOLELESS1	Juglans regia	KRG98955.1
TRINITY_DN14724_c2_g3::TRINITY_DN14724_c2_g3_i6::g.41251::m.41251	0	609	XP_018824151.1	CBS domain-containing protein CBSX6	Juglans regia	XP_015962149.1

TRINITY_DN9836_c0_g1::TRINITY_DN9836_c0_g1_i2::g.3964::m.3964	9,19E-82	241	XP_018827889.1	eukaryotic translation initiation factor 1A	Juglans regia	XP_007135187.1
TRINITY_DN18459_c3_g1::TRINITY_DN18459_c3_g1_i2::g.100697::m.100697	0	1620	XP_018844089.1	DNA gyrase subunit A, chloroplastic/mitochondrial isoform X1	Juglans regia	XP_018844090.1
TRINITY_DN14119_c2_g1::TRINITY_DN14119_c2_g1_i7::g.32525::m.32525	6,49E-89	265	KRH52793.1	hypothetical protein GLYMA_06G088000	Glycine max	KHN10178.1
TRINITY_DN17875_c1_g1::TRINITY_DN17875_c1_g1_i11::g.91219::m.91219	2,89E-47	164	ONH93446.1	hypothetical protein PRUPE_8G233000	Prunus persica	XP_020426420.1
TRINITY_DN10295_c0_g1::TRINITY_DN10295_c0_g1_i2::g.4577::m.4577	6,91E-124	351	XP_018822169.1	gamma-glutamylcyclotransferase 2-3-like	Juglans regia	ONI34811.1
TRINITY_DN15634_c1_g2::TRINITY_DN15634_c1_g2_i1::g.54735::m.54735	0	976	XP_018841694.1	myosin heavy chain, non-muscle isoform X2	Juglans regia	XP_018841693.1
TRINITY_DN14193_c0_g1::TRINITY_DN14193_c0_g1_i4::g.33482::m.33482	1,11E-69	217	XP_018810280.1	interferon-related developmental regulator 1 isoform X3	Juglans regia	XP_018810278.1
TRINITY_DN18060_c0_g2::TRINITY_DN18060_c0_g2_i3::g.94415::m.94415	2,28E-106	310	KDP29395.1	hypothetical protein JCGZ_18316	Jatropha curcas	XP_012082078.1
TRINITY_DN13421_c0_g4::TRINITY_DN13421_c0_g4_i1::g.23529::m.23529	0	1767	XP_018805749.1	uncharacterized protein LOC108979512	Juglans regia	XP_018845508.1
TRINITY_DN15203_c1_g4::TRINITY_DN15203_c1_g4_i2::g.48560::m.48560	0	750	XP_018841198.1	UDP-glucuronic acid decarboxylase 1	Juglans regia	XP_009377117.1
TRINITY_DN15462_c1_g3::TRINITY_DN15462_c1_g3_i2::g.52234::m.52234	1,24E-45	165	XP_018805377.1	uncharacterized protein LOC108979207	Juglans regia	
TRINITY_DN17163_c2_g2::TRINITY_DN17163_c2_g2_i2::g.79515::m.79515	5,34E-77	232	KYP35787.1	Decaprenyl-diphosphate synthase subunit 1	Cajanus cajan	XP_006600931.1
TRINITY_DN14323_c3_g1::TRINITY_DN14323_c3_g1_i1::g.35598::m.35598	7,21E-88	267	XP_018844889.1	ruvB-like protein 1 isoform X1	Juglans regia	XP_018844890.1
TRINITY_DN17612_c1_g4::TRINITY_DN17612_c1_g4_i2::g.87038::m.87038	0	1021	XP_018824311.1	importin subunit beta-1-like	Juglans regia	XP_018835204.1
TRINITY_DN17010_c0_g1::TRINITY_DN17010_c0_g1_i4::g.76944::m.76944	0	2299	AES59623.2	DNA-directed RNA polymerase subunit beta	Medicago truncatula	XP_003589372.2
TRINITY_DN14661_c1_g1::TRINITY_DN14661_c1_g1_i2::g.40114::m.40114	9,92E-64	198	XP_018811471.1	probable phosphopantothenoylcysteine decarboxylase	Juglans regia	XP_018811472.1
TRINITY_DN19036_c0_g1::TRINITY_DN19036_c0_g1_i4::g.110800::m.110800	1,26E-95	286	XP_018827794.1	leucine-rich repeat extensin-like protein 5	Juglans regia	OAY39225.1
TRINITY_DN19720_c2_g1::TRINITY_DN19720_c2_g1_i1::g.122728::m.122728	1,04E-43	156	XP_018835461.1	potassium transporter 5-like	Juglans regia	AJA36505.1
TRINITY_DN16319_c0_g6::TRINITY_DN16319_c0_g6_i2::g.65617::m.65617	0	598	XP_020211310.1	activating signal cointegrator 1 complex subunit 2 isoform X2	Cajanus cajan	KRH61401.1
TRINITY_DN17286_c0_g1::TRINITY_DN17286_c0_g1_i7::g.81470::m.81470	0	1898	XP_018834052.1	alpha-mannosidase At3g26720-like	Juglans regia	KDP41856.1
TRINITY_DN13871_c3_g1::TRINITY_DN13871_c3_g1_i4::g.29817::m.29817	0	1918	XP_018843784.1	trafficking protein particle complex II-specific subunit 120 homolog	Juglans regia	XP_009355810.1
TRINITY_DN13650_c9_g1::TRINITY_DN13650_c9_g1_i8::g.26115::m.26115	0	1131	XP_018832961.1	stromal processing peptidase, chloroplastic-like	Juglans regia	XP_008385802.1

TRINITY_DN18482_c1_g1::TRINITY_DN18482_c1_g1_i7::g.100962::m.100962	3,69E-71	218	XP_018821291.1	uncharacterized protein LOC108991486	Juglans regia	XP_008364609.1
TRINITY_DN14626_c0_g2::TRINITY_DN14626_c0_g2_i6::g.39817::m.39817	4,70E-93	278	XP_018852162.1	ankyrin-3	Juglans regia	XP_018808658.1
TRINITY_DN13249_c0_g1::TRINITY_DN13249_c0_g1_i1::g.21073::m.21073	4,51E-125	361	KDP36167.1	hypothetical protein JCGZ_08811	Jatropha curcas	XP_012074377.1
TRINITY_DN15130_c6_g1::TRINITY_DN15130_c6_g1_i3::g.47299::m.47299	8,51E-94	290	XP_018826728.1	uncharacterized protein LOC108995594	Juglans regia	XP_020237202.1
TRINITY_DN16370_c1_g1::TRINITY_DN16370_c1_g1_i6::g.66493::m.66493	0	801	XP_018841559.1	alpha-1,3-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase-like isoform X1	Juglans regia	XP_020237698.1
TRINITY_DN18821_c0_g1::TRINITY_DN18821_c0_g1_i8::g.106977::m.106977	0	823	XP_018856249.1	methylcrotonoyl-CoA carboxylase subunit alpha, mitochondrial isoform X2	Juglans regia	XP_018856242.1
TRINITY_DN2866_c0_g1::TRINITY_DN2866_c0_g1_i1::g.791::m.791	0	966	ONI24548.1	hypothetical protein PRUPE_2G246000	Prunus persica	XP_007220435.1
TRINITY_DN13724_c5_g4::TRINITY_DN13724_c5_g4_i1::g.27589::m.27589	0	688	ONI01623.1	hypothetical protein PRUPE_6G149500	Prunus persica	ONI01622.1
TRINITY_DN15832_c2_g1::TRINITY_DN15832_c2_g1_i7::g.57636::m.57636	0	641	XP_008240351.1	retinol dehydrogenase 11-like	Prunus mume	ONI09521.1
TRINITY_DN16212_c0_g2::TRINITY_DN16212_c0_g2_i5::g.63967::m.63967	1,64E-130	372	XP_018840728.1	desumoylating isopeptidase 1-like isoform X1	Juglans regia	XP_018821662.1
TRINITY_DN18690_c2_g2::TRINITY_DN18690_c2_g2_i1::g.104786::m.104786	0	771	XP_018826114.1	xyloglucan 6-xylosyltransferase 2-like	Juglans regia	XP_018825733.1
TRINITY_DN18367_c3_g7::TRINITY_DN18367_c3_g7_i1::g.99480::m.99480	9,39E-83	265	XP_018840248.1	cation/H(+) antiporter 19	Juglans regia	KRH19427.1
TRINITY_DN12696_c1_g1::TRINITY_DN12696_c1_g1_i6::g.15028::m.15028	1,17E-127	363	XP_018821066.1	uncharacterized protein LOC108991339	Juglans regia	XP_018821068.1
TRINITY_DN19683_c4_g2::TRINITY_DN19683_c4_g2_i1::g.121928::m.121928	0	557	XP_018848959.1	serine/threonine protein phosphatase 2A 57 kDa regulatory subunit B' beta isoform-like	Juglans regia	XP_018848960.1
TRINITY_DN16110_c4_g1::TRINITY_DN16110_c4_g1_i10::g.62321::m.62321	1,29E-157	456	XP_018814959.1	aldehyde oxidase GLOX1-like	Juglans regia	XP_018812716.1
TRINITY_DN19277_c4_g1::TRINITY_DN19277_c4_g1_i8::g.115170::m.115170	0	698	KDP20774.1	hypothetical protein JCGZ_21245	Jatropha curcas	XP_012091380.1
TRINITY_DN16461_c2_g1::TRINITY_DN16461_c2_g1_i2::g.67850::m.67850	1,70E-108	325	XP_018843899.1	4-coumarate--CoA ligase-like 6 isoform X1	Juglans regia	XP_018843900.1
TRINITY_DN16319_c0_g3::TRINITY_DN16319_c0_g3_i4::g.65613::m.65613	1,00E-29	118	XP_008220318.2	LOW QUALITY PROTEIN: uncharacterized protein LOC103320417	Prunus mume	XP_020416470.1
TRINITY_DN14881_c0_g1::TRINITY_DN14881_c0_g1_i4::g.43780::m.43780	0	856	XP_018829140.1	histone deacetylase 19-like	Juglans regia	XP_018829142.1
TRINITY_DN13265_c1_g2::TRINITY_DN13265_c1_g2_i3::g.21681::m.21681	6,16E-159	446	XP_018808599.1	14-3-3-like protein D	Juglans regia	BAT92355.1
TRINITY_DN14049_c0_g1::TRINITY_DN14049_c0_g1_i2::g.31233::m.31233	3,62E-124	361	XP_018849220.1	uncharacterized protein C57A10.07-like	Juglans regia	XP_018839870.1
TRINITY_DN13408_c0_g1::TRINITY_DN13408_c0_g1_i4::g.23389::m.23389	8,97E-174	482	XP_018812734.1	haloacid dehalogenase-like hydrolase domain-containing protein 3	Juglans regia	XP_018812735.1

TRINITY_DN19519_c0_g1::TRINITY_DN19519_c0_g1_i10::g.119145::m.119145	1,60E-123	364	XP_018840957.1	importin subunit alpha-9	Juglans regia	XP_008387618.1
TRINITY_DN16032_c0_g1::TRINITY_DN16032_c0_g1_i1::g.60895::m.60895	0	549	XP_018828122.1	glutelin type-B 5-like	Juglans regia	XP_018828123.1
TRINITY_DN18985_c1_g6::TRINITY_DN18985_c1_g6_i3::g.109896::m.109896	0	978	XP_018823882.1	synaptotagmin-1-like isoform X1	Juglans regia	XP_018841468.1
TRINITY_DN12405_c0_g1::TRINITY_DN12405_c0_g1_i1::g.12602::m.12602	0	809	XP_018806866.1	uncharacterized protein LOC108980411	Juglans regia	XP_008234511.1
TRINITY_DN19613_c2_g2::TRINITY_DN19613_c2_g2_i3::g.120856::m.120856	4,13E-116	368	OIW16247.1	hypothetical protein TanjilG_18962	Lupinus angustifolius	OIW16247.1
TRINITY_DN17036_c2_g3::TRINITY_DN17036_c2_g3_i3::g.77409::m.77409	7,40E-62	192	XP_018807851.1	dephospho-CoA kinase-like	Juglans regia	XP_008345240.1
TRINITY_DN18208_c0_g1::TRINITY_DN18208_c0_g1_i5::g.96946::m.96946	0	537	XP_018837640.1	probable tocopherol O-methyltransferase, chloroplastic isoform X4	Juglans regia	XP_018837639.1
TRINITY_DN18601_c0_g1::TRINITY_DN18601_c0_g1_i1::g.101595::m.101595	6,78E-60	195	XP_018844545.1	omega-amidase, chloroplastic	Juglans regia	XP_008377810.1
TRINITY_DN19149_c0_g1::TRINITY_DN19149_c0_g1_i16::g.113757::m.113757	1,04E-174	519	XP_018842267.1	uncharacterized protein LOC109007158 isoform X3	Juglans regia	XP_018842265.1
TRINITY_DN18875_c2_g5::TRINITY_DN18875_c2_g5_i2::g.107944::m.107944	8,79E-118	334	XP_018854702.1	actin	Juglans regia	XP_018858821.1
TRINITY_DN16082_c0_g1::TRINITY_DN16082_c0_g1_i2::g.61608::m.61608	0	920	XP_018807705.1	glucose-1-phosphate adenylyltransferase large subunit 1-like	Juglans regia	XP_018858808.1
TRINITY_DN11445_c0_g1::TRINITY_DN11445_c0_g1_i3::g.7277::m.7277	9,96E-120	348	XP_018826264.1	probable envelope ADP,ATP carrier protein, chloroplastic	Juglans regia	XP_018826264.1
TRINITY_DN13851_c1_g2::TRINITY_DN13851_c1_g2_i2::g.29292::m.29292	3,34E-151	437	XP_018836309.1	aspartic proteinase-like	Juglans regia	XP_018836310.1
TRINITY_DN15110_c1_g1::TRINITY_DN15110_c1_g1_i4::g.47001::m.47001	0	592	XP_015956091.1	probable cinnamyl alcohol dehydrogenase 1	Arachis duranensis	XP_016189854.1
TRINITY_DN15121_c0_g1::TRINITY_DN15121_c0_g1_i1::g.47196::m.47196	0	1231	OAY25308.1	hypothetical protein MANES_17G083800	Manihot esculenta	ONI31830.1
TRINITY_DN13420_c0_g1::TRINITY_DN13420_c0_g1_i1::g.23499::m.23499	1,42E-127	362	XP_018829987.1	ESCRT-related protein CHMP1B	Juglans regia	XP_007150545.1
TRINITY_DN18855_c1_g1::TRINITY_DN18855_c1_g1_i51::g.107677::m.107677	0	1539	XP_018826787.1	probable sucrose-phosphate synthase 1	Juglans regia	XP_018814107.1
TRINITY_DN16845_c1_g1::TRINITY_DN16845_c1_g1_i1::g.74565::m.74565	3,17E-132	374	XP_016650847.1	ras-related protein RABC1-like	Prunus mume	KDP43080.1
TRINITY_DN11922_c0_g1::TRINITY_DN11922_c0_g1_i1::g.9511::m.9511	2,17E-153	436	XP_018808628.1	probable carboxylesterase 9	Juglans regia	XP_018846314.1
TRINITY_DN13521_c0_g1::TRINITY_DN13521_c0_g1_i1::g.24833::m.24833	6,07E-66	209	XP_018815040.1	dihydrolipoyllysine-residue acetyltransferase component 4 of pyruvate dehydrogenase complex, chloroplastic-like	Juglans regia	XP_018825347.1
TRINITY_DN9608_c0_g1::TRINITY_DN9608_c0_g1_i2::g.3681::m.3681	7,39E-85	255	XP_018838663.1	uncharacterized protein LOC109004542 isoform X2	Juglans regia	XP_018838662.1

TRINITY_DN10819_c0_g1::TRINITY_DN10819_c0_g1_i3::g.5615::m.5615	5,35E-51	160	XP_018853827.1	uncharacterized protein LOC109015827	Juglans regia	XP_018853937.1
TRINITY_DN16090_c0_g1::TRINITY_DN16090_c0_g1_i3::g.61630::m.61630	0	622	XP_018806282.1	uncharacterized protein LOC108979939 isoform X1	Juglans regia	XP_018806285.1
TRINITY_DN18139_c1_g1::TRINITY_DN18139_c1_g1_i7::g.95745::m.95745	5,77E-73	230	XP_018847038.1	tubulin-folding cofactor C	Juglans regia	XP_017188064.1
TRINITY_DN16973_c0_g1::TRINITY_DN16973_c0_g1_i3::g.76496::m.76496	0	980	XP_018853040.1	probable galacturonosyltransferase 10	Juglans regia	XP_018852295.1
TRINITY_DN19343_c7_g1::TRINITY_DN19343_c7_g1_i3::g.116415::m.116415	4,25E-135	385	XP_018812118.1	beta-amylase 1, chloroplastic-like, partial	Juglans regia	XP_018858814.1
TRINITY_DN19191_c0_g2::TRINITY_DN19191_c0_g2_i4::g.113786::m.113786	5,33E-60	195	KDP28382.1	hypothetical protein JCGZ_14153	Jatropha curcas	XP_012083068.1
TRINITY_DN14461_c1_g4::TRINITY_DN14461_c1_g4_i3::g.37527::m.37527	1,10E-55	190	GAU22242.1	hypothetical protein TSUD_227780	Trifolium subterraneum	KYP78448.1
TRINITY_DN17541_c1_g1::TRINITY_DN17541_c1_g1_i11::g.86034::m.86034	0	1488	XP_018822432.1	uncharacterized protein LOC108992351 isoform X2	Juglans regia	XP_018822433.1
TRINITY_DN17922_c0_g1::TRINITY_DN17922_c0_g1_i13::g.92083::m.92083	0	1782	XP_018852299.1	THO complex subunit 2	Juglans regia	XP_012072357.1
TRINITY_DN14757_c1_g1::TRINITY_DN14757_c1_g1_i7::g.41725::m.41725	0	563	XP_018839043.1	cell division cycle 5-like protein	Juglans regia	XP_008218318.1
TRINITY_DN19529_c1_g2::TRINITY_DN19529_c1_g2_i5::g.119243::m.119243	0	739	XP_018855962.1	protein PIN-LIKES 2-like	Juglans regia	XP_018853142.1
TRINITY_DN19966_c14_g1::TRINITY_DN19966_c14_g1_i3::g.126866::m.126866	0	1580	XP_018830052.1	alpha,alpha-trehalose-phosphate synthase [UDP-forming] 1-like isoform X1	Juglans regia	XP_018830053.1
TRINITY_DN15823_c4_g1::TRINITY_DN15823_c4_g1_i3::g.57508::m.57508	0	988	XP_018833579.1	uncharacterized protein LOC109000958 isoform X1	Juglans regia	XP_018833580.1
TRINITY_DN15546_c0_g1::TRINITY_DN15546_c0_g1_i6::g.53570::m.53570	0	721	XP_018818948.1	protein argonaute 4-like isoform X2	Juglans regia	XP_018818945.1
TRINITY_DN13076_c2_g1::TRINITY_DN13076_c2_g1_i6::g.19526::m.19526	6,28E-138	397	XP_018848411.1	cystathionine beta-lyase, chloroplastic-like	Juglans regia	XP_018848412.1
TRINITY_DN19485_c0_g1::TRINITY_DN19485_c0_g1_i9::g.118686::m.118686	0	796	XP_018838814.1	insulin-degrading enzyme-like 1, peroxisomal	Juglans regia	KDP26057.1
TRINITY_DN13021_c1_g1::TRINITY_DN13021_c1_g1_i1::g.18775::m.18775	4,12E-130	376	XP_018811500.1	desiccation-related protein PCC13-62-like	Juglans regia	XP_018811498.1
TRINITY_DN12714_c1_g2::TRINITY_DN12714_c1_g2_i1::g.15270::m.15270	0	717	XP_018819378.1	protein GPR107-like	Juglans regia	XP_020205462.1
TRINITY_DN19212_c0_g1::TRINITY_DN19212_c0_g1_i8::g.114108::m.114108	0	715	XP_018841522.1	serine/threonine-protein kinase STY46-like isoform X1	Juglans regia	XP_018841523.1
TRINITY_DN13032_c1_g1::TRINITY_DN13032_c1_g1_i5::g.18813::m.18813	2,87E-105	312	XP_018842766.1	uncharacterized protein LOC109007529	Juglans regia	ONI25762.1
TRINITY_DN13241_c2_g1::TRINITY_DN13241_c2_g1_i4::g.21412::m.21412	7,88E-98	281	XP_018807480.1	DNA-directed RNA polymerases II and V subunit 8A-like isoform X2	Juglans regia	XP_018807487.1
TRINITY_DN19075_c1_g2::TRINITY_DN19075_c1_g2_i3::g.111314::m.111314	2,19E-62	196	XP_018812502.1	putative SNAP25 homologous protein SNAP30	Juglans regia	KHN03632.1

TRINITY_DN19379_c0_g1::TRINITY_DN19379_c0_g1_i4::g.116795::m.116795	0	1106	XP_008388543.1	luminal-binding protein 5-like	Malus domestica	ALP70520.1
TRINITY_DN15691_c0_g1::TRINITY_DN15691_c0_g1_i9::g.55585::m.55585	0	903	XP_016646826.1	diphthine--ammonia ligase isoform X3	Prunus mume	XP_008218334.1
TRINITY_DN10326_c0_g1::TRINITY_DN10326_c0_g1_i1::g.4634::m.4634	0	634	XP_018852365.1	pyruvate kinase, cytosolic isozyme-like	Juglans regia	XP_020210350.1
TRINITY_DN12047_c0_g1::TRINITY_DN12047_c0_g1_i4::g.10037::m.10037	0	569	XP_018815870.1	BAG family molecular chaperone regulator 7-like	Juglans regia	XP_018851941.1
TRINITY_DN18148_c1_g6::TRINITY_DN18148_c1_g6_i2::g.95979::m.95979	2,75E-109	322	XP_018832080.1	purple acid phosphatase 15-like, partial	Juglans regia	XP_014619149.1
TRINITY_DN17159_c3_g1::TRINITY_DN17159_c3_g1_i2::g.79474::m.79474	5,46E-72	218	XP_018847089.1	cytochrome c oxidase assembly protein COX11, mitochondrial-like isoform X2	Juglans regia	XP_018847090.1
TRINITY_DN10845_c0_g1::TRINITY_DN10845_c0_g1_i1::g.5649::m.5649	2,32E-91	270	XP_018831140.1	uncharacterized protein LOC108998861	Juglans regia	ONH89548.1
TRINITY_DN15929_c0_g1::TRINITY_DN15929_c0_g1_i6::g.59159::m.59159	0	1036	XP_018809403.1	homeobox protein HAT3.1	Juglans regia	ONH91822.1
TRINITY_DN11125_c0_g1::TRINITY_DN11125_c0_g1_i2::g.6392::m.6392	0	792	OAY49554.1	hypothetical protein MANES_05G065400	Manihot esculenta	OAY49556.1
TRINITY_DN19874_c1_g1::TRINITY_DN19874_c1_g1_i2::g.124818::m.124818	4,53E-84	260	XP_018844870.1	UDP-glycosyltransferase 71K1-like	Juglans regia	OAY61088.1
TRINITY_DN16609_c0_g4::TRINITY_DN16609_c0_g4_i3::g.70404::m.70404	0	2727	XP_018818212.1	E3 ubiquitin-protein ligase KEG isoform X1	Juglans regia	XP_018818212.1
TRINITY_DN19302_c0_g2::TRINITY_DN19302_c0_g2_i5::g.115749::m.115749	3,02E-115	356	XP_014512034.1	myosin-11	Vigna radiata var. radiata	KHN44988.1
TRINITY_DN18657_c3_g2::TRINITY_DN18657_c3_g2_i5::g.104104::m.104104	2,26E-64	197	XP_018837566.1	glutamyl-tRNA(Gln) amidotransferase subunit C, chloroplastic/mitochondrial	Juglans regia	ONI33729.1
TRINITY_DN18365_c0_g2::TRINITY_DN18365_c0_g2_i2::g.99254::m.99254	0	701	XP_018834399.1	uncharacterized protein LOC109001525	Juglans regia	XP_018816504.1
TRINITY_DN14704_c1_g3::TRINITY_DN14704_c1_g3_i1::g.40903::m.40903	0	866	XP_018844220.1	heparanase-like protein 1, partial	Juglans regia	XP_018835860.1
TRINITY_DN13379_c2_g1::TRINITY_DN13379_c2_g1_i3::g.22962::m.22962	8,35E-47	156	XP_018841785.1	peroxisomal adenine nucleotide carrier 1-like	Juglans regia	XP_018841786.1
TRINITY_DN16128_c0_g1::TRINITY_DN16128_c0_g1_i5::g.62674::m.62674	0	939	XP_018821773.1	phosphoinositide phospholipase C 6-like isoform X1	Juglans regia	XP_018821774.1
TRINITY_DN15685_c2_g1::TRINITY_DN15685_c2_g1_i7::g.55504::m.55504	0	881	XP_018851702.1	polygalacturonate 4-alpha-galacturonosyltransferase-like isoform X1	Juglans regia	XP_018851703.1
TRINITY_DN14830_c5_g1::TRINITY_DN14830_c5_g1_i9::g.42943::m.42943	0	798	XP_018829528.1	histone-lysine N-methyltransferase setd3 isoform X1	Juglans regia	OAY29294.1
TRINITY_DN11391_c0_g1::TRINITY_DN11391_c0_g1_i3::g.7245::m.7245	0	680	XP_018857638.1	cytosolic Fe-S cluster assembly factor NBP35	Juglans regia	XP_008219249.1
TRINITY_DN17340_c1_g1::TRINITY_DN17340_c1_g1_i17::g.82513::m.82513	1,17E-71	226	XP_018822229.1	protein WVD2-like 6 isoform X2	Juglans regia	XP_018822227.1
TRINITY_DN15433_c2_g1::TRINITY_DN15433_c2_g1_i2::g.51849::m.51849	4,22E-133	388	XP_018822723.1	aladin isoform X1	Juglans regia	XP_018822724.1

TRINITY_DN19143_c2_g1::TRINITY_DN19143_c2_g1_i5::g.112885::m.112885	0	1681	XP_018810738.1	uncharacterized protein LOC108983527 isoform X1	Juglans regia	XP_018810747.1
TRINITY_DN15141_c2_g2::TRINITY_DN15141_c2_g2_i7::g.47512::m.47512	2,88E-56	176	OAY52767.1	hypothetical protein MANES_04G109500	Manihot esculenta	AFC88294.1
TRINITY_DN6604_c0_g1::TRINITY_DN6604_c0_g1_i1::g.1696::m.1696	0	599	XP_018856707.1	L-ascorbate oxidase homolog	Juglans regia	XP_018856708.1
TRINITY_DN14356_c5_g1::TRINITY_DN14356_c5_g1_i2::g.35855::m.35855	1,79E-143	417	XP_018842638.1	double-stranded RNA-binding protein 1	Juglans regia	XP_018842639.1
TRINITY_DN17814_c1_g1::TRINITY_DN17814_c1_g1_i9::g.90451::m.90451	5,67E-122	358	XP_018851655.1	probable ADP-ribosylation factor GTPase-activating protein AGD5 isoform X4	Juglans regia	XP_018851632.1
TRINITY_DN7788_c0_g1::TRINITY_DN7788_c0_g1_i1::g.2350::m.2350	0	690	CBF70796.1	unnamed protein product	Betula pendula	CBF86074.1
TRINITY_DN16305_c1_g1::TRINITY_DN16305_c1_g1_i3::g.65515::m.65515	0	781	XP_018860345.1	chaperone protein dnaJ A6, chloroplastic-like	Juglans regia	XP_018834540.1
TRINITY_DN14505_c2_g1::TRINITY_DN14505_c2_g1_i2::g.38114::m.38114	1,03E-64	199	XP_008219047.1	charged multivesicular body protein 5-like	Prunus mume	ONI35685.1
TRINITY_DN16442_c0_g2::TRINITY_DN16442_c0_g2_i5::g.67615::m.67615	2,76E-162	458	XP_018830828.1	probable fructokinase-7	Juglans regia	XP_008234319.1
TRINITY_DN9437_c0_g1::TRINITY_DN9437_c0_g1_i1::g.3480::m.3480	0	631	XP_018846669.1	4-hydroxy-tetrahydrodipicolinate synthase, chloroplastic-like	Juglans regia	XP_018806961.1
TRINITY_DN10468_c0_g2::TRINITY_DN10468_c0_g2_i1::g.4854::m.4854	0	862	XP_018847630.1	bifunctional 3-dehydroquinate dehydratase/shikimate dehydrogenase, chloroplastic-like	Juglans regia	XP_012089153.1
TRINITY_DN19289_c1_g2::TRINITY_DN19289_c1_g2_i6::g.115366::m.115366	0	556	XP_018847765.1	putative WEB family protein At1g65010, chloroplastic	Juglans regia	XP_018847766.1
TRINITY_DN570_c0_g1::TRINITY_DN570_c0_g1_i1::g.152::m.152	2,09E-34	119	XP_018810557.1	uncharacterized protein LOC108983399	Juglans regia	XP_008385848.1
TRINITY_DN16387_c0_g7::TRINITY_DN16387_c0_g7_i3::g.66774::m.66774	1,80E-71	219	XP_018821449.1	novel plant SNARE 11-like	Juglans regia	XP_018821450.1
TRINITY_DN19149_c0_g1::TRINITY_DN19149_c0_g1_i14::g.113756::m.113756	9,35E-52	179	XP_018842267.1	uncharacterized protein LOC109007158 isoform X3	Juglans regia	XP_018842265.1
TRINITY_DN18020_c2_g2::TRINITY_DN18020_c2_g2_i4::g.93764::m.93764	3,09E-153	436	XP_018850691.1	beta-1,3-galactosyltransferase 7-like	Juglans regia	ONI34929.1
TRINITY_DN16978_c1_g3::TRINITY_DN16978_c1_g3_i2::g.76542::m.76542	0	815	XP_018832674.1	anaphase-promoting complex subunit 8	Juglans regia	XP_004516815.1
TRINITY_DN17213_c1_g1::TRINITY_DN17213_c1_g1_i3::g.80196::m.80196	6,06E-123	352	XP_018830852.1	cysteine and histidine-rich domain-containing protein RAR1	Juglans regia	XP_009346938.1
TRINITY_DN19992_c4_g1::TRINITY_DN19992_c4_g1_i5::g.127460::m.127460	1,93E-58	187	XP_018805839.1	dolichyl-phosphate beta-glucosyltransferase-like	Juglans regia	XP_018814490.1
TRINITY_DN13415_c1_g3::TRINITY_DN13415_c1_g3_i1::g.23602::m.23602	0	1023	XP_018809529.1	phosphoenolpyruvate carboxylase 4-like isoform X1	Juglans regia	XP_018853146.1
TRINITY_DN12348_c0_g1::TRINITY_DN12348_c0_g1_i1::g.11710::m.11710	1,60E-54	172	XP_018826323.1	uncharacterized protein LOC108995253	Juglans regia	XP_018832869.1

TRINITY_DN15405_c3_g1::TRINITY_DN15405_c3_g1_i4::g.51552::m.51552	7,42E-43	152	XP_018818346.1	dynamin-related protein 5A	Juglans regia	XP_007135262.1
TRINITY_DN9822_c0_g1::TRINITY_DN9822_c0_g1_i1::g.3931::m.3931	1,39E-127	371	XP_018811141.1	amidase 1 isoform X2	Juglans regia	XP_018811139.1
TRINITY_DN14833_c0_g2::TRINITY_DN14833_c0_g2_i2::g.42977::m.42977	0	760	XP_018842090.1	uncharacterized protein LOC109007046	Juglans regia	XP_018851050.1
TRINITY_DN15454_c2_g1::TRINITY_DN15454_c2_g1_i4::g.52157::m.52157	0	800	XP_018854589.1	PAP-specific phosphatase HAL2-like	Juglans regia	XP_018859020.1
TRINITY_DN14480_c1_g1::TRINITY_DN14480_c1_g1_i3::g.37689::m.37689	2,33E-61	190	XP_018813027.1	vacuolar protein-sorting-associated protein 37 homolog 1-like	Juglans regia	XP_018836180.1
TRINITY_DN18127_c0_g1::TRINITY_DN18127_c0_g1_i1::g.95817::m.95817	0	1445	XP_018811836.1	uncharacterized protein LOC108984363	Juglans regia	XP_018813316.1
TRINITY_DN16613_c0_g1::TRINITY_DN16613_c0_g1_i5::g.70442::m.70442	0	773	XP_018822837.1	FRIGIDA-like protein 4a	Juglans regia	ONH98105.1
TRINITY_DN17792_c0_g7::TRINITY_DN17792_c0_g7_i6::g.89759::m.89759	5,49E-55	179	XP_018844982.1	PI-PLC X domain-containing protein At5g67130	Juglans regia	KHN05833.1
TRINITY_DN19032_c3_g1::TRINITY_DN19032_c3_g1_i17::g.110826::m.110826	0	769	XP_018850270.1	U-box domain-containing protein 35 isoform X3	Juglans regia	XP_018850268.1
TRINITY_DN3292_c0_g1::TRINITY_DN3292_c0_g1_i2::g.890::m.890	0	517	XP_018836995.1	dnaJ homolog subfamily B member 4-like isoform X1	Juglans regia	XP_018836996.1
TRINITY_DN13487_c0_g1::TRINITY_DN13487_c0_g1_i1::g.24417::m.24417	0	883	XP_018845396.1	diacylglycerol O-acyltransferase 1-like	Juglans regia	XP_018846200.1
TRINITY_DN16110_c4_g1::TRINITY_DN16110_c4_g1_i11::g.62324::m.62324	3,73E-43	154	XP_018814959.1	aldehyde oxidase GLOX1-like	Juglans regia	XP_018853951.1
TRINITY_DN12761_c4_g2::TRINITY_DN12761_c4_g2_i1::g.15691::m.15691	2,43E-64	206	XP_018851305.1	switch-associated protein 70	Juglans regia	XP_012088449.1
TRINITY_DN11277_c0_g1::TRINITY_DN11277_c0_g1_i2::g.6842::m.6842	1,97E-70	213	XP_018825580.1	uncharacterized protein LOC108994710 isoform X3	Juglans regia	XP_018826010.1
TRINITY_DN14078_c2_g2::TRINITY_DN14078_c2_g2_i1::g.32075::m.32075	6,12E-54	170	XP_018835557.1	ubiquitin-like domain-containing CTD phosphatase	Juglans regia	XP_018842013.1
TRINITY_DN18707_c1_g1::TRINITY_DN18707_c1_g1_i8::g.104943::m.104943	8,49E-80	242	XP_009371858.1	B-cell receptor-associated protein 31	Pyrus x bretschneideri	XP_008235454.1
TRINITY_DN14427_c0_g1::TRINITY_DN14427_c0_g1_i8::g.36957::m.36957	0	633	XP_018821599.1	lysophospholipid acyltransferase LPEAT1-like isoform X1	Juglans regia	XP_018821600.1
TRINITY_DN14274_c2_g1::TRINITY_DN14274_c2_g1_i1::g.34705::m.34705	4,33E-148	427	XP_018836672.1	sphingosine-1-phosphate lyase	Juglans regia	ONI29929.1
TRINITY_DN14629_c0_g3::TRINITY_DN14629_c0_g3_i2::g.40344::m.40344	2,36E-43	149	XP_018849379.1	dr1-associated corepressor-like isoform X2	Juglans regia	XP_018849378.1
TRINITY_DN17321_c2_g1::TRINITY_DN17321_c2_g1_i8::g.82045::m.82045	1,59E-73	232	XP_018816046.1	uncharacterized protein LOC108987537	Juglans regia	OAY41680.1
TRINITY_DN19385_c2_g1::TRINITY_DN19385_c2_g1_i5::g.117068::m.117068	1,68E-107	313	XP_008386967.1	uncharacterized protein LOC103449426	Malus domestica	XP_008359455.1
TRINITY_DN12251_c0_g1::TRINITY_DN12251_c0_g1_i7::g.11382::m.11382	1,97E-60	184	XP_008234567.1	NADH dehydrogenase [ubiquinone] iron-sulfur protein 6, mitochondrial	Prunus mume	ONI25909.1

TRINITY_DN18091_c1_g1::TRINITY_DN18091_c1_g1_i6::g.94898::m.94898	1,27E-146	415	XP_018850569.1	nitrilase-like protein 2	Juglans regia	XP_016176841.1
TRINITY_DN18990_c0_g1::TRINITY_DN18990_c0_g1_i1::g.110013::m.110013	2,77E-105	327	XP_018832888.1	uncharacterized protein LOC109000473	Juglans regia	XP_018840661.1
TRINITY_DN19413_c0_g2::TRINITY_DN19413_c0_g2_i1::g.117446::m.117446	1,12E-129	367	OIW12873.1	hypothetical protein TanjilG_24806	Lupinus angustifolius	XP_019441486.1
TRINITY_DN18349_c4_g1::TRINITY_DN18349_c4_g1_i3::g.99227::m.99227	7,42E-164	480	ONI08508.1	hypothetical protein PRUPE_5G182400	Prunus persica	XP_008239683.1
TRINITY_DN14718_c0_g1::TRINITY_DN14718_c0_g1_i3::g.41289::m.41289	4,71E-179	511	XP_018839142.1	NADP-dependent malic enzyme-like	Juglans regia	XP_018843270.1
TRINITY_DN18771_c1_g1::TRINITY_DN18771_c1_g1_i3::g.106137::m.106137	0	710	XP_018853620.1	3-phosphoinositide-dependent protein kinase 1	Juglans regia	XP_018820470.1
TRINITY_DN10875_c0_g1::TRINITY_DN10875_c0_g1_i3::g.5717::m.5717	0	822	XP_018832960.1	histone deacetylase 19-like	Juglans regia	XP_018843098.1
TRINITY_DN10668_c0_g1::TRINITY_DN10668_c0_g1_i3::g.5273::m.5273	0	1159	XP_018848649.1	peptidyl-prolyl cis-trans isomerase CYP71	Juglans regia	XP_014498242.1
TRINITY_DN16826_c3_g1::TRINITY_DN16826_c3_g1_i6::g.74102::m.74102	0	1278	XP_018811212.1	microtubule-associated protein TORTIFOLIA1-like isoform X1	Juglans regia	XP_018811221.1
TRINITY_DN19356_c0_g4::TRINITY_DN19356_c0_g4_i8::g.116588::m.116588	7,96E-154	437	XP_018830880.1	1-acyl-sn-glycerol-3-phosphate acyltransferase 3-like	Juglans regia	XP_009375057.2
TRINITY_DN19935_c0_g1::TRINITY_DN19935_c0_g1_i18::g.126411::m.126411	9,83E-56	176	XP_017188793.1	protein MOR1-like	Malus domestica	XP_018834726.1
TRINITY_DN15733_c2_g3::TRINITY_DN15733_c2_g3_i4::g.56425::m.56425	0	1648	XP_018860544.1	phospholipase D beta 2-like	Juglans regia	XP_018847586.1
TRINITY_DN11377_c0_g1::TRINITY_DN11377_c0_g1_i3::g.7158::m.7158	1,51E-107	311	OAY36849.1	hypothetical protein MANES_11G053800	Manihot esculenta	XP_018812067.1
TRINITY_DN13397_c1_g1::TRINITY_DN13397_c1_g1_i6::g.22118::m.22118	3,29E-27	108	XP_018821852.1	uroporphyrinogen decarboxylase-like	Juglans regia	XP_018838987.1
TRINITY_DN18687_c0_g1::TRINITY_DN18687_c0_g1_i17::g.103218::m.103218	0	929	XP_018852272.1	nuclear pore complex protein NUP93A-like	Juglans regia	OAY36979.1
TRINITY_DN15145_c0_g1::TRINITY_DN15145_c0_g1_i10::g.46819::m.46819	5,10E-35	131	XP_018850946.1	DNA gyrase subunit B, chloroplastic/mitochondrial-like	Juglans regia	XP_008387565.1
TRINITY_DN15345_c2_g1::TRINITY_DN15345_c2_g1_i10::g.49844::m.49844	0	984	XP_018813804.1	probable galactinol--sucrose galactosyltransferase 1	Juglans regia	XP_008219010.1
TRINITY_DN17431_c5_g1::TRINITY_DN17431_c5_g1_i7::g.83828::m.83828	0	1278	XP_018815904.1	squamous cell carcinoma antigen recognized by T-cells 3 isoform X2	Juglans regia	XP_018815903.1
TRINITY_DN16550_c0_g1::TRINITY_DN16550_c0_g1_i1::g.69273::m.69273	0	988	XP_018837556.1	uncharacterized protein LOC109003736	Juglans regia	OAY26770.1
TRINITY_DN15895_c4_g2::TRINITY_DN15895_c4_g2_i3::g.57730::m.57730	1,87E-94	303	XP_018816385.1	uncharacterized protein LOC108987817 isoform X3	Juglans regia	XP_018816382.1
TRINITY_DN12618_c1_g1::TRINITY_DN12618_c1_g1_i9::g.14449::m.14449	3,36E-149	427	XP_018820745.1	serine/arginine-rich splicing factor RS40-like isoform X6	Juglans regia	XP_018820747.1
TRINITY_DN19462_c2_g2::TRINITY_DN19462_c2_g2_i5::g.118383::m.118383	0	3246	XP_018836938.1	phosphatidylinositol 4-kinase alpha 1 isoform X4	Juglans regia	XP_018836937.1

TRINITY_DN16453_c1_g1::TRINITY_DN16453_c1_g1_i1::g.67791::m.67791	1,85E-104	300	XP_018852393.1	peptidyl-prolyl cis-trans isomerase E	Juglans regia	KDP41325.1
TRINITY_DN14591_c5_g1::TRINITY_DN14591_c5_g1_i3::g.39221::m.39221	3,80E-149	425	OIV92338.1	hypothetical protein TanjilG_10548	Lupinus angustifolius	XP_019426028.1
TRINITY_DN16615_c1_g3::TRINITY_DN16615_c1_g3_i6::g.70426::m.70426	0	732	XP_018833896.1	isoflavone 2'-hydroxylase-like	Juglans regia	XP_018854609.1
TRINITY_DN18754_c0_g1::TRINITY_DN18754_c0_g1_i2::g.106002::m.106002	0	720	XP_018832099.1	actin cytoskeleton-regulatory complex protein PAN1-like	Juglans regia	XP_018838276.1
TRINITY_DN17004_c0_g1::TRINITY_DN17004_c0_g1_i2::g.76878::m.76878	8,84E-78	237	XP_018852079.1	uncharacterized protein LOC109014173	Juglans regia	OAY30302.1
TRINITY_DN15390_c3_g1::TRINITY_DN15390_c3_g1_i2::g.51061::m.51061	6,37E-129	366	XP_018822751.1	probable aquaporin SIP2-1 isoform X1	Juglans regia	XP_018839934.1
TRINITY_DN18311_c1_g1::TRINITY_DN18311_c1_g1_i2::g.98629::m.98629	3,67E-109	315	XP_018857636.1	adenylate kinase 4-like	Juglans regia	OAY32425.1
TRINITY_DN17353_c2_g2::TRINITY_DN17353_c2_g2_i2::g.82341::m.82341	3,14E-142	429	XP_018849205.1	putative transcription elongation factor SPT5 homolog 1	Juglans regia	XP_008237688.1
TRINITY_DN10747_c0_g1::TRINITY_DN10747_c0_g1_i1::g.5399::m.5399	9,95E-144	410	XP_018844066.1	Werner Syndrome-like exonuclease	Juglans regia	ONI28848.1
TRINITY_DN12384_c0_g1::TRINITY_DN12384_c0_g1_i2::g.12333::m.12333	4,18E-118	345	XP_018807146.1	nicotinate-nucleotide pyrophosphorylase [carboxylating], chloroplastic isoform X2	Juglans regia	XP_018807147.1
TRINITY_DN16358_c2_g1::TRINITY_DN16358_c2_g1_i5::g.66392::m.66392	5,94E-152	433	XP_018858103.1	delta-aminolevulinic acid dehydratase, chloroplastic-like	Juglans regia	XP_008378481.1
TRINITY_DN19240_c1_g2::TRINITY_DN19240_c1_g2_i4::g.114388::m.114388	0	633	XP_018833674.1	muscle M-line assembly protein unc-89-like isoform X2	Juglans regia	XP_018833673.1
TRINITY_DN17731_c6_g1::TRINITY_DN17731_c6_g1_i4::g.89011::m.89011	1,26E-86	259	XP_018815778.1	prolyl 4-hydroxylase 1-like isoform X2	Juglans regia	XP_018815777.1
TRINITY_DN14931_c0_g1::TRINITY_DN14931_c0_g1_i6::g.44458::m.44458	0	928	ONI23221.1	hypothetical protein PRUPE_2G176000	Prunus persica	XP_020412098.1
TRINITY_DN19471_c0_g1::TRINITY_DN19471_c0_g1_i4::g.118445::m.118445	7,31E-69	219	XP_018818273.1	metal tolerance protein 4-like	Juglans regia	XP_018834606.1
TRINITY_DN17953_c1_g8::TRINITY_DN17953_c1_g8_i1::g.91726::m.91726	1,72E-171	492	XP_008391350.1	phosphatidylserine decarboxylase proenzyme 3-like	Malus domestica	XP_018842147.1
TRINITY_DN14840_c3_g1::TRINITY_DN14840_c3_g1_i19::g.43227::m.43227	2,57E-64	203	XP_018820465.1	N-acetyl-D-glucosamine kinase-like isoform X1	Juglans regia	OAY57353.1
TRINITY_DN16802_c5_g3::TRINITY_DN16802_c5_g3_i3::g.73661::m.73661	1,55E-151	442	XP_018833887.1	uncharacterized protein LOC109001170 isoform X2	Juglans regia	XP_018833884.1
TRINITY_DN16580_c0_g3::TRINITY_DN16580_c0_g3_i6::g.69917::m.69917	0	880	XP_018847635.1	KH domain-containing protein At4g18375	Juglans regia	XP_008225505.1
TRINITY_DN13912_c2_g1::TRINITY_DN13912_c2_g1_i3::g.30407::m.30407	0	816	XP_018832822.1	glucan endo-1,3-beta-glucosidase 8-like	Juglans regia	XP_018832823.1
TRINITY_DN19207_c4_g2::TRINITY_DN19207_c4_g2_i3::g.114212::m.114212	0	852	XP_018820332.1	uncharacterized protein LOC108990725 isoform X2	Juglans regia	XP_018820331.1
TRINITY_DN16740_c1_g1::TRINITY_DN16740_c1_g1_i2::g.72692::m.72692	0	685	XP_018814289.1	topless-related protein 4-like	Juglans regia	XP_018814290.1

TRINITY_DN15744_c2_g4::TRINITY_DN15744_c2_g4_i2::g.56499::m.56499	1,11E-101	300	XP_018807462.1	membrane-associated 30 kDa protein, chloroplastic-like	Juglans regia	XP_018806924.1
TRINITY_DN16211_c0_g2::TRINITY_DN16211_c0_g2_i6::g.63944::m.63944	0	682	XP_018817248.1	phosphatidate phosphatase PAH1	Juglans regia	XP_009340900.1
TRINITY_DN13792_c0_g1::TRINITY_DN13792_c0_g1_i4::g.28291::m.28291	5,09E-43	154	XP_018825898.1	importin-11 isoform X1	Juglans regia	XP_018825900.1
TRINITY_DN14860_c0_g1::TRINITY_DN14860_c0_g1_i1::g.43455::m.43455	0	1256	XP_018810118.1	cation-chloride cotransporter 1 isoform X1	Juglans regia	XP_018810124.1
TRINITY_DN12935_c1_g1::TRINITY_DN12935_c1_g1_i3::g.17528::m.17528	2,40E-120	348	XP_018807963.1	2-alkenal reductase (NADP(+)-dependent)-like	Juglans regia	XP_018855810.1
TRINITY_DN16126_c1_g1::TRINITY_DN16126_c1_g1_i14::g.62052::m.62052	0	877	XP_018828572.1	alanine--glyoxylate aminotransferase 2 homolog 2, mitochondrial-like	Juglans regia	OAY41602.1
TRINITY_DN13480_c0_g1::TRINITY_DN13480_c0_g1_i3::g.24330::m.24330	0	1069	XP_018830309.1	uncharacterized protein LOC108998264 isoform X1	Juglans regia	XP_018830310.1
TRINITY_DN16307_c2_g3::TRINITY_DN16307_c2_g3_i3::g.65541::m.65541	0	1040	OAY31284.1	hypothetical protein MANES_14G099600	Manihot esculenta	KDP29385.1
TRINITY_DN17586_c3_g4::TRINITY_DN17586_c3_g4_i6::g.86457::m.86457	0	826	XP_018819504.1	serine/threonine-protein phosphatase 6 regulatory subunit 3-like isoform X1	Juglans regia	XP_018819504.1
TRINITY_DN10182_c0_g1::TRINITY_DN10182_c0_g1_i1::g.4394::m.4394	3,09E-83	247	XP_020215321.1	protein C2-DOMAIN ABA-RELATED 9-like	Cajanus cajan	ACU19693.1
TRINITY_DN16200_c0_g2::TRINITY_DN16200_c0_g2_i2::g.62796::m.62796	2,78E-145	414	XP_018827350.1	deoxyhypusine hydroxylase	Juglans regia	XP_008235715.1
TRINITY_DN15100_c3_g1::TRINITY_DN15100_c3_g1_i6::g.45535::m.45535	4,01E-93	280	XP_018838088.1	palmitoyl-acyl carrier protein thioesterase, chloroplastic-like isoform X2	Juglans regia	XP_018838086.1
TRINITY_DN12087_c0_g1::TRINITY_DN12087_c0_g1_i3::g.10442::m.10442	9,79E-90	266	XP_018822178.1	transmembrane emp24 domain-containing protein p24delta3-like	Juglans regia	XP_012078211.1
TRINITY_DN15513_c2_g1::TRINITY_DN15513_c2_g1_i6::g.53086::m.53086	2,55E-29	115	XP_018822483.1	uncharacterized protein DDB_G0283697-like	Juglans regia	XP_018826899.1
TRINITY_DN13233_c0_g4::TRINITY_DN13233_c0_g4_i3::g.21366::m.21366	0	621	XP_018850089.1	patellin-3-like	Juglans regia	XP_018850089.1
TRINITY_DN17374_c2_g1::TRINITY_DN17374_c2_g1_i5::g.82712::m.82712	0	664	XP_008225034.1	probable polyol transporter 4	Prunus mume	ONI10351.1
TRINITY_DN12068_c0_g1::TRINITY_DN12068_c0_g1_i4::g.10141::m.10141	0	754	XP_018857491.1	uncharacterized protein LOC109019613	Juglans regia	ONI03867.1
TRINITY_DN14979_c0_g1::TRINITY_DN14979_c0_g1_i9::g.45197::m.45197	0	1204	KDP31060.1	hypothetical protein JCGZ_11436	Jatropha curcas	XP_012080012.1
TRINITY_DN15527_c0_g1::TRINITY_DN15527_c0_g1_i4::g.53287::m.53287	0	615	XP_018828485.1	LRR repeats and ubiquitin-like domain-containing protein At2g30105	Juglans regia	ONH99825.1
TRINITY_DN15865_c2_g1::TRINITY_DN15865_c2_g1_i9::g.58071::m.58071	2,48E-92	267	XP_018812078.1	cyclin-B1-2-like	Juglans regia	XP_018815474.1
TRINITY_DN17882_c2_g1::TRINITY_DN17882_c2_g1_i14::g.91309::m.91309	2,33E-142	421	XP_018844053.1	probable acyl-activating enzyme 16, chloroplastic isoform X2	Juglans regia	XP_018844052.1
TRINITY_DN18694_c1_g1::TRINITY_DN18694_c1_g1_i5::g.104667::m.104667	1,23E-108	318	XP_018837715.1	short-chain dehydrogenase TIC 32, chloroplastic	Juglans regia	ONI08287.1

TRINITY_DN17794_c1_g1::TRINITY_DN17794_c1_g1_i3::g.89692::m.89692	5,06E-113	326	KDP44031.1	hypothetical protein JCGZ_05498	Jatropha curcas	XP_012064793.1
TRINITY_DN15372_c1_g1::TRINITY_DN15372_c1_g1_i7::g.50862::m.50862	3,83E-64	200	XP_018846517.1	uncharacterized protein LOC109010214 isoform X2	Juglans regia	XP_018846516.1
TRINITY_DN13872_c3_g1::TRINITY_DN13872_c3_g1_i6::g.29683::m.29683	2,83E-70	212	XP_018823244.1	outer envelope pore protein 16, chloroplastic-like	Juglans regia	KDP34497.1
TRINITY_DN14858_c0_g5::TRINITY_DN14858_c0_g5_i1::g.43408::m.43408	0	1933	XP_018825828.1	ubiquitin-activating enzyme E1 1-like isoform X1	Juglans regia	XP_018825829.1
TRINITY_DN11799_c0_g1::TRINITY_DN11799_c0_g1_i1::g.8868::m.8868	0	795	XP_018835856.1	phenylalanine--tRNA ligase, chloroplastic/mitochondrial	Juglans regia	ONI11601.1
TRINITY_DN17436_c0_g1::TRINITY_DN17436_c0_g1_i7::g.83790::m.83790	0	1876	XP_018826777.1	WD repeat-containing protein 11	Juglans regia	XP_008242799.1
TRINITY_DN15518_c0_g2::TRINITY_DN15518_c0_g2_i2::g.53174::m.53174	0	2721	XP_018821790.1	ARF guanine-nucleotide exchange factor GNOM	Juglans regia	XP_018821791.1
TRINITY_DN19390_c1_g1::TRINITY_DN19390_c1_g1_i8::g.117167::m.117167	0	2262	XP_018852083.1	ABC transporter C family member 10-like	Juglans regia	XP_018852084.1
TRINITY_DN12101_c0_g1::TRINITY_DN12101_c0_g1_i1::g.9937::m.9937	5,23E-133	382	XP_018842452.1	late embryogenesis abundant protein D-34-like	Juglans regia	XP_018840448.1
TRINITY_DN11289_c0_g1::TRINITY_DN11289_c0_g1_i1::g.6862::m.6862	0	592	XP_018831263.1	N-carbamoylputrescine amidase-like	Juglans regia	XP_018831264.1
TRINITY_DN10610_c0_g1::TRINITY_DN10610_c0_g1_i2::g.5110::m.5110	6,15E-164	460	XP_020228837.1	uncharacterized protein LOC109809844 isoform X2	Cajanus cajan	KYP55377.1
TRINITY_DN17673_c0_g1::TRINITY_DN17673_c0_g1_i8::g.88029::m.88029	5,88E-61	204	XP_018816325.1	cellulose synthase-like protein D1	Juglans regia	OAY28231.1
TRINITY_DN17467_c0_g2::TRINITY_DN17467_c0_g2_i8::g.84133::m.84133	2,60E-110	328	XP_018816311.1	RNA polymerase II-associated protein 3 isoform X3	Juglans regia	XP_018816310.1
TRINITY_DN18000_c3_g4::TRINITY_DN18000_c3_g4_i1::g.93345::m.93345	1,41E-13	69,3	XP_018836207.1	uncharacterized protein LOC109002773	Juglans regia	XP_012068578.1
TRINITY_DN13706_c2_g1::TRINITY_DN13706_c2_g1_i3::g.27413::m.27413	0	639	XP_018808593.1	serine/threonine-protein phosphatase 2A activator-like	Juglans regia	XP_018807165.1
TRINITY_DN12707_c0_g1::TRINITY_DN12707_c0_g1_i3::g.15086::m.15086	2,60E-168	475	XP_018807745.1	uridine nucleosidase 1	Juglans regia	XP_008241263.1
TRINITY_DN18227_c0_g1::TRINITY_DN18227_c0_g1_i4::g.97154::m.97154	2,09E-75	246	XP_018846461.1	apoptotic chromatin condensation inducer in the nucleus-like isoform X2	Juglans regia	XP_018846458.1
TRINITY_DN17401_c2_g3::TRINITY_DN17401_c2_g3_i2::g.83107::m.83107	0	628	XP_018816020.1	probable sodium-coupled neutral amino acid transporter 6	Juglans regia	XP_018846083.1
TRINITY_DN11447_c0_g1::TRINITY_DN11447_c0_g1_i1::g.7417::m.7417	0	600	XP_018841012.1	probable ethanolamine kinase	Juglans regia	ONH98290.1
TRINITY_DN18966_c3_g3::TRINITY_DN18966_c3_g3_i5::g.109514::m.109514	5,10E-180	510	XP_018855526.1	transcription initiation factor IIA large subunit isoform X2	Juglans regia	XP_018855521.1
TRINITY_DN18595_c0_g1::TRINITY_DN18595_c0_g1_i7::g.103121::m.103121	0	1931	XP_018814465.1	AP3-complex subunit beta-A	Juglans regia	XP_018814466.1
TRINITY_DN11480_c0_g1::TRINITY_DN11480_c0_g1_i7::g.7531::m.7531	8,88E-132	377	XP_018824591.1	nudix hydrolase 9 isoform X2	Juglans regia	XP_018824590.1

TRINITY_DN19085_c0_g1::TRINITY_DN19085_c0_g1_i22::g.111744::m.111744	1,77E-162	483	XP_018810627.1	AMP deaminase-like	Juglans regia	XP_016647605.1
TRINITY_DN14786_c1_g2::TRINITY_DN14786_c1_g2_i1::g.42235::m.42235	0	4422	XP_018822821.1	dnaJ homolog subfamily C GRV2 isoform X1	Juglans regia	ONH98186.1
TRINITY_DN1011_c0_g1::TRINITY_DN1011_c0_g1_i1::g.255::m.255	3,56E-158	469	XP_018829558.1	alpha-mannosidase	Juglans regia	XP_018858492.1
TRINITY_DN16766_c2_g2::TRINITY_DN16766_c2_g2_i3::g.73070::m.73070	9,90E-75	229	ONI09830.1	hypothetical protein PRUPE_4G012100	Prunus persica	XP_007213842.1
TRINITY_DN17471_c1_g1::TRINITY_DN17471_c1_g1_i8::g.84225::m.84225	0	1121	XP_018838401.1	putative phospholipid-transporting ATPase 9	Juglans regia	XP_018837664.1
TRINITY_DN14557_c1_g1::TRINITY_DN14557_c1_g1_i7::g.38742::m.38742	0	628	XP_018828900.1	uncharacterized protein LOC108997197	Juglans regia	XP_018828901.1
TRINITY_DN12733_c0_g1::TRINITY_DN12733_c0_g1_i1::g.15369::m.15369	3,79E-124	352	XP_018849174.1	ras-related protein RABA1b-like	Juglans regia	XP_018832029.1
TRINITY_DN17602_c0_g2::TRINITY_DN17602_c0_g2_i1::g.86960::m.86960	0	3516	XP_018816643.1	auxin transport protein BIG	Juglans regia	XP_012088111.1
TRINITY_DN13377_c3_g1::TRINITY_DN13377_c3_g1_i6::g.23084::m.23084	1,72E-93	279	XP_018833470.1	BRCA1-A complex subunit BRE isoform X1	Juglans regia	OIV91900.1
TRINITY_DN14518_c1_g2::TRINITY_DN14518_c1_g2_i4::g.38282::m.38282	0	902	XP_018846982.1	probable glycerol-3-phosphate dehydrogenase [NAD(+)] 1, cytosolic	Juglans regia	OAY36176.1
TRINITY_DN18437_c1_g1::TRINITY_DN18437_c1_g1_i4::g.100574::m.100574	0	834	XP_018839607.1	U4/U6 small nuclear ribonucleoprotein PRP4-like protein	Juglans regia	XP_004516365.1
TRINITY_DN15963_c1_g1::TRINITY_DN15963_c1_g1_i1::g.59605::m.59605	0	776	XP_018836810.1	glucose-6-phosphate 1-dehydrogenase, chloroplastic-like isoform X2	Juglans regia	XP_018836809.1
TRINITY_DN17490_c0_g3::TRINITY_DN17490_c0_g3_i5::g.84477::m.84477	5,85E-110	333	XP_018842238.1	pollen receptor-like kinase 1	Juglans regia	KYP67551.1
TRINITY_DN19045_c3_g1::TRINITY_DN19045_c3_g1_i11::g.111100::m.111100	0	597	XP_018837119.1	uncharacterized protein LOC109003448 isoform X2	Juglans regia	XP_018837117.1
TRINITY_DN14763_c1_g1::TRINITY_DN14763_c1_g1_i5::g.41937::m.41937	0	655	XP_018844406.1	paired amphipathic helix protein Sin3-like 4	Juglans regia	XP_018844407.1
TRINITY_DN18733_c1_g5::TRINITY_DN18733_c1_g5_i2::g.105940::m.105940	0	816	XP_018821996.1	transmembrane and coiled-coil domain-containing protein 4	Juglans regia	OAY60830.1
TRINITY_DN11884_c0_g1::TRINITY_DN11884_c0_g1_i2::g.9315::m.9315	1,14E-155	442	XP_018837945.1	ATP-dependent Clp protease proteolytic subunit 4, chloroplastic	Juglans regia	XP_015963188.1
TRINITY_DN14042_c0_g1::TRINITY_DN14042_c0_g1_i1::g.31618::m.31618	0	1109	XP_018818763.1	ATPase family AAA domain-containing protein 3-like	Juglans regia	XP_018817154.1
TRINITY_DN19087_c0_g3::TRINITY_DN19087_c0_g3_i1::g.111646::m.111646	2,07E-61	188	XP_018850000.1	uncharacterized protein LOC109012689	Juglans regia	OAY59575.1
TRINITY_DN15486_c0_g3::TRINITY_DN15486_c0_g3_i1::g.52746::m.52746	4,89E-98	299	ONH92992.1	hypothetical protein PRUPE_8G206600	Prunus persica	XP_007201728.1
TRINITY_DN16817_c0_g1::TRINITY_DN16817_c0_g1_i3::g.73774::m.73774	0	1031	XP_018844424.1	acid beta-fructofuranosidase-like	Juglans regia	XP_018848119.1
TRINITY_DN17918_c1_g1::TRINITY_DN17918_c1_g1_i4::g.91866::m.91866	2,62E-43	149	XP_018840390.1	carbonyl reductase [NADPH 1-like]	Juglans regia	XP_018859664.1

TRINITY_DN19962_c5_g2::TRINITY_DN19962_c5_g2_i2::g.126940::m.126940	3,38E-86	267	XP_018824082.1	pectinesterase-like	Juglans regia	KDP33981.1
TRINITY_DN19385_c2_g1::TRINITY_DN19385_c2_g1_i13::g.117074::m.117074	6,19E-97	286	XP_008386967.1	uncharacterized protein LOC103449426	Malus domestica	XP_008359455.1
TRINITY_DN15599_c0_g1::TRINITY_DN15599_c0_g1_i1::g.54231::m.54231	1,58E-40	135	ONI03937.1	hypothetical protein PRUPE_6G292800	Prunus persica	XP_020420889.1
TRINITY_DN13743_c6_g3::TRINITY_DN13743_c6_g3_i1::g.27816::m.27816	1,34E-180	525	XP_018808771.1	phosphatidylinositol 4-phosphate 5-kinase 2-like	Juglans regia	XP_018842196.1
TRINITY_DN18919_c2_g1::TRINITY_DN18919_c2_g1_i5::g.108804::m.108804	0	1169	XP_018825045.1	uncharacterized protein LOC108994347 isoform X2	Juglans regia	XP_018825044.1
TRINITY_DN15799_c0_g1::TRINITY_DN15799_c0_g1_i6::g.55958::m.55958	1,22E-140	401	XP_018842015.1	endochitinase-like	Juglans regia	XP_018854709.1
TRINITY_DN15302_c0_g1::TRINITY_DN15302_c0_g1_i3::g.49970::m.49970	1,26E-163	470	XP_018817752.1	branched-chain-amino-acid aminotransferase-like protein 1	Juglans regia	XP_020212375.1
TRINITY_DN12400_c4_g2::TRINITY_DN12400_c4_g2_i2::g.12585::m.12585	5,27E-45	146	XP_018815679.1	cytochrome B5-like protein	Juglans regia	XP_018815680.1
TRINITY_DN16837_c1_g1::TRINITY_DN16837_c1_g1_i3::g.74278::m.74278	0	732	XP_018815872.1	probable mitochondrial saccharopine dehydrogenase-like oxidoreductase At5g39410	Juglans regia	ONI19128.1
TRINITY_DN19176_c1_g1::TRINITY_DN19176_c1_g1_i6::g.113373::m.113373						
TRINITY_DN13734_c2_g1::TRINITY_DN13734_c2_g1_i1::g.27715::m.27715	2,57E-167	466	XP_018820201.1	stem-specific protein TSJT1-like	Juglans regia	OAY24788.1
TRINITY_DN15824_c1_g1::TRINITY_DN15824_c1_g1_i3::g.57478::m.57478	0	535	XP_018808979.1	uncharacterized protein LOC108982137 isoform X1	Juglans regia	XP_018808980.1
TRINITY_DN17322_c1_g1::TRINITY_DN17322_c1_g1_i1::g.82026::m.82026	0	867	XP_018851184.1	trafficking protein particle complex subunit 8 isoform X1	Juglans regia	XP_018851185.1
TRINITY_DN18188_c2_g1::TRINITY_DN18188_c2_g1_i6::g.95147::m.95147	0	905	XP_018841822.1	golgin candidate 2-like	Juglans regia	XP_009356049.1
TRINITY_DN16641_c0_g1::TRINITY_DN16641_c0_g1_i7::g.70870::m.70870	0	527	XP_018828226.1	probable anion transporter 5	Juglans regia	XP_018828227.1
TRINITY_DN16217_c1_g2::TRINITY_DN16217_c1_g2_i6::g.64087::m.64087	0	629	XP_018835470.1	autophagy-related protein 18a-like isoform X2	Juglans regia	XP_018835469.1
TRINITY_DN17835_c3_g1::TRINITY_DN17835_c3_g1_i1::g.90619::m.90619	0	768	XP_018823556.1	myosin-2-like	Juglans regia	XP_018851729.1
TRINITY_DN16741_c1_g1::TRINITY_DN16741_c1_g1_i4::g.72580::m.72580	0	1082	XP_018807479.1	pre-mRNA-splicing factor CWC22 homolog	Juglans regia	XP_018830941.1
TRINITY_DN17827_c3_g3::TRINITY_DN17827_c3_g3_i1::g.90327::m.90327	0	541	XP_018839217.1	pollen receptor-like kinase 3	Juglans regia	XP_020414890.1
TRINITY_DN17200_c0_g1::TRINITY_DN17200_c0_g1_i7::g.79915::m.79915	1,18E-56	185	XP_018811115.1	uncharacterized protein LOC108983804 isoform X1	Juglans regia	XP_018811116.1
TRINITY_DN11631_c1_g1::TRINITY_DN11631_c1_g1_i4::g.8173::m.8173	2,95E-163	455	XP_018809788.1	glucose-induced degradation protein 8 homolog	Juglans regia	XP_018809789.1
TRINITY_DN14578_c1_g3::TRINITY_DN14578_c1_g3_i1::g.39119::m.39119	0	765	XP_018816480.1	S-adenosylmethionine synthase 5-like	Juglans regia	KDP23344.1

TRINITY_DN13605_c0_g1::TRINITY_DN13605_c0_g1_i3::g.26153::m.26153	1,84E-164	464	XP_018833855.1	probable sugar phosphate/phosphate translocator At3g17430	Juglans regia	OIV97317.1
TRINITY_DN14404_c3_g3::TRINITY_DN14404_c3_g3_i3::g.36554::m.36554	2,77E-133	395	XP_018854140.1	elongation factor G-2, mitochondrial	Juglans regia	GAU12992.1
TRINITY_DN15478_c1_g1::TRINITY_DN15478_c1_g1_i1::g.52474::m.52474	0	676	XP_018837780.1	3-hydroxyisobutyryl-CoA hydrolase-like protein 5 isoform X1	Juglans regia	XP_018837782.1
TRINITY_DN15217_c1_g2::TRINITY_DN15217_c1_g2_i9::g.48873::m.48873	0	542	XP_018818499.1	probable methyltransferase PMT5 isoform X3	Juglans regia	XP_018818500.1
TRINITY_DN13383_c0_g1::TRINITY_DN13383_c0_g1_i9::g.23043::m.23043	2,12E-115	336	XP_018834855.1	syntaxin-22-like	Juglans regia	KHN46828.1
TRINITY_DN16086_c0_g2::TRINITY_DN16086_c0_g2_i6::g.61825::m.61825	0	717	XP_018836235.1	uncharacterized protein LOC109002795 isoform X1	Juglans regia	XP_018836235.1
TRINITY_DN16643_c2_g1::TRINITY_DN16643_c2_g1_i2::g.70325::m.70325	1,22E-67	216	XP_018840718.1	E3 ubiquitin-protein ligase PRT1	Juglans regia	XP_008348988.1
TRINITY_DN19405_c0_g1::TRINITY_DN19405_c0_g1_i2::g.117368::m.117368	2,14E-119	345	XP_018825743.1	multiple organellar RNA editing factor 3, mitochondrial-like	Juglans regia	XP_018825744.1
TRINITY_DN13456_c0_g1::TRINITY_DN13456_c0_g1_i3::g.24091::m.24091	0	619	XP_018814087.1	WPP domain-interacting protein 2	Juglans regia	XP_018814096.1
TRINITY_DN10846_c0_g1::TRINITY_DN10846_c0_g1_i1::g.5657::m.5657	1,21E-95	279	XP_018847950.1	uncharacterized protein LOC109011278	Juglans regia	ONI14076.1
TRINITY_DN17937_c1_g6::TRINITY_DN17937_c1_g6_i1::g.92221::m.92221	5,56E-70	216	XP_018858704.1	uncharacterized protein LOC109020641 isoform X2	Juglans regia	XP_018858710.1
TRINITY_DN14048_c1_g1::TRINITY_DN14048_c1_g1_i1::g.31820::m.31820	5,99E-98	287	XP_018836255.1	ER membrane protein complex subunit 7 homolog	Juglans regia	XP_012068149.1
TRINITY_DN15198_c1_g3::TRINITY_DN15198_c1_g3_i1::g.48326::m.48326	0	932	XP_018843375.1	WD-40 repeat-containing protein MSI4-like	Juglans regia	XP_008228297.1
TRINITY_DN13739_c0_g1::TRINITY_DN13739_c0_g1_i1::g.27726::m.27726	5,02E-77	244	XP_018820691.1	protein S-acyltransferase 24	Juglans regia	XP_004508416.1
TRINITY_DN18544_c2_g2::TRINITY_DN18544_c2_g2_i1::g.102351::m.102351	0	1192	KDP36832.1	hypothetical protein JCGZ_08123	Jatropha curcas	XP_012073680.1
TRINITY_DN13630_c0_g1::TRINITY_DN13630_c0_g1_i5::g.26390::m.26390	0	1311	XP_018830564.1	uncharacterized protein LOC108998470	Juglans regia	XP_018830564.1
TRINITY_DN14180_c0_g1::TRINITY_DN14180_c0_g1_i2::g.33272::m.33272	0	556	XP_008236505.1	alpha-amylase-like isoform X2	Prunus mume	XP_016650792.1
TRINITY_DN8216_c0_g1::TRINITY_DN8216_c0_g1_i1::g.2536::m.2536	1,58E-83	274	XP_018853114.1	uncharacterized protein LOC109015083, partial	Juglans regia	XP_018816058.1
TRINITY_DN19280_c0_g1::TRINITY_DN19280_c0_g1_i3::g.115040::m.115040	4,57E-44	155	XP_018838909.1	uncharacterized protein LOC109004724 isoform X2	Juglans regia	XP_018838910.1
TRINITY_DN16993_c0_g3::TRINITY_DN16993_c0_g3_i3::g.76730::m.76730	0	768	XP_018812834.1	probable galacturonosyltransferase 4 isoform X1	Juglans regia	XP_018812835.1
TRINITY_DN19939_c3_g1::TRINITY_DN19939_c3_g1_i7::g.125684::m.125684	0	601	KDP30449.1	hypothetical protein JCGZ_17137	Jatropha curcas	XP_012081018.1
TRINITY_DN19123_c0_g2::TRINITY_DN19123_c0_g2_i1::g.112423::m.112423	0	952	XP_018810077.1	ubiquitin fusion degradation protein 1	Juglans regia	XP_008229992.1

TRINITY_DN13782_c0_g3::TRINITY_DN13782_c0_g3_i2::g.28223::m.28223	4,16E-64	197	XP_018822750.1	28 kDa heat- and acid-stable phosphoprotein-like isoform X1	Juglans regia	XP_018850063.1
TRINITY_DN15101_c4_g1::TRINITY_DN15101_c4_g1_i4::g.45560::m.45560	0	752	XP_014501058.1	probable 26S proteasome non-ATPase regulatory subunit 3	Vigna radiata var. radiata	XP_016167375.1
TRINITY_DN18181_c1_g1::TRINITY_DN18181_c1_g1_i3::g.96440::m.96440	2,19E-178	502	XP_018845549.1	uncharacterized protein LOC109009507 isoform X2	Juglans regia	XP_018845548.1
TRINITY_DN13858_c5_g2::TRINITY_DN13858_c5_g2_i2::g.29432::m.29432	6,45E-140	394	XP_018850336.1	trafficking protein particle complex subunit 5	Juglans regia	KDP38658.1
TRINITY_DN19625_c0_g5::TRINITY_DN19625_c0_g5_i9::g.121168::m.121168	4,53E-60	212	XP_018824531.1	altered inheritance of mitochondria protein 44	Juglans regia	XP_018824531.1
TRINITY_DN17351_c1_g1::TRINITY_DN17351_c1_g1_i15::g.82398::m.82398	6,03E-109	318	KDP35530.1	hypothetical protein JCGZ_08968	Jatropha curcas	XP_012074814.1
TRINITY_DN12181_c0_g1::TRINITY_DN12181_c0_g1_i6::g.10945::m.10945	7,92E-99	292	XP_018834236.1	protein phosphatase methylesterase 1	Juglans regia	XP_018834237.1
TRINITY_DN17453_c0_g6::TRINITY_DN17453_c0_g6_i1::g.83881::m.83881	2,39E-47	159	XP_018829738.1	apoptosis-inducing factor homolog B-like	Juglans regia	KYP68674.1
TRINITY_DN17009_c5_g2::TRINITY_DN17009_c5_g2_i5::g.77303::m.77303	4,86E-159	462	XP_018833426.1	cationic amino acid transporter 2, vacuolar-like isoform X2	Juglans regia	XP_018833425.1
TRINITY_DN18349_c3_g1::TRINITY_DN18349_c3_g1_i4::g.99210::m.99210	0	578	XP_018823061.1	DEAD-box ATP-dependent RNA helicase 14 isoform X1	Juglans regia	XP_018823062.1
TRINITY_DN12974_c0_g1::TRINITY_DN12974_c0_g1_i2::g.18074::m.18074	0	830	XP_018812515.1	MAR-binding filament-like protein 1-1 isoform X1	Juglans regia	XP_018812517.1
TRINITY_DN13246_c1_g2::TRINITY_DN13246_c1_g2_i1::g.21483::m.21483	0	575	OAY47012.1	hypothetical protein MANES_06G045500	Manihot esculenta	ONH98475.1
TRINITY_DN19497_c1_g4::TRINITY_DN19497_c1_g4_i2::g.118818::m.118818	0	695	XP_018807250.1	protein DETOXIFICATION 27-like	Juglans regia	XP_018807251.1
TRINITY_DN13446_c0_g3::TRINITY_DN13446_c0_g3_i1::g.23949::m.23949	0	624	XP_018848451.1	2-alkenal reductase (NADP(+)-dependent)-like	Juglans regia	XP_018848449.1
TRINITY_DN14491_c0_g1::TRINITY_DN14491_c0_g1_i2::g.37893::m.37893	1,59E-101	304	ONH90030.1	hypothetical protein PRUPE_8G031200	Prunus persica	XP_020426098.1
TRINITY_DN19064_c0_g1::TRINITY_DN19064_c0_g1_i3::g.111228::m.111228	0	651	XP_018851432.1	ABC transporter G family member 9	Juglans regia	XP_018851432.1
TRINITY_DN17932_c0_g2::TRINITY_DN17932_c0_g2_i2::g.92648::m.92648	2,32E-152	449	XP_018837790.1	kinesin-like protein KIN-4C, partial	Juglans regia	OAY23187.1
TRINITY_DN14711_c0_g4::TRINITY_DN14711_c0_g4_i1::g.40962::m.40962	1,06E-160	462	XP_018842745.1	stomatin-like protein 2, mitochondrial	Juglans regia	XP_018828153.1
TRINITY_DN13915_c0_g2::TRINITY_DN13915_c0_g2_i2::g.30373::m.30373	1,85E-57	189	XP_018849269.1	phosphoacetylglucosamine mutase-like	Juglans regia	XP_018838256.1
TRINITY_DN9332_c0_g1::TRINITY_DN9332_c0_g1_i2::g.3344::m.3344	2,29E-146	417	XP_018851371.1	biotin--protein ligase 2-like	Juglans regia	ONI34885.1
TRINITY_DN10896_c0_g1::TRINITY_DN10896_c0_g1_i3::g.5759::m.5759	1,24E-61	195	XP_018858553.1	beta carbonic anhydrase 5, chloroplastic-like	Juglans regia	KHN26133.1
TRINITY_DN15257_c0_g2::TRINITY_DN15257_c0_g2_i2::g.49306::m.49306	4,12E-111	323	XP_018844469.1	N-alpha-acetyltransferase daf-31	Juglans regia	XP_016171058.1

TRINITY_DN14993_c0_g1::TRINITY_DN14993_c0_g1_i2::g.45400::m.45400	0	552	XP_018844413.1	uncharacterized protein LOC109008682	Juglans regia	ONH97583.1
TRINITY_DN15366_c1_g1::TRINITY_DN15366_c1_g1_i4::g.50810::m.50810	0	864	XP_018851051.1	transmembrane protein 87B	Juglans regia	XP_018851052.1
TRINITY_DN11457_c0_g1::TRINITY_DN11457_c0_g1_i1::g.7427::m.7427	1,55E-145	425	XP_018823191.1	nucleolar protein 56-like	Juglans regia	XP_018811309.1
TRINITY_DN12510_c1_g1::TRINITY_DN12510_c1_g1_i1::g.13448::m.13448	0	1038	XP_018836549.1	uncharacterized protein LOC109003048	Juglans regia	OAY23471.1
TRINITY_DN17907_c0_g1::TRINITY_DN17907_c0_g1_i1::g.91817::m.91817	0	974	XP_018819524.1	protein SAND	Juglans regia	ONI00709.1
TRINITY_DN18531_c0_g1::TRINITY_DN18531_c0_g1_i9::g.102220::m.102220	9,95E-76	225	XP_007160081.1	hypothetical protein PHAVU_002G2910001g, partial	Phaseolus vulgaris	ESW32075.1
TRINITY_DN13896_c0_g4::TRINITY_DN13896_c0_g4_i4::g.30042::m.30042	8,80E-155	446	XP_018826785.1	putative clathrin assembly protein At5g35200	Juglans regia	XP_018826786.1
TRINITY_DN49420_c0_g1::TRINITY_DN49420_c0_g1_i1::g.132815::m.132815	1,86E-97	295	XP_018851398.1	probable nucleoredoxin 1 isoform X2	Juglans regia	XP_018851398.1
TRINITY_DN1207_c0_g1::TRINITY_DN1207_c0_g1_i1::g.307::m.307	0	1017	XP_018838954.1	cytosolic endo-beta-N-acetylglucosaminidase 1 isoform X1	Juglans regia	XP_009345357.1
TRINITY_DN16954_c2_g1::TRINITY_DN16954_c2_g1_i2::g.76223::m.76223	1,08E-113	349	XP_018840969.1	uncharacterized protein LOC109006211	Juglans regia	ONI31989.1
TRINITY_DN18548_c0_g1::TRINITY_DN18548_c0_g1_i9::g.102424::m.102424	3,98E-87	261	XP_018825058.1	elongation factor 1-delta-like	Juglans regia	XP_018825059.1
TRINITY_DN14063_c0_g1::TRINITY_DN14063_c0_g1_i1::g.31854::m.31854	1,26E-163	463	XP_018825639.1	GPN-loop GTPase 1-like	Juglans regia	XP_018825640.1
TRINITY_DN9524_c0_g1::TRINITY_DN9524_c0_g1_i2::g.3575::m.3575	2,27E-168	473	AFK35142.1	unknown	Medicago truncatula	AJE71963.1
TRINITY_DN14887_c2_g3::TRINITY_DN14887_c2_g3_i1::g.43865::m.43865	0	767	XP_018808420.1	uridine-cytidine kinase C-like isoform X1	Juglans regia	XP_018808421.1
TRINITY_DN12560_c1_g1::TRINITY_DN12560_c1_g1_i3::g.13781::m.13781	1,36E-127	367	XP_018808547.1	UBP1-associated protein 2A-like	Juglans regia	XP_018808547.1
TRINITY_DN12634_c0_g1::TRINITY_DN12634_c0_g1_i2::g.14412::m.14412	0	874	XP_018840672.1	uncharacterized protein LOC109005996 isoform X2	Juglans regia	XP_018840671.1
TRINITY_DN16146_c1_g1::TRINITY_DN16146_c1_g1_i2::g.62212::m.62212	0	796	XP_018816881.1	WPP domain-interacting tail-anchored protein 1-like	Juglans regia	XP_018816882.1
TRINITY_DN16454_c2_g1::TRINITY_DN16454_c2_g1_i4::g.67739::m.67739	1,22E-46	182	XP_018822557.1	nuclear pore complex protein NUP98A	Juglans regia	XP_018822557.1
TRINITY_DN5515_c0_g1::TRINITY_DN5515_c0_g1_i1::g.1365::m.1365	0	523	XP_018813360.1	protein arginine N-methyltransferase 1.5-like	Juglans regia	XP_018845692.1
TRINITY_DN37417_c0_g1::TRINITY_DN37417_c0_g1_i1::g.131078::m.131078	6,76E-117	369	XP_018814633.1	putative E3 ubiquitin-protein ligase LIN-1	Juglans regia	XP_018502155.1
TRINITY_DN17093_c0_g1::TRINITY_DN17093_c0_g1_i9::g.78387::m.78387	1,18E-109	337	XP_018845097.1	golgin candidate 3-like isoform X2	Juglans regia	XP_018845095.1
TRINITY_DN16772_c0_g1::TRINITY_DN16772_c0_g1_i3::g.72983::m.72983	0	1217	XP_018814980.1	probable galactinol--sucrose galactosyltransferase 2	Juglans regia	XP_012079949.1

TRINITY_DN15339_c4_g4::TRINITY_DN15339_c4_g4_i1::g.49925::m.49925	8,79E-54	177	XP_018825639.1	GPN-loop GTPase 1-like	Juglans regia	XP_018825640.1
TRINITY_DN15754_c0_g4::TRINITY_DN15754_c0_g4_i1::g.56661::m.56661	2,31E-59	186	XP_018859034.1	protein YLS9-like	Juglans regia	XP_018851215.1
TRINITY_DN16687_c0_g1::TRINITY_DN16687_c0_g1_i2::g.71593::m.71593	0	963	XP_018815434.1	HEAT repeat-containing protein 5B isoform X2	Juglans regia	XP_018815433.1
TRINITY_DN49712_c0_g1::TRINITY_DN49712_c0_g1_i1::g.132845::m.132845	5,74E-70	231	XP_018807961.1	long-chain-alcohol oxidase FAO1	Juglans regia	XP_008224323.1
TRINITY_DN15478_c0_g1::TRINITY_DN15478_c0_g1_i13::g.52472::m.52472	7,72E-69	221	XP_018808171.1	putative E3 ubiquitin-protein ligase XBAT35	Juglans regia	XP_018842288.1
TRINITY_DN13615_c2_g2::TRINITY_DN13615_c2_g2_i1::g.26300::m.26300	6,19E-79	233	OAY55698.1	hypothetical protein MANES_03G173600	Manihot esculenta	OAY55700.1
TRINITY_DN15422_c1_g1::TRINITY_DN15422_c1_g1_i1::g.51639::m.51639	0	554	XP_018850906.1	lanC-like protein GCL2	Juglans regia	ONI17390.1
TRINITY_DN17700_c2_g2::TRINITY_DN17700_c2_g2_i11::g.86871::m.86871	3,15E-58	187	XP_018825560.1	DNA-(apurinic or apyrimidinic site) lyase	Juglans regia	ONI08144.1
TRINITY_DN13585_c0_g1::TRINITY_DN13585_c0_g1_i3::g.25706::m.25706	3,56E-129	369	XP_018830849.1	uncharacterized protein LOC108998659	Juglans regia	OAY30439.1
TRINITY_DN16933_c4_g2::TRINITY_DN16933_c4_g2_i2::g.75851::m.75851	4,77E-94	281	XP_009373531.1	phosphoribosylaminoimidazole-succinocarboxamide synthase, chloroplastic	Pyrus x bretschneideri	XP_018844624.1
TRINITY_DN11228_c0_g1::TRINITY_DN11228_c0_g1_i4::g.6693::m.6693	2,32E-38	129	KOM25909.1	hypothetical protein LR48_Vigan205s004600	Vigna angularis	BAT74108.1
TRINITY_DN17776_c0_g1::TRINITY_DN17776_c0_g1_i2::g.89550::m.89550	2,18E-150	427	XP_018835582.1	probable carboxylesterase 13	Juglans regia	XP_009358071.1
TRINITY_DN17420_c0_g2::TRINITY_DN17420_c0_g2_i5::g.83586::m.83586	6,01E-142	403	CAI83772.1	glyceraldehyde-3-phosphate-dehydrogenase	Lupinus albus	KEH35270.1
TRINITY_DN11534_c0_g1::TRINITY_DN11534_c0_g1_i5::g.7773::m.7773	1,91E-165	463	XP_018850845.1	NADPH-dependent 1-acyldihydroxyacetone phosphate reductase-like	Juglans regia	XP_018846462.1
TRINITY_DN13275_c3_g1::TRINITY_DN13275_c3_g1_i7::g.21820::m.21820	1,45E-147	416	XP_018814423.1	thaumatin-like protein	Juglans regia	ONI24401.1
TRINITY_DN14670_c2_g3::TRINITY_DN14670_c2_g3_i4::g.40396::m.40396	5,87E-72	216	XP_018816108.1	uncharacterized protein At3g03773 isoform X2	Juglans regia	XP_018816104.1
TRINITY_DN15660_c2_g1::TRINITY_DN15660_c2_g1_i4::g.55101::m.55101	9,97E-163	458	XP_018814132.1	rhomboid-like protein 20	Juglans regia	XP_018850955.1
TRINITY_DN15833_c5_g1::TRINITY_DN15833_c5_g1_i8::g.57893::m.57893	1,33E-57	184	XP_008346894.1	probable ADP-ribosylation factor GTPase-activating protein AGD15	Malus domestica	XP_019434874.1
TRINITY_DN18852_c0_g2::TRINITY_DN18852_c0_g2_i1::g.107431::m.107431	0	532	XP_018807382.1	putative G3BP-like protein	Juglans regia	XP_018850163.1
TRINITY_DN18971_c1_g2::TRINITY_DN18971_c1_g2_i2::g.109643::m.109643	3,99E-56	183	XP_018818482.1	ureide permease 1-like	Juglans regia	XP_018818483.1
TRINITY_DN19418_c3_g2::TRINITY_DN19418_c3_g2_i3::g.117519::m.117519	1,43E-80	237	KRH19367.1	hypothetical protein GLYMA_13G113400	Glycine max	XP_006593963.1
TRINITY_DN36814_c0_g1::TRINITY_DN36814_c0_g1_i1::g.130975::m.130975	7,37E-51	176	XP_018819496.1	serine/threonine-protein kinase D6PK-like	Juglans regia	XP_018819503.1

Supplementary Table S7: Pfam annotation of identified Alnus pollen proteins

Protein IDs	Peptide counts (all)	Sequence coverage [%]	Mol. weight [kDa]	Score	Pfam accession	Pfam family name	bitscore	e-value [Pfam]	clan
ARUBRA_DN3160_c0_g1_i1_1	7	34,1	24,216	323,31	PF00407.18	Bet_v_1	91,9	3,20E-26	CL0209
ARHOMBI_DN6124_c0_g1_i1_4	21	50,8	53,381	323,31	PF00162.18	PGK	558,1	8,00E-168	No_clan
ARUBRA_DN4553_c0_g1_i1_3	10	45,8	29,745	323,31	PF00160.20	Pro_isomerase	161,8	1,40E-47	CL0475
ARUBRA_DN4458_c0_g1_i1_5	29	58,1	54,26	323,31	PF07992.13	Pyr_redox_2	192,7	7,40E-57	CL0063
ARHOMBI_DN14767_c0_g1_i1_6	1	11,6	9,3606	6,3174					
ARUBRA_DN4969_c0_g1_i11_2	9	34,4	29,337	323,31	PF00076.21	RRM_1	78,6	2,20E-22	CL0221
ARUBRA_DN4696_c0_g1_i2_3	17	53,3	36,513	323,31	PF13417.5	GST_N_3	78,9	2,70E-22	CL0172
ARUBRA_DN4914_c0_g1_i1_2	14	40,3	45,648	323,31	PF01370.20	Epimerase	56,4	2,70E-15	CL0063
ARUBRA_DN3195_c0_g1_i1_6	15	44,9	42,543	323,31	PF05368.12	NmrA	288,1	4,50E-86	CL0063
ARUBRA_DN2052_c0_g1_i1_5	15	43,9	37,581	323,31	PF00141.22	peroxidase	150	7,70E-44	CL0617
ARUBRA_DN17603_c0_g1_i1_4	8	34,6	22,986	323,31	PF00240.22	ubiquitin	115,3	7,10E-34	CL0072
ARUBRA_DN23118_c0_g1_i1_1	8	31,7	26,501	323,31	PF00235.18	Profilin	146,8	3,50E-43	CL0431
ARHOMBI_DN3404_c0_g1_i1_5	11	37,8	42,66	323,31	PF00903.24	Glyoxalase	80,4	1,10E-22	CL0104
ARHOMBI_DN8875_c0_g1_i1_3	17	63,3	39,824	323,31	PF01263.19	Aldose_epim	296,8	1,60E-88	CL0103
ARUBRA_DN10871_c0_g1_i1_1	9	55,8	18,214	323,31	PF00462.23	Glutaredoxin	75,4	2,70E-21	CL0172
ARHOMBI_DN3889_c0_g1_i1_5	16	51,7	45,246	323,31	PF00248.20	Aldo_ket_red	166,9	5,20E-49	No_clan
ARHOMBI_DN5373_c0_g1_i1_4	27	44,5	74,905	323,31	PF01676.17	Metalloenzyme	341,7	1,90E-102	CL0088
ARUBRA_DN4854_c0_g1_i1_3	8	35,1	35,259	227,12	PF00255.18	GSHPx	140	1,80E-41	CL0172
ARUBRA_DN1249_c0_g2_i1_2	6	34,9	20,83	323,31	PF00254.27	FKBP_C	114,7	1,70E-33	CL0487
ARHOMBI_DN5306_c0_g1_i1_6	11	38,5	39,025	323,31	PF00121.17	TIM	291,6	3,80E-87	CL0036
ARUBRA_DN5302_c0_g1_i1_5	20	59,3	43,443	323,31	PF01704.17	UDPGP	443,5	5,40E-133	CL0110
ARHOMBI_DN26299_c0_g1_i1_4	5	55,2	9,6625	190,49					
ARHOMBI_DN5459_c0_g1_i1_2	20	42,7	57,574	323,31	PF00923.18	TAL_FSA	257,3	1,60E-76	CL0036
ARHOMBI_DN5273_c0_g1_i1_3	6	28	26,759	97,01	PF00080.19	Sod_Cu	161,2	1,50E-47	No_clan
ARHOMBI_DN1417_c0_g1_i1_5	3	62,6	9,3579	323,31	PF00313.21	CSD	93,9	3,60E-27	CL0021
ARHOMBI_DN5581_c0_g1_i1_3	10	21,5	33,285	323,31	PF13499.5	EF-hand_7	54,4	1,20E-14	CL0220
ARUBRA_DN2313_c0_g1_i1_3	3	22,8	19,653	323,31					
ARUBRA_DN9810_c0_g1_i1_4	7	34,6	29,588	163,28	PF01738.17	DLH	190,8	2,10E-56	CL0028

ARHOMBI_DN6211_c0_g2_i1_6	7	22,3	32,503	262,42	PF00838.16	TCTP	193,1	3,80E-57	CL0080
ARUBRA_DN22898_c0_g1_i1_5	15	35,6	46,645	323,31	PF00056.22	Ldh_1_N	112,9	1,10E-32	CL0063
ARUBRA_DN2253_c0_g1_i1_1	17	50,4	43,625	323,31	PF02880.15	PGM_PMM_III	102	1,90E-29	No_clan
ARHOMBI_DN4873_c0_g1_i1_4	19	47,6	47,456	323,31	PF16884.4	ADH_N_2	84,7	3,40E-24	CL0296
ARUBRA_DN18206_c0_g1_i1_4	2	23,4	12,962	323,31	PF04043.14	PMEI	41,9	1,10E-10	No_clan
ARUBRA_DN6222_c0_g1_i1_5	13	46,3	29,984	323,31	PF13405.5	EF-hand_6	27,9	1,20E-06	CL0220
ARHOMBI_DN5949_c0_g2_i1_6	23	48,3	58,331	323,31	PF03952.15	Enolase_N	182,4	3,60E-54	CL0227
ARHOMBI_DN4456_c0_g1_i1_5	12	32,3	52,071	323,31	PF00903.24	Glyoxalase	78,8	3,60E-22	CL0104
ARUBRA_DN390_c0_g1_i1_5	8	55,9	19,043	323,31	PF01704.17	UDPGP	158,5	1,80E-46	CL0110
ARUBRA_DN4992_c0_g1_i1_3	12	31,9	41,564	237,26	PF08241.11	Methyltransf_11	40,6	2,80E-10	CL0063
ARHOMBI_DN5841_c0_g1_i1_5	6	21,3	38,228	196,77	PF00071.21	Ras	167,6	1,50E-49	CL0023
ARHOMBI_DN6196_c0_g1_i2_5	13	41,8	43,772	323,31	PF08240.11	ADH_N	81,1	4,40E-23	CL0296
ARHOMBI_DN3043_c0_g1_i1_4	4	22,4	21,321	266,82	PF00254.27	FKBP_C	86,3	1,20E-24	CL0487
ARUBRA_DN4475_c0_g1_i1_2	12	51,3	29,532	323,31	PF08718.10	GLTP	151,9	1,40E-44	No_clan
ARUBRA_DN1141_c0_g1_i1_1	4	24	16,446	323,31	PF11976.7	Rad60-SLD	65,7	2,30E-18	CL0072
ARHOMBI_DN3285_c0_g1_i1_6	11	58,9	28,375	233,05	PF00248.20	Aldo_ket_red	148,2	2,60E-43	No_clan
ARUBRA_DN10174_c0_g1_i1_6	9	43,9	20,368	323,31	PF06110.10	DUF953	129	5,90E-38	CL0172
ARHOMBI_DN7524_c0_g1_i1_6	7	26,3	28,025	127,34	PF00160.20	Pro_isomerase	157,9	2,20E-46	CL0475
ARHOMBI_DN4459_c0_g1_i1_3	3	20,4	23,091	304,7	PF01187.17	MIF	78,4	4,70E-22	CL0082
ARHOMBI_DN6146_c1_g1_i1_4	25	35,6	103,77	323,31	PF08267.11	Meth_synt_1	394,1	4,90E-118	CL0160
ARUBRA_DN4074_c0_g1_i1_4	2	6,2	27,262	106,21	PF00550.24	PP-binding	44,4	1,40E-11	CL0314
ARHOMBI_DN3575_c0_g1_i1_3	11	48,9	29,074	323,31	PF13419.5	HAD_2	101,7	4,40E-29	CL0137
ARHOMBI_DN4328_c0_g1_i1_6	12	44,7	36,339	323,31	PF00106.24	adh_short	90,5	8,80E-26	CL0063
ARUBRA_DN411_c0_g1_i1_5	3	14,1	30,356	147,32					
ARHOMBI_DN3323_c0_g1_i1_4	5	20,5	28,15	109,76	PF00034.20	Cytochrom_C	47,2	3,40E-12	CL0318
ARHOMBI_DN5928_c0_g3_i2_6	2	24,2	13,458	27,654	PF00179.25	UQ_con	139,8	4,20E-41	CL0208
ARUBRA_DN4841_c0_g1_i1_6	13	31,8	49,329	246,1	PF13460.5	NAD_binding_10	116	1,60E-33	CL0063
ARHOMBI_DN6080_c1_g1_i1_1	8	37,6	19,325	323,31	PF16845.4	SQAPI	81	5,60E-23	CL0121
ARUBRA_DN16244_c0_g1_i1_2	13	41	47,717	323,31	PF00294.23	PfkB	262,3	5,10E-78	CL0118
ARUBRA_DN18719_c0_g1_i1_2	6	51	16,126	142,18	PF00121.17	TIM	177,7	2,20E-52	CL0036
ARHOMBI_DN4484_c0_g1_i1_2	3	23,8	26,54	118,88	PF00235.18	Profilin	146,5	4,20E-43	CL0431
ARHOMBI_DN5698_c2_g1_i1_5	4	35,5	12,189	323,31	PF02970.15	TBCA	96,9	6,30E-28	No_clan

ARHOMBI_DN15379_c0_g1_i1_6	8	23,8	44,252	217,5					
ARUBRA_DN10745_c0_g1_i1_4	1	5,9	18,314	80,065	PF00168.29	C2	55,8	4,10E-15	CL0154
ARUBRA_DN17745_c0_g1_i1_5	5	24,5	32,7	323,31	PF06521.10	PAR1	244,9	2,20E-73	No_clan
ARUBRA_DN16936_c0_g1_i1_5	6	22,5	31,256	241,25	PF00179.25	UQ_con	48,4	6,50E-13	CL0208
ARUBRA_DN4620_c0_g1_i1_1	25	34,2	89,51	323,31	PF02518.25	HATPase_c	59,2	4,80E-16	CL0025
ARUBRA_DN4102_c0_g1_i1_3	18	34,9	59,731	309,56	PF00262.17	Calreticulin	202,1	1,10E-59	CL0004
ARHOMBI_DN9782_c0_g1_i1_2	3	59,3	8,5917	93,118					
ARUBRA_DN4847_c0_g2_i2_1	12	34,3	43,301	323,31	PF00248.20	Aldo_ket_red	247,8	1,10E-73	No_clan
ARUBRA_DN5827_c0_g1_i1_2	4	63,6	8,2416	54,372	PF01263.19	Aldose_epim	73,7	1,40E-20	CL0103
ARHOMBI_DN3150_c0_g1_i1_6	16	71,5	24,822	323,31	PF08544.12	GHMP_kinases_C	49,9	3,00E-13	No_clan
ARHOMBI_DN3869_c0_g1_i1_1	7	30,7	28,284	132,27	PF00160.20	Pro_isomerase	169,2	7,50E-50	CL0475
ARHOMBI_DN4569_c0_g1_i1_2	5	25,7	21,434	60,77	PF00887.18	ACBP	97,1	4,70E-28	CL0632
ARHOMBI_DN8000_c0_g1_i1_4	6	53,1	15,239	323,31					
ARHOMBI_DN10026_c0_g1_i1_5	5	31,9	22,804	323,31	PF00462.23	Glutaredoxin	66,7	1,50E-18	CL0172
ARHOMBI_DN3561_c0_g2_i1_2	5	23,8	21,619	323,31	PF00173.27	Cyt-b5	57,5	1,00E-15	No_clan
ARHOMBI_DN18818_c0_g1_i1_2	7	26,6	29,367	126,72	PF01597.18	GCV_H	161,6	6,50E-48	CL0105
ARUBRA_DN19744_c0_g1_i1_2	12	38,4	34,272	323,31					
ARHOMBI_DN5210_c0_g1_i1_5	8	28,5	49,455	122,42	PF00400.31	WD40	14,6	0,044	CL0186
ARHOMBI_DN5071_c0_g1_i1_6	9	24,3	42,408	187,27	PF00141.22	peroxidase	171,5	2,00E-50	CL0617
ARUBRA_DN24356_c0_g1_i1_4	4	37,6	15,641	323,31	PF02136.19	NTF2	124,8	2,40E-36	CL0051
ARHOMBI_DN25271_c0_g1_i1_5	1	11,2	10,999	6,4204					
ARUBRA_DN4454_c0_g1_i1_2	6	24,5	33,738	169,57	PF01095.18	Pectinesterase	373,5	4,40E-112	CL0268
ARHOMBI_DN6208_c0_g1_i2_5	15	27,8	67,483	161,74	PF05221.16	AdoHcyase	476,7	2,20E-143	CL0325
ARHOMBI_DN1745_c0_g1_i1_2	12	27,2	58,334	323,31	PF02847.16	MA3	89,5	1,20E-25	CL0020
ARUBRA_DN21566_c0_g1_i1_2	9	25,2	37,928	323,31	PF00481.20	PP2C	226,4	4,20E-67	CL0238
ARUBRA_DN4108_c0_g1_i1_5	7	21,5	42,883	323,31	PF00719.18	Pyrophosphatase	158,3	1,20E-46	No_clan
ARHOMBI_DN5571_c0_g1_i1_5	10	39,3	36,829	323,31	PF00736.18	EF1_GNE	112	1,10E-32	No_clan
ARUBRA_DN4060_c0_g2_i1_2	7	28,9	28,423	323,31	PF01042.20	Ribonuc_L-PSP	137,3	2,30E-40	CL0534
ARHOMBI_DN6185_c1_g1_i1_5	3	8,9	29,918	49,476	PF13410.5	GST_C_2	38,1	1,10E-09	CL0497
ARHOMBI_DN5260_c0_g1_i1_6	8	27,8	34,435	323,31	PF00071.21	Ras	221,2	4,80E-66	CL0023

ARHOMBI_DN6086_c1_g1_i1_6	13	43,2	48,26	116,6	PF00022.18	Actin	490,5	2,80E-147	CL0108
ARUBRA_DN4124_c0_g1_i1_3	17	41,6	62,39	274,65	PF02874.22	ATP-synt_ab_N	72,4	3,10E-20	CL0275
ARHOMBI_DN6236_c1_g1_i3_6	9	25,1	48,97	323,31	PF00248.20	Aldo_ket_red	264	1,30E-78	No_clan
ARHOMBI_DN5869_c0_g1_i1_6	12	35,4	49,496	323,31	PF00085.19	Thioredoxin	106,1	7,50E-31	CL0172
ARUBRA_DN4641_c0_g1_i1_2	23	36,8	84,837	253,95	PF00012.19	HSP70	868,6	1,70E-261	CL0108
ARUBRA_DN23856_c0_g1_i1_3	4	42,6	16,9	323,31	PF00076.21	RRM_1	83,4	6,60E-24	CL0221
ARHOMBI_DN5685_c0_g2_i1_3	15	41,4	51,652	323,31	PF00274.18	Glycolytic	572,1	2,80E-172	CL0035
ARUBRA_DN3590_c0_g2_i1_3	15	43	41,919	323,31	PF00121.17	TIM	301,2	4,30E-90	CL0036
ARHOMBI_DN3136_c0_g1_i1_1	7	26	33,914	308,89	PF00071.21	Ras	192,2	4,00E-57	CL0023
ARUBRA_DN4556_c0_g1_i2_4	15	32,4	59,027	323,31	PF02798.19	GST_N	59,1	3,90E-16	CL0172
ARHOMBI_DN24422_c0_g1_i1_5	5	35,9	16,794	142,1	PF00121.17	TIM	141,8	2,20E-41	CL0036
ARUBRA_DN990_c0_g1_i1_1	5	28,2	24,546	323,31	PF00173.27	Cyt-b5	91,6	2,30E-26	No_clan
ARUBRA_DN1071_c0_g1_i1_2	8	55,7	21,957	323,31	PF01965.23	DJ-1_PfpI	54,9	8,40E-15	CL0014
ARUBRA_DN2969_c0_g1_i1_3	7	74,7	10,875	323,31	PF00248.20	Aldo_ket_red	52,4	4,00E-14	No_clan
ARHOMBI_DN4165_c0_g1_i1_1	1	4,2	26,385	8,7766	PF02136.19	NTF2	127,2	4,40E-37	CL0051
ARHOMBI_DN5934_c0_g1_i1_3	17	32,3	71,276	323,31	PF00085.19	Thioredoxin	102,7	8,10E-30	CL0172
ARHOMBI_DN5622_c0_g1_i1_3	17	48,1	38,072	323,31					
ARHOMBI_DN4656_c0_g1_i1_6	7	33,6	30,257	185,23	PF08534.9	Redoxin	110,8	4,10E-32	CL0172
ARHOMBI_DN6034_c0_g1_i2_3	25	33,3	93,341	323,31	PF00012.19	HSP70	872,1	1,50E-262	CL0108
ARHOMBI_DN6068_c0_g1_i2_3	21	24,5	106,57	219,42	PF02518.25	HATPase_c	47,4	2,30E-12	CL0025
ARHOMBI_DN1849_c0_g1_i1_3	13	34,8	45,107	323,31	PF00996.17	GDI	682,6	1,60E-205	CL0063
ARUBRA_DN8471_c0_g1_i1_3	1	4,2	17,571	17,945					
ARUBRA_DN2937_c0_g1_i2_1	12	56,7	33,525	148,61	PF00044.23	Gp_dh_N	36,4	4,90E-09	CL0063
ARUBRA_DN6062_c0_g1_i1_1	7	32,2	25,189	71,801	PF01230.22	HIT	100,5	6,10E-29	CL0265
ARHOMBI_DN5785_c0_g1_i1_4	6	19,1	48,462	323,31	PF12819.6	Malectin_like	129,1	1,90E-37	CL0468
ARHOMBI_DN3876_c0_g1_i1_6	12	34,7	50,683	323,31	PF14226.5	DIOX_N	75,6	4,70E-21	CL0029
ARHOMBI_DN6149_c0_g1_i1_6	15	20,5	93,054	323,31	PF00076.21	RRM_1	60,7	8,40E-17	CL0221
ARUBRA_DN6670_c0_g1_i1_3	1	9,8	8,5503	6,1904	PF00295.16	Glyco_hydro_28	52,7	3,00E-14	CL0268

ARHOMBI_DN6225_c0_g2_i1_5	10	18,5	60,986	136,48	PF00153.26	Mito_carr	80,9	4,60E-23	No_clan
ARUBRA_DN4747_c0_g1_i1_6	13	35,7	43,782	323,31	PF08240.11	ADH_N	37	2,30E-09	CL0296
ARHOMBI_DN5137_c0_g1_i1_5	6	25,7	31,083	292,09	PF01625.20	PMSR	198,9	4,70E-59	No_clan
ARUBRA_DN18006_c0_g1_i1_4	11	39,8	43,657	241,93	PF00082.21	Peptidase_S8	86,1	2,40E-24	No_clan
ARHOMBI_DN2797_c0_g1_i1_2	7	32,1	35,33	323,31	PF00903.24	Glyoxalase	75,2	4,70E-21	CL0104
ARHOMBI_DN3646_c0_g1_i2_4	9	36	29,356	171,59	PF00406.21	ADK	163,3	3,80E-48	CL0023
ARHOMBI_DN6264_c0_g1_i4_2	15	38,3	50,984	323,31	PF00724.19	Oxidored_FMN	299,1	4,10E-89	CL0036
ARUBRA_DN1274_c0_g1_i1_4	11	35,7	50,469	323,31	PF00928.20	Adap_comp_sub	112,4	2,20E-32	CL0448
ARHOMBI_DN7316_c0_g1_i1_3	4	27,1	19,629	36,896	PF00141.22	peroxidase	51,2	1,20E-13	CL0617
ARUBRA_DN13722_c0_g1_i1_3	1	14,1	9,0017	6,4528					
ARUBRA_DN4746_c1_g2_i1_3	5	22,8	29,539	323,31	PF07876.11	Dabb	72,1	4,10E-20	CL0032
ARHOMBI_DN11262_c0_g1_i1_4	1	12,8	8,6779	30,902	PF00160.20	Pro_isomerase	37,6	2,40E-09	CL0475
ARHOMBI_DN4307_c0_g1_i1_5	20	30,3	89,321	147,89	PF16363.4	GDP_Man_Dehyd	234,7	1,60E-69	CL0063
ARUBRA_DN1657_c0_g1_i1_5	5	26,3	24,684	212,95	PF00085.19	Thioredoxin	107,2	3,40E-31	CL0172
ARHOMBI_DN16963_c0_g2_i1_3	5	41,7	15,453	123,16	PF01738.17	DLH	58,9	4,70E-16	CL0028
ARHOMBI_DN5659_c0_g1_i1_3	8	41,3	31,359	323,31					
ARHOMBI_DN9830_c0_g1_i1_4	2	16,8	15,697	16,517	PF00160.20	Pro_isomerase	50,8	2,10E-13	CL0475
ARHOMBI_DN7974_c0_g1_i1_2	4	26,1	22,226	37,642	PF10509.8	GalKase_gal_bdg	80	6,10E-23	CL0329
ARHOMBI_DN5417_c0_g1_i1_4	14	34,8	55,136	131,4	PF00108.22	Thiolase_N	263,1	2,30E-78	CL0046
ARHOMBI_DN753_c0_g1_i1_1	11	32,9	52,08	197,63	PF00190.21	Cupin_1	103,3	8,40E-30	CL0029
ARUBRA_DN4963_c0_g1_i2_5	6	15,8	35,303	323,31	PF02798.19	GST_N	61,4	7,10E-17	CL0172
ARHOMBI_DN24139_c0_g1_i1_4	2	28,3	10,315	74,316	PF00141.22	peroxidase	88,2	6,10E-25	CL0617
ARUBRA_DN18820_c0_g1_i1_4	6	32,4	27,309	186,23	PF00179.25	UQ_con	162,7	3,70E-48	CL0208
ARUBRA_DN325_c0_g2_i1_1	8	33,6	33,291	217,59	PF01287.19	eIF-5a	99,5	7,50E-29	CL0021
ARHOMBI_DN13323_c0_g1_i1_2	2	31,9	7,3443	13,022	PF02985.21	HEAT	23,1	5,00E-05	CL0020
ARUBRA_DN1786_c0_g1_i1_1	7	29,3	33,118	169,08	PF12481.7	DUF3700	369,2	6,20E-111	CL0052
ARUBRA_DN2535_c0_g1_i1_5	18	37,6	70,536	185,02	PF08323.10	Glyco_transf_5	244,2	1,50E-72	CL0113
ARHOMBI_DN6004_c0_g1_i1_1	8	26,2	41,877	273,13	PF00071.21	Ras	219,3	1,90E-65	CL0023
ARHOMBI_DN6257_c0_g1_i1_3	26	40,1	90,784	206,15	PF00009.26	GTP_EFTU	98,2	4,00E-28	CL0023
ARHOMBI_DN4827_c0_g1_i1_1	3	15,9	29,581	18,849					
ARHOMBI_DN5844_c0_g1_i1_3	1	6	12,914	16,144	PF01190.16	Pollen_Ole_e_I	34,2	2,40E-08	No_clan
ARHOMBI_DN5686_c0_g1_i1_6	13	33,9	65,702	281,28	PF03721.13	UDPG_MGDP_dh_N	223	2,10E-66	CL0063

ARUBRA_DN3412_c0_g1_i1_6	8	43,9	34,538	164,46	PF08534.9	Redoxin	118,7	1,50E-34	CL0172
ARHOMBI_DN9161_c0_g1_i1_5	2	22,1	11,238	11,144	PF09787.8	Golgin_A5	37,9	1,30E-09	No_clan
ARUBRA_DN21065_c0_g1_i1_6	2	42,6	10,555	302,53	PF00182.18	Glyco_hydro_19	122,1	2,80E-35	CL0037
ARUBRA_DN11174_c0_g1_i1_2	4	25,6	17,879	52,085	PF00076.21	RRM_1	27,3	2,10E-06	CL0221
ARUBRA_DN8598_c0_g1_i1_5	4	26,1	14,959	163,74	PF02878.15	PGM_PMM_I	56	3,10E-15	No_clan
ARHOMBI_DN3049_c0_g1_i1_5	8	31,9	38,862	323,31	PF02338.18	OTU	27,9	2,50E-06	CL0125
ARUBRA_DN16568_c0_g1_i1_3	10	47,7	29,027	291,71	PF01344.24	Kelch_1	39,7	2,40E-10	CL0186
ARUBRA_DN5078_c0_g1_i1_6	15	25	72,584	115,26	PF00118.23	Cpn60_TCP1	324,6	9,20E-97	No_clan
ARHOMBI_DN6227_c0_g1_i3_4	3	11,3	34,055	7,8956	PF02798.19	GST_N	60	2,00E-16	CL0172
ARHOMBI_DN4048_c0_g1_i1_3	15	25,9	72,536	152,95	PF00262.17	Calreticulin	488,1	1,30E-146	CL0004
ARHOMBI_DN294_c0_g2_i1_2	1	7,7	9,9256	11,325					
ARUBRA_DN335_c0_g1_i1_4	6	21,6	34,894	323,31	PF03079.13	ARD	211,7	5,70E-63	CL0029
ARUBRA_DN4552_c0_g2_i1_4	6	41,1	21,745	323,31	PF00025.20	Arf	229,5	1,60E-68	CL0023
ARHOMBI_DN19000_c0_g1_i1_1	2	16,4	15,295	21,334					
ARUBRA_DN4655_c0_g2_i1_6	8	29,7	33,191	151,62	PF00071.21	Ras	208,2	4,90E-62	CL0023
ARHOMBI_DN5421_c0_g1_i1_1	7	25,4	37,208	271,82	PF00736.18	EF1_GNE	111,9	1,10E-32	No_clan
ARUBRA_DN2639_c0_g2_i1_5	10	51,3	33,033	249,42	PF02209.18	VHP	58,7	4,00E-16	No_clan
ARHOMBI_DN6203_c0_g1_i1_4	6	30,4	34,055	297,09	PF00694.18	Aconitase_C	64,1	1,40E-17	CL0364
ARHOMBI_DN5924_c0_g1_i1_3	13	39,7	45,151	56,083	PF01370.20	Epimerase	85,8	2,70E-24	CL0063
ARUBRA_DN4385_c0_g1_i1_6	1	12	20,314	225,37	PF00188.25	CAP	88,4	6,00E-25	CL0659
ARHOMBI_DN16907_c0_g1_i1_2	5	21,9	26,188	241,55	PF01965.23	DJ-1_PfpI	111,8	2,50E-32	CL0014
ARUBRA_DN23412_c0_g1_i1_1	4	33,7	10,435	80,334	PF01965.23	DJ-1_PfpI	81,3	6,40E-23	CL0014
ARHOMBI_DN4949_c0_g1_i1_4	3	23,9	22,578	31,467	PF00173.27	Cyt-b5	54,6	8,40E-15	No_clan
ARHOMBI_DN9199_c0_g1_i1_3	3	34,6	13,761	146,87	PF02879.15	PGM_PMM_II	40,2	3,80E-10	No_clan
ARUBRA_DN20664_c0_g1_i1_6	4	41,9	18,551	103,86	PF00080.19	Sod_Cu	108,1	3,80E-31	No_clan
ARHOMBI_DN9737_c0_g1_i1_1	1	16,7	10,681	-2					
ARHOMBI_DN5509_c0_g1_i1_1	17	39,6	53,99	177,48	PF03214.12	RGP	592,8	1,80E-178	CL0110
ARUBRA_DN4741_c0_g1_i1_4	6	18,6	48,049	231,57	PF02900.17	LigB	190,7	2,40E-56	CL0283
ARUBRA_DN1142_c0_g1_i1_1	7	26	41,879	107,51	PF02265.15	S1-P1_nuclease	266,7	2,20E-79	CL0368
ARUBRA_DN2596_c0_g1_i1_5	7	26,8	27,526	223,64	PF02036.16	SCP2	68,2	6,50E-19	CL0311
ARUBRA_DN3451_c0_g2_i1_2	2	13,4	23,044	11,947	PF04420.13	CHD5	34,7	1,30E-08	No_clan

ARHOMBI_DN5949_c0_g1_i1_6	20	49,4	59,343	323,31	PF03952.15	Enolase_N	179,2	3,40E-53	CL0227
ARUBRA_DN25800_c0_g1_i1_2	6	53,3	13,716	44,569					
ARUBRA_DN2944_c0_g2_i1_1	11	21,7	60,328	323,31	PF00270.28	DEAD	135,5	1,50E-39	CL0023
ARUBRA_DN3626_c0_g1_i1_4	7	32,1	34,056	184,04	PF09280.10	XPC-binding	78,9	1,60E-22	No_clan
ARUBRA_DN1658_c0_g1_i1_3	12	26,8	53,178	187,82	PF16363.4	GDP_Man_Dehyd	179,4	1,10E-52	CL0063
ARUBRA_DN5995_c0_g2_i1_4	7	34,8	20,908	132,05	PF00160.20	Pro_isomerase	164,8	1,70E-48	CL0475
ARUBRA_DN17764_c0_g1_i1_4	6	31,2	21,707	51,148	PF01182.19	Glucosamine_iso	83,8	1,50E-23	CL0246
ARUBRA_DN1399_c0_g1_i1_3	10	33,6	39,107	323,31	PF01263.19	Aldose_epim	236,1	4,90E-70	CL0103
ARHOMBI_DN5222_c0_g2_i1_6	8	19,4	43,422	273,99	PF00638.17	Ran_BP1	139,9	4,30E-41	CL0266
ARUBRA_DN4539_c0_g1_i1_1	4	34,6	23,944	242,69	PF01849.17	NAC	81,1	4,00E-23	No_clan
ARHOMBI_DN6283_c0_g15_i1_6	9	34,1	35,619	74,369	PF00009.26	GTP_EFTU	181,6	1,10E-53	CL0023
ARUBRA_DN14209_c0_g1_i1_5	1	16,7	10,996	-2	PF00083.23	Sugar_tr	27,7	1,10E-06	CL0015
ARHOMBI_DN3140_c0_g1_i1_4	4	35,3	16,423	35,711	PF03671.13	Ufm1	140,4	1,40E-41	CL0072
ARUBRA_DN3913_c0_g2_i2_6	10	24,1	60,615	75,666	PF00464.18	SHMT	625,6	2,40E-188	CL0061
ARHOMBI_DN5648_c0_g1_i1_6	13	29	58,057	210,26	PF06999.11	Suc_Fer-like	147,2	4,90E-43	No_clan
ARHOMBI_DN9622_c0_g1_i1_2	8	42,6	27,392	141,37	PF00171.21	Aldedh	324	1,10E-96	CL0099
ARUBRA_DN4716_c0_g2_i1_1	9	24,7	48,85	74,724	PF08240.11	ADH_N	96,5	7,60E-28	CL0296
ARHOMBI_DN5959_c0_g1_i1_1	15	35,5	61,478	323,31	PF00180.19	Iso_dh	304,4	9,70E-91	CL0270
ARUBRA_DN7093_c0_g1_i1_1	7	48,5	18,599	49,574	PF04969.15	CS	40,3	4,70E-10	CL0190
ARHOMBI_DN5317_c0_g1_i1_1	11	32,8	57,594	323,31	PF00056.22	Ldh_1_N	162,1	7,60E-48	CL0063
ARHOMBI_DN17873_c0_g1_i1_6	3	22,3	19,749	323,31					
ARHOMBI_DN15725_c0_g1_i1_6	11	35,8	47,2	323,31	PF16499.4	Melibiase_2	205,9	6,50E-61	CL0058
ARUBRA_DN3134_c0_g2_i1_6	5	33,9	26,564	160,83	PF02431.14	Chalcone	99,1	2,00E-28	CL0560
ARUBRA_DN8237_c0_g1_i1_4	6	22	35,516	163,24	PF05008.14	V-SNARE	88,5	2,50E-25	CL0147
ARHOMBI_DN5100_c0_g1_i1_3	13	21,7	88,616	323,31	PF00076.21	RRM_1	68,5	3,00E-19	CL0221
ARUBRA_DN4014_c0_g3_i1_3	7	56,2	16,825	127,38	PF00248.20	Aldo_ket_red	77,9	6,60E-22	No_clan
ARUBRA_DN2976_c1_g1_i1_5	12	33,6	45,103	323,31	PF00244.19	14.03.2003	345,6	9,40E-104	No_clan
ARHOMBI_DN5768_c0_g1_i1_6	7	39,6	22,006	323,31					
ARUBRA_DN6355_c0_g1_i1_3	9	33,2	32,271	91,577	PF00085.19	Thioredoxin	74,2	6,10E-21	CL0172
ARHOMBI_DN2325_c0_g2_i1_5	5	15,7	45,173	43,946	PF03152.13	UFD1	269,2	9,90E-81	CL0402
ARHOMBI_DN9876_c0_g1_i1_3	6	33,2	24,938	53,067	PF00076.21	RRM_1	57,1	1,10E-15	CL0221

ARUBRA_DN1667_c0_g1_i1_4	5	24	20,714	93,215	PF00085.19	Thioredoxin	113	5,10E-33	CL0172
ARHOMBI_DN2829_c0_g1_i1_5	4	20,4	22,813	206,38	PF06108.11	DUF952	82,5	1,50E-23	CL0084
ARUBRA_DN2825_c0_g1_i1_4	1	6,1	18,087	7,4482					
ARUBRA_DN1403_c0_g1_i1_4	16	33,7	69,954	111,74	PF02874.22	ATP-synt_ab_N	51,1	1,30E-13	CL0275
ARHOMBI_DN5577_c0_g1_i1_6	10	23,1	64,748	71,631	PF09334.10	tRNA-synt_1g	212,8	6,20E-63	CL0039
ARHOMBI_DN20240_c0_g1_i1_6	4	44,3	12,491	37,57	PF13415.5	Kelch_3	42,7	4,20E-11	CL0186
ARUBRA_DN5882_c0_g1_i1_4	5	15,7	50,666	323,31	PF00112.22	Peptidase_C1	259,8	2,50E-77	CL0125
ARUBRA_DN4352_c0_g3_i1_5	3	22,3	20,41	323,31	PF06825.11	HSBP1	78	3,40E-22	No_clan
ARHOMBI_DN5282_c0_g1_i1_5	11	26,5	54,06	100,38	PF00012.19	HSP70	469,6	1,10E-140	CL0108
ARHOMBI_DN5162_c0_g1_i1_6	3	16,9	34,585	215,33	PF00834.18	Ribul_P_3_epim	234,9	4,70E-70	CL0036
ARHOMBI_DN1661_c0_g1_i1_5	13	35,9	48,211	323,31	PF00244.19	14.03.2003	350,5	3,00E-105	No_clan
ARUBRA_DN4331_c0_g1_i1_1	7	32	29,531	196,28	PF13499.5	EF-hand_7	47,7	1,50E-12	CL0220
ARHOMBI_DN5855_c0_g1_i1_3	15	35,9	61,828	114,51	PF00343.19	Phosphorylase	561,3	2,90E-168	CL0113
ARUBRA_DN19380_c0_g2_i1_4	5	23,7	30,928	104,89	PF03358.14	FMN_red	46,8	2,30E-12	CL0042
ARUBRA_DN337_c0_g2_i1_5	8	23,8	41,853	323,31	PF01765.18	RRF	209,2	3,10E-62	No_clan
ARUBRA_DN4321_c0_g2_i1_1	22	35,5	90,017	142,93	PF02933.16	CDC48_2	44,1	1,20E-11	CL0402
ARUBRA_DN1238_c0_g1_i1_5	16	40,9	54,037	112,45	PF16886.4	ATP-synt_ab_Xtn	48,2	8,10E-13	No_clan
ARHOMBI_DN4982_c0_g1_i1_1	9	18,7	62,635	44,6	PF00996.17	GDI	772,1	1,10E-232	CL0063
ARHOMBI_DN4944_c0_g1_i1_3	7	22,2	42,828	54,603	PF00160.20	Pro_isomerase	163,1	5,40E-48	CL0475
ARUBRA_DN1865_c0_g1_i1_1	11	25,7	58,56	323,31	PF00155.20	Aminotran_1_2	323,4	1,80E-96	CL0061
ARUBRA_DN7363_c0_g1_i1_1	8	27,3	36,422	56,788	PF00459.24	Inositol_P	248	1,10E-73	CL0171
ARHOMBI_DN6048_c0_g1_i2_2	9	31,3	40,196	294,77	PF00484.18	Pro_CA	139,5	9,80E-41	No_clan
ARHOMBI_DN5714_c0_g2_i1_1	10	26	51,265	145,4	PF00266.18	Aminotran_5	176,9	5,50E-52	CL0061
ARUBRA_DN11957_c0_g1_i1_4	3	35,5	11,464	49,646	PF04043.14	PMEI	45,6	8,10E-12	No_clan
ARUBRA_DN26276_c0_g1_i1_1	1	13,3	9,549	6,5559	PF13839.5	PC-Esterase	59,7	3,40E-16	CL0264
ARUBRA_DN5081_c0_g1_i1_6	7	41,4	21,926	70,115	PF00996.17	GDI	324,7	6,30E-97	CL0063
ARUBRA_DN11233_c0_g1_i1_2	2	20,8	12,218	11,209					
ARHOMBI_DN5854_c0_g1_i1_3	6	11,5	67,358	323,31	PF00150.17	Cellulase	81,7	5,40E-23	CL0058
ARHOMBI_DN6063_c0_g1_i1_4	3	11	29,128	291,18	PF00085.19	Thioredoxin	108,1	1,70E-31	CL0172

ARHOMBI_DN2876_c0_g2_i1_3	10	39,8	39,138	147,86	PF00141.22	peroxidase	130,3	8,10E-38	CL0617
ARUBRA_DN22470_c0_g1_i1_3	1	18,3	8,4963	6,51					
ARHOMBI_DN3221_c0_g1_i1_3	11	39,5	40,599	323,31	PF00293.27	NUDIX	79,7	1,80E-22	CL0261
ARUBRA_DN4811_c0_g2_i1_3	2	7,9	36,926	11,685					
ARUBRA_DN1006_c1_g1_i1_5	4	16,7	22,186	323,31	PF13499.5	EF-hand_7	34,5	2,00E-08	CL0220
ARHOMBI_DN15853_c0_g1_i1_3	10	39,7	36,649	217,38	PF16113.4	ECH_2	213,5	5,00E-63	CL0127
ARHOMBI_DN15373_c0_g1_i1_5	14	27	65,562	97,266	PF00883.20	Peptidase_M17	384,1	4,40E-115	CL0035
ARUBRA_DN10605_c0_g1_i1_2	6	39,5	22,273	115,4	PF11543.7	UN_NPL4	26,6	5,80E-06	CL0072
ARUBRA_DN10035_c0_g1_i1_2	1	10,1	18,225	6,4405					
ARUBRA_DN9263_c0_g1_i1_6	1	12	8,9073	40,985	PF02298.16	Cu_bind_like	47,2	1,60E-12	CL0026
ARUBRA_DN10200_c0_g1_i1_2	7	18,1	45,475	323,31	PF00561.19	Abhydrolase_1	74,6	8,80E-21	CL0028
ARUBRA_DN7621_c0_g1_i1_2	5	23,4	31,922	250,02	PF13181.5	TPR_8	16	0,0098	CL0020
ARUBRA_DN1568_c0_g2_i1_4	2	13,8	23,447	248,27	PF00111.26	Fer2	65,6	2,70E-18	CL0486
ARUBRA_DN3840_c0_g1_i1_2	11	17	72,455	180,39	PF00254.27	FKBP_C	118,2	1,40E-34	CL0487
ARUBRA_DN4409_c0_g1_i1_6	12	42,3	46,837	75,813	PF00091.24	Tubulin	234,4	1,20E-69	CL0566
ARUBRA_DN4436_c0_g1_i1_5	1	11,5	14,076	90,134	PF00141.22	peroxidase	116,4	1,40E-33	CL0617
ARHOMBI_DN5595_c0_g1_i1_6	8	37,9	31,323	142,27	PF00248.20	Aldo_ket_red	190,2	3,90E-56	No_clan
ARUBRA_DN4227_c1_g2_i1_2	4	19,4	21,124	323,31	PF07876.11	Dabb	102,2	1,70E-29	CL0032
ARHOMBI_DN4937_c0_g3_i1_5	5	23,6	22,529	43,487	PF05922.15	Inhibitor_I9	45,1	1,10E-11	CL0570
ARUBRA_DN143_c0_g2_i1_4	14	41,8	52,305	95,101	PF00343.19	Phosphorylase	434,2	7,80E-130	CL0113
ARHOMBI_DN21168_c0_g1_i1_5	4	22,2	21,038	184,01	PF02209.18	VHP	59,9	1,70E-16	No_clan
ARHOMBI_DN4920_c0_g1_i1_6	13	25,8	77,867	87,383	PF02219.16	MTHFR	407,1	3,60E-122	CL0086
ARUBRA_DN26231_c0_g1_i1_1	1	19,4	7,3913	6,4454	PF00198.22	2-oxoacid_dh	75,4	4,10E-21	CL0149
ARUBRA_DN304_c0_g1_i1_5	1	2,9	41,836	6,8371					
ARUBRA_DN3080_c0_g1_i1_1	11	13	114,27	77,666	PF00456.20	Transketolase_N	499,9	2,60E-150	CL0254
ARUBRA_DN10173_c0_g1_i1_6	10	27,2	50,74	59,815	PF00056.22	Ldh_1_N	166,2	4,10E-49	CL0063
ARHOMBI_DN1063_c0_g2_i1_1	7	15,8	75,898	118,53	PF00614.21	PLDc	41,1	1,10E-10	CL0479
ARHOMBI_DN4718_c0_g1_i1_2	9	25,5	53,981	275,91	PF09229.10	Aha1_N	101,3	4,60E-29	CL0648
ARUBRA_DN4883_c0_g1_i1_3	7	24,9	38,877	47,182	PF01015.17	Ribosomal_S3Ae	324	3,10E-97	No_clan

ARUBRA_DN4330_c0_g2_i1_4	2	15,7	17,128	12,755	PF14705.5	Costars	66,5	1,60E-18	No_clan
ARHOMBI_DN5519_c0_g1_i2_6	7	61,7	16,704	33,018	PF00240.22	ubiquitin	93,6	4,00E-27	CL0072
ARHOMBI_DN5140_c0_g1_i2_1	4	28,9	19,623	58,584	PF00334.18	NDK	71,6	5,70E-20	No_clan
ARHOMBI_DN6061_c0_g1_i1_5	4	18	28,422	176,83	PF00334.18	NDK	182,3	3,70E-54	No_clan
ARHOMBI_DN1760_c0_g1_i1_4	8	29,9	34,798	85,484					
ARUBRA_DN16482_c0_g1_i1_1	3	33,3	15,377	218,32	PF02878.15	PGM_PMM_I	53,4	2,00E-14	No_clan
ARUBRA_DN4585_c0_g2_i2_2	6	23,4	51,862	218,08	PF00076.21	RRM_1	46,7	1,90E-12	CL0221
ARUBRA_DN4349_c0_g1_i1_5	9	20,4	69,585	103,39	PF00365.19	PFK	124,9	3,40E-36	CL0240
ARHOMBI_DN5054_c0_g1_i1_1	6	19,5	51,288	49,988	PF08752.9	COP-gamma_platf	182,7	3,90E-54	CL0159
ARUBRA_DN18216_c0_g1_i1_2	5	47,2	17,268	92,439	PF00459.24	Inositol_P	63,6	1,90E-17	CL0171
ARHOMBI_DN3394_c0_g1_i1_1	9	31,3	47,982	289,03	PF00753.26	Lactamase_B	40,3	3,10E-10	CL0381
ARHOMBI_DN20977_c0_g1_i1_5	2	37,5	10,674	13,377	PF02115.16	Rho_GDI	149,4	9,30E-44	No_clan
ARHOMBI_DN6641_c0_g2_i1_5	6	19,3	41,047	323,31	PF00248.20	Aldo_ket_red	161,4	2,40E-47	No_clan
ARHOMBI_DN5627_c0_g2_i1_2	4	45,5	11,889	323,31	PF06825.11	HSBP1	83	9,50E-24	No_clan
ARHOMBI_DN2280_c0_g1_i1_6	9	51,2	30,328	81,751	PF00290.19	Trp_syntA	316,4	8,10E-95	CL0036
ARHOMBI_DN5380_c0_g1_i1_2	7	25,4	44,352	72,412	PF02737.17	3HCDH_N	118,6	2,60E-34	CL0063
ARUBRA_DN6789_c0_g1_i1_6	1	8,2	21,051	6,6407					
ARUBRA_DN17519_c0_g1_i1_3	5	43,3	13,826	45,489					
ARHOMBI_DN940_c0_g1_i1_3	6	69,8	10,72	58,642	PF13848.5	Thioredoxin_6	33,5	3,50E-08	CL0172
ARHOMBI_DN2154_c0_g1_i1_4	5	33,8	24,001	71,435	PF00173.27	Cyt-b5	92,2	1,50E-26	No_clan
ARHOMBI_DN16490_c0_g1_i1_2	7	23,3	35,056	46,644	PF01842.24	ACT	34,5	1,20E-08	CL0070
ARHOMBI_DN6177_c0_g2_i1_3	2	9,7	19,045	6,4235					
ARHOMBI_DN24802_c0_g1_i1_2	4	50	9,1395	323,31	PF16113.4	ECH_2	72,4	4,30E-20	CL0127
ARUBRA_DN18898_c0_g1_i1_2	8	29	22,525	84,691	PF00240.22	ubiquitin	100,8	2,40E-29	CL0072
ARUBRA_DN10159_c0_g1_i1_5	9	22,3	49,863	60,401	PF00675.19	Peptidase_M16	186,8	2,00E-55	CL0094
ARUBRA_DN147_c0_g1_i1_6	5	48,2	15,384	69,435	PF07944.11	Glyco_hydro_127	106,2	1,40E-30	CL0059
ARHOMBI_DN5600_c0_g1_i1_6	14	25,5	74,607	323,31	PF07719.16	TPR_2	24,8	1,30E-05	CL0020
ARUBRA_DN18800_c0_g2_i1_4	6	23,6	37,705	177,89	PF07859.12	Abhydrolase_3	166,1	8,60E-49	CL0028
ARHOMBI_DN4017_c0_g1_i1_1	8	38,4	28,962	323,31					
ARUBRA_DN4582_c0_g1_i1_5	5	21,1	32,985	33,27	PF00561.19	Abhydrolase_1	70	2,30E-19	CL0028
ARUBRA_DN1643_c0_g2_i1_1	4	27,6	18,01	42,385	PF00481.20	PP2C	21,5	0,00014	CL0238
ARUBRA_DN5911_c0_g1_i1_4	4	19,6	28,269	128,07	PF00293.27	NUDIX	94,5	4,60E-27	CL0261
ARUBRA_DN3180_c0_g1_i1_4	6	22,6	40,695	125,44	PF01625.20	PMSR	204,5	8,90E-61	No_clan

ARHOMBI_DN12129_c0_g1_i1_2	6	27,5	26,608	68,428	PF00462.23	Glutaredoxin	57,3	1,30E-15	CL0172
ARHOMBI_DN4888_c0_g1_i1_6	5	26,3	24,539	110,29	PF16363.4	GDP_Man_Dehyd	30	3,10E-07	CL0063
ARUBRA_DN6309_c0_g1_i1_5	8	27,2	42,983	93,181	PF00318.19	Ribosomal_S2	49,2	3,40E-13	CL0067
ARUBRA_DN3885_c0_g1_i1_5	1	4	19,214	20,679					
ARHOMBI_DN667_c0_g2_i1_1	2	16,7	10,023	12,631	PF13561.5	adh_short_C2	110,5	8,30E-32	CL0063
ARUBRA_DN18848_c0_g1_i1_3	2	6,8	25,651	6,3297					
ARUBRA_DN4554_c0_g1_i1_4	5	17	38,143	33,901	PF13417.5	GST_N_3	45,3	7,80E-12	CL0172
ARUBRA_DN9538_c0_g1_i1_1	6	56,2	16,13	137,59	PF12146.7	Hydrolase_4	37,5	1,40E-09	CL0028
ARHOMBI_DN4282_c0_g1_i1_5	7	30,7	37,231	70,683	PF03214.12	RGP	483,1	4,30E-145	CL0110
ARHOMBI_DN22144_c0_g1_i1_6	3	26,6	15,26	323,31	PF00079.19	Serpin	121,1	6,10E-35	No_clan
ARUBRA_DN3174_c0_g1_i1_1	4	11,4	39,664	26,401	PF00213.17	OSCP	145	2,20E-42	CL0255
ARHOMBI_DN19334_c0_g1_i1_6	1	14,8	8,3641	24,327					
ARHOMBI_DN8571_c0_g1_i1_5	7	41,3	26,296	153,33	PF05694.10	SBP56	314	1,50E-93	CL0186
ARUBRA_DN4684_c0_g2_i1_5	12	35,3	53,532	54,291	PF00044.23	Gp_dh_N	111,2	2,30E-32	CL0063
ARHOMBI_DN1355_c0_g2_i1_2	6	21,3	35,266	74,946	PF00071.21	Ras	189,6	2,60E-56	CL0023
ARUBRA_DN15624_c0_g1_i1_4	2	22	12,846	173,96	PF06404.11	PSK	54,1	2,30E-14	No_clan
ARUBRA_DN2409_c0_g2_i1_4	6	22,3	39,086	51,57	PF00210.23	Ferritin	100,8	5,40E-29	CL0044
ARHOMBI_DN5337_c0_g1_i1_4	5	22,2	26,7	59,563	PF00281.18	Ribosomal_L5	70	1,50E-19	CL0652
ARHOMBI_DN6227_c0_g1_i4_5	6	18,8	38,849	47,761	PF02798.19	GST_N	59,7	2,50E-16	CL0172
ARHOMBI_DN4176_c0_g1_i1_6	5	12,2	51,954	132,94	PF13181.5	TPR_8	11,8	0,2	CL0020
ARUBRA_DN22728_c0_g1_i1_2	11	31,2	45,585	123,36	PF00294.23	PfkB	254,5	1,30E-75	CL0118
ARUBRA_DN18837_c0_g1_i1_3	3	29,4	18,087	197,16	PF00076.21	RRM_1	56,8	1,40E-15	CL0221
ARHOMBI_DN6122_c0_g1_i1_5	7	23,5	51,775	46,042	PF00573.21	Ribosomal_L4	133,6	5,90E-39	No_clan
ARHOMBI_DN6266_c0_g2_i3_6	6	17,8	41,661	323,31	PF00248.20	Aldo_ket_red	175,1	1,60E-51	No_clan
ARUBRA_DN4148_c0_g1_i1_5	3	11,7	33,757	46,35	PF13774.5	Longin	79,1	1,80E-22	No_clan
ARHOMBI_DN15512_c0_g1_i1_6	3	15,3	28,571	28,859	PF00332.17	Glyco_hydro_17	93	2,10E-26	CL0058
ARHOMBI_DN6104_c0_g1_i1_6	1	4,5	30,182	6,6843	PF00190.21	Cupin_1	137,9	1,90E-40	CL0029
ARUBRA_DN4076_c0_g1_i1_5	2	6,4	53,214	14,208	PF04526.12	DUF568	102,2	2,00E-29	No_clan
ARHOMBI_DN6065_c0_g3_i2_6	5	34,8	19,384	98,737	PF08241.11	Methyltransf_11	34,5	2,20E-08	CL0063
ARUBRA_DN4576_c0_g1_i1_2	13	42,9	31,225	137,93					
ARHOMBI_DN3224_c0_g1_i1_2	5	31,2	31,322	36,423	PF11566.7	PI31_Prot_N	43	3,70E-11	No_clan
ARHOMBI_DN6597_c0_g1_i1_6	7	27,5	32,998	122,53	PF00179.25	UQ_con	145,7	6,20E-43	CL0208

ARUBRA_DN16167_c0_g1_i1_3	3	15,5	20,86	166,12	PF00481.20	PP2C	183,3	5,80E-54	CL0238
ARHOMBI_DN4850_c0_g1_i1_5	5	22,2	27,758	66,533	PF00411.18	Ribosomal_S11	157,9	9,20E-47	CL0267
ARHOMBI_DN641_c0_g1_i1_6	9	51,9	17,589	56,207	PF00012.19	HSP70	251,8	9,80E-75	CL0108
ARUBRA_DN9455_c0_g1_i1_2	7	32	34,13	118,72	PF01048.19	PNP_UDP_1	79,7	1,70E-22	CL0408
ARUBRA_DN4936_c0_g1_i1_3	7	32,3	30,07	323,31	PF03931.14	Skp1_POZ	106,4	5,60E-31	CL0033
ARUBRA_DN11512_c0_g1_i1_6	4	36,4	16,811	75,816	PF00702.25	Hydrolase	54,4	1,90E-14	CL0137
ARHOMBI_DN13390_c0_g1_i1_2	2	28,2	12,006	13,639	PF00076.21	RRM_1	65,8	2,10E-18	CL0221
ARUBRA_DN13261_c0_g1_i1_6	3	38,8	11,133	142,82	PF00085.19	Thioredoxin	64,1	8,50E-18	CL0172
ARUBRA_DN7781_c0_g1_i1_6	2	20,3	12,996	12,003	PF02817.16	E3_binding	60,3	1,50E-16	No_clan
ARHOMBI_DN15181_c0_g1_i1_3	4	29,2	18,267	22,107					
ARUBRA_DN4108_c0_g1_i1_4	1	3,6	43,563	6,7805					
ARHOMBI_DN2905_c0_g1_i1_2	7	33,8	32,66	72,144	PF13417.5	GST_N_3	65,7	3,40E-18	CL0172
ARUBRA_DN4026_c0_g1_i1_5	9	16,6	81,321	100,11	PF01433.19	Peptidase_M1	311,7	2,50E-93	CL0126
ARHOMBI_DN6235_c0_g1_i4_4	8	19,2	60,587	51,123	PF00199.18	Catalase	577,7	1,00E-173	No_clan
ARUBRA_DN25569_c0_g1_i1_3	4	58,1	11,286	200,77	PF01557.17	FAA_hydrolase	111,8	3,40E-32	CL0377
ARUBRA_DN4711_c0_g1_i2_5	7	29,9	32,427	50,986	PF00022.18	Actin	265	8,10E-79	CL0108
ARUBRA_DN2993_c0_g1_i1_2	6	22,7	31,111	85,969	PF04450.11	BSP	243,9	1,20E-72	CL0126
ARUBRA_DN3089_c0_g2_i1_6	6	19,9	42,009	43,486	PF01459.21	Porin_3	253,7	2,00E-75	CL0193
ARUBRA_DN8636_c0_g1_i1_1	2	22,7	13,141	18,188					
ARHOMBI_DN4932_c0_g1_i1_1	7	22,6	47,135	51,272	PF00231.18	ATP-synt	246,4	4,10E-73	No_clan
ARUBRA_DN5237_c0_g1_i1_6	6	17,1	36,187	37,186	PF07650.16	KH_2	47,9	8,10E-13	CL0007
ARUBRA_DN4540_c0_g1_i2_6	7	46	23,584	50,864	PF00118.23	Cpn60_TCP1	176,1	9,90E-52	No_clan
ARUBRA_DN830_c0_g1_i1_6	6	43,5	16,521	83,269	PF00288.25	GHMP_kinases_N	56,2	2,80E-15	CL0329
ARHOMBI_DN5602_c0_g2_i1_1	11	16,1	112,09	75,624	PF00690.25	Cation_ATPase_N	41,3	8,50E-11	No_clan
ARHOMBI_DN6202_c0_g1_i2_4	5	9,8	66,705	221,08	PF00450.21	Peptidase_S10	444,9	3,60E-133	CL0028
ARUBRA_DN2984_c0_g1_i2_6	1	6,4	23,59	6,1984					
ARUBRA_DN6258_c0_g1_i1_5	11	29,6	54,714	164,62	PF00565.16	SNase	54,4	1,40E-14	CL0049
ARUBRA_DN1424_c0_g2_i1_3	4	9	69,888	31,748	PF03030.15	H_PPase	717,2	2,00E-215	No_clan
ARHOMBI_DN6163_c0_g1_i2_6	6	19,3	37,649	37,642	PF08079.11	Ribosomal_L30_N	87,5	4,70E-25	No_clan
ARHOMBI_DN2855_c0_g1_i1_2	7	23,9	36,764	46,575	PF01201.21	Ribosomal_S8e	196,9	1,30E-58	No_clan

ARHOMBI_DN4907_c0_g3_i3_4	8	33,9	32,396	11,504	PF01287.19	eIF-5a	99,6	7,40E-29	CL0021
ARUBRA_DN20327_c0_g1_i1_5	8	18,6	52,962	206,54	PF02879.15	PGM_PMM_II	44,5	1,70E-11	No_clan
ARHOMBI_DN3004_c0_g1_i1_6	8	37,4	38,878	58,043	PF00171.21	Aldedh	286,2	3,40E-85	CL0099
ARUBRA_DN20570_c0_g1_i1_4	6	23,5	37,902	127,11	PF07933.13	DUF1681	177,4	1,30E-52	CL0266
ARHOMBI_DN4754_c0_g1_i1_5	10	25,9	68,541	70,265	PF00483.22	NTP_transferase	225,9	5,20E-67	CL0110
ARUBRA_DN2276_c0_g1_i1_5	3	20	16,67	41,065	PF00708.17	Acylphosphatase	76,1	2,00E-21	CL0622
ARHOMBI_DN6055_c0_g1_i1_6	3	20,7	20,974	23,251	PF03501.14	S10_plectin	146,2	2,20E-43	No_clan
ARHOMBI_DN1472_c0_g1_i1_6	10	38	51,248	323,31	PF01412.17	ArfGap	119,5	6,90E-35	No_clan
ARUBRA_DN2452_c0_g2_i1_2	4	13,4	36,861	28,006	PF01092.18	Ribosomal_S6e	191,5	4,00E-57	No_clan
ARUBRA_DN4724_c0_g1_i1_5	8	42	26,165	156,82	PF01287.19	eIF-5a	99,7	6,90E-29	CL0021
ARHOMBI_DN7816_c0_g1_i1_3	4	13,4	29,403	323,31	PF01370.20	Epimerase	47,2	1,70E-12	CL0063
ARHOMBI_DN4989_c0_g1_i1_1	8	25,7	47,294	49,806	PF00153.26	Mito_carr	56	2,50E-15	No_clan
ARUBRA_DN8722_c0_g1_i1_2	2	18	11,658	38,286					
ARUBRA_DN19739_c0_g2_i1_3	6	23,8	39,11	59,136	PF07859.12	Abhydrolase_3	178,4	1,50E-52	CL0028
ARUBRA_DN5052_c0_g1_i2_2	6	37,8	19,07	48,268	PF01370.20	Epimerase	62,9	2,70E-17	CL0063
ARHOMBI_DN19084_c0_g1_i1_5	5	27,2	29,094	292,85	PF00240.22	ubiquitin	68,4	3,00E-19	CL0072
ARHOMBI_DN4789_c0_g1_i1_3	7	15,9	63,126	53,628	PF07992.13	Pyr_redox_2	246,4	3,20E-73	CL0063
ARUBRA_DN14251_c0_g1_i1_2	3	45,6	12,461	57,162	PF01182.19	Glucosamine_iso	126,8	1,00E-36	CL0246
ARUBRA_DN1618_c0_g1_i1_5	1	5,6	24,039	279,64					
ARHOMBI_DN277_c0_g1_i1_2	4	32	16,384	29,331	PF05907.12	DUF866	84,5	6,60E-24	No_clan
ARUBRA_DN4780_c0_g3_i1_6	8	27,2	57,527	66,603	PF00091.24	Tubulin	225,1	8,40E-67	CL0566
ARHOMBI_DN4043_c0_g1_i1_2	6	40,3	13,665	115,59	PF00012.19	HSP70	140,6	4,60E-41	CL0108
ARUBRA_DN4785_c0_g1_i3_6	10	32,9	53,604	106,36	PF12796.6	Ank_2	58,5	6,90E-16	CL0465
ARHOMBI_DN5765_c0_g1_i1_5	5	27,2	28,717	50,787	PF06172.10	Cupin_5	142,1	9,90E-42	CL0029
ARHOMBI_DN4921_c0_g1_i1_3	8	18,7	58,557	171,27	PF00012.19	HSP70	575,2	1,10E-172	CL0108
ARUBRA_DN4799_c0_g1_i1_4	2	12,8	20,682	36,403	PF16845.4	SQAPI	129	5,90E-38	CL0121
ARUBRA_DN2524_c0_g1_i1_6	4	69,8	11,971	45,337	PF00330.19	Aconitase	115,3	3,30E-33	No_clan
ARUBRA_DN830_c1_g1_i1_2	13	63,1	24,585	323,31	PF08544.12	GHMP_kinases_C	48,2	9,40E-13	No_clan
ARUBRA_DN5581_c0_g1_i1_2	3	15,8	29,809	323,31	PF03647.12	Tmemb_14	62,1	6,10E-17	No_clan
ARUBRA_DN18248_c0_g1_i1_4	3	34	10,591	323,31	PF00635.25	Motile_Sperm	104,4	2,50E-30	CL0556
ARHOMBI_DN15811_c0_g1_i1_3	3	33	11,797	20,659	PF02826.18	2-Hacid_dh_C	138,8	1,10E-40	CL0063
ARHOMBI_DN5696_c0_g1_i1_3	5	18,8	35,125	30,83	PF00181.22	Ribosomal_L2	59,8	1,70E-16	CL0021

ARHOMBI_DN6039_c0_g1_i3_2	4	24,2	25,564	34,004	PF03946.13	Ribosomal_L11_N	79	1,50E-22	No_clan
ARHOMBI_DN787_c0_g2_i1_5	7	26	41,256	85,607	PF00175.20	NAD_binding_1	96,8	1,00E-27	CL0091
ARUBRA_DN19178_c0_g1_i1_4	4	18,4	28,113	26,607	PF01090.18	Ribosomal_S19e	191	6,50E-57	CL0123
ARUBRA_DN202_c0_g1_i1_3	5	13	56,257	57,484	PF00274.18	Glycolytic	521,7	6,00E-157	CL0035
ARHOMBI_DN5950_c0_g1_i1_2	1	2,3	68,807	6,6261					
ARHOMBI_DN2248_c0_g1_i1_5	6	35,7	24,143	40,416	PF00224.20	PK	103,2	1,20E-29	CL0151
ARUBRA_DN11411_c0_g1_i1_4	3	20,5	20,493	22,012	PF17135.3	Ribosomal_L18	309,9	4,10E-93	CL0588
ARUBRA_DN17927_c0_g1_i1_6	6	18,7	43,562	40,532	PF15704.4	Mt_ATP_synt	260,8	6,80E-78	No_clan
ARHOMBI_DN5374_c1_g1_i1_6	7	28,4	44,426	48,244	PF00004.28	AAA	145,2	1,30E-42	CL0023
ARUBRA_DN763_c0_g1_i1_4	4	15,3	28,776	150,55	PF01778.16	Ribosomal_L28e	114,9	2,90E-33	No_clan
ARUBRA_DN2819_c0_g1_i1_3	3	39,2	10,988	20,068					
ARUBRA_DN4688_c0_g1_i1_1	7	17,1	55,479	55,372	PF00330.19	Aconitase	95,1	4,20E-27	No_clan
ARHOMBI_DN4778_c0_g1_i1_3	4	11,3	58,585	57,882	PF00400.31	WD40	21,1	0,00037	CL0186
ARHOMBI_DN777_c0_g1_i1_1	5	33,3	21,812	207,57					
ARHOMBI_DN18025_c0_g1_i1_2	6	37,7	23,252	161,14	PF01661.20	Macro	126,9	3,70E-37	CL0223
ARHOMBI_DN5069_c0_g2_i1_3	10	24,6	57,4	65,862	PF08442.9	ATP-grasp_2	199	5,80E-59	CL0179
ARUBRA_DN4080_c0_g1_i1_6	2	28,1	14,437	88,962	PF00235.18	Profilin	73,5	1,60E-20	CL0431
ARUBRA_DN19946_c0_g1_i1_3	3	14,5	24,521	25,021	PF00252.17	Ribosomal_L16	116,8	5,80E-34	No_clan
ARUBRA_DN4991_c0_g1_i1_6	7	18	54,513	78,592	PF08241.11	Methyltransf_11	27,3	3,90E-06	CL0063
ARHOMBI_DN17727_c0_g1_i1_3	7	19,3	44,353	44,044	PF04053.13	Coatomer_WDAD	451,2	4,20E-135	CL0186
ARHOMBI_DN4645_c0_g2_i1_4	9	21,2	65,011	77,85	PF01433.19	Peptidase_M1	49,1	4,40E-13	CL0126
ARHOMBI_DN2411_c0_g1_i1_5	10	33,8	49,209	68,833	PF00118.23	Cpn60_TCP1	347,8	8,30E-104	No_clan
ARUBRA_DN4641_c0_g2_i1_2	23	39,3	82,022	55,052	PF00012.19	HSP70	870,8	3,60E-262	CL0108
ARHOMBI_DN1922_c0_g1_i1_3	7	33,1	30,616	323,31	PF00300.21	His_Phos_1	77,3	1,10E-21	CL0071
ARUBRA_DN17998_c0_g1_i1_1	5	30,7	23,976	31,006	PF02737.17	3HCDH_N	53,9	1,90E-14	CL0063
ARHOMBI_DN5775_c0_g1_i1_2	8	24	53,295	323,31	PF00112.22	Peptidase_C1	272	4,70E-81	CL0125
ARUBRA_DN5604_c0_g1_i1_1	6	18,6	29,58	39,027	PF05873.11	Mt_ATP-synt_D	66,3	2,50E-18	No_clan
ARUBRA_DN4856_c0_g1_i2_3	3	15,7	25,088	47,15					
ARHOMBI_DN478_c0_g2_i1_6	5	21,6	35,291	246,56	PF00756.19	Esterase	202	1,10E-59	CL0028

ARHOMBI_DN5072_c0_g1_i1_5	4	14,1	36,656	32,216	PF00081.21	Sod_Fe_N	116,8	4,10E-34	No_clan
ARUBRA_DN162_c0_g1_i1_1	8	27,3	38,773	322,46	PF12697.6	Abhydrolase_6	31	3,50E-07	CL0028
ARHOMBI_DN5339_c0_g1_i1_5	7	19	60,99	65,774	PF03405.13	FA_desaturase_2	532,9	2,00E-160	CL0044
ARHOMBI_DN5797_c1_g1_i2_6	3	30,6	15,196	127,02	PF00248.20	Aldo_ket_red	46,1	3,30E-12	No_clan
ARHOMBI_DN5453_c0_g1_i1_1	9	20	71,222	54,202	PF00262.17	Calreticulin	485,8	6,30E-146	CL0004
ARHOMBI_DN4158_c0_g1_i1_4	4	12,6	49,83	73,516	PF08240.11	ADH_N	85,9	1,50E-24	CL0296
ARHOMBI_DN3362_c0_g1_i1_5	11	30,4	61,534	37,094	PF00091.24	Tubulin	235,4	5,70E-70	CL0566
ARUBRA_DN20595_c0_g1_i1_3	8	22,6	51,732	52,579	PF00012.19	HSP70	50,6	8,40E-14	CL0108
ARUBRA_DN427_c0_g2_i1_5	5	29,9	31,234	51,355	PF00438.19	S-AdoMet_synt_N	144,8	9,70E-43	No_clan
ARHOMBI_DN19156_c0_g1_i1_5	2	25,5	10,462	7,552	PF00459.24	Inositol_P	78,5	5,50E-22	CL0171
ARHOMBI_DN3290_c0_g1_i1_1	6	29,8	33,783	112,94	PF00156.26	Pribosyltran	65,6	3,40E-18	CL0533
ARUBRA_DN2245_c0_g2_i1_4	4	17,5	34,082	30,461	PF13848.5	Thioredoxin_6	35,8	7,00E-09	CL0172
ARHOMBI_DN19115_c0_g1_i1_6	6	36,9	21,403	37,619	PF00118.23	Cpn60_TCP1	118,4	3,00E-34	No_clan
ARHOMBI_DN5316_c0_g1_i1_2	8	18,4	45,003	74,282	PF01680.16	SOR_SNZ	372,1	6,90E-112	CL0036
ARUBRA_DN8606_c0_g1_i1_1	7	24,3	27,177	25,814	PF00647.18	EF1G	142,9	3,10E-42	No_clan
ARHOMBI_DN5381_c0_g1_i1_4	5	38,1	15,596	43,501	PF00238.18	Ribosomal_L14	120,2	4,70E-35	No_clan
ARUBRA_DN43_c0_g2_i1_6	3	13,8	21,186	29,571	PF02704.13	GASA	81,7	2,80E-23	No_clan
ARHOMBI_DN3956_c0_g1_i1_1	4	10	44,014	36,249	PF00141.22	peroxidase	273,7	1,10E-81	CL0617
ARUBRA_DN609_c0_g1_i1_6	4	14,9	55,095	32,919	PF00091.24	Tubulin	227,7	1,30E-67	CL0566
ARUBRA_DN2_c0_g1_i1_4	6	16,3	44,937	37,436	PF08241.11	Methyltransf_11	78	5,90E-22	CL0063
ARUBRA_DN1844_c0_g1_i1_1	6	22,7	41,194	39,176	PF01459.21	Porin_3	216,9	3,20E-64	CL0193
ARHOMBI_DN3609_c0_g2_i1_1	6	38,4	19,489	323,31	PF00248.20	Aldo_ket_red	51,8	6,10E-14	No_clan
ARHOMBI_DN3185_c0_g1_i1_4	6	19,9	49,274	39,456	PF05193.20	Peptidase_M16_C	116,9	9,20E-34	CL0094
ARUBRA_DN24520_c0_g1_i1_2	5	33,3	16,257	29,824	PF04832.11	SOUL	66,1	3,70E-18	CL0319
ARUBRA_DN4994_c0_g1_i2_3	2	7,2	37,575	113,76	PF01912.17	eIF-6	271,7	2,50E-81	CL0197
ARUBRA_DN19637_c0_g1_i1_2	9	28,2	49,492	103,37	PF00009.26	GTP_EFTU	145,6	1,20E-42	CL0023
ARUBRA_DN18881_c0_g1_i1_2	7	29,7	37,276	57,707	PF10584.8	Proteasome_A_N	49,6	2,10E-13	CL0052
ARHOMBI_DN5176_c0_g1_i1_6	4	20,8	26,81	323,31	PF01641.17	SelR	158,6	5,70E-47	CL0080
ARUBRA_DN13710_c0_g1_i1_3	1	11,8	15,126	8,3666	PF00182.18	Glyco_hydro_19	101	8,20E-29	CL0037
ARUBRA_DN18453_c0_g1_i1_3	4	37,3	17,808	302,26	PF00240.22	ubiquitin	70,8	5,30E-20	CL0072

ARHOMBI_DN5422_c0_g1_i1_5	10	42,8	43,186	142,06	PF07992.13	Pyr_redox_2	165,2	1,80E-48	CL0063
ARHOMBI_DN15946_c0_g1_i1_6	2	9,6	22,098	19,001					
ARHOMBI_DN4424_c0_g1_i1_1	5	14	52,641	31,574	PF00297.21	Ribosomal_L3	650,9	4,70E-196	CL0575
ARUBRA_DN3570_c0_g1_i1_3	6	38,2	18,429	42,251	PF00347.22	Ribosomal_L6	43,9	2,60E-11	No_clan
ARUBRA_DN2080_c0_g1_i1_2	4	36,8	16,871	85,141	PF00887.18	ACBP	58,5	5,30E-16	CL0632
ARUBRA_DN2407_c0_g1_i1_1	6	18,7	47,29	37,679	PF01370.20	Epimerase	200,1	3,40E-59	CL0063
ARUBRA_DN6096_c0_g1_i1_5	4	13,7	33,25	23,013	PF00687.20	Ribosomal_L1	145,1	2,00E-42	No_clan
ARUBRA_DN5878_c0_g1_i1_4	8	22,4	60,569	67,581	PF00224.20	PK	519,2	3,80E-156	CL0151
ARUBRA_DN462_c0_g2_i1_3	2	22,4	16,897	144,9					
ARHOMBI_DN8302_c0_g1_i1_6	4	27,9	24,207	28,552	PF00890.23	FAD_binding_2	217,1	4,10E-64	CL0063
ARHOMBI_DN6204_c0_g1_i2_1	8	27,2	45,65	49,563	PF00118.23	Cpn60_TCP1	200,5	3,80E-59	No_clan
ARUBRA_DN935_c0_g1_i1_4	2	8,6	32,411	12,578	PF02823.15	ATP-synt_DE_N	55,4	4,00E-15	No_clan
ARHOMBI_DN6019_c0_g1_i1_2	3	8	50,503	19,684	PF03168.12	LEA_2	51,8	8,50E-14	CL0159
ARHOMBI_DN4558_c0_g2_i1_1	2	14	30,967	24,155	PF00108.22	Thiolase_N	163,7	4,80E-48	CL0046
ARUBRA_DN6207_c0_g1_i1_4	3	13,3	26,65	19,255	PF00900.19	Ribosomal_S4e	123,9	1,70E-36	No_clan
ARUBRA_DN17796_c0_g1_i1_2	8	23	60,008	49,115	PF00676.19	E1_dh	395,5	1,10E-118	CL0254
ARUBRA_DN4392_c0_g3_i1_4	7	20,4	44,199	323,31	PF00481.20	PP2C	183,1	6,90E-54	CL0238
ARUBRA_DN2862_c0_g2_i1_5	3	48,8	8,4652	23,867	PF03492.14	Methyltransf_7	30,8	1,60E-07	CL0063
ARUBRA_DN18480_c0_g1_i1_4	3	15,1	37,121	26,899	PF00108.22	Thiolase_N	305,8	2,10E-91	CL0046
ARHOMBI_DN6139_c0_g1_i1_4	5	23,7	32,564	35,476	PF10584.8	Proteasome_A_N	50,2	1,40E-13	CL0052
ARHOMBI_DN5986_c0_g1_i2_6	3	20,4	19,903	204,97	PF00403.25	HMA	63	2,40E-17	No_clan
ARHOMBI_DN20063_c0_g1_i1_4	3	21,5	17,959	48,411	PF00240.22	ubiquitin	62,5	2,20E-17	CL0072
ARHOMBI_DN5759_c0_g1_i1_6	7	23,2	45,034	49,693	PF17144.3	Ribosomal_L5e	274,6	2,40E-82	CL0267
ARHOMBI_DN3534_c0_g1_i1_3	4	16,4	31,226	25,23	PF00210.23	Ferritin	112,9	1,00E-32	CL0044
ARUBRA_DN11326_c0_g1_i1_6	4	19,8	22,616	139,57	PF08694.10	UFC1	276,4	4,50E-83	CL0208
ARUBRA_DN2423_c0_g1_i1_1	4	13,9	31,518	23,715	PF00827.16	Ribosomal_L15e	314,1	2,80E-94	CL0652
ARUBRA_DN3020_c0_g1_i1_1	4	18,9	29,357	29,709	PF16845.4	SQAPI	73,1	1,60E-20	CL0121
ARUBRA_DN12109_c0_g1_i1_6	1	19,4	11,074	11,689	PF00627.30	UBA	58,7	3,40E-16	CL0214
ARUBRA_DN16721_c0_g1_i1_2	7	45,3	29,673	76,668	PF01588.19	tRNA_bind	86,6	8,20E-25	CL0021
ARUBRA_DN4896_c0_g1_i1_4	5	16,5	35,872	48,838	PF01937.18	DUF89	185,1	1,70E-54	No_clan

ARHOMBI_DN347_c0_g1_i1_1	3	7,4	51,312	101,51	PF12708.6	Pectate_lyase_3	27,7	2,20E-06	CL0268
ARUBRA_DN3353_c0_g1_i1_5	5	17,5	38,1	323,31	PF04774.14	HABP4_PAI-RBP1	103,9	8,40E-30	No_clan
ARHOMBI_DN1690_c0_g1_i1_4	7	21,3	32,837	95,551					
ARUBRA_DN4036_c0_g1_i1_5	3	21,8	20,041	51,319	PF03179.14	V-ATPase_G	110,2	5,90E-32	CL0255
ARHOMBI_DN3961_c0_g1_i1_1	2	5,7	46,254	39,981	PF08597.9	eIF3_subunit	170,3	5,90E-50	No_clan
ARUBRA_DN6223_c0_g1_i1_2	6	31,1	29,551	43,23	PF03446.14	NAD_binding_2	87,4	1,00E-24	CL0063
ARUBRA_DN17757_c0_g1_i1_6	7	26,9	37,184	168,59	PF00071.21	Ras	203,1	1,90E-60	CL0023
ARUBRA_DN1661_c0_g1_i1_3	5	24,4	24,171	99,853	PF06094.11	GGACT	83,7	1,30E-23	CL0278
ARUBRA_DN2570_c0_g2_i1_5	3	42,2	9,515	239,4	PF00085.19	Thioredoxin	76,9	8,90E-22	CL0172
ARUBRA_DN2915_c0_g1_i1_5	12	29,6	58,034	72,307	PF00155.20	Aminotran_1_2	315	6,30E-94	CL0061
ARUBRA_DN4959_c0_g1_i4_6	5	19	26,362	32,621	PF00338.21	Ribosomal_S10	94,7	2,80E-27	No_clan
ARUBRA_DN4738_c0_g1_i1_6	4	23,2	25,794	115,26	PF01248.25	Ribosomal_L7Ae	89,8	6,70E-26	CL0101
ARHOMBI_DN5099_c0_g2_i1_3	5	11	56,252	30,594	PF00153.26	Mito_carr	73	1,30E-20	No_clan
ARHOMBI_DN6124_c0_g2_i1_6	16	32	64,078	121,2	PF00162.18	PGK	541,5	9,10E-163	No_clan
ARUBRA_DN22130_c0_g1_i1_6	5	19,9	32,133	323,31	PF01472.19	PUA	63	1,70E-17	CL0178
ARHOMBI_DN17024_c0_g1_i1_5	5	28,1	22,094	41,641	PF13410.5	GST_C_2	26,2	5,50E-06	CL0497
ARHOMBI_DN3923_c0_g2_i1_3	3	40	10,99	123,48					
ARUBRA_DN16253_c0_g1_i1_2	7	32,5	31,391	49,669	PF00224.20	PK	157,5	3,80E-46	CL0151
ARUBRA_DN18651_c0_g1_i1_6	9	22,2	41,473	94,552					
ARHOMBI_DN16154_c0_g1_i1_2	4	16,5	31,129	216,53	PF06201.12	PITH	135,7	1,30E-39	CL0202
ARUBRA_DN5051_c0_g1_i1_2	10	29,3	42,057	98,688	PF00244.19	14.03.2003	345,8	8,30E-104	No_clan
ARHOMBI_DN2561_c0_g1_i1_3	4	23	22,139	24,375	PF01776.16	Ribosomal_L22e	155,6	4,70E-46	No_clan
ARUBRA_DN1380_c0_g2_i1_2	9	16,7	76,246	59,965	PF07991.11	IlvN	107,4	5,20E-31	CL0063
ARUBRA_DN2595_c0_g3_i1_4	2	11,2	26,673	12,886	PF00828.18	Ribosomal_L27A	71,9	6,60E-20	CL0588
ARUBRA_DN3028_c0_g1_i1_1	5	17,1	32,766	124,25	PF02297.16	COX6B	58	7,90E-16	CL0351
ARUBRA_DN3878_c0_g1_i1_3	5	34,9	21,128	33,932	PF02785.18	Biotin_carb_C	124,3	2,00E-36	CL0105
ARUBRA_DN2248_c0_g1_i1_6	6	19,1	50,708	42,914	PF03088.15	Str_synth	108,6	1,20E-31	CL0186
ARUBRA_DN3983_c0_g1_i1_4	8	19,5	70,613	56,116	PF00330.19	Aconitase	254,7	1,70E-75	No_clan
ARUBRA_DN7521_c0_g1_i1_3	3	15	20,257	18,985	PF07944.11	Glyco_hydro_127	81,8	3,60E-23	CL0059
ARUBRA_DN15944_c0_g1_i1_3	3	34,1	8,6768	20,625	PF05694.10	SBP56	118	4,50E-34	CL0186
ARUBRA_DN4965_c10_g1_i1_3	11	29,5	60,264	69,862	PF02847.16	MA3	99,9	7,40E-29	CL0020

ARHOMBI_DN2725_c0_g1_i1_2	1	4,2	25,872	6,3587	PF00079.19	Serpin	122,2	2,90E-35	No_clan
ARHOMBI_DN4252_c0_g1_i1_5	6	20,9	31,694	19,232	PF00347.22	Ribosomal_L6	45	1,20E-11	No_clan
ARHOMBI_DN5741_c0_g1_i1_3	3	10,9	35,566	18,373	PF03868.14	Ribosomal_L6e_N	60,7	1,00E-16	No_clan
ARHOMBI_DN4907_c0_g1_i1_4	8	32,6	33,16	129,01	PF01287.19	eIF-5a	99,8	6,10E-29	CL0021
ARHOMBI_DN3938_c0_g1_i1_4	2	8,3	26,85	23,729	PF02230.15	Abhydrolase_2	68,5	6,30E-19	CL0028
ARUBRA_DN17582_c0_g1_i1_4	2	18,3	11,566	284,45	PF13419.5	HAD_2	24,5	2,20E-05	CL0137
ARUBRA_DN9146_c0_g1_i1_2	2	10,6	25,802	174,16	PF01984.19	dsDNA_bind	106,5	7,80E-31	No_clan
ARHOMBI_DN15390_c0_g1_i1_4	3	11,6	34,688	30,865	PF13181.5	TPR_8	18,2	0,0018	CL0020
ARHOMBI_DN4487_c0_g1_i1_2	10	26,6	54,658	263,05	PF00790.18	VHS	62,5	3,50E-17	CL0009
ARUBRA_DN1889_c0_g1_i1_3	4	17,9	34,422	31,856	PF01294.17	Ribosomal_L13e	260,1	9,00E-78	No_clan
ARUBRA_DN4712_c0_g2_i1_6	2	8,5	27,272	12,996	PF16906.4	Ribosomal_L26	127,4	2,00E-37	No_clan
ARUBRA_DN4939_c0_g1_i3_5	3	32	17,488	26,585	PF00428.18	Ribosomal_60s	85,7	2,20E-24	No_clan
ARUBRA_DN4833_c0_g1_i2_5	1	9,5	10,583	50,398	PF04568.11	IATP	21,7	0,0002	No_clan
ARUBRA_DN2992_c0_g1_i1_3	3	11,4	32,037	205,25	PF01652.17	IF4E	175,5	5,90E-52	CL0625
ARUBRA_DN7857_c0_g1_i1_1	3	37	14,059	307,39	PF02115.16	Rho_GDI	72,3	3,90E-20	No_clan
ARUBRA_DN22505_c0_g1_i1_3	4	34,4	13,351	24,222	PF15511.5	CENP-T_C	33,8	2,60E-08	CL0012
ARUBRA_DN21075_c0_g1_i1_5	4	31	17,924	77,158	PF01088.20	Peptidase_C12	78,8	4,40E-22	CL0125
ARHOMBI_DN5548_c0_g1_i1_5	5	14,1	68,555	35,791	PF02776.17	TPP_enzyme_N	117,4	4,70E-34	CL0254
ARUBRA_DN2771_c0_g1_i1_5	10	24,8	57,338	60,875					
ARUBRA_DN4858_c0_g1_i1_4	3	19	13,507	21,042	PF01200.17	Ribosomal_S28e	109,8	4,10E-32	CL0021
ARUBRA_DN25882_c0_g1_i1_2	4	45,9	11,102	25,424	PF00330.19	Aconitase	57,4	1,20E-15	No_clan
ARHOMBI_DN6034_c0_g1_i3_3	14	30,6	50,254	12,895	PF00012.19	HSP70	589,8	4,30E-177	CL0108
ARHOMBI_DN5395_c0_g1_i1_3	7	24,2	52,701	46,979	PF07992.13	Pyr_redox_2	179,4	8,50E-53	CL0063
ARUBRA_DN2691_c0_g1_i1_5	3	11,3	28,564	36,752	PF00254.27	FKBP_C	94,9	2,60E-27	CL0487
ARUBRA_DN16143_c0_g1_i1_5	2	9	24,729	13,068	PF01929.16	Ribosomal_L14e	93	1,20E-26	CL0107
ARUBRA_DN7703_c0_g1_i1_6	7	20,1	47,201	43,973	PF00071.21	Ras	183,4	2,10E-54	CL0023
ARHOMBI_DN5124_c0_g1_i1_4	2	11,5	23,675	12,377	PF01283.18	Ribosomal_S26e	180,2	1,10E-53	No_clan
ARHOMBI_DN3648_c0_g1_i1_4	4	24,8	18,323	23,525	PF08069.11	Ribosomal_S13_N	109,6	5,00E-32	No_clan
ARHOMBI_DN1734_c0_g1_i1_3	4	25,3	26,032	31,606	PF01145.24	Band_7	86,4	2,10E-24	CL0433
ARUBRA_DN9894_c0_g1_i1_4	6	22,8	46,923	51,349	PF00112.22	Peptidase_C1	247,7	1,30E-73	CL0125
ARUBRA_DN2456_c0_g1_i1_2	4	16,9	37,115	27,781	PF03492.14	Methyltransf_7	280,4	1,90E-83	CL0063
ARUBRA_DN6971_c0_g1_i1_6	4	14,4	33,704	27,587	PF10584.8	Proteasome_A_N	49,4	2,30E-13	CL0052

ARHOMBI_DN516_c0_g1_i1_6	3	10,8	27,326	18,121	PF00190.21	Cupin_1	166,9	2,10E-49	CL0029
ARUBRA_DN3974_c0_g1_i1_1	3	26,7	20,476	37,37	PF01722.17	BolA	69,2	2,50E-19	No_clan
ARUBRA_DN19869_c0_g1_i1_3	3	31,3	18,067	15,8	PF01370.20	Epimerase	90,2	1,30E-25	CL0063
ARUBRA_DN5948_c0_g1_i1_2	6	30,9	22,521	37,908	PF00342.18	PGI	240,5	2,70E-71	CL0067
ARUBRA_DN20440_c0_g1_i1_3	1	26,1	7,6086	18,27					
ARUBRA_DN20805_c0_g1_i1_5	1	5,6	15,732	-2					
ARUBRA_DN1508_c0_g1_i1_1	5	42,6	17,104	25,585	PF00080.19	Sod_Cu	167,5	1,70E-49	No_clan
ARUBRA_DN8181_c0_g1_i1_4	6	22,7	37,542	37,092	PF10584.8	Proteasome_A_N	56,4	1,50E-15	CL0052
ARHOMBI_DN5015_c0_g1_i1_3	4	18	36,022	126,87	PF01168.19	Ala_racemase_N	81,6	5,90E-23	CL0036
ARUBRA_DN11787_c0_g1_i1_3	1	7,8	21,039	7,438	PF06201.12	PITH	100,7	8,30E-29	CL0202
ARHOMBI_DN5946_c1_g1_i1_6	2	5,6	45,041	12,964	PF03951.18	Gln-synt_N	36,3	3,20E-09	No_clan
ARUBRA_DN23186_c0_g1_i1_4	3	31	14,453	77,123	PF00076.21	RRM_1	78,1	3,00E-22	CL0221
ARUBRA_DN3089_c0_g1_i1_6	5	17,7	39,876	29,39	PF01459.21	Porin_3	252,1	6,00E-75	CL0193
ARUBRA_DN1937_c0_g1_i1_4	1	1,9	65,374	6,2402					
ARHOMBI_DN9002_c0_g1_i1_5	2	28,6	16,218	164,34	PF00076.21	RRM_1	83,2	7,70E-24	CL0221
ARHOMBI_DN10315_c0_g1_i1_4	4	28,5	20,106	28,574	PF02786.16	CPSase_L_D2	231,8	5,60E-69	CL0179
ARUBRA_DN20947_c0_g1_i1_6	4	32,9	23,201	98,524	PF01722.17	BolA	49,4	3,80E-13	No_clan
ARUBRA_DN18979_c0_g1_i1_5	5	23	30,312	100,72	PF02878.15	PGM_PMM_I	127	3,80E-37	No_clan
ARUBRA_DN6370_c0_g1_i1_6	4	10,5	43,063	26,737	PF00248.20	Aldo_ket_red	237,8	1,30E-70	No_clan
ARHOMBI_DN16206_c0_g1_i1_4	3	11,8	32,306	119,24	PF00543.21	P-II	114,6	2,50E-33	CL0089
ARHOMBI_DN6026_c0_g2_i1_4	6	24,7	47,652	46,369	PF00438.19	S-AdoMet_synt_N	143,2	3,00E-42	No_clan
ARHOMBI_DN11466_c0_g1_i1_1	2	26	11,079	27,055	PF00171.21	Aldedh	76,5	1,40E-21	CL0099
ARUBRA_DN6756_c0_g1_i1_3	5	38,6	24,931	47,312	PF03727.15	Hexokinase_2	204,3	1,90E-60	CL0108
ARHOMBI_DN7040_c0_g1_i1_2	1	18,4	9,5738	-2					
ARHOMBI_DN11661_c0_g1_i1_3	2	17,5	17,435	24,384	PF00171.21	Aldedh	142,7	1,10E-41	CL0099
ARHOMBI_DN23618_c0_g1_i1_3	2	18,8	13,116	11,931	PF00076.21	RRM_1	61,9	3,50E-17	CL0221
ARUBRA_DN6507_c0_g1_i1_3	3	41,8	11,817	42,041					
ARHOMBI_DN21306_c0_g1_i1_1	3	21,7	18,775	20,888					
ARHOMBI_DN16200_c0_g1_i1_5	4	33,7	17,934	116,32	PF08244.11	Glyco_hydro_32C	66,6	2,30E-18	CL0004
ARHOMBI_DN18668_c0_g1_i1_4	2	17,6	14,786	15,471	PF00109.25	ketoacyl-synt	26,8	3,20E-06	CL0046
ARHOMBI_DN7785_c0_g1_i1_5	4	30	11,457	140,03	PF08991.9	MTCP1	48,3	8,10E-13	CL0351
ARHOMBI_DN2296_c0_g2_i1_6	12	27,1	58,327	323,31	PF00152.19	tRNA-synt_2	202,6	7,40E-60	CL0040
ARUBRA_DN4291_c0_g1_i1_3	2	11,1	22,884	14,075	PF00276.19	Ribosomal_L23	51,9	7,00E-14	No_clan

ARHOMBI_DN4083_c0_g1_i1_6	4	23,8	29,009	22,423	PF05193.20	Peptidase_M16_C	59	5,40E-16	CL0094
ARHOMBI_DN5446_c0_g1_i1_5	5	9,6	61,735	30,393	PF02020.17	W2	69	2,70E-19	CL0020
ARUBRA_DN8529_c0_g1_i1_1	5	38,4	21,774	35,157	PF06957.10	COPI_C	217,6	2,30E-64	CL0020
ARUBRA_DN4933_c0_g1_i2_4	3	9,9	43,297	19,289	PF00333.19	Ribosomal_S5	107,6	2,10E-31	CL0196
ARUBRA_DN3170_c0_g1_i1_4	7	19,2	48,573	161,78	PF00782.19	DSPc	41,6	8,90E-11	CL0031
ARUBRA_DN4127_c0_g2_i1_4	5	15,3	54,996	33,545	PF00180.19	Iso_dh	349,8	1,50E-104	CL0270
ARUBRA_DN6378_c0_g1_i1_2	6	21,5	43,707	13,206	PF00614.21	PLDc	42,1	5,40E-11	CL0479
ARUBRA_DN2301_c0_g1_i1_1	3	22,5	19,679	20,041					
ARUBRA_DN16958_c0_g1_i1_6	3	21,5	31,854	26,614	PF00224.20	PK	88,3	4,00E-25	CL0151
ARUBRA_DN256_c0_g2_i1_1	8	20	63,607	261,7	PF00789.19	UBX	63,2	1,80E-17	CL0072
ARHOMBI_DN2281_c0_g1_i1_1	4	19,4	29,855	26,74	PF00719.18	Pyrophosphatase	181,1	1,20E-53	No_clan
ARHOMBI_DN6231_c0_g2_i2_2	4	11,4	35,859	24,312	PF13561.5	adh_short_C2	199	7,60E-59	CL0063
ARHOMBI_DN835_c0_g1_i1_4	2	14,7	20,804	18,442	PF00177.20	Ribosomal_S7	110,5	5,20E-32	No_clan
ARUBRA_DN4252_c0_g2_i2_4	9	12,3	125,44	55,439	PF02347.15	GDC-P	610,6	1,30E-183	CL0061
ARHOMBI_DN11662_c0_g1_i1_4	1	47,1	7,3263	6,4307					
ARUBRA_DN21714_c0_g1_i1_3	3	13,8	21,729	18,25	PF01199.17	Ribosomal_L34e	129,2	5,00E-38	No_clan
ARHOMBI_DN4867_c0_g1_i1_5	5	18,5	36,761	33,158	PF00227.25	Proteasome	158,6	1,10E-46	CL0052
ARHOMBI_DN5538_c0_g1_i1_5	5	17,1	39,593	39,671	PF14290.5	DUF4370	390,8	2,50E-117	No_clan
ARUBRA_DN9182_c0_g1_i1_2	1	9,8	13,492	12,093	PF00012.19	HSP70	130,5	5,20E-38	CL0108
ARUBRA_DN4826_c0_g1_i1_4	3	21,7	29,1	97,683	PF06747.12	CHCH	35	1,00E-08	CL0351
ARHOMBI_DN21064_c0_g1_i1_2	3	43,3	10,887	17,926	PF00349.20	Hexokinase_1	94,6	7,00E-27	CL0108
ARHOMBI_DN50_c0_g3_i1_6	4	13,3	40,404	25,74	PF03345.13	DDOST_48kD	317,3	1,30E-94	No_clan
ARUBRA_DN4961_c0_g1_i2_4	2	26	10,676	6,9694	PF00450.21	Peptidase_S10	68,8	5,50E-19	CL0028
ARHOMBI_DN5474_c0_g1_i1_5	4	25,3	25,725	47,288	PF00257.18	Dehydrin	52,8	6,00E-14	No_clan
ARUBRA_DN3097_c0_g2_i1_2	6	44,2	24,21	43,508	PF00012.19	HSP70	245,2	9,90E-73	CL0108
ARUBRA_DN7003_c0_g1_i1_4	1	10,8	25,514	6,8674					
ARHOMBI_DN20442_c0_g1_i1_1	1	7,2	11,432	6,515					
ARUBRA_DN3105_c0_g1_i1_1	3	19,8	21,694	20,201					
ARUBRA_DN18186_c0_g1_i1_5	1	12,2	7,7414	15,67					

ARUBRA_DN3014_c0_g1_i1_2	12	17,1	99,257	83,13	PF02446.16	Glyco_hydro_77	504,9	1,90E-151	CL0058
ARUBRA_DN12532_c0_g1_i1_5	2	32,9	7,5016	31,206	PF13668.5	Ferritin_2	30,4	3,40E-07	CL0044
ARHOMBI_DN5429_c0_g1_i1_2	4	13,6	35,298	33,011	PF01738.17	DLH	101,3	5,00E-29	CL0028
ARHOMBI_DN16845_c0_g1_i1_5	5	26,8	20,611	30,724	PF00637.19	Clathrin	77,9	6,30E-22	CL0020
ARUBRA_DN720_c0_g1_i1_6	4	9,3	37,759	23,267	PF00163.18	Ribosomal_S4	29	1,40E-06	CL0492
ARHOMBI_DN17235_c0_g1_i1_3	5	19,7	42,656	99,462	PF00890.23	FAD_binding_2	112,6	2,20E-32	CL0063
ARUBRA_DN2328_c0_g2_i1_4	2	11,9	20,093	12,208	PF01667.16	Ribosomal_S27e	89,9	5,60E-26	CL0167
ARUBRA_DN4073_c0_g1_i1_2	4	14,8	46,244	27,491	PF10584.8	Proteasome_A_N	51,2	6,20E-14	CL0052
ARHOMBI_DN1161_c0_g1_i1_2	4	11,7	49,293	27,908	PF02990.15	EMP70	445,5	2,30E-133	No_clan
ARHOMBI_DN22444_c0_g1_i1_1	5	18,8	33,968	315,36	PF00248.20	Aldo_ket_red	163,3	6,50E-48	No_clan
ARHOMBI_DN5200_c0_g2_i1_5	3	14,6	33,099	20,107	PF01280.19	Ribosomal_L19e	220,8	6,10E-66	No_clan
ARHOMBI_DN19654_c0_g1_i1_2	3	16,2	19,656	18,932					
ARHOMBI_DN2987_c0_g1_i1_5	7	15,8	63,886	45,288	PF00285.20	Citrate_synt	344,2	7,90E-103	No_clan
ARHOMBI_DN6144_c0_g1_i1_4	2	5,1	60,854	14,946	PF00112.22	Peptidase_C1	283,2	1,70E-84	CL0125
ARUBRA_DN4862_c0_g1_i1_4	19	45,9	53,371	-2	PF00162.18	PGK	558,8	4,90E-168	No_clan
ARHOMBI_DN1127_c0_g2_i1_4	1	6,6	30,719	8,243	PF03151.15	TPT	237,3	2,00E-70	CL0184
ARUBRA_DN17228_c1_g1_i1_1	5	22,8	38,06	47,628	PF10584.8	Proteasome_A_N	33,9	1,70E-08	CL0052
ARHOMBI_DN4125_c0_g1_i1_5	4	25,7	23,261	17,067	PF01248.25	Ribosomal_L7Ae	88,6	1,50E-25	CL0101
ARHOMBI_DN4270_c0_g1_i1_2	2	11,6	24,15	11,047	PF00393.18	6PGD	151,5	2,90E-44	CL0106
ARUBRA_DN4844_c0_g1_i1_2	3	18,8	21,664	20,843	PF03297.14	Ribosomal_S25	133,9	1,90E-39	CL0123
ARUBRA_DN13846_c0_g1_i1_5	2	33,8	7,9931	75,424	PF00026.22	Asp	74,3	1,00E-20	CL0129
ARUBRA_DN5052_c0_g2_i1_1	3	17,5	18,941	55,134					
ARUBRA_DN4025_c0_g2_i1_5	2	7,1	26,94	11,052	PF00410.18	Ribosomal_S8	75,4	3,40E-21	No_clan
ARUBRA_DN4599_c2_g1_i1_4	3	14,2	37,277	264,84	PF01217.19	Clat_adaptor_s	78,2	5,40E-22	CL0212
ARUBRA_DN21659_c0_g1_i1_3	3	31,2	15,796	18,009	PF04969.15	CS	35,5	1,50E-08	CL0190
ARHOMBI_DN17850_c0_g1_i1_6	4	13,1	37,482	73,312	PF00857.19	Isochorismatase	116,4	1,40E-33	No_clan
ARUBRA_DN2529_c0_g2_i1_6	5	15,4	54,738	323,31	PF13519.5	VWA_2	96,1	1,70E-27	CL0128
ARHOMBI_DN6264_c0_g1_i5_2	13	40,9	43,731	23,453	PF00724.19	Oxidored_FMN	300,7	1,30E-89	CL0036
ARHOMBI_DN5393_c0_g1_i1_1	7	18,9	46,12	8,9466	PF00561.19	Abhydrolase_1	78,2	7,10E-22	CL0028

ARUBRA_DN3140_c0_g1_i1_5	3	8,9	39,003	18,32	PF00166.20	Cpn10	97,7	2,80E-28	CL0296
ARHOMBI_DN5550_c0_g1_i1_2	5	18,8	36,189	32,364	PF12353.7	eIF3g	117,3	4,80E-34	CL0511
ARUBRA_DN3107_c0_g1_i1_6	5	16,6	38,069	109,01	PF08059.12	SEP	94,6	3,60E-27	No_clan
ARUBRA_DN4381_c0_g1_i1_5	5	13,5	62,602	323,31	PF00282.18	Pyridoxal_deC	349,2	2,00E-104	CL0061
ARUBRA_DN3552_c0_g1_i1_4	5	25,2	29,698	29,959	PF00656.21	Peptidase_C14	78,3	8,00E-22	CL0093
ARUBRA_DN3608_c0_g1_i1_6	3	34	16,317	17,88	PF02221.14	E1_DerP2_DerF2	57,6	1,70E-15	CL0532
ARHOMBI_DN17898_c0_g1_i1_3	5	20,9	35,515	30,948	PF01432.19	Peptidase_M3	284,1	2,50E-84	CL0126
ARHOMBI_DN17178_c0_g1_i1_4	2	13,5	18,352	192,46	PF02879.15	PGM_PMM_II	51,3	1,30E-13	No_clan
ARUBRA_DN4547_c0_g1_i1_6	4	13,4	36,103	323,31					
ARHOMBI_DN486_c0_g1_i1_1	3	44,7	8,3352	182,69					
ARHOMBI_DN5664_c0_g1_i1_5	3	13,3	21,63	29,407	PF00234.21	Tryp_alpha_amyl	23,8	4,30E-05	CL0482
ARHOMBI_DN7133_c0_g1_i1_1	4	28,8	17,483	25,079	PF00122.19	E1-E2_ATPase	134,8	2,10E-39	No_clan
ARHOMBI_DN5590_c0_g1_i1_4	3	12,9	36,912	25,138	PF13085.5	Fer2_3	111,6	1,60E-32	CL0486
ARHOMBI_DN3067_c0_g1_i1_1	6	19,1	40,357	27,017	PF00244.19	14.03.2003	324,2	3,40E-97	No_clan
ARUBRA_DN3632_c0_g1_i1_6	4	21,2	25,831	190,94	PF00370.20	FGGY_N	192,1	1,10E-56	CL0108
ARUBRA_DN5040_c0_g4_i8_2	2	8,4	29,402	8,8548	PF13561.5	adh_short_C2	196,9	3,30E-58	CL0063
ARHOMBI_DN9099_c0_g1_i1_1	1	9,6	14,493	6,3659					
ARHOMBI_DN1783_c0_g2_i1_3	2	18,9	21,263	78,401	PF00481.20	PP2C	136,8	9,10E-40	CL0238
ARUBRA_DN5025_c0_g1_i3_3	8	10,6	116,05	52,143	PF00690.25	Cation_ATPase_N	50,3	1,30E-13	No_clan
ARUBRA_DN1938_c0_g1_i1_1	4	14,1	38,634	25,322	PF10584.8	Proteasome_A_N	50,4	1,20E-13	CL0052
ARHOMBI_DN16492_c0_g1_i1_4	6	14,8	67,27	125,53	PF07732.14	Cu-oxidase_3	120,1	4,70E-35	CL0026
ARUBRA_DN5418_c0_g1_i1_4	5	12,8	50,686	38,244	PF00285.20	Citrate_synt	445,8	1,00E-133	No_clan
ARHOMBI_DN13783_c0_g1_i1_2	2	22,2	10,28	158,79					
ARHOMBI_DN16013_c0_g1_i1_5	5	35,8	14,171	11,652	PF08267.11	Meth_synt_1	67,4	1,40E-18	CL0160
ARUBRA_DN19786_c0_g1_i1_6	1	7,9	16,911	7,4601	PF16113.4	ECH_2	76,2	3,00E-21	CL0127
ARUBRA_DN5795_c0_g1_i1_1	3	12,9	36,853	22,69	PF07992.13	Pyr_redox_2	44,1	1,40E-11	CL0063
ARHOMBI_DN6222_c0_g1_i1_3	4	16,7	29,394	34,257	PF00462.23	Glutaredoxin	61,5	6,00E-17	CL0172
ARHOMBI_DN3998_c0_g1_i1_1	2	8,3	39,426	16,329	PF02921.13	UCR_TM	45,9	5,20E-12	CL0300
ARUBRA_DN25017_c0_g1_i1_1	1	19,8	10,941	7,6609	PF01263.19	Aldose_epim	74,4	8,90E-21	CL0103
ARUBRA_DN2627_c0_g1_i1_2	5	12,2	60,456	34,91	PF00450.21	Peptidase_S10	427,1	9,10E-128	CL0028

ARHOMBI_DN2324_c0_g1_i1_5	4	41,6	14,952	144,57					
ARUBRA_DN6463_c0_g1_i1_2	2	10,5	26,181	12,973					
ARUBRA_DN18383_c0_g1_i1_3	1	6,3	22,675	7,7285					
ARUBRA_DN4889_c0_g1_i1_6	10	35	47,493	32,403	PF00004.28	AAA	159,8	4,10E-47	CL0023
ARHOMBI_DN6134_c0_g1_i1_6	8	18,8	55,473	142,61	PF01370.20	Epimerase	78,9	3,60E-22	CL0063
ARHOMBI_DN3483_c0_g3_i1_5	3	9,2	38,101	29,997	PF11891.7	RETICULATA-like	220,9	9,50E-66	No_clan
ARUBRA_DN11125_c0_g1_i1_4	3	45,7	8,1552	19,036	PF01991.17	vATP-synt_E	61,5	6,50E-17	CL0255
ARHOMBI_DN13455_c0_g1_i1_1	2	16,8	11,885	12,992	PF00462.23	Glutaredoxin	77,3	7,30E-22	CL0172
ARHOMBI_DN5719_c0_g1_i1_2	3	16,6	22,909	19,045	PF00380.18	Ribosomal_S9	94,4	6,50E-27	CL0329
ARHOMBI_DN25944_c0_g1_i1_6	1	13,9	7,7497	7,8502	PF02866.17	Ldh_1_C	41,8	9,70E-11	CL0341
ARHOMBI_DN1498_c0_g1_i1_1	1	6,6	12,785	6,5246	PF03168.12	LEA_2	41,2	1,70E-10	CL0159
ARUBRA_DN3905_c0_g1_i1_4	3	11,7	37,441	19,148	PF13561.5	adh_short_C2	226,7	2,50E-67	CL0063
ARUBRA_DN8419_c0_g1_i1_3	3	15,9	40,508	25,135	PF00342.18	PGI	438,7	2,20E-131	CL0067
ARUBRA_DN11134_c0_g1_i1_6	6	26,6	28,094	35,744	PF01145.24	Band_7	30,2	3,80E-07	CL0433
ARHOMBI_DN2322_c0_g1_i1_2	4	14,9	42,322	40,736	PF01263.19	Aldose_epim	136,8	8,50E-40	CL0103
ARHOMBI_DN20297_c0_g1_i1_1	6	30,9	30,991	36,52	PF00044.23	Gp_dh_N	31,2	1,90E-07	CL0063
ARUBRA_DN4829_c0_g2_i2_4	5	21,9	25,396	32,662	PF01775.16	Ribosomal_L18A	180,7	8,60E-54	No_clan
ARUBRA_DN18092_c0_g1_i1_5	6	47,2	19,353	17,089	PF08240.11	ADH_N	81,4	3,70E-23	CL0296
ARHOMBI_DN10619_c0_g1_i1_4	4	25,3	18,219	25,183	PF01602.19	Adaptin_N	121,8	2,80E-35	CL0020
ARHOMBI_DN3191_c0_g1_i1_2	3	14,1	33,923	22,986	PF00025.20	Arf	217,2	9,40E-65	CL0023
ARUBRA_DN19085_c0_g1_i1_1	8	19,9	49,225	53,288	PF02990.15	EMP70	343,9	1,40E-102	No_clan
ARHOMBI_DN5770_c0_g2_i2_6	1	3	46,542	6,5095	PF00466.19	Ribosomal_L10	66	2,40E-18	No_clan
ARHOMBI_DN3157_c0_g1_i1_6	5	23,7	24,638	30,759	PF13561.5	adh_short_C2	135,9	1,50E-39	CL0063
ARUBRA_DN21700_c0_g1_i1_4	5	16,4	33,124	31,842	PF00571.27	CBS	30,4	3,60E-07	No_clan
ARHOMBI_DN16801_c0_g1_i1_1	3	25,8	23,307	13,912					
ARUBRA_DN192_c0_g1_i1_1	4	17	25,801	6,4273	PF00153.26	Mito_carr	82,6	1,30E-23	No_clan
ARHOMBI_DN24575_c0_g1_i1_1	1	18,3	10,314	11,6	PF01432.19	Peptidase_M3	50,8	1,50E-13	CL0126
ARHOMBI_DN5209_c2_g1_i1_4	8	36,1	30,283	53,638	PF13246.5	Cation_ATPase	38,3	9,80E-10	CL0137
ARUBRA_DN1890_c0_g2_i1_3	2	18,5	21,767	13,459	PF00085.19	Thioredoxin	103,9	3,60E-30	CL0172
ARUBRA_DN3867_c0_g1_i1_1	3	12,9	42,284	30,764	PF03896.15	TRAP_alpha	87,6	7,50E-25	No_clan
ARHOMBI_DN23168_c0_g1_i1_4	2	17,9	17,57	42,428	PF12710.6	HAD	50,8	2,40E-13	CL0137

ARHOMBI_DN3469_c0_g1_i1_3	4	18,2	39,019	29,478	PF00501.27	AMP-binding	143,5	6,50E-42	CL0378
ARUBRA_DN4948_c0_g2_i1_5	3	17,6	23,925	19,446	PF01655.17	Ribosomal_L32e	167,7	7,70E-50	No_clan
ARUBRA_DN3297_c0_g1_i1_1	3	23,3	20,216	310,5	PF01204.17	Trehalase	156,2	1,30E-45	CL0059
ARUBRA_DN2696_c0_g1_i1_3	4	40,6	11,92	6,2207	PF01370.20	Epimerase	69	3,80E-19	CL0063
ARHOMBI_DN15716_c0_g1_i1_4	4	40,1	21,665	29,022	PF02136.19	NTF2	41	2,30E-10	CL0051
ARHOMBI_DN4884_c0_g1_i1_2	4	12,7	43,801	25,102	PF16363.4	GDP_Man_Dehyd	183,9	4,80E-54	CL0063
ARUBRA_DN20045_c0_g1_i1_4	3	14,8	28,253	62,734	PF03912.13	Psb28	144,6	1,00E-42	No_clan
ARHOMBI_DN1594_c0_g1_i1_2	7	45,9	24,958	47,049	PF00012.19	HSP70	195,2	1,40E-57	CL0108
ARUBRA_DN4593_c0_g2_i1_4	5	22,4	27,636	13,123	PF00411.18	Ribosomal_S11	155,8	4,00E-46	CL0267
ARUBRA_DN4903_c0_g1_i1_3	3	14,6	22,968	19,017	PF01777.17	Ribosomal_L27e	105,4	1,40E-30	No_clan
ARHOMBI_DN18322_c0_g1_i1_3	3	69,9	8,8828	7,618	PF02878.15	PGM_PMM_I	56,9	1,70E-15	No_clan
ARUBRA_DN11129_c0_g1_i1_5	3	26,1	13,111	19,759					
ARUBRA_DN24080_c0_g1_i1_2	8	31,5	33,928	45,917	PF00224.20	PK	382,8	1,20E-114	CL0151
ARUBRA_DN10280_c0_g1_i1_1	5	46,3	15,144	323,31	PF09032.10	Siah-Interact_N	29,8	5,00E-07	No_clan
ARUBRA_DN19519_c0_g1_i1_5	3	37,8	12,471	45,578	PF14560.5	Ubiquitin_2	99,6	9,20E-29	CL0072
ARUBRA_DN5259_c0_g1_i1_6	6	22,2	50,999	235,43	PF02469.21	Fasciclin	24,7	2,00E-05	No_clan
ARUBRA_DN4393_c0_g2_i1_4	6	14,4	64,697	39,357					
ARHOMBI_DN5839_c1_g1_i1_5	4	21,3	21,658	39,983	PF00416.21	Ribosomal_S13	163,7	2,40E-48	CL0303
ARUBRA_DN10773_c0_g1_i1_4	3	27,2	19,907	74,029	PF01182.19	Glucosamine_iso	195,4	1,10E-57	CL0246
ARUBRA_DN21519_c0_g1_i1_5	4	19,5	26,789	12,909	PF08079.11	Ribosomal_L30_N	94,2	3,80E-27	No_clan
ARUBRA_DN6882_c0_g1_i1_3	3	23,9	16,386	30,664	PF00023.29	Ank	26,5	5,40E-06	CL0465
ARHOMBI_DN22543_c0_g1_i1_3	1	16,5	13,466	12,885	PF02298.16	Cu_bind_like	83,6	6,70E-24	CL0026
ARUBRA_DN9648_c0_g1_i1_1	3	14,3	31,248	22,447	PF04969.15	CS	36	1,00E-08	CL0190
ARUBRA_DN5039_c0_g1_i1_2	7	26,1	44,142	39,238	PF16884.4	ADH_N_2	89,4	1,20E-25	CL0296
ARHOMBI_DN18646_c0_g1_i1_5	2	15,1	18,271	12,607	PF06592.12	DUF1138	146,7	1,40E-43	No_clan
ARHOMBI_DN4447_c0_g1_i1_4	5	17,3	42,441	33,663	PF02629.18	CoA_binding	110,4	4,70E-32	CL0063
ARUBRA_DN2978_c0_g1_i1_6	4	17,8	25,242	27,369	PF04716.13	ETC_C1_NDUFA5	91,4	2,10E-26	No_clan
ARUBRA_DN7999_c0_g1_i1_2	6	24,7	40,174	37,7	PF00118.23	Cpn60_TCP1	283,6	2,50E-84	No_clan
ARHOMBI_DN5214_c0_g1_i1_4	3	18,7	28,192	179,77	PF00314.16	Thaumatin	215,6	6,40E-64	CL0293
ARUBRA_DN4195_c0_g1_i1_4	2	7,5	29,231	11,636	PF16205.4	Ribosomal_S17_N	109,5	6,90E-32	No_clan
ARHOMBI_DN6230_c0_g2_i3_1	3	10,2	24,599	17,199	PF00833.17	Ribosomal_S17e	163,9	1,30E-48	No_clan
ARUBRA_DN8665_c0_g1_i1_5	4	34,3	19,052	30,033	PF00400.31	WD40	25,6	1,40E-05	CL0186

ARHOMBI_DN19852_c0_g1_i1_3	4	59,8	9,8781	27,227	PF03141.15	Methyltransf_29	70,4	1,00E-19	CL0063
ARUBRA_DN7713_c0_g2_i1_1	4	17,8	32,342	25,178	PF01145.24	Band_7	72,2	4,80E-20	CL0433
ARHOMBI_DN15828_c0_g1_i1_6	5	21,8	31,261	33,137	PF09668.9	Asp_protease	184,1	6,40E-55	CL0129
ARHOMBI_DN965_c0_g1_i1_1	2	14,8	27,164	32,717	PF01217.19	Clat_adaptor_s	76,9	1,30E-21	CL0212
ARHOMBI_DN4105_c0_g1_i1_1	6	19,5	43,071	26,399	PF00244.19	14.03.2003	350,9	2,30E-105	No_clan
ARUBRA_DN6657_c0_g1_i1_6	3	51,3	12,425	25,926	PF05817.13	Ribophorin_II	56,9	1,40E-15	No_clan
ARUBRA_DN13405_c0_g1_i1_1	3	57,9	8,5656	17,981	PF00501.27	AMP-binding	27,4	1,10E-06	CL0378
ARUBRA_DN1195_c0_g1_i1_2	4	14,6	32,658	25,294	PF03737.14	RraA-like	147,7	2,50E-43	CL0364
ARUBRA_DN2242_c0_g1_i1_5	3	15,2	31,712	20,109	PF00311.16	PEPcase	247,9	1,80E-73	CL0151
ARHOMBI_DN3366_c0_g1_i1_4	3	12,7	39,707	19,095	PF01459.21	Porin_3	211	2,00E-62	CL0193
ARUBRA_DN6838_c0_g1_i1_3	5	21,9	28,2	30,863					
ARUBRA_DN10378_c0_g1_i1_1	4	47,9	10,759	23,903	PF00224.20	PK	25,8	4,20E-06	CL0151
ARHOMBI_DN5914_c0_g1_i1_4	4	9,2	62,314	26,291	PF01370.20	Epimerase	156,5	7,20E-46	CL0063
ARHOMBI_DN5134_c0_g1_i1_6	7	12,2	78,495	43,253	PF00005.26	ABC_tran	81,5	7,50E-23	CL0023
ARUBRA_DN16002_c0_g1_i1_2	1	25,4	7,2218	133,63					
ARUBRA_DN6617_c0_g1_i1_2	6	25,4	36,503	42,719	PF01182.19	Glucosamine_iso	239,6	3,40E-71	CL0246
ARHOMBI_DN7393_c0_g1_i1_3	6	28,8	30,312	137,53	PF00071.21	Ras	217,5	7,00E-65	CL0023
ARHOMBI_DN1339_c0_g1_i1_3	5	35,4	17,735	69,586	PF00481.20	PP2C	21,3	0,00016	CL0238
ARHOMBI_DN16218_c0_g1_i1_1	2	19	12,981	116,39	PF01179.19	Cu_amine_oxid	82,2	3,20E-23	No_clan
ARUBRA_DN3982_c0_g2_i1_1	7	22,3	43,955	40,496	PF05470.11	eIF-3c_N	94,2	5,80E-27	No_clan
ARHOMBI_DN2364_c0_g1_i1_5	7	32,7	30,42	45,486	PF14938.5	SNAP	253,2	2,90E-75	CL0020
ARHOMBI_DN5683_c0_g1_i2_5	7	18,3	58,574	45,292	PF01399.26	PCI	77	1,30E-21	CL0123
ARUBRA_DN14982_c0_g1_i1_3	2	12,9	17,651	173,26	PF13193.5	AMP-binding_C	64,4	1,30E-17	CL0531
ARHOMBI_DN21103_c0_g1_i1_1	2	17,7	21,383	51,846	PF00332.17	Glyco_hydro_17	173,6	6,10E-51	CL0058
ARUBRA_DN18762_c0_g1_i1_4	5	14,8	58,769	323,31	PF01363.20	FYVE	72,8	1,80E-20	CL0390
ARUBRA_DN4063_c0_g1_i2_5	4	13,5	45,814	27,697	PF00575.22	S1	49,3	4,40E-13	CL0021
ARUBRA_DN11481_c0_g1_i1_6	6	14,2	52,171	35,569	PF13460.5	NAD_binding_10	43,9	2,20E-11	CL0063
ARUBRA_DN934_c0_g1_i1_3	6	25,6	35,861	37,027	PF00227.25	Proteasome	113,1	1,00E-32	CL0052
ARUBRA_DN3268_c0_g1_i1_2	5	23,1	33,3	30,834	PF00224.20	PK	312,2	3,40E-93	CL0151
ARHOMBI_DN2479_c0_g1_i1_1	2	33	11,867	14,009					
ARUBRA_DN1490_c0_g1_i1_3	3	10,3	49,882	20,997	PF02779.23	Transket_pyr	157,6	2,30E-46	CL0254
ARUBRA_DN20284_c0_g1_i1_5	4	50,4	15,289	28,594	PF00565.16	SNase	35	1,50E-08	CL0049

ARUBRA_DN12380_c0_g1_i1_5	1	4,4	19,896	6,2972					
ARHOMBI_DN16116_c0_g1_i1_3	4	16,4	34,465	23,558					
ARHOMBI_DN6092_c0_g1_i1_1	8	24,3	47,805	242,95	PF00291.24	PALP	223,2	4,20E-66	No_clan
ARHOMBI_DN15878_c0_g1_i1_3	2	11,2	16,442	22,632	PF00076.21	RRM_1	45,8	3,80E-12	CL0221
ARHOMBI_DN2833_c0_g1_i1_1	5	18,8	36,889	42,483	PF01412.17	ArfGap	115,2	1,50E-33	No_clan
ARUBRA_DN16146_c0_g1_i1_4	6	28,2	31,374	43,344	PF06552.11	TOM20_plant	320,5	3,00E-96	CL0020
ARHOMBI_DN10766_c0_g1_i1_6	2	16,1	20,747	301,25	PF01928.20	CYTH	40,8	2,10E-10	CL0273
ARHOMBI_DN5588_c0_g1_i1_3	5	15,9	40,901	7,3621	PF00210.23	Ferritin	108	3,40E-31	CL0044
ARUBRA_DN22820_c0_g1_i1_3	2	22,2	10,068	127,39	PF06094.11	GGACT	28	2,50E-06	CL0278
ARHOMBI_DN5983_c0_g1_i1_5	4	10,1	50,69	27,057	PF00389.29	2-Hacid_dh	56,1	2,80E-15	CL0325
ARUBRA_DN20709_c0_g1_i1_5	5	47,3	18,835	18,225	PF01432.19	Peptidase_M3	133,7	1,00E-38	CL0126
ARUBRA_DN1983_c0_g1_i1_4	2	10,9	27,181	14,038	PF06417.11	DUF1077	129,5	5,70E-38	No_clan
ARHOMBI_DN3005_c0_g2_i1_6	3	14,8	26,537	21,43	PF01282.18	Ribosomal_S24e	128,6	6,20E-38	No_clan
ARHOMBI_DN5420_c0_g1_i1_2	7	17,8	57,974	50,383	PF00004.28	AAA	134,2	3,30E-39	CL0023
ARUBRA_DN3944_c0_g1_i1_3	5	25	30,442	34,027	PF00364.21	Biotin_lipoyl	52,6	2,80E-14	CL0105
ARHOMBI_DN18815_c0_g1_i1_6	2	18	16,872	37,865	PF16035.4	Chalcone_2	27,2	2,80E-06	CL0560
ARHOMBI_DN5059_c0_g1_i1_5	3	9,9	52,884	23,322	PF00012.19	HSP70	28	5,70E-07	CL0108
ARHOMBI_DN5953_c0_g1_i1_4	10	17,9	84,803	40,109	PF00076.21	RRM_1	70,1	9,60E-20	CL0221
ARUBRA_DN193_c0_g1_i1_1	3	13,8	25,423	17,937	PF01246.19	Ribosomal_L24e	100,7	3,60E-29	CL0175
ARUBRA_DN7445_c0_g1_i1_4	4	23,1	21,995	48,254					
ARHOMBI_DN18779_c0_g1_i1_3	2	11,2	29,815	51,239	PF00076.21	RRM_1	58,3	4,50E-16	CL0221
ARUBRA_DN19198_c0_g1_i1_2	6	45,2	21,454	34,835	PF00183.17	HSP90	157,1	6,60E-46	No_clan
ARHOMBI_DN5769_c0_g1_i1_5	3	12,3	32,01	17,65	PF00572.17	Ribosomal_L13	33,6	3,60E-08	No_clan
ARHOMBI_DN18804_c0_g1_i1_4	2	16,5	12,198	12,197	PF01704.17	UDPGP	21,7	6,00E-05	CL0110
ARHOMBI_DN7_c0_g2_i1_2	3	23,6	19,249	22,83	PF00113.21	Enolase_C	183,5	4,70E-54	CL0256
ARUBRA_DN3923_c0_g1_i1_5	2	11,7	19,948	323,31					
ARHOMBI_DN6177_c0_g2_i2_3	3	10,3	17,915	98,829					
ARHOMBI_DN24695_c0_g1_i1_4	2	26,3	12,228	67,773					
ARHOMBI_DN2476_c0_g1_i1_4	8	53	26,826	23,473	PF02874.22	ATP-synt_ab_N	53,3	2,70E-14	CL0275
ARHOMBI_DN22511_c0_g1_i1_1	3	22,8	22,025	120,62					
ARHOMBI_DN3114_c0_g1_i1_1	5	12,6	49,444	29,855	PF10559.8	Plug_translocon	65,8	2,10E-18	No_clan
ARUBRA_DN16322_c0_g1_i1_4	6	20,7	50,417	36,351	PF00491.20	Arginase	223,5	3,50E-66	CL0302
ARUBRA_DN3916_c0_g1_i1_5	6	43,3	30,628	22,901	PF00009.26	GTP_EFTU	218,8	4,20E-65	CL0023

ARUBRA_DN4811_c0_g2_i1_4	1	2,9	38,002	40,375	PF05184.14	SapB_1	36	4,80E-09	No_clan
ARUBRA_DN18543_c0_g1_i1_6	6	25,8	31,875	38,576					
ARHOMBI_DN3540_c0_g1_i1_2	6	28,9	34,333	31,812	PF00071.21	Ras	208,5	4,10E-62	CL0023
ARUBRA_DN478_c0_g1_i1_2	2	11,5	27,917	13,829	PF01641.17	SelR	156,4	2,90E-46	CL0080
ARUBRA_DN20269_c0_g1_i1_6	3	50,5	10,606	21,207	PF00400.31	WD40	26,5	7,40E-06	CL0186
ARUBRA_DN20878_c0_g1_i1_1	5	17,3	47,866	23,692	PF00694.18	Aconitase_C	167,4	1,70E-49	CL0364
ARHOMBI_DN912_c0_g1_i1_6	9	29,1	52,016	58,724	PF07718.11	Coatamer_beta_C	203,7	9,60E-61	CL0159
ARUBRA_DN11488_c0_g1_i1_6	3	37,5	12,487	22,053	PF03952.15	Enolase_N	163,1	3,20E-48	CL0227
ARUBRA_DN19442_c0_g1_i1_2	4	25,7	21,862	272,59					
ARUBRA_DN4301_c0_g1_i1_3	5	26,9	26,827	34,582	PF05564.11	Auxin_repressed	187,5	9,00E-56	No_clan
ARUBRA_DN16241_c0_g1_i1_5	2	9,7	32,015	11,671	PF05753.13	TRAP_beta	184,6	9,90E-55	CL0159
ARUBRA_DN6197_c0_g1_i1_1	1	12,9	9,5467	7,5631	PF01095.18	Pectinesterase	125,3	1,80E-36	CL0268
ARUBRA_DN5359_c0_g1_i1_3	9	21,2	72,652	54,842	PF01268.18	FTHFS	833,8	4,40E-251	CL0023
ARUBRA_DN20048_c0_g1_i1_1	1	21,5	8,3254	21,097	PF16363.4	GDP_Man_Dehyd	51,6	8,50E-14	CL0063
ARHOMBI_DN6095_c0_g2_i1_5	6	12,8	56,418	40,821	PF00226.30	DnaJ	79,1	1,80E-22	CL0392
ARUBRA_DN4711_c0_g2_i1_6	7	54,8	20,893	10,474	PF00022.18	Actin	201,9	1,10E-59	CL0108
ARUBRA_DN2566_c0_g2_i1_5	7	13,2	85,713	49,139	PF01326.18	PPDK_N	47,5	1,40E-12	CL0179
ARHOMBI_DN6176_c1_g1_i1_5	2	5,1	43,05	23,197	PF00141.22	peroxidase	270,7	9,80E-81	CL0617
ARUBRA_DN413_c0_g1_i1_3	1	8,2	9,7039	35,484					
ARUBRA_DN16443_c0_g1_i1_3	3	31,2	12,059	18,226	PF13838.5	Clathrin_H_link	73	1,30E-20	CL0020
ARHOMBI_DN15325_c0_g1_i1_4	2	11,2	26,47	12,959	PF06747.12	CHCH	27,6	2,10E-06	CL0351
ARHOMBI_DN5371_c0_g1_i1_2	2	16,5	24,572	16,64	PF02271.15	UCR_14kD	95,8	1,10E-27	No_clan
ARUBRA_DN4439_c0_g1_i1_3	3	14,7	23,629	13,774	PF01776.16	Ribosomal_L22e	156	3,50E-46	No_clan
ARHOMBI_DN24520_c0_g1_i1_6	1	15	8,8213	6,4672	PF00171.21	Aldedh	34,3	8,90E-09	CL0099
ARHOMBI_DN900_c0_g1_i1_2	5	24,6	48,212	32,779	PF00106.24	adh_short	92,5	2,10E-26	CL0063
ARUBRA_DN2910_c0_g1_i1_5	2	6,8	36,93	11,76	PF01248.25	Ribosomal_L7Ae	87,5	3,40E-25	CL0101
ARHOMBI_DN5383_c0_g1_i1_2	1	7	18,353	6,2213					
ARUBRA_DN1777_c0_g1_i1_3	1	10,7	13,556	6,6706	PF02672.14	CP12	29,5	8,40E-07	No_clan
ARHOMBI_DN4470_c0_g1_i1_6	6	26,4	32,328	39,531	PF00224.20	PK	173,9	3,90E-51	CL0151
ARUBRA_DN22163_c0_g1_i1_3	5	30,9	24,325	94,899	PF07992.13	Pyr_redox_2	30,7	1,70E-07	CL0063
ARHOMBI_DN13192_c0_g1_i1_2	3	41,3	11,413	16,151	PF00282.18	Pyridoxal_deC	79,4	1,90E-22	CL0061
ARHOMBI_DN54_c0_g1_i1_2	4	19,4	21,645	26,294	PF00012.19	HSP70	313,5	2,00E-93	CL0108

ARHOMBI_DN4900_c0_g1_i1_5	5	24,2	26,365	255,82	PF04398.11	DUF538	115,4	1,60E-33	No_clan
ARHOMBI_DN13072_c0_g1_i1_6	2	37,5	9,0194	33,411	PF00215.23	OMPdecase	85,6	3,40E-24	CL0036
ARUBRA_DN14237_c0_g1_i1_6	2	42,2	8,2377	11,384					
ARHOMBI_DN18431_c0_g1_i1_1	3	21,1	27,792	19,062	PF02779.23	Transket_pyr	204,2	1,10E-60	CL0254
ARUBRA_DN8433_c0_g1_i1_6	2	26,4	12,105	14,449	PF02545.13	Maf	51,7	8,00E-14	CL0269
ARHOMBI_DN19091_c0_g1_i1_5	4	19,8	28,447	127,4	PF01928.20	CYTH	77,1	1,40E-21	CL0273
ARUBRA_DN18317_c0_g1_i1_5	5	26,8	29,471	52,914	PF01323.19	DSBA	119,3	1,50E-34	CL0172
ARHOMBI_DN22440_c0_g1_i1_6	2	28,6	13,458	14,047	PF00069.24	Pkinase	57,2	1,40E-15	CL0016
ARHOMBI_DN8601_c0_g1_i1_4	3	23,5	18,29	36,818	PF05817.13	Ribophorin_II	154,1	5,00E-45	No_clan
ARHOMBI_DN25934_c0_g1_i1_3	6	38,9	19,991	29,815	PF00071.21	Ras	211,6	4,30E-63	CL0023
ARHOMBI_DN13008_c0_g1_i1_6	2	23,3	10,156	132,42	PF00179.25	UQ_con	60	1,70E-16	CL0208
ARUBRA_DN1845_c0_g1_i1_5	4	11,9	50,73	26,257	PF02629.18	CoA_binding	23,8	5,20E-05	CL0063
ARUBRA_DN4305_c0_g2_i1_6	6	13,9	56,864	39,173	PF00004.28	AAA	137,2	4,10E-40	CL0023
ARUBRA_DN13152_c0_g1_i1_3	2	35,2	9,6997	14,15					
ARUBRA_DN3999_c0_g1_i1_6	2	12	27,331	-2	PF02776.17	TPP_enzyme_N	41,6	9,00E-11	CL0254
ARUBRA_DN5726_c0_g1_i1_1	5	15,1	45,973	30,927	PF01756.18	ACOX	183	3,60E-54	CL0087
ARHOMBI_DN3987_c0_g1_i1_4	4	12,5	43,638	31,956	PF00627.30	UBA	34,5	1,30E-08	CL0214
ARHOMBI_DN9641_c0_g1_i1_3	5	22,1	29,777	29,716	PF00270.28	DEAD	171	1,80E-50	CL0023
ARUBRA_DN16264_c0_g1_i1_5	5	11,5	62,316	30,731	PF00676.19	E1_dh	271,7	5,30E-81	CL0254
ARHOMBI_DN15803_c0_g1_i1_2	2	10	29,856	7,089	PF04752.11	ChaC	140,9	4,00E-41	CL0278
ARUBRA_DN1574_c0_g2_i1_2	2	33,9	12,379	14,961					
ARHOMBI_DN1369_c0_g1_i1_5	1	4,9	21,215	65,035	PF00428.18	Ribosomal_60s	82,8	1,90E-23	No_clan
ARUBRA_DN8743_c0_g1_i1_3	2	29,5	9,8755	12,738					
ARHOMBI_DN1764_c0_g1_i1_5	4	11	52,226	24,016	PF00733.20	Asn_synthase	140,6	9,00E-41	CL0039
ARHOMBI_DN5253_c0_g2_i1_2	5	17,8	46,707	30,677	PF00316.19	FBPase	263,8	6,20E-79	CL0171
ARHOMBI_DN5557_c0_g1_i1_6	5	10,3	60,562	29,243	PF16363.4	GDP_Man_Dehyd	177	5,90E-52	CL0063
ARHOMBI_DN27310_c0_g1_i1_4	3	56,9	7,7525	43,696					
ARUBRA_DN99_c0_g1_i1_2	6	27,7	32,754	37,202	PF16191.4	E1_4HB	82,3	1,90E-23	No_clan
ARUBRA_DN3903_c0_g1_i1_1	8	20,9	69,201	55,538	PF00587.24	tRNA-synt_2b	64,9	8,10E-18	CL0040
ARUBRA_DN620_c0_g1_i1_5	1	11,2	14,549	7,5385	PF09298.10	FAA_hydrolase_N	121,5	1,50E-35	No_clan
ARUBRA_DN7726_c0_g1_i1_6	3	33,8	17,244	20,573	PF00483.22	NTP_transferase	76,5	2,20E-21	CL0110
ARHOMBI_DN12388_c0_g1_i1_3	3	36,4	15,395	28,011	PF00400.31	WD40	22,1	0,00019	CL0186
ARHOMBI_DN5442_c0_g1_i1_6	11	23,7	59,167	38,085	PF00270.28	DEAD	138,2	2,20E-40	CL0023

ARHOMBI_DN97_c0_g1_i1_1	4	26,3	24,18	106,36					
ARHOMBI_DN6380_c0_g1_i1_4	1	16,4	7,8938	6,4686					
ARUBRA_DN7925_c0_g1_i1_2	3	33,6	13,904	20,238					
ARHOMBI_DN4703_c0_g1_i1_3	5	21,4	42,678	34,293	PF00132.23	Hexapep	22,2	7,60E-05	CL0536
ARUBRA_DN2228_c0_g2_i1_2	5	25,3	38,882	35,626	PF00984.18	UDPG_MGDP_dh	110,5	3,10E-32	CL0106
ARUBRA_DN23264_c0_g1_i1_3	2	58,3	7,3703	18,538					
ARUBRA_DN22823_c0_g1_i1_2	6	22	33,482	323,31	PF00218.20	IGPS	253,2	1,90E-75	CL0036
ARHOMBI_DN3499_c0_g1_i1_2	5	9,2	80,152	34,603	PF01749.19	IBB	86,8	8,60E-25	CL0020
ARHOMBI_DN6537_c0_g1_i1_4	3	38,9	16,461	21,501	PF00637.19	Clathrin	77,3	9,70E-22	CL0020
ARUBRA_DN16598_c0_g1_i1_4	2	27,7	10,328	12,37	PF00626.21	Gelsolin	30,1	3,10E-07	CL0092
ARUBRA_DN3848_c0_g2_i1_1	3	11,3	36,94	19,151	PF00179.25	UQ_con	127,4	2,70E-37	CL0208
ARUBRA_DN16655_c0_g1_i1_1	4	16	43,455	27,57	PF13510.5	Fer2_4	67	1,10E-18	CL0486
ARHOMBI_DN2235_c0_g1_i1_5	6	21,3	37,176	181,48	PF00013.28	KH_1	51,8	5,00E-14	CL0007
ARUBRA_DN19778_c0_g1_i1_3	4	11,7	40,646	23,015	PF10151.8	TMEM214	54,5	6,60E-15	No_clan
ARUBRA_DN5666_c0_g1_i1_2	5	18,4	43,464	33,499	PF09440.9	eIF3_N	46,6	4,10E-12	No_clan
ARUBRA_DN5508_c0_g1_i1_2	3	16,1	29,053	45,034	PF00173.27	Cyt-b5	87,1	6,00E-25	No_clan
ARUBRA_DN3962_c0_g1_i1_6	4	10,1	43,425	26,292	PF00400.31	WD40	12,3	0,23	CL0186
ARUBRA_DN20257_c0_g1_i1_3	3	37,7	11,988	15,196	PF01263.19	Aldose_epim	70,4	1,40E-19	CL0103
ARUBRA_DN11024_c0_g1_i1_6	3	52,3	11,851	106,34	PF05822.11	UMPH-1	89,5	2,20E-25	CL0137
ARUBRA_DN21569_c0_g1_i1_4	3	9,4	48,848	19,713	PF01398.20	JAB	110,4	4,40E-32	CL0366
ARUBRA_DN965_c0_g1_i1_3	2	23,4	12,265	7,8947	PF00349.20	Hexokinase_1	115,2	3,50E-33	CL0108
ARHOMBI_DN27321_c0_g1_i1_2	4	55,1	11,267	32,034					
ARUBRA_DN1379_c0_g2_i1_4	3	9,5	56,571	20,429	PF00282.18	Pyridoxal_deC	72,6	2,20E-20	CL0061
ARUBRA_DN21229_c0_g1_i1_6	2	17	18,325	11,9	PF04597.13	Ribophorin_I	114,2	7,90E-33	No_clan
ARUBRA_DN16619_c0_g1_i1_3	4	13,8	35,744	25,599	PF00294.23	PfkB	253,4	2,80E-75	CL0118
ARHOMBI_DN17281_c0_g1_i1_1	3	46,7	9,9854	20,871	PF13848.5	Thioredoxin_6	28,8	9,80E-07	CL0172
ARHOMBI_DN4623_c0_g1_i1_3	5	26	21,686	32,753					
ARUBRA_DN6168_c0_g1_i1_1	2	21,2	11,573	12,075	PF07944.11	Glyco_hydro_127	77,4	7,70E-22	CL0059
ARHOMBI_DN24755_c0_g1_i1_2	1	9,7	9,6641	6,5751	PF00330.19	Aconitase	119,8	1,40E-34	No_clan
ARUBRA_DN4123_c0_g1_i1_5	6	21,4	52,362	37,91	PF02403.21	Seryl_tRNA_N	67,2	1,20E-18	CL0298
ARUBRA_DN9_c0_g1_i1_4	2	6,9	41,65	12,603	PF03141.15	Methyltransf_29	382,9	2,00E-114	CL0063
ARHOMBI_DN6166_c0_g1_i1_6	7	11,4	80,836	41,72	PF00587.24	tRNA-synt_2b	39,1	6,70E-10	CL0040

ARUBRA_DN1535_c0_g1_i1_5	1	4,6	26,147	6,5532	PF00343.19	Phosphorylase	235	1,50E-69	CL0113
ARUBRA_DN17285_c0_g1_i1_2	3	34,1	18,249	24,232	PF16189.4	Creatinase_N_2	128,6	2,10E-37	CL0356
ARHOMBI_DN20415_c0_g1_i1_5	2	24,7	10,169	17,24					
ARHOMBI_DN6137_c0_g1_i1_4	8	11	116,17	51,111	PF02861.19	Clp_N	62,4	3,00E-17	No_clan
ARUBRA_DN20044_c0_g1_i1_6	2	33	10,908	15,463	PF00118.23	Cpn60_TCP1	80,8	7,50E-23	No_clan
ARUBRA_DN20625_c0_g1_i1_2	5	47,2	13,637	278,57	PF00977.20	His_biosynth	54,7	8,80E-15	CL0036
ARUBRA_DN21250_c0_g1_i1_6	3	33,3	9,2003	12,099	PF02518.25	HATPase_c	34,3	2,60E-08	CL0025
ARUBRA_DN4028_c0_g1_i2_4	3	16,1	27,868	12,578	PF01201.21	Ribosomal_S8e	192,7	2,60E-57	No_clan
ARUBRA_DN12697_c0_g1_i1_5	2	36,1	7,8577	12,813	PF00675.19	Peptidase_M16	74,2	9,80E-21	CL0094
ARUBRA_DN17667_c0_g1_i1_4	2	9,8	26,161	12,433					
ARHOMBI_DN16026_c0_g1_i1_1	6	15,8	51,25	34,403					
ARUBRA_DN16494_c0_g1_i1_3	4	22,6	27,546	24,604	PF00118.23	Cpn60_TCP1	211,5	1,80E-62	No_clan
ARUBRA_DN6330_c0_g1_i1_4	5	11,8	62,363	29,6	PF01979.19	Amidohydro_1	100,6	9,80E-29	CL0034
ARUBRA_DN13172_c0_g1_i1_1	1	5,4	16,774	17,8	PF00924.17	MS_channel	24,8	1,20E-05	No_clan
ARHOMBI_DN6108_c0_g1_i2_2	2	29,2	11,46	8,6131					
ARUBRA_DN20543_c0_g1_i1_1	4	34,2	17,514	36,914	PF00722.20	Glyco_hydro_16	112	2,00E-32	CL0004
ARUBRA_DN3626_c0_g2_i1_5	6	23,9	38,802	206,96	PF00627.30	UBA	55,2	4,10E-15	CL0214
ARHOMBI_DN3946_c0_g1_i1_1	4	12,8	41,386	25,871	PF05755.11	REF	317,9	2,80E-95	No_clan
ARUBRA_DN17212_c0_g1_i1_1	3	25,1	19,346	19,606	PF02770.18	Acyl-CoA_dh_M	47,3	1,70E-12	No_clan
ARHOMBI_DN1738_c0_g2_i1_2	4	38,3	13,735	93,511					
ARUBRA_DN4695_c0_g1_i1_1	1	4,8	30,724	6,3665					
ARUBRA_DN6843_c0_g1_i1_2	5	11,2	65,388	29,657	PF00171.21	Aldedh	575,6	5,70E-173	CL0099
ARHOMBI_DN565_c0_g1_i1_1	1	8,4	11,099	6,5463	PF02826.18	2-Hacid_dh_C	27,2	2,00E-06	CL0063
ARUBRA_DN12655_c0_g1_i1_2	3	21,4	15,64	18,352					
ARHOMBI_DN7486_c0_g1_i1_4	1	6,8	16,408	6,1653					
ARHOMBI_DN3745_c0_g1_i1_6	2	20,2	13,843	33,613					
ARHOMBI_DN161_c0_g2_i1_2	6	26,3	39,079	39,22	PF10075.8	CSN8_PSD8_EIF3K	89,1	2,40E-25	CL0123
ARHOMBI_DN4381_c0_g1_i1_4	3	12,2	26,839	21,148	PF09066.9	B2-adapt-app_C	108,1	2,30E-31	CL0545
ARUBRA_DN4254_c0_g2_i1_1	5	22,7	43,236	141,1	PF00270.28	DEAD	132,6	1,20E-38	CL0023
ARUBRA_DN4783_c0_g1_i1_3	3	10,1	44,797	18,828	PF00155.20	Aminotran_1_2	128,1	4,20E-37	CL0061
ARHOMBI_DN4848_c0_g1_i1_6	6	19,8	40,991	40,275	PF00227.25	Proteasome	163	5,00E-48	CL0052
ARHOMBI_DN16223_c0_g1_i1_5	3	19,6	24,372	21,791	PF00675.19	Peptidase_M16	118	3,10E-34	CL0094

ARHOMBI_DN19081_c0_g1_i1_3	3	42,5	12,592	18,237	PF00343.19	Phosphorylase	106,7	9,50E-31	CL0113
ARUBRA_DN24202_c0_g1_i1_3	2	14	15,138	31,535	PF01928.20	CYTH	33,4	3,80E-08	CL0273
ARUBRA_DN3211_c0_g1_i1_4	2	7	25,618	101,66	PF00505.18	HMG_box	79,7	1,50E-22	CL0114
ARUBRA_DN20320_c0_g1_i1_4	4	19,3	30,042	25,507	PF13561.5	adh_short_C2	134,7	3,30E-39	CL0063
ARUBRA_DN4936_c0_g2_i1_2	4	23,3	30,64	7,2864	PF03931.14	Skp1_POZ	106,6	4,80E-31	CL0033
ARUBRA_DN9672_c0_g1_i1_4	2	14,2	22,372	8,167	PF03030.15	H_PPase	82,7	2,20E-23	No_clan
ARUBRA_DN19765_c0_g1_i1_2	2	9,1	27,73	14,71	PF04979.13	IPP-2	95,4	3,90E-27	No_clan
ARUBRA_DN3204_c0_g2_i1_1	4	19,4	23,652	24,149	PF13774.5	Longin	54,7	7,20E-15	No_clan
ARUBRA_DN3663_c0_g1_i1_5	5	16,5	37,839	29,233	PF00118.23	Cpn60_TCP1	293,4	2,60E-87	No_clan
ARHOMBI_DN23207_c0_g1_i1_1	1	6,1	16,02	15,938					
ARHOMBI_DN10568_c0_g1_i1_2	3	12,4	42,349	20,757	PF00118.23	Cpn60_TCP1	275,9	5,40E-82	No_clan
ARUBRA_DN26415_c0_g1_i1_1	2	26,1	10,609	12,511	PF01918.20	Alba	46,6	2,10E-12	CL0441
ARHOMBI_DN4088_c0_g1_i1_3	6	14,9	54,48	41,777	PF01571.20	GCV_T	293,3	1,40E-87	CL0289
ARHOMBI_DN5585_c0_g1_i1_3	8	25	59,652	109,32	PF00790.18	VHS	90,3	9,40E-26	CL0009
ARHOMBI_DN14389_c0_g1_i1_3	3	35,2	10,247	17,94	PF00311.16	PEPcase	132,1	1,80E-38	CL0151
ARUBRA_DN11036_c0_g1_i1_1	3	24	18,207	86,269	PF07992.13	Pyr_redox_2	68,4	5,70E-19	CL0063
ARHOMBI_DN6168_c0_g1_i1_4	5	6,5	87,454	28,302	PF03219.13	TLC	655,6	4,20E-197	CL0015
ARHOMBI_DN1051_c0_g1_i1_2	2	20,7	17,658	18,1	PF00080.19	Sod_Cu	100,7	7,30E-29	No_clan
ARHOMBI_DN4618_c0_g1_i1_5	1	4,4	30,634	17,938	PF00255.18	GSHPx	140	1,70E-41	CL0172
ARUBRA_DN5779_c0_g1_i1_6	5	23,6	38,481	13,38	PF14290.5	DUF4370	390,9	2,30E-117	No_clan
ARHOMBI_DN11483_c0_g1_i1_6	1	8,7	21,087	9,5529	PF08498.9	Sterol_MT_C	115	1,30E-33	No_clan
ARHOMBI_DN15111_c0_g1_i1_2	4	24,7	29,131	26,473	PF00956.17	NAP	196,3	4,80E-58	No_clan
ARUBRA_DN343_c0_g2_i1_5	1	7,5	22,088	6,4253	PF00428.18	Ribosomal_60s	90,5	7,40E-26	No_clan
ARHOMBI_DN12998_c0_g1_i1_2	3	43,8	8,4186	18,055	PF00400.31	WD40	13,3	0,11	CL0186
ARHOMBI_DN1655_c0_g1_i1_1	8	18	63,654	145,52	PF00275.19	EPSP_synthase	483,4	4,60E-145	CL0290
ARUBRA_DN8461_c0_g1_i1_4	2	12,7	22,871	13,63	PF04398.11	DUF538	111,7	2,20E-32	No_clan
ARHOMBI_DN17992_c0_g1_i1_1	4	15,2	43,231	33,839	PF03141.15	Methyltransf_29	355,6	3,70E-106	CL0063
ARUBRA_DN796_c0_g1_i1_5	5	22,4	31,831	30,027					
ARHOMBI_DN11775_c0_g1_i1_1	2	22,6	11,121	12,693					

ARUBRA_DN3727_c0_g1_i1_4	2	17,1	12,926	107,48	PF13774.5	Longin	76,6	1,00E-21	No_clan
ARUBRA_DN7635_c0_g1_i1_4	7	18,1	55,815	44,323	PF00342.18	PGI	157,3	4,60E-46	CL0067
ARHOMBI_DN17384_c0_g1_i1_1	4	17,6	36,601	27,513	PF13774.5	Longin	84	5,30E-24	No_clan
ARHOMBI_DN8440_c0_g1_i1_5	5	30	33,177	36,441	PF02127.14	Peptidase_M18	316,1	3,20E-94	CL0035
ARHOMBI_DN4904_c0_g1_i1_1	3	11	35,448	13,034	PF00071.21	Ras	203,6	1,30E-60	CL0023
ARUBRA_DN24171_c0_g1_i1_6	1	37,3	8,3212	13,44	PF10585.8	UBA_e1_thiolCys	50,9	1,80E-13	No_clan
ARHOMBI_DN15505_c0_g1_i1_1	1	15,2	11,368	22,093	PF00083.23	Sugar_tr	80,3	1,20E-22	CL0015
ARUBRA_DN19884_c0_g1_i1_4	2	10,5	29,93	43,567	PF12796.6	Ank_2	35	1,50E-08	CL0465
ARHOMBI_DN2480_c0_g1_i1_6	5	26,3	27,748	51,935	PF14622.5	Ribonucleas_3_3	42	9,00E-11	CL0539
ARHOMBI_DN5911_c0_g2_i1_1	5	9,8	70,017	33,862	PF01474.15	DAHP_synth_2	651,4	4,90E-196	CL0036
ARHOMBI_DN11895_c0_g1_i1_5	1	14,4	9,5969	193,62					
ARHOMBI_DN10040_c0_g1_i1_3	2	12,4	23,537	12,847					
ARHOMBI_DN20237_c0_g1_i1_3	3	13,3	51,954	29,411	PF05602.11	CLPTM1	448,6	2,30E-134	No_clan
ARHOMBI_DN13255_c0_g1_i1_6	2	26	8,3045	11,281					
ARUBRA_DN1076_c0_g1_i1_4	4	11,6	47,362	323,31	PF00581.19	Rhodanese	52,9	4,10E-14	CL0031
ARHOMBI_DN7071_c0_g1_i1_2	2	9,1	30,863	63,238	PF00085.19	Thioredoxin	61,3	6,60E-17	CL0172
ARUBRA_DN13122_c0_g1_i1_4	1	15,7	12,184	6,2918					
ARHOMBI_DN1703_c0_g1_i1_6	3	15	39,453	24,566	PF01398.20	JAB	73,8	1,00E-20	CL0366
ARUBRA_DN8641_c0_g1_i1_4	3	20,6	14,395	17,428	PF04718.14	ATP-synt_G	79,8	1,90E-22	No_clan
ARUBRA_DN2071_c0_g3_i1_4	4	24,9	20,824	16,855	PF01778.16	Ribosomal_L28e	116,6	8,70E-34	No_clan
ARUBRA_DN24590_c0_g1_i1_2	3	67,9	7,5189	176,7					
ARUBRA_DN9637_c0_g1_i1_6	1	15,9	7,2531	6,9515					
ARUBRA_DN12612_c0_g1_i1_4	1	13	12,065	12,684	PF00160.20	Pro_isomerase	128,8	2,00E-37	CL0475
ARHOMBI_DN3999_c0_g1_i1_1	7	16,3	79,747	43,27	PF00350.22	Dynamin_N	187,9	1,30E-55	CL0023
ARHOMBI_DN5284_c0_g1_i1_4	2	24,3	19,284	18,146	PF02782.15	FGGY_C	100,4	9,80E-29	CL0108
ARUBRA_DN7275_c0_g1_i1_1	3	28	15,99	18,783	PF00171.21	Aldedh	145,6	1,50E-42	CL0099
ARHOMBI_DN3047_c0_g1_i1_6	3	7,5	68,871	19,311	PF00202.20	Aminotran_3	224,4	1,70E-66	CL0061
ARUBRA_DN12194_c0_g1_i1_6	4	26,9	26,79	17,004	PF01602.19	Adaptin_N	88,6	3,20E-25	CL0020
ARHOMBI_DN20434_c0_g1_i1_2	2	13,5	28,828	13,429	PF01429.18	MBD	48,3	5,70E-13	CL0081
ARHOMBI_DN3438_c0_g1_i1_6	9	26,8	51,562	57,142	PF00291.24	PALP	222,3	8,20E-66	No_clan
ARHOMBI_DN4924_c0_g1_i1_5	5	32,6	19,863	14,007	PF00071.21	Ras	102,1	2,20E-29	CL0023

ARUBRA_DN11906_c0_g1_i1_6	2	23,1	11,987	12,298	PF01756.18	ACOX	25,4	8,30E-06	CL0087
ARUBRA_DN21459_c0_g1_i1_4	2	21,5	13,312	19,962	PF01370.20	Epimerase	43,9	1,70E-11	CL0063
ARUBRA_DN23079_c0_g1_i1_1	2	19,5	13,468	6,9225	PF00022.18	Actin	134,7	3,00E-39	CL0108
ARUBRA_DN15741_c0_g1_i1_6	2	35,8	10,057	323,31	PF01182.19	Glucosamine_iso	108,7	3,50E-31	CL0246
ARHOMBI_DN3883_c0_g1_i1_5	6	26,4	41,795	36,99	PF03446.14	NAD_binding_2	157,1	3,80E-46	CL0063
ARUBRA_DN4014_c0_g2_i1_3	3	36,2	8,7079	13,538	PF00248.20	Aldo_ket_red	48,7	5,40E-13	No_clan
ARUBRA_DN4532_c0_g1_i1_4	7	12,7	89,112	46,145	PF13589.5	HATPase_c_3	39,8	3,40E-10	CL0025
ARUBRA_DN7957_c0_g1_i1_1	4	18,8	40,697	28,605	PF06026.13	Rib_5-P_isom_A	207,6	8,80E-62	CL0246
ARHOMBI_DN22787_c0_g1_i1_4	3	7,9	33,686	17,896	PF02806.17	Alpha-amylase_C	95,6	1,70E-27	CL0369
ARUBRA_DN18867_c0_g1_i1_5	5	22,3	40,623	44,331	PF00400.31	WD40	16,3	0,012	CL0186
ARHOMBI_DN17883_c0_g1_i1_2	3	23,2	22,465	20,183	PF16114.4	Citrate_bind	271,7	1,90E-81	CL0506
ARHOMBI_DN14524_c0_g1_i1_1	3	50,6	9,8551	18,437	PF00076.21	RRM_1	64,1	7,40E-18	CL0221
ARUBRA_DN2441_c0_g1_i1_2	1	4,1	31,983	6,7146	PF13664.5	DUF4149	100	7,10E-29	CL0430
ARUBRA_DN25648_c0_g1_i1_1	1	13,3	7,8548	7,2342	PF00389.29	2-Hacid_dh	81,4	4,10E-23	CL0325
ARUBRA_DN4730_c0_g1_i1_2	3	17	23,641	48,006	PF01370.20	Epimerase	28,8	7,40E-07	CL0063
ARUBRA_DN4181_c0_g1_i1_5	2	8,9	31,249	11,192	PF00237.18	Ribosomal_L22	134,2	1,60E-39	No_clan
ARHOMBI_DN26738_c0_g1_i1_4	3	27,8	10,073	17,98	PF02990.15	EMP70	29,7	2,50E-07	No_clan
ARUBRA_DN5147_c0_g1_i1_4	2	45,7	8,6504	14,634					
ARHOMBI_DN5499_c0_g1_i1_3	3	6,6	69,354	18,225	PF00781.23	DAGK_cat	83,7	7,00E-24	CL0240
ARUBRA_DN8113_c0_g1_i1_3	4	22,2	20,438	24,143	PF00626.21	Gelsolin	64,1	7,50E-18	CL0092
ARHOMBI_DN1623_c0_g1_i1_6	5	18,4	50,364	31,362	PF00118.23	Cpn60_TCP1	366,3	2,00E-109	No_clan
ARUBRA_DN4329_c0_g1_i1_6	2	7,9	54,885	13,595	PF02167.14	Cytochrom_C1	324,2	3,80E-97	CL0318
ARUBRA_DN4117_c0_g1_i1_6	2	9,1	28,428	6,6575	PF03939.12	Ribosomal_L23eN	67,1	1,10E-18	No_clan
ARUBRA_DN18085_c0_g1_i1_1	2	18,6	10,835	11,085					
ARUBRA_DN5456_c0_g1_i1_2	4	10,5	63,501	42,477	PF13905.5	Thioredoxin_8	92,9	1,10E-26	CL0172
ARHOMBI_DN23974_c0_g1_i1_1	1	12	10,409	6,8858					
ARHOMBI_DN3770_c0_g1_i1_1	5	12,5	55,488	13,121	PF00330.19	Aconitase	47,7	1,00E-12	No_clan
ARUBRA_DN4031_c0_g1_i1_2	1	12,4	11,169	33,818	PF01204.17	Trehalase	106,5	1,40E-30	CL0059
ARUBRA_DN4198_c0_g2_i2_4	2	11,7	27,026	13,57	PF01789.15	PsbP	135,7	1,30E-39	CL0619
ARHOMBI_DN16331_c0_g1_i1_2	4	24,6	21,769	23,79					
ARHOMBI_DN8849_c0_g1_i1_2	3	37,9	14,184	18,729	PF00742.18	Homoserine_dh	71,1	9,40E-20	No_clan
ARUBRA_DN6372_c0_g1_i1_2	2	12,6	17,716	6,6693					

ARUBRA_DN16718_c0_g1_i1_3	1	16,5	8,4125	6,6754	PF00005.26	ABC_tran	32,1	1,30E-07	CL0023
ARHOMBI_DN10686_c0_g1_i1_3	2	19	16,091	323,31	PF00013.28	KH_1	45,2	5,70E-12	CL0007
ARUBRA_DN8773_c0_g1_i1_4	2	21,2	18,108	12,353					
ARUBRA_DN1981_c0_g1_i1_6	2	8	24,313	10,888	PF00725.21	3HCDH	25	2,10E-05	CL0106
ARHOMBI_DN6947_c0_g1_i1_1	2	38,7	12,807	13,767	PF02801.21	Ketoacyl-synt_C	58,9	4,20E-16	CL0046
ARHOMBI_DN4632_c0_g1_i1_3	3	13,7	40,744	21,19	PF01293.19	PEPCK_ATP	34,1	1,10E-08	CL0374
ARHOMBI_DN14482_c0_g1_i1_6	1	21,1	7,5838	6,5475					
ARHOMBI_DN3429_c0_g1_i1_6	5	13,1	52,948	32,668	PF05879.11	RHD3	324,9	8,70E-97	CL0023
ARHOMBI_DN3622_c0_g1_i1_4	4	9,9	59,821	23,985	PF02776.17	TPP_enzyme_N	73,4	1,50E-20	CL0254
ARUBRA_DN4615_c0_g2_i1_3	1	9,2	16,315	6,2303					
ARHOMBI_DN17829_c0_g1_i1_1	4	17,5	30,894	24,702	PF03224.13	V-ATPase_H_N	183	7,70E-54	CL0020
ARUBRA_DN6205_c0_g1_i1_1	2	27,4	15,355	13,094	PF03223.14	V-ATPase_C	122,4	2,70E-35	No_clan
ARUBRA_DN24096_c0_g1_i1_3	2	13,6	12,258	11,361					
ARUBRA_DN1065_c0_g2_i1_2	4	24,8	27,539	25,31	PF03949.14	Malic_M	267,6	8,40E-80	CL0063
ARHOMBI_DN12564_c0_g1_i1_6	4	36,1	14,729	25,541	PF00579.24	tRNA-synt_1b	41,8	7,20E-11	CL0039
ARHOMBI_DN3278_c0_g1_i1_3	6	24,3	31,517	37,561	PF01253.21	SUI1	71,7	5,00E-20	No_clan
ARUBRA_DN16058_c0_g1_i1_4	4	61,1	10,117	25,629	PF00565.16	SNase	28,3	1,70E-06	CL0049
ARUBRA_DN9760_c0_g1_i1_3	3	20	16,834	17,415	PF01399.26	PCI	34,6	2,00E-08	CL0123
ARHOMBI_DN6246_c0_g1_i3_3	3	20,9	25,098	20,945	PF00182.18	Glyco_hydro_19	365,6	1,20E-109	CL0037
ARHOMBI_DN3643_c0_g1_i1_2	2	18,8	12,246	15,31					
ARUBRA_DN18439_c0_g1_i1_3	4	11,9	56,817	27,208	PF00169.28	PH	43,9	2,60E-11	CL0266
ARUBRA_DN4784_c0_g2_i3_2	4	22,1	33,141	26,829	PF00227.25	Proteasome	108,4	2,90E-31	CL0052
ARHOMBI_DN16305_c0_g1_i1_3	1	31	7,9648	12,761					
ARUBRA_DN1937_c0_g2_i1_6	3	6,6	65,508	19,189	PF01399.26	PCI	72,8	2,50E-20	CL0123
ARHOMBI_DN3129_c0_g1_i1_2	1	8,8	11,18	8,7348	PF01990.16	ATP-synt_F	61,1	8,90E-17	No_clan
ARUBRA_DN1180_c0_g1_i1_3	5	10,7	70,352	31,229	PF10255.8	Paf67	500,8	2,70E-150	CL0020
ARHOMBI_DN24079_c0_g1_i1_2	4	35,7	13,828	59,371	PF00218.20	IGPS	70,1	1,40E-19	CL0036
ARHOMBI_DN17905_c0_g1_i1_4	4	29,9	17,303	23,133	PF00071.21	Ras	58,1	7,20E-16	CL0023
ARHOMBI_DN13275_c0_g1_i1_1	3	29,6	18,382	15,072	PF06957.10	COPI_C	143	1,00E-41	CL0020
ARHOMBI_DN17238_c0_g1_i1_3	3	41,3	13,839	29,125	PF07944.11	Glyco_hydro_127	81	6,20E-23	CL0059
ARHOMBI_DN6259_c0_g2_i7_3	2	13,6	16,71	12,769	PF02798.19	GST_N	69	3,00E-19	CL0172

ARHOMBI_DN4135_c0_g2_i1_5	3	16,5	24,938	53,231	PF02943.14	FeThRed_B	137	1,90E-40	No_clan
ARUBRA_DN4552_c1_g2_i1_5	6	42,5	21,008	12,683	PF00025.20	Arf	244,7	3,40E-73	CL0023
ARHOMBI_DN6298_c0_g1_i1_1	1	12,4	10,604	6,4577	PF00343.19	Phosphorylase	132,4	1,70E-38	CL0113
ARHOMBI_DN2163_c0_g1_i1_5	5	19,9	40,956	34,45	PF03141.15	Methyltransf_29	427,6	5,50E-128	CL0063
ARHOMBI_DN6274_c0_g2_i10_6	2	7,3	34,412	62,376	PF00314.16	Thaumatin	261,3	6,70E-78	CL0293
ARUBRA_DN6417_c0_g1_i1_1	1	27,7	9,5659	7,4626	PF10585.8	UBA_e1_thiolCys	110,7	1,00E-31	No_clan
ARUBRA_DN16375_c0_g1_i1_3	2	8,4	34,831	13,06	PF07986.11	TBCC	62,3	3,20E-17	CL0391
ARUBRA_DN20085_c0_g1_i1_4	3	43,8	12,424	20,633					
ARHOMBI_DN7053_c0_g1_i1_6	4	47	11,442	30,457					
ARHOMBI_DN4215_c0_g1_i1_6	3	8,8	47,803	17,733	PF13432.5	TPR_16	27,6	3,10E-06	CL0020
ARUBRA_DN6101_c0_g1_i1_3	3	8,3	53,861	20,162	PF02990.15	EMP70	422,3	2,40E-126	No_clan
ARHOMBI_DN5908_c0_g1_i1_6	6	13,7	56,907	38,842	PF01761.19	DHQ_synthase	355,5	1,30E-106	CL0224
ARHOMBI_DN12316_c0_g1_i1_3	2	27,9	9,4137	11,912	PF00012.19	HSP70	27,4	8,50E-07	CL0108
ARHOMBI_DN1573_c0_g2_i1_5	2	14,2	18,794	12	PF04756.12	OST3_OST6	120,2	1,00E-34	CL0172
ARUBRA_DN3281_c0_g1_i1_4	3	20,7	27,258	20,86	PF00241.19	Cofilin_ADF	125,3	1,40E-36	CL0092
ARHOMBI_DN5746_c0_g1_i1_4	2	7,8	25,916	11,381	PF01157.17	Ribosomal_L21e	147	1,10E-43	CL0107
ARUBRA_DN17629_c0_g1_i1_1	2	42,4	9,2651	13,704					
ARHOMBI_DN1692_c0_g1_i1_5	5	14,8	49,836	24,94	PF00004.28	AAA	143,4	4,80E-42	CL0023
ARUBRA_DN15157_c0_g1_i1_2	2	30,4	8,5838	40,901					
ARHOMBI_DN17586_c0_g1_i1_5	3	9,8	56,262	20,032	PF00291.24	PALP	162,7	1,10E-47	No_clan
ARUBRA_DN16576_c0_g1_i1_6	1	29,9	7,5443	18,105					
ARHOMBI_DN12404_c0_g1_i1_3	3	26,6	15,663	19,735	PF04053.13	Coatomer_WDAD	152,4	1,90E-44	CL0186
ARHOMBI_DN5690_c0_g1_i1_6	1	6	31,522	12,588	PF00179.25	UQ_con	175,1	5,30E-52	CL0208
ARHOMBI_DN14107_c0_g1_i1_6	3	67,4	9,0923	7,4681	PF02800.19	Gp_dh_C	100,4	6,70E-29	CL0139
ARUBRA_DN21696_c0_g1_i1_3	1	7,6	18,739	6,6917	PF07859.12	Abhydrolase_3	91,4	6,40E-26	CL0028
ARUBRA_DN12039_c0_g1_i1_4	3	31,8	16,746	18,428	PF13460.5	NAD_binding_10	42,5	6,20E-11	CL0063
ARHOMBI_DN17617_c0_g1_i1_1	3	24,7	18,09	19,472	PF00004.28	AAA	126,9	6,10E-37	CL0023
ARUBRA_DN25457_c0_g1_i1_2	1	21,4	7,5285	6,4573					
ARUBRA_DN9520_c0_g1_i1_3	3	19,2	30,044	19,423	PF00587.24	tRNA-synt_2b	38,5	1,10E-09	CL0040
ARUBRA_DN12747_c0_g1_i1_4	1	15,6	8,7158	12,533	PF08267.11	Meth_synt_1	112	3,60E-32	CL0160

ARHOMBI_DN27277_c0_g1_i1_1	2	39,1	7,5622	15,071					
ARUBRA_DN21434_c0_g1_i1_3	3	24,5	15,623	6,5301	PF00012.19	HSP70	122	1,90E-35	CL0108
ARUBRA_DN4990_c0_g1_i1_1	4	21,2	30,203	26,978	PF00314.16	Thaumatin	213,7	2,40E-63	CL0293
ARHOMBI_DN18290_c0_g1_i1_4	4	22,4	20,579	86,968					
ARUBRA_DN8515_c0_g1_i1_2	2	15,5	17,972	12,836	PF00106.24	adh_short	115,9	1,40E-33	CL0063
ARUBRA_DN7009_c0_g1_i1_3	2	6,4	55,665	13,288	PF02779.23	Transket_pyr	158	1,70E-46	CL0254
ARUBRA_DN16706_c0_g1_i1_4	1	15,6	10,087	6,9079	PF08544.12	GHMP_kinases_C	23,1	6,50E-05	No_clan
ARUBRA_DN8627_c0_g1_i1_5	2	10,8	28,612	12,825	PF04573.11	SPC22	179,7	2,90E-53	No_clan
ARUBRA_DN19094_c0_g1_i1_2	2	9,9	24,337	12,302	PF01918.20	Alba	46,3	2,60E-12	CL0441
ARUBRA_DN4464_c0_g2_i1_2	6	26,9	28,382	38,292	PF00749.20	tRNA-synt_1c	36,6	2,20E-09	CL0039
ARUBRA_DN19978_c0_g1_i1_6	2	14,2	25,017	13,306	PF02516.13	STT3	82,9	2,20E-23	CL0111
ARHOMBI_DN26182_c0_g1_i1_3	1	19	9,5445	7,1576					
ARUBRA_DN5518_c0_g1_i1_3	3	27,3	14,662	19,704					
ARHOMBI_DN6030_c1_g5_i1_6	13	32,7	45,14	6,3822	PF08240.11	ADH_N	37,5	1,60E-09	CL0296
ARHOMBI_DN15479_c0_g1_i1_2	2	4,8	44,321	11,615					
ARHOMBI_DN21367_c0_g1_i1_4	2	30,2	15,46	17,445	PF00180.19	Iso_dh	109,7	1,50E-31	CL0270
ARUBRA_DN9892_c0_g1_i1_6	1	6,7	30,931	10,675	PF00005.26	ABC_tran	56,6	3,50E-15	CL0023
ARHOMBI_DN8750_c0_g1_i1_3	1	24	8,3094	7,3608	PF01321.17	Creatinase_N	35,2	1,60E-08	CL0356
ARHOMBI_DN13150_c0_g1_i1_1	2	24	10,406	32,582	PF00248.20	Aldo_ket_red	30,4	1,90E-07	No_clan
ARHOMBI_DN3473_c0_g1_i1_4	1	5	25,249	6,2247					
ARUBRA_DN22076_c0_g1_i1_2	4	17,4	32,587	26,308					
ARUBRA_DN11215_c0_g1_i1_3	2	33,6	13,458	20,14	PF16078.4	2-oxogl_dehyd_N	49,3	2,40E-13	No_clan
ARHOMBI_DN1047_c0_g1_i1_6	2	11,2	27,889	12,444	PF00085.19	Thioredoxin	49,9	2,20E-13	CL0172
ARUBRA_DN1728_c0_g1_i1_2	2	37,2	11,981	21,866					
ARHOMBI_DN5812_c1_g3_i1_1	3	17,7	26,353	244,67	PF02020.17	W2	81,4	3,50E-23	CL0020
ARUBRA_DN17307_c0_g1_i1_2	2	23,5	13,259	12,832					
ARHOMBI_DN4645_c1_g1_i1_2	3	15,6	20,475	11,52	PF01433.19	Peptidase_M1	124,5	4,10E-36	CL0126
ARUBRA_DN8669_c0_g1_i1_4	4	23,7	23,811	23,22					
ARUBRA_DN5513_c0_g1_i1_1	3	28,5	16,413	20,758					
ARUBRA_DN4813_c0_g1_i1_1	6	13,8	69,749	39,306	PF00109.25	ketoacyl-synt	203,1	5,00E-60	CL0046
ARUBRA_DN10983_c0_g1_i1_4	2	20,9	14,135	14,461	PF03144.24	GTP_EFTU_D2	66,8	1,50E-18	CL0575
ARUBRA_DN4671_c1_g1_i1_5	11	22,3	60,896	31,171	PF00012.19	HSP70	581,7	1,20E-174	CL0108

ARUBRA_DN5698_c0_g1_i1_2	2	8,5	39,894	12,07	PF00970.23	FAD_binding_6	86,2	1,50E-24	CL0076
ARUBRA_DN8516_c0_g1_i1_2	3	18,1	28,715	21,15	PF00206.19	Lyase_1	215,7	9,40E-64	No_clan
ARHOMBI_DN3145_c0_g1_i1_3	2	3,5	62,899	11,937	PF01565.22	FAD_binding_4	55,5	4,40E-15	CL0077
ARUBRA_DN26369_c0_g1_i1_1	3	57,8	11,612	8,7748	PF02874.22	ATP-synt_ab_N	55,9	4,30E-15	CL0275
ARUBRA_DN16851_c0_g1_i1_2	2	9,5	22,175	13,38	PF01477.22	PLAT	47,9	1,60E-12	CL0321
ARHOMBI_DN22852_c0_g1_i1_6	1	13,8	12,28	7,5985	PF00311.16	PEPcase	156,2	9,10E-46	CL0151
ARHOMBI_DN25003_c0_g1_i1_6	2	25,4	12,753	12,512	PF01433.19	Peptidase_M1	28,9	6,20E-07	CL0126
ARUBRA_DN17081_c0_g1_i1_5	1	6,2	27,951	7,8819					
ARHOMBI_DN4475_c0_g1_i1_1	6	21	39,842	70,433					
ARUBRA_DN6562_c0_g1_i1_2	1	28,4	7,012	7,7009					
ARUBRA_DN9315_c0_g1_i1_1	2	30,7	8,4084	13,647	PF00012.19	HSP70	42,7	2,00E-11	CL0108
ARUBRA_DN5821_c0_g1_i1_4	4	58,9	9,7211	26,817	PF01063.18	Aminotran_4	36,7	3,70E-09	No_clan
ARHOMBI_DN15559_c0_g1_i1_1	3	18,6	17,605	17,713	PF00656.21	Peptidase_C14	176,4	9,10E-52	CL0093
ARHOMBI_DN3769_c0_g1_i1_4	6	36	23,933	37,885	PF01451.20	LMWPc	135,9	1,20E-39	CL0031
ARUBRA_DN6679_c0_g1_i1_2	3	10,2	31,735	16,849					
ARUBRA_DN3045_c0_g1_i1_5	3	8,4	38,606	18,091	PF01813.16	ATP-synt_D	236,5	2,10E-70	No_clan
ARUBRA_DN21269_c0_g1_i1_2	3	19,9	32,753	18,097	PF00862.18	Sucrose_synth	292,9	3,40E-87	CL0113
ARHOMBI_DN3422_c0_g1_i1_5	2	10,9	30,005	16,024	PF01849.17	NAC	68,5	3,40E-19	No_clan
ARUBRA_DN11946_c0_g1_i1_3	3	33,5	20,24	23,341	PF00091.24	Tubulin	42,3	8,80E-11	CL0566
ARUBRA_DN428_c0_g1_i1_5	2	21,7	14,942	15,387					
ARHOMBI_DN1985_c0_g2_i1_1	3	22,5	17,669	18,468	PF06957.10	COPI_C	214,8	1,60E-63	CL0020
ARUBRA_DN11238_c0_g1_i1_6	3	15,3	21,096	68,026	PF10185.8	Mesd	27,5	2,40E-06	No_clan
ARHOMBI_DN11429_c0_g1_i1_1	3	24,1	11,811	17,785	PF05051.12	COX17	47,3	1,90E-12	CL0351
ARUBRA_DN2583_c0_g2_i1_4	1	8,3	12,165	7,0631	PF01253.21	SUI1	89,5	1,40E-25	No_clan
ARHOMBI_DN5242_c0_g1_i1_4	3	9,6	55,894	19,147	PF08241.11	Methyltransf_11	63,4	2,20E-17	CL0063
ARUBRA_DN3984_c0_g1_i1_3	3	8,6	57,477	19,532	PF00026.22	Asp	466,6	4,00E-140	CL0129
ARHOMBI_DN13132_c0_g1_i1_4	3	42	8,4598	124,71	PF05907.12	DUF866	37,9	1,50E-09	No_clan
ARHOMBI_DN17057_c0_g1_i1_3	1	5,3	25,711	6,465	PF00479.21	G6PD_N	195,1	1,40E-57	CL0063
ARHOMBI_DN328_c0_g1_i1_6	3	25	25,132	20,014	PF00198.22	2-oxoacid_dh	156,7	5,80E-46	CL0149
ARUBRA_DN4992_c0_g1_i2_1	2	8,5	19,492	16,521					
ARHOMBI_DN10598_c0_g1_i1_3	3	19,6	21,697	20,542					
ARHOMBI_DN4392_c0_g1_i1_3	2	5,5	47,629	12,626	PF01399.26	PCI	39,8	4,90E-10	CL0123

ARUBRA_DN6255_c0_g1_i1_2	2	23	18,083	82,812	PF00076.21	RRM_1	39,5	3,50E-10	CL0221
ARUBRA_DN8387_c0_g1_i1_5	2	11,3	29,769	13,359					
ARUBRA_DN2057_c0_g1_i1_6	3	16,4	33,242	20,654	PF00118.23	Cpn60_TCP1	221,3	1,90E-65	No_clan
ARHOMBI_DN11616_c0_g1_i1_3	2	29,7	12,317	7,074	PF04969.15	CS	66,1	4,00E-18	CL0190
ARHOMBI_DN15140_c0_g1_i1_3	1	13,4	8,6341	6,1503					
ARUBRA_DN186_c0_g1_i1_4	5	16,6	49,913	32,965	PF00076.21	RRM_1	71,7	3,00E-20	CL0221
ARUBRA_DN18420_c0_g1_i1_3	1	9,3	11,58	9,2792	PF03662.13	Glyco_hydro_79n	126,1	1,30E-36	CL0058
ARHOMBI_DN736_c0_g2_i1_6	4	11,5	60,535	27,43	PF01370.20	Epimerase	76	2,70E-21	CL0063
ARHOMBI_DN8058_c0_g1_i1_5	3	18,1	28,103	19,262	PF03141.15	Methyltransf_29	348	7,50E-104	CL0063
ARHOMBI_DN13310_c0_g1_i1_4	1	18	10,42	6,5963	PF00311.16	PEPcase	76,5	1,20E-21	CL0151
ARUBRA_DN19795_c0_g1_i1_2	1	13,9	10,847	6,9498	PF00118.23	Cpn60_TCP1	123,1	1,10E-35	No_clan
ARHOMBI_DN15499_c0_g1_i1_1	3	14,6	38,394	66,919	PF00635.25	Motile_Sperm	104,4	2,50E-30	CL0556
ARHOMBI_DN5591_c0_g1_i1_2	5	11,2	56,858	34,026	PF01238.20	PMI_typeI	363	1,70E-108	CL0029
ARHOMBI_DN2375_c0_g1_i1_6	3	28,2	13,706	17,712					
ARHOMBI_DN15343_c0_g1_i1_2	4	6,4	72,604	80,555	PF04734.12	Ceramidase_alk	696,1	2,30E-209	No_clan
ARUBRA_DN1522_c0_g1_i1_5	3	17,4	32,268	21,139	PF00561.19	Abhydrolase_1	28,5	9,90E-07	CL0028
ARHOMBI_DN6216_c0_g1_i1_4	3	7,2	67,272	20,981	PF00464.18	SHMT	696,6	6,70E-210	CL0061
ARHOMBI_DN5056_c0_g1_i1_4	2	16	22,658	6,6541	PF00298.18	Ribosomal_L11	58,3	7,70E-16	No_clan
ARUBRA_DN4756_c0_g1_i1_6	2	5,6	34,463	11,036	PF01251.17	Ribosomal_S7e	265,8	1,70E-79	CL0652
ARHOMBI_DN3633_c0_g1_i1_2	4	10,9	64,345	25,689	PF00270.28	DEAD	121,3	3,50E-35	CL0023
ARHOMBI_DN16542_c0_g1_i1_1	1	2,8	36,285	9,0516	PF06244.11	Ccdc124	122,5	1,50E-35	CL0114
ARHOMBI_DN2386_c0_g1_i1_2	1	12,3	21,377	7,585	PF08541.9	ACP_syn_III_C	127,4	1,60E-37	CL0046
ARHOMBI_DN2790_c0_g2_i1_3	1	5,4	23,214	6,3584	PF05470.11	eIF-3c_N	309,3	4,30E-92	No_clan
ARHOMBI_DN5912_c0_g2_i4_5	1	5,7	15,395	90,398	PF01439.17	Metallothio_2	101,7	3,00E-29	No_clan
ARUBRA_DN9466_c0_g1_i1_6	1	5,4	20,511	7,5411	PF00118.23	Cpn60_TCP1	149,1	1,50E-43	No_clan
ARHOMBI_DN5625_c0_g1_i1_5	4	13,4	33,436	25,473	PF00085.19	Thioredoxin	79,7	1,20E-22	CL0172
ARUBRA_DN26355_c0_g1_i1_1	2	19,7	18,766	12,317	PF00920.20	ILVD_EDD	247,5	2,30E-73	No_clan
ARUBRA_DN17795_c0_g1_i1_3	2	13	31,063	15,522	PF16363.4	GDP_Man_Dehyd	352,3	2,80E-105	CL0063

ARUBRA_DN4209_c0_g1_i1_6	1	12,5	14,541	8,7809					
ARHOMBI_DN13841_c0_g1_i1_1	2	31	9,3941	6,4361					
ARUBRA_DN7189_c0_g1_i1_4	3	7,5	54,48	18,726	PF02889.15	Sec63	81,3	5,70E-23	No_clan
ARUBRA_DN17439_c0_g1_i1_4	3	32,3	11,177	7,9704	PF16113.4	ECH_2	44,9	9,80E-12	CL0127
ARUBRA_DN23385_c0_g1_i1_4	5	17,8	28,539	29,929	PF01417.19	ENTH	102,2	1,80E-29	CL0009
ARUBRA_DN3392_c0_g2_i1_2	6	21	35,991	135,66	PF00175.20	NAD_binding_1	57,7	1,40E-15	CL0091
ARUBRA_DN16420_c0_g1_i1_5	3	24,3	24,468	27,514					
ARUBRA_DN5780_c0_g1_i1_6	2	12,7	23,359	12,238	PF01248.25	Ribosomal_L7Ae	82,8	1,00E-23	CL0101
ARHOMBI_DN9968_c0_g1_i1_3	1	14,5	8,8089	7,883					
ARUBRA_DN22029_c0_g1_i1_1	3	21,5	18,732	17,526	PF00012.19	HSP70	129,7	8,90E-38	CL0108
ARHOMBI_DN6264_c0_g1_i2_1	11	47,4	29,279	20,189	PF00724.19	Oxidored_FMN	238,4	1,10E-70	CL0036
ARUBRA_DN9942_c0_g1_i1_2	3	14	24,378	166,72	PF01230.22	HIT	94,1	6,10E-27	CL0265
ARHOMBI_DN10129_c0_g1_i1_4	1	7,2	22,494	6,891	PF10602.8	RPN7	182,3	5,70E-54	CL0020
ARUBRA_DN4816_c0_g4_i1_1	1	14,5	8,2291	6,2036	PF00164.24	Ribosom_S12_S23	22,1	8,40E-05	CL0021
ARHOMBI_DN9150_c0_g1_i1_2	4	14	39,692	25,201	PF02847.16	MA3	87	7,60E-25	CL0020
ARHOMBI_DN18526_c0_g1_i1_5	3	22	19,741	13,431	PF00244.19	14.03.2003	155,1	1,70E-45	No_clan
ARHOMBI_DN5512_c0_g1_i1_3	4	20,2	36,658	29,003	PF04733.13	Coatomer_E	461,2	1,30E-138	CL0020
ARUBRA_DN18242_c0_g1_i1_1	3	22,7	23,956	21,015					
ARUBRA_DN6103_c0_g1_i1_5	3	13,2	40,802	100,49	PF01652.17	IF4E	181,6	7,90E-54	CL0625
ARHOMBI_DN4464_c0_g1_i1_6	4	27,8	28,444	24,321	PF00582.25	Usp	101,4	5,60E-29	CL0039
ARUBRA_DN21777_c0_g1_i1_4	6	15,3	57,966	45,932	PF01411.18	tRNA-synt_2c	233,5	4,00E-69	CL0040
ARHOMBI_DN6373_c0_g1_i1_1	1	12,7	14,763	6,3316					
ARUBRA_DN4890_c0_g2_i1_5	5	14,6	38,059	34,421	PF08212.11	Lipocalin_2	181,5	7,90E-54	CL0116
ARHOMBI_DN3410_c0_g1_i1_4	2	9,3	30,017	21,433	PF01204.17	Trehalase	221,2	2,50E-65	CL0059
ARUBRA_DN1360_c0_g2_i1_4	1	3,5	38,87	7,6886	PF00076.21	RRM_1	59,1	2,60E-16	CL0221
ARUBRA_DN20255_c0_g1_i1_4	2	14,7	20,596	13,579					
ARUBRA_DN12071_c0_g1_i1_2	2	21,5	23,88	13,474	PF00108.22	Thiolase_N	52,2	5,00E-14	CL0046
ARUBRA_DN25817_c0_g1_i1_2	1	17,5	10,627	7,9341	PF02453.16	Reticulon	85,8	2,80E-24	No_clan
ARUBRA_DN24145_c0_g1_i1_1	3	49,1	11,126	18,151	PF00180.19	Iso_dh	92,3	2,90E-26	CL0270
ARHOMBI_DN6283_c0_g6_i1_6	1	15,5	14,249	7,7389	PF03143.16	GTP_EFTU_D3	118,3	1,80E-34	No_clan
ARUBRA_DN3001_c0_g1_i1_6	2	10,9	28,228	12,812					
ARUBRA_DN18461_c0_g1_i1_6	1	17,3	8,7276	7,2809					

ARUBRA_DN10353_c1_g1_i1_5	4	20,1	31,811	69,125					
ARHOMBI_DN25343_c0_g1_i1_2	2	12	18,895	16,256	PF00450.21	Peptidase_S10	102,4	3,30E-29	CL0028
ARHOMBI_DN7398_c0_g1_i1_3	2	17,1	20,404	13,123	PF00762.18	Ferrochelatase	173,6	4,90E-51	CL0043
ARHOMBI_DN6728_c0_g1_i1_4	3	15,6	30,413	19,44					
ARUBRA_DN3802_c0_g1_i1_4	2	13,1	30,942	19,009	PF02985.21	HEAT	22,3	9,00E-05	CL0020
ARHOMBI_DN13057_c0_g1_i1_1	2	14,8	22,484	18,466	PF02338.18	OTU	89,9	1,70E-25	CL0125
ARUBRA_DN9924_c0_g1_i1_4	3	10,6	47,164	18,566	PF01926.22	MMR_HSR1	57,9	8,70E-16	CL0023
ARHOMBI_DN430_c0_g1_i1_3	2	9,9	44,898	12,716	PF00574.22	CLP_protease	268,3	3,00E-80	CL0127
ARUBRA_DN3936_c0_g2_i1_4	3	38,4	12,587	19,224	PF03405.13	FA_desaturase_2	184,8	1,70E-54	CL0044
ARUBRA_DN4814_c0_g1_i3_4	2	11,3	26,74	18,577	PF00314.16	Thaumatin	186,4	5,50E-55	CL0293
ARUBRA_DN2381_c0_g1_i1_1	5	14,2	56,843	71,837	PF00150.17	Cellulase	55	7,60E-15	CL0058
ARHOMBI_DN6212_c0_g1_i2_6	2	5,9	27,41	50,022	PF02966.15	DIM1	222,4	1,20E-66	CL0172
ARUBRA_DN20443_c0_g1_i1_3	5	30,5	24,872	32,488	PF00155.20	Aminotran_1_2	30,7	1,70E-07	CL0061
ARHOMBI_DN11311_c0_g1_i1_5	4	44,1	20,107	21,605	PF00702.25	Hydrolase	55,5	8,40E-15	CL0137
ARHOMBI_DN17429_c0_g1_i1_6	4	34,8	17,975	26,088					
ARUBRA_DN3578_c0_g1_i1_4	2	7,8	34,934	12,538	PF00071.21	Ras	193,6	1,50E-57	CL0023
ARUBRA_DN11131_c0_g1_i1_3	2	29,5	10,646	12,876					
ARHOMBI_DN4521_c1_g1_i1_1	4	41,5	16,696	20,238	PF02359.17	CDC48_N	40,1	2,80E-10	CL0332
ARHOMBI_DN17261_c0_g1_i1_1	4	17,8	27,943	30,131	PF04321.16	RmlD_sub_bind	120,7	5,90E-35	CL0063
ARUBRA_DN1069_c0_g2_i1_1	1	10	15,247	6,7657	PF03151.15	TPT	130,6	6,70E-38	CL0184
ARHOMBI_DN5132_c0_g2_i1_6	1	6,1	21,584	6,4715					
ARUBRA_DN3311_c0_g1_i1_6	2	29,3	10,826	13,625					
ARUBRA_DN8175_c0_g1_i1_5	2	7,3	60,872	15,53	PF01326.18	PPDK_N	115,1	3,60E-33	CL0179
ARUBRA_DN16564_c0_g1_i1_6	1	16,1	12,362	-2					
ARUBRA_DN19149_c0_g1_i1_6	6	16,2	54,373	35,799	PF01591.17	6PF2K	283,5	8,10E-85	CL0023
ARUBRA_DN5180_c0_g1_i1_3	1	17,8	16,588	6,5217	PF07970.11	COPIIcoated_ERV	136	1,60E-39	No_clan
ARUBRA_DN20917_c0_g1_i1_3	2	21,1	12,343	15,785	PF00160.20	Pro_isomerase	135,1	2,30E-39	CL0475
ARHOMBI_DN20733_c0_g1_i1_3	2	22,1	12,141	18,454	PF00155.20	Aminotran_1_2	37,6	1,30E-09	CL0061
ARUBRA_DN10088_c0_g1_i1_1	4	29,7	21,701	6,7465	PF00171.21	Aldedh	175,8	1,10E-51	CL0099
ARHOMBI_DN19569_c0_g1_i1_5	5	20,6	24,872	34,379	PF00160.20	Pro_isomerase	151,7	1,80E-44	CL0475
ARUBRA_DN2998_c0_g1_i1_1	1	3,9	41,652	7,9373	PF01086.16	Clathrin_lg_ch	51,2	1,60E-13	No_clan
ARUBRA_DN1494_c0_g1_i1_3	5	8,5	91,55	34,044	PF01645.16	Glu_synthase	530	3,00E-159	CL0036

ARHOMBI_DN4699_c0_g1_i1_3	5	18,5	46,568	30,335	PF01975.16	SurE	179	8,30E-53	No_clan
ARHOMBI_DN5814_c0_g1_i1_4	4	10,6	49,099	17,535	PF00056.22	Ldh_1_N	155,9	6,00E-46	CL0063
ARHOMBI_DN21914_c0_g1_i1_1	5	62,9	11,508	18,391	PF02800.19	Gp_dh_C	120,9	3,20E-35	CL0139
ARHOMBI_DN5567_c0_g1_i1_3	5	11,3	67,977	29,634	PF01237.17	Oxysterol_BP	333,7	1,10E-99	No_clan
ARUBRA_DN1463_c0_g2_i1_5	4	13,7	48,585	22,676	PF02990.15	EMP70	350,9	1,00E-104	No_clan
ARHOMBI_DN17982_c0_g1_i1_5	3	20,3	19,915	165,03	PF01263.19	Aldose_epim	161,6	2,40E-47	CL0103
ARUBRA_DN2123_c0_g2_i1_3	2	16,6	25,649	13,959	PF10585.8	UBA_e1_thiolCys	122,1	3,40E-35	No_clan
ARHOMBI_DN2126_c0_g2_i1_6	4	14,4	48,859	31,834	PF01429.18	MBD	23,4	3,30E-05	CL0081
ARUBRA_DN8853_c0_g1_i1_6	1	24,4	9,695	9,2321	PF00390.18	malic	70,7	1,20E-19	CL0603
ARUBRA_DN1745_c0_g2_i1_1	2	26,1	11,882	13,994					
ARHOMBI_DN3877_c0_g1_i1_1	3	22,6	20,053	19,785	PF02230.15	Abhydrolase_2	105,3	3,60E-30	CL0028
ARUBRA_DN3955_c0_g2_i1_2	1	7,4	16,756	6,1647					
ARUBRA_DN8757_c0_g1_i1_5	2	7,8	30,871	311,75					
ARHOMBI_DN1665_c0_g1_i1_2	5	24,5	34,182	32,624	PF01459.21	Porin_3	228,2	1,20E-67	CL0193
ARHOMBI_DN11418_c0_g1_i1_2	1	34,6	8,3135	9,5086					
ARHOMBI_DN8306_c0_g1_i1_4	2	22,4	16,339	12,722	PF01088.20	Peptidase_C12	110,8	6,90E-32	CL0125
ARUBRA_DN20020_c0_g1_i1_2	1	6,7	13,44	6,3961					
ARUBRA_DN148_c0_g1_i1_1	3	15,5	25,479	24,685	PF09360.9	zf-CDGSH	37	2,60E-09	No_clan
ARHOMBI_DN25089_c0_g1_i1_1	2	13,7	17,453	11,842	PF00152.19	tRNA-synt_2	57,2	1,30E-15	CL0040
ARUBRA_DN11014_c0_g1_i1_6	2	17	10,333	16,917	PF01633.19	Choline_kinase	95,3	3,60E-27	CL0016
ARHOMBI_DN18155_c0_g1_i1_2	2	13,9	25,302	13,501	PF00085.19	Thioredoxin	30,4	2,70E-07	CL0172
ARUBRA_DN5032_c2_g1_i2_2	3	16,8	21,223	24,264	PF13602.5	ADH_zinc_N_2	73,4	3,20E-20	CL0063
ARHOMBI_DN5326_c0_g1_i1_3	1	15,1	18,547	10,086	PF08240.11	ADH_N	36,1	4,40E-09	CL0296
ARHOMBI_DN15674_c0_g1_i1_5	4	51,9	11,597	26,217	PF01467.25	CTP_transf_like	37,1	3,00E-09	CL0039
ARHOMBI_DN5386_c1_g1_i2_5	3	10,3	48,015	17,737	PF00076.21	RRM_1	50,7	1,10E-13	CL0221
ARUBRA_DN4407_c0_g4_i1_6	1	7,7	28,82	6,3448	PF06351.10	Allene_ox_cyc	310	3,30E-93	CL0650
ARHOMBI_DN17588_c0_g1_i1_4	2	35,2	10,293	12,959					
ARHOMBI_DN7219_c0_g1_i1_3	1	14,8	8,3152	23,909					
ARHOMBI_DN7958_c0_g1_i1_4	2	25,6	13,921	6,8398	PF01459.21	Porin_3	36,3	3,80E-09	CL0193
ARUBRA_DN4721_c0_g1_i2_1	2	4,3	51,797	12,951	PF09598.9	Stm1_N	75,8	3,30E-21	No_clan
ARHOMBI_DN5441_c0_g1_i1_5	2	5,2	38,853	11,376	PF00582.25	Usp	96,5	1,80E-27	CL0039
ARUBRA_DN7416_c0_g1_i1_6	5	16,7	45,175	28,989	PF00202.20	Aminotran_3	326,2	2,30E-97	CL0061

ARUBRA_DN6341_c0_g1_i1_1	2	10,6	27,843	12,444	PF00384.21	Molybdopterin	89,1	2,70E-25	No_clan
ARUBRA_DN25250_c0_g1_i1_2	1	20,4	11,55	7,4991	PF01399.26	PCI	53,2	3,10E-14	CL0123
ARUBRA_DN12031_c0_g1_i1_3	2	28,7	11,061	13,655					
ARUBRA_DN9279_c0_g1_i1_5	1	18,9	10,152	9,1826	PF02990.15	EMP70	95,3	3,10E-27	No_clan
ARHOMBI_DN3515_c0_g1_i1_3	2	12,2	24,229	9,4823	PF13561.5	adh_short_C2	109,8	1,30E-31	CL0063
ARHOMBI_DN4682_c0_g1_i1_3	1	8,7	21,342	11,418	PF00428.18	Ribosomal_60s	45,6	7,40E-12	No_clan
ARHOMBI_DN23760_c0_g1_i1_6	1	29,4	6,9045	197,11					
ARHOMBI_DN15221_c0_g1_i1_1	3	21,9	24,242	14,433	PF01417.19	ENTH	70,6	1,10E-19	CL0009
ARHOMBI_DN9078_c0_g1_i1_6	4	29,7	15,697	26,462	PF05450.14	Nicastrin	25	1,00E-05	CL0035
ARUBRA_DN11010_c0_g1_i1_3	4	50,8	14,573	25,145	PF05091.11	eIF-3_zeta	169,8	1,00E-49	CL0236
ARUBRA_DN17427_c0_g1_i1_4	4	43,5	14,824	24,118	PF00160.20	Pro_isomerase	67,4	1,60E-18	CL0475
ARUBRA_DN20283_c0_g1_i1_1	4	21,4	27,776	36,508	PF16499.4	Melibiase_2	46,6	2,30E-12	CL0058
ARUBRA_DN18073_c0_g1_i1_6	3	13,9	32,856	19,347	PF13774.5	Longin	42,8	3,70E-11	No_clan
ARUBRA_DN4594_c0_g2_i1_4	3	7,5	56,172	19,191	PF00450.21	Peptidase_S10	484,5	3,60E-145	CL0028
ARUBRA_DN4871_c0_g2_i1_3	2	4,1	46,579	11,311	PF13855.5	LRR_8	37,8	1,10E-09	CL0022
ARHOMBI_DN5577_c1_g1_i1_5	2	15,3	21,88	12,405	PF09334.10	tRNA-synt_1g	208,3	1,50E-61	CL0039
ARHOMBI_DN21271_c0_g1_i1_1	1	8,3	16,084	6,8443	PF14226.5	DIOX_N	105,2	3,20E-30	CL0029
ARUBRA_DN8542_c0_g1_i1_4	3	16,3	32,441	23,684	PF00076.21	RRM_1	50,2	1,50E-13	CL0221
ARHOMBI_DN10118_c0_g1_i1_1	2	24,8	13,424	13,007	PF00478.24	IMPDH	59,7	2,20E-16	CL0036
ARUBRA_DN18680_c0_g1_i1_3	2	13,2	24,486	12,122					
ARUBRA_DN2284_c0_g2_i1_3	3	12,7	34,771	24,409	PF13616.5	Rotamase_3	52,7	5,00E-14	CL0487
ARUBRA_DN7415_c0_g1_i1_6	4	19,1	29,96	7,6139	PF03721.13	UDPG_MGDP_dh_N	227,1	1,10E-67	CL0063
ARUBRA_DN113_c0_g1_i2_3	2	7,3	33,309	12,307	PF00227.25	Proteasome	134,7	2,50E-39	CL0052
ARHOMBI_DN26770_c0_g1_i1_3	3	39,4	11,655	14,701	PF00330.19	Aconitase	69	3,70E-19	No_clan
ARHOMBI_DN16112_c0_g1_i1_2	1	7,4	18,73	6,4644	PF03223.14	V-ATPase_C	221	2,90E-65	No_clan
ARUBRA_DN17277_c0_g1_i1_1	2	18,1	16,066	63,061	PF05564.11	Auxin_repressed	35,2	1,50E-08	No_clan
ARHOMBI_DN1288_c0_g1_i1_2	2	37,7	8,0983	12,254					
ARUBRA_DN70_c0_g1_i1_1	2	8	29,312	12,177	PF02668.15	TauD	71,2	1,10E-19	CL0029
ARUBRA_DN18307_c0_g1_i1_1	4	12,9	41,37	24,285					
ARUBRA_DN17020_c0_g1_i1_1	3	9,2	55,23	19,233	PF02847.16	MA3	53,8	1,60E-14	CL0020
ARUBRA_DN4917_c0_g1_i2_1	2	7,1	45,87	13,128	PF00834.18	Ribul_P_3_epim	292,3	1,20E-87	CL0036
ARHOMBI_DN5372_c0_g1_i1_3	2	8,7	29,5	12,427	PF06703.10	SPC25	137	4,30E-40	No_clan

ARHOMBI_DN24609_c0_g1_i1_6	1	8,3	15,256	6,3395	PF05368.12	NmrA	132,2	2,00E-38	CL0063
ARHOMBI_DN2660_c0_g1_i1_5	2	8,7	40,115	25,355	PF00076.21	RRM_1	47,9	8,10E-13	CL0221
ARUBRA_DN16475_c0_g1_i1_2	2	25,5	11,368	160,58					
ARUBRA_DN23765_c0_g1_i1_1	3	38,6	9,3818	26,592					
ARHOMBI_DN22879_c0_g1_i1_2	4	26,9	21,241	28,105					
ARUBRA_DN8139_c0_g1_i1_1	2	14,7	24,074	14,901	PF03358.14	FMN_red	39	5,70E-10	CL0042
ARUBRA_DN1221_c0_g2_i1_5	1	12,8	15,933	9,5032	PF01247.17	Ribosomal_L35Ae	151,3	6,00E-45	CL0575
ARHOMBI_DN14041_c0_g1_i1_6	1	14,7	8,1881	6,3956	PF13528.5	Glyco_trans_1_3	28,2	9,90E-07	CL0113
ARUBRA_DN4848_c0_g1_i1_3	1	7,9	16,312	7,0753					
ARUBRA_DN25967_c0_g1_i1_1	5	53,9	14,38	13,985	PF00179.25	UQ_con	127,6	2,40E-37	CL0208
ARUBRA_DN6775_c0_g1_i1_1	4	21,7	27,843	23,92	PF11938.7	DUF3456	120,1	1,10E-34	No_clan
ARHOMBI_DN4127_c0_g1_i1_6	3	9,6	45,416	17,078	PF00479.21	G6PD_N	34,3	3,10E-08	CL0063
ARUBRA_DN6005_c0_g1_i1_2	1	20,2	9,0331	7,1899	PF10509.8	GalKase_gal_bdg	21,7	9,90E-05	CL0329
ARUBRA_DN9533_c0_g1_i1_6	1	12,9	14,34	7,6961	PF02776.17	TPP_enzyme_N	41,7	8,40E-11	CL0254
ARUBRA_DN4945_c1_g1_i1_4	1	3,5	40,86	7,0728	PF00365.19	PFK	151	4,00E-44	CL0240
ARUBRA_DN2632_c0_g1_i1_5	6	22,6	39,791	39,123	PF08240.11	ADH_N	34	1,90E-08	CL0296
ARUBRA_DN253_c0_g2_i1_2	1	10,3	11,351	6,4257	PF01249.17	Ribosomal_S21e	67,6	6,80E-19	No_clan
ARUBRA_DN4035_c0_g2_i1_1	1	3,5	56,36	7,2777	PF00450.21	Peptidase_S10	476	1,30E-142	CL0028
ARHOMBI_DN5174_c0_g1_i1_1	2	10	22,859	13,25	PF05368.12	NmrA	105,9	2,10E-30	CL0063
ARUBRA_DN3267_c0_g1_i1_6	2	4,8	44,604	11,544	PF02453.16	Reticulon	196,2	2,90E-58	No_clan
ARUBRA_DN12853_c0_g1_i1_1	5	51,4	11,934	120,46	PF01717.17	Meth_synt_2	171,3	2,80E-50	CL0160
ARHOMBI_DN20424_c0_g1_i1_6	2	13,8	16,868	91,812	PF01172.17	SBDS	100	5,40E-29	No_clan
ARUBRA_DN4281_c0_g1_i1_1	7	20,4	60,466	38,242	PF00004.28	AAA	146,1	7,10E-43	CL0023
ARHOMBI_DN3485_c0_g1_i1_4	4	19,1	29,543	24,888	PF02575.15	YbaB_DNA_bd	61,2	8,00E-17	No_clan
ARUBRA_DN18869_c0_g1_i1_5	3	10,7	39,232	17,937	PF00750.18	tRNA-synt_1d	257,9	1,10E-76	CL0039
ARHOMBI_DN804_c0_g1_i1_6	2	17,8	15,979	12,25	PF02747.14	PCNA_C	189,7	1,80E-56	CL0060
ARUBRA_DN1537_c0_g1_i1_2	2	13	23,395	156,05	PF00076.21	RRM_1	66,4	1,40E-18	CL0221
ARUBRA_DN1957_c0_g2_i1_6	2	26,7	17,92	14,705	PF03485.15	Arg_tRNA_synt_N	62,7	3,50E-17	No_clan
ARUBRA_DN6807_c0_g1_i1_3	3	15,1	29,373	19,815	PF02784.15	Orn_Arg_deC_N	116,4	1,20E-33	CL0036
ARUBRA_DN4637_c0_g2_i1_1	4	17,1	43,982	6,1697	PF00438.19	S-AdoMet_synt_N	143,1	3,20E-42	No_clan
ARHOMBI_DN6131_c0_g1_i4_6	2	5,7	47,861	55,407	PF08240.11	ADH_N	31,6	1,10E-07	CL0296
ARUBRA_DN5357_c0_g1_i1_1	2	16,1	23,186	15,699	PF00152.19	tRNA-synt_2	112	2,70E-32	CL0040

ARUBRA_DN2637_c0_g1_i1_4	2	10	29,997	20,893	PF12796.6	Ank_2	46,8	3,10E-12	CL0465
ARHOMBI_DN16197_c0_g1_i1_4	2	19,3	22,223	13,878	PF00790.18	VHS	35,8	5,90E-09	CL0009
ARUBRA_DN10661_c0_g1_i1_4	3	13,7	34,616	17,716	PF03141.15	Methyltransf_29	346,8	1,70E-103	CL0063
ARHOMBI_DN4011_c0_g2_i1_5	2	14,6	24,719	7,1231					
ARUBRA_DN4545_c0_g1_i1_5	2	12,1	21,943	11,611	PF01738.17	DLH	84,1	9,40E-24	CL0028
ARUBRA_DN22266_c0_g1_i1_1	2	13,3	23,186	11,535	PF00450.21	Peptidase_S10	100,2	1,60E-28	CL0028
ARUBRA_DN9362_c0_g1_i1_5	2	25,9	14,321	18,371	PF02594.15	DUF167	79,7	1,20E-22	No_clan
ARUBRA_DN22269_c0_g1_i1_4	1	16,9	9,2842	6,9197	PF13855.5	LRR_8	27,8	1,50E-06	CL0022
ARHOMBI_DN3395_c0_g2_i1_6	2	8,7	38,216	15,169	PF01875.16	Memo	281,9	3,90E-84	CL0283
ARUBRA_DN18997_c0_g1_i1_6	4	9,3	69,918	26,477	PF03055.14	RPE65	397,7	6,30E-119	No_clan
ARHOMBI_DN6095_c0_g1_i1_4	6	12	62,395	20,332	PF00226.30	DnaJ	80,2	8,00E-23	CL0392
ARHOMBI_DN1066_c0_g2_i1_3	1	7,6	17,816	6,4667	PF06814.12	Lung_7-TM_R	86,6	1,60E-24	CL0192
ARHOMBI_DN14495_c0_g1_i1_4	2	50	7,953	15,665	PF01496.18	V_ATPase_I	104,2	4,30E-30	No_clan
ARUBRA_DN10359_c0_g1_i1_4	2	7,4	39,654	13,919	PF02990.15	EMP70	416,2	1,80E-124	No_clan
ARUBRA_DN20926_c0_g1_i1_1	2	18,7	13,391	39,505					
ARHOMBI_DN3507_c0_g1_i1_4	3	4,3	85,747	20,339	PF08240.11	ADH_N	33,6	2,70E-08	CL0296
ARHOMBI_DN25279_c0_g1_i1_2	1	21,1	7,6393	6,8664	PF00091.24	Tubulin	61,6	1,10E-16	CL0566
ARHOMBI_DN4819_c0_g1_i1_1	3	11	43,915	19,532	PF00118.23	Cpn60_TCP1	328,7	5,30E-98	No_clan
ARHOMBI_DN6082_c0_g1_i3_5	9	36,9	31,243	7,7695	PF00076.21	RRM_1	78,4	2,40E-22	CL0221
ARUBRA_DN24896_c0_g1_i1_3	2	43,8	9,3148	12,541	PF00343.19	Phosphorylase	109	1,90E-31	CL0113
ARUBRA_DN6755_c0_g1_i1_2	3	15,9	33,094	13,664	PF00514.22	Arm	32	7,90E-08	CL0020
ARHOMBI_DN5218_c0_g1_i2_1	3	9	45,94	18,664					
ARUBRA_DN25837_c0_g1_i1_3	3	20,2	19,63	12,631	PF00393.18	6PGD	170,9	3,60E-50	CL0106
ARUBRA_DN24388_c0_g1_i1_4	3	61,8	8,1689	18,223					
ARHOMBI_DN11066_c0_g1_i1_4	1	12,4	11,704	6,6599	PF00067.21	p450	39,7	2,40E-10	No_clan
ARUBRA_DN3745_c0_g2_i1_2	2	25	14,089	15,527	PF04398.11	DUF538	30,9	2,80E-07	No_clan
ARUBRA_DN14017_c0_g1_i1_3	2	31,1	8,2946	12,075					
ARUBRA_DN145_c0_g1_i1_4	2	22,4	19,187	16,152					
ARUBRA_DN11007_c0_g1_i1_2	3	16,3	23,02	18,394	PF05529.11	Bap31	40,4	2,10E-10	No_clan
ARUBRA_DN9096_c0_g1_i1_3	1	17,4	6,9715	6,4692					

ARHOMBI_DN4782_c0_g1_i1_2	4	7,6	71,132	24,205	PF00888.21	Cullin	456,8	1,20E-136	No_clan
ARHOMBI_DN2849_c0_g1_i1_3	4	10,9	49,682	25,865	PF00226.30	DnaJ	98	2,30E-28	CL0392
ARHOMBI_DN7054_c0_g1_i1_3	3	16,1	28,253	20,048	PF00632.24	HECT	256,6	3,20E-76	CL0552
ARHOMBI_DN2798_c0_g1_i1_2	3	14,3	44,219	20,584	PF01103.22	Bac_surface_Ag	63,8	1,70E-17	CL0193
ARUBRA_DN18224_c0_g1_i1_4	2	20,6	15,268	11,942	PF00626.21	Gelsolin	42,3	4,80E-11	CL0092
ARHOMBI_DN25584_c0_g1_i1_5	3	44,1	10,237	18,304	PF03911.15	Sec61_beta	42,7	3,80E-11	No_clan
ARHOMBI_DN3781_c0_g2_i1_5	2	7,5	30,967	16,075	PF02861.19	Clp_N	35,6	7,10E-09	No_clan
ARHOMBI_DN7337_c0_g1_i1_1	1	9,1	19,938	6,6419	PF02178.18	AT_hook	11,5	0,21	No_clan
ARHOMBI_DN5812_c2_g1_i1_3	2	12,7	19,167	37,547	PF01873.16	eIF-5_eIF-2B	128	1,50E-37	No_clan
ARUBRA_DN4150_c2_g1_i1_4	6	45,5	17,631	55,624	PF00071.21	Ras	186,9	1,70E-55	CL0023
ARHOMBI_DN1574_c0_g1_i1_4	2	16,1	17,817	13,643	PF00118.23	Cpn60_TCP1	154,9	2,60E-45	No_clan
ARUBRA_DN8202_c0_g1_i1_4	1	4,4	27,357	6,3797					
ARUBRA_DN1551_c0_g1_i1_5	2	52,7	9,6886	16,051					
ARUBRA_DN12626_c0_g1_i1_3	1	3,9	36,744	25,179	PF03517.12	Voldacs	89,5	2,00E-25	CL0266
ARHOMBI_DN4054_c0_g1_i1_3	2	10,1	24,998	24,162	PF13616.5	Rotamase_3	70	2,20E-19	CL0487
ARUBRA_DN9286_c0_g1_i1_1	3	17,1	24,466	18,77	PF12481.7	DUF3700	301	4,40E-90	CL0052
ARHOMBI_DN3767_c0_g1_i1_1	1	13,8	18,12	12,779	PF01920.19	Prefoldin_2	78,1	4,00E-22	CL0200
ARUBRA_DN20292_c0_g1_i1_6	1	5,9	32,143	7,9822	PF00903.24	Glyoxalase	31	2,20E-07	CL0104
ARHOMBI_DN2005_c0_g1_i1_5	2	17,2	14,026	14,681	PF01132.19	EFP	46	3,70E-12	CL0021
ARUBRA_DN4908_c0_g2_i1_1	2	6,2	47,224	50,189	PF00300.21	His_Phos_1	23,4	3,80E-05	CL0071
ARUBRA_DN1276_c0_g1_i1_4	3	13,5	39,769	21,1	PF00149.27	Metallophos	77,3	2,10E-21	CL0163
ARUBRA_DN4583_c0_g1_i2_5	3	14,6	28,541	18,91	PF04667.16	Endosulfine	73,5	1,00E-20	No_clan
ARHOMBI_DN4896_c0_g1_i3_2	3	18,6	23,197	17,998	PF10604.8	Polyketide_cyc2	78,9	4,20E-22	CL0209
ARUBRA_DN12695_c0_g1_i1_2	2	17,5	8,7048	12,771	PF05633.10	BPS1	81,4	6,00E-23	CL0133
ARHOMBI_DN15171_c0_g1_i1_3	3	22,4	20,63	18,939	PF00198.22	2-oxoacid_dh	153,7	5,00E-45	CL0149
ARHOMBI_DN7103_c0_g1_i1_1	2	32,5	8,84	13,682					
ARHOMBI_DN5209_c1_g1_i1_4	5	31,4	23,882	13,992	PF00702.25	Hydrolase	67,6	1,70E-18	CL0137
ARHOMBI_DN22071_c0_g1_i1_3	3	28,3	13,644	182,67	PF02879.15	PGM_PMM_II	59,9	2,80E-16	No_clan
ARHOMBI_DN1841_c0_g2_i1_2	7	47,1	24,547	6,9735	PF00004.28	AAA	140,4	4,10E-41	CL0023
ARUBRA_DN563_c0_g1_i1_2	1	7,6	22,668	6,178	PF00106.24	adh_short	34,6	1,20E-08	CL0063
ARUBRA_DN24632_c0_g1_i1_4	1	19,4	10,068	7,5131	PF00162.18	PGK	142,7	1,30E-41	No_clan
ARUBRA_DN3539_c0_g1_i1_2	5	19,1	36,747	37,778					

ARUBRA_DN1361_c0_g2_i1_4	3	14,4	25,178	16,954	PF06212.11	GRIM-19	140,6	2,50E-41	No_clan
ARUBRA_DN11150_c0_g1_i1_6	3	54,8	10,773	19,321	PF10609.8	ParA	39,9	2,80E-10	CL0023
ARHOMBI_DN1996_c0_g2_i1_5	1	4,6	28,494	12,363	PF00627.30	UBA	40,5	1,60E-10	CL0214
ARHOMBI_DN2999_c0_g1_i1_4	2	10,1	45,646	13,554	PF01398.20	JAB	52	5,60E-14	CL0366
ARHOMBI_DN2060_c0_g1_i1_5	4	24,8	22,352	25,569	PF06957.10	COPI_C	330	1,70E-98	CL0020
ARUBRA_DN9709_c0_g1_i1_6	1	7,7	16,605	43,557	PF02136.19	NTF2	51,8	9,70E-14	CL0051
ARHOMBI_DN23173_c0_g1_i1_6	1	8,7	20,215	6,8898	PF00781.23	DAGK_cat	48,9	4,30E-13	CL0240
ARHOMBI_DN10290_c0_g1_i1_3	1	9,9	10,917	6,4007	PF00658.17	PABP	47,6	1,30E-12	No_clan
ARUBRA_DN2965_c0_g1_i2_5	4	15,7	38,094	25,641	PF01135.18	PCMT	284,9	3,50E-85	CL0063
ARUBRA_DN3863_c1_g1_i1_5	3	12,7	37,796	19,183	PF07714.16	Pkinase_Tyr	128,5	2,40E-37	CL0016
ARHOMBI_DN10379_c0_g1_i1_2	4	23,1	22,858	-2	PF01717.17	Meth_synt_2	181,5	2,20E-53	CL0160
ARHOMBI_DN2726_c0_g1_i1_1	1	11,4	16,551	13,623	PF00364.21	Biotin_lipoyl	32,8	4,20E-08	CL0105
ARUBRA_DN7712_c0_g1_i1_6	1	13,6	11,186	6,9883	PF13646.5	HEAT_2	38,1	1,50E-09	CL0020
ARUBRA_DN4320_c0_g1_i1_6	4	13,3	37,764	24,657	PF01873.16	eIF-5_eIF-2B	134,1	1,90E-39	No_clan
ARUBRA_DN11275_c0_g1_i1_5	2	21,7	17,702	12,144					
ARHOMBI_DN8255_c0_g1_i1_2	3	17,2	26,212	18,543	PF07992.13	Pyr_redox_2	132,1	2,20E-38	CL0063
ARUBRA_DN13834_c0_g1_i1_4	2	14,4	15,085	12,893	PF03141.15	Methyltransf_29	98,4	3,30E-28	CL0063
ARUBRA_DN19618_c0_g1_i1_4	3	13	33,67	36,785	PF04734.12	Ceramidase_alk	195,9	1,00E-57	No_clan
ARUBRA_DN1773_c0_g2_i1_6	2	19,7	13,217	12,933					
ARUBRA_DN1305_c0_g1_i1_6	3	8,3	38,309	6,375	PF00297.21	Ribosomal_L3	446,5	6,30E-134	CL0575
ARHOMBI_DN3128_c0_g1_i1_1	4	14,3	46,784	39,06	PF01678.18	DAP_epimerase	97,1	7,20E-28	CL0288
ARHOMBI_DN20118_c0_g1_i1_1	1	9,4	18,271	37,752	PF06101.10	Vps62	215,2	1,20E-63	No_clan
ARHOMBI_DN2022_c0_g1_i1_1	2	10,8	20,822	11,208	PF01918.20	Alba	47,1	1,50E-12	CL0441
ARHOMBI_DN3079_c0_g1_i1_3	5	12	48,584	34,438	PF01379.19	Porphobil_deam	243,9	1,00E-72	CL0177
ARHOMBI_DN8476_c0_g1_i1_3	2	8,3	24,441	11,029					
ARHOMBI_DN4305_c0_g1_i2_6	1	3,8	33,608	6,7651	PF01106.16	NifU	79,8	1,10E-22	CL0232
ARUBRA_DN10474_c0_g1_i1_2	3	20,2	23,216	19,739					
ARHOMBI_DN6299_c0_g1_i1_1	2	22	13,66	12,169					
ARHOMBI_DN3992_c0_g1_i1_6	3	8,3	58,288	18,843					
ARUBRA_DN8631_c0_g1_i1_6	1	11,3	16,462	-2					
ARUBRA_DN158_c0_g1_i1_2	3	12,5	30,9	19,551	PF00013.28	KH_1	63,8	9,00E-18	CL0007
ARUBRA_DN6110_c0_g1_i1_1	3	21,1	20,345	18,002					

ARUBRA_DN4152_c0_g1_i1_5	2	14,8	22,251	39,341	PF13637.5	Ank_4	60,9	1,00E-16	CL0465
ARHOMBI_DN20386_c0_g1_i1_1	2	14,2	18,74	12,607	PF00378.19	ECH_1	48,9	4,80E-13	CL0127
ARUBRA_DN3314_c0_g1_i1_4	1	6,5	24,857	323,31	PF00550.24	PP-binding	43,9	2,20E-11	CL0314
ARHOMBI_DN19207_c0_g1_i1_4	2	26,4	9,4598	11,943					
ARUBRA_DN13376_c0_g1_i1_2	1	8,1	21,143	6,4787	PF00349.20	Hexokinase_1	172,8	7,80E-51	CL0108
ARHOMBI_DN16745_c0_g1_i1_1	4	43,5	13,505	25,223					
ARUBRA_DN4722_c0_g1_i1_3	3	8,8	65,59	17,948	PF01512.16	Complex1_51K	161,7	1,00E-47	CL0105
ARUBRA_DN881_c0_g1_i1_1	3	18	32,262	19,585	PF00227.25	Proteasome	144,8	2,00E-42	CL0052
ARHOMBI_DN16363_c0_g1_i1_2	1	20	7,7477	36,765	PF04770.11	ZF-HD_dimer	83,2	1,10E-23	No_clan
ARHOMBI_DN18734_c0_g1_i1_1	3	18,1	30,142	18,652	PF03807.16	F420_oxidored	49,1	6,20E-13	CL0063
ARUBRA_DN3334_c0_g1_i1_1	2	13,1	19,185	12,332	PF03949.14	Malic_M	98,1	4,40E-28	CL0063
ARHOMBI_DN421_c0_g1_i1_5	2	11,4	35,001	14,213	PF00291.24	PALP	74,2	1,10E-20	No_clan
ARUBRA_DN416_c0_g1_i1_2	2	14,6	20,049	12,987	PF00085.19	Thioredoxin	97,8	2,70E-28	CL0172
ARHOMBI_DN25721_c0_g1_i1_4	2	18,8	12,78	11,25					
ARUBRA_DN11356_c0_g1_i1_6	2	7,5	30,25	11,415	PF01105.23	EMP24_GP25L	168,7	1,10E-49	CL0521
ARUBRA_DN18553_c0_g1_i1_5	1	10	14,895	173,12	PF00459.24	Inositol_P	76,7	1,90E-21	CL0171
ARHOMBI_DN3435_c0_g2_i1_3	2	9,6	29,797	13,926	PF00005.26	ABC_tran	40	4,80E-10	CL0023
ARHOMBI_DN13700_c0_g1_i1_6	2	32,2	9,7638	15,621	PF06552.11	TOM20_plant	160,8	2,80E-47	CL0020
ARHOMBI_DN10592_c0_g1_i1_1	1	12,5	11,6	6,6575					
ARUBRA_DN9072_c0_g1_i1_5	2	27,7	10,489	7,6584	PF00464.18	SHMT	144,8	2,60E-42	CL0061
ARUBRA_DN3824_c0_g1_i1_5	1	18,3	8,977	7,9284	PF00076.21	RRM_1	28,8	7,60E-07	CL0221
ARUBRA_DN4832_c0_g1_i1_2	2	18,2	16,52	9,918	PF00450.21	Peptidase_S10	20,7	0,00022	CL0028
ARUBRA_DN9069_c0_g1_i1_4	2	11,1	25,065	14,431	PF00076.21	RRM_1	53,3	1,70E-14	CL0221
ARHOMBI_DN8777_c0_g1_i1_4	1	10,8	11,739	6,4281	PF00400.31	WD40	29,5	8,50E-07	CL0186
ARHOMBI_DN23553_c0_g1_i1_1	1	8,8	13,791	6,1647	PF03345.13	DDOST_48kD	66,5	1,80E-18	No_clan
ARHOMBI_DN3610_c0_g1_i1_3	4	31,3	22,09	201,71	PF03332.12	PMM	231,9	6,60E-69	CL0137
ARHOMBI_DN5807_c0_g2_i1_3	1	9,9	16,409	7,1361	PF00428.18	Ribosomal_60s	84,1	7,30E-24	No_clan
ARUBRA_DN4275_c0_g1_i1_5	5	10,1	68,647	32,442	PF06273.10	eIF-4B	724	1,10E-217	No_clan
ARUBRA_DN24862_c0_g1_i1_4	2	20	13,545	11,215	PF00005.26	ABC_tran	32,4	1,10E-07	CL0023
ARUBRA_DN17478_c0_g1_i1_6	4	17	29,03	6,7739	PF00244.19	14.03.2003	332,4	1,00E-99	No_clan
ARUBRA_DN2215_c0_g1_i1_4	1	7,8	16,643	85,324					
ARUBRA_DN7908_c0_g1_i1_1	2	6,6	50,559	12,739	PF01634.17	HisG	126,5	8,30E-37	CL0177

ARHOMBI_DN4809_c0_g2_i1_2	4	13,4	30,15	12,861	PF00107.25	ADH_zinc_N	91,1	4,80E-26	CL0063
ARUBRA_DN7769_c0_g1_i1_1	4	20,9	38,05	26,91	PF03446.14	NAD_binding_2	140,9	3,50E-41	CL0063
ARUBRA_DN4322_c0_g1_i1_1	2	9,9	32,432	12,196	PF04774.14	HABP4_PAI-RBP1	27,3	4,70E-06	No_clan
ARUBRA_DN25612_c0_g1_i1_4	2	19	22,06	14,638	PF13669.5	Glyoxalase_4	34,3	2,20E-08	CL0104
ARHOMBI_DN11791_c0_g1_i1_2	1	12,6	20,961	7,7996	PF00224.20	PK	183,7	3,90E-54	CL0151
ARHOMBI_DN5868_c0_g1_i1_6	3	10,3	39,115	18,437	PF01946.16	Thi4	367,4	2,10E-110	CL0063
ARUBRA_DN2981_c0_g1_i1_3	3	6,4	56,435	16,743	PF10250.8	O-FucT	101,3	8,10E-29	CL0113
ARHOMBI_DN24401_c0_g1_i1_3	1	27	9,6158	19,969					
ARUBRA_DN23505_c0_g1_i1_1	1	8,3	15,567	6,4588					
ARUBRA_DN17618_c0_g1_i1_6	1	11,9	12,048	6,21					
ARUBRA_DN1478_c0_g1_i1_1	4	13,5	40,15	23,245	PF01180.20	DHO_dh	91,9	3,70E-26	CL0036
ARHOMBI_DN2506_c0_g1_i1_6	3	24	22,284	18,241	PF04845.12	PurA	74,5	6,70E-21	CL0609
ARHOMBI_DN8898_c0_g1_i1_5	2	23,3	16,267	16,613	PF16113.4	ECH_2	192,8	1,00E-56	CL0127
ARUBRA_DN3963_c0_g2_i1_4	1	10,1	26,207	7,2339					
ARUBRA_DN210_c0_g1_i1_5	2	20,6	12,127	153,61	PF08207.11	EFP_N	25,2	1,20E-05	CL0107
ARUBRA_DN12757_c0_g1_i1_6	2	26,5	11,539	11,942	PF04053.13	Coatomer_WDAD	111,7	4,20E-32	CL0186
ARHOMBI_DN1108_c0_g2_i1_1	1	12,9	22,962	6,2775	PF00403.25	HMA	40,3	3,00E-10	No_clan
ARHOMBI_DN11591_c0_g1_i1_2	2	26,1	13,254	13,219	PF08241.11	Methyltransf_11	73,7	1,30E-20	CL0063
ARHOMBI_DN10607_c0_g1_i1_1	2	21,3	19,282	14,029	PF12580.7	TPPII	46,4	2,80E-12	No_clan
ARUBRA_DN6875_c0_g1_i1_6	2	24,9	19,451	14,464	PF14306.5	PUA_2	96,5	1,20E-27	CL0178
ARUBRA_DN25440_c0_g1_i1_2	2	25,8	15,11	12,586	PF14308.5	DnaJ-X	96,8	1,10E-27	No_clan
ARUBRA_DN7688_c0_g1_i1_2	2	11,9	25,075	14,227					
ARHOMBI_DN19744_c0_g1_i1_2	3	16,4	29,337	18,423					
ARUBRA_DN24337_c0_g1_i1_6	5	30,8	18,28	15,571	PF00071.21	Ras	127,8	2,60E-37	CL0023
ARUBRA_DN20434_c0_g1_i1_2	2	8,2	32,635	11,987	PF10602.8	RPN7	143	6,90E-42	CL0020
ARHOMBI_DN5476_c0_g1_i1_6	3	9,9	54,811	18,029	PF01851.21	PC_rep	21,3	0,00024	CL0020
ARHOMBI_DN9888_c0_g1_i1_2	2	19,3	16,545	13,172	PF00390.18	malic	192,7	4,30E-57	CL0603
ARHOMBI_DN2706_c0_g1_i1_5	2	14,5	28,262	13,361	PF00557.23	Peptidase_M24	105,4	2,90E-30	No_clan
ARUBRA_DN5778_c0_g1_i1_4	3	8,9	46,55	17,812	PF03009.16	GDPD	224,2	2,10E-66	CL0384
ARUBRA_DN3967_c0_g1_i1_4	3	17	22,308	19,886	PF00076.21	RRM_1	74,6	3,80E-21	CL0221
ARUBRA_DN26097_c0_g1_i1_3	2	39,7	8,9162	12,882	PF00332.17	Glyco_hydro_17	63,7	1,80E-17	CL0058
ARHOMBI_DN2700_c0_g2_i1_5	3	10,6	30,958	25,713	PF02861.19	Clp_N	32,6	6,00E-08	No_clan

ARHOMBI_DN8688_c0_g1_i1_2	2	21,6	12,532	11,049	PF05470.11	eIF-3c_N	88,1	3,90E-25	No_clan
ARHOMBI_DN15526_c0_g1_i1_1	3	8,2	41,364	27,679	PF02893.19	GRAM	103,6	5,00E-30	CL0266
ARHOMBI_DN12805_c0_g1_i1_1	1	8,6	13,557	12,575					
ARHOMBI_DN10876_c0_g1_i1_3	2	20,7	9,839	12,901					
ARUBRA_DN5971_c0_g1_i1_2	3	11	30,588	30,026	PF00085.19	Thioredoxin	103,9	3,40E-30	CL0172
ARHOMBI_DN18415_c0_g1_i1_4	1	27,5	7,4083	7,594					
ARUBRA_DN4814_c0_g1_i2_6	2	12,9	34,291	7,1391	PF00314.16	Thaumatin	206,8	3,10E-61	CL0293
ARUBRA_DN21824_c0_g1_i1_6	1	9,7	23,534	7,0223					
ARUBRA_DN10839_c0_g1_i1_5	4	34,9	18,493	7,2314					
ARUBRA_DN4729_c0_g1_i1_2	2	32,8	13,798	14,672	PF00107.25	ADH_zinc_N	97,2	6,00E-28	CL0063
ARUBRA_DN20854_c0_g1_i1_1	2	9,2	23,866	12,643					
ARUBRA_DN8756_c0_g1_i1_5	2	38	7,5675	11,673	PF00920.20	ILVD_EDD	80,5	9,40E-23	No_clan
ARUBRA_DN18126_c0_g1_i1_2	1	5,7	18,722	40,588					
ARUBRA_DN7462_c0_g1_i1_6	1	13,6	13,516	6,3541					
ARUBRA_DN18563_c0_g1_i1_3	3	29,1	16,217	18,284	PF00501.27	AMP-binding	98,1	4,00E-28	CL0378
ARUBRA_DN10939_c0_g1_i1_3	2	22,6	14,892	13,248	PF00862.18	Sucrose_synth	234,7	1,50E-69	CL0113
ARHOMBI_DN21563_c0_g1_i1_5	2	11,6	24,366	12,03	PF01602.19	Adaptin_N	217,6	2,50E-64	CL0020
ARHOMBI_DN6102_c0_g2_i1_1	4	16,1	29,178	25,236	PF02431.14	Chalcone	356,7	2,50E-107	CL0560
ARUBRA_DN9246_c0_g1_i1_4	1	6,4	19,021	17,135	PF01583.19	APS_kinase	231,7	3,40E-69	CL0023
ARHOMBI_DN26256_c0_g1_i1_3	1	14,3	8,5566	6,5089					
ARUBRA_DN22761_c0_g1_i1_6	1	9,1	17,825	6,9079	PF00107.25	ADH_zinc_N	57,2	1,50E-15	CL0063
ARHOMBI_DN20260_c0_g1_i1_3	2	19,3	21,289	12,121	PF12999.6	PRKCSH-like	125,6	1,70E-36	No_clan
ARHOMBI_DN19503_c0_g1_i1_3	1	7,5	21,896	6,4534	PF01150.16	GDA1_CD39	57,3	1,00E-15	CL0108
ARHOMBI_DN10131_c0_g1_i1_2	2	13	18,228	13,378	PF03255.13	ACCA	73,3	1,70E-20	CL0127
ARHOMBI_DN19928_c0_g1_i1_4	3	28,4	12,938	17,924	PF01344.24	Kelch_1	39,4	3,00E-10	CL0186
ARUBRA_DN1385_c0_g1_i1_2	4	11,4	65,244	24,396	PF00155.20	Aminotran_1_2	125,7	2,20E-36	CL0061
ARHOMBI_DN2055_c1_g1_i1_1	3	68,2	9,9682	6,6055	PF00022.18	Actin	85,4	2,70E-24	CL0108
ARUBRA_DN22675_c0_g1_i1_5	1	8,6	19,038	6,8702					
ARHOMBI_DN1643_c0_g1_i1_5	3	17,1	32,081	13,26	PF00004.28	AAA	151,8	1,30E-44	CL0023
ARHOMBI_DN1170_c0_g1_i1_5	2	10,2	30,374	7,0929	PF05529.11	Bap31	54,9	7,70E-15	No_clan
ARHOMBI_DN22076_c0_g1_i1_3	1	12,2	12,327	34,262					
ARUBRA_DN16830_c0_g1_i1_1	2	9,7	40,401	13,366	PF01956.15	DUF106	174,4	1,50E-51	CL0376

ARUBRA_DN17659_c0_g1_i1_1	3	16,1	27,18	16,553	PF09409.9	PUB	80,2	7,10E-23	No_clan
ARHOMBI_DN21263_c0_g1_i1_6	2	18,5	20,633	15,851	PF01593.23	Amino_oxidase	102,6	2,80E-29	CL0063
ARHOMBI_DN22368_c0_g1_i1_3	2	21,1	16,23	13,052					
ARHOMBI_DN20690_c0_g1_i1_2	2	18,7	24,344	15,241	PF03141.15	Methyltransf_29	228,4	1,30E-67	CL0063
ARUBRA_DN2528_c0_g1_i1_6	1	9,6	19,713	8,2355					
ARHOMBI_DN1508_c0_g1_i1_5	2	8,2	30,235	10,96	PF01399.26	PCI	58,1	9,90E-16	CL0123
ARHOMBI_DN4881_c0_g1_i1_3	2	5,8	50,285	184,9	PF00076.21	RRM_1	30,2	2,60E-07	CL0221
ARHOMBI_DN24692_c0_g1_i1_6	2	21,9	16,428	11,351	PF00118.23	Cpn60_TCP1	149,4	1,20E-43	No_clan
ARUBRA_DN51_c0_g1_i1_2	3	17,8	23,431	12,523	PF00244.19	14.03.2003	215,8	4,60E-64	No_clan
ARUBRA_DN24099_c0_g1_i1_5	2	11,5	20,684	16,292	PF00156.26	Pribosyltran	81,6	3,90E-23	CL0533
ARUBRA_DN7587_c0_g1_i1_6	1	10	23,632	7,6114					
ARUBRA_DN5361_c0_g1_i1_2	1	5,3	20,398	116,44	PF06747.12	CHCH	38,3	9,00E-10	CL0351
ARHOMBI_DN2590_c0_g1_i1_1	4	21,6	24,466	78,181	PF00071.21	Ras	124,3	3,10E-36	CL0023
ARHOMBI_DN12163_c0_g1_i1_3	5	45,5	13,972	6,6304	PF00004.28	AAA	105,6	2,40E-30	CL0023
ARHOMBI_DN15490_c0_g1_i1_6	2	9,9	23,086	12,596	PF00534.19	Glycos_transf_1	39,5	3,90E-10	CL0113
ARUBRA_DN24778_c0_g1_i1_1	1	24	11,844	6,437	PF00232.17	Glyco_hydro_1	128,3	2,50E-37	CL0058
ARUBRA_DN20929_c0_g1_i1_2	1	8	19,715	7,2617	PF01106.16	NifU	102,3	1,10E-29	CL0232
ARUBRA_DN16965_c0_g1_i1_3	2	20,8	12,299	12,96	PF04752.11	ChaC	112	3,00E-32	CL0278
ARUBRA_DN20307_c0_g1_i1_3	2	31,8	9,0798	13,905					
ARHOMBI_DN24428_c0_g1_i1_4	2	16	14,836	30,33					
ARUBRA_DN2923_c0_g2_i1_5	2	11,5	38,633	17,47	PF00227.25	Proteasome	158,2	1,50E-46	CL0052
ARHOMBI_DN581_c0_g1_i1_2	3	12,3	34,301	21,134	PF00635.25	Motile_Sperm	94,1	3,90E-27	CL0556
ARHOMBI_DN6817_c0_g1_i1_1	2	6,7	39,587	12,584	PF02678.15	Pirin	112,6	7,50E-33	CL0029
ARUBRA_DN10993_c0_g1_i1_2	2	27,9	13,544	13,579	PF00501.27	AMP-binding	96,9	8,90E-28	CL0378
ARUBRA_DN12715_c0_g1_i1_2	1	11,5	14,156	6,712	PF13620.5	CarboxypepD_reg	39,6	4,40E-10	CL0287
ARUBRA_DN9682_c0_g1_i1_4	2	24,8	15,803	13,783	PF08543.11	Phos_pyr_kin	53,9	1,50E-14	CL0118
ARHOMBI_DN18725_c0_g1_i1_3	3	31,8	14,154	19,338	PF01394.19	Clathrin_propel	44,2	1,20E-11	CL0020
ARHOMBI_DN20294_c0_g1_i1_3	1	15,2	10,761	6,8744					
ARHOMBI_DN4086_c0_g1_i1_4	3	10,5	36,398	17,638	PF03665.12	UPF0172	190,5	2,90E-56	CL0366
ARUBRA_DN19093_c0_g1_i1_3	2	10,5	22,764	12,471	PF08712.10	Nfu_N	87,9	3,20E-25	No_clan
ARHOMBI_DN13465_c0_g2_i1_6	3	24,3	16,196	17,475	PF00107.25	ADH_zinc_N	70,6	1,10E-19	CL0063
ARUBRA_DN20855_c0_g1_i1_2	1	10,9	19,485	6,8294					
ARUBRA_DN2934_c0_g2_i2_4	3	11,7	41,91	18,868	PF05670.12	DUF814	80,8	5,50E-23	No_clan

ARUBRA_DN17957_c0_g1_i1_3	2	34,6	9,1102	14,635	PF05822.11	UMPH-1	78,1	6,70E-22	CL0137
ARUBRA_DN189_c0_g2_i1_5	3	8,6	51,905	18,078	PF01063.18	Aminotran_4	143,6	7,50E-42	No_clan
ARUBRA_DN12373_c0_g1_i1_4	5	26,8	30,158	29,991	PF00091.24	Tubulin	134,4	5,00E-39	CL0566
ARHOMBI_DN26479_c0_g1_i1_3	1	11,5	11,875	103,3	PF00300.21	His_Phos_1	30,2	3,10E-07	CL0071
ARUBRA_DN1156_c0_g1_i1_5	2	12,4	28,794	13,005	PF03643.14	Vps26	225,5	6,00E-67	CL0135
ARHOMBI_DN715_c0_g1_i1_6	5	22,4	38,931	30,384	PF00255.18	GSHPx	144,5	6,90E-43	CL0172
ARUBRA_DN18388_c0_g1_i1_5	3	44,5	12,402	152,35	PF00251.19	Glyco_hydro_32N	70,9	1,30E-19	CL0143
ARUBRA_DN24939_c0_g1_i1_6	1	20,5	9,8581	7,0823	PF13855.5	LRR_8	38,1	8,80E-10	CL0022
ARUBRA_DN1579_c0_g1_i1_3	3	19,6	26,019	14,03	PF00719.18	Pyrophosphatase	177,1	2,00E-52	No_clan
ARUBRA_DN3088_c1_g1_i1_2	2	9	29,631	6,7411	PF00118.23	Cpn60_TCP1	251,9	1,00E-74	No_clan
ARUBRA_DN18995_c0_g1_i1_4	2	20,2	12,597	11,531					
ARUBRA_DN6428_c0_g1_i1_3	1	12,7	20,411	7,9797	PF05116.12	S6PP	56,8	2,20E-15	CL0137
ARUBRA_DN24802_c0_g1_i1_6	2	34,2	7,8127	11,614					
ARHOMBI_DN6811_c0_g1_i1_3	2	22,4	16,227	12,778	PF00311.16	PEPcase	211,6	1,70E-62	CL0151
ARHOMBI_DN23413_c0_g1_i1_2	1	9,2	13,539	54,976	PF08324.10	PUL	72,5	3,00E-20	No_clan
ARUBRA_DN26636_c0_g1_i1_3	1	13,6	10,418	6,46	PF14533.5	USP7_C2	70,5	1,40E-19	CL0072
ARUBRA_DN24535_c0_g1_i1_1	3	48,2	12,581	13,267	PF01459.21	Porin_3	79,8	2,00E-22	CL0193
ARUBRA_DN5752_c0_g1_i1_3	2	20,7	16,055	13,599					
ARUBRA_DN12277_c0_g1_i1_4	1	12,4	11,227	17,623	PF13943.5	WPP	45,2	8,60E-12	No_clan
ARUBRA_DN12763_c0_g1_i1_6	2	57,9	7,9399	37,799	PF01213.18	CAP_N	34,9	1,00E-08	No_clan
ARUBRA_DN23296_c0_g1_i1_1	2	21,8	16,121	13,438	PF00995.22	Sec1	63,8	1,60E-17	No_clan
ARHOMBI_DN6174_c0_g1_i1_5	1	2,3	67,099	7,1721	PF00483.22	NTP_transferase	245,1	7,10E-73	CL0110
ARHOMBI_DN3360_c0_g1_i1_6	2	13	22,226	12,453	PF05047.15	L51_S25_CI-B8	52,4	3,40E-14	CL0172
ARUBRA_DN4576_c0_g3_i1_3	4	22,4	23,249	14,368					
ARUBRA_DN27180_c0_g1_i1_6	2	31,8	9,4948	30,794					
ARUBRA_DN3154_c0_g1_i1_6	6	17,3	31,568	49,128	PF02298.16	Cu_bind_like	76,4	1,20E-21	CL0026
ARUBRA_DN6360_c0_g1_i1_2	4	15,6	51,344	29,009	PF00076.21	RRM_1	48	7,60E-13	CL0221
ARUBRA_DN24250_c0_g1_i1_6	1	15,3	8,1819	6,2028					
ARUBRA_DN9113_c0_g1_i1_5	2	25,2	13,715	12,366					
ARUBRA_DN18999_c0_g1_i1_5	7	30,2	31,369	6,4819	PF00736.18	EF1_GNE	110,8	2,60E-32	No_clan
ARUBRA_DN23874_c0_g1_i1_1	2	12,9	17,229	13,179	PF01012.20	ETF	93,7	1,10E-26	CL0039
ARHOMBI_DN8339_c0_g1_i1_2	1	9,4	17,11	8,8387	PF00005.26	ABC_tran	62,7	4,70E-17	CL0023
ARHOMBI_DN1833_c0_g1_i1_4	3	25,2	14,182	10,829	PF00347.22	Ribosomal_L6	51,7	9,70E-14	No_clan

ARHOMBI_DN187_c0_g2_i1_1	2	8,6	37,733	14,388	PF00005.26	ABC_tran	126,9	6,90E-37	CL0023
ARHOMBI_DN18091_c0_g1_i1_1	1	8,5	13,121	98,262	PF04558.14	tRNA_synt_1c_R1	99,4	1,90E-28	No_clan
ARHOMBI_DN11853_c0_g1_i1_1	3	25,1	20,997	6,4571	PF06957.10	COPI_C	112,4	2,00E-32	CL0020
ARUBRA_DN898_c0_g1_i1_1	1	5	27,267	6,3427	PF01636.22	APH	59,1	5,50E-16	CL0016
ARHOMBI_DN5055_c0_g1_i1_3	2	29,5	15,101	11,508	PF00012.19	HSP70	50,3	1,00E-13	CL0108
ARUBRA_DN21162_c0_g1_i1_4	3	15,1	37,497	23,393	PF00443.28	UCH	85,7	3,30E-24	CL0125
ARUBRA_DN19451_c0_g1_i1_2	1	13,9	9,3824	6,4278					
ARHOMBI_DN17114_c0_g1_i1_5	2	6,7	42,041	11,485	PF04815.14	Sec23_helical	38,2	9,00E-10	No_clan
ARHOMBI_DN4946_c0_g1_i2_4	2	5,7	35,191	12,613	PF03227.15	GILT	105	2,10E-30	CL0172
ARUBRA_DN9563_c0_g1_i1_2	2	12,7	13,135	78,691	PF00226.30	DnaJ	93,6	5,60E-27	CL0392
ARUBRA_DN3083_c0_g1_i1_4	2	9,5	38,808	12,425	PF02453.16	Reticulon	197,6	1,00E-58	No_clan
ARUBRA_DN10864_c0_g1_i1_2	1	25,6	9,6275	7,1376	PF02338.18	OTU	63,9	1,80E-17	CL0125
ARHOMBI_DN8832_c0_g1_i1_6	5	24,4	30,018	29,84	PF01433.19	Peptidase_M1	44,4	1,20E-11	CL0126
ARHOMBI_DN16126_c0_g1_i1_1	2	26,2	16,705	6,252	PF02359.17	CDC48_N	83,5	8,20E-24	CL0332
ARUBRA_DN11418_c0_g1_i1_5	3	13,7	37,256	19,64	PF00118.23	Cpn60_TCP1	207,5	3,00E-61	No_clan
ARUBRA_DN711_c0_g1_i1_2	2	11,3	30,34	12,77	PF01992.15	vATP-synt_AC39	214,9	1,90E-63	No_clan
ARUBRA_DN23248_c0_g1_i1_5	1	7,3	12,2	-2	PF00069.24	Pkinase	29,9	3,30E-07	CL0016
ARHOMBI_DN11424_c0_g1_i1_1	3	22,9	15,82	17,263					
ARUBRA_DN13078_c0_g1_i1_4	1	12,1	14,34	7,3432					
ARUBRA_DN22748_c0_g1_i1_3	3	40,5	8,9801	18,242	PF02127.14	Peptidase_M18	39,9	2,10E-10	CL0035
ARUBRA_DN19446_c0_g1_i1_1	2	17,1	25,438	13,31	PF00202.20	Aminotran_3	161,7	1,90E-47	CL0061
ARHOMBI_DN25338_c0_g1_i1_6	1	18,5	9,2703	8,1949					
ARUBRA_DN1375_c0_g1_i1_4	3	4,2	111,09	18,285	PF02037.26	SAP	37	1,80E-09	CL0306
ARHOMBI_DN5366_c0_g1_i2_2	2	6,4	37,895	12,332	PF05648.13	PEX11	165,4	1,20E-48	No_clan
ARUBRA_DN26151_c0_g1_i1_1	1	11,4	8,5572	11,758					
ARHOMBI_DN16439_c0_g1_i1_3	3	10,9	42,493	17,327	PF02383.17	Syja_N	78,8	4,20E-22	CL0031
ARHOMBI_DN17772_c0_g1_i1_2	2	32,1	9,7959	13,88	PF01496.18	V_ATPase_I	34,2	6,40E-09	No_clan
ARHOMBI_DN3967_c0_g1_i1_1	4	15,7	30,965	51,814	PF13419.5	HAD_2	84,6	8,20E-24	CL0137
ARUBRA_DN18178_c0_g1_i1_2	2	26,5	13,538	14,915	PF08375.10	Rpn3_C	98,4	2,10E-28	No_clan
ARUBRA_DN4925_c0_g1_i1_4	10	28,9	47,542	6,6624	PF00883.20	Peptidase_M17	385,4	1,70E-115	CL0035
ARUBRA_DN14063_c0_g1_i1_3	1	25,2	12,817	9,7476	PF04053.13	Coatomer_WDAD	56,5	2,30E-15	CL0186
ARHOMBI_DN2499_c0_g1_i1_5	2	7	30,619	10,7					

ARUBRA_DN2486_c0_g1_i1_3	2	31	14,19	6,2265	PF16363.4	GDP_Man_Dehyd	27,9	1,30E-06	CL0063
ARUBRA_DN9169_c0_g1_i1_1	1	13	10,981	6,4603					
ARHOMBI_DN2036_c0_g2_i1_1	2	6,7	32,345	24,526	PF04969.15	CS	37,5	3,30E-09	CL0190
ARUBRA_DN20749_c0_g1_i1_4	1	23,5	7,6194	6,2992					
ARHOMBI_DN13970_c0_g1_i1_4	2	36,6	8,0775	11,83	PF05470.11	eIF-3c_N	64,6	5,30E-18	No_clan
ARHOMBI_DN16110_c0_g1_i1_4	1	15,7	9,3367	6,6686	PF00069.24	Pkinase	96	2,10E-27	CL0016
ARUBRA_DN16649_c0_g1_i1_5	1	5,4	30,331	6,6958	PF06964.11	Alpha-L-AF_C	130,8	4,90E-38	CL0369
ARHOMBI_DN26305_c0_g1_i1_3	2	26,4	10,346	6,5427					
ARUBRA_DN7710_c0_g1_i1_3	8	30,3	42,72	8,0926	PF08442.9	ATP-grasp_2	80,8	9,00E-23	CL0179
ARUBRA_DN9775_c0_g1_i1_2	2	21,8	12,387	11,224					
ARUBRA_DN9988_c0_g1_i1_3	1	25	9,6059	7,8691					
ARHOMBI_DN18064_c0_g1_i1_4	1	27,9	7,0031	7,7104	PF13840.5	ACT_7	37,5	1,40E-09	CL0070
ARHOMBI_DN4801_c0_g1_i1_1	5	12,4	51,365	13,939	PF06273.10	eIF-4B	580,3	4,00E-174	No_clan
ARUBRA_DN5397_c0_g1_i1_4	1	27	8,1635	7,2611					
ARHOMBI_DN3803_c0_g2_i1_6	1	15,1	7,6849	6,3171					
ARUBRA_DN4646_c0_g1_i1_4	2	16,7	20,258	17,623	PF05899.11	Cupin_3	101,1	1,90E-29	CL0029
ARUBRA_DN16654_c0_g1_i1_4	1	14	21,199	9,3521	PF01532.19	Glyco_hydro_47	164,6	3,40E-48	CL0059
ARUBRA_DN20972_c0_g1_i1_2	2	11,3	32,266	12,255	PF03141.15	Methyltransf_29	254,4	1,70E-75	CL0063
ARHOMBI_DN23602_c0_g1_i1_6	1	9,6	15,415	6,3786	PF14686.5	fn3_3	100,2	3,70E-29	CL0287
ARUBRA_DN20900_c0_g1_i1_2	3	18,2	20,626	11,77	PF03224.13	V-ATPase_H_N	124,2	5,90E-36	CL0020
ARUBRA_DN17183_c0_g1_i1_5	2	13,9	32,312	14,047	PF02771.15	Acyl-CoA_dh_N	121,1	3,20E-35	CL0544
ARHOMBI_DN3229_c0_g1_i1_4	3	16	19,061	17,606					
ARUBRA_DN12858_c0_g1_i1_4	1	17,5	12,717	11,957	PF01145.24	Band_7	30,4	3,20E-07	CL0433
ARUBRA_DN20_c0_g1_i1_4	3	23,7	16,615	61,145	PF12799.6	LRR_4	36,4	4,30E-09	CL0022
ARUBRA_DN2891_c0_g1_i1_5	1	7,7	16,616	6,4659	PF00118.23	Cpn60_TCP1	50,3	1,40E-13	No_clan
ARHOMBI_DN4641_c0_g1_i1_6	2	8,5	40,986	15,502	PF01105.23	EMP24_GP25L	108,9	2,60E-31	CL0521
ARUBRA_DN5439_c0_g1_i1_5	3	19,3	26,279	18,153	PF13640.5	2OG-FeII_Oxy_3	77,6	9,50E-22	CL0029
ARUBRA_DN2788_c0_g1_i1_6	2	19,1	20,511	19,221					
ARHOMBI_DN24746_c0_g1_i1_1	1	6,3	20,077	6,5949					
ARUBRA_DN12422_c0_g1_i1_2	1	12,5	10,536	6,7975	PF07859.12	Abhydrolase_3	51	1,50E-13	CL0028
ARUBRA_DN19709_c0_g1_i1_5	3	10	33,286	17,133	PF01213.18	CAP_N	126,7	1,20E-36	No_clan

ARUBRA_DN4950_c1_g1_i1_4	2	8,9	41,684	51,398	PF00332.17	Glyco_hydro_17	415,8	1,10E-124	CL0058
ARHOMBI_DN8627_c0_g1_i1_4	2	27,8	10,36	12,166	PF00920.20	ILVD_EDD	116,5	1,20E-33	No_clan
ARHOMBI_DN8139_c0_g1_i1_2	2	27,7	18,196	12,098	PF05193.20	Peptidase_M16_C	48,2	1,10E-12	CL0094
ARUBRA_DN9097_c0_g1_i1_3	1	10,5	27,745	8,1002					
ARUBRA_DN23250_c0_g1_i1_1	2	27,6	12,523	12,348					
ARHOMBI_DN13828_c0_g1_i1_2	1	16,2	11,251	8,6984	PF00113.21	Enolase_C	89,2	2,50E-25	CL0256
ARHOMBI_DN16373_c0_g1_i1_2	1	7,2	29,114	7,2454	PF00160.20	Pro_isomerase	41,6	1,30E-10	CL0475
ARUBRA_DN12629_c0_g1_i1_4	1	20	11,951	8,1281					
ARHOMBI_DN6215_c0_g1_i2_2	2	8,3	36,36	12,13	PF03937.15	Sdh5	79,3	1,50E-22	No_clan
ARUBRA_DN4706_c0_g1_i1_4	1	3,2	38,183	6,288					
ARUBRA_DN6348_c0_g1_i1_2	3	13,8	29,441	19,616	PF00076.21	RRM_1	53,4	1,60E-14	CL0221
ARHOMBI_DN4431_c0_g3_i1_1	5	29,1	27,549	29,223	PF00071.21	Ras	223,6	9,00E-67	CL0023
ARHOMBI_DN2426_c0_g1_i1_5	1	6,7	18,869	102,99	PF01187.17	MIF	88,3	3,80E-25	CL0082
ARUBRA_DN2608_c0_g1_i1_4	1	4,8	36,804	6,4768	PF01842.24	ACT	44,9	6,30E-12	CL0070
ARHOMBI_DN5630_c0_g2_i1_5	2	19,8	21,357	11,377	PF01435.17	Peptidase_M48	57	2,00E-15	CL0126
ARHOMBI_DN2188_c0_g1_i1_4	2	9,2	39,371	12,513	PF01055.25	Glyco_hydro_31	100,3	1,30E-28	CL0058
ARUBRA_DN16537_c0_g1_i1_2	2	7,7	46,138	13,505	PF04321.16	RmlD_sub_bind	48,8	4,70E-13	CL0063
ARHOMBI_DN6250_c0_g2_i3_5	1	4,8	29,631	6,5467	PF01657.16	Stress-antifung	56,8	2,50E-15	No_clan
ARUBRA_DN12906_c0_g1_i1_4	1	14,7	11,177	7,0944					
ARHOMBI_DN15675_c0_g1_i1_3	3	40,7	15,851	6,2152	PF00118.23	Cpn60_TCP1	120,1	9,40E-35	No_clan
ARHOMBI_DN20830_c0_g1_i1_1	2	22,5	16,579	14,828	PF00271.30	Helicase_C	72,4	3,30E-20	CL0023
ARHOMBI_DN6132_c0_g5_i1_3	2	17,5	13,762	23,565	PF16845.4	SQAPI	76,5	1,40E-21	CL0121
ARHOMBI_DN13938_c0_g1_i1_3	2	27,5	10,846	12,349					
ARHOMBI_DN343_c0_g2_i1_6	3	11,3	34,484	18,217	PF01412.17	ArfGap	138,2	1,10E-40	No_clan
ARHOMBI_DN20204_c0_g1_i1_6	1	11,8	16,48	6,437					
ARHOMBI_DN5653_c0_g1_i1_4	3	12,4	39,058	17,918	PF00187.18	Chitin_bind_1	53,3	2,60E-14	No_clan
ARUBRA_DN9043_c0_g1_i1_6	1	14,3	9,6912	6,6105	PF00350.22	Dynamin_N	60,6	1,70E-16	CL0023
ARUBRA_DN8452_c0_g1_i1_1	2	15,2	25,387	12,931	PF04909.13	Amidohydro_2	77,7	1,20E-21	CL0034
ARHOMBI_DN5207_c0_g1_i1_5	2	6,8	35,876	6,2682	PF04734.12	Ceramidase_alk	74,3	7,10E-21	No_clan
ARHOMBI_DN5473_c0_g1_i1_2	2	13,9	24,858	12,651					
ARHOMBI_DN15547_c1_g1_i1_2	2	7,7	44,959	46,358	PF03127.13	GAT	46,1	4,20E-12	No_clan
ARUBRA_DN21709_c0_g1_i1_1	1	26,4	8,2863	6,7109					

ARUBRA_DN7051_c0_g1_i1_2	2	11,9	20,629	11,664	PF00378.19	ECH_1	108,2	3,70E-31	CL0127
ARUBRA_DN25464_c0_g1_i1_1	2	51,9	8,6279	13,413	PF00004.28	AAA	31,6	1,70E-07	CL0023
ARHOMBI_DN4589_c0_g1_i1_6	1	6,1	23,49	35,196	PF04398.11	DUF538	117,2	4,30E-34	No_clan
ARUBRA_DN931_c0_g1_i1_3	1	3,7	30,303	160,37	PF00462.23	Glutaredoxin	69,9	1,50E-19	CL0172
ARHOMBI_DN10963_c0_g1_i1_2	2	24,5	9,9705	18,859					
ARUBRA_DN14101_c0_g1_i1_6	2	28,3	10,89	13,173					
ARHOMBI_DN18821_c0_g1_i1_3	2	26,4	15,236	14,942					
ARHOMBI_DN14763_c0_g1_i1_1	2	47,3	12,153	11,173					
ARUBRA_DN7233_c0_g1_i1_1	2	20,7	12,858	11,553					
ARUBRA_DN3582_c0_g2_i1_3	2	19,5	25,038	13,542					
ARUBRA_DN3740_c0_g1_i1_2	4	26	16,475	6,4057	PF00637.19	Clathrin	75,7	2,90E-21	CL0020
ARUBRA_DN2116_c0_g1_i1_1	1	4,9	37,6	7,644	PF13266.5	DUF4057	84,8	7,70E-24	No_clan
ARHOMBI_DN6367_c0_g1_i1_3	1	21,9	15,169	11,36	PF00118.23	Cpn60_TCP1	78,4	3,90E-22	No_clan
ARUBRA_DN9714_c0_g1_i1_3	2	37,5	8,749	12,663	PF08033.11	Sec23_BS	32,7	8,80E-08	No_clan
ARHOMBI_DN5629_c0_g1_i1_3	3	3,6	132,93	18,857	PF01061.23	ABC2_membrane	147	4,50E-43	CL0181
ARUBRA_DN17225_c0_g1_i1_6	2	13,3	25,42	12,949					
ARUBRA_DN5760_c0_g1_i1_1	9	17,6	78,545	49,207	PF00076.21	RRM_1	72	2,50E-20	CL0221
ARHOMBI_DN13303_c0_g1_i1_5	2	19,6	21,209	14,889					
ARHOMBI_DN44_c0_g1_i1_5	3	8,8	50,15	17,951	PF00155.20	Aminotran_1_2	173	9,20E-51	CL0061
ARUBRA_DN2012_c0_g1_i1_3	2	4,7	56,159	11,922	PF00483.22	NTP_transferase	96	2,50E-27	CL0110
ARHOMBI_DN18373_c0_g1_i1_1	3	18,8	26,712	22,446	PF01588.19	tRNA_bind	99,1	1,10E-28	CL0021
ARUBRA_DN22899_c0_g1_i1_4	2	14,2	24,436	16,68	PF00005.26	ABC_tran	62,6	5,10E-17	CL0023
ARUBRA_DN19779_c0_g1_i1_2	4	8,5	56,441	17,062	PF00270.28	DEAD	144,1	3,30E-42	CL0023
ARHOMBI_DN2168_c0_g1_i1_5	3	20	26,034	-2	PF00108.22	Thiolase_N	237,8	1,10E-70	CL0046
ARHOMBI_DN18268_c0_g1_i1_5	2	39,8	10,408	13,167	PF00183.17	HSP90	108,9	2,60E-31	No_clan
ARUBRA_DN20895_c0_g1_i1_4	1	18,2	8,6619	6,3259	PF02383.17	Syja_N	42,7	4,00E-11	CL0031
ARHOMBI_DN9816_c0_g1_i1_3	1	23,9	7,7208	6,9972					
ARUBRA_DN6711_c0_g1_i1_1	2	8,8	23,275	13,404	PF00828.18	Ribosomal_L27A	75,8	4,10E-21	CL0588
ARUBRA_DN1256_c0_g2_i1_1	2	8	33,51	11,251	PF01145.24	Band_7	88,3	5,40E-25	CL0433
ARHOMBI_DN4768_c0_g1_i1_5	1	12,5	19,911	7,9084	PF01487.14	DHquinase_I	129,2	2,60E-37	CL0036
ARUBRA_DN1822_c0_g1_i1_4	3	13,8	45,408	18,383	PF05116.12	S6PP	46,7	2,60E-12	CL0137
ARUBRA_DN2382_c0_g1_i1_2	1	11,7	24,602	6,2416	PF01095.18	Pectinesterase	365,1	1,60E-109	CL0268

ARUBRA_DN6119_c0_g1_i1_1	1	9,6	16,025	6,937	PF02953.14	zf-Tim10_DDP	88,1	2,00E-25	No_clan
ARUBRA_DN19079_c0_g1_i1_2	3	14,3	34,725	18,555	PF02775.20	TPP_enzyme_C	58,1	7,90E-16	CL0254
ARUBRA_DN14154_c0_g1_i1_1	1	22,9	13,013	7,9347	PF00005.26	ABC_tran	24,9	2,20E-05	CL0023
ARUBRA_DN6181_c0_g1_i1_5	1	7,2	29,651	7,16	PF01592.15	NifU_N	182,4	3,30E-54	CL0233
ARHOMBI_DN5536_c0_g1_i1_1	2	4,8	60,555	14,042	PF04043.14	PMEI	69	5,20E-19	No_clan
ARHOMBI_DN25582_c0_g1_i1_3	1	12,7	11,321	25,929	PF04414.11	tRNA_deacylase	23,3	3,70E-05	CL0408
ARUBRA_DN1176_c0_g1_i1_5	1	5,8	25,733	6,8226					
ARUBRA_DN766_c0_g1_i1_6	2	23,9	15,104	12,235					
ARHOMBI_DN20645_c0_g1_i1_1	2	23,3	13,03	12,937	PF00005.26	ABC_tran	32,2	1,20E-07	CL0023
ARHOMBI_DN985_c0_g1_i1_6	2	17,2	31,56	14,233	PF03949.14	Malic_M	196,3	4,90E-58	CL0063
ARUBRA_DN14493_c0_g1_i1_2	1	7,1	19,197	6,3618	PF09334.10	tRNA-synt_1g	39	3,90E-10	CL0039
ARHOMBI_DN18281_c0_g1_i1_5	1	20,6	8,1479	6,9911	PF03909.16	BSD	56,9	1,50E-15	No_clan
ARHOMBI_DN18082_c0_g1_i1_2	2	25,8	17,233	11,274					
ARUBRA_DN3448_c0_g1_i1_6	2	9,1	25,046	11,569	PF01176.18	eIF-1a	74,9	3,00E-21	CL0021
ARHOMBI_DN19564_c0_g1_i1_4	2	12,1	26,898	11,81	PF04815.14	Sec23_helical	86,2	1,10E-24	No_clan
ARHOMBI_DN18202_c0_g1_i1_6	1	9,4	14,473	32,041					
ARUBRA_DN4562_c0_g1_i1_3	2	7,3	36,3	13,324	PF00805.21	Pentapeptide	46,3	2,10E-12	CL0505
ARUBRA_DN756_c0_g1_i1_1	2	4,7	62,521	12,78	PF00009.26	GTP_EFTU	190,5	2,00E-56	CL0023
ARHOMBI_DN5795_c0_g1_i1_6	1	5,1	24,658	6,3797	PF13774.5	Longin	87,2	5,40E-25	No_clan
ARUBRA_DN18766_c0_g1_i1_6	1	11,8	13,747	6,4918	PF13714.5	PEP_mutase	65,6	4,00E-18	CL0151
ARHOMBI_DN11368_c0_g1_i1_5	3	21,6	23,403	19,841	PF01218.17	Coprogen_oxidas	193,2	3,80E-57	No_clan
ARHOMBI_DN19194_c0_g1_i1_2	3	19	24,971	6,245	PF00224.20	PK	119,9	1,00E-34	CL0151
ARUBRA_DN21311_c0_g1_i1_6	1	29	7,9398	7,4946					
ARUBRA_DN19687_c0_g1_i1_4	1	5,1	26,614	6,3025	PF05676.12	NDUF_B7	96,8	4,20E-28	CL0351
ARHOMBI_DN1072_c0_g1_i1_2	1	7,3	19,616	7,6426	PF08207.11	EFP_N	69,6	1,50E-19	CL0107
ARHOMBI_DN4606_c0_g2_i1_3	2	24,6	15,648	7,5575	PF00928.20	Adap_comp_sub	126,6	1,00E-36	CL0448
ARHOMBI_DN3865_c0_g1_i1_4	2	13	26,592	10,947	PF01918.20	Alba	67,1	8,30E-19	CL0441
ARHOMBI_DN3210_c0_g1_i1_3	4	30,1	22,798	25,544	PF02996.16	Prefoldin	102,3	1,40E-29	CL0200
ARHOMBI_DN127_c0_g1_i1_4	2	13,5	39,021	14,676					
ARUBRA_DN6664_c0_g1_i1_5	3	12,3	37,742	17,057	PF02466.18	Tim17	46,4	3,80E-12	No_clan
ARUBRA_DN17807_c0_g1_i1_6	2	27,7	9,3035	18,948					
ARHOMBI_DN26518_c0_g1_i1_6	1	19	9,035	6,3891					
ARHOMBI_DN26272_c0_g1_i1_3	3	26,1	14,195	18,247					

ARUBRA_DN24367_c0_g1_i1_3	2	21,3	9,7019	12,348	PF12796.6	Ank_2	45,7	6,70E-12	CL0465
ARHOMBI_DN10852_c0_g1_i1_2	2	21,1	12,914	12,104	PF05633.10	BPS1	141,2	4,00E-41	CL0133
ARUBRA_DN17980_c0_g1_i1_5	2	10,1	44,463	14,455	PF01429.18	MBD	37,2	1,60E-09	CL0081
ARHOMBI_DN178_c0_g2_i1_4	2	6,2	49,476	12,632	PF00887.18	ACBP	94,4	3,40E-27	CL0632
ARUBRA_DN3098_c0_g1_i1_4	3	15,1	45,35	20,013	PF00970.23	FAD_binding_6	109,8	6,10E-32	CL0076
ARHOMBI_DN8417_c0_g1_i1_6	1	11,4	17,712	6,6004					
ARUBRA_DN16531_c0_g1_i1_2	1	13	12,797	6,3939	PF00166.20	Cpn10	77,5	5,60E-22	CL0296
ARUBRA_DN201_c0_g2_i1_4	6	27,3	31,401	8,2436	PF00071.21	Ras	188,2	7,10E-56	CL0023
ARUBRA_DN4976_c0_g1_i1_4	13	38,6	43,075	-2	PF16884.4	ADH_N_2	85,4	2,10E-24	CL0296
ARUBRA_DN22472_c0_g1_i1_1	1	17,2	13,438	7,3004					
ARHOMBI_DN22711_c0_g1_i1_4	1	26,2	9,2329	6,4879					
ARHOMBI_DN5461_c0_g1_i2_3	2	9	38,711	10,952	PF03357.20	Snf7	153,6	3,50E-45	CL0235
ARUBRA_DN1871_c0_g1_i1_5	3	15,6	23,914	20,545					
ARHOMBI_DN11140_c0_g1_i1_4	1	18,1	8,8601	6,4501	PF00365.19	PFK	61	1,00E-16	CL0240
ARUBRA_DN23048_c0_g1_i1_5	1	13	22,469	24,125	PF00111.26	Fer2	66,8	1,10E-18	CL0486
ARHOMBI_DN2451_c0_g1_i1_1	1	8,4	19,287	6,3129					
ARUBRA_DN2562_c0_g2_i2_3	2	11,8	23,329	49,706	PF00581.19	Rhodanese	38,9	9,00E-10	CL0031
ARHOMBI_DN20377_c0_g1_i1_1	1	4,7	28,365	6,1986	PF16901.4	DAO_C	109,5	8,90E-32	No_clan
ARUBRA_DN15849_c0_g1_i1_3	2	30,3	8,3733	12,136	PF02136.19	NTF2	45,2	1,10E-11	CL0051
ARUBRA_DN24185_c0_g1_i1_2	2	31,6	10,604	16,395	PF00933.20	Glyco_hydro_3	71,9	5,30E-20	CL0058
ARUBRA_DN3137_c0_g1_i1_1	1	4,1	53,21	6,2905	PF02812.17	ELFV_dehydrog_N	167,1	1,50E-49	CL0603
ARUBRA_DN18794_c0_g1_i1_1	2	18,8	23,556	15,813	PF02880.15	PGM_PMM_III	31,7	1,30E-07	No_clan
ARHOMBI_DN16770_c0_g1_i1_3	1	10,3	16,398	6,4994	PF00171.21	Aldedh	153	8,90E-45	CL0099
ARUBRA_DN8214_c1_g1_i1_2	2	15,1	27,258	17,334					
ARHOMBI_DN5351_c0_g3_i2_2	2	14,8	18,837	11,046					
ARUBRA_DN26670_c0_g1_i1_1	1	23,7	7,6304	8,6107	PF01915.21	Glyco_hydro_3_C	40,9	1,90E-10	No_clan
ARHOMBI_DN14110_c0_g1_i1_4	1	12,7	12,518	6,6816	PF14580.5	LRR_9	51,9	5,70E-14	CL0022
ARHOMBI_DN3010_c0_g2_i1_1	1	11,5	11,724	6,5909					
ARUBRA_DN14051_c0_g1_i1_3	1	18,8	13,136	7,8622	PF02734.16	Dak2	80,9	9,20E-23	No_clan
ARUBRA_DN20086_c0_g1_i1_3	1	6,7	21,538	6,5095					
ARUBRA_DN11076_c0_g1_i1_6	1	8,3	21,112	6,7422	PF04080.12	Per1	100,7	9,80E-29	CL0192
ARHOMBI_DN25990_c0_g1_i1_4	3	18,8	16,832	11,915	PF09280.10	XPC-binding	85,7	1,20E-24	No_clan
ARHOMBI_DN2521_c0_g1_i1_6	2	13,4	27,182	12,462	PF00156.26	Pribosyltran	34,1	1,60E-08	CL0533

ARUBRA_DN3144_c0_g1_i1_5	1	54,2	7,4191	6,1762	PF00627.30	UBA	30,2	2,80E-07	CL0214
ARUBRA_DN524_c0_g2_i1_3	2	3,5	99,804	12,896	PF00564.23	PB1	35,6	6,20E-09	CL0072
ARUBRA_DN4339_c0_g1_i2_1	1	2,8	51,322	6,4827	PF01373.16	Glyco_hydro_14	315,6	4,30E-94	CL0058
ARHOMBI_DN2257_c0_g1_i1_1	2	8,1	43,214	12,037	PF07946.13	DUF1682	246,4	3,90E-73	No_clan
ARUBRA_DN17897_c0_g1_i1_5	1	4,8	33,04	46,344	PF00082.21	Peptidase_S8	51,1	1,00E-13	No_clan
ARHOMBI_DN2123_c0_g2_i1_4	2	15,1	28,193	12,655					
ARUBRA_DN11421_c0_g1_i1_5	1	16,3	10,683	6,3604	PF02817.16	E3_binding	31,8	1,20E-07	No_clan
ARHOMBI_DN13369_c0_g1_i1_6	1	16	10,753	6,4372	PF00205.21	TPP_enzyme_M	86,8	1,00E-24	CL0085
ARUBRA_DN10411_c0_g1_i1_2	1	11,7	13,909	6,5075	PF03690.12	UPF0160	144,8	4,30E-42	No_clan
ARHOMBI_DN5006_c0_g1_i1_1	1	6,2	19,538	6,2096	PF00202.20	Aminotran_3	37,1	1,30E-09	CL0061
ARHOMBI_DN17209_c0_g1_i1_1	2	46,7	8,4437	11,434					
ARUBRA_DN6201_c0_g1_i1_4	2	11,3	22,844	11,421	PF05832.11	DUF846	132	1,40E-38	No_clan
ARHOMBI_DN4317_c0_g1_i1_2	2	7,5	50,122	14,52	PF00155.20	Aminotran_1_2	155	2,80E-45	CL0061
ARHOMBI_DN5264_c0_g1_i2_1	1	3,7	43,465	6,8721	PF00483.22	NTP_transferase	111,8	3,70E-32	CL0110
ARUBRA_DN3956_c0_g2_i2_6	2	8,7	39,904	11,651	PF00248.20	Aldo_ket_red	213,3	3,80E-63	No_clan
ARUBRA_DN7892_c0_g1_i1_4	4	15,4	43,286	25,193	PF00076.21	RRM_1	51,8	4,90E-14	CL0221
ARUBRA_DN5621_c0_g1_i1_1	3	8,3	72,66	17,167	PF00501.27	AMP-binding	262	7,20E-78	CL0378
ARUBRA_DN6290_c0_g1_i1_6	1	3,2	37,556	6,2249	PF01025.18	GrpE	158,4	1,10E-46	No_clan
ARUBRA_DN8437_c0_g1_i1_2	2	16,8	19,542	14,186	PF03357.20	Snf7	62,5	3,30E-17	CL0235
ARHOMBI_DN2197_c0_g1_i1_2	2	33,8	9,2092	12,249					
ARUBRA_DN20773_c0_g1_i1_2	2	26,4	11,732	9,3316	PF02773.15	S-AdoMet_synt_C	67,3	1,30E-18	No_clan
ARUBRA_DN19652_c0_g1_i1_5	1	13,6	11,932	6,4723					
ARUBRA_DN23301_c0_g1_i1_2	2	25	12,785	12,146					
ARHOMBI_DN6000_c0_g1_i1_4	2	5,1	65,215	12,076	PF00026.22	Asp	449,9	4,80E-135	CL0129
ARHOMBI_DN27227_c0_g1_i1_2	1	21,5	8,4065	8,9583					
ARHOMBI_DN3035_c0_g1_i1_2	1	8,2	18,818	6,8482	PF02953.14	zf-Tim10_DDP	71	4,40E-20	No_clan
ARUBRA_DN7465_c0_g1_i1_1	2	31	7,6837	11,993					
ARHOMBI_DN25461_c0_g1_i1_3	2	13,6	21,158	19,412					
ARUBRA_DN23449_c0_g1_i1_4	1	18,1	9,5651	9,3541	PF00108.22	Thiolase_N	27	2,50E-06	CL0046
ARUBRA_DN4751_c0_g1_i2_6	1	6,4	21,419	8,8368	PF00187.18	Chitin_bind_1	54,1	1,40E-14	No_clan
ARHOMBI_DN23037_c0_g1_i1_6	1	12,3	18,181	6,1985	PF01434.17	Peptidase_M41	111,5	3,90E-32	CL0126
ARHOMBI_DN17541_c0_g1_i1_1	2	20,9	12,098	7,3735	PF01717.17	Meth_synt_2	37	2,20E-09	CL0160

ARUBRA_DN10528_c0_g1_i1_4	1	12,4	14,604	7,1868					
ARUBRA_DN13908_c0_g1_i1_4	1	11,6	10,849	6,2096	PF04832.11	SOUL	45	1,10E-11	CL0319
ARHOMBI_DN13282_c0_g1_i1_1	1	18,4	9,845	7,1413	PF00202.20	Aminotran_3	40,9	9,00E-11	CL0061
ARHOMBI_DN3944_c0_g1_i2_2	3	11,9	48,772	19,041	PF00069.24	Pkinase	178,4	1,60E-52	CL0016
ARHOMBI_DN19974_c0_g1_i1_4	2	21,5	14,524	7,243	PF07992.13	Pyr_redox_2	83,4	1,50E-23	CL0063
ARUBRA_DN7017_c0_g1_i1_3	2	7,7	29,709	10,954	PF00701.21	DHDPS	216,6	2,60E-64	CL0036
ARUBRA_DN1910_c0_g1_i1_5	1	4,7	32,508	6,5155	PF02941.14	FeThRed_A	96,8	5,60E-28	CL0610
ARUBRA_DN4277_c0_g1_i1_2	2	6,3	40,618	12,468	PF00571.27	CBS	46,7	3,00E-12	No_clan
ARUBRA_DN22918_c0_g1_i1_6	2	9,8	21,966	11,044	PF01501.19	Glyco_transf_8	216,1	5,30E-64	CL0110
ARUBRA_DN9150_c0_g1_i1_5	2	17,1	18,471	13,69					
ARHOMBI_DN6685_c1_g1_i1_6	1	14,5	14,027	6,2835					
ARHOMBI_DN26281_c0_g1_i1_5	1	14,7	10,691	6,8638	PF00122.19	E1-E2_ATPase	111,4	3,10E-32	No_clan
ARUBRA_DN3358_c0_g1_i2_1	2	18,5	19,889	13,612	PF00579.24	tRNA-synt_1b	52,5	4,20E-14	CL0039
ARHOMBI_DN4457_c0_g1_i1_1	2	11,7	38,234	14,396					
ARHOMBI_DN10001_c0_g1_i1_3	2	23,8	18,279	13,157	PF00800.17	PDT	57,5	1,40E-15	CL0177
ARHOMBI_DN13618_c0_g2_i1_3	1	9,3	15,006	7,0626					
ARHOMBI_DN3625_c0_g1_i1_3	1	6,5	25,25	6,4285	PF00557.23	Peptidase_M24	61,1	1,10E-16	No_clan
ARHOMBI_DN23530_c0_g1_i1_1	2	17,1	13,135	13,529	PF00076.21	RRM_1	32,1	7,00E-08	CL0221
ARUBRA_DN21885_c0_g1_i1_1	1	9	14,714	6,4819	PF07992.13	Pyr_redox_2	48,7	5,40E-13	CL0063
ARHOMBI_DN4759_c0_g2_i1_2	1	4,3	28,596	6,3148	PF03465.14	eRF1_3	127,2	3,60E-37	CL0101
ARHOMBI_DN995_c0_g2_i1_5	3	15,9	28,266	7,2538					
ARHOMBI_DN19127_c0_g1_i1_2	1	26,5	9,1815	7,6577	PF01583.19	APS_kinase	99,1	2,00E-28	CL0023
ARUBRA_DN19640_c0_g1_i1_4	2	14	19,8	11,283	PF01145.24	Band_7	46,9	2,90E-12	CL0433
ARUBRA_DN16258_c0_g1_i1_4	1	20,4	10,985	7,2326	PF02922.17	CBM_48	69,6	2,00E-19	CL0369
ARUBRA_DN19843_c0_g1_i1_1	1	5,2	27,239	6,675					
ARHOMBI_DN4707_c0_g1_i1_6	4	14,6	46,752	23,961	PF04012.11	PspA_IM30	178,1	1,60E-52	CL0235
ARUBRA_DN6269_c0_g1_i1_1	2	36,4	13,076	12,882	PF00793.19	DAHP_synth_1	78,1	4,50E-22	CL0036
ARUBRA_DN14413_c0_g1_i1_1	1	40,8	7,098	7,7662					
ARUBRA_DN23541_c0_g1_i1_3	2	26,2	11,296	14,573	PF05903.13	Peptidase_C97	92,2	2,50E-26	CL0125
ARHOMBI_DN21586_c0_g1_i1_2	2	14,7	19,884	12,923	PF00012.19	HSP70	24,9	4,90E-06	CL0108
ARUBRA_DN20454_c0_g1_i1_1	3	23,1	17,238	6,3033	PF13246.5	Cation_ATPase	47,3	1,50E-12	CL0137
ARUBRA_DN25494_c0_g1_i1_2	1	16,5	9,5818	7,7141					
ARUBRA_DN1726_c0_g1_i1_1	1	5,7	24,967	12,266	PF00583.24	Acetyltransf_1	55,2	7,00E-15	CL0257

ARUBRA_DN4369_c0_g1_i1_1	2	11,8	21,812	11,95	PF06364.11	DUF1068	243,2	1,10E-72	No_clan
ARHOMBI_DN7832_c0_g1_i1_1	2	14,9	18,066	12,054					
ARHOMBI_DN3921_c0_g1_i1_3	1	4,4	39,394	8,6818	PF00702.25	Hydrolase	34,6	2,10E-08	CL0137
ARUBRA_DN729_c0_g1_i1_6	1	4,8	31,563	6,5128	PF00085.19	Thioredoxin	86,4	9,80E-25	CL0172
ARUBRA_DN17182_c0_g1_i1_3	3	16,1	30,206	59,403					
ARUBRA_DN5225_c0_g1_i1_3	2	19,4	15,622	30,992	PF00248.20	Aldo_ket_red	101,1	5,70E-29	No_clan
ARHOMBI_DN26642_c0_g1_i1_3	3	38,8	9,6676	17,865					
ARHOMBI_DN6091_c0_g1_i3_6	1	3,9	38,056	6,1784	PF00067.21	p450	210,5	3,50E-62	No_clan
ARHOMBI_DN2397_c0_g1_i1_3	2	10,3	23,805	11,457	PF13561.5	adh_short_C2	110,5	8,70E-32	CL0063
ARUBRA_DN19230_c0_g1_i1_6	2	11,6	24,37	12,043	PF00583.24	Acetyltransf_1	57,5	1,30E-15	CL0257
ARUBRA_DN10511_c0_g1_i1_4	1	24,6	13,935	6,1854	PF07802.10	GCK	45,3	8,10E-12	No_clan
ARHOMBI_DN18648_c0_g1_i1_2	1	14,1	7,7327	7,6921	PF00156.26	Pribosyltran	27,2	2,20E-06	CL0533
ARHOMBI_DN20035_c0_g1_i1_4	3	23,5	22,689	11,763	PF13015.5	PRKCSH_1	100,3	7,60E-29	CL0226
ARHOMBI_DN22203_c0_g1_i1_5	2	15,7	27,896	12,007					
ARUBRA_DN8245_c0_g1_i1_1	2	38,1	11,389	12,523					
ARUBRA_DN18674_c0_g1_i1_6	1	13,1	12,068	6,5075	PF16969.4	SRP68	73,5	1,70E-20	No_clan
ARUBRA_DN1052_c0_g1_i1_4	4	22,1	22,311	6,6414	PF00071.21	Ras	148	1,60E-43	CL0023
ARUBRA_DN4497_c0_g1_i1_6	1	5,7	26,726	6,756	PF00348.16	polyprenyl_synt	84,3	6,40E-24	CL0613
ARHOMBI_DN23074_c0_g1_i1_6	1	14,4	16,778	7,3889					
ARUBRA_DN17867_c0_g1_i1_4	2	13,8	26,647	15,177					
ARUBRA_DN26207_c0_g1_i1_1	1	34,8	7,507	6,9643					
ARUBRA_DN993_c0_g1_i1_2	3	13,1	28,408	14,15	PF01092.18	Ribosomal_S6e	189,1	2,30E-56	No_clan
ARUBRA_DN5001_c0_g1_i1_4	1	2,2	55,74	-2					
ARUBRA_DN16126_c0_g1_i1_1	1	4,5	44,878	-2					
ARUBRA_DN18434_c0_g1_i1_5	1	7,1	23,628	6,3997	PF13883.5	Pyrid_oxidase_2	146,7	5,70E-43	CL0336
ARHOMBI_DN8608_c0_g1_i1_5	1	4,6	25,568	6,1496	PF00013.28	KH_1	45,8	3,70E-12	CL0007
ARUBRA_DN21219_c0_g1_i1_3	1	28,6	8,5218	6,3255					
ARUBRA_DN10906_c0_g1_i1_1	2	26,1	13,5	13,008					
ARUBRA_DN24391_c0_g1_i1_1	1	14,8	15,745	6,2282					
ARHOMBI_DN6909_c0_g1_i1_1	2	17,7	19,591	6,4241	PF00076.21	RRM_1	58,9	3,00E-16	CL0221
ARUBRA_DN24666_c0_g1_i1_6	1	25,6	8,5159	7,0361	PF01575.18	MaoC_dehydratas	60,2	1,20E-16	CL0050
ARUBRA_DN6630_c0_g1_i1_2	3	17,9	20,615	21,771	PF13472.5	Lipase_GDSL_2	72,2	6,30E-20	CL0264
ARUBRA_DN9370_c0_g1_i1_1	1	22,4	7,7645	14,179	PF06747.12	CHCH	29,4	5,90E-07	CL0351

ARUBRA_DN10905_c0_g1_i1_2	2	29,7	14,042	13,543	PF00009.26	GTP_EFTU	73,2	1,80E-20	CL0023
ARHOMBI_DN13448_c0_g1_i1_5	2	16,1	21,11	11,326	PF01725.15	Ham1p_like	131,6	2,50E-38	CL0269
ARUBRA_DN20978_c0_g1_i1_4	1	15,1	11,731	6,4678	PF02540.16	NAD_synthase	48	7,90E-13	CL0039
ARUBRA_DN6384_c0_g1_i1_5	2	20,4	17,439	12,162	PF08367.10	M16C_assoc	131,5	2,60E-38	CL0094
ARHOMBI_DN981_c0_g1_i1_4	2	9	34,525	12,923	PF00291.24	PALP	88,7	4,20E-25	No_clan
ARUBRA_DN22585_c0_g1_i1_2	1	14,9	14,94	7,5448	PF02774.17	Semialdhyde_dhC	91,9	4,80E-26	CL0139
ARHOMBI_DN4343_c0_g1_i1_6	2	10,8	46,592	15,645	PF05093.12	CIAPIN1	57	2,10E-15	No_clan
ARHOMBI_DN796_c0_g1_i1_1	1	24,2	10,29	20,229	PF01704.17	UDPGP	32,8	2,60E-08	CL0110
ARUBRA_DN3285_c0_g1_i1_2	3	19,5	23,051	11,483	PF04667.16	Endosulfine	85,6	1,70E-24	No_clan
ARUBRA_DN5446_c0_g1_i1_1	2	19,8	17,712	10,944	PF08502.9	LeuA_dimer	105,9	1,30E-30	No_clan
ARUBRA_DN10803_c0_g1_i1_2	2	14,7	19,664	12,129	PF00224.20	PK	136,9	6,90E-40	CL0151
ARUBRA_DN16402_c0_g1_i1_6	1	27,5	8,7038	7,4246	PF16363.4	GDP_Man_Dehyd	59,6	3,00E-16	CL0063
ARUBRA_DN19030_c0_g1_i1_1	1	19,4	12,15	6,7793					
ARHOMBI_DN6155_c0_g1_i1_1	3	13,7	45,992	17,279	PF08241.11	Methyltransf_11	71	9,20E-20	CL0063
ARUBRA_DN13110_c0_g1_i1_1	1	14,6	9,1684	6,1933	PF13419.5	HAD_2	29,4	7,10E-07	CL0137
ARUBRA_DN25449_c0_g1_i1_2	1	15	8,5346	24,001					
ARHOMBI_DN4728_c0_g3_i1_1	2	5,7	55,378	13,105	PF04499.14	SAPS	81,7	4,40E-23	No_clan
ARHOMBI_DN6142_c0_g1_i3_4	2	5,9	39,24	11,342	PF01070.17	FMN_dh	389,2	1,50E-116	CL0036
ARHOMBI_DN5011_c0_g1_i1_4	3	12,4	44,746	19,011					
ARHOMBI_DN7836_c0_g1_i1_2	2	6	40,782	6,1933	PF08240.11	ADH_N	36,3	3,90E-09	CL0296
ARHOMBI_DN4465_c0_g1_i1_1	2	13,9	39,204	6,5629	PF03141.15	Methyltransf_29	300,6	1,70E-89	CL0063
ARHOMBI_DN2932_c0_g2_i1_5	2	6,7	47,388	12,401	PF00462.23	Glutaredoxin	57,5	1,10E-15	CL0172
ARHOMBI_DN6286_c0_g1_i1_6	1	5,5	29,588	6,2214					
ARUBRA_DN17025_c0_g1_i1_2	1	18,1	13,389	6,7199	PF00132.23	Hexapep	22	8,60E-05	CL0536
ARHOMBI_DN7489_c1_g1_i1_4	1	14,1	9,5648	7,1577	PF00933.20	Glyco_hydro_3	55,2	6,60E-15	CL0058
ARUBRA_DN13369_c0_g1_i1_3	2	28	10,219	12,944	PF03283.12	PAE	154,5	3,60E-45	CL0028
ARUBRA_DN18574_c0_g1_i1_2	1	14	14,358	9,705	PF02990.15	EMP70	106,9	9,60E-31	No_clan
ARUBRA_DN21886_c0_g1_i1_1	2	13,4	17,839	18,203	PF13023.5	HD_3	92,6	2,20E-26	CL0237
ARHOMBI_DN17203_c0_g1_i1_2	1	8	34,191	8,1191	PF01031.19	Dynamin_M	55,2	5,90E-15	No_clan
ARHOMBI_DN13122_c0_g1_i1_4	1	21,8	9,0942	6,707					
ARHOMBI_DN25341_c0_g1_i1_1	5	50,5	12,551	72,257	PF00071.21	Ras	126,7	5,70E-37	CL0023
ARHOMBI_DN3340_c0_g1_i1_2	5	15,5	38,355	16,576	PF00270.28	DEAD	50,6	1,70E-13	CL0023

ARUBRA_DN3419_c0_g1_i1_6	3	17,3	22,02	56,497	PF04107.12	GCS2	52,9	3,20E-14	CL0286
ARHOMBI_DN8889_c0_g1_i1_1	1	22,2	9,2029	6,9407					
ARHOMBI_DN4948_c0_g1_i1_2	1	8,5	26,422	7,0684					
ARUBRA_DN23749_c0_g1_i1_2	1	13,4	18,052	6,6646					
ARUBRA_DN23540_c0_g1_i1_4	1	15,6	9,9182	6,7706	PF00185.23	OTCace	94,6	5,90E-27	CL0399
ARHOMBI_DN658_c0_g1_i1_6	1	10,9	25,172	7,9678	PF10609.8	ParA	133,5	7,80E-39	CL0023
ARUBRA_DN1712_c0_g1_i1_3	3	12,9	45,907	18,62	PF00722.20	Glyco_hydro_16	174	1,80E-51	CL0004
ARUBRA_DN9464_c0_g1_i1_3	1	19,4	10,343	6,3799					
ARUBRA_DN8289_c0_g1_i1_1	3	12,5	32,311	24,86					
ARHOMBI_DN11041_c0_g1_i1_3	1	25,4	7,7108	6,5038	PF00288.25	GHMP_kinases_N	36,3	4,50E-09	CL0329
ARHOMBI_DN8091_c0_g1_i1_4	1	4,7	25,197	6,237	PF00378.19	ECH_1	72	4,20E-20	CL0127
ARHOMBI_DN4244_c0_g1_i2_2	2	8,9	30,265	12,057	PF00574.22	CLP_protease	136,1	1,10E-39	CL0127
ARUBRA_DN313_c0_g2_i1_6	2	16,5	18,125	11,492	PF02320.15	UCR_hinge	81,4	3,70E-23	No_clan
ARUBRA_DN707_c0_g1_i1_4	1	10,8	23,53	6,8732	PF01198.18	Ribosomal_L31e	141,1	9,30E-42	No_clan
ARHOMBI_DN3837_c0_g1_i1_6	1	2,5	48,387	6,2783	PF03106.14	WRKY	85,2	2,70E-24	CL0274
ARUBRA_DN4588_c0_g1_i2_1	2	6,3	37,706	11,368	PF05193.20	Peptidase_M16_C	48,7	8,10E-13	CL0094
ARHOMBI_DN6158_c0_g1_i1_6	6	22,3	31,612	11,875	PF02798.19	GST_N	32,3	9,00E-08	CL0172
ARHOMBI_DN6709_c0_g1_i1_2	1	7,8	33,559	10,951	PF08662.10	eIF2A	105,7	2,60E-30	CL0186
ARHOMBI_DN12465_c0_g1_i1_1	1	19,7	8,1736	19,167					
ARHOMBI_DN26923_c0_g1_i1_1	1	13,5	10,564	6,6575	PF00571.27	CBS	40,6	2,50E-10	No_clan
ARUBRA_DN1422_c0_g2_i1_2	3	7	64,285	19,596	PF04212.17	MIT	75,3	2,70E-21	No_clan
ARHOMBI_DN23444_c0_g1_i1_1	2	26,3	10,94	11,874	PF07766.12	LETM1	93	1,80E-26	No_clan
ARUBRA_DN2399_c0_g1_i1_4	2	16,2	16,168	12,384	PF09585.9	Lin0512_fam	75,7	2,60E-21	No_clan
ARUBRA_DN2263_c0_g2_i1_1	1	4,1	31,838	6,3843	PF00956.17	NAP	62,3	3,60E-17	No_clan
ARHOMBI_DN15914_c0_g1_i1_1	2	10	29,085	12,612	PF02492.18	cobW	24,8	1,30E-05	CL0023
ARUBRA_DN1557_c0_g1_i1_4	1	10,3	18,734	7,4376					
ARUBRA_DN4786_c0_g1_i1_2	2	8,3	37,581	7,064					
ARHOMBI_DN18534_c0_g1_i1_3	1	7,8	22,894	6,9727	PF01502.17	PRA-CH	92,3	1,10E-26	No_clan
ARHOMBI_DN10516_c0_g1_i1_6	2	25,3	8,8909	14,948					
ARUBRA_DN178_c0_g1_i1_1	1	6,1	31,485	8,3951	PF01105.23	EMP24_GP25L	170,9	2,50E-50	CL0521
ARUBRA_DN24618_c0_g1_i1_5	1	15	15,449	7,3505					
ARUBRA_DN23959_c0_g1_i1_1	1	25	8,841	6,8437	PF00202.20	Aminotran_3	61,1	6,70E-17	CL0061
ARUBRA_DN19174_c0_g1_i1_2	2	15,8	24,39	6,7472					

ARHOMBI_DN4479_c0_g1_i1_4	1	2,5	39,53	6,3505	PF13640.5	2OG-FeII_Oxy_3	77,6	9,20E-22	CL0029
ARHOMBI_DN3958_c0_g1_i1_6	4	12	47,61	18,709	PF00076.21	RRM_1	70,8	5,90E-20	CL0221
ARHOMBI_DN2738_c0_g1_i1_2	6	24,7	39,917	6,4311	PF07973.13	tRNA_SAD	63,4	1,40E-17	CL0094
ARUBRA_DN1466_c0_g2_i1_4	2	7,3	27,716	13,999	PF02374.14	ArsA_ATPase	82,9	2,10E-23	CL0023
ARHOMBI_DN3523_c0_g1_i1_4	2	14,7	15,216	10,76	PF01233.18	NMT	44,1	1,70E-11	CL0257
ARHOMBI_DN1869_c0_g2_i1_5	2	9	24,024	14,841	PF00805.21	Pentapeptide	37,2	1,50E-09	CL0505
ARUBRA_DN22416_c0_g1_i1_5	1	17	10,579	7,7452					
ARUBRA_DN446_c0_g1_i1_2	1	13,6	18,866	7,1012					
ARUBRA_DN1177_c0_g2_i1_1	2	5,3	42,27	10,947	PF02781.15	G6PD_C	299,3	2,40E-89	No_clan
ARUBRA_DN22100_c0_g1_i1_5	2	22,8	12,269	11,863	PF00441.23	Acyl-CoA_dh_1	70,7	1,40E-19	CL0087
ARHOMBI_DN9092_c0_g1_i1_2	1	15,9	13,628	7,1432	PF06552.11	TOM20_plant	137,3	4,60E-40	CL0020
ARHOMBI_DN5351_c0_g2_i1_2	1	11,8	13,56	6,798	PF01215.18	COX5B	59,5	2,40E-16	CL0045
ARUBRA_DN3055_c0_g1_i2_3	2	14,7	23,507	10,978					
ARHOMBI_DN21638_c0_g1_i1_6	1	9,7	17,701	6,8237					
ARUBRA_DN4234_c0_g2_i1_6	2	7,3	46,985	11,232	PF02544.15	Steroid_dh	99,1	2,10E-28	CL0115
ARUBRA_DN2493_c0_g1_i1_1	1	7,2	27,846	7,6323	PF13710.5	ACT_5	39,7	3,00E-10	CL0070
ARUBRA_DN7662_c0_g1_i1_2	2	13,2	23,602	13,201	PF16752.4	TBCC_N	103,8	6,90E-30	No_clan
ARUBRA_DN12348_c0_g1_i1_6	3	47,3	12,006	18,91	PF00173.27	Cyt-b5	92	1,70E-26	No_clan
ARHOMBI_DN3285_c0_g2_i1_4	3	22,2	13,177	8,615	PF00248.20	Aldo_ket_red	28,5	7,40E-07	No_clan
ARHOMBI_DN8957_c0_g1_i1_1	2	13,1	24,85	12,295	PF00291.24	PALP	136,8	8,80E-40	No_clan
ARHOMBI_DN21971_c0_g1_i1_1	2	16,6	21,167	11,135	PF05542.10	DUF760	26,4	6,10E-06	No_clan
ARUBRA_DN13989_c0_g1_i1_2	1	12,8	12,088	6,446					
ARUBRA_DN26201_c0_g1_i1_1	1	20,2	9,9904	8,6423	PF17004.4	SRP_TPR_like	57,2	1,40E-15	CL0020
ARHOMBI_DN16098_c0_g1_i1_2	2	27,6	11,054	13,365	PF13409.5	GST_N_2	44,3	1,50E-11	CL0172
ARHOMBI_DN2295_c0_g1_i1_1	2	9,6	31,262	30,291					
ARHOMBI_DN8630_c0_g1_i1_2	1	10,3	19,192	9,1835	PF01756.18	ACOX	39,9	2,90E-10	CL0087
ARUBRA_DN15491_c0_g1_i1_1	1	20,9	7,3062	6,8992					
ARUBRA_DN7176_c0_g1_i1_6	1	19,1	10,109	8,323					
ARUBRA_DN22998_c0_g1_i1_5	2	9,7	29,275	13,513	PF14938.5	SNAP	43,5	2,40E-11	CL0020
ARHOMBI_DN1819_c0_g1_i1_2	1	9,6	18,94	7,3028	PF00107.25	ADH_zinc_N	70,3	1,30E-19	CL0063
ARUBRA_DN1769_c0_g2_i1_6	2	27,3	12,298	11,013	PF01014.17	Uricase	79,2	3,20E-22	CL0334
ARHOMBI_DN7578_c0_g1_i1_4	4	29,6	23,486	7,6208	PF00676.19	E1_dh	109,8	1,20E-31	CL0254
ARHOMBI_DN4440_c0_g1_i1_4	4	20,9	30,104	6,8337	PF01557.17	FAA_hydrolase	199	7,10E-59	CL0377

ARUBRA_DN16297_c0_g1_i1_4	2	10,5	22,167	12,3					
ARUBRA_DN7697_c0_g1_i1_2	1	23,6	11,776	8,2064	PF12068.7	DUF3548	76,1	2,70E-21	No_clan
ARUBRA_DN19516_c0_g1_i1_2	1	6,2	36,817	6,6111	PF01915.21	Glyco_hydro_3_C	121,7	3,70E-35	No_clan
ARUBRA_DN9248_c0_g1_i1_4	2	8,8	32,829	64,616	PF03662.13	Glyco_hydro_79n	131,9	2,20E-38	CL0058
ARHOMBI_DN26238_c0_g1_i1_4	1	16,2	7,9361	8,9362	PF00190.21	Cupin_1	62	4,40E-17	CL0029
ARHOMBI_DN1217_c0_g2_i1_1	1	18,4	10,796	8,5566	PF00198.22	2-oxoacid_dh	85,1	4,40E-24	CL0149
ARUBRA_DN22060_c0_g1_i1_4	2	11,3	28,402	12,129					
ARHOMBI_DN3796_c0_g1_i1_3	2	6,3	41,408	11,944	PF00082.21	Peptidase_S8	81,8	4,80E-23	No_clan
ARUBRA_DN3884_c0_g1_i1_3	1	6,9	25,872	6,2226	PF01124.17	MAPEG	80,5	9,20E-23	No_clan
ARHOMBI_DN11238_c0_g1_i1_1	1	20,6	10,519	7,6285	PF00118.23	Cpn60_TCP1	120,4	7,40E-35	No_clan
ARUBRA_DN20512_c0_g1_i1_5	2	15,5	18,742	12,805					
ARUBRA_DN2494_c0_g1_i1_5	3	18,8	25,999	18,735	PF00300.21	His_Phos_1	204,4	1,30E-60	CL0071
ARHOMBI_DN25808_c0_g1_i1_4	1	14,9	10,222	6,6593	PF08264.12	Anticodon_1	44,1	1,80E-11	CL0258
ARHOMBI_DN5409_c0_g1_i1_1	1	3,4	58,681	8,9167					
ARUBRA_DN4725_c0_g1_i1_2	3	9,7	50,798	24,625	PF00112.22	Peptidase_C1	216,3	5,20E-64	CL0125
ARUBRA_DN19472_c0_g1_i1_2	1	6,7	30,933	6,1814					
ARUBRA_DN9681_c0_g1_i1_1	1	7,7	24,63	6,5465	PF05193.20	Peptidase_M16_C	32	1,10E-07	CL0094
ARUBRA_DN21358_c0_g1_i1_1	1	13,9	15,254	6,9574	PF00642.23	zf-CCCH	38,9	5,00E-10	CL0537
ARUBRA_DN2192_c0_g1_i1_5	1	9,5	16,886	6,9411	PF04398.11	DUF538	59,2	4,60E-16	No_clan
ARUBRA_DN14031_c0_g1_i1_6	2	21,8	16,879	12,517	PF00013.28	KH_1	31,4	1,20E-07	CL0007
ARUBRA_DN22638_c0_g1_i1_6	1	31,8	8,9872	9,2824	PF00288.25	GHMP_kinases_N	24,3	2,40E-05	CL0329
ARUBRA_DN3929_c0_g1_i2_5	3	22,2	20,053	6,4529	PF00248.20	Aldo_ket_red	54,7	7,50E-15	No_clan
ARUBRA_DN3241_c0_g1_i1_4	2	6	51,805	11,573	PF00153.26	Mito_carr	80,6	5,50E-23	No_clan
ARUBRA_DN2358_c0_g1_i1_4	1	8,4	21,869	6,5968					
ARUBRA_DN24043_c0_g1_i1_4	2	23,5	13,599	10,943					
ARHOMBI_DN24632_c0_g1_i1_3	1	20,3	8,2083	6,6182	PF00501.27	AMP-binding	44,5	7,20E-12	CL0378
ARHOMBI_DN26919_c0_g1_i1_4	2	38,8	8,7346	12,102	PF00933.20	Glyco_hydro_3	42,7	4,20E-11	CL0058
ARUBRA_DN23841_c0_g1_i1_4	1	21,5	8,5869	6,6839					
ARUBRA_DN19491_c0_g1_i1_2	1	15,3	10,098	6,9552					
ARUBRA_DN22396_c0_g1_i1_1	2	23,8	12,083	12,966					
ARHOMBI_DN19578_c0_g1_i1_4	2	9,5	25,229	11,649	PF00013.28	KH_1	42,6	3,60E-11	CL0007
ARHOMBI_DN3163_c0_g1_i1_3	2	7,7	32,48	10,889	PF00005.26	ABC_tran	63,5	2,50E-17	CL0023
ARUBRA_DN19450_c0_g1_i1_4	1	14,9	22,519	6,6805					

ARUBRA_DN130_c0_g1_i1_4	2	11,5	19,645	11,959	PF00731.19	AIRC	70,7	8,80E-20	No_clan
ARHOMBI_DN4296_c0_g1_i1_1	2	7,7	40,689	13,492	PF00326.20	Peptidase_S9	68,6	4,90E-19	CL0028
ARUBRA_DN6440_c0_g1_i1_4	2	7,9	24,237	11,748	PF00403.25	HMA	44,5	1,50E-11	No_clan
ARHOMBI_DN6362_c0_g1_i1_1	1	18,2	8,6977	6,446	PF00183.17	HSP90	84,4	7,00E-24	No_clan
ARHOMBI_DN23114_c0_g1_i1_1	2	33	11,29	13,485					
ARHOMBI_DN4923_c0_g1_i1_6	1	6,6	22,743	6,6414	PF07876.11	Dabb	90,3	8,60E-26	CL0032
ARUBRA_DN6647_c0_g1_i1_3	1	18,6	10,958	6,4637					
ARHOMBI_DN5696_c0_g1_i1_6	1	5,5	34,462	6,2343					
ARUBRA_DN8888_c0_g1_i1_4	1	9,1	19,702	8,1362					
ARHOMBI_DN5174_c0_g2_i1_1	1	15,8	8,017	7,0407	PF05368.12	NmrA	73	2,40E-20	CL0063
ARUBRA_DN16605_c0_g1_i1_4	2	12,2	28,215	12,363	PF00464.18	SHMT	318,5	4,40E-95	CL0061
ARHOMBI_DN18922_c0_g1_i1_3	1	13,6	14,527	7,3279					
ARHOMBI_DN5270_c0_g1_i1_5	2	11	36,244	11,781	PF03767.13	Acid_phosphat_B	239,5	3,10E-71	CL0137
ARHOMBI_DN9484_c0_g2_i1_3	2	17	24,136	14,36	PF16550.4	RPN13_C	82,9	1,60E-23	No_clan
ARHOMBI_DN498_c0_g1_i1_1	2	8,8	38,703	11,994	PF00076.21	RRM_1	41,6	7,60E-11	CL0221
ARHOMBI_DN1736_c0_g1_i1_6	1	11,5	23,27	8,6961	PF02775.20	TPP_enzyme_C	70,6	1,20E-19	CL0254
ARUBRA_DN171_c0_g2_i1_3	1	15,6	15,49	7,0487	PF02990.15	EMP70	161,5	2,70E-47	No_clan
ARUBRA_DN23798_c0_g1_i1_1	1	9,3	17,28	6,8614					
ARHOMBI_DN9171_c0_g1_i1_1	1	8,5	14,124	6,4228	PF12580.7	TPPII	61,3	7,70E-17	No_clan
ARUBRA_DN3301_c0_g2_i1_5	1	3,5	51,149	-2	PF00400.31	WD40	12,9	0,15	CL0186
ARUBRA_DN2204_c0_g1_i1_6	2	21,6	22,946	16,207	PF13639.5	zf-RING_2	44	1,80E-11	CL0229
ARHOMBI_DN1709_c0_g2_i1_6	1	5,3	24,73	24,024	PF00407.18	Bet_v_1	120,8	4,00E-35	CL0209
ARUBRA_DN4715_c0_g1_i1_5	1	6,6	28,954	6,3023	PF00326.20	Peptidase_S9	124,4	4,00E-36	CL0028
ARHOMBI_DN17044_c0_g1_i1_2	1	5,2	31,66	6,7911	PF02770.18	Acyl-CoA_dh_M	54,7	8,10E-15	No_clan
ARHOMBI_DN6819_c0_g1_i1_2	1	5,4	40,541	6,6085	PF00155.20	Aminotran_1_2	207,1	3,90E-61	CL0061
ARHOMBI_DN5985_c0_g1_i1_4	2	10,8	39,561	9,1714	PF03951.18	Gln-synt_N	39,4	3,30E-10	No_clan
ARUBRA_DN24121_c0_g1_i1_6	1	22,2	10,083	6,2905					
ARUBRA_DN4657_c0_g1_i1_6	1	5,4	22,034	7,6778	PF00407.18	Bet_v_1	166	4,90E-49	CL0209
ARUBRA_DN290_c0_g1_i1_5	3	8,3	55,427	17,6	PF00574.22	CLP_protease	145,2	1,80E-42	CL0127
ARHOMBI_DN5862_c0_g1_i1_2	1	3,8	35,175	6,3122	PF04526.12	DUF568	88,7	3,00E-25	No_clan
ARHOMBI_DN6231_c0_g3_i5_2	3	9,5	36,732	11,594	PF13561.5	adh_short_C2	196,3	4,90E-58	CL0063
ARUBRA_DN5145_c0_g1_i1_2	1	13,2	21,795	6,236	PF01501.19	Glyco_transf_8	27,8	1,60E-06	CL0110
ARUBRA_DN20610_c0_g1_i1_6	1	26,1	7,0769	6,5278					

ARHOMBI_DN19734_c0_g1_i1_3	1	6,5	20,692	6,4664	PF01399.26	PCI	42,2	8,50E-11	CL0123
ARHOMBI_DN13808_c0_g1_i1_5	2	20,9	18,634	11,564	PF00400.31	WD40	33,5	4,50E-08	CL0186
ARUBRA_DN19459_c0_g1_i1_5	2	13,5	26,27	12,781	PF00255.18	GSHPx	137,4	1,10E-40	CL0172
ARHOMBI_DN4450_c0_g1_i1_5	2	6,6	30,995	11,071	PF13419.5	HAD_2	66,4	3,00E-18	CL0137
ARUBRA_DN2002_c0_g2_i1_5	1	7,6	27,101	9,9246	PF14159.5	CAAD	89	1,20E-25	No_clan
ARHOMBI_DN22399_c0_g1_i1_2	1	21,8	11,832	6,5664					
ARHOMBI_DN16397_c0_g1_i1_6	1	8	18,606	6,5601	PF01920.19	Prefoldin_2	67,8	6,20E-19	CL0200
ARHOMBI_DN3020_c0_g2_i1_1	4	30	16,985	7,6027	PF01599.18	Ribosomal_S27	95,4	1,50E-27	CL0167
ARHOMBI_DN6884_c0_g1_i1_5	2	18	16,421	12,388	PF01399.26	PCI	71	9,50E-20	CL0123
ARUBRA_DN21439_c0_g1_i1_3	1	13,3	10,765	6,7576	PF00314.16	Thaumatin	122,2	2,30E-35	CL0293
ARHOMBI_DN5298_c0_g1_i1_5	1	6,9	37,915	6,6631	PF04051.15	TRAPP	143,7	3,00E-42	CL0210
ARHOMBI_DN6134_c0_g1_i2_6	3	12,5	35,544	6,9924					
ARHOMBI_DN21703_c0_g1_i1_5	2	15,2	18,591	12,699	PF12265.7	CAF1C_H4-bd	57,6	1,10E-15	No_clan
ARHOMBI_DN1691_c0_g1_i1_5	1	10,2	21,316	6,4353					
ARHOMBI_DN20074_c0_g1_i1_1	3	28,9	16,121	6,1647	PF01433.19	Peptidase_M1	206,7	3,10E-61	CL0126
ARUBRA_DN16643_c0_g1_i1_2	2	34	10,028	13,225	PF08240.11	ADH_N	35,3	7,70E-09	CL0296
ARHOMBI_DN16129_c0_g1_i1_4	1	10,9	13,506	6,358					
ARUBRA_DN4512_c0_g1_i1_2	2	14,5	29,226	6,4173					
ARHOMBI_DN8916_c0_g1_i1_1	2	10,2	25,164	13,253	PF00106.24	adh_short	167,6	2,00E-49	CL0063
ARHOMBI_DN12802_c0_g1_i1_2	1	15,5	10,741	6,387	PF02446.16	Glyco_hydro_77	85,3	3,80E-24	CL0058
ARUBRA_DN14943_c0_g1_i1_6	1	17,4	9,6437	6,9221	PF02786.16	CPSase_L_D2	107,7	5,30E-31	CL0179
ARHOMBI_DN21499_c0_g1_i1_5	1	10,8	17,931	7,4363	PF00289.21	Biotin_carb_N	77,3	1,10E-21	CL0483
ARHOMBI_DN16804_c0_g1_i1_2	3	16,8	26,858	6,2036	PF13415.5	Kelch_3	30,7	2,60E-07	CL0186
ARHOMBI_DN3081_c0_g1_i2_3	2	5,4	46,038	11,868	PF04548.15	AIG1	275	3,00E-82	CL0023
ARHOMBI_DN26634_c0_g1_i1_6	1	26,9	9,1554	7,3345	PF00240.22	ubiquitin	45,6	4,10E-12	CL0072
ARUBRA_DN16199_c0_g1_i1_3	2	9,5	30,428	90,411	PF03959.12	FSH1	165,5	1,20E-48	CL0028
ARHOMBI_DN10954_c0_g1_i1_5	2	46,8	10,308	13,013					
ARHOMBI_DN8652_c0_g1_i1_2	1	9,9	15,135	6,2184	PF05562.10	WCOR413	49	5,90E-13	No_clan
ARUBRA_DN26687_c0_g1_i1_2	2	41,2	8,6436	11,855	PF00266.18	Aminotran_5	46,9	1,70E-12	CL0061
ARHOMBI_DN3151_c0_g2_i1_5	1	13,2	11,662	6,822	PF00226.30	DnaJ	71,4	4,60E-20	CL0392
ARHOMBI_DN12758_c0_g1_i1_4	1	20,9	7,3782	6,7553					
ARUBRA_DN6423_c0_g1_i1_6	1	5,8	18,26	6,2546	PF00515.27	TPR_1	35,4	5,60E-09	CL0020
ARUBRA_DN11367_c0_g1_i1_2	2	45,2	8,3044	12,84					

ARHOMBI_DN22357_c0_g1_i1_4	2	9	34,779	11,413	PF00585.17	Thr_dehydrat_C	84,3	3,50E-24	CL0070
ARUBRA_DN20780_c0_g1_i1_5	2	12,3	30,256	12,239					
ARHOMBI_DN17128_c0_g1_i1_2	1	7,7	27,466	14,114	PF06232.10	ATS3	182,4	2,50E-54	CL0321
ARHOMBI_DN21148_c0_g1_i1_2	1	9,5	15,145	6,3595	PF04548.15	AIG1	83,6	1,10E-23	CL0023
ARHOMBI_DN4969_c0_g1_i1_6	1	4	38,245	6,5747					
ARHOMBI_DN2477_c0_g2_i1_4	2	8,8	48,225	11,968	PF00930.20	DPPIV_N	254,2	1,40E-75	CL0186
ARUBRA_DN2574_c0_g1_i1_1	1	11,8	16,862	6,1711	PF00237.18	Ribosomal_L22	104,2	3,60E-30	No_clan
ARHOMBI_DN1345_c0_g1_i1_3	1	5,9	32,549	6,1641	PF16656.4	Pur_ac_phosph_N	70,5	1,30E-19	CL0159
ARUBRA_DN7816_c0_g1_i1_3	3	21,4	15,11	17,754	PF01053.19	Cys_Met_Meta_PP	155,8	1,10E-45	CL0061
ARHOMBI_DN4238_c0_g1_i1_6	2	7,5	39,326	11,486	PF02492.18	cobW	109,3	1,40E-31	CL0023
ARUBRA_DN17859_c0_g1_i1_6	1	20	8,5224	6,4726					
ARHOMBI_DN6130_c1_g1_i2_6	2	19,7	17,777	10,938	PF12220.7	U1snRNP70_N	74,4	8,00E-21	CL0221
ARUBRA_DN15205_c0_g1_i1_1	1	11,6	12,487	6,733					
ARUBRA_DN17787_c0_g1_i1_5	1	10,8	15,768	6,3661					
ARHOMBI_DN21125_c0_g1_i1_2	1	17,3	8,2669	123,52	PF09070.10	PFU	68,8	4,10E-19	No_clan
ARUBRA_DN22796_c0_g1_i1_1	2	54,1	7,8158	11,054					
ARHOMBI_DN2978_c0_g1_i1_5	3	20,7	27,923	18,471	PF01593.23	Amino_oxidase	83,1	2,30E-23	CL0063
ARHOMBI_DN8760_c0_g1_i1_1	1	14,3	10,356	6,2449	PF01602.19	Adaptin_N	62,3	3,10E-17	CL0020
ARUBRA_DN11549_c0_g1_i1_5	4	27	17,467	-2	PF00044.23	Gp_dh_N	116,3	6,00E-34	CL0063
ARHOMBI_DN22363_c0_g1_i1_3	2	20,7	14,357	12,463					
ARUBRA_DN7615_c0_g1_i1_5	2	16,9	16,708	13,497					
ARHOMBI_DN10838_c0_g1_i1_3	1	5,8	22,043	12,324	PF01221.17	Dynein_light	120,2	3,20E-35	No_clan
ARHOMBI_DN1649_c0_g1_i1_5	1	12,8	16,638	8,8188	PF00705.17	PCNA_N	200,5	5,60E-60	CL0060
ARHOMBI_DN20781_c0_g1_i1_6	3	20,7	19,737	16,836	PF01152.20	Bac_globin	146	5,10E-43	CL0090
ARHOMBI_DN6024_c0_g1_i2_5	3	9,9	51,498	12,021	PF01873.16	eIF-5_eIF-2B	133,3	3,30E-39	No_clan
ARHOMBI_DN6092_c0_g3_i3_3	3	11,1	51,385	6,7924	PF00127.19	Copper-bind	116,9	4,10E-34	CL0026
ARUBRA_DN23408_c0_g1_i1_6	1	13,9	11,962	6,9742	PF07393.10	Sec10	44,2	8,80E-12	CL0294
ARHOMBI_DN17360_c0_g1_i1_3	1	15,9	9,2932	6,1969	PF00013.28	KH_1	45,4	5,00E-12	CL0007
ARUBRA_DN6106_c0_g1_i1_6	1	16,2	8,0193	6,5761					
ARUBRA_DN8839_c0_g1_i1_5	1	7,3	17,329	6,6801					
ARUBRA_DN5290_c0_g1_i1_5	2	11,6	28,202	12,655	PF00383.22	dCMP_cyt_deam_1	85,6	1,70E-24	CL0109
ARHOMBI_DN16684_c0_g1_i1_4	2	10,2	30,686	11,964	PF09177.10	Syntaxin-6_N	81,7	4,20E-23	No_clan
ARUBRA_DN16761_c0_g1_i1_6	2	12	18,081	6,2027	PF00450.21	Peptidase_S10	115,6	3,40E-33	CL0028

ARUBRA_DN18234_c0_g1_i1_6	1	11,7	12,588	6,6633					
ARUBRA_DN483_c0_g1_i1_1	1	8,3	21,982	8,0191					
ARHOMBI_DN20642_c0_g1_i1_2	1	30,7	8,3154	7,9418	PF02737.17	3HCDH_N	100,6	8,30E-29	CL0063
ARHOMBI_DN1985_c0_g1_i1_1	3	22,5	17,653	6,4688	PF06957.10	COPI_C	215,2	1,20E-63	CL0020
ARUBRA_DN4720_c0_g1_i2_2	2	9,3	38,272	12,201	PF13640.5	2OG-FeII_Oxy_3	77,5	9,90E-22	CL0029
ARHOMBI_DN8466_c0_g1_i1_2	1	15,8	9,6251	6,3659					
ARUBRA_DN26386_c0_g1_i1_2	2	40,5	7,8694	12,535					
ARHOMBI_DN16500_c0_g1_i1_6	1	20,3	8,794	6,307	PF06068.12	TIP49	130,2	8,80E-38	CL0023
ARUBRA_DN7170_c0_g1_i1_6	1	12,5	20,109	7,6213	PF00657.21	Lipase_GDSL	60,4	2,10E-16	CL0264
ARUBRA_DN828_c0_g1_i1_6	2	4,6	55,994	11,676	PF00310.20	GATase_2	415,4	2,00E-124	CL0052
ARHOMBI_DN8693_c1_g1_i1_5	1	11,4	13,134	6,3588					
ARHOMBI_DN19277_c0_g1_i1_4	2	11,3	24,764	12,545	PF00638.17	Ran_BP1	68,3	6,40E-19	CL0266
ARUBRA_DN11258_c0_g1_i1_3	1	23,3	9,0959	7,3004	PF00350.22	Dynamin_N	45	1,10E-11	CL0023
ARHOMBI_DN9241_c0_g1_i1_6	1	12,3	17,031	6,8424	PF04871.12	Uso1_p115_C	72,5	3,60E-20	No_clan
ARHOMBI_DN2715_c0_g1_i1_5	2	12,4	26,91	12,518					
ARUBRA_DN18267_c0_g1_i1_4	1	7,7	23,344	7,3312	PF14555.5	UBA_4	45,6	4,10E-12	CL0214
ARUBRA_DN17506_c0_g1_i1_4	1	7,7	34,033	7,4464	PF04371.14	PAD_porph	298,5	5,60E-89	CL0197
ARUBRA_DN5389_c0_g1_i1_3	4	17,5	32,15	24,776	PF00141.22	peroxidase	204,5	1,60E-60	CL0617
ARHOMBI_DN3097_c0_g1_i2_1	2	13,9	18,454	6,1988	PF01095.18	Pectinesterase	155,1	1,50E-45	CL0268
ARUBRA_DN5867_c0_g1_i1_1	1	18,9	8,0631	6,5362	PF13507.5	GATase_5	76,7	1,40E-21	CL0014
ARUBRA_DN18169_c0_g1_i1_2	1	16,3	15,828	17,158	PF00627.30	UBA	34,2	1,60E-08	CL0214
ARUBRA_DN4178_c0_g2_i1_3	1	2,6	65,345	6,2857	PF00226.30	DnaJ	91,1	3,40E-26	CL0392
ARUBRA_DN6773_c0_g1_i1_3	1	5,9	30,718	6,8483	PF03248.12	Rer1	240,5	7,50E-72	No_clan
ARHOMBI_DN20737_c0_g1_i1_3	1	13,5	14,089	7,4946	PF01411.18	tRNA-synt_2c	176,2	9,20E-52	CL0040
ARUBRA_DN1212_c0_g2_i1_5	1	8,7	18,501	10,318					
ARUBRA_DN22616_c0_g1_i1_2	1	18,4	8,5847	6,7576	PF00854.20	PTR2	28,5	6,00E-07	CL0015
ARHOMBI_DN4651_c0_g1_i1_3	4	16,7	26,842	6,5167	PF00071.21	Ras	183,2	2,50E-54	CL0023
ARUBRA_DN4817_c0_g1_i2_6	2	5,3	74,899	12,256	PF00258.24	Flavodoxin_1	110,7	6,20E-32	CL0042
ARUBRA_DN5232_c0_g1_i1_6	1	16,7	12,407	7,0278					
ARUBRA_DN8160_c0_g1_i1_1	1	16,9	9,3335	6,8914	PF00642.23	zf-CCCH	36,7	2,50E-09	CL0537
ARHOMBI_DN25761_c0_g1_i1_2	1	12,9	13,463	6,3588	PF02824.20	TGS	89,1	1,30E-25	CL0072
ARUBRA_DN18459_c0_g1_i1_4	1	8,2	20,529	6,158					

ARUBRA_DN23641_c0_g1_i1_3	2	15,2	18,586	10,997	PF01425.20	Amidase	23	3,20E-05	No_clan
ARHOMBI_DN15083_c0_g1_i1_2	1	38	8,6406	8,6349					
ARHOMBI_DN5292_c0_g1_i1_5	1	8,4	27,615	6,3585	PF02560.13	Cyanate_lyase	101,6	1,40E-29	No_clan
ARUBRA_DN13177_c0_g1_i1_4	1	16,5	9,0923	6,6614	PF01008.16	IF-2B	22,6	4,80E-05	CL0246
ARUBRA_DN25572_c0_g1_i1_1	1	19,5	9,667	6,1978	PF03367.12	zf-ZPR1	64	1,30E-17	CL0167
ARHOMBI_DN10905_c0_g1_i1_3	2	19,6	15,279	11,288	PF00266.18	Aminotran_5	141,6	2,80E-41	CL0061
ARHOMBI_DN4521_c0_g1_i1_6	2	21,7	17,838	9,711	PF02933.16	CDC48_2	48,9	3,80E-13	CL0402
ARUBRA_DN16776_c0_g1_i1_3	1	5,4	25,143	6,7786	PF01633.19	Choline_kinase	139	1,50E-40	CL0016
ARUBRA_DN3345_c0_g2_i1_6	2	5,1	50,049	12,097					
ARHOMBI_DN3792_c0_g1_i2_2	2	11,1	34,612	14,561	PF07720.11	TPR_3	12,5	0,1	CL0020
ARHOMBI_DN2492_c0_g1_i1_2	1	14,9	11,308	6,8678					
ARHOMBI_DN17916_c0_g1_i1_3	1	8,2	20,463	6,4253	PF07724.13	AAA_2	120,9	5,60E-35	CL0023
ARUBRA_DN23363_c0_g1_i1_1	1	28,4	7,9559	6,315	PF06101.10	Vps62	93,4	9,60E-27	No_clan
ARUBRA_DN6829_c0_g1_i1_2	1	14,1	14,172	7,4625					
ARUBRA_DN14638_c0_g1_i1_5	1	11,4	13,453	6,3931					
ARUBRA_DN20092_c0_g1_i1_5	1	29,4	7,1471	7,803					
ARHOMBI_DN4417_c0_g1_i1_4	3	10,5	45,752	18,764	PF00076.21	RRM_1	33,2	3,10E-08	CL0221
ARHOMBI_DN22894_c0_g1_i1_5	1	13,8	9,5616	43,754	PF00332.17	Glyco_hydro_17	48,5	7,50E-13	CL0058
ARUBRA_DN7549_c0_g1_i1_1	1	6,8	18,206	6,5665	PF00076.21	RRM_1	48,6	4,80E-13	CL0221
ARHOMBI_DN3368_c0_g1_i1_3	1	8,2	24,509	7,3759	PF02201.17	SWIB	93,5	4,90E-27	No_clan
ARUBRA_DN1922_c0_g2_i1_6	2	20,2	13,106	11,357					
ARHOMBI_DN7605_c0_g1_i1_1	1	16,1	9,3108	6,7048					
ARUBRA_DN7746_c0_g1_i1_5	3	24,8	16,671	33,07	PF00248.20	Aldo_ket_red	94,4	6,30E-27	No_clan
ARUBRA_DN23775_c0_g1_i1_5	1	19,4	7,4052	6,1496					
ARUBRA_DN22204_c0_g1_i1_5	1	8,6	20,305	6,2137					
ARHOMBI_DN16579_c0_g1_i1_6	1	14,5	8,6148	6,237	PF05770.10	Ins134_P3_kin	90,6	1,00E-25	CL0179
ARUBRA_DN23978_c0_g1_i1_3	1	25,4	6,999	6,7763	PF08241.11	Methyltransf_11	33,5	4,70E-08	CL0063
ARUBRA_DN293_c0_g1_i1_1	2	12,8	33,521	13,782	PF00022.18	Actin	308,7	4,40E-92	CL0108
ARHOMBI_DN14395_c0_g1_i1_5	1	20,3	7,9662	6,8664					
ARHOMBI_DN18669_c0_g1_i1_3	1	27	7,476	6,4823					
ARUBRA_DN18022_c0_g1_i1_6	1	7,2	18,117	7,0859	PF01603.19	B56	227,4	2,90E-67	CL0020
ARUBRA_DN784_c0_g2_i1_6	2	8,4	26,324	12,022	PF12697.6	Abhydrolase_6	41,4	2,30E-10	CL0028
ARUBRA_DN7117_c0_g1_i1_3	1	21,1	8,1472	6,8134	PF00982.20	Glyco_transf_20	82	3,20E-23	CL0113

ARUBRA_DN13794_c0_g1_i1_1	1	20	8,4608	6,8237					
ARHOMBI_DN2834_c0_g2_i1_4	1	7,3	21,053	6,2597					
ARUBRA_DN7201_c0_g1_i1_6	1	9,3	24,553	6,724					
ARUBRA_DN20463_c0_g1_i1_4	1	10,3	16,892	6,8699	PF00152.19	tRNA-synt_2	125,6	1,90E-36	CL0040
ARUBRA_DN12786_c0_g1_i1_6	2	9,7	32,484	11,08					
ARUBRA_DN4014_c0_g1_i1_1	4	53,5	11,135	6,6691	PF00248.20	Aldo_ket_red	35	7,90E-09	No_clan
ARUBRA_DN21_c0_g1_i1_6	1	6,4	22,193	6,1533					
ARUBRA_DN14287_c0_g1_i1_2	2	21	18,398	12,179	PF16488.4	ArgoL2	54	1,50E-14	No_clan
ARUBRA_DN3405_c0_g2_i1_2	1	4,6	28,573	6,169					
ARHOMBI_DN17003_c0_g1_i1_2	1	16,7	10,302	7,5534	PF06972.10	DUF1296	121,4	1,20E-35	CL0214
ARUBRA_DN1302_c0_g1_i1_2	2	21,4	13,79	12,14					
ARHOMBI_DN20638_c0_g1_i1_2	1	23,6	7,8589	6,2011					
ARHOMBI_DN3957_c0_g2_i1_3	2	8	43,056	6,5403	PF00069.24	Pkinase	253,4	2,10E-75	CL0016
ARUBRA_DN19773_c0_g1_i1_2	1	4	26,838	10,88					
ARHOMBI_DN15739_c0_g1_i1_6	1	10,4	20,569	6,3265	PF00069.24	Pkinase	178,1	2,00E-52	CL0016
ARUBRA_DN1164_c0_g1_i1_2	1	14,2	12,277	6,3663					
ARUBRA_DN12959_c0_g1_i1_2	2	34,4	13,363	16,835	PF00076.21	RRM_1	21,6	0,00013	CL0221
ARHOMBI_DN11084_c0_g1_i1_6	1	19,1	7,5293	6,2669	PF02574.15	S-methyl_trans	28,2	1,40E-06	No_clan
ARUBRA_DN24628_c0_g1_i1_6	2	29,3	11,022	11,16	PF00118.23	Cpn60_TCP1	72,4	2,70E-20	No_clan
ARHOMBI_DN5257_c0_g1_i1_3	1	4,2	36,161	6,9239	PF01058.21	Oxidored_q6	77,7	6,10E-22	No_clan
ARUBRA_DN15806_c0_g1_i1_3	2	18	14,669	11,051					
ARHOMBI_DN21683_c0_g1_i1_3	1	12,8	16,565	6,6976	PF02887.15	PK_C	46,2	4,20E-12	No_clan
ARHOMBI_DN7504_c0_g1_i1_3	1	36,4	8,3284	8,459	PF00330.19	Aconitase	115,9	2,20E-33	No_clan
ARUBRA_DN13027_c0_g1_i1_5	1	10,9	13,456	6,7656	PF12796.6	Ank_2	53,3	2,90E-14	CL0465
ARUBRA_DN22863_c0_g1_i1_4	1	15,2	8,6093	6,4741					
ARUBRA_DN19918_c0_g1_i1_5	1	7,5	22,849	6,5598	PF01070.17	FMN_dh	251,3	1,20E-74	CL0036
ARHOMBI_DN4736_c0_g1_i1_4	2	4,9	60,17	12,613	PF00232.17	Glyco_hydro_1	573,1	2,80E-172	CL0058
ARUBRA_DN24058_c0_g1_i1_4	2	20,1	17,669	11,252	PF00076.21	RRM_1	72,3	1,90E-20	CL0221
ARUBRA_DN4090_c0_g1_i2_2	2	13,7	20,984	11,462	PF04190.12	DUF410	52	7,60E-14	No_clan
ARUBRA_DN13119_c0_g1_i1_6	1	10,3	17,304	6,5818	PF13812.5	PPR_3	24,3	2,20E-05	CL0020
ARHOMBI_DN13499_c0_g1_i1_4	2	16,2	18,946	12,513					
ARUBRA_DN19563_c0_g1_i1_5	1	6,7	23,298	6,446	PF05577.11	Peptidase_S28	69,7	1,90E-19	CL0028

ARUBRA_DN14032_c0_g1_i1_2	2	31,4	11,586	6,2904	PF09668.9	Asp_protease	125	1,30E-36	CL0129
ARHOMBI_DN5062_c0_g1_i1_6	2	4,8	71,263	12,15	PF07994.11	NAD_binding_5	473,8	2,80E-142	CL0063
ARHOMBI_DN24773_c0_g1_i1_3	2	15,4	19,078	11,712					
ARHOMBI_DN4958_c0_g1_i1_3	1	10,4	8,3698	6,2423					
ARHOMBI_DN4594_c0_g1_i1_1	2	5,3	48,56	11,158					
ARHOMBI_DN27276_c0_g1_i1_4	1	17,2	9,5307	6,3893					
ARHOMBI_DN3256_c0_g1_i1_1	1	7,8	19,498	6,822	PF00153.26	Mito_carr	35,6	6,10E-09	No_clan
ARHOMBI_DN20557_c0_g1_i1_4	1	14,7	14,89	6,1693	PF00226.30	DnaJ	86,2	1,10E-24	CL0392
ARHOMBI_DN186_c0_g2_i1_4	2	11,9	23,81	13,407	PF03662.13	Glyco_hydro_79n	335,2	2,90E-100	CL0058
ARUBRA_DN19452_c0_g1_i1_6	1	16,3	15,376	6,3339					
ARUBRA_DN26125_c0_g1_i1_2	1	18,4	8,4016	6,5212	PF02545.13	Maf	42,5	5,30E-11	CL0269
ARHOMBI_DN20462_c0_g1_i1_3	1	12,6	16,517	6,5961					
ARUBRA_DN3192_c0_g1_i1_2	1	3,6	35,589	6,7929	PF13023.5	HD_3	162,2	8,80E-48	CL0237
ARUBRA_DN5035_c0_g1_i1_2	1	3,9	43,83	6,6204	PF00332.17	Glyco_hydro_17	408,5	1,90E-122	CL0058
ARHOMBI_DN1419_c0_g1_i1_6	1	8,1	26,473	6,2471					
ARHOMBI_DN19246_c0_g1_i1_1	1	10,3	21,563	6,4711	PF04597.13	Ribophorin_I	125,1	4,00E-36	No_clan
ARHOMBI_DN17996_c0_g1_i1_4	1	18,1	7,9208	6,4865					
ARUBRA_DN18443_c0_g1_i1_6	1	30,9	8,6278	6,8841	PF00270.28	DEAD	42,7	4,60E-11	CL0023
ARHOMBI_DN20793_c0_g1_i1_6	1	10,7	13,653	6,3632	PF03179.14	V-ATPase_G	59,2	4,50E-16	CL0255
ARUBRA_DN6539_c0_g2_i1_2	1	3	47,84	6,21	PF16940.4	Tic110	33,4	1,70E-08	No_clan
ARUBRA_DN2046_c0_g2_i1_2	2	19,3	17,683	13,59	PF08240.11	ADH_N	75,3	2,90E-21	CL0296
ARUBRA_DN3646_c0_g1_i1_3	1	5,1	30,782	6,6268	PF02466.18	Tim17	74,6	6,30E-21	No_clan
ARUBRA_DN6310_c0_g1_i1_4	5	54	12,438	-2	PF00012.19	HSP70	157,4	3,70E-46	CL0108
ARUBRA_DN1384_c0_g1_i1_3	1	5	26,167	6,2667	PF08523.9	MBF1	85,2	2,80E-24	No_clan
ARHOMBI_DN14955_c0_g1_i1_2	1	24,3	8,2814	6,202					
ARHOMBI_DN49_c0_g2_i1_6	1	6	39,873	6,742	PF00574.22	CLP_protease	234,1	9,40E-70	CL0127
ARUBRA_DN8685_c0_g1_i1_3	1	9,6	19,437	7,6424	PF04371.14	PAD_porph	114,6	5,30E-33	CL0197
ARHOMBI_DN17696_c0_g1_i1_3	1	6,5	27,949	6,8387	PF02225.21	PA	44,5	1,10E-11	CL0364
ARUBRA_DN25420_c0_g1_i1_2	1	16	14,077	6,4161					
ARHOMBI_DN24508_c0_g1_i1_4	1	20,2	9,5998	7,3109	PF03952.15	Enolase_N	99,4	1,60E-28	CL0227

ARUBRA_DN13680_c0_g1_i1_6	1	12,6	12,762	6,1823					
ARUBRA_DN4241_c0_g1_i1_3	1	4,9	29,596	6,2449	PF03764.17	EFG_IV	137,3	2,00E-40	CL0329
ARHOMBI_DN1471_c0_g1_i1_6	3	12	34,74	-2	PF00635.25	Motile_Sperm	104,3	2,70E-30	CL0556
ARHOMBI_DN7801_c0_g1_i1_5	1	34,2	7,8541	6,9947					
ARHOMBI_DN4606_c0_g1_i1_1	1	11,2	22,089	6,6327	PF00928.20	Adap_comp_sub	210,3	3,00E-62	CL0448
ARUBRA_DN17255_c0_g1_i1_6	1	10,1	14,789	6,4207	PF08294.10	TIM21	61,1	9,60E-17	CL0455
ARUBRA_DN17467_c0_g1_i1_6	3	65,8	8,1818	8,5794					
ARUBRA_DN17174_c0_g1_i1_5	1	18,4	9,9715	7,3734	PF00406.21	ADK	39,7	4,60E-10	CL0023
ARHOMBI_DN2723_c0_g1_i1_1	3	21	19,538	6,8522	PF03949.14	Malic_M	131,4	3,20E-38	CL0063
ARUBRA_DN13395_c0_g1_i1_4	3	27,6	18,736	12,862	PF00189.19	Ribosomal_S3_C	88,7	2,60E-25	No_clan
ARUBRA_DN5089_c0_g1_i1_5	4	25,1	20,681	6,1823					
ARHOMBI_DN3292_c0_g1_i1_4	2	16,1	20,504	6,7303	PF00160.20	Pro_isomerase	74,3	1,20E-20	CL0475
ARHOMBI_DN8290_c0_g2_i1_4	3	17,6	37,05	6,3289	PF00270.28	DEAD	130,5	5,10E-38	CL0023
ARHOMBI_DN22455_c0_g1_i1_1	1	11,3	17,262	7,2025	PF00076.21	RRM_1	52,2	3,60E-14	CL0221
ARUBRA_DN3317_c0_g1_i1_3	1	4,5	31,578	24,759	PF07002.15	Copine	167,8	2,20E-49	CL0128
ARHOMBI_DN8153_c0_g1_i1_4	1	11	18,42	6,4581	PF02540.16	NAD_synthase	22,6	4,50E-05	CL0039
ARUBRA_DN19644_c0_g1_i1_4	1	23	11,385	7,0155					
ARUBRA_DN17529_c0_g1_i1_1	1	1,4	70,505	6,2776					
ARHOMBI_DN390_c0_g1_i1_5	3	10,9	40,935	11,564	PF00514.22	Arm	23,4	3,90E-05	CL0020
ARHOMBI_DN10092_c0_g1_i1_1	1	11,9	14,392	6,4283	PF00626.21	Gelsolin	24,1	2,20E-05	CL0092
ARHOMBI_DN15307_c0_g1_i1_4	1	20	12,351	6,3877					
ARHOMBI_DN9011_c0_g1_i1_2	1	14,3	9,7511	6,6545	PF06454.10	DUF1084	59,8	2,50E-16	No_clan
ARHOMBI_DN18489_c0_g2_i1_2	5	55,6	10,006	12,988	PF00071.21	Ras	105,3	2,20E-30	CL0023
ARHOMBI_DN1634_c0_g1_i1_6	2	19,1	21,237	7,4475	PF00155.20	Aminotran_1_2	44,1	1,40E-11	CL0061
ARUBRA_DN8885_c0_g1_i1_2	1	11	24,095	7,3531	PF01301.18	Glyco_hydro_35	157,6	5,40E-46	CL0058
ARHOMBI_DN16188_c0_g1_i1_3	1	20,4	11,374	8,1772	PF16507.4	BLM10_mid	52,8	2,40E-14	No_clan
ARUBRA_DN21545_c0_g1_i1_4	1	11,9	12,82	6,7613					
ARHOMBI_DN16333_c1_g1_i1_1	1	7,5	22,558	6,4841	PF00627.30	UBA	33,4	2,70E-08	CL0214
ARUBRA_DN4684_c0_g2_i2_5	12	36,1	53,758	-2	PF00009.26	GTP_EFTU	39,9	3,00E-10	CL0023
ARHOMBI_DN25309_c0_g1_i1_1	1	19,1	9,9887	7,2781					
ARHOMBI_DN7295_c0_g1_i1_3	1	6,3	24,798	6,3635	PF03446.14	NAD_binding_2	119,7	1,20E-34	CL0063
ARHOMBI_DN3332_c0_g1_i1_5	1	7,4	21,356	6,8744					
ARUBRA_DN12402_c0_g1_i1_2	2	31,4	16,625	13,173	PF00459.24	Inositol_P	45,2	7,70E-12	CL0171

ARHOMBI_DN9886_c0_g1_i1_3	1	11,6	14,258	6,865					
ARHOMBI_DN16830_c0_g1_i1_4	1	7,4	22,563	6,3149	PF03208.18	PRA1	145,9	5,70E-43	No_clan
ARHOMBI_DN19962_c0_g1_i1_1	2	11,8	26,617	11,936					
ARHOMBI_DN7050_c0_g1_i1_3	1	8,6	21,152	6,5836	PF00789.19	UBX	32,4	7,40E-08	CL0072
ARUBRA_DN8811_c0_g1_i1_6	3	19,2	26,126	6,6142	PF03030.15	H_PPase	362,2	5,70E-108	No_clan
ARUBRA_DN9001_c0_g1_i1_4	1	5	34,233	6,9077	PF13460.5	NAD_binding_10	67	1,80E-18	CL0063
ARHOMBI_DN17895_c0_g1_i1_5	1	17,8	11,181	6,402					
ARHOMBI_DN1601_c0_g1_i1_6	1	2,8	53,101	6,1496	PF13949.5	ALIX_LYPXL_bnd	219,7	4,60E-65	No_clan
ARHOMBI_DN22439_c0_g1_i1_5	1	17,1	15,406	6,538					
ARHOMBI_DN3123_c0_g1_i2_2	1	6,4	21,637	6,8971	PF14709.6	DND1_DSRM	58,2	7,00E-16	CL0196
ARUBRA_DN26477_c0_g1_i1_2	1	15	8,8939	6,4681					
ARHOMBI_DN15728_c0_g1_i1_3	1	10	22,607	7,1165	PF13839.5	PC-Esterase	117,7	7,10E-34	CL0264
ARUBRA_DN14653_c0_g1_i1_5	2	42,7	8,7008	11,16	PF14543.5	TAXi_N	58,1	1,20E-15	CL0129
ARUBRA_DN239_c0_g1_i1_1	2	35,2	7,4676	24,762					
ARUBRA_DN981_c0_g1_i1_2	1	7,2	24,327	6,5818					
ARHOMBI_DN6224_c0_g1_i3_2	2	7,1	46,864	17,519	PF00128.23	Alpha-amylase	57,5	1,60E-15	CL0058
ARHOMBI_DN43_c0_g1_i1_1	1	5,8	26,627	6,7552					
ARHOMBI_DN10061_c0_g1_i1_1	1	16,4	7,8677	6,9878					
ARUBRA_DN860_c0_g1_i1_4	1	11	17,424	6,1959					
ARUBRA_DN4926_c0_g2_i1_2	1	11,6	19,101	9,479	PF02466.18	Tim17	41,7	1,10E-10	No_clan
ARHOMBI_DN442_c0_g2_i1_6	1	9,2	22,454	7,8188	PF13489.5	Methyltransf_23	41,8	8,60E-11	CL0063
ARUBRA_DN7677_c0_g1_i1_5	2	6,8	57,302	11,22	PF00067.21	p450	188,5	1,80E-55	No_clan
ARHOMBI_DN23943_c0_g1_i1_5	2	21,3	20,566	11,913	PF12134.7	PRP8_domainIV	91,5	5,70E-26	No_clan
ARHOMBI_DN5334_c0_g2_i1_6	1	8,2	15,818	-2					
ARHOMBI_DN2144_c0_g1_i1_2	1	6,1	26,42	7,5768	PF02878.15	PGM_PMM_I	27,4	2,10E-06	No_clan
ARUBRA_DN17900_c0_g1_i1_4	1	9	17,183	7,4569	PF00240.22	ubiquitin	47,1	1,30E-12	CL0072
ARUBRA_DN7215_c0_g1_i1_2	1	9,9	20,176	6,8789	PF10236.8	DAP3	86,4	1,80E-24	CL0023
ARHOMBI_DN10966_c0_g1_i1_1	2	30,1	9,2931	15,175	PF00085.19	Thioredoxin	23,4	4,00E-05	CL0172
ARUBRA_DN4852_c0_g1_i2_5	5	9,3	70,485	6,2873	PF01474.15	DAHP_synth_2	652,1	2,90E-196	CL0036
ARUBRA_DN7820_c0_g1_i1_3	1	8,1	19,263	6,9581					
ARUBRA_DN3218_c0_g2_i1_1	1	3,5	39,702	6,3907	PF13561.5	adh_short_C2	200,1	3,60E-59	CL0063

ARUBRA_DN14060_c0_g1_i1_6	1	15,7	7,6455	6,3892					
ARHOMBI_DN3766_c0_g1_i1_2	1	9,2	20,274	6,5963	PF13561.5	adh_short_C2	53,9	1,70E-14	CL0063
ARHOMBI_DN19865_c0_g1_i1_4	1	21,5	9,9581	6,9255	PF08911.10	NUP50	36,8	4,20E-09	No_clan
ARHOMBI_DN27008_c0_g1_i1_5	1	15,5	9,4964	6,3907					
ARHOMBI_DN14983_c0_g1_i1_5	1	14	10,758	6,7056					
ARUBRA_DN23880_c0_g1_i1_2	1	6,4	23,594	6,4725	PF01039.21	Carboxyl_trans	181,5	2,30E-53	CL0127
ARHOMBI_DN17419_c0_g1_i1_1	1	14,2	12,325	6,4053					
ARUBRA_DN16616_c0_g1_i1_4	1	12,2	12,95	6,446	PF04815.14	Sec23_helical	41,8	6,90E-11	No_clan
ARUBRA_DN17646_c0_g1_i1_5	1	6,3	24,135	6,7583					
ARUBRA_DN22151_c0_g1_i1_2	3	62,2	9,2845	26,008	PF16113.4	ECH_2	46	4,70E-12	CL0127
ARHOMBI_DN14825_c0_g1_i1_2	2	44,3	7,5654	67,163					
ARHOMBI_DN16314_c0_g1_i1_1	1	17,2	14,138	6,3882	PF00226.30	DnaJ	86,8	7,20E-25	CL0392
ARHOMBI_DN3532_c0_g1_i1_4	1	8,9	22,194	6,6199					
ARHOMBI_DN4371_c0_g1_i1_5	1	7,3	22,767	6,4422	PF04564.14	U-box	104,4	2,50E-30	CL0229
ARUBRA_DN13912_c0_g1_i1_3	1	28,2	8,1233	6,3255					
ARHOMBI_DN17734_c0_g1_i1_4	1	13,2	10,417	6,3302	PF03129.19	HGTP_anticodon	26,4	5,40E-06	CL0458
ARHOMBI_DN21284_c0_g1_i1_3	1	9,7	16,547	6,712	PF13246.5	Cation_ATPase	57,8	8,30E-16	CL0137
ARUBRA_DN8408_c0_g1_i1_4	2	42	8,9988	13,897					
ARUBRA_DN8779_c0_g1_i1_1	1	8,8	18,007	6,861	PF14683.5	CBM-like	137,8	2,80E-40	CL0202
ARUBRA_DN85_c0_g1_i1_3	1	5	33,38	6,8716	PF00156.26	Pribosyltran	35,9	4,50E-09	CL0533
ARHOMBI_DN16378_c0_g1_i1_1	2	20,3	16,336	11,963					
ARHOMBI_DN22637_c0_g1_i1_5	1	20,5	9,0635	6,6632					
ARHOMBI_DN16961_c0_g1_i1_3	1	29,2	7,8485	6,2638					
ARUBRA_DN6264_c0_g1_i1_1	1	10,7	17,653	7,9226	PF00709.20	Adenylsucc_synt	69,2	2,80E-19	CL0023
ARHOMBI_DN6677_c0_g1_i1_3	1	16,7	13,701	6,4307	PF00293.27	NUDIX	26,4	5,20E-06	CL0261
ARHOMBI_DN15571_c0_g1_i1_5	1	5,3	30,892	6,6958					
ARUBRA_DN2280_c0_g1_i1_3	1	8,9	21,439	6,5476	PF00445.17	Ribonuclease_T2	131,2	4,50E-38	No_clan
ARHOMBI_DN5894_c0_g1_i1_5	1	6,7	22,51	6,2838	PF00888.21	Cullin	77,5	8,00E-22	No_clan
ARHOMBI_DN18104_c0_g1_i1_1	1	17,5	11,564	6,4867					
ARUBRA_DN9413_c0_g1_i1_3	1	4,8	36,98	6,7122	PF00175.20	NAD_binding_1	58,5	8,00E-16	CL0091
ARUBRA_DN8576_c0_g1_i1_3	1	23,3	7,0348	7,3319					
ARHOMBI_DN4497_c0_g1_i1_6	1	6,8	26,019	28,193	PF03931.14	Skp1_POZ	57,6	1,00E-15	CL0033
ARUBRA_DN7437_c0_g1_i1_1	2	21,3	17,202	11,989	PF06480.14	FtsH_ext	33,5	3,80E-08	No_clan

ARUBRA_DN6344_c0_g1_i1_3	1	7,3	20,866	6,2916	PF00696.27	AA_kinase	31,9	9,00E-08	No_clan
ARHOMBI_DN142_c0_g1_i2_6	1	4,8	23,367	7,1713	PF08534.9	Redoxin	61,1	8,70E-17	CL0172
ARHOMBI_DN2804_c0_g1_i1_5	1	10,9	14,343	-2					
ARUBRA_DN14140_c0_g1_i1_5	1	9,1	18,054	6,5197					
ARUBRA_DN20165_c0_g1_i1_6	1	12,8	13,721	6,6591					
ARUBRA_DN11522_c0_g1_i1_2	1	6,2	23,721	6,573					
ARUBRA_DN7178_c0_g1_i1_1	1	19,4	7,6033	6,2046	PF00928.20	Adap_comp_sub	57,9	9,10E-16	CL0448
ARUBRA_DN495_c0_g1_i1_6	1	15,7	10,573	-2	PF01138.20	RNase_PH	53,9	2,40E-14	CL0329
ARUBRA_DN15567_c0_g1_i1_3	1	24,7	8,121	6,4867	PF06419.10	COG6	72,8	1,60E-20	CL0295
ARHOMBI_DN20913_c0_g1_i1_5	1	8,7	20,006	6,5659	PF00270.28	DEAD	37,1	2,40E-09	CL0023
ARUBRA_DN19959_c0_g1_i1_6	1	9,3	20,642	6,3356					
ARUBRA_DN8310_c0_g1_i1_2	1	7,2	26,575	6,9499	PF01077.21	NIR_SIR	33	3,50E-08	No_clan
ARHOMBI_DN11012_c0_g1_i1_4	1	7,2	17,751	6,1995	PF02212.17	GED	89	1,50E-25	No_clan
ARUBRA_DN6936_c0_g1_i1_4	1	17,4	8,3042	6,7975					
ARHOMBI_DN21368_c0_g1_i1_6	2	31,4	8,2533	11,667					
ARUBRA_DN5364_c0_g1_i1_3	2	8	32,556	11,068	PF00400.31	WD40	25,6	1,50E-05	CL0186
ARUBRA_DN568_c0_g1_i1_3	1	8,3	22,292	6,5655	PF05193.20	Peptidase_M16_C	44,8	1,30E-11	CL0094
ARHOMBI_DN24822_c0_g1_i1_5	1	13,3	10,405	6,4663	PF00314.16	Thaumatin	81,5	6,70E-23	CL0293
ARHOMBI_DN8308_c0_g1_i1_3	1	6,8	21,184	6,2449	PF01602.19	Adaptin_N	53,6	1,30E-14	CL0020
ARHOMBI_DN249_c0_g1_i1_6	2	17,5	19,092	12,117	PF01423.21	LSM	39,8	2,50E-10	CL0527
ARHOMBI_DN12088_c0_g1_i1_5	2	43,6	10,684	13,395					
ARHOMBI_DN16872_c0_g1_i1_5	1	8,4	20,654	6,2507	PF01423.21	LSM	61,4	4,50E-17	CL0527
ARHOMBI_DN12473_c0_g1_i1_6	1	16,3	9,7599	6,6676					
ARUBRA_DN9724_c0_g1_i1_1	1	15,5	9,1646	6,6569					
ARHOMBI_DN11959_c0_g1_i1_2	1	4,6	21,225	6,1497	PF12327.7	FtsZ_C	102,5	1,10E-29	CL0442
ARUBRA_DN3899_c0_g2_i1_5	1	4,8	28,236	6,4706	PF00637.19	Clathrin	108,9	1,70E-31	CL0020
ARUBRA_DN9135_c0_g1_i1_4	1	6,5	21,71	6,6748	PF03997.11	VPS28	140,9	3,50E-41	CL0596
ARUBRA_DN3321_c0_g1_i1_1	1	9,5	16,885	6,2798					
ARUBRA_DN3221_c0_g1_i1_6	2	5,4	50,232	10,754	PF00490.20	ALAD	447,1	3,00E-134	CL0036
ARUBRA_DN7240_c0_g1_i1_1	1	7,2	26,543	6,4132	PF03178.14	CPSF_A	233,6	3,20E-69	CL0186
ARUBRA_DN25966_c0_g1_i1_5	1	16,2	12,456	6,3217	PF05701.10	WEMBL	140,8	5,30E-41	No_clan
ARHOMBI_DN2599_c0_g1_i1_4	1	11,9	14,603	6,1525	PF16656.4	Pur_ac_phosph_N	41,5	1,40E-10	CL0159

ARUBRA_DN13308_c0_g1_i1_1	1	23,7	7,966	32,423					
ARUBRA_DN10910_c0_g1_i1_6	1	12,1	14,706	6,4285	PF00282.18	Pyridoxal_deC	140,3	6,10E-41	CL0061
ARUBRA_DN24761_c0_g1_i1_3	1	12,3	12,023	7,4966					
ARHOMBI_DN11254_c0_g1_i1_1	1	12,5	9,5835	12,764					
ARUBRA_DN24634_c0_g1_i1_5	1	17,3	8,3904	6,764					
ARHOMBI_DN4130_c0_g1_i1_2	1	4,3	41,108	6,4323	PF04597.13	Ribophorin_I	311,8	8,80E-93	No_clan
ARHOMBI_DN2201_c0_g1_i1_2	1	17,4	13,95	8,2245	PF00542.18	Ribosomal_L12	80,6	7,20E-23	No_clan
ARUBRA_DN19418_c0_g1_i1_3	1	25,6	10,153	6,1954					
ARUBRA_DN1850_c0_g1_i1_3	2	8,1	34,434	11,265					
ARHOMBI_DN9657_c0_g1_i1_1	2	16,8	17,398	11,829					
ARUBRA_DN22015_c0_g1_i1_3	1	10,4	13,372	6,4662					
ARUBRA_DN21497_c0_g1_i1_5	1	8,6	19,698	6,6055					
ARHOMBI_DN17553_c0_g1_i1_3	4	64,1	9,9823	6,1707	PF00004.28	AAA	50,4	2,70E-13	CL0023
ARUBRA_DN23958_c0_g1_i1_3	1	7,9	20,589	6,4468					
ARHOMBI_DN6893_c0_g1_i1_1	1	6,1	27,657	6,8678					
ARUBRA_DN9664_c0_g1_i1_5	1	10,6	16,082	6,2247					
ARUBRA_DN3808_c0_g2_i1_1	1	4,3	21,007	6,3007	PF00255.18	GSHPx	121	1,40E-35	CL0172
ARUBRA_DN14331_c0_g1_i1_6	2	16,8	22,887	11,989	PF00013.28	KH_1	20,8	0,00023	CL0007
ARUBRA_DN209_c0_g1_i1_5	1	8	18,188	6,7994					
ARHOMBI_DN16878_c0_g1_i1_1	2	24,1	9,5058	11,342					
ARUBRA_DN3885_c0_g1_i1_1	1	8,1	18,963	6,3879	PF08695.9	Coa1	29,3	5,20E-07	CL0455
ARHOMBI_DN9575_c0_g1_i1_5	2	22,8	15,103	11,88					
ARHOMBI_DN4563_c0_g2_i1_3	1	8,3	20,174	6,5397	PF02806.17	Alpha-amylase_C	65	6,10E-18	CL0369
ARHOMBI_DN5164_c0_g1_i1_4	1	3,7	45,441	6,9002	PF00076.21	RRM_1	48,5	5,20E-13	CL0221
ARUBRA_DN2931_c0_g1_i1_4	1	2,8	50,96	6,4684	PF00128.23	Alpha-amylase	55,7	5,40E-15	CL0058
ARUBRA_DN8810_c0_g1_i1_3	2	9	44,499	12,328					
ARUBRA_DN27193_c0_g1_i1_3	1	11,9	13,929	6,8696					
ARHOMBI_DN2247_c0_g1_i1_2	1	5,3	33,402	6,4841	PF06775.13	Seipin	119,4	1,90E-34	No_clan
ARUBRA_DN25129_c0_g1_i1_1	1	11,7	11,983	6,6603	PF03061.21	4HBT	29,5	6,70E-07	CL0050
ARUBRA_DN7581_c0_g1_i1_1	1	14,6	11,164	-2					
ARUBRA_DN26635_c0_g1_i1_3	2	29,4	9,4868	11,889	PF00928.20	Adap_comp_sub	63,7	1,60E-17	CL0448
ARUBRA_DN25922_c0_g1_i1_4	1	16,2	8,7749	6,2866	PF08597.9	eIF3_subunit	48,7	8,40E-13	No_clan
ARHOMBI_DN16586_c0_g1_i1_6	1	11,6	17,46	7,3039	PF08356.11	EF_assoc_2	91,9	1,80E-26	No_clan

ARUBRA_DN23667_c0_g1_i1_3	1	15,7	9,4883	6,6917	PF00433.23	Pkinase_C	30,9	3,00E-07	No_clan
ARHOMBI_DN1477_c0_g1_i1_3	2	18,5	16,795	11,54	PF00749.20	tRNA-synt_1c	74,5	6,20E-21	CL0039
ARUBRA_DN23915_c0_g1_i1_1	1	9,8	13,538	6,6051	PF00153.26	Mito_carr	25,2	1,10E-05	No_clan
ARUBRA_DN16207_c0_g1_i1_4	1	7,5	31,015	7,1358	PF00149.27	Metallophos	38,2	2,00E-09	CL0163
ARUBRA_DN12100_c0_g1_i1_6	1	15,2	12,538	6,4841					
ARHOMBI_DN5013_c0_g1_i1_5	1	5,3	30,693	6,5098	PF03357.20	Snf7	122,7	1,00E-35	CL0235
ARHOMBI_DN17278_c0_g1_i1_1	2	19,8	19,199	11,345					
ARUBRA_DN8077_c0_g1_i1_3	1	9,2	14,428	6,6208	PF01521.19	Fe-S_biosyn	28,9	9,50E-07	No_clan
ARHOMBI_DN12156_c0_g1_i1_6	3	34,6	11,504	6,4207	PF00071.21	Ras	44,3	1,30E-11	CL0023
ARHOMBI_DN19746_c0_g1_i1_3	1	11,1	21,706	6,7482	PF02824.20	TGS	86,4	8,80E-25	CL0072
ARHOMBI_DN5681_c0_g1_i1_3	1	4,8	40,235	6,4383	PF12838.6	Fer4_7	48,4	9,40E-13	CL0344
ARHOMBI_DN9772_c0_g1_i1_3	1	6,3	20,752	6,7064	PF03091.14	CutA1	129,4	3,30E-38	CL0089
ARUBRA_DN2587_c0_g1_i1_2	1	25,3	9,027	7,6962					
ARHOMBI_DN14925_c0_g1_i1_1	1	29,9	7,5888	6,3313	PF00682.18	HMGL-like	43,9	1,90E-11	CL0036
ARHOMBI_DN13424_c0_g1_i1_2	1	26	8,5053	6,8061	PF05770.10	Ins134_P3_kin	57,5	1,20E-15	CL0179
ARHOMBI_DN17556_c0_g1_i1_2	1	20,8	14,731	6,4271	PF04526.12	DUF568	33,2	5,90E-08	No_clan
ARHOMBI_DN23552_c0_g1_i1_5	1	17,3	8,1703	6,2531					
ARHOMBI_DN2495_c0_g2_i1_3	1	11,5	16,742	6,9922	PF00076.21	RRM_1	24,7	1,40E-05	CL0221
ARUBRA_DN16642_c0_g1_i1_1	1	25,5	11,387	7,233					
ARUBRA_DN8504_c0_g1_i1_5	1	17,5	10,817	6,245	PF00076.21	RRM_1	36,2	3,60E-09	CL0221
ARHOMBI_DN3218_c0_g1_i1_5	2	8,4	37,493	12,088					
ARHOMBI_DN6191_c0_g1_i1_5	2	15,4	22,5	6,5758	PF01777.17	Ribosomal_L27e	104,5	2,70E-30	No_clan
ARUBRA_DN13074_c0_g1_i1_4	1	12,6	15,277	6,211	PF04442.13	CtaG_Cox11	168,6	8,50E-50	No_clan
ARHOMBI_DN2701_c0_g1_i1_1	1	12,7	12,95	6,8683	PF06414.11	Zeta_toxin	32,1	5,90E-08	CL0023
ARUBRA_DN13385_c0_g1_i1_1	1	22,1	8,134	6,2272	PF13839.5	PC-Esterase	80,3	1,80E-22	CL0264
ARHOMBI_DN4455_c0_g2_i1_5	1	9,9	20,603	6,9595	PF00962.21	A_deaminase	100,3	1,20E-28	CL0034
ARUBRA_DN1705_c0_g1_i1_4	1	7,6	20,946	6,4207	PF06046.12	Sec6	71,8	3,60E-20	CL0295
ARHOMBI_DN14374_c0_g1_i1_3	1	16,2	8,1622	6,2193					
ARUBRA_DN3623_c0_g1_i1_6	1	5,3	36,627	10,078	PF02020.17	W2	67,4	8,10E-19	CL0020
ARUBRA_DN6227_c0_g1_i1_3	1	8,2	17,531	6,4329					
ARUBRA_DN14347_c0_g1_i1_6	1	7,6	18,595	6,1784					
ARUBRA_DN4655_c0_g1_i1_4	7	25	35,913	6,8231	PF00071.21	Ras	209,9	1,50E-62	CL0023
ARUBRA_DN152_c0_g1_i1_6	1	6,5	27,194	6,6047	PF01039.21	Carboxyl_trans	270	3,30E-80	CL0127

ARUBRA_DN21454_c0_g1_i1_1	1	16,9	9,5277	6,1969	PF06427.10	UDP-g_GGTase	68,2	4,10E-19	No_clan
ARHOMBI_DN14749_c0_g1_i1_1	1	12,8	13,523	6,9694	PF04086.12	SRP-alpha_N	37,5	2,30E-09	No_clan
ARUBRA_DN1738_c0_g1_i1_5	1	16	9,3457	6,498					
ARHOMBI_DN6745_c0_g1_i1_6	3	13	32,115	6,4056	PF00378.19	ECH_1	60,4	1,50E-16	CL0127
ARHOMBI_DN9761_c0_g1_i1_5	1	7,5	21,222	6,2321	PF03016.14	Exostosin	107,8	5,50E-31	No_clan
ARHOMBI_DN16459_c0_g1_i1_4	1	5,5	32,489	6,6584	PF08540.9	HMG_CoA_synt_C	275	7,30E-82	CL0046
ARHOMBI_DN630_c0_g2_i1_1	1	6,5	27,41	7,1479	PF01798.17	Nop	46,7	2,50E-12	No_clan
ARUBRA_DN10120_c0_g1_i1_3	1	11,3	14,015	6,4501					
ARHOMBI_DN26737_c0_g1_i1_6	1	15,1	9,8642	6,254					
ARHOMBI_DN20055_c0_g1_i1_2	1	9	19,225	6,1838					
ARUBRA_DN68_c0_g2_i1_3	1	17,7	8,3284	6,71					
ARUBRA_DN18173_c0_g1_i1_5	1	11,3	15,645	6,9124	PF01625.20	PMSR	121,6	2,90E-35	No_clan
ARHOMBI_DN11266_c0_g1_i1_5	1	11,1	14,552	6,3406	PF16123.4	HAGH_C	90,4	7,60E-26	CL0381
ARUBRA_DN15293_c0_g1_i1_1	1	17,6	10,131	6,5968					
ARUBRA_DN16348_c0_g1_i1_1	1	11,8	12,08	33,456					
ARUBRA_DN5557_c0_g1_i1_3	1	9,8	13,697	56,422	PF00076.21	RRM_1	23,1	4,60E-05	CL0221
ARUBRA_DN807_c0_g1_i1_6	2	26,3	10,609	7,288	PF06172.10	Cupin_5	71,8	5,10E-20	CL0029
ARHOMBI_DN22251_c0_g1_i1_1	1	8	27,755	6,6448	PF03909.16	BSD	42,5	4,30E-11	No_clan
ARHOMBI_DN6086_c0_g2_i1_5	6	23,8	32,963	6,4425	PF00022.18	Actin	231,4	1,30E-68	CL0108
ARUBRA_DN15584_c0_g1_i1_1	1	21,3	8,2592	6,6421					
ARUBRA_DN23559_c0_g1_i1_2	1	18,5	10,896	6,7932					
ARHOMBI_DN3575_c0_g2_i1_3	11	48,9	29,076	7,4335	PF13419.5	HAD_2	102,8	2,10E-29	CL0137
ARUBRA_DN18865_c0_g1_i1_4	1	7,2	23,411	6,8237					
ARUBRA_DN81_c0_g1_i1_5	1	5,3	29,915	6,4207	PF13869.5	NUDIX_2	276,3	9,40E-83	CL0261
ARUBRA_DN17068_c0_g1_i1_4	1	8,9	17,743	6,8721	PF00180.19	Iso_dh	104,6	5,40E-30	CL0270
ARHOMBI_DN11773_c0_g1_i1_2	1	32,8	7,6231	7,3473					
ARHOMBI_DN15266_c0_g1_i1_2	1	8,2	18,191	6,2817	PF00226.30	DnaJ	86	1,30E-24	CL0392
ARHOMBI_DN19693_c0_g1_i1_6	1	7,2	21,691	6,2814	PF07859.12	Abhydrolase_3	40,6	2,30E-10	CL0028
ARHOMBI_DN21801_c0_g1_i1_4	1	21,1	7,4332	6,8725					
ARHOMBI_DN676_c0_g2_i1_2	1	6,4	25,13	6,4258					
ARHOMBI_DN6521_c0_g1_i1_4	1	21,2	9,2753	6,2244					
ARHOMBI_DN4350_c0_g1_i1_4	1	3,7	34,578	-2					
ARHOMBI_DN6943_c0_g1_i1_2	1	12,2	15,069	7,4946					

ARHOMBI_DN16004_c0_g1_i1_3	2	16,8	20,311	6,5234	PF00071.21	Ras	130,8	3,10E-38	CL0023
ARUBRA_DN26911_c0_g1_i1_3	2	25,2	12,892	12,088	PF14829.5	GPAT_N	126	3,90E-37	No_clan
ARHOMBI_DN7765_c0_g1_i1_6	1	6,4	21,016	6,4962	PF00149.27	Metallophos	89,7	3,40E-25	CL0163
ARUBRA_DN9287_c0_g1_i1_4	1	7,1	19,114	6,4731	PF00190.21	Cupin_1	129,9	5,40E-38	CL0029
ARUBRA_DN10301_c0_g1_i1_3	1	16,5	8,7287	6,1625					
ARHOMBI_DN25736_c0_g1_i1_6	1	25,3	9,1081	7,4809					
ARHOMBI_DN25307_c0_g1_i1_1	1	18,3	9,9898	7,9261					
ARHOMBI_DN827_c0_g1_i1_1	1	8,5	17,625	6,5368					
ARUBRA_DN5154_c0_g1_i1_1	1	6,7	18,756	6,1823					
ARHOMBI_DN10484_c0_g1_i1_1	1	13,7	10,751	6,6661	PF09753.8	Use1	114,7	5,20E-33	No_clan
ARUBRA_DN4965_c9_g2_i1_4	1	3,6	38,129	6,7056	PF01596.16	Methyltransf_3	342,2	7,00E-103	CL0063
ARHOMBI_DN650_c0_g2_i1_3	1	14,4	15,157	7,1951					
ARUBRA_DN19110_c0_g1_i1_2	1	8	25,226	10,201	PF01230.22	HIT	88,5	3,40E-25	CL0265
ARHOMBI_DN5597_c0_g2_i1_5	1	10,8	19,589	6,2488	PF00203.20	Ribosomal_S19	118,9	5,90E-35	No_clan
ARUBRA_DN21139_c0_g1_i1_2	1	17,8	12,067	7,0844	PF04050.13	Upf2	109,6	1,80E-31	CL0020
ARUBRA_DN3651_c0_g1_i1_3	1	9	15,6	6,572					
ARUBRA_DN460_c0_g1_i1_6	1	5,8	23,971	-2					
ARUBRA_DN26660_c0_g1_i1_1	1	12,5	15,151	-2					
ARHOMBI_DN2961_c0_g1_i1_6	1	7,7	21,766	6,1779	PF07011.10	DUF1313	134,5	8,00E-40	No_clan
ARUBRA_DN15712_c0_g1_i1_3	1	13,2	7,7689	6,3127					
ARHOMBI_DN5284_c0_g3_i1_5	2	28,8	16,054	6,8256	PF02782.15	FGGY_C	62,6	3,80E-17	CL0108
ARHOMBI_DN12176_c0_g1_i1_1	1	24,3	7,9746	6,8286					
ARUBRA_DN4419_c0_g1_i1_1	2	9,9	28,431	6,3895					
ARUBRA_DN3086_c0_g1_i1_4	1	6	24,843	6,4082	PF01126.19	Heme_oxygenase	46,6	3,10E-12	CL0230
ARUBRA_DN5853_c0_g1_i1_3	1	18,4	8,5119	-2					
ARHOMBI_DN12506_c0_g1_i1_1	1	15,5	8,52	6,4374					
ARUBRA_DN10624_c0_g1_i1_5	3	17,6	16,384	24,582	PF00179.25	UQ_con	82,5	1,90E-23	CL0208
ARHOMBI_DN13880_c0_g1_i1_4	1	8,6	11,755	8,7837	PF00079.19	Serpin	77,8	8,90E-22	No_clan
ARHOMBI_DN23964_c0_g1_i1_2	1	17,5	8,2383	9,5011	PF01915.21	Glyco_hydro_3_C	44,8	1,30E-11	No_clan
ARUBRA_DN7424_c0_g1_i1_6	1	4	33,979	-2					
ARHOMBI_DN5795_c0_g1_i1_5	1	6	23,31	6,4617					
ARHOMBI_DN6070_c0_g2_i1_6	1	6,6	26,148	-2					

ARUBRA_DN5014_c0_g1_i1_2	1	4	28,8	9,0182	PF00487.23	FA_desaturase	35,6	8,10E-09	No_clan
ARHOMBI_DN8315_c0_g1_i1_3	1	11,9	13,213	6,1592					
ARUBRA_DN13376_c0_g1_i1_4	1	7,6	20,426	-2					
ARUBRA_DN21106_c0_g1_i1_3	1	11,3	13,019	6,8302					
ARUBRA_DN22162_c0_g1_i1_5	1	5	21,493	-2					

Supplementary Table S8: Intensities of identified Alnus pollen proteins in different preparations

Protein IDs	Intensity fasp1	Intensity fasp2	Intensity fasp3	Intensity fasp4	Intensity acetone1	Intensity acetone2	Intensity acetone3	Intensity acetone 4	Intensity tca1	Intensity tca2	Intensity tca3	Intensity tca4	Intensity zc1	Intensity zc2	Intensity zc3
ARUBRA_DN3160_c0_g1_i1_1	1061100000	2641200000	1206400000	2006300000	0	11585000	36396000	894610	180950000	0	0	0	8461500	5028700	3068500
ARHOMBI_DN6124_c0_g1_i1_4	371020000	455130000	288120000	263420000	152230000	80628000	132610000	98223000	471800000	568810000	294330000	445140000	39707000	33589000	26616000
ARUBRA_DN4553_c0_g1_i1_3	432810000	419920000	463850000	345050000	75385000	86913000	248290000	82937000	560750000	192840000	216980000	265850000	12263000	29634000	7550500
ARUBRA_DN4458_c0_g1_i1_5	392540000	393380000	279150000	271110000	54934000	48500000	153020000	49986000	631750000	344100000	377220000	389190000	14191000	19954000	20328000
ARHOMBI_DN14767_c0_g1_i1_6	1039600000	654050000	838610000	806830000	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN4969_c0_g1_i11_2	395680000	436250000	512780000	450530000	19613000	13258000	134010000	6035800	473150000	254230000	244210000	257480000	10247000	3716400	3988900
ARUBRA_DN4696_c0_g1_i2_3	321470000	331240000	300860000	480090000	80763000	77592000	203550000	14894000	665250000	139740000	82910000	140190000	9979000	25765000	6637300
ARUBRA_DN4914_c0_g1_i1_2	452360000	371130000	414840000	318400000	78445000	30760000	157160000	28947000	442640000	63171000	60370000	25151000	40006000	35232000	32582000
ARUBRA_DN3195_c0_g1_i1_6	361310000	236020000	326970000	190050000	9890100	40214000	81867000	19500000	300140000	247870000	386930000	246300000	15240000	2575600	0
ARUBRA_DN2052_c0_g1_i1_5	340510000	362180000	362860000	273850000	66137000	65653000	122740000	49046000	493450000	44273000	34762000	33307000	24538000	23466000	18860000
ARUBRA_DN17603_c0_g1_i1_4	385160000	357290000	387510000	342020000	20919000	14143000	19354000	8420700	138760000	103360000	88890000	95578000	2553200	1217700	3400100
ARUBRA_DN23118_c0_g1_i1_1	61447000	63331000	94898000	78802000	56170000	40050000	145550000	27335000	274720000	285850000	334170000	259480000	3216800	4893400	4636000
ARHOMBI_DN3404_c0_g1_i1_5	178080000	169780000	149540000	83203000	62908000	30610000	71573000	53214000	219580000	187970000	225080000	179710000	8049000	8846400	9912300
ARHOMBI_DN8875_c0_g1_i1_3	235280000	201350000	176840000	124030000	85340000	53410000	115820000	75799000	265050000	41671000	37655000	31854000	24419000	42316000	13452000
ARUBRA_DN10871_c0_g1_i1_1	154790000	154340000	124570000	96929000	77477000	46010000	110650000	57486000	322810000	47595000	56542000	8884400	11791000	18524000	15627000
ARHOMBI_DN3889_c0_g1_i1_5	103030000	134330000	95783000	78817000	30083000	29954000	62253000	34364000	240490000	155540000	86481000	143960000	21513000	24219000	20695000
ARHOMBI_DN5373_c0_g1_i1_4	108700000	125670000	137370000	88604000	50410000	24241000	23358000	32703000	146500000	113820000	156500000	152570000	11414000	19850000	17841000
ARUBRA_DN4854_c0_g1_i1_3	113400000	186530000	262460000	104380000	68381000	19316000	25489000	17503000	265080000	28836000	31602000	23823000	13448000	8605600	2569500
ARUBRA_DN1249_c0_g2_i1_2	81555000	82668000	81034000	68471000	5472700	24770000	60942000	30107000	86199000	198690000	207690000	179650000	11368000	5353200	9505700
ARHOMBI_DN5306_c0_g1_i1_6	112020000	114550000	142080000	89300000	49132000	40923000	35760000	18088000	214120000	107290000	57851000	64540000	19326000	15515000	22112000
ARUBRA_DN5302_c0_g1_i1_5	78767000	94417000	93671000	48957000	45421000	19905000	45125000	14395000	108260000	159010000	130990000	120020000	32651000	19668000	6106400
ARHOMBI_DN26299_c0_g1_i1_4	156570000	180110000	176540000	196630000	3681900	12200000	25668000	42360000	165300000	0	0	0	4321600	5126200	0
ARHOMBI_DN5459_c0_g1_i1_2	115170000	132660000	130700000	67730000	54173000	30167000	63178000	30286000	85989000	71333000	60497000	52248000	15065000	20501000	17543000
ARHOMBI_DN5273_c0_g1_i1_3	67265000	202870000	26145000	72658000	2675300	35784000	48867000	1779800	163450000	5990600	89952000	8658700	276510	642330	408640
ARHOMBI_DN1417_c0_g1_i1_5	30830000	26115000	49724000	25564000	1486400	19638000	18436000	2554100	63359000	159150000	153780000	120950000	9069500	10021000	5329600
ARHOMBI_DN5581_c0_g1_i1_3	112120000	102060000	122980000	79202000	24373000	9183000	17160000	8849300	76745000	31966000	50896000	53575000	1076100	2452700	662240

ARUBRA_DN2313_c0_g1_i1_3	0	187880000	162520000	13176000	976170	164360	91125	0	100630000	0	0	0	59539000	27919000	27250000
ARUBRA_DN9810_c0_g1_i1_4	44356000	18005000	43688000	10535000	20609000	23938000	24407000	45322000	83884000	65962000	59561000	102850000	5585900	7064300	3328500
ARHOMBI_DN6211_c0_g2_i1_6	68323000	72259000	66397000	38722000	24517000	13176000	33010000	15120000	52636000	42920000	53477000	51809000	4524700	5057500	5242000
ARUBRA_DN22898_c0_g1_i1_5	46532000	45715000	45783000	30955000	8583400	4099400	12619000	4536100	35601000	29022000	62853000	60653000	44286000	50862000	37653000
ARUBRA_DN2253_c0_g1_i1_1	31400000	37161000	45465000	17998000	14713000	5196800	13377000	19864000	71171000	90443000	66373000	51194000	25067000	17084000	12335000
ARHOMBI_DN4873_c0_g1_i1_4	34251000	53163000	52503000	52523000	24885000	13950000	23766000	25258000	81219000	8223300	6874700	5468800	36518000	35418000	20077000
ARUBRA_DN18206_c0_g1_i1_4	49764000	49073000	57719000	51238000	21681000	11724000	65496000	6611000	120890000	0	0	0	7557100	15483000	9468200
ARUBRA_DN6222_c0_g1_i1_5	40235000	43601000	43221000	38619000	22470000	9371200	31322000	29511000	64675000	42271000	46071000	27557000	5688400	3880400	5617300
ARHOMBI_DN5949_c0_g2_i1_6	17089000	15019000	16329000	14292000	10580000	3841300	8862900	10514000	49406000	77089000	62272000	45398000	44606000	40617000	37029000
ARHOMBI_DN4456_c0_g1_i1_5	40564000	41802000	40220000	27606000	19045000	11842000	28903000	19354000	62297000	48283000	51866000	34385000	6489900	6214700	6193400
ARUBRA_DN390_c0_g1_i1_5	16271000	23876000	34268000	13369000	23118000	11518000	24490000	15539000	50193000	88859000	39882000	70311000	8995800	13455000	5833800
ARUBRA_DN4992_c0_g1_i1_3	23845000	26470000	27480000	34217000	22661000	7968900	23288000	13591000	98104000	44663000	49111000	44429000	2613900	6738700	3738300
ARHOMBI_DN5841_c0_g1_i1_5	51193000	50882000	39024000	28296000	12654000	6898900	14915000	6539600	32422000	47530000	44138000	42503000	15586000	16163000	11837000
ARHOMBI_DN6196_c0_g1_i2_5	51772000	60847000	62352000	69479000	2815000	5171600	7099500	12066000	53793000	17980000	21375000	17825000	2181200	1285100	15833000
ARHOMBI_DN3043_c0_g1_i1_4	43013000	38438000	26615000	50506000	13811000	5959400	11948000	25237000	58947000	7563000	55701000	49773000	626390	0	0
ARUBRA_DN4475_c0_g1_i1_2	52294000	51715000	55577000	41210000	3910900	3952600	33320000	14951000	75241000	4840200	12782000	13111000	3283000	7622800	9896800
ARUBRA_DN1141_c0_g1_i1_1	28515000	26734000	25609000	18311000	10657000	7363900	14922000	12946000	36131000	57015000	58997000	63515000	0	2116600	0
ARHOMBI_DN3285_c0_g1_i1_6	27553000	35247000	32364000	29150000	4922200	8071100	13696000	6169000	56560000	40917000	43694000	40254000	5196000	5584500	2469500
ARUBRA_DN10174_c0_g1_i1_6	29945000	33669000	33440000	38753000	14580000	8961800	20730000	38190000	123590000	0	0	0	3508600	2473100	2469100
ARHOMBI_DN7524_c0_g1_i1_6	24002000	24423000	22655000	22384000	14551000	5277900	6252400	7983900	70035000	31335000	31983000	65423000	2133200	3314600	11417000
ARHOMBI_DN4459_c0_g1_i1_3	23985000	26044000	23403000	23336000	32955000	10656000	14361000	21859000	122820000	10833000	0	9073300	4015000	4351400	4525700
ARHOMBI_DN6146_c1_g1_i1_4	11196000	13825000	10603000	8820400	9285300	3362800	2478900	7955000	40390000	43718000	21563000	46917000	29935000	33930000	46186000
ARUBRA_DN4074_c0_g1_i1_4	36920000	33098000	62677000	41122000	4361600	2221800	29640000	372300	93714000	0	0	0	6839100	1542600	2885100
ARHOMBI_DN3575_c0_g1_i1_3	9024600	9261700	9646400	19496000	6771500	6101800	10916000	25087000	60145000	54421000	33970000	59021000	1576500	0	1916800
ARHOMBI_DN4328_c0_g1_i1_6	36525000	38359000	20172000	41033000	13187000	8516000	23340000	28382000	62555000	0	0	0	9894100	10518000	8336100
ARUBRA_DN411_c0_g1_i1_5	22323000	17260000	25327000	25022000	10720000	5439700	15894000	1244300	24479000	62547000	45682000	38736000	1249400	2007800	2174000
ARHOMBI_DN3323_c0_g1_i1_4	9370700	7698600	9910200	11714000	0	0	3310200	4830900	67762000	52235000	66415000	62730000	459890	0	1441400

ARHOMBI_DN5928_c0_g3_i2_6	26272000	26395000	33886000	26205000	8624000	0	8665300	8285900	34953000	39548000	43358000	34602000	0	0	0
ARUBRA_DN4841_c0_g1_i1_6	25329000	20634000	15335000	13292000	17409000	10873000	21728000	9639600	93083000	33209000	4281800	12177000	1934800	1037800	2454000
ARHOMBI_DN6080_c1_g1_i1_1	35087000	29397000	94885000	26409000	16167000	7318200	12233000	10813000	35506000	2618800	0	0	3336100	1428300	4746100
ARUBRA_DN16244_c0_g1_i1_2	12669000	13945000	15490000	7609700	6576100	3896900	5139000	5860100	24190000	55357000	33903000	39537000	13454000	20068000	19580000
ARUBRA_DN18719_c0_g1_i1_2	17955000	40686000	36592000	22555000	5065900	6378400	4306000	0	30831000	32670000	60971000	0	5850500	6079700	6910900
ARHOMBI_DN4484_c0_g1_i1_2	21353000	21394000	22109000	23191000	15776000	6467300	11514000	13302000	55486000	22455000	32746000	23030000	1549200	2938200	2969200
ARHOMBI_DN5698_c2_g1_i1_5	11061000	13110000	13186000	12764000	2388800	3994500	8266900	6212200	10669000	55078000	64897000	57089000	0	301390	0
ARHOMBI_DN15379_c0_g1_i1_6	23129000	24540000	25164000	15742000	6063700	3977300	8877700	9978100	31876000	36323000	29045000	36584000	2195800	310300	1588000
ARUBRA_DN10745_c0_g1_i1_4	43220000	42459000	51260000	48273000	10345000	5504600	0	0	41599000	0	0	0	2549600	0	0
ARUBRA_DN17745_c0_g1_i1_5	26581000	28479000	30373000	41494000	15871000	7298000	18346000	20489000	50673000	232440	0	0	0	0	0
ARUBRA_DN16936_c0_g1_i1_5	13519000	11231000	14106000	6898300	19295000	4679300	11247000	19202000	32737000	33892000	31245000	38055000	1530500	1445300	134410
ARUBRA_DN4620_c0_g1_i1_1	8687100	9064900	10392000	8573500	2507000	683740	3458000	6090000	15845000	25611000	39455000	31768000	24564000	27657000	24154000
ARUBRA_DN4102_c0_g1_i1_3	3749300	6992000	4495100	4696600	5967000	1564600	2009800	5160400	16229000	22792000	34741000	64071000	25618000	22175000	15751000
ARHOMBI_DN9782_c0_g1_i1_2	38656000	26059000	39750000	22076000	4538700	2293600	0	8134200	57954000	0	0	0	11525000	11381000	2217100
ARUBRA_DN4847_c0_g2_i2_1	19444000	20798000	21633000	18344000	10612000	7574100	16043000	15833000	35146000	8676500	12419000	11206000	7140700	6765300	6295200
ARUBRA_DN5827_c0_g1_i1_2	0	0	0	0	24467000	19401000	35166000	2262600	75554000	1480300	16003000	15129000	3250300	5301600	6773500
ARHOMBI_DN3150_c0_g1_i1_6	22682000	18572000	17421000	11006000	12122000	1576600	4175600	5409000	25395000	24899000	24992000	17082000	4114900	6449500	6451600
ARHOMBI_DN3869_c0_g1_i1_1	16734000	15040000	14646000	14210000	7914700	4063900	15206000	11424000	44967000	19508000	12096000	18440000	0	1335300	1189300
ARHOMBI_DN4569_c0_g1_i1_2	15006000	15418000	16752000	19229000	6795200	5303600	11518000	9013100	20761000	19879000	25412000	23748000	4684400	2976300	0
ARHOMBI_DN8000_c0_g1_i1_4	10119000	10738000	8437600	3420700	5573100	1098100	7007500	2858400	16895000	39684000	27512000	26790000	9784600	9837000	11614000
ARHOMBI_DN10026_c0_g1_i1_5	12948000	6289700	8026100	4238700	17441000	8390600	6788300	6167300	34351000	23745000	35896000	21571000	351540	2988400	555210
ARHOMBI_DN3561_c0_g2_i1_2	14873000	13785000	15237000	12225000	16833000	4464300	23936000	25190000	37751000	9125900	0	10031000	1417600	1967100	1006700
ARHOMBI_DN18818_c0_g1_i1_2	9897100	9985300	6506200	4068300	0	4001900	10592000	6131500	13468000	35542000	39517000	32655000	4195100	3969900	6018400
ARUBRA_DN19744_c0_g1_i1_2	22940000	23568000	29379000	20677000	6448200	2172000	16301000	8631400	35073000	7607000	3155700	5852900	217150	1950700	1539400
ARHOMBI_DN5210_c0_g1_i1_5	5816300	8525300	0	32689	0	0	0	0	0	63302000	0	83343000	7033800	7757200	9063500
ARHOMBI_DN5071_c0_g1_i1_6	1962700	2989000	1805600	1668100	1381900	140680	724080	655050	2191300	42679000	46407000	42900000	9113500	12781000	8399000
ARUBRA_DN24356_c0_g1_i1_4	25767000	29058000	26337000	13351000	4333400	5296000	10102000	2585100	19749000	12193000	14250000	6558100	3141200	1896900	1096700

ARHOMBI_DN25271_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	61827000	59941000	51342000	0	0	0
ARUBRA_DN4454_c0_g1_i1_2	16297000	15365000	16295000	37390000	3914700	1112200	4010700	7703100	38443000	10973000	0	0	3927800	8268000	6548000
ARHOMBI_DN6208_c0_g1_i2_5	2433600	3676500	2920400	4124700	197980	331550	0	142140	5553300	1573500	2934600	1923400	41400000	62119000	39178000
ARHOMBI_DN1745_c0_g1_i1_2	12666000	23898000	25776000	21061000	11833000	8693500	17659000	16482000	20686000	0	4940900	0	1137000	1343600	409580
ARUBRA_DN21566_c0_g1_i1_2	18312000	18549000	19662000	16240000	3673900	1010000	9674500	5799300	26495000	12295000	9269900	12716000	3519200	2716300	3001300
ARUBRA_DN4108_c0_g1_i1_5	18883000	20919000	23548000	10699000	11276000	5371800	13688000	9442500	20305000	6967400	7196500	6599100	1304100	1207600	3275000
ARHOMBI_DN5571_c0_g1_i1_5	4553800	4323800	5658700	3491800	8366800	616870	9525600	10342000	15072000	9656400	8195700	23388000	16075000	11149000	28902000
ARUBRA_DN4060_c0_g2_i1_2	15653000	12846000	19260000	13310000	9919700	4726600	12824000	11646000	30301000	10294000	9035500	8375600	0	0	691880
ARHOMBI_DN6185_c1_g1_i1_5	24830000	0	24099000	80878000	0	0	0	5053300	16912000	0	0	516620	0	0	0
ARHOMBI_DN5260_c0_g1_i1_6	19465000	24039000	28099000	13754000	2036500	2183400	6291500	2183900	14955000	6983500	8196600	3291700	3221200	8881000	8582000
ARHOMBI_DN6086_c1_g1_i1_6	12347000	14152000	7447700	17543000	387140	0	0	4429400	2592000	1096300	0	0	23369000	40119000	27956000
ARUBRA_DN4124_c0_g1_i1_3	563360	468010	4530700	2199400	5918800	0	12439000	1956200	253010	0	0	0	49349000	50676000	22732000
ARHOMBI_DN6236_c1_g1_i3_6	11775000	15454000	16201000	12980000	10937000	6252000	9927600	7960500	25811000	8108200	5126700	6381500	3668200	3127200	6290900
ARHOMBI_DN5869_c0_g1_i1_6	11907000	9499400	7792900	13445000	713710	0	4760000	8227700	22647000	4045700	6575200	3765400	17119000	19685000	13545000
ARUBRA_DN4641_c0_g1_i1_2	3486100	2573800	3506400	5327700	0	662980	692060	1210400	12626000	2763000	2524000	3381000	29936000	48844000	25544000
ARUBRA_DN23856_c0_g1_i1_3	17471000	16178000	10086000	4763600	8535900	7997700	16950000	6890600	15223000	6186000	12990000	10825000	1303000	2571200	3685500
ARHOMBI_DN5685_c0_g2_i1_3	2705800	3101900	3127500	4926400	1398500	176090	289540	1930700	11281000	1301500	1819300	0	27258000	26510000	55536000
ARUBRA_DN3590_c0_g2_i1_3	14992000	14280000	18615000	7238400	3634400	3073800	7817400	8534200	22179000	0	996550	33166000	1617800	1548700	3456900
ARHOMBI_DN3136_c0_g1_i1_1	19751000	21551000	26833000	14574000	3057100	1321100	3178900	791370	12062000	8954000	1717100	8148500	5707700	6281800	7075800
ARUBRA_DN4556_c0_g1_i2_4	17444000	23618000	22519000	12758000	3290700	1646200	3038000	347880	12218000	0	6280600	2289200	8336000	13830000	13380000
ARHOMBI_DN24422_c0_g1_i1_5	10857000	9504700	15841000	4934400	0	3369600	6121700	3155700	13056000	35132000	0	21920000	5485500	5739600	4099000
ARUBRA_DN990_c0_g1_i1_1	3154500	3772900	6205200	6086100	6879400	1767200	7612100	14997000	28491000	0	19541000	24953000	7483500	2331300	5369400
ARUBRA_DN1071_c0_g1_i1_2	16086000	9443400	14825000	13264000	3645900	1448500	5756000	6738800	28516000	14840000	8102100	12529000	79696	1703900	1029000
ARUBRA_DN2969_c0_g1_i1_3	19920000	13928000	20471000	12811000	5882900	8832300	3943100	15080000	27703000	0	0	0	4507700	2832200	1333800
ARHOMBI_DN4165_c0_g1_i1_1	12432000	15798000	9022500	0	0	0	3971300	0	16034000	24778000	27775000	22168000	0	0	1484100
ARHOMBI_DN5934_c0_g1_i1_3	2484000	2416600	2999200	4641300	0	873390	193030	1520800	5613900	8807500	8487100	4995100	35958000	28228000	25371000
ARHOMBI_DN5622_c0_g1_i1_3	2022200	2005000	2506900	4028800	5508700	1041500	13010000	14175000	23346000	0	0	0	25687000	28048000	11004000

ARHOMBI_DN4656_c0_g1_i1_6	8853600	12477000	11233000	3064900	4274300	0	1003100	2035700	16581000	24524000	24208000	16440000	426950	3311400	3269100
ARHOMBI_DN6034_c0_g1_i2_3	1008700	1077800	305850	2534200	1535900	128240	292220	1620500	0	731250	1431800	610300	50105000	44007000	24779000
ARHOMBI_DN6068_c0_g1_i2_3	450280	155170	0	133990	0	521610	1180200	164050	0	0	0	0	34703000	48763000	43800000
ARHOMBI_DN1849_c0_g1_i1_3	10204000	10147000	8950300	9088900	762630	0	0	716760	5031100	4499800	30778000	18266000	7115200	14361000	8593200
ARUBRA_DN8471_c0_g1_i1_3	22585000	12497000	18926000	30589000	0	0	0	0	0	0	43053000	0	0	0	0
ARUBRA_DN2937_c0_g1_i2_1	3610100	3072300	2868600	6840900	607730	599540	672570	2315300	4614300	1472800	0	0	39593000	37665000	23567000
ARUBRA_DN6062_c0_g1_i1_1	3547500	5089300	3054600	3586700	18379000	6305100	12182000	13205000	17950000	13918000	21082000	1348500	2788900	983880	3127000
ARHOMBI_DN5785_c0_g1_i1_4	9735500	10468000	10682000	21373000	1717100	2373700	1305700	10980000	49130000	0	0	0	3447900	614810	3710000
ARHOMBI_DN3876_c0_g1_i1_6	12642000	12690000	9158700	10811000	9729200	7733400	6984500	6048600	23145000	7358500	4621200	5583800	2702600	1500900	2075600
ARHOMBI_DN6149_c0_g1_i1_6	9490100	7846700	3747000	12387000	850140	211660	3898800	3712100	30501000	19669000	14932000	10647000	936680	2810700	814990
ARUBRA_DN6670_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	61617000	60664000	0	0	0	0
ARHOMBI_DN6225_c0_g2_i1_5	854780	728410	206830	839310	0	0	0	0	905960	0	448820	0	36354000	46573000	32535000
ARUBRA_DN4747_c0_g1_i1_6	6345300	6503800	6589500	7374200	2167500	1331100	1185900	5629000	13505000	47342000	9539300	8976500	514780	534450	91377
ARHOMBI_DN5137_c0_g1_i1_5	16330000	16926000	11894000	11803000	0	3591000	3748400	1134000	19545000	7788900	15632000	6741100	0	221780	226920
ARUBRA_DN18006_c0_g1_i1_4	15640000	18289000	19387000	10651000	8249800	3370700	4252000	2578500	29116000	0	0	0	1399300	1652300	875050
ARHOMBI_DN2797_c0_g1_i1_2	7820000	5800800	7666200	4049400	7759000	2952400	2907100	1705500	20021000	23618000	13235000	12732000	1504900	1434200	1783500
ARHOMBI_DN3646_c0_g1_i2_4	12370000	8138200	9070100	9551300	8060800	3903200	3142800	2366400	12563000	9696300	18192000	5833700	5842500	0	5216700
ARHOMBI_DN6264_c0_g1_i4_2	9836000	10316000	10235000	23206000	1370100	0	1484100	6206500	46842000	1446300	0	1292900	350890	554480	508340
ARUBRA_DN1274_c0_g1_i1_4	15303000	16160000	18874000	12472000	1369800	0	5493400	1570400	7784000	4679500	9564000	8215000	2394800	3374400	6224700
ARHOMBI_DN7316_c0_g1_i1_3	0	55098	0	0	0	0	0	0	0	43203000	38689000	31356000	0	0	0
ARUBRA_DN13722_c0_g1_i1_3	0	0	0	0	41630000	0	0	49299000	0	0	0	0	10140000	0	10019000
ARUBRA_DN4746_c1_g2_i1_3	12107000	15627000	19773000	19102000	4107000	4429400	5896200	5884200	22099000	0	0	0	717970	617230	732280
ARHOMBI_DN11262_c0_g1_i1_4	13939000	14943000	24445000	13665000	0	0	0	0	6784400	24503000	0	0	4115600	3978600	4467600
ARHOMBI_DN4307_c0_g1_i1_5	70550	221250	0	949800	0	0	0	213120	0	0	0	0	26439000	46209000	36590000
ARUBRA_DN1657_c0_g1_i1_5	18204000	19366000	15822000	785200	0	0	1473700	18543000	27867000	304220	0	5981300	1598300	0	0
ARHOMBI_DN16963_c0_g2_i1_3	18688000	17994000	21585000	9590900	9789300	2918700	0	8268600	17627000	0	0	0	0	0	1185900
ARHOMBI_DN5659_c0_g1_i1_3	17480000	15623000	16603000	7743200	6776500	4204600	10389000	6605300	19064000	0	0	0	410500	1052700	1414100

ARHOMBI_DN9830_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	36800000	36412000	31623000	0	0	0
ARHOMBI_DN7974_c0_g1_i1_2	12964000	11556000	11244000	0	1972300	0	3836500	382100	4560200	30936000	11409000	8089700	0	4156600	0
ARHOMBI_DN5417_c0_g1_i1_4	54502	2330800	34663	130140	408920	0	0	230600	1295000	0	0	0	28022000	36045000	32452000
ARHOMBI_DN753_c0_g1_i1_1	1818700	3698700	2922200	4284500	1052500	0	1383200	2325400	14356000	0	1213200	0	19227000	19423000	29129000
ARUBRA_DN4963_c0_g1_i2_5	24234000	20185000	17966000	11065000	637270	1474100	3555100	0	3759900	0	0	0	14959000	2985200	0
ARHOMBI_DN24139_c0_g1_i1_4	4526300	4611400	9242900	18037000	3806800	3250800	11450000	16783000	24730000	0	0	0	1914800	1270400	0
ARUBRA_DN18820_c0_g1_i1_4	1513000	3385100	2694300	1515900	6404900	863140	2131400	5725100	20713000	11438000	15666000	10860000	5874600	5181700	5242500
ARUBRA_DN325_c0_g2_i1_1	7183100	8047800	8672300	6214100	4700100	4173100	0	3195600	21983000	22750000	0	65314	4394800	4652800	2693000
ARHOMBI_DN13323_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	48797000	0	48423000	0	245900	0
ARUBRA_DN1786_c0_g1_i1_1	14259000	13558000	14949000	5847200	5299500	2679400	4634700	5314800	12107000	0	0	0	6006200	5969300	6420400
ARUBRA_DN2535_c0_g1_i1_5	165870	71957	0	352370	0	0	0	127170	0	0	0	0	34700000	40475000	21051000
ARHOMBI_DN6004_c0_g1_i1_1	8882000	8529000	9913600	3298100	8575000	3121800	7761900	6067200	14145000	1045400	0	9592600	6595200	5975000	2312700
ARHOMBI_DN6257_c0_g1_i1_3	277110	503580	646150	0	0	0	677230	791020	580170	461380	0	0	27046000	37088000	27568000
ARHOMBI_DN4827_c0_g1_i1_1	0	0	0	0	0	0	0	0	93910000	0	0	0	121550	460050	370100
ARHOMBI_DN5844_c0_g1_i1_3	7066600	4999600	11265000	9443300	0	2105400	0	0	59695000	0	0	0	0	0	0
ARHOMBI_DN5686_c0_g1_i1_6	607850	691940	749730	723620	668740	0	482850	0	0	0	0	0	33724000	35963000	20489000
ARUBRA_DN3412_c0_g1_i1_6	2985000	3181500	7402000	466860	8733400	4111100	11098000	11536000	19707000	6532700	5780000	7241700	2290700	462750	1414000
ARHOMBI_DN9161_c0_g1_i1_5	0	88838000	0	0	0	0	0	0	0	0	0	0	0	0	1116100
ARUBRA_DN21065_c0_g1_i1_6	6049600	5537300	7718700	6158500	0	0	10920000	15795000	30874000	0	0	0	4851400	1368500	44595
ARUBRA_DN11174_c0_g1_i1_2	628740	88742	710100	119510	1594200	491940	968130	1316400	8952200	33956000	35561000	0	1993000	566240	2128800
ARUBRA_DN8598_c0_g1_i1_5	5863300	6414900	5938000	4983600	4877600	1053900	5659200	3930700	14972000	0	12552000	13498000	3211400	0	3779400
ARHOMBI_DN3049_c0_g1_i1_5	5244300	6742500	7316200	4136200	2604700	1920500	5014300	3630200	12247000	2520400	15990000	17243000	912660	605380	0
ARUBRA_DN16568_c0_g1_i1_3	15293000	12816000	20748000	5505400	3140700	3586500	1581200	4806800	17163000	0	0	0	0	1027500	0
ARUBRA_DN5078_c0_g1_i1_6	0	0	0	290080	0	0	0	0	0	0	0	0	28481000	31268000	25205000
ARHOMBI_DN6227_c0_g1_i3_4	0	0	0	0	0	0	0	0	0	36280000	25589000	23284000	0	0	0
ARHOMBI_DN4048_c0_g1_i1_3	341850	132100	0	160200	0	0	0	0	0	0	0	0	21053000	32809000	29972000
ARHOMBI_DN294_c0_g2_i1_2	16998000	14316000	13194000	38143000	0	0	0	0	0	0	0	0	0	0	0

ARUBRA_DN335_c0_g1_i1_4	7607900	7765600	8081100	7570500	4329200	1722700	2714500	8100000	23211000	8212700	0	0	1113100	840100	996040
ARUBRA_DN4552_c0_g2_i1_4	4068100	5389600	4917200	5792900	0	658860	1475100	3887200	12203000	6467100	4659900	1937000	9753600	9760800	11105000
ARHOMBI_DN19000_c0_g1_i1_1	587880	0	0	893870	0	0	0	4171600	12836000	22837000	39790000	0	413820	338500	0
ARUBRA_DN4655_c0_g2_i1_6	10982000	6166700	12340000	7493500	0	504810	1051100	1393300	7674500	3686700	3363000	729420	5176800	9935000	10502000
ARHOMBI_DN5421_c0_g1_i1_1	771720	968930	6697100	532810	5069400	2728900	6927700	4650400	6987400	5260000	5224800	4568800	12291000	11149000	7070400
ARUBRA_DN2639_c0_g2_i1_5	10217000	8542500	9169600	12851000	3559100	239700	1365700	3544700	17696000	1725300	2081700	1922700	1346600	2247600	2481500
ARHOMBI_DN6203_c0_g1_i1_4	3937600	3083400	5514300	2493600	7054500	5572000	5008200	5719200	13792000	7554700	8189200	1437000	1148800	3097600	5313800
ARHOMBI_DN5924_c0_g1_i1_3	2292600	2552000	4176600	3314500	1826600	3195500	7839900	10280000	32504000	8612400	0	0	0	547930	938870
ARUBRA_DN4385_c0_g1_i1_6	3121800	2204900	4742000	3255000	18382000	4918000	19246000	9165000	7362700	0	0	0	1639600	1557500	1676500
ARHOMBI_DN16907_c0_g1_i1_2	15329000	14832000	12253000	3914200	2631100	2878600	6551500	4629700	13252000	0	0	0	0	883270	0
ARUBRA_DN23412_c0_g1_i1_1	11173000	13584000	10975000	12535000	3783200	504440	1179200	4284400	4303700	7796700	6352700	0	0	0	372570
ARHOMBI_DN4949_c0_g1_i1_4	135820	111560	204770	0	3656600	0	5114000	3257500	9895200	16084000	14459000	3396600	5929400	6392300	6862800
ARHOMBI_DN9199_c0_g1_i1_3	931870	1524200	705400	760280	3759200	2704900	4314000	4686000	3658100	17486000	15350000	12251000	1188300	3830200	2159400
ARUBRA_DN20664_c0_g1_i1_6	4158200	4666400	3175100	5649300	0	301540	2324400	3512800	10518000	21491000	19018000	0	0	0	0
ARHOMBI_DN9737_c0_g1_i1_1	0	0	0	0	0	0	0	59163000	0	0	0	0	0	0	14800000
ARHOMBI_DN5509_c0_g1_i1_1	1558700	1370400	821860	2245800	610860	468010	799200	450800	0	0	0	0	15793000	31177000	18147000
ARUBRA_DN4741_c0_g1_i1_4	5457500	4968000	6803400	3378800	4258900	584080	2563800	5014300	40348000	0	0	0	0	0	0
ARUBRA_DN1142_c0_g1_i1_1	6265400	8985400	5853100	2172700	16806000	4553100	12572000	2946300	10350000	0	0	516280	779450	267890	562090
ARUBRA_DN2596_c0_g1_i1_5	3730700	7245400	6477200	1328600	10619000	2628700	11184000	5890800	6369100	8662200	0	6068800	0	447790	1141300
ARUBRA_DN3451_c0_g2_i1_2	0	0	0	0	0	0	70916000	0	0	0	0	0	0	181080	233630
ARHOMBI_DN5949_c0_g1_i1_6	2748400	2376100	2635200	4363100	3263700	250230	396460	1986400	11017000	7591200	7959800	6339000	9267800	7381400	3595500
ARUBRA_DN25800_c0_g1_i1_2	0	272280	381790	648790	0	0	0	0	0	0	0	0	22209000	31298000	16099000
ARUBRA_DN2944_c0_g2_i1_1	2623500	2746100	4085700	2196000	2013100	845530	1924300	2681600	6798400	0	0	0	11270000	15286000	18219000
ARUBRA_DN3626_c0_g1_i1_4	11857000	5130400	8958800	3641300	3366400	3673600	4133000	3678200	13138000	0	3509200	2984100	2535600	1124600	2300800
ARUBRA_DN1658_c0_g1_i1_3	799550	696700	692640	547220	470310	0	0	161750	1011200	0	0	0	26898000	18535000	19672000
ARUBRA_DN5995_c0_g2_i1_4	4686400	1598000	4666100	1407000	744840	996500	4887600	638310	8005200	10123000	10045000	19019000	448510	1603900	535850
ARUBRA_DN17764_c0_g1_i1_4	11804000	1205500	14157000	7288800	5467500	825220	6071200	3419800	5328900	6009200	0	7271600	0	217560	197490

ARUBRA_DN1399_c0_g1_i1_3	7619600	5157500	6452100	2897200	6450900	1430500	5007700	2479800	15156000	7002200	4963300	2189200	759640	780950	904440
ARHOMBI_DN5222_c0_g2_i1_6	2393600	3338400	4373400	4612500	1692400	688330	4191300	1627400	17027000	10270000	3515000	9138000	2278600	1225100	2467100
ARUBRA_DN4539_c0_g1_i1_1	5554000	5857000	7652300	4165100	3212400	1539000	3830400	4298400	5780100	2060700	2321100	0	4479200	8386100	9423400
ARHOMBI_DN6283_c0_g15_i1_6	12618000	9908100	10126000	2444300	2500200	1028700	1556600	3141700	4121700	0	3899800	2782700	4714500	4524700	5096100
ARUBRA_DN14209_c0_g1_i1_5	0	0	54268000	0	0	0	0	13595000	0	0	0	0	0	0	0
ARHOMBI_DN3140_c0_g1_i1_4	278470	3357700	288570	3400300	5317000	0	2641300	2503400	20159000	3854500	10346000	8277000	2538500	2249600	2438400
ARUBRA_DN3913_c0_g2_i2_6	0	0	0	0	282940	0	172310	597910	0	0	0	0	26970000	27240000	12334000
ARHOMBI_DN5648_c0_g1_i1_6	7183900	7621100	8504900	6727900	1203600	0	2003400	949290	11957000	0	0	8107900	4614200	4714600	3408300
ARHOMBI_DN9622_c0_g1_i1_2	0	0	0	319090	236130	0	188590	0	1397000	0	0	0	20225000	27075000	17164000
ARUBRA_DN4716_c0_g2_i1_1	2844100	1313900	2720600	2578000	898460	612060	881830	1294000	4012600	7734700	7570000	7324800	9094300	12127000	5390000
ARHOMBI_DN5959_c0_g1_i1_1	796020	1172200	625560	1625800	631330	0	193930	659910	0	499310	0	0	17280000	24689000	18078000
ARUBRA_DN7093_c0_g1_i1_1	11609000	7927800	13151000	7759300	1288800	337990	118530	0	22718000	0	0	0	384560	299130	239390
ARHOMBI_DN5317_c0_g1_i1_1	4388200	4971300	3534300	1942400	0	0	687720	646710	5539600	6119200	4683700	4166200	7962600	12689000	8226700
ARHOMBI_DN17873_c0_g1_i1_6	4199700	4747300	4616200	12018000	3493900	1497700	4654800	5460600	12974000	0	0	0	3306500	4324600	2682200
ARHOMBI_DN15725_c0_g1_i1_6	4050500	4050400	4428200	1616800	4509600	437290	3246100	1223400	6503300	0	1961100	0	7642600	12617000	11338000
ARUBRA_DN3134_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	23144000	19287000	21124000	0	0	0
ARUBRA_DN8237_c0_g1_i1_4	7306600	5215700	6444900	5597900	2666800	352380	2991400	3486600	2455100	8085000	9303300	8520000	464350	286780	358410
ARHOMBI_DN5100_c0_g1_i1_3	4316800	3836000	5186400	1955700	4484600	0	1359400	8248600	7181100	7660600	11174000	4087300	888580	1440600	1520100
ARUBRA_DN4014_c0_g3_i1_3	6455400	0	5415800	11513000	3238900	2838000	0	5431200	21314000	0	0	0	3299400	0	3484400
ARUBRA_DN2976_c1_g1_i1_5	1080700	391010	832340	185780	1559300	0	531080	2640000	6496700	0	2591800	1152900	17545000	18165000	9342400
ARHOMBI_DN5768_c0_g1_i1_6	5118500	6687300	5204200	8708200	3186900	366760	4627700	4159200	8213700	0	0	0	8896600	5634300	1627900
ARUBRA_DN6355_c0_g1_i1_3	0	210170	98294	366630	0	149500	0	334010	905950	0	0	0	20291000	24042000	15993000
ARHOMBI_DN2325_c0_g2_i1_5	4960400	6074700	7026700	3809700	0	201630	590210	621070	6849600	11754000	12578000	5816200	575660	604500	729000
ARHOMBI_DN9876_c0_g1_i1_3	483450	1101700	473630	328960	2597800	1715700	1459200	4790400	8009700	11372000	15771000	13558000	0	167080	0
ARUBRA_DN1667_c0_g1_i1_4	9860800	6633400	6926900	10256000	0	0	0	0	10527000	5403000	6873700	4870600	0	0	0
ARHOMBI_DN2829_c0_g1_i1_5	7947400	9456900	8265800	6885400	2029000	1041900	5502100	2755200	13835000	1861200	0	1376400	225020	0	0
ARUBRA_DN2825_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	16512000	24692000	19787000	0	0	0

ARUBRA_DN1403_c0_g1_i1_4	0	0	0	142660	0	0	0	0	0	0	0	0	22390000	14046000	23917000
ARHOMBI_DN5577_c0_g1_i1_6	3454000	8460100	5756300	5951900	0	931380	1816200	2756600	11274000	7192400	2440800	6944200	544250	350360	1947800
ARHOMBI_DN20240_c0_g1_i1_6	12089000	15905000	13594000	5000200	1910100	1056700	2070800	0	7977100	0	0	0	0	0	0
ARUBRA_DN5882_c0_g1_i1_4	2157900	1936500	3045200	3049500	3848400	888670	3391700	11043000	28455000	0	0	0	418800	371090	892840
ARUBRA_DN4352_c0_g3_i1_5	5673900	5939400	7605600	1799800	2098400	803190	4530800	1901600	3146400	6738000	8454500	0	3359400	2859200	3734800
ARHOMBI_DN5282_c0_g1_i1_5	79689	118830	107850	159070	178890	0	0	0	463040	0	0	0	17966000	18899000	20583000
ARHOMBI_DN5162_c0_g1_i1_6	4085000	4637200	3016500	1697300	4292100	4133100	2039700	6671100	10564000	3242700	3428000	6789200	1648400	314510	1902600
ARHOMBI_DN1661_c0_g1_i1_5	761340	801460	269060	838700	239100	0	222240	0	0	2335100	3106000	2570300	16650000	16334000	12883000
ARUBRA_DN4331_c0_g1_i1_1	505880	518420	771450	2806800	518220	240370	1274200	2957700	10261000	14308000	10334000	7184200	1063400	1536200	2324900
ARHOMBI_DN5855_c0_g1_i1_3	0	0	0	0	177360	0	0	0	0	0	0	0	16709000	21582000	18079000
ARUBRA_DN19380_c0_g2_i1_4	1150600	1369400	1105800	1514000	0	0	0	1035000	3066800	4780200	6836300	5740800	9970300	8177100	11565000
ARUBRA_DN337_c0_g2_i1_5	6798600	7925400	7531400	4230400	4676200	2104200	7639100	3244900	8275200	1102700	0	1082400	381730	0	892900
ARUBRA_DN4321_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	20083000	15580000	19947000
ARUBRA_DN1238_c0_g1_i1_5	0	0	0	0	0	0	0	124880	202800	0	0	0	14904000	18110000	22149000
ARHOMBI_DN4982_c0_g1_i1_1	440140	627170	197920	168210	541930	0	0	0	2804200	11735000	11804000	9093600	4963400	5054700	7399800
ARHOMBI_DN4944_c0_g1_i1_3	5052500	5615700	7461600	8701700	3793400	2711200	5209500	1022500	14469000	0	0	0	0	677110	0
ARUBRA_DN1865_c0_g1_i1_1	167380	183490	0	727960	0	0	0	0	0	0	0	0	17751000	23011000	12365000
ARUBRA_DN7363_c0_g1_i1_1	4849500	2717300	3997600	2851500	2145100	825380	0	779940	11222000	10772000	7527000	4583000	0	0	1443900
ARHOMBI_DN6048_c0_g1_i2_2	1249200	1295000	857060	2929900	0	0	1116800	779360	2761300	4233400	0	4102500	10800000	11497000	11291000
ARHOMBI_DN5714_c0_g2_i1_1	2641300	2058700	1890100	196480	867210	507700	0	673720	0	0	0	0	12213000	15678000	15249000
ARUBRA_DN11957_c0_g1_i1_4	2888100	2888000	3487200	4765600	1479700	1550600	2291200	3145700	17525000	0	0	0	2657300	3633400	4294400
ARUBRA_DN26276_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	14930000	18703000	16611000	0	0	0
ARUBRA_DN5081_c0_g1_i1_6	2568200	3479800	2579400	2763500	0	0	2236100	1831100	6365600	14321000	0	0	7198700	6895300	0
ARUBRA_DN11233_c0_g1_i1_2	0	170490	0	0	0	0	0	0	0	0	49182000	0	0	0	0
ARHOMBI_DN5854_c0_g1_i1_3	2013200	1954300	5164100	4272000	978420	365800	4757100	2415500	12012000	6312200	7785700	267710	404890	217350	260620
ARHOMBI_DN6063_c0_g1_i1_4	4010400	1985100	3674000	2343700	2424400	0	2051400	1990300	10900000	10345000	4854900	4140600	0	0	449320
ARHOMBI_DN2876_c0_g2_i1_3	3177000	6393500	7076300	10191000	2844200	328930	3350800	2643000	8115100	0	0	0	750410	409150	3423600

ARUBRA_DN22470_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	23421000	0	24909000
ARHOMBI_DN3221_c0_g1_i1_3	4295400	4228900	7293600	10473000	1321700	2139900	2601100	3423200	8835400	0	1726900	406660	430950	0	523960
ARUBRA_DN4811_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	0	0	39347000	0	8339700	0
ARUBRA_DN1006_c1_g1_i1_5	7594300	7212300	9451700	3155900	2179600	1110800	2569500	2649200	2863500	4552300	0	4293700	0	0	0
ARHOMBI_DN15853_c0_g1_i1_3	4006000	3590700	2921300	2153500	0	0	1717500	0	1972300	12937000	4595800	13657000	0	0	0
ARHOMBI_DN15373_c0_g1_i1_5	91175	0	0	0	0	0	0	171440	0	0	0	0	15406000	10751000	20579000
ARUBRA_DN10605_c0_g1_i1_2	5362200	8972200	7694600	8241800	2061200	0	1933700	0	5627800	0	0	4713700	96535	770390	1164300
ARUBRA_DN10035_c0_g1_i1_2	0	0	0	0	0	0	0	0	46553000	0	0	0	0	0	0
ARUBRA_DN9263_c0_g1_i1_6	4240200	6362300	4750500	11279000	0	646070	0	0	18883000	0	0	0	0	0	0
ARUBRA_DN10200_c0_g1_i1_2	3235100	2686500	3024300	8566900	0	0	0	2594400	19158000	2245000	2201200	1101700	164990	192390	212130
ARUBRA_DN7621_c0_g1_i1_2	3401300	4292200	8417200	3699900	1383200	1282100	1736600	2580400	7477600	4860900	3320300	0	0	1384100	1438100
ARUBRA_DN1568_c0_g2_i1_4	1596000	995700	2307000	1250300	1960600	0	3645800	3604900	16006000	5380900	5847300	1403600	378050	0	759400
ARUBRA_DN3840_c0_g1_i1_2	297710	422890	301410	1705000	1525000	189130	1089500	2007000	1845600	0	0	0	8193000	13960000	13575000
ARUBRA_DN4409_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	15266000	14867000	14942000
ARUBRA_DN4436_c0_g1_i1_5	6762200	5171500	6959600	3253600	4012500	2749700	6457200	5445700	4195600	0	0	0	0	0	0
ARHOMBI_DN5595_c0_g1_i1_6	8029200	9197900	9417000	3752400	2123800	561610	2419400	1369300	4323500	1070600	0	0	1824000	0	828850
ARUBRA_DN4227_c1_g2_i1_2	6054400	6516400	7715300	4483800	0	1877900	3361100	4069000	7386800	0	0	0	1172100	1105300	1158400
ARHOMBI_DN4937_c0_g3_i1_5	2846500	3289200	3272900	3506900	2769200	951840	3123400	0	8974500	0	0	0	4366700	4376000	6615600
ARUBRA_DN143_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	12509000	13400000	18055000
ARHOMBI_DN21168_c0_g1_i1_5	2454300	2199700	4040300	3933200	4513700	1981400	4820000	6573800	11068000	0	0	0	0	1020600	1214500
ARHOMBI_DN4920_c0_g1_i1_6	0	0	0	18115	0	0	0	228660	0	5291100	3402500	1185700	12043000	9714200	11705000
ARUBRA_DN26231_c0_g1_i1_1	0	0	0	0	0	4881100	8130500	10629000	19915000	0	0	0	0	0	0
ARUBRA_DN304_c0_g1_i1_5	0	0	0	42957000	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN3080_c0_g1_i1_1	85318	0	0	0	0	0	0	0	0	0	0	0	12073000	13898000	16645000
ARUBRA_DN10173_c0_g1_i1_6	1383700	1455400	1438900	290930	1353100	920810	1561800	0	3414000	1829100	2249300	0	9572700	13899000	3195200
ARHOMBI_DN1063_c0_g2_i1_1	45559	165700	134810	281770	0	0	0	525480	329080	367400	0	0	10964000	15043000	14110000
ARHOMBI_DN4718_c0_g1_i1_2	4006000	4430700	5727300	4435500	0	1136300	3074700	1947800	10586000	1675400	3346900	866790	0	648620	0

ARUBRA_DN4883_c0_g1_i1_3	0	0	277190	0	0	0	0	0	0	0	0	0	14681000	12763000	13403000
ARUBRA_DN4330_c0_g2_i1_4	6764500	6732200	5478700	5040100	0	0	4022900	4463100	7607100	0	0	0	0	0	829740
ARHOMBI_DN5519_c0_g1_i2_6	368560	299850	0	1747700	0	0	0	2739100	4474300	14718000	16564000	0	0	0	0
ARHOMBI_DN5140_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	0	0	0	15905000	4985100	19927000
ARHOMBI_DN6061_c0_g1_i1_5	1739800	2232400	1646500	2346600	0	683560	0	922050	2756000	9370300	9561200	8726500	316410	122470	147740
ARHOMBI_DN1760_c0_g1_i1_4	656220	983680	546490	587380	251020	0	0	0	0	0	0	0	12999000	11562000	12817000
ARUBRA_DN16482_c0_g1_i1_1	605810	522720	1171600	679750	431590	0	2580300	1726500	4617800	5121100	7274000	5371600	3026300	3639200	3625600
ARUBRA_DN4585_c0_g2_i2_2	2752900	2750800	2966800	758710	2280300	943270	1511000	5449900	6858400	1936400	2249500	2245500	2488400	2766500	2212200
ARUBRA_DN4349_c0_g1_i1_5	0	83821	84536	0	0	0	0	0	0	0	0	0	14798000	11033000	14104000
ARHOMBI_DN5054_c0_g1_i1_1	891790	336250	693940	826340	0	0	0	1564600	4002800	5226800	3058400	2604100	7197500	6235500	7460200
ARUBRA_DN18216_c0_g1_i1_2	2208900	2761700	2316100	1867200	1312400	1275200	651700	2325700	14931000	2594700	359380	2450100	1644600	1039100	2353500
ARHOMBI_DN3394_c0_g1_i1_1	2780900	2605000	3073600	5643200	4204800	591630	3313100	2171300	14459000	0	875860	0	342930	0	0
ARHOMBI_DN20977_c0_g1_i1_5	2384300	0	0	0	0	368180	0	0	0	11815000	13231000	11149000	0	476200	414760
ARHOMBI_DN6641_c0_g2_i1_5	3774400	2076600	759800	4538600	973620	0	1000700	0	1920400	2879800	0	2963700	5534500	6905100	6264400
ARHOMBI_DN5627_c0_g2_i1_2	6790000	6839300	7753700	1939700	2364900	1158500	2773200	1060100	1642500	619890	0	0	1381000	1658900	3222700
ARHOMBI_DN2280_c0_g1_i1_6	7533900	8052900	7136000	2696500	2072300	1115900	2819000	0	4215000	0	0	0	1869800	0	1611000
ARHOMBI_DN5380_c0_g1_i1_2	0	40586	0	170230	0	0	0	0	0	0	0	0	14086000	12056000	12595000
ARUBRA_DN6789_c0_g1_i1_6	0	0	0	414680	0	0	0	0	38477000	0	0	0	0	0	0
ARUBRA_DN17519_c0_g1_i1_3	9368700	7981500	5973100	255310	0	768070	4926800	0	0	0	0	0	2349400	2405400	4149800
ARHOMBI_DN940_c0_g1_i1_3	309930	230690	255910	0	0	0	0	202600	379820	0	0	0	12854000	15544000	8397300
ARHOMBI_DN2154_c0_g1_i1_4	902580	262040	1727300	757510	2655300	1823200	2198700	7697200	12914000	0	0	0	1523300	3084400	1842000
ARHOMBI_DN16490_c0_g1_i1_2	193230	213000	146490	242800	0	0	0	0	0	0	0	0	11370000	14071000	11092000
ARHOMBI_DN6177_c0_g2_i1_3	9690400	0	21859000	5633900	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN24802_c0_g1_i1_2	2625900	2628200	2676000	1534300	0	0	0	0	5411500	6303900	6443100	9128700	0	0	231830
ARUBRA_DN18898_c0_g1_i1_2	0	0	0	0	360530	140490	580180	3555500	5380300	8459100	1602100	12509000	0	1933900	2184500
ARUBRA_DN10159_c0_g1_i1_5	0	59634	10030	39886	0	0	0	0	0	0	0	0	15319000	9868600	11315000
ARUBRA_DN147_c0_g1_i1_6	8413800	7623400	9241900	3943800	2296300	182990	2331600	0	192040	0	0	0	1042000	154020	1075800

ARHOMBI_DN5600_c0_g1_i1_6	4239200	3578500	4754900	4574700	302150	0	1224800	877640	4010000	1129700	0	5235700	1365700	2354500	2728600
ARUBRA_DN18800_c0_g2_i1_4	3865500	4492700	5280500	4414100	1191000	758060	3407900	2984900	1104200	0	0	0	1825900	3205900	3380500
ARHOMBI_DN4017_c0_g1_i1_1	2036600	3711700	5230200	1115100	1097300	2085300	3625700	2805600	5980700	0	0	0	2544100	3219300	2452400
ARUBRA_DN4582_c0_g1_i1_5	2145100	0	178260	687090	0	0	2145200	2785100	2821800	9825900	0	14433000	0	734850	0
ARUBRA_DN1643_c0_g2_i1_1	3706900	2717300	2978700	2023000	671210	218120	598080	1359000	8411200	4138300	4450900	4025500	0	171940	0
ARUBRA_DN5911_c0_g1_i1_4	1553800	1569700	1989800	1561800	4135900	815080	3888400	2628500	5788800	3185200	4322100	3163200	334470	0	449920
ARUBRA_DN3180_c0_g1_i1_4	3469100	2590900	4057700	3287600	0	0	2255500	1344400	10521000	4167500	0	2308700	525950	313420	464490
ARHOMBI_DN12129_c0_g1_i1_2	4687900	3671300	4792600	3343200	0	0	1512700	1450500	2176000	3363300	3067500	7227200	0	0	0
ARHOMBI_DN4888_c0_g1_i1_6	474460	529400	994780	740740	0	0	0	97809	2916400	0	0	0	10308000	10465000	8553500
ARUBRA_DN6309_c0_g1_i1_5	110790	126870	77979	0	184700	0	234630	0	0	0	0	0	6097100	15792000	12362000
ARUBRA_DN3885_c0_g1_i1_5	9237400	6279400	11483000	7915800	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN667_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	12141000	10460000	12251000
ARUBRA_DN18848_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	6455300	14565000	13762000	0	0	0
ARUBRA_DN4554_c0_g1_i1_4	5494600	1190900	12099000	1064900	1416500	1241300	0	0	4944100	0	0	0	2652600	2348900	2230100
ARUBRA_DN9538_c0_g1_i1_1	3621000	4383000	5438000	3359800	1560300	0	1715700	1725000	5646900	0	2612700	2132500	725930	862450	823450
ARHOMBI_DN4282_c0_g1_i1_5	0	0	0	0	0	0	100780	0	0	0	0	0	13405000	13155000	7663200
ARHOMBI_DN22144_c0_g1_i1_6	3170800	3620000	4235700	3659800	1970900	503200	1369500	1195600	7568300	4180800	0	0	0	1685800	1076600
ARUBRA_DN3174_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	10274000	9287500	14377000
ARHOMBI_DN19334_c0_g1_i1_6	3845400	3804000	5314300	5072500	2136300	1276600	2502700	2532600	3039600	0	0	0	1357300	1164000	1482900
ARHOMBI_DN8571_c0_g1_i1_5	6389600	4955900	6290600	2328400	3367200	1492600	664090	1246000	0	0	0	0	753760	3174300	2825200
ARUBRA_DN4684_c0_g2_i1_5	102650	0	65716	363350	984280	0	0	1378300	448210	0	0	0	9642300	8204400	12096000
ARHOMBI_DN1355_c0_g2_i1_2	1079000	8432300	892250	1116500	277400	131010	298400	0	8011000	12245000	0	0	223180	219770	267700
ARUBRA_DN15624_c0_g1_i1_4	3948100	5116200	1422000	672360	0	1429100	2570900	7713600	2619300	0	0	0	2765200	2254400	2592700
ARUBRA_DN2409_c0_g2_i1_4	71936	110150	79070	166130	0	0	0	0	272320	0	0	0	14179000	10293000	7692900
ARHOMBI_DN5337_c0_g1_i1_4	0	111170	0	0	0	0	0	0	0	0	0	0	11186000	7776100	13553000
ARHOMBI_DN6227_c0_g1_i4_5	7497000	6090400	3744000	4510600	0	0	1079700	0	7298500	0	0	0	0	1596600	712470
ARHOMBI_DN4176_c0_g1_i1_6	2611000	2934800	3591500	1876000	2604900	1068400	3139200	2092700	8401900	2966400	0	0	386310	345860	468920

ARUBRA_DN22728_c0_g1_i1_2	2332800	2118200	1192100	1604100	1781000	169000	957750	1042000	3151700	1030500	0	0	5649500	5478200	5944900
ARUBRA_DN18837_c0_g1_i1_3	1974100	2512600	1982500	743450	623660	1388600	3987000	1002700	5928000	4891500	5067100	2042900	0	0	0
ARHOMBI_DN6122_c0_g1_i1_5	0	81881	0	0	0	0	0	0	0	0	0	0	15332000	8323800	8292200
ARHOMBI_DN6266_c0_g2_i3_6	9432200	9055100	7571400	1734200	183170	468220	650080	190620	2736100	0	0	0	0	0	0
ARUBRA_DN4148_c0_g1_i1_5	1533500	4144200	5928500	5305100	560360	1122700	973160	1114700	1706900	0	4340700	4523400	0	0	502020
ARHOMBI_DN15512_c0_g1_i1_6	883510	1109200	1195700	1907100	0	329190	463210	0	1261200	15001000	4357300	3895600	509690	214080	259290
ARHOMBI_DN6104_c0_g1_i1_6	3911500	3766100	2444400	1767500	3079500	1100100	3091300	0	5587500	0	0	0	5267100	414810	489750
ARUBRA_DN4076_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	266910	16024000	14617000
ARHOMBI_DN6065_c0_g3_i2_6	1292500	0	0	1483700	0	0	0	269100	0	6963000	11376000	9059500	0	234060	148320
ARUBRA_DN4576_c0_g1_i1_2	1108800	670840	960930	2466100	1891000	0	2592700	4808700	7145800	0	3444000	3006000	1371200	1262600	0
ARHOMBI_DN3224_c0_g1_i1_2	6540300	6864500	8354500	3314900	0	0	0	0	4930300	0	0	0	258820	0	387300
ARHOMBI_DN6597_c0_g1_i1_6	5125200	4727200	5559300	1665600	0	82476	0	875390	6537800	1044700	3331600	529630	0	0	1111000
ARUBRA_DN16167_c0_g1_i1_3	2883800	3950100	2948500	3461900	0	0	0	0	4737900	3892100	4255600	2947100	588990	0	729560
ARHOMBI_DN4850_c0_g1_i1_5	512800	289360	392820	396520	0	0	378120	0	0	0	0	0	8201900	7995400	12177000
ARHOMBI_DN641_c0_g1_i1_6	1030200	843150	824060	1583700	0	182080	212000	688170	3072200	0	0	0	3356800	7144000	11321000
ARUBRA_DN9455_c0_g1_i1_2	1046600	817510	921810	1405700	2183000	494870	1152100	1016500	2469300	6209800	6763900	3679900	781890	0	989300
ARUBRA_DN4936_c0_g1_i1_3	5631400	4995500	1194700	3124500	1831900	317960	1105300	2192200	605720	0	1333600	2853100	2177500	1327300	1235000
ARUBRA_DN11512_c0_g1_i1_6	2392200	1998700	2687200	2208400	3335500	2535500	4715300	2202000	6448100	0	1219900	0	0	0	0
ARHOMBI_DN13390_c0_g1_i1_2	210470	194600	103320	87757	2625600	1307100	2942100	3132700	3959700	4870600	5358300	4835400	0	0	0
ARUBRA_DN13261_c0_g1_i1_6	3911500	3851200	4593100	2166900	2681600	1036000	2091800	2519300	4489100	0	0	0	731490	633510	723370
ARUBRA_DN7781_c0_g1_i1_6	0	0	29171000	0	0	0	0	0	0	0	0	0	0	217930	0
ARHOMBI_DN15181_c0_g1_i1_3	272510	248160	270400	38113	0	0	0	0	0	0	0	0	10908000	12714000	4746700
ARUBRA_DN4108_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	19204000	9982300	0	0	0
ARHOMBI_DN2905_c0_g1_i1_2	4551700	4785000	5207000	1888800	1528700	0	1935200	217480	4675400	0	0	0	1020300	2121800	1233700
ARUBRA_DN4026_c0_g1_i1_5	469260	376210	423250	509120	0	0	0	0	0	490930	926270	0	6662400	7001100	12128000
ARHOMBI_DN6235_c0_g1_i4_4	0	0	0	0	0	0	0	0	0	0	0	0	11225000	6647900	10935000
ARUBRA_DN25569_c0_g1_i1_3	4016100	5154300	3694500	1757200	3169800	1513400	0	2560500	3808400	0	0	0	1312800	0	1651300

ARUBRA_DN4711_c0_g1_i2_5	1369300	1157500	832500	1457600	342720	0	0	0	2889800	0	0	0	4962200	10252000	5295400
ARUBRA_DN2993_c0_g1_i1_2	0	0	0	5947700	0	0	0	6877100	15515000	0	0	0	0	0	0
ARUBRA_DN3089_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	8314100	10236000	9779800
ARUBRA_DN8636_c0_g1_i1_1	0	0	0	0	1147700	0	276810	0	2000500	4286800	5546700	4957100	2216400	7465900	383800
ARHOMBI_DN4932_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	11257000	11190000	5615600
ARUBRA_DN5237_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	8557000	9649300	9394500
ARUBRA_DN4540_c0_g1_i2_6	0	0	0	0	0	0	0	0	0	0	0	0	8470400	11935000	7086900
ARUBRA_DN830_c0_g1_i1_6	4794300	4124300	2288500	2887700	0	0	3284600	1969700	2976800	0	0	0	1021300	1910800	2184700
ARHOMBI_DN5602_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	9749000	8126900	9489000
ARHOMBI_DN6202_c0_g1_i2_4	4543200	4059000	2531500	958650	1820500	586900	1960300	0	211650	0	0	0	5448200	1097700	4020200
ARUBRA_DN2984_c0_g1_i2_6	701820	0	0	0	5083300	0	3044100	14488000	3896300	0	0	0	0	0	0
ARUBRA_DN6258_c0_g1_i1_5	1453000	1156600	1410400	1836200	435610	0	0	809880	2545400	0	0	918980	4572900	4307600	7454500
ARUBRA_DN1424_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	12374000	6730400	7773200
ARHOMBI_DN6163_c0_g1_i2_6	0	0	0	62610	0	0	0	0	0	0	0	0	10433000	8738000	7517000
ARHOMBI_DN2855_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	7957900	3655500	14881000
ARHOMBI_DN4907_c0_g3_i3_4	2302400	0	0	0	0	1704800	0	0	9755200	0	0	12677000	0	0	0
ARUBRA_DN20327_c0_g1_i1_5	3952200	607050	2461300	1737600	773600	0	0	0	5130800	257900	0	0	3734900	2415800	4800900
ARHOMBI_DN3004_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	4092200	10962000	10665000
ARUBRA_DN20570_c0_g1_i1_4	2236500	2115600	2784500	1728000	2132100	0	1585100	1288100	6694000	1723200	1478400	0	856720	477050	530740
ARHOMBI_DN4754_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	7510600	9652900	8425500
ARUBRA_DN2276_c0_g1_i1_5	0	0	0	0	0	63764	0	0	968250	7035900	9899200	7592400	0	0	0
ARHOMBI_DN6055_c0_g1_i1_6	106890	114690	0	0	0	0	0	0	0	0	0	0	7045500	8881200	9396900
ARHOMBI_DN1472_c0_g1_i1_6	3093500	5120000	4068200	1056500	1150900	0	1400800	784650	0	1659700	0	1730500	2003300	1777000	1698300
ARUBRA_DN2452_c0_g2_i1_2	384810	0	232120	208560	0	0	172780	272800	0	0	0	0	8194700	7297500	8741600
ARUBRA_DN4724_c0_g1_i1_5	3484000	3561300	3496100	2091200	1139900	1701100	0	812800	4604700	1356900	1680300	0	635670	862050	0
ARHOMBI_DN7816_c0_g1_i1_3	2396900	6170100	5202500	752810	1881400	268140	2119400	0	3336800	0	0	0	562380	547650	2100500
ARHOMBI_DN4989_c0_g1_i1_1	128920	158800	0	97659	0	0	0	0	0	0	0	0	9742000	9406500	5031200

ARUBRA_DN8722_c0_g1_i1_2	2126200	2045800	2117000	6263800	685180	0	0	0	11314000	0	0	0	0	0	0
ARUBRA_DN19739_c0_g2_i1_3	1923100	1897800	2671800	2648700	2024400	0	1517400	2027200	4300000	4572800	0	0	499840	455900	0
ARUBRA_DN5052_c0_g1_i2_2	1701600	1627200	2410300	495280	2276800	781210	2303100	1036300	1960900	3016200	3092800	2737400	360970	312370	321530
ARHOMBI_DN19084_c0_g1_i1_5	763790	1047500	1145400	897040	0	494530	0	968720	0	6830600	5862300	5721000	256390	351010	0
ARHOMBI_DN4789_c0_g1_i1_3	176500	138640	0	197380	0	0	0	0	0	0	0	0	7569500	5333600	10873000
ARUBRA_DN14251_c0_g1_i1_2	1808600	2018200	869310	0	1677400	798830	1351100	0	1858800	4149700	4595800	4004000	406260	566220	163380
ARUBRA_DN1618_c0_g1_i1_5	3752300	4252800	3836300	4130600	0	1630800	0	0	2622900	0	0	0	1341300	944870	1726100
ARHOMBI_DN277_c0_g1_i1_2	1401200	1162200	1638300	767680	1573400	857030	1809600	1793900	2831900	5015000	5271800	0	0	0	0
ARUBRA_DN4780_c0_g3_i1_6	43664	0	0	0	0	202270	384270	0	782780	0	0	0	5244700	8666500	8723800
ARHOMBI_DN4043_c0_g1_i1_2	381560	423890	296000	814580	0	213390	0	0	0	0	1081300	0	9781800	8812800	2210900
ARUBRA_DN4785_c0_g1_i3_6	2716700	1126900	3575600	4930200	798560	0	1187300	0	6700200	0	0	0	1374500	112990	1475200
ARHOMBI_DN5765_c0_g1_i1_5	4674200	4982700	5517100	1143700	1058300	0	4467100	868640	1203800	0	0	0	0	0	0
ARHOMBI_DN4921_c0_g1_i1_3	682530	766860	708440	1022200	0	0	0	0	0	0	0	0	7483600	6642600	6564100
ARUBRA_DN4799_c0_g1_i1_4	1198600	1457700	2105300	635840	197140	0	0	0	0	4727500	4547100	8956800	0	0	0
ARUBRA_DN2524_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	8133000	7994700	7592300
ARUBRA_DN830_c1_g1_i1_2	5155500	1600800	1626200	1020600	0	823040	0	0	0	5639100	6274100	0	598570	0	899780
ARUBRA_DN5581_c0_g1_i1_2	1502000	1251400	2698800	733860	1679400	555460	2126700	1849800	238430	0	0	0	2506200	3455000	5024500
ARUBRA_DN18248_c0_g1_i1_4	4589900	4938500	4693300	2592200	0	453130	0	0	4301700	0	1610400	0	208360	214390	0
ARHOMBI_DN15811_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	9926100	3941300	9717700
ARHOMBI_DN5696_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	5611400	8412100	9451000
ARHOMBI_DN6039_c0_g1_i3_2	207400	166480	218070	205130	0	0	0	0	0	0	0	351210	6290600	9711800	5975900
ARHOMBI_DN787_c0_g2_i1_5	5257800	4318100	4216000	1538600	2433300	513400	0	921910	3885800	0	0	0	0	0	0
ARUBRA_DN19178_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	10016000	6329800	6725700
ARUBRA_DN202_c0_g1_i1_3	0	0	0	0	308760	0	0	0	0	0	0	0	7413600	8687500	6604900
ARHOMBI_DN5950_c0_g1_i1_2	0	0	0	0	18493000	0	0	0	0	0	0	0	0	0	4345600
ARHOMBI_DN2248_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	8944800	8189800	5666900
ARUBRA_DN11411_c0_g1_i1_4	0	0	0	69689	0	0	0	0	0	0	0	0	6252300	7762600	8585100

ARUBRA_DN17927_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	9574100	7765300	4944600
ARHOMBI_DN5374_c1_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	7387700	6677100	8217000
ARUBRA_DN763_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	12067000	6787100	3276700
ARUBRA_DN2819_c0_g1_i1_3	1714700	2160400	2083600	147890	897010	0	1031700	0	372960	9769500	0	3838100	0	0	0
ARUBRA_DN4688_c0_g1_i1_1	0	119340	0	56078	0	0	0	0	0	0	0	0	5300700	5990400	10547000
ARHOMBI_DN4778_c0_g1_i1_3	405750	569900	636120	607000	406230	139240	538690	928510	2148800	3365000	1669200	3037600	1755400	2973800	2562800
ARHOMBI_DN777_c0_g1_i1_1	181120	148500	6474600	7012300	1791800	447990	1978300	407170	2017700	0	0	0	0	658050	622710
ARHOMBI_DN18025_c0_g1_i1_2	896220	732060	629230	979190	1042300	383410	1020400	1686200	3413500	1886500	5562200	3239300	0	106580	153470
ARHOMBI_DN5069_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	6019100	8457800	7222300
ARUBRA_DN4080_c0_g1_i1_6	0	0	0	0	0	0	0	435210	0	6848100	7474300	6785200	0	0	0
ARUBRA_DN19946_c0_g1_i1_3	125120	162840	0	0	0	114100	259020	0	0	0	0	0	7179200	5618000	8074300
ARUBRA_DN4991_c0_g1_i1_6	1973300	1893400	2670400	1151200	1127000	0	1085000	751210	1006100	1290300	1261100	1222100	490050	3783500	1822200
ARHOMBI_DN17727_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	7429000	5844200	8227800
ARHOMBI_DN4645_c0_g2_i1_4	169400	0	121400	254390	0	0	0	192130	0	0	0	0	7144500	4284100	9189000
ARHOMBI_DN2411_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	5075200	5323500	10868000
ARUBRA_DN4641_c0_g2_i1_2	255310	154640	193330	193890	0	0	0	0	1236300	0	0	0	3315400	10101000	5631100
ARHOMBI_DN1922_c0_g1_i1_3	2027000	3733100	2360500	534250	842590	1336500	3031000	2216900	4403400	0	0	0	285240	0	276300
ARUBRA_DN17998_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	3320200	5171200	12553000
ARHOMBI_DN5775_c0_g1_i1_2	50722	193980	513240	536980	231270	0	347610	0	1437200	0	0	11266000	2093900	1981100	2357200
ARUBRA_DN5604_c0_g1_i1_1	0	0	0	0	135160	0	0	150240	0	0	0	0	7115500	6348500	7238100
ARUBRA_DN4856_c0_g1_i2_3	8799700	3842700	4265300	3787200	0	0	0	0	0	0	0	0	0	0	278890
ARHOMBI_DN478_c0_g2_i1_6	3325800	3390000	2451600	933590	303870	660380	1351400	196200	0	419700	2367800	0	2605900	1046000	1881600
ARHOMBI_DN5072_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	7010000	5644200	8203000
ARUBRA_DN162_c0_g1_i1_1	2385300	2380900	1959800	2008200	2058900	1750200	1487900	1941600	3392400	0	0	0	318800	691010	421280
ARHOMBI_DN5339_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	7755700	6731500	6278400
ARHOMBI_DN5797_c1_g1_i2_6	1466500	1517700	1773100	973040	529990	0	826910	0	1540900	6069300	3389400	2156200	0	218400	249130
ARHOMBI_DN5453_c0_g1_i1_1	0	0	0	0	0	0	0	0	144650	0	0	0	5752600	7179000	7515300

ARHOMBI_DN4158_c0_g1_i1_4	1238400	1639000	1694200	844990	0	0	0	0	1273700	2417100	3220800	733250	3444700	2340600	1633400
ARHOMBI_DN3362_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	8526800	7977300	3902500
ARUBRA_DN20595_c0_g1_i1_3	0	0	0	140950	0	0	158430	0	0	0	0	0	5658700	5916300	8524100
ARUBRA_DN427_c0_g2_i1_5	382760	326750	200840	340240	1500200	552280	1869900	817830	610440	1156200	0	0	1523400	4772300	6269100
ARHOMBI_DN19156_c0_g1_i1_5	596900	666310	313310	274940	0	1569900	2506700	0	6079500	2514700	2623100	2463300	0	0	628570
ARHOMBI_DN3290_c0_g1_i1_1	245290	0	4286500	0	2300700	0	2657000	549720	0	4852300	0	4634000	249840	0	328650
ARUBRA_DN2245_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	0	340070	0	5441000	8632200	5680400
ARHOMBI_DN19115_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	4493200	7848100	7645000
ARHOMBI_DN5316_c0_g1_i1_2	0	85572	90071	0	0	0	0	0	0	0	0	0	7671800	6947500	5159100
ARUBRA_DN8606_c0_g1_i1_1	2751900	2743800	2719600	852710	0	0	316040	406840	0	1141800	4853500	3078100	1068700	0	0
ARHOMBI_DN5381_c0_g1_i1_4	2012700	2417600	1160600	2795500	0	0	0	0	0	0	0	0	3639000	5759300	2058100
ARUBRA_DN43_c0_g2_i1_6	1487900	1316700	2024000	1389700	0	3460700	4091300	3534400	2538100	0	0	0	0	0	0
ARHOMBI_DN3956_c0_g1_i1_1	4868000	4090100	4922000	5535700	0	0	0	183710	0	0	0	0	0	0	0
ARUBRA_DN609_c0_g1_i1_6	0	0	0	0	244130	0	0	0	0	0	0	0	6598900	6226300	6526100
ARUBRA_DN2_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	5417900	7698100	6474900
ARUBRA_DN1844_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	6053300	8238300	5290200
ARHOMBI_DN3609_c0_g2_i1_1	1240100	2934900	4078600	995330	2116100	0	1292900	1511400	2134300	0	0	0	673040	1056300	1492800
ARHOMBI_DN3185_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	5390500	7545600	6389000
ARUBRA_DN24520_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	6955600	6327100	5998900
ARUBRA_DN4994_c0_g1_i2_3	3205400	4105900	4604700	2297000	0	696170	0	0	0	2089500	0	1735800	497920	0	0
ARUBRA_DN19637_c0_g1_i1_2	316190	323800	803660	272460	1233700	214380	2633500	523950	2447000	393650	590840	924920	3695400	3199100	1623300
ARUBRA_DN18881_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	135430	5457700	7716900	5843200
ARHOMBI_DN5176_c0_g1_i1_6	500310	620550	405530	4404100	1885400	608170	2211700	1898800	6418200	0	0	0	0	0	0
ARUBRA_DN13710_c0_g1_i1_3	0	0	0	0	1509300	0	1801700	871690	7586100	0	2322600	2327700	0	1239900	1238000
ARUBRA_DN18453_c0_g1_i1_3	2104100	2486700	2883700	2535600	872780	1133500	276130	1313800	4829200	0	0	0	0	0	353060
ARHOMBI_DN5422_c0_g1_i1_5	504510	926640	455170	557660	0	141870	0	0	0	0	0	0	6487700	2935100	6748900
ARHOMBI_DN15946_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	8174000	10575000	0	0	0

ARHOMBI_DN4424_c0_g1_i1_1	60894	45273	0	175470	0	0	0	228150	0	0	0	0	4431500	6112500	7586100
ARUBRA_DN3570_c0_g1_i1_3	281930	221990	323800	182290	625870	121510	0	0	0	0	0	0	4384400	8242000	4250000
ARUBRA_DN2080_c0_g1_i1_2	202260	266960	498720	813480	0	0	1211800	0	2943200	5771000	0	3185800	1003200	1609600	1085000
ARUBRA_DN2407_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	5840700	4212800	8432800
ARUBRA_DN6096_c0_g1_i1_5	0	0	242870	135910	214960	0	198900	0	0	0	0	0	3340200	3376100	10941000
ARUBRA_DN5878_c0_g1_i1_4	0	0	66232	0	0	0	0	254240	0	0	0	0	5302700	7531600	5187900
ARUBRA_DN462_c0_g2_i1_3	504670	589840	495170	241820	1134300	248660	0	0	0	4275500	7022200	3766400	0	0	0
ARHOMBI_DN8302_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	8660200	4932400	4640100
ARHOMBI_DN6204_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	0	0	0	4639100	6073500	7505500
ARUBRA_DN935_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	4655500	9123700	4403300
ARHOMBI_DN6019_c0_g1_i1_2	43088	50269	0	0	0	0	0	0	402540	0	0	0	3705400	7640300	6327100
ARHOMBI_DN4558_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	6132500	5469800	6561900
ARUBRA_DN6207_c0_g1_i1_4	0	90489	0	0	0	0	0	0	0	0	0	0	4364300	7625300	6023300
ARUBRA_DN17796_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	6262200	6034900	5680200
ARUBRA_DN4392_c0_g3_i1_4	2311800	2780300	2555000	410470	0	0	1126600	475610	1406300	0	0	0	1162400	3096000	2570000
ARUBRA_DN2862_c0_g2_i1_5	158660	108480	93844	0	0	0	0	0	0	0	0	0	7155500	6708000	3627300
ARUBRA_DN18480_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	6421700	5506500	5880500
ARHOMBI_DN6139_c0_g1_i1_4	60586	62101	0	35572	0	0	0	0	146020	0	0	0	5397000	5120600	6916600
ARHOMBI_DN5986_c0_g1_i2_6	1467100	1593900	1797500	3108500	0	161920	512830	1279200	4534000	0	0	0	236140	1292600	1690500
ARHOMBI_DN20063_c0_g1_i1_4	388820	328120	115450	146090	0	0	0	0	0	5250000	6136000	5234700	0	0	0
ARHOMBI_DN5759_c0_g1_i1_6	43481	36206	0	16029	278960	0	0	0	0	0	0	0	3112900	10904000	3203400
ARHOMBI_DN3534_c0_g1_i1_3	0	0	0	0	0	0	0	0	159130	0	0	0	8600400	5526000	3082100
ARUBRA_DN11326_c0_g1_i1_6	607870	1510300	706570	1548100	0	496910	0	0	0	3857900	4921200	3504300	0	191470	0
ARUBRA_DN2423_c0_g1_i1_1	55748	0	0	0	0	0	0	0	0	0	0	0	7509600	2716500	7006600
ARUBRA_DN3020_c0_g1_i1_1	770250	596500	1166500	289410	970950	0	0	0	0	0	0	0	4826100	2637200	5864400
ARUBRA_DN12109_c0_g1_i1_6	127950	192090	163590	80239	4038000	1252700	4048800	971870	2094200	0	0	1252300	735600	939670	1120300
ARUBRA_DN16721_c0_g1_i1_2	1019900	838700	730620	1104800	801990	187890	447700	1015500	644640	4387100	1556100	3787500	0	197360	176230

ARUBRA_DN4896_c0_g1_i1_4	500200	1129900	362680	354980	454320	420470	1002400	647130	3331700	4175900	0	3636100	0	788380	0
ARHOMBI_DN347_c0_g1_i1_1	293110	443590	605510	1284000	0	0	392470	0	2749400	0	5849200	0	1648300	1678300	1734400
ARUBRA_DN3353_c0_g1_i1_5	727910	669780	1300200	505340	2982200	763590	4303000	1126800	1314400	0	0	0	962090	1039000	971680
ARHOMBI_DN1690_c0_g1_i1_4	1587300	3740600	1085900	4329200	0	105950	0	1643600	4103500	0	0	0	0	0	0
ARUBRA_DN4036_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	6788000	2041100	7737500
ARHOMBI_DN3961_c0_g1_i1_1	1653100	1939100	2259000	1879900	301070	181850	0	1589100	3552000	0	0	0	866870	1365600	977250
ARUBRA_DN6223_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	3873200	5726000	6918600
ARUBRA_DN17757_c0_g1_i1_6	2978700	2762900	1897000	1451400	1435300	0	0	291270	1702100	0	0	714270	1270100	240070	1652400
ARUBRA_DN1661_c0_g1_i1_3	553020	576820	971960	838620	2112100	0	2684100	1602300	4048100	1276200	891640	0	0	0	825100
ARUBRA_DN2570_c0_g2_i1_5	1223100	1397000	1876000	942260	1147500	939950	2829300	737710	3006400	708590	0	0	451820	466200	571470
ARUBRA_DN2915_c0_g1_i1_5	52504	854740	0	47338	0	0	0	0	0	0	0	0	6466400	7058400	1795300
ARUBRA_DN4959_c0_g1_i4_6	82336	105370	0	0	0	0	0	0	0	0	0	0	7423500	1463500	7159500
ARUBRA_DN4738_c0_g1_i1_6	2360100	2224300	1865800	0	2149900	418090	2366500	307690	0	0	0	0	1877000	0	2571400
ARHOMBI_DN5099_c0_g2_i1_3	0	117020	0	0	0	0	0	0	0	0	0	0	5233300	7875000	2903000
ARHOMBI_DN6124_c0_g2_i1_6	1350800	1388800	634190	1731800	270180	120960	326430	1451600	1605500	1752100	0	0	2003500	2037700	1374700
ARUBRA_DN22130_c0_g1_i1_6	2196100	2412200	4921500	2554700	100460	701890	929360	0	2195600	0	0	0	0	0	0
ARHOMBI_DN17024_c0_g1_i1_5	1451600	1641400	2208100	1720900	1597200	699800	847460	1444900	1934600	0	0	2365200	0	0	0
ARHOMBI_DN3923_c0_g2_i1_3	1243700	1639300	784010	760620	0	0	0	0	11367000	0	0	0	0	0	0
ARUBRA_DN16253_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	5213100	5075300	5491900
ARUBRA_DN18651_c0_g1_i1_6	187750	145830	159050	249400	0	0	0	0	327340	0	0	0	1861100	8666200	4127100
ARHOMBI_DN16154_c0_g1_i1_2	1849000	1638600	2590100	1075700	1416500	615020	1048900	856860	2429800	1409600	0	0	112010	292160	380140
ARUBRA_DN5051_c0_g1_i1_2	0	0	0	0	0	0	148290	0	0	0	0	0	6193200	8237900	1117800
ARHOMBI_DN2561_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	5460800	4788900	5440700
ARUBRA_DN1380_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	2865700	4621700	8176000
ARUBRA_DN2595_c0_g3_i1_4	38210	55833	0	0	0	0	0	0	0	0	0	0	5337900	4718000	5361300
ARUBRA_DN3028_c0_g1_i1_1	614830	781290	1890500	1817200	937840	509840	1067900	1585100	0	0	0	0	1639200	3314900	1246900
ARUBRA_DN3878_c0_g1_i1_3	63758	0	0	0	0	0	0	0	0	0	0	0	4764600	4873300	5649100

ARUBRA_DN2248_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	4763600	5160200	5421100
ARUBRA_DN3983_c0_g1_i1_4	37509	103930	0	0	0	0	223490	497460	0	0	0	0	3120500	5865100	5476900
ARUBRA_DN7521_c0_g1_i1_3	0	0	1429800	0	1017100	529620	0	2293400	8881400	0	0	0	586350	0	574080
ARUBRA_DN15944_c0_g1_i1_3	2819800	3048100	2245500	0	1235400	0	0	841170	0	0	0	0	1640400	1946600	1513300
ARUBRA_DN4965_c10_g1_i1_3	0	81721	0	0	0	0	0	296730	0	0	0	0	3291900	6279100	5296500
ARHOMBI_DN2725_c0_g1_i1_2	2188700	2851800	2550300	0	826960	352210	1014200	0	4187300	0	0	0	0	507000	528600
ARHOMBI_DN4252_c0_g1_i1_5	0	73680	0	0	0	0	0	0	0	0	0	0	3976700	4229200	6580000
ARHOMBI_DN5741_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	4617600	3870100	6369700
ARHOMBI_DN4907_c0_g1_i1_4	1605200	2337100	2273100	1265400	699950	1049500	1066400	0	1472800	0	0	758480	567810	814120	846200
ARHOMBI_DN3938_c0_g1_i1_4	811120	0	0	13488000	446400	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN17582_c0_g1_i1_4	4246600	4144600	4089300	713920	0	0	532960	0	0	998290	0	0	0	0	0
ARUBRA_DN9146_c0_g1_i1_2	3759400	4099000	3675900	137920	0	1631400	443290	0	0	504870	0	0	250800	0	181130
ARHOMBI_DN15390_c0_g1_i1_4	713020	524120	588070	282270	2555700	0	2684300	1912100	3796200	0	0	0	787780	0	805860
ARHOMBI_DN4487_c0_g1_i1_2	962750	1313100	1769100	756040	1546800	471010	71346	1318000	4069800	388280	532190	0	498530	136800	773700
ARUBRA_DN1889_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1822300	5873500	6885300
ARUBRA_DN4712_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	7304700	3054000	4216900
ARUBRA_DN4939_c0_g1_i3_5	0	0	0	0	0	0	0	0	0	0	0	0	2647500	3983200	7910900
ARUBRA_DN4833_c0_g1_i2_5	3036200	4814900	2871500	1503300	0	1041700	0	0	0	0	0	0	479590	0	684710
ARUBRA_DN2992_c0_g1_i1_3	1150400	0	1716500	1418700	357420	369340	549870	796270	3432800	1255800	0	1457400	593700	589850	665340
ARUBRA_DN7857_c0_g1_i1_1	548000	534540	882710	999920	0	0	430510	1420400	0	0	0	0	1246700	4068500	4203000
ARUBRA_DN22505_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	4405400	5033600	4873800
ARUBRA_DN21075_c0_g1_i1_5	797410	894120	972960	149830	322460	0	0	0	254570	2908300	3146000	1277900	1090500	1216200	1254000
ARHOMBI_DN5548_c0_g1_i1_5	0	0	0	0	0	0	0	0	401820	0	0	0	3558800	6897300	3384600
ARUBRA_DN2771_c0_g1_i1_5	668910	158660	0	0	0	0	793870	145440	0	0	0	0	4027100	3183100	5128000
ARUBRA_DN4858_c0_g1_i1_4	294880	243070	158010	31333	0	0	1784500	0	896740	0	0	0	1648800	6148500	2829500
ARUBRA_DN25882_c0_g1_i1_2	0	172580	182440	243400	0	0	0	0	0	0	0	0	3798600	3524900	6083900
ARHOMBI_DN6034_c0_g1_i3_3	0	0	0	0	0	0	0	0	0	0	0	0	6662900	0	7291100

ARHOMBI_DN5395_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	5558400	4341700	4042100
ARUBRA_DN2691_c0_g1_i1_5	1051300	1382500	580910	4218700	0	494220	0	0	3806400	0	0	2393800	0	0	0
ARUBRA_DN16143_c0_g1_i1_5	0	187690	0	236710	0	0	0	0	0	0	0	0	5298600	6337200	1709500
ARUBRA_DN7703_c0_g1_i1_6	0	489880	1924800	187050	0	0	0	0	0	1092200	0	0	3551900	2617300	3895900
ARHOMBI_DN5124_c0_g1_i1_4	105860	105060	0	75966	0	0	0	0	0	0	0	0	0	5762800	7682700
ARHOMBI_DN3648_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	2984700	7212800	3501100
ARHOMBI_DN1734_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	3838500	4807700	5042600
ARUBRA_DN9894_c0_g1_i1_4	0	0	609290	255690	836420	0	969460	1128500	3379300	0	1584800	0	1176400	1199500	2546300
ARUBRA_DN2456_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	5546500	4111000	4016100
ARUBRA_DN6971_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	4991200	4659000	4020900
ARHOMBI_DN516_c0_g1_i1_6	1314200	1572100	313870	807480	0	448910	866640	717830	2633200	0	0	0	1867600	1522300	1604700
ARUBRA_DN3974_c0_g1_i1_1	702810	978270	1179600	1169500	1137400	688220	0	0	327500	3891900	381060	3167100	0	0	0
ARUBRA_DN19869_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	5160400	2982100	5332900
ARUBRA_DN5948_c0_g1_i1_2	0	0	0	88967	0	0	0	0	0	0	0	0	3493800	5114100	4749800
ARUBRA_DN20440_c0_g1_i1_3	238520	200120	95199	95429	1742600	0	1226500	0	0	2591100	2916700	2918500	459070	437950	474000
ARUBRA_DN20805_c0_g1_i1_5	0	0	13380000	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN1508_c0_g1_i1_1	0	0	0	244450	543600	164610	0	1084000	3728800	2409600	2568000	2240200	235110	0	144400
ARUBRA_DN8181_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	5297200	283110	7763000
ARHOMBI_DN5015_c0_g1_i1_3	1079600	1157800	1396600	573980	708910	0	305600	709230	1467200	1686000	2497800	1432400	161810	121320	0
ARUBRA_DN11787_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	4568600	4557600	4112400	0	0	0
ARHOMBI_DN5946_c1_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	5037800	8185900	0
ARUBRA_DN23186_c0_g1_i1_4	1985100	2054500	2153900	1215800	0	0	0	1769700	2733500	1257900	0	0	0	0	0
ARUBRA_DN3089_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	5230500	4400100	3509700
ARUBRA_DN1937_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	12988000	0	0	0	0	0
ARHOMBI_DN9002_c0_g1_i1_5	843940	1192700	619790	246040	3489500	0	0	870610	1664900	0	0	0	1010300	1510100	1464300
ARHOMBI_DN10315_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	4244100	3883800	4781000
ARUBRA_DN20947_c0_g1_i1_6	940750	1338600	949750	1379400	2019200	366600	1049900	1096300	3625500	0	0	0	0	117070	0

ARUBRA_DN18979_c0_g1_i1_5	1145500	525410	2272700	472990	1911500	0	0	0	2851400	0	0	0	1723300	0	1906400
ARUBRA_DN6370_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	7206300	3128900	2404500
ARHOMBI_DN16206_c0_g1_i1_4	393230	513810	527370	240350	1017700	0	0	0	1542800	0	0	0	2892500	2172100	3235700
ARHOMBI_DN6026_c0_g2_i1_4	289990	92058	146270	67763	762380	0	678020	671720	203290	0	0	1483300	1652800	3898900	2483900
ARHOMBI_DN11466_c0_g1_i1_1	0	0	0	0	0	124790	0	0	0	0	0	0	7925100	2069400	2292500
ARUBRA_DN6756_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	4477200	3406300	4499400
ARHOMBI_DN7040_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12382000
ARHOMBI_DN11661_c0_g1_i1_3	0	0	0	0	179360	48706	0	201810	0	0	324470	0	3656600	3744900	4204200
ARHOMBI_DN23618_c0_g1_i1_3	311610	66789	0	1254200	0	0	0	377080	0	0	10342000	0	0	0	0
ARUBRA_DN6507_c0_g1_i1_3	1273900	1284700	1151500	579790	1440500	0	837010	0	500640	0	0	1499000	1094900	1346100	1342300
ARHOMBI_DN21306_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	4407200	2615500	5321000
ARHOMBI_DN16200_c0_g1_i1_5	1916500	1883600	3415300	1298400	423220	518630	1415900	363670	1103000	0	0	0	0	0	0
ARHOMBI_DN18668_c0_g1_i1_4	175840	262470	0	47621	189640	0	0	0	0	0	0	0	3989500	2696900	4965200
ARHOMBI_DN7785_c0_g1_i1_5	1285300	976610	715840	2325500	2067000	1328000	2007000	492580	788270	0	0	307880	0	0	0
ARHOMBI_DN2296_c0_g2_i1_6	1256800	1317300	1012300	744760	0	0	0	0	1100000	0	0	0	2848800	2376400	1607200
ARUBRA_DN4291_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	6147600	4445900	1662000
ARHOMBI_DN4083_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	4936000	3760000	3549700
ARHOMBI_DN5446_c0_g1_i1_5	269600	643970	440200	0	0	0	238210	0	0	1825100	2396600	1518500	3583300	0	1305600
ARUBRA_DN8529_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	4071800	2890200	5188600
ARUBRA_DN4933_c0_g1_i2_4	0	0	0	0	0	0	0	233520	0	0	0	0	1964800	7522500	2402200
ARUBRA_DN3170_c0_g1_i1_4	776620	871550	1257300	228410	0	0	0	0	0	0	0	0	3702900	2302300	2969900
ARUBRA_DN4127_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	2940700	2637100	6498500
ARUBRA_DN6378_c0_g1_i1_2	0	0	0	194870	0	0	0	0	0	0	0	0	2765900	2965300	6039700
ARUBRA_DN2301_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	2614500	3900600	5449200
ARUBRA_DN16958_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	4197400	2932000	4741500
ARUBRA_DN256_c0_g2_i1_1	417810	411660	584540	145860	2337000	1419200	1126100	1676100	508870	0	467400	1660200	263020	259000	572670
ARHOMBI_DN2281_c0_g1_i1_1	337100	321630	440930	0	575560	0	0	0	0	0	0	0	2166200	5687600	2267700

ARHOMBI_DN6231_c0_g2_i2_2	0	0	0	0	0	0	0	0	0	0	0	0	4969100	2610100	4212500
ARHOMBI_DN835_c0_g1_i1_4	0	92712	0	0	0	0	0	0	0	0	0	0	4784900	4813500	2044400
ARUBRA_DN4252_c0_g2_i2_4	0	0	0	0	0	0	0	0	0	0	0	0	5257900	3102900	3335200
ARHOMBI_DN11662_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	11617000	0	0	0	0
ARUBRA_DN21714_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	6372500	2368500	2866700
ARHOMBI_DN4867_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	4195700	2488900	4917600
ARHOMBI_DN5538_c0_g1_i1_5	357990	303270	217650	0	0	0	0	0	0	0	0	0	1646400	2417400	6629600
ARUBRA_DN9182_c0_g1_i1_2	70943	66244	0	60616	258100	0	323830	0	0	0	0	0	3132200	3732700	3896600
ARUBRA_DN4826_c0_g1_i1_4	440160	321550	743710	0	1529100	717740	483950	0	0	2160000	2388900	1980700	293400	0	480310
ARHOMBI_DN21064_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	3692300	2991700	4837300
ARHOMBI_DN50_c0_g3_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	4606800	3460900	3399100
ARUBRA_DN4961_c0_g1_i2_4	2349200	1729400	2116400	0	0	395170	1463800	0	1251900	0	0	0	0	2146800	0
ARHOMBI_DN5474_c0_g1_i1_5	2297400	477500	3281000	850230	229620	602220	549800	359980	2146000	0	0	0	166530	0	415040
ARUBRA_DN3097_c0_g2_i1_2	0	0	0	114420	0	0	0	0	0	0	0	0	4190200	1869800	5194200
ARUBRA_DN7003_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	11359000	0	0	0	0
ARHOMBI_DN20442_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	11349000	0	0	0	0	0
ARUBRA_DN3105_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	4286300	2979600	4008600
ARUBRA_DN18186_c0_g1_i1_5	2339100	2824500	1752800	0	0	0	0	0	3493600	0	0	0	822420	0	0
ARUBRA_DN3014_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	3827400	1688900	5713400
ARUBRA_DN12532_c0_g1_i1_5	0	0	383280	0	0	693290	4513500	910780	1277200	0	0	0	1708300	0	1739300
ARHOMBI_DN5429_c0_g1_i1_2	572240	669770	866250	1503200	0	0	0	453740	7144400	0	0	0	0	0	0
ARHOMBI_DN16845_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	996210	6017000	4191800
ARUBRA_DN720_c0_g1_i1_6	0	0	0	120190	0	0	0	0	0	0	0	0	2561600	5011900	3450100
ARHOMBI_DN17235_c0_g1_i1_3	90497	59057	0	0	0	0	0	0	0	0	0	0	3737700	4370300	2839200
ARUBRA_DN2328_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	525060	4512300	6033900
ARUBRA_DN4073_c0_g1_i1_2	0	0	0	0	0	0	0	0	143740	0	0	0	3739000	3310400	3798000
ARHOMBI_DN1161_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	2677200	3190000	5027000

ARHOMBI_DN22444_c0_g1_i1_1	1080200	769070	585580	279900	524480	0	409530	371580	1686100	0	1802300	3383800	0	0	0
ARHOMBI_DN5200_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	2109700	5781900	3001300
ARHOMBI_DN19654_c0_g1_i1_2	0	0	0	52363	352400	0	0	0	0	0	1704100	0	4007000	1379900	3373200
ARHOMBI_DN2987_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	3384900	4148700	3334700
ARHOMBI_DN6144_c0_g1_i1_4	180060	161680	185060	600710	0	0	0	154180	457250	0	0	0	3083800	2737200	3281300
ARUBRA_DN4862_c0_g1_i1_4	2856500	0	3697600	4275800	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN1127_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	3429000	3305800	4043300
ARUBRA_DN17228_c1_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	3117500	3443700	4204800
ARHOMBI_DN4125_c0_g1_i1_5	694370	602350	863540	197380	648100	225270	0	285390	0	0	0	0	3704800	1624100	1852500
ARHOMBI_DN4270_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	3149700	3125700	4407800
ARUBRA_DN4844_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	5414700	1659400	3607500
ARUBRA_DN13846_c0_g1_i1_5	230080	248220	111620	210550	0	0	0	0	679840	0	0	0	3102200	2877400	3141100
ARUBRA_DN5052_c0_g2_i1_1	2805000	1106700	6448800	154140	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN4025_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	2210900	2685400	5613400
ARUBRA_DN4599_c2_g1_i1_4	1089800	1148400	1462500	392560	0	172170	0	0	1299300	0	0	0	1317600	2145900	1454900
ARUBRA_DN21659_c0_g1_i1_3	0	2972300	2765000	0	1740400	0	322120	0	2661300	0	0	0	0	0	0
ARHOMBI_DN17850_c0_g1_i1_6	1982600	2111800	1039200	760770	1080500	427740	0	690480	2322300	0	0	0	0	0	0
ARUBRA_DN2529_c0_g2_i1_6	444720	474470	738010	640520	0	0	1020100	1102400	0	0	0	0	1380300	1452100	3160300
ARHOMBI_DN6264_c0_g1_i5_2	0	0	41942	0	0	0	0	0	10245000	125270	0	0	0	0	0
ARHOMBI_DN5393_c0_g1_i1_1	44081	0	0	102130	0	641190	819280	3242900	5456400	0	0	0	0	0	0
ARUBRA_DN3140_c0_g1_i1_5	108280	0	0	0	0	0	0	0	0	0	0	0	1386800	2543100	6256900
ARHOMBI_DN5550_c0_g1_i1_2	518060	1616400	388420	1392400	0	0	0	0	2825500	0	0	2380000	0	0	1166700
ARUBRA_DN3107_c0_g1_i1_6	446060	552850	495940	387890	1427800	487100	2016300	1811900	1426100	385800	0	353460	0	0	475310
ARUBRA_DN4381_c0_g1_i1_5	239890	354990	178560	110900	372370	0	0	0	881340	0	0	0	1382900	3392900	3348900
ARUBRA_DN3552_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	3026700	4714300	2483400
ARUBRA_DN3608_c0_g1_i1_6	487270	1205900	1208000	439870	2231400	1733700	0	1179500	1706500	0	0	0	0	0	0
ARHOMBI_DN17898_c0_g1_i1_3	25415	28578	0	0	0	0	0	0	0	0	0	0	3771800	3631500	2718300

ARHOMBI_DN17178_c0_g1_i1_4	1426600	1585700	983710	379940	0	501550	825180	632640	1351100	0	0	0	807750	789490	837450
ARUBRA_DN4547_c0_g1_i1_6	1813600	2469500	2968200	2514600	0	0	0	0	0	0	0	0	0	344770	0
ARHOMBI_DN486_c0_g1_i1_1	1259000	1745800	1914600	37095	702710	0	0	0	1373100	0	0	0	1541400	1480500	0
ARHOMBI_DN5664_c0_g1_i1_5	154690	103970	138510	84512	8300100	436070	0	826550	0	0	0	0	0	0	0
ARHOMBI_DN7133_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	3182000	3398400	3463500
ARHOMBI_DN5590_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	2781500	2584200	4671300
ARHOMBI_DN3067_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	3269700	3353400	3412500
ARUBRA_DN3632_c0_g1_i1_6	298420	327100	313440	0	0	174030	0	0	865750	0	0	0	1426700	3416000	3193400
ARUBRA_DN5040_c0_g4_i8_2	66665	67610	0	0	462240	0	405730	422250	836820	0	0	0	3957000	3792200	0
ARHOMBI_DN9099_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	5383800	0	4610900	0	0	0
ARHOMBI_DN1783_c0_g2_i1_3	314190	342690	718630	360480	1428500	959410	1530000	1136400	2077300	0	0	0	0	486800	636040
ARUBRA_DN5025_c0_g1_i3_3	0	0	0	0	0	0	0	0	0	0	0	0	3397800	2293400	4293500
ARUBRA_DN1938_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	3576900	2515200	3878500
ARHOMBI_DN16492_c0_g1_i1_4	1945800	1790000	2164900	1273300	680850	0	733640	856750	525000	0	0	0	0	0	0
ARUBRA_DN5418_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	3428900	2948700	3583400
ARHOMBI_DN13783_c0_g1_i1_2	1996800	2101000	2296000	566680	0	0	0	0	0	0	0	0	1460700	1517000	0
ARHOMBI_DN16013_c0_g1_i1_5	319160	851460	947140	0	0	0	0	0	0	0	0	0	2490300	2555500	2762600
ARUBRA_DN19786_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	4888400	5007800	0	0	0	0
ARUBRA_DN5795_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	3094500	3028900	3746600
ARHOMBI_DN6222_c0_g1_i1_3	1060400	1915500	1768000	0	712450	0	694470	0	632490	0	0	0	2345000	0	730870
ARHOMBI_DN3998_c0_g1_i1_1	117330	148190	200500	0	0	0	413790	0	0	0	0	0	3638800	1127700	4197500
ARUBRA_DN25017_c0_g1_i1_1	0	0	0	0	0	0	0	1028900	4244900	0	0	0	1428200	1607300	1497200
ARUBRA_DN2627_c0_g1_i1_2	0	0	0	26489	0	0	0	0	0	0	0	0	2865800	2595500	4309800
ARHOMBI_DN2324_c0_g1_i1_5	143430	94411	95627	40262	0	0	0	0	0	0	0	0	1013700	4093300	4284200
ARUBRA_DN6463_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	2571100	2251800	4929800
ARUBRA_DN18383_c0_g1_i1_3	253160	255540	352290	452570	0	0	0	810770	1483200	2641800	3478900	0	0	0	0
ARUBRA_DN4889_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	3262300	2593400	3845900

ARHOMBI_DN6134_c0_g1_i1_6	1104300	2162600	1181300	5079700	0	0	0	0	170890	0	0	0	0	0	0
ARHOMBI_DN3483_c0_g3_i1_5	269290	308980	295240	459170	0	0	0	0	0	0	0	0	0	3361700	4946600
ARUBRA_DN11125_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	2425200	2553500	4646100
ARHOMBI_DN13455_c0_g1_i1_1	842500	662930	923980	1486500	0	0	0	0	0	0	5700900	0	0	0	0
ARHOMBI_DN5719_c0_g1_i1_2	69556	59516	0	34520	0	0	0	0	0	0	0	0	3410700	1601300	4435200
ARHOMBI_DN25944_c0_g1_i1_6	1168300	712610	793380	220560	1735400	0	0	0	0	0	0	4980100	0	0	0
ARHOMBI_DN1498_c0_g1_i1_1	0	0	0	0	0	0	9603900	0	0	0	0	0	0	0	0
ARUBRA_DN3905_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	2493200	3144700	3932900
ARUBRA_DN8419_c0_g1_i1_3	0	0	30363	0	0	0	288650	0	0	0	0	0	4014700	2524300	2659200
ARUBRA_DN11134_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	5591800	1737200	2129900
ARHOMBI_DN2322_c0_g1_i1_2	1365900	1599500	1726600	1265300	974310	0	0	852220	1648600	0	0	0	0	0	0
ARHOMBI_DN20297_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	4067700	1764600	3596700
ARUBRA_DN4829_c0_g2_i2_4	0	0	0	0	0	0	0	0	0	0	0	0	628710	2054200	6720000
ARUBRA_DN18092_c0_g1_i1_5	0	0	156330	0	2171100	0	222660	2505900	1679000	2393400	0	0	0	0	264090
ARHOMBI_DN10619_c0_g1_i1_4	0	0	0	0	0	0	0	0	207750	0	0	0	2643300	2229500	4303400
ARHOMBI_DN3191_c0_g1_i1_2	78749	73277	0	43614	0	0	0	0	0	0	0	0	3024800	4142600	1974200
ARUBRA_DN19085_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	482940	4039000	4814500
ARHOMBI_DN5770_c0_g2_i2_6	104280	113650	0	0	0	0	0	0	0	0	0	0	2850900	2837200	3430300
ARHOMBI_DN3157_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	4437300	0	4894400
ARUBRA_DN21700_c0_g1_i1_4	2064000	2403100	1107200	282940	627510	0	0	0	0	0	0	0	896310	473010	1474800
ARHOMBI_DN16801_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	3755100	3469800	2103000
ARUBRA_DN192_c0_g1_i1_1	153660	134310	55441	55376	0	0	0	0	0	0	0	0	2854900	3099300	2950200
ARHOMBI_DN24575_c0_g1_i1_1	80089	66225	36618	28791	295900	0	0	316650	0	0	1171900	1042400	2730500	2381200	1150000
ARHOMBI_DN5209_c2_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	3283100	3467700	2483500
ARUBRA_DN1890_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	3192300	3221100	2801800
ARUBRA_DN3867_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	4303700	2462400	2448400
ARHOMBI_DN23168_c0_g1_i1_4	832550	813880	1173900	755260	1042200	354230	379900	0	3214700	0	0	0	169220	237770	230280

ARHOMBI_DN3469_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	2984100	2843300	3367800
ARUBRA_DN4948_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	2629600	3507600	3013600
ARUBRA_DN3297_c0_g1_i1_1	1227800	1029000	1355300	1298900	0	0	0	537780	2592900	0	0	0	249930	0	853440
ARUBRA_DN2696_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	3575500	3814200	1725000
ARHOMBI_DN15716_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	3256100	1201500	4544800
ARHOMBI_DN4884_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	2633100	2731500	3599100
ARUBRA_DN20045_c0_g1_i1_4	1398700	845040	1019900	1100800	567960	0	632950	505050	0	1406500	1445400	0	0	0	0
ARHOMBI_DN1594_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	1991900	2801400	4123200
ARUBRA_DN4593_c0_g2_i1_4	0	138410	0	0	0	119760	0	0	0	0	0	0	2484200	2858700	3289900
ARUBRA_DN4903_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	820720	4223300	3831400
ARHOMBI_DN18322_c0_g1_i1_3	0	0	0	0	398660	0	347700	624210	1814600	1911600	2150100	1614000	0	0	0
ARUBRA_DN11129_c0_g1_i1_5	2243000	2173500	1804600	325110	852220	490900	949700	0	0	0	0	0	0	0	0
ARUBRA_DN24080_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	2463700	4161500	2164000
ARUBRA_DN10280_c0_g1_i1_1	1782000	1458600	1710100	888910	0	0	1412400	1242200	0	0	0	0	0	0	256470
ARUBRA_DN19519_c0_g1_i1_5	1291000	1010000	1332000	794140	690620	0	0	1514700	1318100	0	0	0	302890	267950	221370
ARUBRA_DN5259_c0_g1_i1_6	360350	273120	506330	383980	0	151380	1374000	269180	5243100	0	0	0	0	180340	0
ARUBRA_DN4393_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	2289900	3955900	2479400
ARHOMBI_DN5839_c1_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	1962800	5834000	878520
ARUBRA_DN10773_c0_g1_i1_4	0	1081400	216140	0	314210	960310	1139100	869160	4088900	0	0	0	0	0	0
ARUBRA_DN21519_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	3697400	2250000	2698100
ARUBRA_DN6882_c0_g1_i1_3	1711700	1721300	1636200	855050	986780	748670	985870	0	0	0	0	0	0	0	0
ARHOMBI_DN22543_c0_g1_i1_3	0	0	0	0	0	655040	858330	1081300	5710400	0	0	0	0	145060	149080
ARUBRA_DN9648_c0_g1_i1_1	0	73088	464860	134400	0	0	182130	0	0	3554300	3820700	0	255600	0	108240
ARUBRA_DN5039_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	485310	3851600	4214800
ARHOMBI_DN18646_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	3026000	4310600	1196700
ARHOMBI_DN4447_c0_g1_i1_4	0	0	0	0	0	0	0	0	329300	0	0	0	3785500	1914300	2503800
ARUBRA_DN2978_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	871850	3346200	4297700

ARUBRA_DN7999_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	3870200	1470600	3169900
ARHOMBI_DN5214_c0_g1_i1_4	139600	253950	190530	0	0	0	89565	0	561480	2379700	2238700	2302900	164730	0	166000
ARUBRA_DN4195_c0_g1_i1_4	0	0	0	0	0	0	0	0	150080	0	0	0	1161100	3367500	3736700
ARHOMBI_DN6230_c0_g2_i3_1	372910	0	639560	40668	0	0	0	0	0	0	0	0	2101100	2543900	2695000
ARUBRA_DN8665_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	3299700	2392200	2691800
ARHOMBI_DN19852_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	3336200	1424600	3614900
ARUBRA_DN7713_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	3473700	1401400	3484300
ARHOMBI_DN15828_c0_g1_i1_6	910980	1074400	1138300	1110800	0	0	0	0	0	0	1949300	1578700	324580	267410	0
ARHOMBI_DN965_c0_g1_i1_1	352550	349690	374620	304890	0	0	0	0	0	0	0	0	2399300	1875500	2646000
ARHOMBI_DN4105_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	2401300	2032700	3856500
ARUBRA_DN6657_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	269430	5756400	2249200
ARUBRA_DN13405_c0_g1_i1_1	291260	144560	253630	0	0	0	0	567940	932430	0	0	217840	2099600	1559700	2182900
ARUBRA_DN1195_c0_g1_i1_2	0	227360	315130	0	0	0	0	0	0	0	0	0	2735100	1771200	3199600
ARUBRA_DN2242_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	3317500	3415000	1507000
ARHOMBI_DN3366_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	2185400	3138000	2900700
ARUBRA_DN6838_c0_g1_i1_3	171000	167930	168590	0	0	0	0	0	0	0	0	0	2666500	1494600	3459000
ARUBRA_DN10378_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	2654800	3038000	2423900
ARHOMBI_DN5914_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	3087100	1949500	3054600
ARHOMBI_DN5134_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	2738200	2228500	3123400
ARUBRA_DN16002_c0_g1_i1_2	634910	801240	854090	558450	451140	273500	1160000	782840	1921500	0	0	0	319470	323540	0
ARUBRA_DN6617_c0_g1_i1_2	1491300	1675700	1563400	694440	1519800	0	191570	210030	383920	0	0	0	328970	0	0
ARHOMBI_DN7393_c0_g1_i1_3	939170	1236100	2820400	1718300	0	0	0	0	0	0	0	482140	289790	543860	0
ARHOMBI_DN1339_c0_g1_i1_3	616810	1037100	2396900	430140	1740800	155920	0	1632200	0	0	0	0	0	0	0
ARHOMBI_DN16218_c0_g1_i1_1	2395600	2127300	2493700	977160	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN3982_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	1740200	2990900	3253900
ARHOMBI_DN2364_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	2092900	2996000	2891500
ARHOMBI_DN5683_c0_g1_i2_5	0	0	0	0	0	0	0	0	0	0	0	0	1262400	2206900	4497300

ARUBRA_DN14982_c0_g1_i1_3	991720	1230200	1634400	1358900	917030	0	1067800	0	0	0	0	0	0	613180	152880
ARHOMBI_DN21103_c0_g1_i1_1	462140	0	446820	877630	0	0	0	469800	2234800	0	0	0	1275100	995420	1185700
ARUBRA_DN18762_c0_g1_i1_4	707980	645170	1016500	555420	0	215860	0	0	663990	1939900	0	1786500	187030	209110	0
ARUBRA_DN4063_c0_g1_i2_5	0	0	0	0	0	0	104710	0	268480	0	0	90001	1923200	2594800	2932500
ARUBRA_DN11481_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	247360	4805200	2850000
ARUBRA_DN934_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1110800	1803200	4971800
ARUBRA_DN3268_c0_g1_i1_2	97261	137100	0	0	0	0	0	0	0	0	0	0	3052900	2406300	2181700
ARHOMBI_DN2479_c0_g1_i1_1	385820	195430	482600	255850	899790	0	0	1398600	3202300	0	0	0	521520	0	525680
ARUBRA_DN1490_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1287700	1429000	5145900
ARUBRA_DN20284_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	2984300	2399700	2469900
ARUBRA_DN12380_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7808300
ARHOMBI_DN16116_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	2619600	2738700	2448700
ARHOMBI_DN6092_c0_g1_i1_1	374350	255160	289960	208330	0	0	0	0	448420	0	0	0	1996300	2384600	1812300
ARHOMBI_DN15878_c0_g1_i1_3	92447	163350	51539	113080	740810	0	0	1228300	0	1591600	1944600	1728700	0	0	0
ARHOMBI_DN2833_c0_g1_i1_1	0	214010	0	1405100	0	0	0	0	5418800	0	0	0	0	0	605070
ARUBRA_DN16146_c0_g1_i1_4	92515	124560	267090	74800	0	0	0	0	0	0	0	0	2784100	1863900	2409900
ARHOMBI_DN10766_c0_g1_i1_6	433700	328560	430360	227820	0	331600	2207800	1343300	2132800	0	0	0	0	79609	89868
ARHOMBI_DN5588_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	2144100	2628900	2831100
ARUBRA_DN22820_c0_g1_i1_3	1140500	2177000	1761200	1465500	785360	0	0	0	0	0	0	0	0	0	269700
ARHOMBI_DN5983_c0_g1_i1_5	581810	527070	186610	110690	407360	0	0	0	221520	0	0	0	1390900	1813000	2354200
ARUBRA_DN20709_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	2095000	0	1054000	3249500	1154000
ARUBRA_DN1983_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	2308800	2251300	2953400
ARHOMBI_DN3005_c0_g2_i1_6	122910	122060	0	0	0	0	0	0	0	0	0	0	3312300	3318000	606000
ARHOMBI_DN5420_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	2774600	2459500	2228900
ARUBRA_DN3944_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	2532800	1936700	2984400
ARHOMBI_DN18815_c0_g1_i1_6	345910	599690	471090	379290	0	0	0	0	0	2823600	0	2470700	0	0	343840
ARHOMBI_DN5059_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	3612800	1867200	1919100

ARHOMBI_DN5953_c0_g1_i1_4	355690	301750	191460	1402200	227960	0	190670	419690	0	1037800	1262500	1265300	235640	490550	0
ARUBRA_DN193_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	3087200	3923600	356620
ARUBRA_DN7445_c0_g1_i1_4	1954400	1783600	848670	1257900	0	0	796440	700540	0	0	0	0	0	0	0
ARHOMBI_DN18779_c0_g1_i1_3	515840	580010	478540	212270	502450	0	0	676300	0	2771600	1578100	0	0	0	0
ARUBRA_DN19198_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	2794300	1926200	2521900
ARHOMBI_DN5769_c0_g1_i1_5	0	73428	44849	0	0	0	0	0	0	0	0	0	0	435670	6648500
ARHOMBI_DN18804_c0_g1_i1_4	512040	428000	283710	764500	0	0	0	0	1664100	0	0	0	1237600	1054500	1219200
ARHOMBI_DN7_c0_g2_i1_2	301910	141130	315270	201150	0	0	0	0	382410	0	0	0	1778000	1935400	2080400
ARUBRA_DN3923_c0_g1_i1_5	283920	0	552220	0	1816800	799560	1359400	1734400	423510	0	0	0	145690	0	0
ARHOMBI_DN6177_c0_g2_i2_3	0	2859100	0	1583600	0	0	0	0	0	0	0	0	0	406260	2262600
ARHOMBI_DN24695_c0_g1_i1_4	432820	383130	643460	414620	1861300	0	0	0	0	0	0	0	1160400	942640	1236500
ARHOMBI_DN2476_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	4681000	966980	1423100
ARHOMBI_DN22511_c0_g1_i1_1	428160	343200	614690	270810	397400	288340	0	0	0	0	0	0	1587700	1184900	1948600
ARHOMBI_DN3114_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	2528300	1842200	2670400
ARUBRA_DN16322_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	2238400	2155500	2644700
ARUBRA_DN3916_c0_g1_i1_5	0	145300	225550	165390	0	0	0	0	0	0	0	0	2008600	2154100	2335600
ARUBRA_DN4811_c0_g2_i1_4	690560	701260	758840	598870	786420	0	0	944040	2545000	0	0	0	0	0	0
ARUBRA_DN18543_c0_g1_i1_6	0	94933	0	0	0	0	0	492400	0	0	0	0	2388000	851960	3194800
ARHOMBI_DN3540_c0_g1_i1_2	0	182840	274530	0	0	0	414490	0	1405900	417720	0	0	1169300	1303600	1845200
ARUBRA_DN478_c0_g1_i1_2	0	130010	0	149920	485490	0	705500	785800	4278900	0	0	0	0	0	435600
ARUBRA_DN20269_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	1278900	2490500	3197600
ARUBRA_DN20878_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	622640	0	0	3289800	1796300	1220900
ARHOMBI_DN912_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	1375000	2369800	3161500
ARUBRA_DN11488_c0_g1_i1_6	157660	99610	0	0	0	0	0	0	0	0	0	0	1894400	2220100	2524900
ARUBRA_DN19442_c0_g1_i1_2	471870	495420	355290	176750	1584600	0	1587100	962770	1259000	0	0	0	0	0	0
ARUBRA_DN4301_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	2105200	1886300	2887500
ARUBRA_DN16241_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	5081700	1785900

ARUBRA_DN6197_c0_g1_i1_1	1873600	2014300	2446000	514310	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN5359_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	3577500	803660	2451200
ARUBRA_DN20048_c0_g1_i1_1	93837	0	135570	0	0	0	0	0	0	0	0	0	1705700	2259500	2637800
ARHOMBI_DN6095_c0_g2_i1_5	262880	197940	252080	289920	0	0	411820	908590	240330	0	835320	0	835510	867810	1681900
ARUBRA_DN4711_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	1362700	2723000	2651700
ARUBRA_DN2566_c0_g2_i1_5	75010	0	0	141750	0	0	0	0	0	0	0	105370	2516300	1093100	2801000
ARHOMBI_DN6176_c1_g1_i1_5	326810	231400	174480	0	2026200	1615400	2308400	0	0	32250	0	0	0	0	0
ARUBRA_DN413_c0_g1_i1_3	0	0	0	0	0	547910	0	0	0	2958600	3201600	0	0	0	0
ARUBRA_DN16443_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1472500	2582500	2632400
ARHOMBI_DN15325_c0_g1_i1_4	473320	0	0	718170	0	0	0	1812700	2155800	0	831260	682590	0	0	0
ARHOMBI_DN5371_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	2180600	2048800	2415700
ARUBRA_DN4439_c0_g1_i1_3	214220	231720	185950	205310	0	0	0	0	0	0	0	0	0	3847400	1951900
ARHOMBI_DN24520_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	2324200	2114500	2189500
ARHOMBI_DN900_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	2616400	867790	3142200
ARUBRA_DN2910_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	1085300	5535100
ARHOMBI_DN5383_c0_g1_i1_2	0	0	0	0	6606800	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN1777_c0_g1_i1_3	0	0	0	0	0	0	0	0	849320	1821400	2042500	1748100	0	0	92194
ARHOMBI_DN4470_c0_g1_i1_6	115480	109480	0	104510	0	0	0	0	0	0	0	0	0	3199400	3018300
ARUBRA_DN22163_c0_g1_i1_3	390050	1265100	1472400	181970	330030	0	646370	0	0	0	0	0	864180	593890	802930
ARHOMBI_DN13192_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	2176600	2492300	1805100
ARHOMBI_DN54_c0_g1_i1_2	0	0	0	43861	0	0	0	0	0	0	0	0	2040000	946940	3430100
ARHOMBI_DN4900_c0_g1_i1_5	1934800	1397500	1523300	279090	0	0	985550	0	0	339680	0	0	0	0	0
ARHOMBI_DN13072_c0_g1_i1_6	117150	126450	0	112720	0	0	0	286320	482050	337980	0	0	1805800	1124200	2059700
ARUBRA_DN14237_c0_g1_i1_6	0	0	0	0	680030	0	0	0	5771700	0	0	0	0	0	0
ARHOMBI_DN18431_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	2840600	1895600	1679200
ARUBRA_DN8433_c0_g1_i1_6	1305500	1355100	1529200	1043300	0	0	0	0	1170900	0	0	0	0	0	0
ARHOMBI_DN19091_c0_g1_i1_5	1098800	1272500	1605300	600040	919700	351750	0	0	0	0	0	0	194750	163230	186780

ARUBRA_DN18317_c0_g1_i1_5	674990	750470	799730	1095400	310980	0	0	0	2705900	0	0	0	0	0	0
ARHOMBI_DN22440_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	1497800	3166700	1650000
ARHOMBI_DN8601_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	6311300	0	0
ARHOMBI_DN25934_c0_g1_i1_3	1090600	538560	595110	506040	0	0	0	0	1648600	0	0	0	974510	955170	0
ARHOMBI_DN13008_c0_g1_i1_6	418680	463700	1320500	308690	0	0	0	582540	2387200	0	0	805970	0	0	0
ARUBRA_DN1845_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	1940500	1415600	2921600
ARUBRA_DN4305_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	2620700	2398400	1250800
ARUBRA_DN13152_c0_g1_i1_3	0	0	0	0	0	174490	505440	0	108280	0	0	0	2726400	644540	2107100
ARUBRA_DN3999_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	1850600	2005600	2392000
ARUBRA_DN5726_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	1750900	2224500	2270500
ARHOMBI_DN3987_c0_g1_i1_4	376980	319750	361890	0	0	0	0	0	0	0	0	0	1753500	1553000	1872200
ARHOMBI_DN9641_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	2916900	1416200	1902000
ARUBRA_DN16264_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	3196200	1373300	1657200
ARHOMBI_DN15803_c0_g1_i1_2	0	0	0	0	0	141250	0	0	0	3064800	0	3009600	0	0	0
ARUBRA_DN1574_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	3203200	3011600	0
ARHOMBI_DN1369_c0_g1_i1_5	193560	132770	125570	184440	0	0	0	0	0	0	0	0	1072100	2041800	2447600
ARUBRA_DN8743_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1760400	2426700	1970300
ARHOMBI_DN1764_c0_g1_i1_5	0	0	159490	0	0	0	0	0	0	0	0	0	1383700	2317800	2291900
ARHOMBI_DN5253_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	2389300	1833900	1916700
ARHOMBI_DN5557_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	1161800	2727000	2226700
ARHOMBI_DN27310_c0_g1_i1_4	225800	88525	269000	96005	0	0	465170	0	725460	0	2270700	1967400	0	0	0
ARUBRA_DN99_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	1993200	1793700	2302200
ARUBRA_DN3903_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	2339800	2677700	1068700
ARUBRA_DN620_c0_g1_i1_5	0	0	0	0	0	0	0	0	573070	0	0	0	1596000	1580800	2333500
ARUBRA_DN7726_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	2725000	422760	2934300
ARHOMBI_DN12388_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1340700	1881100	2853000
ARHOMBI_DN5442_c0_g1_i1_6	582430	732620	501780	1263300	0	0	0	0	0	0	0	0	580830	600930	1806600

ARHOMBI_DN97_c0_g1_i1_1	268750	719950	921590	576390	420480	138280	1762100	920850	0	0	0	0	145610	0	179590
ARHOMBI_DN6380_c0_g1_i1_4	0	0	0	0	0	142950	0	0	4226300	0	0	0	0	1675400	0
ARUBRA_DN7925_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	1432800	2050700	2556200
ARHOMBI_DN4703_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1180700	1905000	2933500
ARUBRA_DN2228_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	1849900	2177600	1989600
ARUBRA_DN23264_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1875900	1737900	2391600
ARUBRA_DN22823_c0_g1_i1_2	1310100	1373100	1010400	1585600	422970	0	0	0	0	0	0	0	0	129990	171040
ARHOMBI_DN3499_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	1647600	1656900	2684300
ARHOMBI_DN6537_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	1780200	2315600	1865800
ARUBRA_DN16598_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	2722500	0	3075400	143790	0	0
ARUBRA_DN3848_c0_g2_i1_1	0	2424600	2972600	219310	0	0	0	0	0	0	0	237360	0	0	0
ARUBRA_DN16655_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	2393600	1434600	2018100
ARHOMBI_DN2235_c0_g1_i1_5	663660	835690	1595300	270350	0	140470	323280	0	0	0	0	0	408260	519890	1041900
ARUBRA_DN19778_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1365200	2185000	2231400
ARUBRA_DN5666_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	1336500	2178400	2262800
ARUBRA_DN5508_c0_g1_i1_2	322370	0	720160	536160	0	0	0	2700400	1466000	0	0	0	0	0	0
ARUBRA_DN3962_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	3072400	0	2645600
ARUBRA_DN20257_c0_g1_i1_3	1632200	858020	113400	60808	879160	522120	0	909650	229650	0	0	0	0	489500	0
ARUBRA_DN11024_c0_g1_i1_6	256190	411030	439400	115560	338980	0	0	0	0	1262200	1508800	1356400	0	0	0
ARUBRA_DN21569_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	2602900	1269400	1812900
ARUBRA_DN965_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1851000	1764700	2068300
ARHOMBI_DN27321_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	1982500	2105400	1580200
ARUBRA_DN1379_c0_g2_i1_4	0	0	0	0	2212600	0	2819300	0	0	0	0	0	163260	251480	217140
ARUBRA_DN21229_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	1822300	1944200	1885500
ARUBRA_DN16619_c0_g1_i1_3	747480	881400	761900	431230	0	0	408620	0	858000	0	0	0	327630	576000	642730
ARHOMBI_DN17281_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	1981800	1790000	1831800
ARHOMBI_DN4623_c0_g1_i1_3	114080	90009	90690	0	0	0	0	0	0	0	0	0	3074300	1081100	1145600

ARUBRA_DN6168_c0_g1_i1_1	2325000	1470000	1220900	578280	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN24755_c0_g1_i1_2	333720	332350	0	0	0	0	0	0	0	0	0	0	2389200	0	2528300
ARUBRA_DN4123_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	2384300	1639800	1558900
ARUBRA_DN9_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	1348000	2041600	2176500
ARHOMBI_DN6166_c0_g1_i1_6	164380	0	0	172830	0	0	0	0	0	0	0	0	377550	3329000	1503000
ARUBRA_DN1535_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	1734300	1773700	2033200
ARUBRA_DN17285_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	1564200	1739100	2227000
ARHOMBI_DN20415_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	2533900	2529100	457410
ARHOMBI_DN6137_c0_g1_i1_4	354780	254900	472730	313350	0	0	0	198940	0	0	0	0	1099400	1245200	1571300
ARUBRA_DN20044_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	2127600	1315400	2061500
ARUBRA_DN20625_c0_g1_i1_2	553980	1447600	801840	764030	503230	59200	0	349620	891070	0	0	0	0	0	121810
ARUBRA_DN21250_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	2231500	3260300	0
ARUBRA_DN4028_c0_g1_i2_4	0	0	0	0	0	0	0	0	0	0	0	0	827910	1713600	2945900
ARUBRA_DN12697_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	3118600	1105700	1262300
ARUBRA_DN17667_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	1044800	2013800	2423100
ARHOMBI_DN16026_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	2045500	1749300	1679900
ARUBRA_DN16494_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1307300	2305000	1838100
ARUBRA_DN6330_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	4902100	543300	0
ARUBRA_DN13172_c0_g1_i1_1	1109700	1948900	1271500	1109900	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN6108_c0_g1_i2_2	100490	121260	102410	27297	2027900	0	3051200	0	0	0	0	0	0	0	0
ARUBRA_DN20543_c0_g1_i1_1	732330	471830	1116100	295150	796260	0	839350	202570	865640	0	0	0	0	83624	0
ARUBRA_DN3626_c0_g2_i1_5	1462800	897990	1051000	427620	287490	0	767160	0	0	0	0	0	0	226450	272700
ARHOMBI_DN3946_c0_g1_i1_1	111590	145180	110760	0	0	0	0	0	0	0	0	0	798970	1085400	3139000
ARUBRA_DN17212_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	1345300	1501700	2532100
ARHOMBI_DN1738_c0_g2_i1_2	892980	1588500	2354500	537820	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN4695_c0_g1_i1_1	1214000	2032100	2107500	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN6843_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	1480500	1446300	2410400

ARHOMBI_DN565_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	5333100	0	0	0	0	0
ARUBRA_DN12655_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	1031200	1953500	2340700
ARHOMBI_DN7486_c0_g1_i1_4	1271700	1629700	1810800	587310	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN3745_c0_g1_i1_6	1452500	827220	1331800	506890	545330	304810	0	0	0	0	0	244310	85758	0	0
ARHOMBI_DN161_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	613780	1944100	2737200
ARHOMBI_DN4381_c0_g1_i1_4	103700	118720	0	97745	0	0	0	0	0	0	2736100	2236100	0	0	0
ARUBRA_DN4254_c0_g2_i1_1	1207600	1139100	1474500	757090	0	0	0	0	0	0	0	0	102380	487100	116570
ARUBRA_DN4783_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1395900	1913600	1967700
ARHOMBI_DN4848_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	1499500	1831500	1941900
ARHOMBI_DN16223_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	2658500	1614400	992490
ARHOMBI_DN19081_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	2301300	1039500	1905200
ARUBRA_DN24202_c0_g1_i1_3	892100	1876600	1291400	1183900	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN3211_c0_g1_i1_4	152740	126860	281590	302370	0	0	0	2441100	1451200	0	0	0	92610	114420	251030
ARUBRA_DN20320_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	924740	900040	3380600
ARUBRA_DN4936_c0_g2_i1_2	0	0	27486	0	808630	0	610060	0	0	589050	690070	607180	0	793010	1060800
ARUBRA_DN9672_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	1123000	1133500	2929400
ARUBRA_DN19765_c0_g1_i1_2	461970	597490	403530	962730	0	0	0	0	1003300	0	0	0	734880	0	995860
ARUBRA_DN3204_c0_g2_i1_1	174190	0	213200	66850	0	0	0	0	0	0	0	0	1849700	1899300	949420
ARUBRA_DN3663_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	1276900	2663400	1189800
ARHOMBI_DN23207_c0_g1_i1_1	690300	617030	993130	0	758940	0	0	0	816520	0	0	0	0	585680	628150
ARHOMBI_DN10568_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	1512100	1774900	1785100
ARUBRA_DN26415_c0_g1_i1_1	0	317370	0	0	0	0	0	0	0	0	0	0	637570	1874000	2238000
ARHOMBI_DN4088_c0_g1_i1_3	568130	236990	587250	0	163460	0	0	0	0	0	0	0	1355800	1285500	866880
ARHOMBI_DN5585_c0_g1_i1_3	308490	847000	874900	363750	116680	0	224220	238210	0	1090300	0	278830	0	395580	313180
ARHOMBI_DN14389_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1359700	0	3665400
ARUBRA_DN11036_c0_g1_i1_1	203270	443880	147330	30133	489640	0	0	0	0	0	0	0	1594600	381390	1730700
ARHOMBI_DN6168_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	1118800	2438800	1462600

ARHOMBI_DN1051_c0_g1_i1_2	408410	291280	681120	417780	0	438040	815500	0	1505400	0	0	0	146830	128250	146400
ARHOMBI_DN4618_c0_g1_i1_5	0	0	0	649880	0	0	0	0	0	0	0	4323700	0	0	0
ARUBRA_DN5779_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	2166800	590630	2203200
ARHOMBI_DN11483_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	1573300	1573400	1807200
ARHOMBI_DN15111_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	2325200	1160100	1460000
ARUBRA_DN343_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	2475500	2444200	0
ARHOMBI_DN12998_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	1206200	2069800	1641800
ARHOMBI_DN1655_c0_g1_i1_1	467690	753500	1352400	240650	220150	532960	155460	0	284300	0	0	0	358140	110030	382170
ARUBRA_DN8461_c0_g1_i1_4	110960	424920	400980	301550	470210	520590	0	789750	920590	0	0	0	260060	339320	304900
ARHOMBI_DN17992_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	1056600	2697000	1079500
ARUBRA_DN796_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	2391700	781340	1651500
ARHOMBI_DN11775_c0_g1_i1_1	0	0	0	0	0	0	0	0	743380	0	0	0	1301600	1243800	1529700
ARUBRA_DN3727_c0_g1_i1_4	0	647930	595500	1755600	0	0	0	0	1815600	0	0	0	0	0	0
ARUBRA_DN7635_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	1914700	1192400	1707400
ARHOMBI_DN17384_c0_g1_i1_1	301160	368790	276530	0	629760	0	706600	0	835590	0	0	0	791560	614970	286760
ARHOMBI_DN8440_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	953970	1895900	1957000
ARHOMBI_DN4904_c0_g1_i1_1	1250700	1165300	1577800	717780	0	0	93508	0	0	0	0	0	0	0	0
ARUBRA_DN24171_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	1612500	1485300	1698900
ARHOMBI_DN15505_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	1518400	1410200	1846700
ARUBRA_DN19884_c0_g1_i1_4	761700	572330	786480	281450	519230	0	526860	0	0	0	1327100	0	0	0	0
ARHOMBI_DN2480_c0_g1_i1_6	1118500	1150100	1247300	458360	287860	0	338770	0	0	0	0	0	0	162850	0
ARHOMBI_DN5911_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	1927500	1473100	1349200
ARHOMBI_DN11895_c0_g1_i1_5	804710	838870	1252100	500290	0	629140	0	703550	0	0	0	0	0	0	0
ARHOMBI_DN10040_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	2285200	2430500	0
ARHOMBI_DN20237_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1318200	1996700	1388100
ARHOMBI_DN13255_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	3209400	672650	814550
ARUBRA_DN1076_c0_g1_i1_4	652870	573710	790130	0	0	0	169290	0	0	0	0	0	659380	473870	1334600

ARHOMBI_DN7071_c0_g1_i1_2	323700	376190	230290	38776	692400	0	765980	268120	428610	0	0	0	1063700	463750	0
ARUBRA_DN13122_c0_g1_i1_4	0	0	0	0	0	0	4640900	0	0	0	0	0	0	0	0
ARHOMBI_DN1703_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	1273900	1775300	1588000
ARUBRA_DN8641_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	1130800	2430000	1071300
ARUBRA_DN2071_c0_g3_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	1698100	864620	2067500
ARUBRA_DN24590_c0_g1_i1_2	752700	854170	1020000	757100	0	0	726510	373680	0	0	0	0	133690	0	0
ARUBRA_DN9637_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	1523100	1459200	1627700
ARUBRA_DN12612_c0_g1_i1_4	404210	400930	465900	381600	0	0	453330	0	1194200	0	0	1111900	182910	0	0
ARHOMBI_DN3999_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	1569200	1119400	1888800
ARHOMBI_DN5284_c0_g1_i1_4	99351	101580	64183	0	0	0	0	0	0	0	0	0	731920	747690	2819900
ARUBRA_DN7275_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	455330	1889000	2214200
ARHOMBI_DN3047_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	1776400	1311500	1464200
ARUBRA_DN12194_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	1440100	3107600
ARHOMBI_DN20434_c0_g1_i1_2	108620	0	210970	0	825920	309550	903690	656950	1258200	0	0	0	0	253250	0
ARHOMBI_DN3438_c0_g1_i1_6	423800	315700	355500	0	0	106040	0	0	0	0	0	0	504170	645420	2139700
ARHOMBI_DN4924_c0_g1_i1_5	115050	0	0	0	0	0	0	0	0	0	0	0	1385100	1403700	1580100
ARUBRA_DN11906_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	1858300	2622000	0
ARUBRA_DN21459_c0_g1_i1_4	368280	2792200	410710	906860	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN23079_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	1868500	2582300	0
ARUBRA_DN15741_c0_g1_i1_6	747610	1056400	777850	694780	0	0	0	0	1151700	0	0	0	0	0	0
ARHOMBI_DN3883_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	1023700	979800	2415700
ARUBRA_DN4014_c0_g2_i1_3	1824800	1979000	610480	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN4532_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	98849	3478800	833200
ARUBRA_DN7957_c0_g1_i1_1	79005	60090	63035	25318	0	186540	1259600	1477300	341680	0	0	0	426260	489900	0
ARHOMBI_DN22787_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	860630	1137300	2390800
ARUBRA_DN18867_c0_g1_i1_5	0	78258	337000	119720	641700	0	0	0	0	0	0	0	2051600	0	1157300
ARHOMBI_DN17883_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	1167700	1361300	1853000

ARHOMBI_DN14524_c0_g1_i1_1	181490	166460	42888	49932	0	0	0	302200	0	1642400	1982700	0	0	0	0
ARUBRA_DN2441_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	1349900	1389200	1599000
ARUBRA_DN25648_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	1376000	1390400	1567600
ARUBRA_DN4730_c0_g1_i1_2	259070	177740	331240	0	1385400	0	816070	307680	533230	0	0	0	0	361410	155240
ARUBRA_DN4181_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	1051600	3273900
ARHOMBI_DN26738_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	825810	2469800	1029300
ARUBRA_DN5147_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	1300900	1305500	1709000
ARHOMBI_DN5499_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1748600	1893500	664760
ARUBRA_DN8113_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1201000	816480	2282400
ARHOMBI_DN1623_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	726810	1806000	1761600
ARUBRA_DN4329_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	1710200	713560	1870300
ARUBRA_DN4117_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	2106400	0	2168600
ARUBRA_DN18085_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	2504300	1768100	0
ARUBRA_DN5456_c0_g1_i1_2	265730	242380	459680	310070	0	0	395020	0	0	0	0	0	745050	1029500	824830
ARHOMBI_DN23974_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	1406100	1294200	1569200
ARHOMBI_DN3770_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	1979200	100340	2176000
ARUBRA_DN4031_c0_g1_i1_2	516110	409560	763780	770440	0	0	0	449200	1338800	0	0	0	0	0	0
ARUBRA_DN4198_c0_g2_i2_4	258350	245750	330100	187810	835660	238670	205070	0	1945400	0	0	0	0	0	0
ARHOMBI_DN16331_c0_g1_i1_2	0	66377	0	0	0	0	0	0	0	0	0	0	989360	2714200	467260
ARHOMBI_DN8849_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	1555300	980300	1695600
ARUBRA_DN6372_c0_g1_i1_2	0	111360	0	0	0	0	0	0	0	0	0	0	1226600	1478000	1408500
ARUBRA_DN16718_c0_g1_i1_3	0	0	0	0	0	0	0	0	366340	0	0	0	1396000	1162800	1291100
ARHOMBI_DN10686_c0_g1_i1_3	531150	619880	696960	374510	0	0	669500	0	0	0	0	0	368850	0	938610
ARUBRA_DN8773_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	4074600	103760	0
ARUBRA_DN1981_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	1623700	2552700
ARHOMBI_DN6947_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	1737500	2278400	153130
ARHOMBI_DN4632_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	926680	1239100	2000000

ARHOMBI_DN14482_c0_g1_i1_6	70952	0	71480	41380	0	0	629640	737870	0	0	0	0	1153800	0	1456700
ARHOMBI_DN3429_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	923680	1272500	1952200
ARHOMBI_DN3622_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	1498000	1238900	1410700
ARUBRA_DN4615_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4132300
ARHOMBI_DN17829_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	2139600	469730	1491300
ARUBRA_DN6205_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	1785200	1188400	1103900
ARUBRA_DN24096_c0_g1_i1_3	792800	0	0	0	0	0	0	0	0	0	3279700	0	0	0	0
ARUBRA_DN1065_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	988090	1481200	1600000
ARHOMBI_DN12564_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	1034400	992000	2034400
ARHOMBI_DN3278_c0_g1_i1_3	1181200	820440	365240	350630	0	0	269650	184070	0	0	0	0	0	563120	317540
ARUBRA_DN16058_c0_g1_i1_4	278290	327450	175010	336310	0	45268	0	168230	0	0	0	0	0	1488200	1232800
ARUBRA_DN9760_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1330100	1646800	1069200
ARHOMBI_DN6246_c0_g1_i3_3	0	0	0	837140	0	0	0	1276400	1923200	0	0	0	0	0	0
ARHOMBI_DN3643_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	1081200	0	2946000
ARUBRA_DN18439_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1305600	1264200	1452300
ARUBRA_DN4784_c0_g2_i3_2	0	0	0	0	0	0	0	0	0	0	0	0	1507900	1333000	1175000
ARHOMBI_DN16305_c0_g1_i1_3	0	0	0	0	126810	0	0	0	0	0	0	0	1706100	2179400	0
ARUBRA_DN1937_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	1141600	1440300	1430200
ARHOMBI_DN3129_c0_g1_i1_2	955320	869730	779840	312240	0	0	0	0	0	0	0	0	0	0	1094500
ARUBRA_DN1180_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	2211400	745200	1026700
ARHOMBI_DN24079_c0_g1_i1_2	293110	341600	157170	249330	529400	136120	0	339960	1734900	0	0	0	194700	0	0
ARHOMBI_DN17905_c0_g1_i1_4	0	196550	198150	466770	0	0	0	0	0	0	1633100	1468700	0	0	0
ARHOMBI_DN13275_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	2509800	0	1438400
ARHOMBI_DN17238_c0_g1_i1_3	319720	322890	320170	112790	0	108850	310590	414460	1789800	0	0	0	0	0	221380
ARHOMBI_DN6259_c0_g2_i7_3	0	67615	0	0	0	0	0	0	0	1985800	1863700	0	0	0	0
ARHOMBI_DN4135_c0_g2_i1_5	410610	0	572490	431510	989190	338450	503190	666930	0	0	0	0	0	0	0
ARUBRA_DN4552_c1_g2_i1_5	1289300	1416400	478570	719190	0	0	0	0	0	0	0	0	0	0	0

ARHOMBI_DN6298_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	1878300	2024600
ARHOMBI_DN2163_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	1501900	1362700	1032900
ARHOMBI_DN6274_c0_g2_i10_6	797130	492330	109330	578920	325580	803480	785020	0	0	0	0	0	0	0	0
ARUBRA_DN6417_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	1803000	2083800	0
ARUBRA_DN16375_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1299500	1149200	1436700
ARUBRA_DN20085_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	2363700	841520	679260
ARHOMBI_DN7053_c0_g1_i1_6	227550	479010	300260	458270	998960	0	0	245500	0	0	0	264090	907570	0	0
ARHOMBI_DN4215_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	2005800	1093900	779470
ARUBRA_DN6101_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	2135600	892210	845570
ARHOMBI_DN5908_c0_g1_i1_6	89155	0	0	99559	0	50143	0	0	0	0	0	0	771600	1023400	1831300
ARHOMBI_DN12316_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	1563900	2293400
ARHOMBI_DN1573_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	1175800	1640100	1028900
ARUBRA_DN3281_c0_g1_i1_4	75227	0	127210	0	854270	364940	956280	870580	406630	189670	0	0	0	0	0
ARHOMBI_DN5746_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	1753600	2086200
ARUBRA_DN17629_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	1582100	477780	1775000
ARHOMBI_DN1692_c0_g1_i1_5	0	65144	0	101840	0	0	0	0	0	0	0	0	2031700	273470	1333000
ARUBRA_DN15157_c0_g1_i1_2	0	193730	0	512720	0	0	0	0	1312600	0	943460	834860	0	0	0
ARHOMBI_DN17586_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	1785800	1745300	258500
ARUBRA_DN16576_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	1110900	1228200	1441900
ARHOMBI_DN12404_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	588820	632250	2554500
ARHOMBI_DN5690_c0_g1_i1_6	0	0	0	0	0	0	0	677850	0	999300	991370	935680	0	161220	0
ARHOMBI_DN14107_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	1363000	1155300	1247000
ARUBRA_DN21696_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	2106000	1655500	0	0	0
ARUBRA_DN12039_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	1067200	729410	1961400
ARHOMBI_DN17617_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	1399700	610070	1740100
ARUBRA_DN25457_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	1317200	1086600	1337400
ARUBRA_DN9520_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1372100	1135400	1229900

ARUBRA_DN12747_c0_g1_i1_4	177270	0	0	0	0	0	0	0	436800	0	0	0	1555500	0	1561700
ARHOMBI_DN27277_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	1737800	383880	1604100
ARUBRA_DN21434_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1219100	1205500	1282100
ARUBRA_DN4990_c0_g1_i1_1	0	0	0	218840	0	0	0	0	3467800	0	0	0	0	0	0
ARHOMBI_DN18290_c0_g1_i1_4	773910	587560	937930	627860	0	53023	0	0	0	0	0	0	183000	514980	0
ARUBRA_DN8515_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	701320	705780	2259800
ARUBRA_DN7009_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	899440	1889400	877480
ARUBRA_DN16706_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	1222300	1102600	1341300
ARUBRA_DN8627_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	2510400	1151200
ARUBRA_DN19094_c0_g1_i1_2	291040	0	24611	0	0	0	183640	0	0	0	0	206850	548680	1570900	802800
ARUBRA_DN4464_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	1317100	945760	1361100
ARUBRA_DN19978_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	346990	562150	2711000
ARHOMBI_DN26182_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1134200	1124800	1360900
ARUBRA_DN5518_c0_g1_i1_3	82065	50023	222650	270770	0	0	0	0	0	0	0	0	976870	881050	1125700
ARHOMBI_DN6030_c1_g5_i1_6	777260	1175400	0	1653300	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN15479_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	266190	0	3315900
ARHOMBI_DN21367_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	834730	1201100	1545800
ARUBRA_DN9892_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	779120	1392500	1409700
ARHOMBI_DN8750_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1425300	1007200	1139200
ARHOMBI_DN13150_c0_g1_i1_1	0	0	0	80748	0	0	0	0	0	0	0	3462000	0	0	0
ARHOMBI_DN3473_c0_g1_i1_4	1590000	0	1447300	504360	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN22076_c0_g1_i1_2	340520	0	1381700	0	403540	248780	0	0	429110	0	0	0	0	427410	297820
ARUBRA_DN11215_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	912090	1192000	1422600
ARHOMBI_DN1047_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	572230	2485000	468870
ARUBRA_DN1728_c0_g1_i1_2	0	0	0	152680	0	0	0	0	0	0	0	0	1841700	1531300	0
ARHOMBI_DN5812_c1_g3_i1_1	365630	304120	171000	240070	0	276710	435910	0	1551700	0	0	0	0	0	173450
ARUBRA_DN17307_c0_g1_i1_2	0	0	0	0	0	0	741100	1196600	1579000	0	0	0	0	0	0

ARHOMBI_DN4645_c1_g1_i1_2	0	0	0	123840	0	0	0	0	0	0	0	0	791230	1155400	1446100
ARUBRA_DN8669_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	1489200	2020700
ARUBRA_DN5513_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	821990	408130	2278500
ARUBRA_DN4813_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	1553600	1252500	697370
ARUBRA_DN10983_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	408720	1227000	1866900
ARUBRA_DN4671_c1_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	204690	2008900	1287300
ARUBRA_DN5698_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	615710	2311000	572390
ARUBRA_DN8516_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	946810	913080	1633000
ARHOMBI_DN3145_c0_g1_i1_3	0	0	0	1455300	0	0	0	0	0	0	0	0	944530	0	1059800
ARUBRA_DN26369_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	1557900	0	1893400
ARUBRA_DN16851_c0_g1_i1_2	305850	135210	0	0	0	0	0	0	0	0	0	0	0	0	3001800
ARHOMBI_DN22852_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	1110500	1232900	1095300
ARHOMBI_DN25003_c0_g1_i1_6	0	0	0	0	0	0	0	0	181090	0	0	0	1315200	1166200	771220
ARUBRA_DN17081_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	932980	1138000	1357700
ARHOMBI_DN4475_c0_g1_i1_1	248580	245900	0	0	253740	135780	732700	0	257020	0	176620	0	512050	631120	229060
ARUBRA_DN6562_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	642990	2773900	0
ARUBRA_DN9315_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	1474000	1619900	305870
ARUBRA_DN5821_c0_g1_i1_4	958470	897440	595090	132730	0	0	0	0	0	0	0	0	0	342690	469410
ARHOMBI_DN15559_c0_g1_i1_1	1035800	1283200	385510	192060	0	249980	0	0	0	0	0	0	0	246940	0
ARHOMBI_DN3769_c0_g1_i1_4	994860	577550	610900	0	866600	0	0	333600	0	0	0	0	0	0	0
ARUBRA_DN6679_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	2986400	0	396000
ARUBRA_DN3045_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	988660	1509000	874800
ARUBRA_DN21269_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	587420	1352000	1432300
ARHOMBI_DN3422_c0_g1_i1_5	0	1404300	0	444920	0	0	0	0	0	0	0	168770	211620	211820	923450
ARUBRA_DN11946_c0_g1_i1_3	56505	0	0	0	0	0	0	0	0	0	0	0	1376900	269580	1638700
ARUBRA_DN428_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	398600	1485900	1456200
ARHOMBI_DN1985_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	1593500	433440	1285900

ARUBRA_DN11238_c0_g1_i1_6	713230	536820	492570	891280	0	0	0	0	0	0	0	0	0	0	677130
ARHOMBI_DN11429_c0_g1_i1_1	0	64572	0	0	0	436330	0	1223600	1433400	0	0	0	0	0	142420
ARUBRA_DN2583_c0_g2_i1_4	1546600	1748900	0	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN5242_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	562090	605530	2105600
ARUBRA_DN3984_c0_g1_i1_3	313520	392970	366590	388780	0	0	0	0	0	0	0	0	0	851250	959040
ARHOMBI_DN13132_c0_g1_i1_4	661920	372410	507780	545460	0	0	0	0	0	0	1072400	0	0	0	106490
ARHOMBI_DN17057_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1089900	992120	1166000
ARHOMBI_DN328_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	248150	729760	2267800
ARUBRA_DN4992_c0_g1_i2_1	218270	183010	138230	44819	699920	219260	802980	0	700260	0	0	0	228390	0	0
ARHOMBI_DN10598_c0_g1_i1_3	435250	435990	492490	78918	173750	237250	326980	346270	0	0	0	0	245180	0	461530
ARHOMBI_DN4392_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	911340	1287100	1034900
ARUBRA_DN6255_c0_g1_i1_2	158150	137310	192350	263250	0	0	0	0	761880	0	0	0	424080	307550	984350
ARUBRA_DN8387_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	223710	1359900	1632800
ARUBRA_DN2057_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	2015100	1200700	0
ARHOMBI_DN11616_c0_g1_i1_3	0	0	0	0	297910	0	0	0	2907800	0	0	0	0	0	0
ARHOMBI_DN15140_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	3185500	0
ARUBRA_DN186_c0_g1_i1_4	293870	183390	176900	0	469900	169000	336760	256960	221610	0	0	593130	141110	178910	163610
ARUBRA_DN18420_c0_g1_i1_3	527920	410840	416170	354860	370010	0	0	0	1103300	0	0	0	0	0	0
ARHOMBI_DN736_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	235760	1522200	1423100
ARHOMBI_DN8058_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	1407800	627790	1143000
ARHOMBI_DN13310_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	916480	993280	1256900
ARUBRA_DN19795_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	1048200	908800	1205000
ARHOMBI_DN15499_c0_g1_i1_1	496990	573150	554940	477110	325760	0	0	389200	328590	0	0	0	0	0	0
ARHOMBI_DN5591_c0_g1_i1_2	0	0	0	395900	0	150250	269150	515050	847140	0	0	0	155380	0	809930
ARHOMBI_DN2375_c0_g1_i1_6	0	0	0	81688	0	0	0	0	0	0	0	0	108790	1047200	1901600
ARHOMBI_DN15343_c0_g1_i1_2	663900	258840	548140	524270	593220	0	0	187330	0	0	0	0	0	0	343520
ARUBRA_DN1522_c0_g1_i1_5	0	50797	66573	0	0	0	0	0	306830	679800	756200	0	389510	402410	438950

ARHOMBI_DN6216_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	1154500	641550	1283200
ARHOMBI_DN5056_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	974130	934210	1161500
ARUBRA_DN4756_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	2052200	1017300
ARHOMBI_DN3633_c0_g1_i1_2	0	0	0	0	0	0	462640	0	0	0	0	0	529860	1315600	757720
ARHOMBI_DN16542_c0_g1_i1_1	564010	505190	564270	371990	0	0	1058900	0	0	0	0	0	0	0	0
ARHOMBI_DN2386_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	1185600	847730	1028100
ARHOMBI_DN2790_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	979010	984440	1094600
ARHOMBI_DN5912_c0_g2_i4_5	594220	429030	1455700	578670	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN9466_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	1496100	0	1560000
ARHOMBI_DN5625_c0_g1_i1_5	432460	296360	347870	185470	692580	768400	331320	0	0	0	0	0	0	0	0
ARUBRA_DN26355_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	1454200	1593600
ARUBRA_DN17795_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1203600	1171200	662240
ARUBRA_DN4209_c0_g1_i1_6	257560	269180	308240	337570	0	0	0	0	1749400	0	0	0	0	0	112160
ARHOMBI_DN13841_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	3027200	0	0
ARUBRA_DN7189_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	455730	1528300	1043000
ARUBRA_DN17439_c0_g1_i1_4	737640	920060	768910	155000	0	444740	0	0	0	0	0	0	0	0	0
ARUBRA_DN23385_c0_g1_i1_4	108030	206320	746340	0	0	0	0	0	0	600870	0	0	723620	640720	0
ARUBRA_DN3392_c0_g2_i1_2	925930	666420	641940	605740	0	172170	0	0	0	0	0	0	0	0	0
ARUBRA_DN16420_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	532150	1297200	1181900
ARUBRA_DN5780_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	2577700	429600	0
ARHOMBI_DN9968_c0_g1_i1_3	353620	573950	364240	815090	0	0	898140	0	0	0	0	0	0	0	0
ARUBRA_DN22029_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	438570	350160	2210300
ARHOMBI_DN6264_c0_g1_i2_1	0	124690	0	217230	0	141590	0	0	2515000	0	0	0	0	0	0
ARUBRA_DN9942_c0_g1_i1_2	0	810850	998880	311930	557410	0	0	0	0	0	0	0	0	303850	0
ARHOMBI_DN10129_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	885870	981630	1114600
ARUBRA_DN4816_c0_g4_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	957110	2018200	0
ARHOMBI_DN9150_c0_g1_i1_2	733040	626240	685010	101610	0	0	488320	0	0	0	0	0	338840	0	0

ARHOMBI_DN18526_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	466140	1154100	1351500
ARHOMBI_DN5512_c0_g1_i1_3	0	52009	0	0	0	0	0	0	0	0	0	0	618850	1361600	929930
ARUBRA_DN18242_c0_g1_i1_1	0	208020	79820	29076	0	0	0	0	0	0	0	0	1486600	0	1158200
ARUBRA_DN6103_c0_g1_i1_5	480620	314030	578230	0	0	0	0	0	0	0	0	0	232650	505870	830170
ARHOMBI_DN4464_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	1424500	394030	1121300
ARUBRA_DN21777_c0_g1_i1_4	0	74304	0	0	0	0	0	0	0	0	0	274560	829920	1106900	647700
ARHOMBI_DN6373_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	843450	1033900	1054900
ARUBRA_DN4890_c0_g2_i1_5	53510	111680	0	0	376800	0	0	140880	341030	0	0	0	748040	582560	572700
ARHOMBI_DN3410_c0_g1_i1_4	793750	645020	782930	695000	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN1360_c0_g2_i1_4	0	0	0	0	0	152680	471530	407980	1074200	0	0	0	251920	272390	285200
ARUBRA_DN20255_c0_g1_i1_4	0	0	0	0	0	0	925030	0	0	0	0	0	266680	529770	1192200
ARUBRA_DN12071_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	717480	793980	1401300
ARUBRA_DN25817_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	1503400	981020	415710
ARUBRA_DN24145_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	1319100	0	1568600
ARHOMBI_DN6283_c0_g6_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	1473900	1413100
ARUBRA_DN3001_c0_g1_i1_6	0	0	0	0	0	54538	0	290440	0	0	0	0	826210	833990	870730
ARUBRA_DN18461_c0_g1_i1_6	0	0	0	0	199330	0	215870	0	418070	729950	759810	545920	0	0	0
ARUBRA_DN10353_c1_g1_i1_5	630150	155490	376480	82436	506150	162050	950960	0	0	0	0	0	0	0	0
ARHOMBI_DN25343_c0_g1_i1_2	398500	464170	46720	267330	106240	0	0	0	0	0	0	0	0	0	1565300
ARHOMBI_DN7398_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1240400	690500	917030
ARHOMBI_DN6728_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	692380	653150	1499900
ARUBRA_DN3802_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	779420	1090400	973600
ARHOMBI_DN13057_c0_g1_i1_1	173140	211640	378770	92483	0	0	467390	0	575030	0	0	201090	242920	216900	276630
ARUBRA_DN9924_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	1922600	234710	676860
ARHOMBI_DN430_c0_g1_i1_3	0	0	257660	0	0	0	0	0	0	0	0	0	871020	810290	890540
ARUBRA_DN3936_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	918900	644010	1254200
ARUBRA_DN4814_c0_g1_i3_4	307920	280170	274710	181000	0	0	0	0	0	0	1773100	0	0	0	0

ARUBRA_DN2381_c0_g1_i1_1	0	0	0	1124400	0	0	0	469220	1212700	0	0	0	0	0	0
ARHOMBI_DN6212_c0_g1_i2_6	128020	145800	137270	76207	637880	372060	657030	647920	0	0	0	0	0	0	0
ARUBRA_DN20443_c0_g1_i1_3	0	876880	0	0	0	0	0	0	0	0	0	0	493790	579660	850070
ARHOMBI_DN11311_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	877780	1010700	911750
ARHOMBI_DN17429_c0_g1_i1_6	0	0	0	0	0	0	0	297930	504340	0	0	1187500	251730	297670	255330
ARUBRA_DN3578_c0_g1_i1_4	449710	452650	531930	0	0	0	0	0	0	0	0	0	1360000	0	0
ARUBRA_DN11131_c0_g1_i1_3	0	0	147790	105080	0	193980	0	0	0	0	0	0	993130	725030	622990
ARHOMBI_DN4521_c1_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	799900	1069600	904360
ARHOMBI_DN17261_c0_g1_i1_1	334320	272760	359540	343210	0	0	0	0	867980	595180	0	0	0	0	0
ARUBRA_DN1069_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	831460	862660	1078500
ARHOMBI_DN5132_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	798100	956890	1011600
ARUBRA_DN3311_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	607240	0	564080	523540	469350	598510
ARUBRA_DN8175_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	694300	1000900	1060400
ARUBRA_DN16564_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	2753100	0	0	0
ARUBRA_DN19149_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	221160	827790	484940	423350	114150	681090
ARUBRA_DN5180_c0_g1_i1_3	2029700	713820	0	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN20917_c0_g1_i1_3	1013100	625580	690550	409050	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN20733_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	242930	1168300	1317400
ARUBRA_DN10088_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	777280	978340	972550
ARHOMBI_DN19569_c0_g1_i1_5	545820	280690	175000	348120	0	0	0	0	0	0	0	1374900	0	0	0
ARUBRA_DN2998_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	1318900	1400400	0
ARUBRA_DN1494_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	782510	1285800	641320
ARHOMBI_DN4699_c0_g1_i1_3	0	0	0	0	131410	0	0	0	0	0	0	0	1059100	542060	974950
ARHOMBI_DN5814_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	219630	1041800	1437800
ARHOMBI_DN21914_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	530070	1539400	628960
ARHOMBI_DN5567_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	615320	1314700	760240
ARUBRA_DN1463_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	1068000	1053500	562970

ARHOMBI_DN17982_c0_g1_i1_5	784320	555510	690220	380380	0	0	0	0	0	0	0	0	0	272170	0
ARUBRA_DN2123_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	1481400	1195100
ARHOMBI_DN2126_c0_g2_i1_6	0	68829	83892	0	230910	0	375240	613610	1303100	0	0	0	0	0	0
ARUBRA_DN8853_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	1203800	306330	1159800
ARUBRA_DN1745_c0_g2_i1_1	0	0	0	126490	0	0	0	0	0	0	0	0	188870	963860	1380800
ARHOMBI_DN3877_c0_g1_i1_1	77387	113100	124940	662460	0	174920	0	0	1009100	495570	0	0	0	0	0
ARUBRA_DN3955_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	1253300	0	1386100
ARUBRA_DN8757_c0_g1_i1_5	720810	686040	1083400	0	145520	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN1665_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	614190	605470	1404600
ARHOMBI_DN11418_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	347880	0	749490	774290	749290
ARHOMBI_DN8306_c0_g1_i1_4	558890	670120	688630	174500	0	0	0	0	0	0	0	0	0	524230	0
ARUBRA_DN20020_c0_g1_i1_2	437830	577470	698400	899060	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN148_c0_g1_i1_1	0	154800	910130	1045800	0	291590	0	0	0	0	0	0	0	205220	0
ARHOMBI_DN25089_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	2604100	0	0
ARUBRA_DN11014_c0_g1_i1_6	538280	836570	559940	658920	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN18155_c0_g1_i1_2	696160	673330	745760	233900	0	0	232100	0	0	0	0	0	0	0	0
ARUBRA_DN5032_c2_g1_i2_2	278420	200680	413070	71101	0	0	0	0	0	0	0	0	0	874770	738870
ARHOMBI_DN5326_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	809750	737590	1021400
ARHOMBI_DN15674_c0_g1_i1_5	518310	374410	284040	0	1241500	148370	0	0	0	0	0	0	0	0	0
ARHOMBI_DN5386_c1_g1_i2_5	0	0	0	0	0	0	0	0	0	1139600	0	561710	158600	242080	455500
ARUBRA_DN4407_c0_g4_i1_6	0	0	0	0	463270	195060	544720	0	872640	0	0	0	481630	0	0
ARHOMBI_DN17588_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	110110	1091500	1355300
ARHOMBI_DN7219_c0_g1_i1_3	696640	741670	716670	395820	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN7958_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	796590	882050	864950
ARUBRA_DN4721_c0_g1_i2_1	0	865220	376180	1300300	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN5441_c0_g1_i1_5	0	0	0	0	272900	0	0	0	0	0	0	0	2266600	0	0
ARUBRA_DN7416_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	1626000	498250	402750

ARUBRA_DN6341_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	1118300	299790	1108400
ARUBRA_DN25250_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	850770	770390	901900
ARUBRA_DN12031_c0_g1_i1_3	0	0	44950	0	294600	0	0	293140	934430	0	0	0	419430	528390	0
ARUBRA_DN9279_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	833340	881990	793290
ARHOMBI_DN3515_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1244500	0	1260900
ARHOMBI_DN4682_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1085000	523990	895010
ARHOMBI_DN23760_c0_g1_i1_6	173330	144660	263940	123800	0	0	589940	537350	179260	0	0	0	0	231240	255120
ARHOMBI_DN15221_c0_g1_i1_1	194510	288450	313680	87325	0	0	0	0	0	0	0	0	238950	0	1363600
ARHOMBI_DN9078_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	623920	1306500	555670
ARUBRA_DN11010_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	720460	833560	928570
ARUBRA_DN17427_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	284720	725810	1456800
ARUBRA_DN20283_c0_g1_i1_1	806110	761590	441030	370300	0	0	0	0	0	0	0	0	80913	0	0
ARUBRA_DN18073_c0_g1_i1_6	0	0	548670	0	0	0	0	151370	1732800	0	0	0	0	0	0
ARUBRA_DN4594_c0_g2_i1_4	437370	405750	407970	0	0	0	0	269030	0	0	0	0	0	439590	466440
ARUBRA_DN4871_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2424700
ARHOMBI_DN5577_c1_g1_i1_5	0	0	0	0	0	0	0	0	275840	0	0	0	715530	615410	816710
ARHOMBI_DN21271_c0_g1_i1_1	0	222670	353680	304150	0	0	0	0	333610	0	0	0	360540	382340	465440
ARUBRA_DN8542_c0_g1_i1_4	517620	604910	196140	369800	175530	0	0	280690	272000	0	0	0	0	0	0
ARHOMBI_DN10118_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	888500	265660	1258200
ARUBRA_DN18680_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	785320	709060	917920
ARUBRA_DN2284_c0_g2_i1_3	158030	127610	226070	0	0	0	0	0	0	0	0	0	637380	596880	665740
ARUBRA_DN7415_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	954210	201430	1254400
ARUBRA_DN113_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	0	0	0	237650	0	2161900
ARHOMBI_DN26770_c0_g1_i1_3	173860	128070	0	0	0	0	0	0	0	0	0	0	683270	730150	672170
ARHOMBI_DN16112_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	780460	703990	900570
ARUBRA_DN17277_c0_g1_i1_1	756400	762660	863680	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN1288_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	1257500	1123500	0

ARUBRA_DN70_c0_g1_i1_1	0	94657	0	117420	0	0	0	0	618400	712330	837570	0	0	0	0
ARUBRA_DN18307_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	1631500	139260	602220
ARUBRA_DN17020_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	794960	695480	881710
ARUBRA_DN4917_c0_g1_i2_1	66787	209420	58817	0	0	0	0	0	0	0	0	0	387860	693150	949360
ARHOMBI_DN5372_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1761600	596480	0
ARHOMBI_DN24609_c0_g1_i1_6	311940	320050	451600	0	449160	0	500310	322150	0	0	0	0	0	0	0
ARHOMBI_DN2660_c0_g1_i1_5	267210	242690	149510	131620	345530	0	0	0	661390	0	0	0	554470	0	0
ARUBRA_DN16475_c0_g1_i1_2	130120	923950	818220	68096	0	0	0	0	410500	0	0	0	0	0	0
ARUBRA_DN23765_c0_g1_i1_1	65626	92240	0	80742	0	0	0	0	0	0	0	0	2109000	0	0
ARHOMBI_DN22879_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	979050	294200	1072100
ARUBRA_DN8139_c0_g1_i1_1	0	126970	0	0	0	0	0	0	0	0	0	396420	283180	734210	798700
ARUBRA_DN1221_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	706370	778310	850680
ARHOMBI_DN14041_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	574160	781890	975840
ARUBRA_DN4848_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	1077800	1250700
ARUBRA_DN25967_c0_g1_i1_1	0	0	0	0	0	0	0	336820	519050	0	0	0	931250	541080	0
ARUBRA_DN6775_c0_g1_i1_1	92015	516940	54102	0	1227900	340820	0	0	0	0	0	0	0	95002	0
ARHOMBI_DN4127_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	2325300	0
ARUBRA_DN6005_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	1233900	0	1074000
ARUBRA_DN9533_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	742880	717520	843130
ARUBRA_DN4945_c1_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	832950	658410	799340
ARUBRA_DN2632_c0_g1_i1_5	363530	680660	368920	47385	0	0	0	0	0	0	0	0	0	0	822320
ARUBRA_DN253_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	2279600	0
ARUBRA_DN4035_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	726860	694180	843930
ARHOMBI_DN5174_c0_g1_i1_1	672360	626650	728170	232630	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN3267_c0_g1_i1_6	1231400	0	0	0	0	0	0	0	0	0	0	0	0	351970	671310
ARUBRA_DN12853_c0_g1_i1_1	314080	328240	140040	99063	0	0	0	0	0	352890	0	0	0	469720	542540
ARHOMBI_DN20424_c0_g1_i1_6	276170	421360	550930	0	0	0	532680	0	0	0	0	0	196760	0	266760

ARUBRA_DN4281_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	464210	1071300	705890
ARHOMBI_DN3485_c0_g1_i1_4	275330	0	107040	0	0	0	328420	0	0	0	0	0	281740	0	1248800
ARUBRA_DN18869_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	456020	1315400	466930
ARHOMBI_DN804_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	1141700	286300	806820
ARUBRA_DN1537_c0_g1_i1_2	188260	578860	169700	82550	0	329420	434760	437310	0	0	0	0	0	0	0
ARUBRA_DN1957_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	691920	719410	808730
ARUBRA_DN6807_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	576850	527120	1109200
ARUBRA_DN4637_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	2210600	0
ARHOMBI_DN6131_c0_g1_i4_6	238250	285410	0	0	0	138760	0	0	0	0	0	0	0	0	1548100
ARUBRA_DN5357_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	647930	573000	989110
ARUBRA_DN2637_c0_g1_i1_4	358200	0	250340	0	0	0	272850	224940	0	0	0	0	293670	807530	0
ARHOMBI_DN16197_c0_g1_i1_4	0	0	0	0	124940	271240	0	654880	526190	244940	315860	0	0	69235	0
ARUBRA_DN10661_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	599570	1604400
ARHOMBI_DN4011_c0_g2_i1_5	0	0	205820	0	0	0	0	0	0	0	0	0	1000900	996480	0
ARUBRA_DN4545_c0_g1_i1_5	0	0	125560	269560	0	0	0	0	1802700	0	0	0	0	0	0
ARUBRA_DN22266_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	909370	1279000	0	0	0
ARUBRA_DN9362_c0_g1_i1_5	219030	221620	478520	0	0	367640	650160	232950	0	0	0	0	0	0	0
ARUBRA_DN22269_c0_g1_i1_4	0	0	0	0	0	0	263820	280410	496320	0	0	0	364000	344890	417010
ARHOMBI_DN3395_c0_g2_i1_6	354310	0	360660	223520	0	0	0	255280	0	0	0	0	244280	239270	486520
ARUBRA_DN18997_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	514760	668040	980930
ARHOMBI_DN6095_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	859340	907400	395390
ARHOMBI_DN1066_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	591880	670080	893890
ARHOMBI_DN14495_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	1281100	871150
ARUBRA_DN10359_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	535100	575160	1032300
ARUBRA_DN20926_c0_g1_i1_1	136820	121630	125040	234760	0	0	165220	0	0	0	0	0	1357600	0	0
ARHOMBI_DN3507_c0_g1_i1_4	0	263200	262640	0	0	0	0	0	0	0	0	0	0	776280	836390
ARHOMBI_DN25279_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	2134200	0

ARHOMBI_DN4819_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	315880	1814400
ARHOMBI_DN6082_c0_g1_i3_5	0	0	0	0	0	0	0	913170	0	0	0	0	456490	276750	467890
ARUBRA_DN24896_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	252380	1231400	625340
ARUBRA_DN6755_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	891490	1213400
ARHOMBI_DN5218_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	0	0	0	242050	0	1862300
ARUBRA_DN25837_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	626440	441290	1028300
ARUBRA_DN24388_c0_g1_i1_4	236390	0	0	277410	469220	212840	733210	0	0	0	0	0	0	0	165450
ARHOMBI_DN11066_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	714520	645600	733240
ARUBRA_DN3745_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	1528400	0	0	126680	267320	170310
ARUBRA_DN14017_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	648010	505590	934070
ARUBRA_DN145_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	526680	927680	626330
ARUBRA_DN11007_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	722240	0	1357600
ARUBRA_DN9096_c0_g1_i1_3	0	0	0	0	0	140190	0	552930	0	0	0	0	407620	439030	539410
ARHOMBI_DN4782_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	1070900	515120	491110
ARHOMBI_DN2849_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	793810	110100	1170400
ARHOMBI_DN7054_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	398090	377500	1285900
ARHOMBI_DN2798_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	356700	796960	889690
ARUBRA_DN18224_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	166610	956500	916190	0
ARHOMBI_DN25584_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	703750	0	1334800
ARHOMBI_DN3781_c0_g2_i1_5	685470	621370	729210	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN7337_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	662210	612310	754280
ARHOMBI_DN5812_c2_g1_i1_3	481990	556060	423310	563180	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN4150_c2_g1_i1_4	565040	534630	376080	467410	0	0	0	0	0	0	0	0	0	0	73739
ARHOMBI_DN1574_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	1379900	290890	345430
ARUBRA_DN8202_c0_g1_i1_4	0	2015100	0	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN1551_c0_g1_i1_5	0	0	0	0	346180	0	0	0	0	0	0	0	309590	847020	510310
ARUBRA_DN12626_c0_g1_i1_3	386480	374550	402530	347890	252090	0	0	0	0	0	0	0	244050	0	0

ARHOMBI_DN4054_c0_g1_i1_3	473130	391230	376940	0	0	0	246650	235620	0	0	0	0	280440	0	0
ARUBRA_DN9286_c0_g1_i1_1	72960	65801	19929	0	0	0	0	0	0	0	0	0	916970	490320	436170
ARHOMBI_DN3767_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	704930	631160	661690
ARUBRA_DN20292_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	547980	798940	646820
ARHOMBI_DN2005_c0_g1_i1_5	588810	312930	613440	306120	170040	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN4908_c0_g2_i1_1	449940	283610	259990	273260	0	110850	0	610050	0	0	0	0	0	0	0
ARUBRA_DN1276_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	444620	549420	987100
ARUBRA_DN4583_c0_g1_i2_5	0	0	153070	144850	0	197850	0	220470	0	0	0	0	387970	867380	0
ARHOMBI_DN4896_c0_g1_i3_2	281250	49698	306670	274980	0	0	0	0	1049600	0	0	0	0	0	0
ARUBRA_DN12695_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	1142300	803820	0
ARHOMBI_DN15171_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	70013	329110	1546900
ARHOMBI_DN7103_c0_g1_i1_1	205180	91124	0	50007	0	0	463700	0	546700	0	0	0	299110	290170	0
ARHOMBI_DN5209_c1_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	136430	763310	1045900
ARHOMBI_DN22071_c0_g1_i1_3	449060	538790	56863	565400	0	0	0	0	0	0	0	0	326880	0	0
ARHOMBI_DN1841_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	424850	1015800	489660
ARUBRA_DN563_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	560860	647260	721550
ARUBRA_DN24632_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	572270	721830	634550
ARUBRA_DN3539_c0_g1_i1_2	1446900	237850	69274	54180	119090	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN1361_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1924500
ARUBRA_DN11150_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	658290	457150	806390
ARHOMBI_DN1996_c0_g2_i1_5	551190	215710	1008900	144000	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN2999_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	355610	704580	859160
ARHOMBI_DN2060_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	491460	753650	669980
ARUBRA_DN9709_c0_g1_i1_6	153520	167920	129290	179540	0	0	0	0	0	0	0	0	0	573710	709840
ARHOMBI_DN23173_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	835810	1075600	0
ARHOMBI_DN10290_c0_g1_i1_3	421310	457530	614920	415060	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN2965_c0_g1_i2_5	211090	406470	0	447260	0	344250	0	0	496920	0	0	0	0	0	0

ARUBRA_DN3863_c1_g1_i1_5	375640	462220	396020	0	0	0	375190	0	0	0	0	0	0	145450	150840
ARHOMBI_DN10379_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	1900100	0	0
ARHOMBI_DN2726_c0_g1_i1_1	35777	41732	17372	39430	0	0	0	0	693710	0	0	0	414080	658020	0
ARUBRA_DN7712_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	948290	950520
ARUBRA_DN4320_c0_g1_i1_6	0	126230	0	0	0	0	0	0	0	0	0	0	494390	143970	1121800
ARUBRA_DN11275_c0_g1_i1_5	0	485550	0	514570	0	0	0	0	675200	0	0	0	210070	0	0
ARHOMBI_DN8255_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	172300	1014500	688630
ARUBRA_DN13834_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	836650	1038700
ARUBRA_DN19618_c0_g1_i1_4	458060	498380	592200	51873	0	0	96168	171140	0	0	0	0	0	0	0
ARUBRA_DN1773_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	498630	0	1364900
ARUBRA_DN1305_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	1863500	0
ARHOMBI_DN3128_c0_g1_i1_1	315290	0	201900	0	0	0	0	0	0	0	0	0	858460	265280	221080
ARHOMBI_DN20118_c0_g1_i1_1	220670	258990	318570	0	571820	0	0	0	482480	0	0	0	0	0	0
ARHOMBI_DN2022_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	1241400	0	606850
ARHOMBI_DN3079_c0_g1_i1_3	703610	677080	309880	0	150680	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN8476_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	796540	1039700
ARHOMBI_DN4305_c0_g1_i2_6	557900	562860	704410	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN10474_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	724620	618970	474030
ARHOMBI_DN6299_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	260360	470030	1086500
ARHOMBI_DN3992_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	421960	1055000	337730
ARUBRA_DN8631_c0_g1_i1_6	0	0	0	1809300	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN158_c0_g1_i1_2	109320	114310	0	109890	0	0	0	0	0	0	0	0	888450	0	585370
ARUBRA_DN6110_c0_g1_i1_1	0	46824	96195	0	0	0	0	0	0	0	1534400	0	129840	0	0
ARUBRA_DN4152_c0_g1_i1_5	0	560600	809700	433880	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN20386_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	1226300	572290	0
ARUBRA_DN3314_c0_g1_i1_4	0	0	447410	278930	0	0	1065400	0	0	0	0	0	0	0	0
ARHOMBI_DN19207_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	323720	1464500

ARUBRA_DN13376_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	545390	577560	665180
ARHOMBI_DN16745_c0_g1_i1_1	0	0	0	0	0	0	0	127820	0	0	0	0	839700	344700	475330
ARUBRA_DN4722_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	1782200	0
ARUBRA_DN881_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	285460	1055200	440650
ARHOMBI_DN16363_c0_g1_i1_2	0	0	0	0	370180	183060	0	0	1227000	0	0	0	0	0	0
ARHOMBI_DN18734_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	591490	167820	1015300
ARUBRA_DN3334_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	365460	639200	760580
ARHOMBI_DN421_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	562090	159700	1041600
ARUBRA_DN416_c0_g1_i1_2	530400	0	0	0	0	0	0	0	1232300	0	0	0	0	0	0
ARHOMBI_DN25721_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	449130	399600	912580
ARUBRA_DN11356_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	1275000	478760	0
ARUBRA_DN18553_c0_g1_i1_5	404480	389040	329540	401420	0	226280	0	0	0	0	0	0	0	0	0
ARHOMBI_DN3435_c0_g2_i1_3	0	0	108030	0	381220	152160	0	0	0	0	0	0	446820	426520	232860
ARHOMBI_DN13700_c0_g1_i1_6	405690	298970	486800	259270	0	0	285950	0	0	0	0	0	0	0	0
ARHOMBI_DN10592_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	797400	0	936580
ARUBRA_DN9072_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	906410	0	826260
ARUBRA_DN3824_c0_g1_i1_5	118450	100320	113660	0	0	0	485750	0	0	0	910690	0	0	0	0
ARUBRA_DN4832_c0_g1_i1_2	552300	490500	439670	0	0	0	245200	0	0	0	0	0	0	0	0
ARUBRA_DN9069_c0_g1_i1_4	178310	148010	220900	169310	0	112020	0	0	365320	0	531490	0	0	0	0
ARHOMBI_DN8777_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	866100	0	855610
ARHOMBI_DN23553_c0_g1_i1_1	24600	0	0	0	0	0	0	0	0	0	0	0	0	0	1695700
ARHOMBI_DN3610_c0_g1_i1_3	802660	0	0	142640	0	0	314620	317800	0	0	0	0	0	0	142610
ARHOMBI_DN5807_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1714600
ARUBRA_DN4275_c0_g1_i1_5	281040	153940	396700	216530	0	0	0	0	0	0	0	0	116370	95266	444730
ARUBRA_DN24862_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	733750	0	970360
ARUBRA_DN17478_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	551190	535370	616510
ARUBRA_DN2215_c0_g1_i1_4	305220	454920	348190	323240	0	0	0	0	271310	0	0	0	0	0	0

ARUBRA_DN7908_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	340180	1005900	354570
ARHOMBI_DN4809_c0_g2_i1_2	91095	55858	0	0	0	48718	0	0	0	0	0	0	0	727570	777030
ARUBRA_DN7769_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	178630	659620	857870
ARUBRA_DN4322_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	1586100	0	109680
ARUBRA_DN25612_c0_g1_i1_4	0	42064	57106	48860	0	491620	0	1046000	0	0	0	0	0	0	0
ARHOMBI_DN11791_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	846860	0	837840
ARHOMBI_DN5868_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	819810	863930	0
ARUBRA_DN2981_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	188610	928640	553830
ARHOMBI_DN24401_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	443600	777500	447080
ARUBRA_DN23505_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	563680	475910	626080
ARUBRA_DN17618_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	578920	511410	567240
ARUBRA_DN1478_c0_g1_i1_1	61064	0	0	0	0	0	0	0	0	0	0	0	0	387570	1208200
ARHOMBI_DN2506_c0_g1_i1_6	0	0	0	143500	0	0	0	0	0	0	0	0	0	831150	681980
ARHOMBI_DN8898_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	780870	871920	0
ARUBRA_DN3963_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	882550	0	764510
ARUBRA_DN210_c0_g1_i1_5	285950	693400	310080	355430	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN12757_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	208730	687060	744850
ARHOMBI_DN1108_c0_g2_i1_1	0	0	0	0	0	0	0	483090	742930	409780	0	0	0	0	0
ARHOMBI_DN11591_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	457570	554850	621620
ARHOMBI_DN10607_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	600970	637870	380330
ARUBRA_DN6875_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	239640	383930	995590
ARUBRA_DN25440_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	613330	1003900	0
ARUBRA_DN7688_c0_g1_i1_2	188440	167780	260830	405210	0	0	0	288020	0	0	0	0	0	147180	157950
ARHOMBI_DN19744_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	440080	789980	384860
ARUBRA_DN24337_c0_g1_i1_6	0	100190	147210	0	0	0	0	0	0	0	0	0	426010	472810	458600
ARUBRA_DN20434_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	639640	248970	714960
ARHOMBI_DN5476_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	1601900	0

ARHOMBI_DN9888_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	698620	580570	318460
ARHOMBI_DN2706_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	84422	1513000	0
ARUBRA_DN5778_c0_g1_i1_4	0	124140	99324	89795	175260	0	0	0	0	0	0	0	250190	565660	292610
ARUBRA_DN3967_c0_g1_i1_4	244210	193790	138110	398430	0	0	0	381030	237550	0	0	0	0	0	0
ARUBRA_DN26097_c0_g1_i1_3	65607	96090	0	131650	0	0	0	0	0	0	0	0	883710	0	414530
ARHOMBI_DN2700_c0_g2_i1_5	478620	565080	543130	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN8688_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	462040	500060	622750
ARHOMBI_DN15526_c0_g1_i1_1	0	111020	147040	293390	0	0	0	0	0	0	0	0	1028500	0	0
ARHOMBI_DN12805_c0_g1_i1_1	114980	87330	0	1374900	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN10876_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	642440	930180
ARUBRA_DN5971_c0_g1_i1_2	192880	850940	272120	256410	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN18415_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	791490	0	778020
ARUBRA_DN4814_c0_g1_i2_6	0	0	0	0	900610	0	656730	0	0	0	0	0	0	0	0
ARUBRA_DN21824_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	439720	474170	642950
ARUBRA_DN10839_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	484680	0	0	0	1066900
ARUBRA_DN4729_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	221500	715310	614800
ARUBRA_DN20854_c0_g1_i1_1	0	139000	97970	76328	0	0	0	0	0	0	0	0	0	589340	646600
ARUBRA_DN8756_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	643810	903610	0
ARUBRA_DN18126_c0_g1_i1_2	303590	385780	289960	541790	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN7462_c0_g1_i1_6	0	0	1520500	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN18563_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	121380	1085800	313060
ARUBRA_DN10939_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	172550	1345000
ARHOMBI_DN21563_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	584090	222360	704630
ARHOMBI_DN6102_c0_g2_i1_1	80139	88722	194410	543710	0	0	111480	489730	0	0	0	0	0	0	0
ARUBRA_DN9246_c0_g1_i1_4	119580	218280	0	114780	132070	0	127880	0	0	0	0	0	339450	0	454200
ARHOMBI_DN26256_c0_g1_i1_3	0	370600	522470	263510	0	0	0	0	348430	0	0	0	0	0	0
ARUBRA_DN22761_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	498520	438950	555750

ARHOMBI_DN20260_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	322940	0	1170000
ARHOMBI_DN19503_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	472270	479780	537890
ARHOMBI_DN10131_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	1254100	0	234640
ARHOMBI_DN19928_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	178550	344130	467600	497220
ARUBRA_DN1385_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	658910	400840	422720
ARHOMBI_DN2055_c1_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	408290	571820	500640
ARUBRA_DN22675_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	480310	461020	527570
ARHOMBI_DN1643_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	334830	1129400
ARHOMBI_DN1170_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	362750	1098500	0
ARHOMBI_DN22076_c0_g1_i1_3	0	0	138690	113290	0	0	316800	322410	0	0	0	0	150040	177670	239430
ARUBRA_DN16830_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	726780	0	730790
ARUBRA_DN17659_c0_g1_i1_1	94261	0	0	0	0	0	0	0	0	0	0	0	407360	391840	558520
ARHOMBI_DN21263_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	354710	298430	789880
ARHOMBI_DN22368_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	414290	490850	537480
ARHOMBI_DN20690_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	509690	437610	492770
ARUBRA_DN2528_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	277580	481810	675820
ARHOMBI_DN1508_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	998160	434360	0
ARHOMBI_DN4881_c0_g1_i1_3	140640	139330	249520	35921	0	0	280920	0	0	0	0	584420	0	0	0
ARHOMBI_DN24692_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	520200	904310	0
ARUBRA_DN51_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	365070	1059000
ARUBRA_DN24099_c0_g1_i1_5	353090	331070	558040	0	0	0	0	0	0	0	0	0	0	0	180600
ARUBRA_DN7587_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	616050	0	804430
ARUBRA_DN5361_c0_g1_i1_2	247470	200710	188950	423370	0	0	0	0	0	0	0	0	0	359400	0
ARHOMBI_DN2590_c0_g1_i1_1	227910	239090	148630	110140	0	0	0	0	0	91236	0	0	408800	190840	0
ARHOMBI_DN12163_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1414600	0	0
ARHOMBI_DN15490_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	1040900	0	372800
ARUBRA_DN24778_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	1413300	0	0	0	0

ARUBRA_DN20929_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	599120	0	0	385150	419850
ARUBRA_DN16965_c0_g1_i1_3	268080	266540	97510	238180	0	0	0	0	0	533750	0	0	0	0	0
ARUBRA_DN20307_c0_g1_i1_3	0	0	0	0	0	0	0	231100	0	0	0	0	881580	131910	159180
ARHOMBI_DN24428_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	110700	1114600	178150
ARUBRA_DN2923_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	1191600	0	204680
ARHOMBI_DN581_c0_g1_i1_2	111320	0	0	421550	0	0	0	0	0	0	0	0	398740	463370	0
ARHOMBI_DN6817_c0_g1_i1_1	404710	362220	0	386100	0	0	0	0	0	0	0	0	85702	154850	0
ARUBRA_DN10993_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	462510	451930	477130
ARUBRA_DN12715_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	483780	434400	470760
ARUBRA_DN9682_c0_g1_i1_4	0	0	0	0	328640	0	0	0	0	0	0	0	0	331300	728000
ARHOMBI_DN18725_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	308840	466620	611120
ARHOMBI_DN20294_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	544080	364030	476160
ARHOMBI_DN4086_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	314100	1061700
ARUBRA_DN19093_c0_g1_i1_3	321380	320730	162140	107400	0	0	0	0	0	0	0	0	462900	0	0
ARHOMBI_DN13465_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	659440	526710	185680
ARUBRA_DN20855_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	451550	431030	488950
ARUBRA_DN2934_c0_g2_i2_4	154590	170400	351660	94339	201160	0	0	0	397040	0	0	0	0	0	0
ARUBRA_DN17957_c0_g1_i1_3	298130	204490	394040	0	0	0	284240	173270	0	0	0	0	0	0	0
ARUBRA_DN189_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	891230	461990	0
ARUBRA_DN12373_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	444660	904740
ARHOMBI_DN26479_c0_g1_i1_3	319240	411840	311240	306600	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN1156_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	368790	616850	361810
ARHOMBI_DN715_c0_g1_i1_6	270150	511690	199100	0	182360	0	0	0	0	0	0	0	0	0	181610
ARUBRA_DN18388_c0_g1_i1_5	333390	271760	273240	270600	0	0	0	0	195450	0	0	0	0	0	0
ARUBRA_DN24939_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	649700	694540
ARUBRA_DN1579_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	374440	810450	158240
ARUBRA_DN3088_c1_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1342500

ARUBRA_DN18995_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	598750	311670	431360
ARUBRA_DN6428_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	457980	423770	456440
ARUBRA_DN24802_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	1335400	0	0
ARHOMBI_DN6811_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	1097900	234610
ARHOMBI_DN23413_c0_g1_i1_2	231380	216580	189000	213990	479510	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN26636_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	624130	703430
ARUBRA_DN24535_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	1110600	215410
ARUBRA_DN5752_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	582830	512400	227960
ARUBRA_DN12277_c0_g1_i1_4	311380	0	0	170120	291200	0	0	0	0	0	0	0	0	541370	0
ARUBRA_DN12763_c0_g1_i1_6	216160	211740	261340	208240	0	0	0	0	0	0	0	0	161840	252410	0
ARUBRA_DN23296_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	296580	610130	403780
ARHOMBI_DN6174_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	622680	682000	0
ARHOMBI_DN3360_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	1015100	0	288250
ARUBRA_DN4576_c0_g3_i1_3	0	0	0	0	0	0	405590	0	0	0	0	0	278910	276470	339370
ARUBRA_DN27180_c0_g1_i1_6	117750	120120	128350	91320	0	0	0	0	0	0	573640	267850	0	0	0
ARUBRA_DN3154_c0_g1_i1_6	118260	0	274480	688280	0	0	0	0	213660	0	0	0	0	0	0
ARUBRA_DN6360_c0_g1_i1_2	281520	191510	285700	160960	188370	0	0	0	0	0	0	0	0	182370	0
ARUBRA_DN24250_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	447730	373740	468620
ARUBRA_DN9113_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	506880	328160	448420
ARUBRA_DN18999_c0_g1_i1_5	0	0	0	0	0	0	0	376310	905870	0	0	0	0	0	0
ARUBRA_DN23874_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	506220	448650	324700
ARHOMBI_DN8339_c0_g1_i1_2	153940	206230	262210	72957	0	0	0	0	0	0	0	0	0	247670	336510
ARHOMBI_DN1833_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1278500
ARHOMBI_DN187_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	303670	973030	0
ARHOMBI_DN18091_c0_g1_i1_1	287520	281140	335850	371710	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN11853_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1272000
ARUBRA_DN898_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	622570	649070	0

ARHOMBI_DN5055_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	531600	345170	388360
ARUBRA_DN21162_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	737810	252040	272540
ARUBRA_DN19451_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	594730	666510
ARHOMBI_DN17114_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	537780	345790	377530
ARHOMBI_DN4946_c0_g1_i2_4	141320	219610	213130	0	256290	0	0	0	0	0	0	0	0	235960	193040
ARUBRA_DN9563_c0_g1_i1_2	0	0	315470	138920	0	0	0	242570	0	0	0	0	0	194800	367430
ARUBRA_DN3083_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	1254000	0
ARUBRA_DN10864_c0_g1_i1_2	0	39541	35170	0	0	0	1175900	0	0	0	0	0	0	0	0
ARHOMBI_DN8832_c0_g1_i1_6	0	0	236790	0	0	0	78842	0	0	0	0	0	0	278540	655950
ARHOMBI_DN16126_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	127260	535730	586670
ARUBRA_DN11418_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	536660	712650	0
ARUBRA_DN711_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	308640	580180	356630
ARUBRA_DN23248_c0_g1_i1_5	0	0	469470	775950	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN11424_c0_g1_i1_1	189180	217960	121800	176760	0	0	0	536380	0	0	0	0	0	0	0
ARUBRA_DN13078_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	568660	670690	0
ARUBRA_DN22748_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	888510	132810	216830
ARUBRA_DN19446_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	442910	428170	366450
ARHOMBI_DN25338_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1236400
ARUBRA_DN1375_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	744530	0	491090
ARHOMBI_DN5366_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	0	0	0	383710	0	851830
ARUBRA_DN26151_c0_g1_i1_1	0	336230	312940	584610	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN16439_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	629040	604070
ARHOMBI_DN17772_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	474740	341280	415900
ARHOMBI_DN3967_c0_g1_i1_1	259080	63307	81566	755910	0	71704	0	0	0	0	0	0	0	0	0
ARUBRA_DN18178_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	315340	540220	375950
ARUBRA_DN4925_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	479360	746330	0
ARUBRA_DN14063_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	985340	238840	0

ARHOMBI_DN2499_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1223900
ARUBRA_DN2486_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	239800	983900	0
ARUBRA_DN9169_c0_g1_i1_1	0	0	0	0	0	0	115820	0	0	0	0	0	383640	334730	386130
ARHOMBI_DN2036_c0_g2_i1_1	380260	342230	299500	198100	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN20749_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	330060	438230	447190
ARHOMBI_DN13970_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	614310	599610	0
ARHOMBI_DN16110_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	588720	0	623760
ARUBRA_DN16649_c0_g1_i1_5	67263	0	0	0	0	0	0	0	0	0	0	0	361250	323180	458160
ARHOMBI_DN26305_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	525730	0	672720
ARUBRA_DN7710_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	429420	362100	403330
ARUBRA_DN9775_c0_g1_i1_2	0	0	0	78591	0	0	0	0	0	0	0	0	0	0	1115500
ARUBRA_DN9988_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	235810	229800	722870
ARHOMBI_DN18064_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	424000	351210	412820
ARHOMBI_DN4801_c0_g1_i1_1	0	0	0	0	192710	0	124940	0	0	0	0	0	268910	305400	295780
ARUBRA_DN5397_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	414630	384060	388120
ARHOMBI_DN3803_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	514230	669750
ARUBRA_DN4646_c0_g1_i1_4	166570	58513	621910	143280	189840	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN16654_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	472290	354720	352690
ARUBRA_DN20972_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	947470	231020	0
ARHOMBI_DN23602_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	1178400	0	0	0	0
ARUBRA_DN20900_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	343460	828880	0
ARUBRA_DN17183_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	275990	577270	316800
ARHOMBI_DN3229_c0_g1_i1_4	111230	131080	518180	0	0	0	0	0	0	0	0	407830	0	0	0
ARUBRA_DN12858_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	347890	473030	342940
ARUBRA_DN20_c0_g1_i1_4	131750	204110	45246	179820	243910	0	261020	0	0	0	0	0	0	96384	0
ARUBRA_DN2891_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	596300	563160
ARHOMBI_DN4641_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	1155400	0

ARUBRA_DN5439_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	453270	0	699690
ARUBRA_DN2788_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	470590	336340	344100
ARHOMBI_DN24746_c0_g1_i1_1	243980	376490	0	0	0	0	0	529120	0	0	0	0	0	0	0
ARUBRA_DN12422_c0_g1_i1_2	206940	0	387920	0	0	553830	0	0	0	0	0	0	0	0	0
ARUBRA_DN19709_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	761600	0	383110
ARUBRA_DN4950_c1_g1_i1_4	182430	175900	0	215690	251260	0	0	317860	0	0	0	0	0	0	0
ARHOMBI_DN8627_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	749880	0	387220
ARHOMBI_DN8139_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	381060	341300	413580
ARUBRA_DN9097_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	359680	369550	406090
ARUBRA_DN23250_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	466430	194810	467510
ARHOMBI_DN13828_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	344580	328470	454960
ARHOMBI_DN16373_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	386110	390950	350580
ARUBRA_DN12629_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	380170	330180	413580
ARHOMBI_DN6215_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	0	0	0	354570	245450	519680
ARUBRA_DN4706_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	1119400	0	0	0	0
ARUBRA_DN6348_c0_g1_i1_2	217010	592680	0	61818	0	247180	0	0	0	0	0	0	0	0	0
ARHOMBI_DN4431_c0_g3_i1_1	332750	528550	208080	45388	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN2426_c0_g1_i1_5	298350	301900	295520	209120	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN2608_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	507150	0	597770
ARHOMBI_DN5630_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	184480	919190
ARHOMBI_DN2188_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	347020	156990	599230
ARUBRA_DN16537_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	451850	113220	536160
ARHOMBI_DN6250_c0_g2_i3_5	0	0	0	325510	0	0	0	239290	532740	0	0	0	0	0	0
ARUBRA_DN12906_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	351370	341940	403310
ARHOMBI_DN15675_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1095200	0	0
ARHOMBI_DN20830_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	250160	841790
ARHOMBI_DN6132_c0_g5_i1_3	239430	291250	309030	251450	0	0	0	0	0	0	0	0	0	0	0

ARHOMBI_DN13938_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	273850	365840	450150
ARHOMBI_DN343_c0_g2_i1_6	282590	100900	174360	109700	0	0	0	0	0	0	0	0	192120	0	228120
ARHOMBI_DN20204_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	352170	341390	394010
ARHOMBI_DN5653_c0_g1_i1_4	0	0	0	217430	0	0	0	396530	473530	0	0	0	0	0	0
ARUBRA_DN9043_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	519020	567910
ARUBRA_DN8452_c0_g1_i1_1	0	0	0	0	179910	0	151470	0	339980	0	412110	0	0	0	0
ARHOMBI_DN5207_c0_g1_i1_5	397020	0	0	337440	0	0	0	0	0	0	0	0	0	162200	186550
ARHOMBI_DN5473_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	132270	140340	810460
ARHOMBI_DN15547_c1_g1_i1_2	391560	235020	380780	0	0	72034	0	0	0	0	0	0	0	0	0
ARUBRA_DN21709_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	203100	616410	256500
ARUBRA_DN7051_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	506350	286980	280620
ARUBRA_DN25464_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	379840	353340	334710
ARHOMBI_DN4589_c0_g1_i1_6	112710	150850	0	158860	0	0	0	168430	473540	0	0	0	0	0	0
ARUBRA_DN931_c0_g1_i1_3	234250	331630	257140	241260	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN10963_c0_g1_i1_2	213110	184000	308320	355740	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN14101_c0_g1_i1_6	96499	0	0	0	0	88352	0	0	0	0	0	0	230670	360950	284140
ARHOMBI_DN18821_c0_g1_i1_3	0	94388	0	0	0	0	153270	0	0	0	0	0	109760	138150	561310
ARHOMBI_DN14763_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	851780	201400	0
ARUBRA_DN7233_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	112410	0	937680
ARUBRA_DN3582_c0_g2_i1_3	0	105780	0	176230	0	0	0	0	0	0	0	0	388810	377980	0
ARUBRA_DN3740_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	1047700	0	0
ARUBRA_DN2116_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	342230	336730	368210
ARHOMBI_DN6367_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	1046900	0	0
ARUBRA_DN9714_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	705530	341230	0
ARHOMBI_DN5629_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	267560	514780	264090
ARUBRA_DN17225_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	76544	0	965980
ARUBRA_DN5760_c0_g1_i1_1	0	0	0	70795	0	0	0	0	675630	0	0	0	134730	0	160750

ARHOMBI_DN13303_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	556450	246170	237700
ARHOMBI_DN44_c0_g1_i1_5	0	0	0	0	0	0	0	0	183290	0	0	0	437890	415200	0
ARUBRA_DN2012_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	392650	171380	467900
ARHOMBI_DN18373_c0_g1_i1_1	307460	218860	116050	0	180990	0	205110	0	0	0	0	0	0	0	0
ARUBRA_DN22899_c0_g1_i1_4	144480	119960	150940	63277	0	0	0	0	0	0	0	0	239590	0	309430
ARUBRA_DN19779_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	851410	175810
ARHOMBI_DN2168_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	1027100	0
ARHOMBI_DN18268_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	620400	405490
ARUBRA_DN20895_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	438120	400020	183800
ARHOMBI_DN9816_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	546470	475270
ARUBRA_DN6711_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	888490	0	132970
ARUBRA_DN1256_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	343550	356180	319840
ARHOMBI_DN4768_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	322140	331170	364460
ARUBRA_DN1822_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	142810	234030	639190
ARUBRA_DN2382_c0_g1_i1_2	0	0	0	0	0	0	138090	0	475680	0	0	0	188180	0	212300
ARUBRA_DN6119_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	372840	287700	350890
ARUBRA_DN19079_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	279920	731010
ARUBRA_DN14154_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	280770	424820	298020
ARUBRA_DN6181_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	460470	542890
ARHOMBI_DN5536_c0_g1_i1_1	0	486340	262010	0	0	0	0	0	251830	0	0	0	0	0	0
ARHOMBI_DN25582_c0_g1_i1_3	249510	286440	335080	0	0	0	0	0	0	0	0	0	0	128260	0
ARUBRA_DN1176_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	546120	0	453010
ARUBRA_DN766_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	320520	678600
ARHOMBI_DN20645_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	468080	530820	0
ARHOMBI_DN985_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	359470	271010	366650
ARUBRA_DN14493_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	519340	0	476500
ARHOMBI_DN18281_c0_g1_i1_5	0	0	0	0	0	192780	0	0	388820	414230	0	0	0	0	0

ARHOMBI_DN18082_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	477750	119370	396100
ARUBRA_DN3448_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	852040	140450
ARHOMBI_DN19564_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	352240	637850	0
ARHOMBI_DN18202_c0_g1_i1_6	321270	388940	278130	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN4562_c0_g1_i1_3	93293	170350	97123	323540	0	0	0	0	302860	0	0	0	0	0	0
ARUBRA_DN756_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	172940	376530	436670
ARHOMBI_DN5795_c0_g1_i1_6	232820	172510	188890	390860	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN18766_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	387660	596060	0
ARHOMBI_DN11368_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	789400	0	192360
ARHOMBI_DN19194_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	396400	582450	0
ARUBRA_DN21311_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	296260	344040	337900
ARUBRA_DN19687_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	546870	0	430090
ARHOMBI_DN1072_c0_g1_i1_2	295660	399600	0	280240	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN4606_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	327970	304080	341270
ARHOMBI_DN3865_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	730690	240080	0
ARHOMBI_DN3210_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	202300	590700	177080
ARHOMBI_DN127_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	242690	511250	212190
ARUBRA_DN6664_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	848380	116860	0
ARUBRA_DN17807_c0_g1_i1_6	114970	132930	713190	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN26518_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	196150	360830	403020
ARHOMBI_DN26272_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	90345	869000
ARUBRA_DN24367_c0_g1_i1_3	292230	296950	0	0	0	0	0	0	0	0	0	0	365870	0	0
ARHOMBI_DN10852_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	765290	187390
ARUBRA_DN17980_c0_g1_i1_5	57364	0	0	0	182710	0	492270	0	217160	0	0	0	0	0	0
ARHOMBI_DN178_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	251050	223140	474380
ARUBRA_DN3098_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	523540	424330
ARHOMBI_DN8417_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	307030	298470	341620

ARUBRA_DN16531_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	222530	321190	400060
ARUBRA_DN201_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	253720	322170	367300
ARUBRA_DN4976_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	942100
ARUBRA_DN22472_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	320930	335550	284490
ARHOMBI_DN22711_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	939830
ARHOMBI_DN5461_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	0	0	0	763180	0	175510
ARUBRA_DN1871_c0_g1_i1_5	135400	116980	100340	0	0	0	0	0	0	0	0	0	585860	0	0
ARHOMBI_DN11140_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	245750	297540	394690
ARUBRA_DN23048_c0_g1_i1_5	134050	107100	493770	0	0	202810	0	0	0	0	0	0	0	0	0
ARHOMBI_DN2451_c0_g1_i1_1	0	0	0	0	0	0	143450	0	0	0	0	0	785840	0	0
ARUBRA_DN2562_c0_g2_i2_3	353560	404430	0	0	0	0	0	0	0	0	0	0	168860	0	0
ARHOMBI_DN20377_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	926790	0	0
ARUBRA_DN15849_c0_g1_i1_3	0	0	0	78871	0	0	0	0	0	0	0	0	844760	0	0
ARUBRA_DN24185_c0_g1_i1_2	0	315900	189030	0	0	0	416430	0	0	0	0	0	0	0	0
ARUBRA_DN3137_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	432780	487870
ARUBRA_DN18794_c0_g1_i1_1	0	24927	0	0	0	0	102510	170440	542380	0	0	0	79268	0	0
ARHOMBI_DN16770_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	384820	0	529920
ARUBRA_DN8214_c1_g1_i1_2	130380	142980	234200	106610	0	0	0	0	206000	0	0	0	0	89761	0
ARHOMBI_DN5351_c0_g3_i2_2	0	0	0	0	0	0	0	234650	0	0	0	0	312340	361920	0
ARUBRA_DN26670_c0_g1_i1_1	76581	99847	0	49478	0	0	0	0	682070	0	0	0	0	0	0
ARHOMBI_DN14110_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	408720	495600
ARHOMBI_DN3010_c0_g2_i1_1	0	0	264470	0	294880	0	343370	0	0	0	0	0	0	0	0
ARUBRA_DN14051_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	527600	373540
ARUBRA_DN20086_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	376140	524650
ARUBRA_DN11076_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	280750	363540	255790
ARHOMBI_DN25990_c0_g1_i1_4	0	687220	0	0	0	0	209570	0	0	0	0	0	0	0	0
ARHOMBI_DN2521_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	643240	0	253000

ARUBRA_DN3144_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	271080	260420	364060
ARUBRA_DN524_c0_g2_i1_3	0	0	122520	0	177400	0	0	0	0	0	0	0	281250	0	313320
ARUBRA_DN4339_c0_g1_i2_1	296130	0	330380	0	0	0	265370	0	0	0	0	0	0	0	0
ARHOMBI_DN2257_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	575940	315860
ARUBRA_DN17897_c0_g1_i1_5	191710	152110	0	0	0	105670	0	0	0	0	0	0	336440	0	104810
ARHOMBI_DN2123_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	501900	387270	0
ARUBRA_DN11421_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	306670	256410	325250
ARHOMBI_DN13369_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	888170	0	0
ARUBRA_DN10411_c0_g1_i1_2	75200	0	0	0	0	0	0	0	0	0	0	0	0	357480	452530
ARHOMBI_DN5006_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	883460
ARHOMBI_DN17209_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	402850	480230
ARUBRA_DN6201_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	496200	0	386600
ARHOMBI_DN4317_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	218740	373100	290950
ARHOMBI_DN5264_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	0	0	0	198640	374010	307880
ARUBRA_DN3956_c0_g2_i2_6	0	0	0	0	0	0	0	0	0	0	0	0	214620	0	662640
ARUBRA_DN7892_c0_g1_i1_4	0	65129	65759	0	0	0	0	0	0	0	0	0	502640	0	243650
ARUBRA_DN5621_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	574030	0	298020
ARUBRA_DN6290_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	870920
ARUBRA_DN8437_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	564960	303960
ARHOMBI_DN2197_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	868280	0	0
ARUBRA_DN20773_c0_g1_i1_2	0	145770	63100	0	351240	0	0	307890	0	0	0	0	0	0	0
ARUBRA_DN19652_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	866150
ARUBRA_DN23301_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	350520	332220	181640
ARHOMBI_DN6000_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	134880	727880
ARHOMBI_DN27227_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	240660	299330	321980
ARHOMBI_DN3035_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	304010	272680	282500
ARUBRA_DN7465_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	230580	325710	302590

ARHOMBI_DN25461_c0_g1_i1_3	0	250420	168240	252050	0	0	0	183950	0	0	0	0	0	0	0
ARUBRA_DN23449_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	295450	296480	261100
ARUBRA_DN4751_c0_g1_i2_6	0	157780	0	691110	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN23037_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	848530	0
ARHOMBI_DN17541_c0_g1_i1_1	79750	59592	0	0	0	0	0	0	0	0	0	0	332970	0	375990
ARUBRA_DN10528_c0_g1_i1_4	66949	74420	118680	0	368070	0	0	218860	0	0	0	0	0	0	0
ARUBRA_DN13908_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	410950	0	435980
ARHOMBI_DN13282_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	310820	327150	207970
ARHOMBI_DN3944_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	0	0	0	0	339320	505110
ARHOMBI_DN19974_c0_g1_i1_4	241900	385490	216050	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN7017_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	842140	0	0
ARUBRA_DN1910_c0_g1_i1_5	0	0	0	0	310530	0	341590	0	0	0	0	0	91661	98114	0
ARUBRA_DN4277_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	290890	248490	300690
ARUBRA_DN22918_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	840040
ARUBRA_DN9150_c0_g1_i1_5	120940	119410	0	157080	0	0	166680	0	0	0	0	164840	0	0	106080
ARHOMBI_DN6685_c1_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	394820	440190
ARHOMBI_DN26281_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	393590	0	440710
ARUBRA_DN3358_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	0	0	0	0	501640	330620
ARHOMBI_DN4457_c0_g1_i1_1	0	30200	0	0	0	0	0	0	0	0	0	0	202970	311060	286200
ARHOMBI_DN10001_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	363340	231730	227370
ARHOMBI_DN13618_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	414300	408120
ARHOMBI_DN3625_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	269870	257090	294390
ARHOMBI_DN23530_c0_g1_i1_1	118340	188000	101390	175260	0	75964	0	161330	0	0	0	0	0	0	0
ARUBRA_DN21885_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	819570	0	0
ARHOMBI_DN4759_c0_g2_i1_2	0	0	141770	136530	0	0	0	0	540830	0	0	0	0	0	0
ARHOMBI_DN995_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	577710	237030	0
ARHOMBI_DN19127_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	371660	440370

ARUBRA_DN19640_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	297410	514040
ARUBRA_DN16258_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	811010
ARUBRA_DN19843_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	224840	249640	335830
ARHOMBI_DN4707_c0_g1_i1_6	0	0	0	0	170500	0	0	0	0	0	0	0	144740	340720	153540
ARUBRA_DN6269_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	334700	473670	0
ARUBRA_DN14413_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	611300	0	196420
ARUBRA_DN23541_c0_g1_i1_3	71521	243910	146790	95682	0	0	0	0	248440	0	0	0	0	0	0
ARHOMBI_DN21586_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	256870	0	548920
ARUBRA_DN20454_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	282040	0	520450
ARUBRA_DN25494_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	240160	267950	291580
ARUBRA_DN1726_c0_g1_i1_1	170960	139540	169650	104840	211810	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN4369_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	498750	148540	148910
ARHOMBI_DN7832_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	292960	86170	413880
ARHOMBI_DN3921_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	357570	434200
ARUBRA_DN729_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	366610	0	423170
ARUBRA_DN17182_c0_g1_i1_3	86052	143280	187970	0	0	370720	0	0	0	0	0	0	0	0	0
ARUBRA_DN5225_c0_g1_i1_3	253730	293330	240190	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN26642_c0_g1_i1_3	79517	107670	0	0	0	0	0	0	0	0	0	0	121430	0	477620
ARHOMBI_DN6091_c0_g1_i3_6	0	0	0	0	0	0	0	0	0	0	0	0	261180	236300	288470
ARHOMBI_DN2397_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	492080	289380
ARUBRA_DN19230_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	346960	347170	87218
ARUBRA_DN10511_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	238430	271680	270360
ARHOMBI_DN18648_c0_g1_i1_2	94116	105450	0	0	0	0	0	0	0	0	0	0	0	580800	0
ARHOMBI_DN20035_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	392530	385540	0
ARHOMBI_DN22203_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	239950	298310	239300
ARUBRA_DN8245_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	612690	0	164880
ARUBRA_DN18674_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	249470	218910	308930

ARUBRA_DN1052_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	776700
ARUBRA_DN4497_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	217120	270490	287250
ARHOMBI_DN23074_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	361530	0	412980
ARUBRA_DN17867_c0_g1_i1_4	170010	114060	214650	150960	0	0	0	0	0	0	0	0	0	124130	0
ARUBRA_DN26207_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	277010	495050	0
ARUBRA_DN993_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	212830	185360	373030
ARUBRA_DN5001_c0_g1_i1_4	332500	0	438220	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN16126_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	770450
ARUBRA_DN18434_c0_g1_i1_5	139250	190290	0	0	234660	0	0	206000	0	0	0	0	0	0	0
ARHOMBI_DN8608_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	766770	0
ARUBRA_DN21219_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	389680	376880	0
ARUBRA_DN10906_c0_g1_i1_1	0	0	0	0	0	0	0	0	535340	0	0	0	0	98649	131450
ARUBRA_DN24391_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	378200	0	386360
ARHOMBI_DN6909_c0_g1_i1_1	55798	49322	20862	0	635430	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN24666_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	336330	421480
ARUBRA_DN6630_c0_g1_i1_2	155480	127520	49261	26198	0	0	0	0	0	0	0	0	0	165450	232870
ARUBRA_DN9370_c0_g1_i1_1	79116	0	0	219720	0	0	0	456740	0	0	0	0	0	0	0
ARUBRA_DN10905_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	265660	0	489620
ARHOMBI_DN13448_c0_g1_i1_5	62654	0	76204	0	0	0	0	0	613740	0	0	0	0	0	0
ARUBRA_DN20978_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	339890	412100
ARUBRA_DN6384_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	507060	244870	0
ARHOMBI_DN981_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	234260	515840
ARUBRA_DN22585_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	223460	241100	285300
ARHOMBI_DN4343_c0_g1_i1_6	0	0	0	0	0	0	218670	275500	0	0	0	0	0	0	255370
ARHOMBI_DN796_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	295410	0	453670
ARUBRA_DN3285_c0_g1_i1_2	0	0	0	0	0	0	0	246720	0	0	0	0	0	0	502150
ARUBRA_DN5446_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	236550	511050

ARUBRA_DN10803_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	747080	0
ARUBRA_DN16402_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	193440	248280	302820
ARUBRA_DN19030_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	205180	248160	289830
ARHOMBI_DN6155_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	742790	0	0
ARUBRA_DN13110_c0_g1_i1_1	0	0	0	0	368310	0	374430	0	0	0	0	0	0	0	0
ARUBRA_DN25449_c0_g1_i1_2	240970	244530	255220	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN4728_c0_g3_i1_1	85222	0	121190	113600	0	0	0	0	240580	0	0	0	0	0	179100
ARHOMBI_DN6142_c0_g1_i3_4	0	0	0	0	0	0	0	0	0	0	0	0	144690	591150	0
ARHOMBI_DN5011_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	282550	453220	0
ARHOMBI_DN7836_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	723850
ARHOMBI_DN4465_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	342700	376680
ARHOMBI_DN2932_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	449810	268570
ARHOMBI_DN6286_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	238580	193680	286110
ARUBRA_DN17025_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	374470	337540
ARHOMBI_DN7489_c1_g1_i1_4	164840	163620	70645	41735	269070	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN13369_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	214330	186450	304630
ARUBRA_DN18574_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	168280	0	535740
ARUBRA_DN21886_c0_g1_i1_1	69578	117680	0	58994	0	0	0	220650	0	0	0	0	236060	0	0
ARHOMBI_DN17203_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	235670	214040	253210
ARHOMBI_DN13122_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	345690	0	357090
ARHOMBI_DN25341_c0_g1_i1_1	216320	216790	122850	143840	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN3340_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	536410	163230
ARUBRA_DN3419_c0_g1_i1_6	238830	236090	147490	75571	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN8889_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	324000	372190
ARHOMBI_DN4948_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	361060	333620	0
ARUBRA_DN23749_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	410520	0	283930
ARUBRA_DN23540_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	335680	358530

ARHOMBI_DN658_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	326140	0	368070
ARUBRA_DN1712_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	287570	0	403750
ARUBRA_DN9464_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	690180	0
ARUBRA_DN8289_c0_g1_i1_1	258880	187280	114390	129360	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN11041_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	369780	319670
ARHOMBI_DN8091_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	221630	218970	245250
ARHOMBI_DN4244_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	0	0	0	0	436640	248010
ARUBRA_DN313_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	165300	519300
ARUBRA_DN707_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	309110	0	375210
ARHOMBI_DN3837_c0_g1_i1_6	0	0	680580	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN4588_c0_g1_i2_1	0	0	0	0	0	0	0	0	0	0	0	0	0	163560	514320
ARHOMBI_DN6158_c0_g1_i1_6	0	0	113890	0	0	562330	0	0	0	0	0	0	0	0	0
ARHOMBI_DN6709_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	331010	0	344820
ARHOMBI_DN12465_c0_g1_i1_1	139140	77529	80717	89921	0	0	286060	0	0	0	0	0	0	0	0
ARHOMBI_DN26923_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	307450	0	365410
ARUBRA_DN1422_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	312670	359330
ARHOMBI_DN23444_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	671170
ARUBRA_DN2399_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	301740	0	0	0	0	367640
ARUBRA_DN2263_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	668920
ARHOMBI_DN15914_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	324510	174540	169700
ARUBRA_DN1557_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	243240	200140	217040
ARUBRA_DN4786_c0_g1_i1_2	0	0	0	0	209810	0	0	449410	0	0	0	0	0	0	0
ARHOMBI_DN18534_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	183230	253700	221810
ARHOMBI_DN10516_c0_g1_i1_6	186760	166780	0	0	0	0	0	0	0	0	0	0	304810	0	0
ARUBRA_DN178_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	289250	367400
ARUBRA_DN24618_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	365600	288560
ARUBRA_DN23959_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	445210	0	207590

ARUBRA_DN19174_c0_g1_i1_2	0	0	0	0	123750	0	0	0	0	0	0	0	0	528250	0
ARHOMBI_DN4479_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	640760	0	0
ARHOMBI_DN3958_c0_g1_i1_6	97297	126370	79866	37532	0	0	0	0	0	0	0	0	146110	152130	0
ARHOMBI_DN2738_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	638520	0
ARUBRA_DN1466_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	112190	384530	141690
ARHOMBI_DN3523_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	638350	0
ARHOMBI_DN1869_c0_g2_i1_5	137960	217950	205900	73253	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN22416_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	341900	292670
ARUBRA_DN446_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	111260	244240	278200
ARUBRA_DN1177_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	191670	156650	284140
ARUBRA_DN22100_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	629850	0	0
ARHOMBI_DN9092_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	304320	325200
ARHOMBI_DN5351_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	310640	0	317960
ARUBRA_DN3055_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	0	0	0	124910	0	503480
ARHOMBI_DN21638_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	166800	223140	236120
ARUBRA_DN4234_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	114940	339370	171600
ARUBRA_DN2493_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	185690	241010	197000
ARUBRA_DN7662_c0_g1_i1_2	0	181240	70141	0	0	0	0	0	0	0	0	0	123340	125750	122760
ARUBRA_DN12348_c0_g1_i1_6	0	0	0	0	0	42130	0	211660	0	0	0	0	0	0	367750
ARHOMBI_DN3285_c0_g2_i1_4	0	0	621160	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN8957_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	182150	163630	275330
ARHOMBI_DN21971_c0_g1_i1_1	0	0	0	0	0	0	619300	0	0	0	0	0	0	0	0
ARUBRA_DN13989_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	291550	0	327270
ARUBRA_DN26201_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	288250	330140	0
ARHOMBI_DN16098_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	229630	284510	102580
ARHOMBI_DN2295_c0_g1_i1_1	171780	172410	177930	0	0	0	0	0	0	0	0	0	0	0	92339
ARHOMBI_DN8630_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	336460	0	274930

ARUBRA_DN15491_c0_g1_i1_1	0	0	0	0	0	0	0	0	212540	0	0	0	136570	126840	131850
ARUBRA_DN7176_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	173570	231990	198420
ARUBRA_DN22998_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	603940
ARHOMBI_DN1819_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	294150	0	309560
ARUBRA_DN1769_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	239090	0	364310
ARHOMBI_DN7578_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	173640	222510	203170
ARHOMBI_DN4440_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	310810	287040
ARUBRA_DN16297_c0_g1_i1_4	88269	0	97487	123500	0	0	0	0	286600	0	0	0	0	0	0
ARUBRA_DN7697_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	189140	181520	225190
ARUBRA_DN19516_c0_g1_i1_2	0	0	0	0	0	0	340330	254610	0	0	0	0	0	0	0
ARUBRA_DN9248_c0_g1_i1_4	202410	190030	198820	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN26238_c0_g1_i1_4	237140	164360	93415	94931	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN1217_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	589600	0	0
ARUBRA_DN22060_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	125070	210250	253340
ARHOMBI_DN3796_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	218770	0	367370
ARUBRA_DN3884_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	585650	0	0
ARHOMBI_DN11238_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	297000	287970
ARUBRA_DN20512_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	273840	309720
ARUBRA_DN2494_c0_g1_i1_5	0	0	0	0	142340	0	187880	252480	0	0	0	0	0	0	0
ARHOMBI_DN25808_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	133920	184780	263480
ARHOMBI_DN5409_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	177490	186370	218230
ARUBRA_DN4725_c0_g1_i1_2	65219	214580	68366	59001	0	0	172850	0	0	0	0	0	0	0	0
ARUBRA_DN19472_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	305000	0	273560
ARUBRA_DN9681_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	578160
ARUBRA_DN21358_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	238960	185950	152130
ARUBRA_DN2192_c0_g1_i1_5	161450	124890	141320	149010	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN14031_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	399410	176390

ARUBRA_DN22638_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	238360	337190	0
ARUBRA_DN3929_c0_g1_i2_5	0	0	0	0	0	0	0	0	0	0	0	0	262600	0	312030
ARUBRA_DN3241_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	397570	175260	0
ARUBRA_DN2358_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	571400	0	0
ARUBRA_DN24043_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	571100
ARHOMBI_DN24632_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	264570	305130
ARHOMBI_DN26919_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	567410	0	0	0	0	0
ARUBRA_DN23841_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	170770	0	395130
ARUBRA_DN19491_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	267560	295360
ARUBRA_DN22396_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	184040	377590	0
ARHOMBI_DN19578_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	362710	193430
ARHOMBI_DN3163_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	373890	180370	0
ARUBRA_DN19450_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	553660
ARUBRA_DN130_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	370040	182410	0
ARHOMBI_DN4296_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	446970	104990	0
ARUBRA_DN6440_c0_g1_i1_4	0	0	361690	188210	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN6362_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	281910	267820
ARHOMBI_DN23114_c0_g1_i1_1	0	0	0	0	0	0	549480	0	0	0	0	0	0	0	0
ARHOMBI_DN4923_c0_g1_i1_6	0	0	0	48086	0	0	0	0	500470	0	0	0	0	0	0
ARUBRA_DN6647_c0_g1_i1_3	0	0	0	0	0	0	133650	0	178280	0	0	0	126410	107980	0
ARHOMBI_DN5696_c0_g1_i1_6	0	0	0	545040	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN8888_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	271680	271820
ARHOMBI_DN5174_c0_g2_i1_1	187290	183370	172610	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN16605_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	179420	169340	194030
ARHOMBI_DN18922_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	186810	189340	164530
ARHOMBI_DN5270_c0_g1_i1_5	0	0	0	0	0	98157	221780	0	0	0	0	0	0	220530	0
ARHOMBI_DN9484_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	107970	431290

ARHOMBI_DN498_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	158040	381100	0
ARHOMBI_DN1736_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	151540	382990
ARUBRA_DN171_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	163150	151850	217550
ARUBRA_DN23798_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	284730	247520	0
ARHOMBI_DN9171_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	531740
ARUBRA_DN3301_c0_g2_i1_5	0	531250	0	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN2204_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	190860	93540	244400
ARHOMBI_DN1709_c0_g2_i1_6	110710	135720	103870	177470	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN4715_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	525840	0
ARHOMBI_DN17044_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	210340	0	314400
ARHOMBI_DN6819_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	522450
ARHOMBI_DN5985_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	521510
ARUBRA_DN24121_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	282310	238600	0
ARUBRA_DN4657_c0_g1_i1_6	185110	161800	0	169980	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN290_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	305960	209940
ARHOMBI_DN5862_c0_g1_i1_2	0	0	0	513990	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN6231_c0_g3_i5_2	0	0	0	0	0	0	0	0	209450	0	0	0	0	0	303990
ARUBRA_DN5145_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	214970	296570
ARUBRA_DN20610_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	233490	275490
ARHOMBI_DN19734_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	151200	178360	178970
ARHOMBI_DN13808_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	329420	175340
ARUBRA_DN19459_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	374810	129800
ARHOMBI_DN4450_c0_g1_i1_5	140550	0	165030	197350	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN2002_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	158600	160170	183360
ARHOMBI_DN22399_c0_g1_i1_2	0	0	0	0	246910	0	251600	0	0	0	0	0	0	0	0
ARHOMBI_DN16397_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	252760	243530
ARHOMBI_DN3020_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	317430	178440	0

ARHOMBI_DN6884_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	230900	115260	149550
ARUBRA_DN21439_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	283360	0	212170	0	0	0
ARHOMBI_DN5298_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	172750	156160	166510
ARHOMBI_DN6134_c0_g1_i2_6	0	0	0	0	0	0	0	0	0	0	491340	0	0	0	0
ARHOMBI_DN21703_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	179050	178540	133130
ARHOMBI_DN1691_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	207140	0	281600
ARHOMBI_DN20074_c0_g1_i1_1	44180	32597	0	40541	0	0	0	0	0	0	0	0	0	0	370030
ARUBRA_DN16643_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	486660	0
ARHOMBI_DN16129_c0_g1_i1_4	0	0	0	0	0	114280	0	272340	0	0	0	0	0	0	99699
ARUBRA_DN4512_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	486240	0
ARHOMBI_DN8916_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	229750	256070	0
ARHOMBI_DN12802_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	483040	0	0
ARUBRA_DN14943_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	235650	246510
ARHOMBI_DN21499_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	247490	234650
ARHOMBI_DN16804_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	481900	0
ARHOMBI_DN3081_c0_g1_i2_3	0	0	0	0	0	0	0	0	0	0	0	0	80076	184420	212100
ARHOMBI_DN26634_c0_g1_i1_6	0	89717	0	0	178850	0	0	206240	0	0	0	0	0	0	0
ARUBRA_DN16199_c0_g1_i1_3	165380	112960	51915	0	0	0	0	0	142990	0	0	0	0	0	0
ARHOMBI_DN10954_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	472300	0
ARHOMBI_DN8652_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	181360	290920
ARUBRA_DN26687_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	221920	249210	0
ARHOMBI_DN3151_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	203580	264750	0
ARHOMBI_DN12758_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	132870	148380	184000
ARUBRA_DN6423_c0_g1_i1_6	0	169780	291160	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN11367_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	180500	0	278310
ARHOMBI_DN22357_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	458160
ARUBRA_DN20780_c0_g1_i1_5	0	0	98259	84269	0	0	0	174800	0	0	0	0	99975	0	0

ARHOMBI_DN17128_c0_g1_i1_2	0	72645	40353	26871	0	0	0	0	315880	0	0	0	0	0	0
ARHOMBI_DN21148_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	454230
ARHOMBI_DN4969_c0_g1_i1_6	37649	37093	14588	0	245680	0	118570	0	0	0	0	0	0	0	0
ARHOMBI_DN2477_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	179360	273300	0
ARUBRA_DN2574_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	450670	0	0
ARHOMBI_DN1345_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	228400	221870	0
ARUBRA_DN7816_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	328200	121750
ARHOMBI_DN4238_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	449880	0	0
ARUBRA_DN17859_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	222650	223830
ARHOMBI_DN6130_c1_g1_i2_6	0	0	0	0	0	0	0	0	0	0	0	0	117930	0	328110
ARUBRA_DN15205_c0_g1_i1_1	138450	166260	140830	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN17787_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	152550	0	292820
ARHOMBI_DN21125_c0_g1_i1_2	180590	0	203320	61294	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN22796_c0_g1_i1_1	355720	0	0	0	0	0	88801	0	0	0	0	0	0	0	0
ARHOMBI_DN2978_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	200320	0	243750
ARHOMBI_DN8760_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	443660	0
ARUBRA_DN11549_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	443560	0	0
ARHOMBI_DN22363_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	291950	0	148500
ARUBRA_DN7615_c0_g1_i1_5	71921	86145	67212	50177	161450	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN10838_c0_g1_i1_3	111050	122700	129400	72777	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN1649_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	433040	0
ARHOMBI_DN20781_c0_g1_i1_6	163540	0	97311	0	0	0	0	0	171860	0	0	0	0	0	0
ARHOMBI_DN6024_c0_g1_i2_5	0	0	0	0	0	0	101510	0	0	0	0	0	0	0	330450
ARHOMBI_DN6092_c0_g3_i3_3	0	0	0	0	0	0	0	0	429270	0	0	0	0	0	0
ARUBRA_DN23408_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	108290	153260	167670
ARHOMBI_DN17360_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	205780	0	222620
ARUBRA_DN6106_c0_g1_i1_6	142620	0	85362	198960	0	0	0	0	0	0	0	0	0	0	0

ARUBRA_DN8839_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	426000	0	0
ARUBRA_DN5290_c0_g1_i1_5	0	0	195960	106510	0	0	0	0	0	0	0	0	123210	0	0
ARHOMBI_DN16684_c0_g1_i1_4	0	0	0	327230	0	0	0	0	0	0	0	0	0	98383	0
ARUBRA_DN16761_c0_g1_i1_6	0	225430	199810	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN18234_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	117530	137420	170010
ARUBRA_DN483_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	151170	103830	169170
ARHOMBI_DN20642_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	117850	178990	126440
ARHOMBI_DN1985_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	215210	205930
ARUBRA_DN4720_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	0	0	0	0	166560	253110
ARHOMBI_DN8466_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	419140	0
ARUBRA_DN26386_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	144070	273970
ARHOMBI_DN16500_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	197470	220110
ARUBRA_DN7170_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	99790	190760	126890
ARUBRA_DN828_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	417190
ARHOMBI_DN8693_c1_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	98401	150320	167960
ARHOMBI_DN19277_c0_g1_i1_4	82882	57157	91728	0	0	0	0	0	0	0	0	0	184590	0	0
ARUBRA_DN11258_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	136070	122420	157470
ARHOMBI_DN9241_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	158890	0	255700
ARHOMBI_DN2715_c0_g1_i1_5	86336	0	89653	0	0	0	0	0	0	0	0	0	0	0	230900
ARUBRA_DN18267_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	203370	203350
ARUBRA_DN17506_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	200900	205140
ARUBRA_DN5389_c0_g1_i1_3	0	51854	21097	57778	0	0	0	272940	0	0	0	0	0	0	0
ARHOMBI_DN3097_c0_g1_i2_1	0	0	0	403520	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN5867_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	207300	195400
ARUBRA_DN18169_c0_g1_i1_2	0	0	300580	100520	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN4178_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	208770	192240
ARUBRA_DN6773_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	169970	0	228180

ARHOMBI_DN20737_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	171080	225280
ARUBRA_DN1212_c0_g2_i1_5	115730	108160	113260	59120	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN22616_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	188060	0	208160
ARHOMBI_DN4651_c0_g1_i1_3	136810	0	174410	0	0	0	0	0	0	0	0	0	0	84275	0
ARUBRA_DN4817_c0_g1_i2_6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	394110
ARUBRA_DN5232_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	128940	120970	143720
ARUBRA_DN8160_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	143380	100620	149620
ARHOMBI_DN25761_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	188430	204210
ARUBRA_DN18459_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	392280	0	0
ARUBRA_DN23641_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	282360	109130
ARHOMBI_DN15083_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	179880	0	210740
ARHOMBI_DN5292_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	390440	0	0
ARUBRA_DN13177_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	188770	200360	0
ARUBRA_DN25572_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	118550	122770	147480
ARHOMBI_DN10905_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	388030
ARHOMBI_DN4521_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	386950	0
ARUBRA_DN16776_c0_g1_i1_3	177430	0	0	208430	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN3345_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	385540
ARHOMBI_DN3792_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	0	0	0	108190	274380	0
ARHOMBI_DN2492_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	185260	0	195640
ARHOMBI_DN17916_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	198280	0	181980
ARUBRA_DN23363_c0_g1_i1_1	0	0	0	0	0	0	214060	0	164870	0	0	0	0	0	0
ARUBRA_DN6829_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	188820	0	189230
ARUBRA_DN14638_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	109310	120480	148100
ARUBRA_DN20092_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	104070	171590	101620
ARHOMBI_DN4417_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	189730	186240	0
ARHOMBI_DN22894_c0_g1_i1_5	164470	210920	0	0	0	0	0	0	0	0	0	0	0	0	0

ARUBRA_DN7549_c0_g1_i1_1	0	71311	103020	77693	122860	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN3368_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	185770	188910
ARUBRA_DN1922_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	374270	0
ARHOMBI_DN7605_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	187710	185770	0
ARUBRA_DN7746_c0_g1_i1_5	131390	122200	86392	32886	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN23775_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	129720	114410	127870
ARUBRA_DN22204_c0_g1_i1_5	0	0	18710	0	0	0	0	0	0	0	0	0	353130	0	0
ARHOMBI_DN16579_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	193190	175320
ARUBRA_DN23978_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	117240	109960	140380
ARUBRA_DN293_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	121080	154750	90138
ARHOMBI_DN14395_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	141330	0	224220
ARHOMBI_DN18669_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	182800	182740
ARUBRA_DN18022_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	191090	173400	0
ARUBRA_DN784_c0_g2_i1_6	0	44455	0	0	0	0	136010	0	0	0	0	0	180320	0	0
ARUBRA_DN7117_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	169590	190700
ARUBRA_DN13794_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	163390	0	196630
ARHOMBI_DN2834_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	150520	208980
ARUBRA_DN7201_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	358090
ARUBRA_DN20463_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	103420	113740	140810
ARUBRA_DN12786_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	357470	0
ARUBRA_DN4014_c0_g1_i1_1	97507	137320	0	121510	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN21_c0_g1_i1_6	0	92853	34526	0	0	0	0	0	0	0	0	0	0	0	228410
ARUBRA_DN14287_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	249980	105360
ARUBRA_DN3405_c0_g2_i1_2	0	0	0	354300	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN17003_c0_g1_i1_2	0	0	0	0	177520	0	176680	0	0	0	0	0	0	0	0
ARUBRA_DN1302_c0_g1_i1_2	0	0	0	53955	0	0	0	0	299840	0	0	0	0	0	0
ARHOMBI_DN20638_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	178580	174760

ARHOMBI_DN3957_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	351340	0
ARUBRA_DN19773_c0_g1_i1_2	132120	0	86104	132480	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN15739_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	148360	200790
ARUBRA_DN1164_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	345360	0
ARUBRA_DN12959_c0_g1_i1_2	0	0	0	101060	0	0	0	243000	0	0	0	0	0	0	0
ARHOMBI_DN11084_c0_g1_i1_6	0	0	0	0	0	0	0	0	141230	0	0	200470	0	0	0
ARUBRA_DN24628_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	143970	196680
ARHOMBI_DN5257_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	340200
ARUBRA_DN15806_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	136240	202660
ARHOMBI_DN21683_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	338510	0	0
ARHOMBI_DN7504_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	338460	0
ARUBRA_DN13027_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	104020	111240	122770
ARUBRA_DN22863_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	173760	163240	0
ARUBRA_DN19918_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	162410	174440	0
ARHOMBI_DN4736_c0_g1_i1_4	0	0	0	0	0	92113	0	0	0	0	0	0	244410	0	0
ARUBRA_DN24058_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	180840	0	155140
ARUBRA_DN4090_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	0	0	0	334370	0	0
ARUBRA_DN13119_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	111100	101510	121400
ARHOMBI_DN13499_c0_g1_i1_4	0	0	76627	0	0	128150	0	0	0	0	0	0	0	124900	0
ARUBRA_DN19563_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	99476	103370	125700
ARUBRA_DN14032_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	328280
ARHOMBI_DN5062_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	213130	0	113770
ARHOMBI_DN24773_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	135860	190880
ARHOMBI_DN4958_c0_g1_i1_3	133390	93069	100210	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN4594_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	326580	0
ARHOMBI_DN27276_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	107960	80910	135490
ARHOMBI_DN3256_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	324060

ARHOMBI_DN20557_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	150330	171600
ARHOMBI_DN186_c0_g2_i1_4	157080	75372	89309	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN19452_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	319830
ARUBRA_DN26125_c0_g1_i1_2	103370	107930	85763	21380	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN20462_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	144120	173210	0
ARUBRA_DN3192_c0_g1_i1_2	53242	0	40489	0	220890	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN5035_c0_g1_i1_2	127230	186500	0	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN1419_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	313340	0
ARHOMBI_DN19246_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	160290	151220	0
ARHOMBI_DN17996_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	141880	169070
ARUBRA_DN18443_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	180270	130660	0
ARHOMBI_DN20793_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	141820	0	168260
ARUBRA_DN6539_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	138450	171260
ARUBRA_DN2046_c0_g2_i1_2	0	0	0	0	0	0	0	0	176090	0	0	0	0	0	132880
ARUBRA_DN3646_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	92645	110280	105440
ARUBRA_DN6310_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	308290	0	0
ARUBRA_DN1384_c0_g1_i1_3	0	0	0	0	0	307480	0	0	0	0	0	0	0	0	0
ARHOMBI_DN14955_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	307270	0	0
ARHOMBI_DN49_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	187350	119670
ARUBRA_DN8685_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	303930
ARHOMBI_DN17696_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	153200	148340
ARUBRA_DN25420_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	127560	173060
ARHOMBI_DN24508_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	133190	166300
ARUBRA_DN13680_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	98578	0	199440
ARUBRA_DN4241_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	152680	144870	0
ARHOMBI_DN1471_c0_g1_i1_6	0	0	0	0	0	0	0	296570	0	0	0	0	0	0	0
ARHOMBI_DN7801_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	296210	0

ARHOMBI_DN4606_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	148640	0	147180
ARUBRA_DN17255_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	92946	0	202480
ARUBRA_DN17467_c0_g1_i1_6	0	0	77297	24761	0	0	0	0	0	0	0	0	0	0	192140
ARUBRA_DN17174_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	150680	141340	0
ARHOMBI_DN2723_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	97702	86711	106610
ARUBRA_DN13395_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	200340	89769
ARUBRA_DN5089_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	288580	0	0
ARHOMBI_DN3292_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	222060	63938	0
ARHOMBI_DN8290_c0_g2_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	122860	0	162870
ARHOMBI_DN22455_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	284040
ARUBRA_DN3317_c0_g1_i1_3	0	59839	94172	129960	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN8153_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	283720	0
ARUBRA_DN19644_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	154490	125960
ARUBRA_DN17529_c0_g1_i1_1	279250	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN390_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	114460	163970	0
ARHOMBI_DN10092_c0_g1_i1_1	95387	111240	0	70113	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN15307_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	276450	0	0
ARHOMBI_DN9011_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	120140	153560	0
ARHOMBI_DN18489_c0_g2_i1_2	0	0	0	113580	0	0	0	0	0	0	0	0	159080	0	0
ARHOMBI_DN1634_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	270710
ARUBRA_DN8885_c0_g1_i1_2	0	0	0	0	270040	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN16188_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	106560	163210
ARUBRA_DN21545_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	126700	142570
ARHOMBI_DN16333_c1_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	169040	0	99709
ARUBRA_DN4684_c0_g2_i2_5	0	0	0	0	0	0	0	0	0	0	0	0	267710	0	0
ARHOMBI_DN25309_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	131390	136150
ARHOMBI_DN7295_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	267370

ARHOMBI_DN3332_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	121760	144650
ARUBRA_DN12402_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	113450	152500
ARHOMBI_DN9886_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	120580	144620
ARHOMBI_DN16830_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	263960
ARHOMBI_DN19962_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	263400	0	0
ARHOMBI_DN7050_c0_g1_i1_3	0	0	0	0	0	0	0	262890	0	0	0	0	0	0	0
ARUBRA_DN8811_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	262840
ARUBRA_DN9001_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	125440	0	137240
ARHOMBI_DN17895_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	262290
ARHOMBI_DN1601_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	262250	0
ARHOMBI_DN22439_c0_g1_i1_5	0	0	0	0	261270	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN3123_c0_g1_i2_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	261180
ARUBRA_DN26477_c0_g1_i1_2	0	0	0	0	0	121400	0	0	0	0	0	0	139650	0	0
ARHOMBI_DN15728_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	138390	121980	0
ARUBRA_DN14653_c0_g1_i1_5	0	0	0	23029	0	0	0	0	236230	0	0	0	0	0	0
ARUBRA_DN239_c0_g1_i1_1	0	0	0	121000	0	0	0	0	138120	0	0	0	0	0	0
ARUBRA_DN981_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	258380	0
ARHOMBI_DN6224_c0_g1_i3_2	0	0	15743	39095	202860	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN43_c0_g1_i1_1	39536	44189	0	0	0	0	0	0	0	0	0	0	0	0	171670
ARHOMBI_DN10061_c0_g1_i1_1	114000	139600	0	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN860_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	247780
ARUBRA_DN4926_c0_g2_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	247350	0
ARHOMBI_DN442_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	247290	0
ARUBRA_DN7677_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	245290	0
ARHOMBI_DN23943_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	86235	108320	48468
ARHOMBI_DN5334_c0_g2_i1_6	242910	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN2144_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	241990	0

ARUBRA_DN17900_c0_g1_i1_4	90168	89266	61556	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN7215_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	104700	0	135010
ARHOMBI_DN10966_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	140670	98047	0
ARUBRA_DN4852_c0_g1_i2_5	0	0	0	0	0	0	0	0	0	0	0	0	237990	0	0
ARUBRA_DN7820_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	123570	113750
ARUBRA_DN3218_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	237060
ARUBRA_DN14060_c0_g1_i1_6	236500	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN3766_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	102220	134090
ARHOMBI_DN19865_c0_g1_i1_4	0	0	0	0	0	0	0	236020	0	0	0	0	0	0	0
ARHOMBI_DN27008_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	234090
ARHOMBI_DN14983_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	233400
ARUBRA_DN23880_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	126760	106610
ARHOMBI_DN17419_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	233010	0	0
ARUBRA_DN16616_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	232430
ARUBRA_DN17646_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	111750	0	119790
ARUBRA_DN22151_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	231480	0
ARHOMBI_DN14825_c0_g1_i1_2	45563	158020	26918	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN16314_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	230260	0
ARHOMBI_DN3532_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	229610	0
ARHOMBI_DN4371_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	228840	0
ARUBRA_DN13912_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	108990	119700
ARHOMBI_DN17734_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	92264	133610	0
ARHOMBI_DN21284_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	225710	0	0
ARUBRA_DN8408_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	224030
ARUBRA_DN8779_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	223770	0
ARUBRA_DN85_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	223610	0	0
ARHOMBI_DN16378_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	54624	168480

ARHOMBI_DN22637_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	103780	0	117480
ARHOMBI_DN16961_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	106500	114130	0
ARUBRA_DN6264_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	220220	0
ARHOMBI_DN6677_c0_g1_i1_3	0	0	0	0	0	0	219890	0	0	0	0	0	0	0	0
ARHOMBI_DN15571_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	85044	134650
ARUBRA_DN2280_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	100110	119430
ARHOMBI_DN5894_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	219470
ARHOMBI_DN18104_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	120160	99117	0
ARUBRA_DN9413_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	219240	0	0
ARUBRA_DN8576_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	94391	0	124410
ARHOMBI_DN4497_c0_g1_i1_6	78701	0	139960	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN7437_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	171260	45949
ARUBRA_DN6344_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	216750	0	0
ARHOMBI_DN142_c0_g1_i2_6	71229	97461	45075	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN2804_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	213730
ARUBRA_DN14140_c0_g1_i1_5	0	0	0	0	0	0	0	213190	0	0	0	0	0	0	0
ARUBRA_DN20165_c0_g1_i1_6	0	0	50314	0	0	0	0	0	0	0	0	0	0	162730	0
ARUBRA_DN11522_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	211460
ARUBRA_DN7178_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	211360	0
ARUBRA_DN495_c0_g1_i1_6	208950	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN15567_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	115580	93072	0
ARHOMBI_DN20913_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	91887	115820
ARUBRA_DN19959_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	207520	0	0
ARUBRA_DN8310_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	207300	0	0
ARHOMBI_DN11012_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	205620	0
ARUBRA_DN6936_c0_g1_i1_4	81418	91104	32759	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN21368_c0_g1_i1_6	47601	157440	0	0	0	0	0	0	0	0	0	0	0	0	0

ARUBRA_DN5364_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	79509	0	125240
ARUBRA_DN568_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	203970
ARHOMBI_DN24822_c0_g1_i1_5	0	203870	0	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN8308_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	202970	0	0
ARHOMBI_DN249_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	121010	81453
ARHOMBI_DN12088_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200410
ARHOMBI_DN16872_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	200080	0	0
ARHOMBI_DN12473_c0_g1_i1_6	0	199290	0	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN9724_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	199200	0
ARHOMBI_DN11959_c0_g1_i1_2	0	199030	0	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN3899_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	197750	0
ARUBRA_DN9135_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	197120	0	0	0
ARUBRA_DN3321_c0_g1_i1_1	71663	65066	60372	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN3221_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	196990
ARUBRA_DN7240_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	196730
ARUBRA_DN25966_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	196690
ARHOMBI_DN2599_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	195150	0
ARUBRA_DN13308_c0_g1_i1_1	0	0	191770	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN10910_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	190840	0
ARUBRA_DN24761_c0_g1_i1_3	0	0	0	106620	0	0	0	0	0	0	0	0	0	0	83808
ARHOMBI_DN11254_c0_g1_i1_1	0	0	0	189440	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN24634_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	189430
ARHOMBI_DN4130_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	189240	0
ARHOMBI_DN2201_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	188980	0	0
ARUBRA_DN19418_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	188370	0
ARUBRA_DN1850_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	185070	0
ARHOMBI_DN9657_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	184280

ARUBRA_DN22015_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	184120
ARUBRA_DN21497_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	184050	0	0
ARHOMBI_DN17553_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	182640	0
ARUBRA_DN23958_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	182250
ARHOMBI_DN6893_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	87350	93811
ARUBRA_DN9664_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	180900
ARUBRA_DN3808_c0_g2_i1_1	0	0	0	180640	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN14331_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	100410	79622
ARUBRA_DN209_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	179310	0	0
ARHOMBI_DN16878_c0_g1_i1_1	0	0	44362	0	0	0	0	0	0	0	0	0	0	0	133910
ARUBRA_DN3885_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	77910	0	99438
ARHOMBI_DN9575_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	177170
ARHOMBI_DN4563_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	176860	0	0
ARHOMBI_DN5164_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	74245	0	102070
ARUBRA_DN2931_c0_g1_i1_4	70959	104890	0	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN8810_c0_g1_i1_3	0	0	171560	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN27193_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	95387	75726
ARHOMBI_DN2247_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	171060	0	0	0
ARUBRA_DN25129_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	170590	0	0
ARUBRA_DN7581_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	169930	0	0	0	0	0
ARUBRA_DN26635_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	165680
ARUBRA_DN25922_c0_g1_i1_4	0	0	0	162810	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN16586_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	162590	0
ARUBRA_DN23667_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	77269	0	85156
ARHOMBI_DN1477_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	160660	0
ARUBRA_DN23915_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	160530	0
ARUBRA_DN16207_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	78905	81261	0

ARUBRA_DN12100_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	158500	0	0
ARHOMBI_DN5013_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	151370	0	0
ARHOMBI_DN17278_c0_g1_i1_1	0	0	0	0	150240	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN8077_c0_g1_i1_3	84301	0	64244	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN12156_c0_g1_i1_6	0	73132	37676	36612	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN19746_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	146270
ARHOMBI_DN5681_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	145070	0
ARHOMBI_DN9772_c0_g1_i1_3	0	100030	44052	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN2587_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	139610
ARHOMBI_DN14925_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	138890	0
ARHOMBI_DN13424_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	135640	0	0
ARHOMBI_DN17556_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	135160	0
ARHOMBI_DN23552_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	82453	0	52122
ARHOMBI_DN2495_c0_g2_i1_3	0	0	0	0	0	0	0	134050	0	0	0	0	0	0	0
ARUBRA_DN16642_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	131220
ARUBRA_DN8504_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	130270
ARHOMBI_DN3218_c0_g1_i1_5	58661	70626	0	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN6191_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	128270	0
ARUBRA_DN13074_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	123960	0
ARHOMBI_DN2701_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	123900
ARUBRA_DN13385_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	123850	0
ARHOMBI_DN4455_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	123390
ARUBRA_DN1705_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	123130	0
ARHOMBI_DN14374_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	122770	0
ARUBRA_DN3623_c0_g1_i1_6	52788	0	33190	33712	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN6227_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	116150	0
ARUBRA_DN14347_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	114770	0	0

ARUBRA_DN4655_c0_g1_i1_4	0	58978	55464	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN152_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	113980
ARUBRA_DN21454_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	112230	0	0
ARHOMBI_DN14749_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111960
ARUBRA_DN1738_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	111160	0
ARHOMBI_DN6745_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	67169	42512
ARHOMBI_DN9761_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109060
ARHOMBI_DN16459_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	108340	0
ARHOMBI_DN630_c0_g2_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108170
ARUBRA_DN10120_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107370
ARHOMBI_DN26737_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106280
ARHOMBI_DN20055_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	103020	0
ARUBRA_DN68_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	102730	0	0
ARUBRA_DN18173_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	102430	0
ARHOMBI_DN11266_c0_g1_i1_5	0	0	102420	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN15293_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	102190	0
ARUBRA_DN16348_c0_g1_i1_1	36567	44933	20158	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN5557_c0_g1_i1_3	0	0	0	100790	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN807_c0_g1_i1_6	60395	40009	0	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN22251_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95226
ARHOMBI_DN6086_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	92008
ARUBRA_DN15584_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90612
ARUBRA_DN23559_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	88737	0	0
ARHOMBI_DN3575_c0_g2_i1_3	0	0	0	88700	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN18865_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87991
ARUBRA_DN81_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87238
ARUBRA_DN17068_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	86393	0

ARHOMBI_DN11773_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85784
ARHOMBI_DN15266_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	84031	0	0
ARHOMBI_DN19693_c0_g1_i1_6	0	63798	19842	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN21801_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80917
ARHOMBI_DN676_c0_g2_i1_2	0	0	0	80200	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN6521_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77047
ARHOMBI_DN4350_c0_g1_i1_4	0	0	0	76957	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN6943_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75806
ARHOMBI_DN16004_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74367
ARUBRA_DN26911_c0_g1_i1_3	40216	32823	0	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN7765_c0_g1_i1_6	0	0	73037	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN9287_c0_g1_i1_4	0	0	0	72878	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN10301_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72069
ARHOMBI_DN25736_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70246
ARHOMBI_DN25307_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67918
ARHOMBI_DN827_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	65802	0	0
ARUBRA_DN5154_c0_g1_i1_1	0	64391	0	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN10484_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	63357	0	0
ARUBRA_DN4965_c9_g2_i1_4	0	60470	0	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN650_c0_g2_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59287
ARUBRA_DN19110_c0_g1_i1_2	0	0	58833	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN5597_c0_g2_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54195
ARUBRA_DN21139_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51723
ARUBRA_DN3651_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50612
ARUBRA_DN460_c0_g1_i1_6	0	0	0	0	14176	0	0	31364	0	0	0	0	0	0	0
ARUBRA_DN26660_c0_g1_i1_1	0	0	0	0	0	0	0	44771	0	0	0	0	0	0	0
ARHOMBI_DN2961_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44529

ARUBRA_DN15712_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	43050	0	0	0
ARHOMBI_DN5284_c0_g3_i1_5	0	0	0	41516	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN12176_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40333
ARUBRA_DN4419_c0_g1_i1_1	38263	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN3086_c0_g1_i1_4	0	26960	0	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN5853_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22364
ARHOMBI_DN12506_c0_g1_i1_1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN10624_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN13880_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN23964_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN7424_c0_g1_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN5795_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN6070_c0_g2_i1_6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN5014_c0_g1_i1_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARHOMBI_DN8315_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN13376_c0_g1_i1_4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN21106_c0_g1_i1_3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARUBRA_DN22162_c0_g1_i1_5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Supplementary Table S9: Top BLAST hits of identified Alnus pollen proteins

Protein IDs	e-value [blastx hit 1]	bitscore [blastx hit 1]	accession [blastx hit 1]	name [blastx hit 1]	organism [blastx hit 1]	accession [blastx hit 2]
ARUBRA_DN3160_c0_g1_i1_1	5,11E-102	296	AAB24432.1	Aln g I	Alnus glutinosa	P38948.2
ARHOMBI_DN6124_c0_g1_i1_4	0	729	XP_008226131.1	phosphoglycerate kinase, cytosolic	Prunus mume	ONI11910.1
ARUBRA_DN4553_c0_g1_i1_3	1,95E-112	325	CAC84116.1	peptidylprolyl isomerase (cyclophilin)	Betula pendula	CAW66894.1
ARUBRA_DN4458_c0_g1_i1_5	0	753	XP_008241272.1	monodehydroascorbate reductase	Prunus mume	ONH96231.1
ARHOMBI_DN14767_c0_g1_i1_6						
ARUBRA_DN4969_c0_g1_i11_2	5,46E-50	165	XP_016650474.1	glycine-rich RNA-binding protein GRP1A	Prunus mume	ONH91156.1
ARUBRA_DN4696_c0_g1_i2_3	9,58E-161	452	AHF71027.1	glutathione S-transferase	Betula pendula	XP_018812288.1
ARUBRA_DN4914_c0_g1_i1_2	2,11E-172	489	XP_018839732.1	cinnamoyl-CoA reductase 1-like	Juglans regia	XP_018839732.1
ARUBRA_DN3195_c0_g1_i1_6	0	583	AGU09563.1	isoflavone reductase	Corylus avellana	AAG22740.1
ARUBRA_DN2052_c0_g1_i1_5	5,02E-160	451	XP_018818881.1	L-ascorbate peroxidase, cytosolic	Juglans regia	XP_018818882.1
ARUBRA_DN17603_c0_g1_i1_4	3,63E-92	270	XP_008241145.1	ubiquitin-NEDD8-like protein RUB2	Prunus mume	ONH95703.1
ARUBRA_DN23118_c0_g1_i1_1	1,34E-79	239	OAY27195.1	hypothetical protein MANES_16G107500	Manihot esculenta	ABG81302.1
ARHOMBI_DN3404_c0_g1_i1_5	0	553	XP_018841935.1	putative lactoylglutathione lyase	Juglans regia	KHN33024.1
ARHOMBI_DN8875_c0_g1_i1_3	0	538	XP_018806786.1	aldose 1-epimerase	Juglans regia	OAY32166.1
ARUBRA_DN10871_c0_g1_i1_1	3,86E-63	194	XP_018842397.1	glutaredoxin-like	Juglans regia	XP_009334103.1
ARHOMBI_DN3889_c0_g1_i1_5	0	558	XP_018839113.1	aldo-keto reductase family 4 member C9-like	Juglans regia	XP_018839114.1
ARHOMBI_DN5373_c0_g1_i1_4	0	1008	XP_018819373.1	2,3-bisphosphoglycerate-independent phosphoglycerate mutase	Juglans regia	XP_018819374.1
ARUBRA_DN4854_c0_g1_i1_3	1,49E-124	360	XP_018852474.1	probable phospholipid hydroperoxide glutathione peroxidase	Juglans regia	KDP25447.1
ARUBRA_DN1249_c0_g2_i1_2	2,94E-98	285	XP_018844175.1	peptidyl-prolyl cis-trans isomerase FKBP15-1	Juglans regia	OAY32871.1
ARHOMBI_DN5306_c0_g1_i1_6	3,49E-156	442	XP_018814537.1	triosephosphate isomerase, cytosolic	Juglans regia	OAY46102.1
ARUBRA_DN5302_c0_g1_i1_5	0	615	XP_018811449.1	UTP--glucose-1-phosphate uridylyltransferase	Juglans regia	XP_018816885.1
ARHOMBI_DN26299_c0_g1_i1_4	6,82E-15	70,1	XP_018837516.1	uncharacterized protein LOC109003708	Juglans regia	
ARHOMBI_DN5459_c0_g1_i1_2	0	761	XP_018841632.1	uncharacterized protein LOC109006717	Juglans regia	XP_018829078.1
ARHOMBI_DN5273_c0_g1_i1_3	5,59E-84	251	KDP23592.1	hypothetical protein JCGZ_23425	Jatropha curcas	XP_012089157.1
ARHOMBI_DN1417_c0_g1_i1_5	1,76E-41	139	XP_008235991.1	glycine-rich protein 2-like	Prunus mume	XP_018823876.1
ARHOMBI_DN5581_c0_g1_i1_3	5,93E-103	303	ONI14208.1	hypothetical protein PRUPE_4G269100	Prunus persica	KDP45998.1
ARUBRA_DN2313_c0_g1_i1_3	1,61E-31	114	CAC39160.1	putative LEA III protein isoform 1	Corylus avellana	CAC39110.1
ARUBRA_DN9810_c0_g1_i1_4	4,12E-152	429	XP_018807198.1	uncharacterized protein LOC108980651	Juglans regia	XP_020973954.1
ARHOMBI_DN6211_c0_g2_i1_6	1,64E-98	290	XP_018850024.1	translationally-controlled tumor protein homolog	Juglans regia	XP_015939773.1
ARUBRA_DN22898_c0_g1_i1_5	0	581	XP_018807661.1	malate dehydrogenase	Juglans regia	XP_018808212.1
ARUBRA_DN2253_c0_g1_i1_1	0	645	XP_018837851.1	phosphoglucomutase, cytoplasmic	Juglans regia	XP_018826631.1
ARHOMBI_DN4873_c0_g1_i1_4	0	593	XP_018851336.1	2-alkenal reductase (NADP(+)-dependent)-like isoform X2	Juglans regia	XP_018851335.1

ARUBRA_DN18206_c0_g1_i1_4	6,41E-20	84,7	XP_018837516.1	uncharacterized protein LOC109003708	Juglans regia	XP_008367865.1
ARUBRA_DN6222_c0_g1_i1_5	5,46E-99	290	XP_018847774.1	probable calcium-binding protein CML13	Juglans regia	XP_018831699.1
ARHOMBI_DN5949_c0_g2_i1_6	0	857	CAA63121.1	enolase	Alnus glutinosa	CBN61481.1
ARHOMBI_DN4456_c0_g1_i1_5	0	616	XP_018814928.1	probable lactoylglutathione lyase, chloroplastic	Juglans regia	XP_009352517.1
ARUBRA_DN390_c0_g1_i1_5	1,33E-74	235	XP_018816885.1	UTP--glucose-1-phosphate uridylyltransferase	Juglans regia	XP_018811449.1
ARUBRA_DN4992_c0_g1_i1_3	4,12E-145	415	XP_018846260.1	putative methyltransferase DDB_G0268948	Juglans regia	XP_018838664.1
ARHOMBI_DN5841_c0_g1_i1_5	1,57E-153	434	XP_018851982.1	GTP-binding nuclear protein Ran-3-like	Juglans regia	KOM41958.1
ARHOMBI_DN6196_c0_g1_i2_5	0	662	CAJ21172.1	alcohol dehydrogenase	Alnus glutinosa	XP_018839886.1
ARHOMBI_DN3043_c0_g1_i1_4	9,15E-73	219	XP_018846792.1	peptidyl-prolyl cis-trans isomerase FKBP12	Juglans regia	XP_016182032.1
ARUBRA_DN4475_c0_g1_i1_2	6,35E-131	373	XP_018807996.1	glycolipid transfer protein 1-like	Juglans regia	XP_018808001.1
ARUBRA_DN1141_c0_g1_i1_1	7,07E-52	164	XP_008385845.1	small ubiquitin-related modifier 1	Malus domestica	XP_008359255.1
ARHOMBI_DN3285_c0_g1_i1_6	2,53E-148	421	XP_018839113.1	aldo-keto reductase family 4 member C9-like	Juglans regia	XP_018839114.1
ARUBRA_DN10174_c0_g1_i1_6	5,86E-85	250	XP_008231331.1	thioredoxin-like protein Clot	Prunus mume	ONI20288.1
ARHOMBI_DN7524_c0_g1_i1_6	1,32E-122	351	XP_018810050.1	peptidyl-prolyl cis-trans isomerase CYP20-1	Juglans regia	ONH99912.1
ARHOMBI_DN4459_c0_g1_i1_3	5,08E-72	218	XP_012089770.1	macrophage migration inhibitory factor homolog isoform X2	Jatropha curcas	OAY41554.1
ARHOMBI_DN6146_c1_g1_i1_4	0	1481	ONH94297.1	hypothetical protein PRUPE_7G009200	Prunus persica	ONH94298.1
ARUBRA_DN4074_c0_g1_i1_4	9,63E-55	177	XP_018826050.1	acyl carrier protein 1, chloroplastic-like	Juglans regia	XP_018840595.1
ARHOMBI_DN3575_c0_g1_i1_3	4,20E-152	427	XP_018860753.1	haloacid dehalogenase-like hydrolase domain-containing protein Sgpp	Juglans regia	XP_008229524.1
ARHOMBI_DN4328_c0_g1_i1_6	3,76E-162	458	XP_018858487.1	(+)-neomenthol dehydrogenase-like isoform X1	Juglans regia	XP_020218534.1
ARUBRA_DN411_c0_g1_i1_5	1,32E-83	250	XP_018852846.1	uncharacterized protein At4g28440-like	Juglans regia	KDP26583.1
ARHOMBI_DN3323_c0_g1_i1_4	3,39E-75	228	XP_018834238.1	cytochrome c	Juglans regia	ONI35591.1
ARHOMBI_DN5928_c0_g3_i2_6	2,69E-64	195	XP_018830469.1	ubiquitin-conjugating enzyme E2-17 kDa-like, partial	Juglans regia	XP_008233222.1
ARUBRA_DN4841_c0_g1_i1_6	1,85E-178	506	XP_018841745.1	uncharacterized protein At5g02240-like	Juglans regia	ONI03446.1
ARHOMBI_DN6080_c1_g1_i1_1	1,23E-56	177	XP_018833110.1	cysteine proteinase inhibitor A-like	Juglans regia	XP_018833111.1
ARUBRA_DN16244_c0_g1_i1_2	0	650	ONI03043.1	hypothetical protein PRUPE_6G235100	Prunus persica	XP_008243957.1
ARUBRA_DN18719_c0_g1_i1_2	1,83E-94	277	XP_009353661.1	triosephosphate isomerase, cytosolic	Pyrus x bretschneideri	XP_018823301.1
ARHOMBI_DN4484_c0_g1_i1_2	7,81E-87	257	XP_018833372.1	profilin-3	Juglans regia	XP_018808763.1
ARHOMBI_DN5698_c2_g1_i1_5	4,37E-57	176	XP_018831298.1	tubulin-folding cofactor A-like	Juglans regia	XP_018831299.1
ARHOMBI_DN15379_c0_g1_i1_6	1,24E-166	470	XP_018838373.1	protein CDI-like	Juglans regia	XP_016202283.1
ARUBRA_DN10745_c0_g1_i1_4	5,21E-79	235	XP_018811921.1	elicitor-responsive protein 3	Juglans regia	OAY56540.1
ARUBRA_DN17745_c0_g1_i1_5	1,39E-81	248	XP_016183838.1	uncharacterized protein LOC107625656	Arachis ipaensis	KHN12948.1
ARUBRA_DN16936_c0_g1_i1_5	2,73E-100	294	ADU56174.1	ubiquitin-conjugating family protein	Jatropha curcas	ADV04060.1
ARUBRA_DN4620_c0_g1_i1_1	0	1153	KDP32613.1	hypothetical protein JCGZ_13163	Jatropha curcas	XP_012078471.1
ARUBRA_DN4102_c0_g1_i1_3	0	627	XP_018856844.1	calreticulin-like	Juglans regia	XP_018816251.1

ARHOMBI_DN9782_c0_g1_i1_2	1,65E-39	131	XP_018830082.1	desiccation protectant protein Lea14 homolog	Juglans regia	XP_018847006.1
ARUBRA_DN4847_c0_g2_i2_1	0	631	XP_018824429.1	probable aldo-keto reductase 2	Juglans regia	KHN15572.1
ARUBRA_DN5827_c0_g1_i1_2	4,73E-45	151	XP_018806786.1	aldose 1-epimerase	Juglans regia	XP_009360073.1
ARHOMBI_DN3150_c0_g1_i1_6	8,73E-111	331	XP_018825758.1	galactokinase-like isoform X1	Juglans regia	XP_018825759.1
ARHOMBI_DN3869_c0_g1_i1_1	6,09E-125	360	XP_018811825.1	photosynthetic NDH subunit of lumenal location 5, chloroplastic-like	Juglans regia	XP_018813322.1
ARHOMBI_DN4569_c0_g1_i1_2	3,83E-54	171	OAY29922.1	hypothetical protein MANES_15G182400	Manihot esculenta	OAY24334.1
ARHOMBI_DN8000_c0_g1_i1_4	6,45E-90	274	XP_018825758.1	galactokinase-like isoform X1	Juglans regia	XP_018825759.1
ARHOMBI_DN10026_c0_g1_i1_5	4,06E-70	214	XP_018845447.1	glutaredoxin-C4	Juglans regia	KDP46838.1
ARHOMBI_DN3561_c0_g2_i1_2	1,90E-61	190	XP_018839522.1	probable steroid-binding protein 3	Juglans regia	XP_018839569.1
ARHOMBI_DN18818_c0_g1_i1_2	1,12E-99	292	XP_018837329.1	glycine cleavage system H protein 2, mitochondrial-like	Juglans regia	XP_018859042.1
ARUBRA_DN19744_c0_g1_i1_2	2,83E-126	371	XP_018828611.1	uncharacterized protein LOC108996994	Juglans regia	XP_018819156.1
ARHOMBI_DN5210_c0_g1_i1_5	0	615	XP_018829694.1	guanine nucleotide-binding protein subunit beta-like protein	Juglans regia	XP_018860423.1
ARHOMBI_DN5071_c0_g1_i1_6	0	525	XP_018841469.1	L-ascorbate peroxidase 3, peroxisomal-like	Juglans regia	XP_018823838.1
ARUBRA_DN24356_c0_g1_i1_4	2,96E-81	239	XP_018840197.1	nuclear transport factor 2-like	Juglans regia	KDP26818.1
ARHOMBI_DN25271_c0_g1_i1_5	1,99E-43	152	XP_018819144.1	hydroxyproline O-galactosyltransferase GALT6-like isoform X2	Juglans regia	XP_018819143.1
ARUBRA_DN4454_c0_g1_i1_2	1,60E-175	502	ONI21983.1	hypothetical protein PRUPE_2G099900	Prunus persica	XP_007218975.2
ARHOMBI_DN6208_c0_g1_i2_5	0	934	XP_018844063.1	adenosylhomocysteinase-like	Juglans regia	OAY55304.1
ARHOMBI_DN1745_c0_g1_i1_2	0	588	XP_018823484.1	eukaryotic translation initiation factor-like isoform X1	Juglans regia	XP_018823485.1
ARUBRA_DN21566_c0_g1_i1_2	0	565	XP_018839537.1	probable protein phosphatase 2C 59	Juglans regia	XP_018839538.1
ARUBRA_DN4108_c0_g1_i1_5	0	519	XP_018826881.1	soluble inorganic pyrophosphatase 6, chloroplastic-like	Juglans regia	XP_018844455.1
ARHOMBI_DN5571_c0_g1_i1_5	4,39E-108	319	XP_018825058.1	elongation factor 1-delta-like	Juglans regia	XP_018825059.1
ARUBRA_DN4060_c0_g2_i1_2	1,58E-106	310	XP_018824314.1	reactive Intermediate Deaminase A, chloroplastic-like	Juglans regia	XP_018811490.1
ARHOMBI_DN6185_c1_g1_i1_5	1,98E-90	274	XP_017188304.1	protein IN2-1 homolog B-like	Malus domestica	ONI24059.1
ARHOMBI_DN5260_c0_g1_i1_6	2,46E-125	361	XP_018841699.1	ras-related protein RABE1c-like	Juglans regia	XP_018841700.1
ARHOMBI_DN6086_c1_g1_i1_6	0	784	ADT91622.1	actin7a	Hevea brasiliensis	AEF33711.1
ARUBRA_DN4124_c0_g1_i1_3	0	910	XP_018849756.1	ATP synthase subunit beta, mitochondrial	Juglans regia	XP_008243316.1
ARHOMBI_DN6236_c1_g1_i3_6	0	616	XP_018811967.1	probable aldo-keto reductase 1	Juglans regia	XP_018826312.1
ARHOMBI_DN5869_c0_g1_i1_6	0	621	ACU23175.1	unknown	Glycine max	NP_001236300.2
ARUBRA_DN4641_c0_g1_i1_2	0	1201	XP_018814481.1	heat shock cognate 70 kDa protein 2-like	Juglans regia	OAY38641.1
ARUBRA_DN23856_c0_g1_i1_3	1,44E-67	206	XP_018844068.1	glycine-rich RNA-binding protein 2, mitochondrial-like	Juglans regia	ACI15745.1
ARHOMBI_DN5685_c0_g2_i1_3	0	650	ONH96252.1	hypothetical protein PRUPE_7G116600	Prunus persica	XP_007202259.1

ARUBRA_DN3590_c0_g2_i1_3	0	525	XP_018823791.1	triosephosphate isomerase, chloroplastic	Juglans regia	XP_020425754.1
ARHOMBI_DN3136_c0_g1_i1_1	1,89E-145	411	XP_012083760.1	ras-related protein RABH1b	Jatropha curcas	ONI22221.1
ARUBRA_DN4556_c0_g1_i2_4	0	728	ADR70876.1	eukaryotic translation elongation factor 1B gamma-subunit	Hevea brasiliensis	XP_018817874.1
ARHOMBI_DN24422_c0_g1_i1_5	3,47E-65	203	XP_018823301.1	triosephosphate isomerase, cytosolic	Juglans regia	ONI00223.1
ARUBRA_DN990_c0_g1_i1_1	2,57E-84	250	XP_018842805.1	cytochrome b5-like	Juglans regia	XP_018842806.1
ARUBRA_DN1071_c0_g1_i1_2	1,60E-132	382	XP_018849508.1	protein DJ-1 homolog B-like	Juglans regia	XP_018849508.1
ARUBRA_DN2969_c0_g1_i1_3	4,89E-57	182	XP_014516627.1	aldo-keto reductase family 4 member C9-like Vigna radiata var. radiata	Vigna radiata var. radiata	BAT97190.1
ARHOMBI_DN4165_c0_g1_i1_1	2,93E-81	243	XP_018836787.1	nuclear transport factor 2-like	Juglans regia	XP_018807037.1
ARHOMBI_DN5934_c0_g1_i1_3	0	832	XP_018858114.1	protein disulfide-isomerase-like	Juglans regia	XP_018858121.1
ARHOMBI_DN5622_c0_g1_i1_3	1,50E-108	327	XP_018848770.1	uncharacterized protein At5g39570-like	Juglans regia	XP_018848770.1
ARHOMBI_DN4656_c0_g1_i1_6	3,73E-92	273	XP_018848789.1	peroxiredoxin-2B	Juglans regia	XP_018857900.1
ARHOMBI_DN6034_c0_g1_i2_3	0	1249	CAC14168.1	putative luminal binding protein	Corylus avellana	CAW63975.1
ARHOMBI_DN6068_c0_g1_i2_3	0	1238	KYP38780.1	Endoplasmin isogeny	Cajanus cajan	XP_020203653.1
ARHOMBI_DN1849_c0_g1_i1_3	0	768	XP_018818327.1	guanosine nucleotide diphosphate dissociation inhibitor At5g09550	Juglans regia	ONH90692.1
ARUBRA_DN8471_c0_g1_i1_3	3,89E-64	197	XP_018847877.1	EG45-like domain containing protein	Juglans regia	XP_018858754.1
ARUBRA_DN2937_c0_g1_i2_1	0	511	XP_014494377.1	glyceraldehyde-3-phosphate dehydrogenase GAPC1, cytosolic	Vigna radiata var. radiata	AES72079.1
ARUBRA_DN6062_c0_g1_i1_1	6,35E-98	285	XP_018822739.1	14 kDa zinc-binding protein	Juglans regia	XP_020204134.1
ARHOMBI_DN5785_c0_g1_i1_4	1,81E-162	468	XP_018845045.1	probable receptor-like protein kinase At5g24010	Juglans regia	XP_018851677.1
ARHOMBI_DN3876_c0_g1_i1_6	0	689	XP_018829624.1	naringenin,2-oxoglutarate 3-dioxygenase	Juglans regia	ARV78456.1
ARHOMBI_DN6149_c0_g1_i1_6	0	1086	XP_018819865.1	polyadenylate-binding protein 2-like	Juglans regia	XP_018822308.1
ARUBRA_DN6670_c0_g1_i1_3	4,24E-46	155	AIU50414.1	pectin lyase-like superfamily protein, partial	Glycine max	CBD34387.1
ARHOMBI_DN6225_c0_g2_i1_5	0	691	XP_018816668.1	ADP,ATP carrier protein 1, mitochondrial	Juglans regia	CAA05979.1
ARUBRA_DN4747_c0_g1_i1_6	6,82E-172	487	XP_018823047.1	2-methylene-furan-3-one reductase-like	Juglans regia	XP_018823045.1
ARHOMBI_DN5137_c0_g1_i1_5	1,29E-122	352	KDP30996.1	hypothetical protein JCGZ_11372	Jatropha curcas	XP_012079937.1
ARUBRA_DN18006_c0_g1_i1_4	0	624	XP_018851647.1	subtilisin-like protease SBT1.7 isoform X1	Juglans regia	XP_018851649.1
ARHOMBI_DN2797_c0_g1_i1_2	5,56E-133	381	ONI00873.1	hypothetical protein PRUPE_6G109100	Prunus persica	ONI00874.1
ARHOMBI_DN3646_c0_g1_i2_4	9,03E-127	362	XP_018843515.1	UMP-CMP kinase 3-like	Juglans regia	XP_018818963.1
ARHOMBI_DN6264_c0_g1_i4_2	0	712	OAY23951.1	hypothetical protein MANES_18G120400	Manihot esculenta	XP_018841148.1
ARUBRA_DN1274_c0_g1_i1_4	0	822	XP_018859052.1	coatomer subunit delta	Juglans regia	XP_018859053.1
ARHOMBI_DN7316_c0_g1_i1_3	9,90E-63	193	XP_017191848.1	L-ascorbate peroxidase 1, cytosolic-like	Malus domestica	AGG14282.1
ARUBRA_DN13722_c0_g1_i1_3	4,00E-06	47,4	XP_008365922.1	DDB1- and CUL4-associated factor 8-like isoform X1	Malus domestica	XP_008365923.1
ARUBRA_DN4746_c1_g2_i1_3	2,63E-109	321	XP_018844473.1	stress-response A/B barrel domain-containing protein UP3-like	Juglans regia	XP_008242209.2

ARHOMBI_DN11262_c0_g1_i1_4	1,93E-23	89,4	XP_014490343.1	peptidyl-prolyl cis-trans isomerase CYP20-1-like Vigna radiata var. radiata		XP_004500488.1
ARHOMBI_DN4307_c0_g1_i1_5	0	1310	XP_018848851.1	trifunctional UDP-glucose 4,6-dehydratase/UDP-4-keto-6-deoxy-D-glucose 3,5-epimerase/UDP-4-keto-L-rhamnose-reductase RHM1	Juglans regia	XP_020226307.1
ARUBRA_DN1657_c0_g1_i1_5	4,81E-62	193	AEC03317.1	thioredoxin H-type 3	Hevea brasiliensis	OAY50655.1
ARHOMBI_DN16963_c0_g2_i1_3	5,92E-78	236	XP_018807198.1	uncharacterized protein LOC108980651	Juglans regia	ONI18422.1
ARHOMBI_DN5659_c0_g1_i1_3	3,64E-65	206	XP_018858259.1	uncharacterized protein At5g48480-like	Juglans regia	XP_018837465.1
ARHOMBI_DN9830_c0_g1_i1_4	2,37E-48	113	XP_018821777.1	peptidyl-prolyl cis-trans isomerase CYP20-1-like isoform X2	Juglans regia	XP_018821777.1
ARHOMBI_DN7974_c0_g1_i1_2	5,35E-107	320	XP_018825758.1	galactokinase-like isoform X1	Juglans regia	XP_018825759.1
ARHOMBI_DN5417_c0_g1_i1_4	0	792	XP_018817260.1	3-ketoacyl-CoA thiolase 2, peroxisomal	Juglans regia	XP_018809682.1
ARHOMBI_DN753_c0_g1_i1_1	0	610	XP_018828122.1	glutelin type-B 5-like	Juglans regia	XP_018828123.1
ARUBRA_DN4963_c0_g1_i2_5	1,39E-116	340	XP_008221708.1	glutathione S-transferase U17-like	Prunus mume	ONI30654.1
ARHOMBI_DN24139_c0_g1_i1_4	1,08E-51	168	XP_018821921.1	peroxidase P7	Juglans regia	XP_008374580.1
ARUBRA_DN18820_c0_g1_i1_4	6,43E-108	311	XP_004489035.1	ubiquitin-conjugating enzyme E2 35	Cicer arietinum	OIW06071.1
ARUBRA_DN325_c0_g2_i1_1	8,51E-109	317	XP_014507002.1	eukaryotic translation initiation factor 5A-2	Vigna radiata var. radiata	AAQ08191.1
ARHOMBI_DN13323_c0_g1_i1_2	1,64E-35	130	KDP33292.1	hypothetical protein JCGZ_13079	Jatropha curcas	XP_012077722.1
ARUBRA_DN1786_c0_g1_i1_1	4,49E-165	462	XP_018839423.1	stem-specific protein TSJT1-like	Juglans regia	XP_008224229.1
ARUBRA_DN2535_c0_g1_i1_5	0	1016	XP_018824334.1	granule-bound starch synthase 1, chloroplastic/amyloplastic-like isoform X1	Juglans regia	XP_018824335.1
ARHOMBI_DN6004_c0_g1_i1_1	5,43E-147	418	XP_019424523.1	ras-related protein RABD2b	Lupinus angustifolius	XP_008234451.1
ARHOMBI_DN6257_c0_g1_i1_3	0	1466	OAY30259.1	hypothetical protein MANES_14G016900	Manihot esculenta	OAY48624.1
ARHOMBI_DN4827_c0_g1_i1_1	9,41E-92	296	XP_018835573.1	presequence protease 1, chloroplastic/mitochondrial-like	Juglans regia	OAY39086.1
ARHOMBI_DN5844_c0_g1_i1_3	2,49E-30	110	XP_018849651.1	protein DOWNSTREAM OF FLC-like	Juglans regia	XP_018828917.1
ARHOMBI_DN5686_c0_g1_i1_6	0	944	XP_018816674.1	UDP-glucose 6-dehydrogenase 1-like	Juglans regia	XP_018816673.1
ARUBRA_DN3412_c0_g1_i1_6	7,57E-115	335	XP_018812389.1	peroxiredoxin-2E-2, chloroplastic-like	Juglans regia	XP_018839507.1
ARHOMBI_DN9161_c0_g1_i1_5	1,09E-54	184	KDP33733.1	hypothetical protein JCGZ_07304	Jatropha curcas	XP_012076781.1
ARUBRA_DN21065_c0_g1_i1_6	6,68E-55	176	ADF87393.1	class II chitinase	Arachis hypogaea	XP_018858281.1
ARUBRA_DN11174_c0_g1_i1_2	1,63E-64	203	XP_018829015.1	binding partner of ACD11 1-like	Juglans regia	AFK43849.1
ARUBRA_DN8598_c0_g1_i1_5	9,14E-54	182	XP_018837851.1	phosphoglucomutase, cytoplasmic	Juglans regia	XP_018826631.1
ARHOMBI_DN3049_c0_g1_i1_5	2,78E-142	405	KDP39130.1	hypothetical protein JCGZ_00887	Jatropha curcas	XP_012070824.1
ARUBRA_DN16568_c0_g1_i1_3	3,72E-159	449	XP_018847493.1	nitrile-specifier protein 5 isoform X1	Juglans regia	XP_018847493.1
ARUBRA_DN5078_c0_g1_i1_6	0	1054	XP_018815415.1	ruBisCO large subunit-binding protein subunit alpha	Juglans regia	XP_009376066.1

ARHOMBI_DN6227_c0_g1_i3_4	2,23E-112	328	XP_020995365.1	glutathione S-transferase U17-like	Arachis duranensis	XP_020995366.1
ARHOMBI_DN4048_c0_g1_i1_3	0	758	OAY48061.1	hypothetical protein MANES_06G128200	Manihot esculenta	OAY30593.1
ARHOMBI_DN294_c0_g2_i1_2	2,95E-56	189	XP_018858995.1	receptor-like protein kinase FERONIA	Juglans regia	ACM89471.1
ARUBRA_DN335_c0_g1_i1_4	1,28E-131	377	ONI26383.1	hypothetical protein PRUPE_1G021100	Prunus persica	XP_018818615.1
ARUBRA_DN4552_c0_g2_i1_4	6,87E-101	293	XP_014513266.1	ADP-ribosylation factor	Vigna radiata var. radiata	AGZ15424.1
ARHOMBI_DN19000_c0_g1_i1_1	7,47E-43	141	KDP42468.1	hypothetical protein JCGZ_00265	Jatropha curcas	XP_012066709.1
ARUBRA_DN4655_c0_g2_i1_6	2,20E-153	431	OIV93234.1	hypothetical protein TanjilG_27413	Lupinus angustifolius	XP_019423713.1
ARHOMBI_DN5421_c0_g1_i1_1	3,95E-101	301	XP_018833734.1	elongation factor 1-beta 2	Juglans regia	KDP34528.1
ARUBRA_DN2639_c0_g2_i1_5	8,00E-53	190	XP_018857281.1	villin-3-like isoform X1	Juglans regia	XP_018857281.1
ARHOMBI_DN6203_c0_g1_i1_4	1,22E-116	341	XP_018829689.1	3-isopropylmalate dehydratase small subunit 3-like	Juglans regia	KDP39892.1
ARHOMBI_DN5924_c0_g1_i1_3	0	592	XP_018839732.1	cinnamoyl-CoA reductase 1-like	Juglans regia	XP_008349860.1
ARUBRA_DN4385_c0_g1_i1_6	7,32E-62	192	XP_007148307.1	hypothetical protein PHAVU_006G197500g	Phaseolus vulgaris	ESW20301.1
ARHOMBI_DN16907_c0_g1_i1_2	1,23E-86	268	XP_018849508.1	protein DJ-1 homolog B-like	Juglans regia	XP_018849508.1
ARUBRA_DN23412_c0_g1_i1_1	6,36E-56	182	XP_018849508.1	protein DJ-1 homolog B-like	Juglans regia	XP_018849508.1
ARHOMBI_DN4949_c0_g1_i1_4	1,46E-105	306	KDP22298.1	hypothetical protein JCGZ_26129	Jatropha curcas	XP_012090276.1
ARHOMBI_DN9199_c0_g1_i1_3	1,16E-77	244	OAY25273.1	hypothetical protein MANES_17G081000	Manihot esculenta	XP_018826631.1
ARUBRA_DN20664_c0_g1_i1_6	3,59E-64	200	KRH30558.1	hypothetical protein GLYMA_11G192700	Glycine max	XP_003538169.1
ARHOMBI_DN9737_c0_g1_i1_1	1,71E-19	83,2	ACU16029.1	unknown	Glycine max	NP_001236978.1
ARHOMBI_DN5509_c0_g1_i1_1	0	707	XP_018817015.1	alpha-1,4-glucan-protein synthase UDP-forming 2-like	Juglans regia	XP_018818659.1
ARUBRA_DN4741_c0_g1_i1_4	3,20E-170	481	XP_018809229.1	extradiol ring-cleavage dioxygenase-like	Juglans regia	XP_018844729.1
ARUBRA_DN1142_c0_g1_i1_1	0	519	XP_018807335.1	endonuclease 4-like	Juglans regia	XP_008371307.1
ARUBRA_DN2596_c0_g1_i1_5	5,17E-75	228	ACU15022.1	unknown	Glycine max	KHN12783.1
ARUBRA_DN3451_c0_g2_i1_2	3,88E-103	299	XP_018853969.1	uncharacterized protein LOC109015966	Juglans regia	XP_018853993.1
ARHOMBI_DN5949_c0_g1_i1_6	0	867	XP_008376333.1	enolase	Malus domestica	KDP22386.1
ARUBRA_DN25800_c0_g1_i1_2	3,51E-74	231	XP_018820845.1	xylose isomerase	Juglans regia	OAY46789.1
ARUBRA_DN2944_c0_g2_i1_1	0	845	XP_018845033.1	eukaryotic initiation factor 4A-15-like	Juglans regia	XP_018504074.1
ARUBRA_DN3626_c0_g1_i1_4	1,16E-112	332	OAY31304.1	hypothetical protein MANES_14G101300	Manihot esculenta	KRH45284.1
ARUBRA_DN1658_c0_g1_i1_3	0	692	XP_018814476.1	UDP-glucuronic acid decarboxylase 6	Juglans regia	XP_018814477.1
ARUBRA_DN5995_c0_g2_i1_4	5,16E-103	298	CAW66836.1	unnamed protein product	Glycine max	CAW52404.1
ARUBRA_DN17764_c0_g1_i1_4	2,73E-77	238	XP_018818800.1	probable 6-phosphogluconolactonase 4, chloroplastic	Juglans regia	OAY59533.1
ARUBRA_DN1399_c0_g1_i1_3	0	538	XP_018805947.1	putative glucose-6-phosphate 1-epimerase isoform X1	Juglans regia	XP_018805948.1
ARHOMBI_DN5222_c0_g2_i1_6	2,63E-118	347	XP_018819182.1	ran-binding protein 1 homolog a-like	Juglans regia	XP_018835624.1
ARUBRA_DN4539_c0_g1_i1_1	1,21E-88	263	XP_018849369.1	nascent polypeptide-associated complex subunit alpha-like protein 1	Juglans regia	OAY36283.1

ARHOMBI_DN6283_c0_g15_i1_6	0	595	XP_008385284.1	elongation factor 1-alpha-like	Malus domestica	XP_018498857.1
ARUBRA_DN14209_c0_g1_i1_5	2,78E-43	151	XP_018842945.1	sugar transport protein 8-like	Juglans regia	XP_018842937.1
ARHOMBI_DN3140_c0_g1_i1_4	3,85E-54	170	XP_018851363.1	ubiquitin-fold modifier 1	Juglans regia	XP_004505718.1
ARUBRA_DN3913_c0_g2_i2_6	0	938	XP_018844065.1	serine hydroxymethyltransferase 4	Juglans regia	XP_018848538.1
ARHOMBI_DN5648_c0_g1_i1_6	0	545	XP_018859879.1	altered inheritance of mitochondria protein 32-like	Juglans regia	ONI19697.1
ARHOMBI_DN9622_c0_g1_i1_2	4,39E-164	469	KHN12100.1	Aldehyde dehydrogenase family 2 member B7, mitochondrial	Glycine soja	KRH74615.1
ARUBRA_DN4716_c0_g2_i1_1	0	597	ONI02574.1	hypothetical protein PRUPE_6G207500	Prunus persica	XP_007205414.1
ARHOMBI_DN5959_c0_g1_i1_1	0	810	KDP35739.1	hypothetical protein JCGZ_10511	Jatropha curcas	XP_012074735.1
ARUBRA_DN7093_c0_g1_i1_1	3,00E-68	211	XP_018813581.1	uncharacterized protein Os08g0359500	Juglans regia	XP_020959531.1
ARHOMBI_DN5317_c0_g1_i1_1	0	748	XP_018826582.1	malate dehydrogenase, chloroplastic	Juglans regia	XP_018826583.1
ARHOMBI_DN17873_c0_g1_i1_6	7,18E-12	67,4	XP_018838903.1	late embryogenesis abundant protein D-29-like isoform X1	Juglans regia	XP_018838904.1
ARHOMBI_DN15725_c0_g1_i1_6	0	596	XP_018857901.1	alpha-galactosidase 1-like	Juglans regia	XP_008389053.1
ARUBRA_DN3134_c0_g2_i1_6	3,00E-105	307	KDP21650.1	hypothetical protein JCGZ_03321	Jatropha curcas	XP_012091217.1
ARUBRA_DN8237_c0_g1_i1_4	3,75E-135	386	XP_018813989.1	vesicle transport v-SNARE 13-like	Juglans regia	XP_018813990.1
ARHOMBI_DN5100_c0_g1_i1_3	0	971	XP_018813723.1	polyadenylate-binding protein 2-like	Juglans regia	BAJ53195.1
ARUBRA_DN4014_c0_g3_i1_3	8,66E-90	268	XP_009358774.1	aldo-keto reductase family 4 member C9-like	Pyrus x bretschneideri	ONI03512.1
ARUBRA_DN2976_c1_g1_i1_5	4,09E-169	478	XP_018806495.1	14-3-3-like protein	Juglans regia	XP_018808590.1
ARHOMBI_DN5768_c0_g1_i1_6	8,44E-15	71,2	KDP41684.1	hypothetical protein JCGZ_16091	Jatropha curcas	OAY22978.1
ARUBRA_DN6355_c0_g1_i1_3	7,09E-121	362	KDP44055.1	hypothetical protein JCGZ_05522	Jatropha curcas	KDP44055.1
ARHOMBI_DN2325_c0_g2_i1_5	0	511	XP_008236827.1	ubiquitin fusion degradation protein 1 homolog	Prunus mume	XP_016650890.1
ARHOMBI_DN9876_c0_g1_i1_3	2,26E-113	336	XP_018807889.1	heterogeneous nuclear ribonucleoprotein 1-like	Juglans regia	XP_018807889.1
ARUBRA_DN1667_c0_g1_i1_4	2,04E-74	223	XP_018821975.1	thioredoxin H-type	Juglans regia	XP_018821976.1
ARHOMBI_DN2829_c0_g1_i1_5	4,97E-64	198	XP_018838136.1	uncharacterized protein LOC109004143 isoform X2	Juglans regia	XP_018838135.1
ARUBRA_DN2825_c0_g1_i1_4	7,51E-76	246	XP_018836580.1	aminopeptidase M1-like	Juglans regia	XP_018836578.1
ARUBRA_DN1403_c0_g1_i1_4	0	972	XP_004492897.1	V-type proton ATPase subunit B 2-like	Cicer arietinum	AES80476.1
ARHOMBI_DN5577_c0_g1_i1_6	0	1016	XP_018822921.1	methionine--tRNA ligase, cytoplasmic	Juglans regia	XP_008232482.1
ARHOMBI_DN20240_c0_g1_i1_6	1,85E-65	199	XP_018856302.1	nitrile-specifier protein 5-like, partial	Juglans regia	XP_018847493.1
ARUBRA_DN5882_c0_g1_i1_4	0	652	XP_018844184.1	thiol protease aleurain-like	Juglans regia	KDP33917.1
ARUBRA_DN4352_c0_g3_i1_5	7,34E-45	147	XP_008368986.1	heat shock factor-binding protein 1-like	Malus domestica	XP_012082726.1
ARHOMBI_DN5282_c0_g1_i1_5	0	674	KYP54525.1	hypothetical protein KK1_000715	Cajanus cajan	XP_020227385.1
ARHOMBI_DN5162_c0_g1_i1_6	1,05E-155	439	XP_018849247.1	ribulose-phosphate 3-epimerase, cytoplasmic isoform	Juglans regia	XP_008379127.1

ARHOMBI_DN1661_c0_g1_i1_5	0	517	XP_018818507.1	14-3-3-like protein GF14 iota isoform X1	Juglans regia	XP_018852339.1
ARUBRA_DN4331_c0_g1_i1_1	3,92E-89	266	XP_018855792.1	probable calcium-binding protein CML27	Juglans regia	XP_018810240.1
ARHOMBI_DN5855_c0_g1_i1_3	0	819	XP_018849803.1	alpha-glucan phosphorylase, H isozyme	Juglans regia	OAY57768.1
ARUBRA_DN19380_c0_g2_i1_4	2,75E-127	364	OAY54996.1	hypothetical protein MANES_03G119600	Manihot esculenta	XP_018823733.1
ARUBRA_DN337_c0_g2_i1_5	4,20E-138	399	XP_018856023.1	ribosome-recycling factor, chloroplastic isoform X2	Juglans regia	XP_018856017.1
ARUBRA_DN4321_c0_g2_i1_1	0	1333	KDP29157.1	hypothetical protein JCGZ_16546	Jatropha curcas	AHA83580.1
ARUBRA_DN1238_c0_g1_i1_5	0	927	XP_018838281.1	V-type proton ATPase catalytic subunit A	Juglans regia	KDP25051.1
ARHOMBI_DN4982_c0_g1_i1_1	0	886	XP_008394248.1	guanosine nucleotide diphosphate dissociation inhibitor 2	Malus domestica	OAY58939.1
ARHOMBI_DN4944_c0_g1_i1_3	1,09E-160	456	XP_018832945.1	peptidyl-prolyl cis-trans isomerase A1 isoform X1	Juglans regia	XP_018832946.1
ARUBRA_DN1865_c0_g1_i1_1	0	861	XP_018811769.1	aspartate aminotransferase, cytoplasmic	Juglans regia	XP_008220042.1
ARUBRA_DN7363_c0_g1_i1_1	0	513	XP_018838677.1	inositol-phosphate phosphatase-like	Juglans regia	KDP32911.1
ARHOMBI_DN6048_c0_g1_i2_2	0	529	XP_018823093.1	carbonic anhydrase 2-like	Juglans regia	KDP45339.1
ARHOMBI_DN5714_c0_g2_i1_1	0	677	XP_018855304.1	phosphoserine aminotransferase 1, chloroplastic-like	Juglans regia	AGF95094.1
ARUBRA_DN11957_c0_g1_i1_4	2,96E-46	159	XP_018842710.1	probable pectinesterase/pectinesterase inhibitor 51	Juglans regia	XP_018860059.1
ARUBRA_DN26276_c0_g1_i1_1	2,85E-46	155	XP_008237059.1	LOW QUALITY PROTEIN: protein trichome birefringence-like 12	Prunus mume	ONH90835.1
ARUBRA_DN5081_c0_g1_i1_6	3,25E-133	384	XP_018818327.1	guanosine nucleotide diphosphate dissociation inhibitor At5g09550	Juglans regia	OAY45180.1
ARUBRA_DN11233_c0_g1_i1_2	2,25E-27	108	KDP25957.1	hypothetical protein JCGZ_22947	Jatropha curcas	XP_012086291.1
ARHOMBI_DN5854_c0_g1_i1_3	0	819	XP_018832184.1	uncharacterized protein LOC108999736	Juglans regia	XP_018821522.1
ARHOMBI_DN6063_c0_g1_i1_4	4,96E-86	258	XP_018822894.1	uncharacterized protein LOC108992718	Juglans regia	XP_018850381.1
ARHOMBI_DN2876_c0_g2_i1_3	0	534	XP_018855478.1	probable L-ascorbate peroxidase 6, chloroplastic isoform X1	Juglans regia	XP_008219619.1
ARUBRA_DN22470_c0_g1_i1_3	4,52E-29	112	XP_018811384.1	protein kinase PVPK-1-like	Juglans regia	XP_018811385.1
ARHOMBI_DN3221_c0_g1_i1_3	4,50E-180	505	ABW06959.1	isopentenyl pyrophosphate isomerase	Corylus avellana	XP_018815655.1
ARUBRA_DN4811_c0_g2_i1_3	4,70E-135	388	XP_018819317.1	proactivator polypeptide-like 1	Juglans regia	XP_018819318.1
ARUBRA_DN1006_c1_g1_i1_5	6,64E-76	229	XP_008354935.1	uncharacterized protein LOC103418606	Malus domestica	XP_018805179.1
ARHOMBI_DN15853_c0_g1_i1_3	1,03E-166	472	XP_018838097.1	3-hydroxyisobutyryl-CoA hydrolase-like protein 3, mitochondrial isoform X3	Juglans regia	XP_018838098.1
ARHOMBI_DN15373_c0_g1_i1_5	0	941	XP_018823509.1	leucine aminopeptidase 1-like	Juglans regia	XP_018810862.1
ARUBRA_DN10605_c0_g1_i1_2	2,08E-118	346	XP_018843013.1	NPL4-like protein 1	Juglans regia	XP_012092346.1
ARUBRA_DN10035_c0_g1_i1_2	5,86E-96	303	XP_018805582.1	subtilisin-like protease SBT6.1 isoform X4	Juglans regia	XP_018805579.1
ARUBRA_DN9263_c0_g1_i1_6	1,84E-30	107	XP_018842089.1	basic blue protein-like	Juglans regia	XP_008218855.1
ARUBRA_DN10200_c0_g1_i1_2	0	543	XP_018850910.1	bifunctional epoxide hydrolase 2-like	Juglans regia	ONI17394.1
ARUBRA_DN7621_c0_g1_i1_2	3,93E-115	339	XP_018841836.1	protein SLOW GREEN 1, chloroplastic	Juglans regia	OAY39056.1

ARUBRA_DN1568_c0_g2_i1_4	3,07E-95	278	XP_018813840.1	ferredoxin, root R-B1-like	Juglans regia	ONI01252.1
ARUBRA_DN3840_c0_g1_i1_2	0	933	XP_018844173.1	peptidyl-prolyl cis-trans isomerase FKBP62-like isoform X1	Juglans regia	XP_018844174.1
ARUBRA_DN4409_c0_g1_i1_6	0	830	XP_008234243.1	tubulin beta-1 chain	Prunus mume	XP_009371335.1
ARUBRA_DN4436_c0_g1_i1_5	2,48E-67	210	KDP45728.1	hypothetical protein JCGZ_17335	Jatropha curcas	XP_020537678.1
ARHOMBI_DN5595_c0_g1_i1_6	7,11E-174	488	XP_018839416.1	perakine reductase-like	Juglans regia	KHN02754.1
ARUBRA_DN4227_c1_g2_i1_2	5,35E-60	186	ONI27924.1	hypothetical protein PRUPE_1G111200	Prunus persica	ONI27925.1
ARHOMBI_DN4937_c0_g3_i1_5	7,72E-53	170	XP_018821061.1	subtilisin-like protease SBT3.17	Juglans regia	XP_015953072.1
ARUBRA_DN143_c0_g2_i1_4	0	792	XP_018837598.1	alpha-glucan phosphorylase, H isozyme-like isoform X1	Juglans regia	XP_018837601.1
ARHOMBI_DN21168_c0_g1_i1_5	1,15E-43	150	XP_018832214.1	villin-4-like	Juglans regia	XP_018832215.1
ARHOMBI_DN4920_c0_g1_i1_6	0	1110	XP_018839329.1	methylenetetrahydrofolate reductase 2-like	Juglans regia	XP_018858229.1
ARUBRA_DN26231_c0_g1_i1_1	7,15E-42	145	XP_008237316.1	LOW QUALITY PROTEIN: dihydrolipoyllysine-residue acetyltransferase component 5 of pyruvate dehydrogenase complex, chloroplastic	Prunus mume	XP_009345952.1
ARUBRA_DN304_c0_g1_i1_5	1,08E-176	498	XP_018806446.1	uncharacterized protein LOC108980071 isoform X2	Juglans regia	XP_018806435.1
ARUBRA_DN3080_c0_g1_i1_1	0	1266	XP_018856789.1	transketolase, chloroplastic-like	Juglans regia	XP_018848062.1
ARUBRA_DN10173_c0_g1_i1_6	0	591	XP_018849818.1	malate dehydrogenase, mitochondrial	Juglans regia	KDP32500.1
ARHOMBI_DN1063_c0_g2_i1_1	0	1140	XP_018851707.1	phospholipase D alpha 1	Juglans regia	XP_018850650.1
ARHOMBI_DN4718_c0_g1_i1_2	0	541	XP_018848890.1	activator of 90 kDa heat shock protein ATPase homolog	Juglans regia	XP_018809717.1
ARUBRA_DN4883_c0_g1_i1_3	1,46E-176	494	XP_018818651.1	40S ribosomal protein S3a-like	Juglans regia	XP_018826766.1
ARUBRA_DN4330_c0_g2_i1_4	1,34E-29	107	OAY45213.1	hypothetical protein MANES_07G041500	Manihot esculenta	KDP29995.1
ARHOMBI_DN5519_c0_g1_i2_6	2,83E-103	297	AAZ32851.1	pentameric polyubiquitin, partial	Medicago sativa	AAZ32851.1
ARHOMBI_DN5140_c0_g1_i2_1	4,25E-46	152	ACU16188.1	unknown	Glycine max	NP_001235503.1
ARHOMBI_DN6061_c0_g1_i1_5	2,74E-98	288	XP_018819438.1	nucleoside diphosphate kinase B	Juglans regia	ADB85102.1
ARHOMBI_DN1760_c0_g1_i1_4	9,37E-136	397	XP_018820845.1	xylose isomerase	Juglans regia	KDP43806.1
ARUBRA_DN16482_c0_g1_i1_1	2,79E-88	272	XP_018826631.1	phosphoglucomutase, cytoplasmic-like	Juglans regia	XP_018826632.1
ARUBRA_DN4585_c0_g2_i2_2	0	563	XP_018811421.1	polyadenylate-binding protein RBP45C-like	Juglans regia	XP_018824161.1
ARUBRA_DN4349_c0_g1_i1_5	0	975	XP_018829538.1	pyrophosphate--fructose 6-phosphate 1-phosphotransferase subunit beta	Juglans regia	XP_018836262.1
ARHOMBI_DN5054_c0_g1_i1_1	0	647	XP_018836922.1	coatomer subunit gamma-2-like	Juglans regia	XP_018847842.1
ARUBRA_DN18216_c0_g1_i1_2	2,78E-79	244	XP_018827577.1	SAL1 phosphatase-like isoform X2	Juglans regia	OAY36111.1
ARHOMBI_DN3394_c0_g1_i1_1	3,26E-153	438	XP_018833512.1	hydroxyacylglutathione hydrolase cytoplasmic	Juglans regia	XP_019430954.1
ARHOMBI_DN20977_c0_g1_i1_5	1,66E-59	185	KYP48129.1	Rho GDP-dissociation inhibitor 1	Cajanus cajan	XP_020234344.1

ARHOMBI_DN6641_c0_g2_i1_5	0	513	XP_018815367.1	NADP-dependent D-sorbitol-6-phosphate dehydrogenase-like	Juglans regia	OAY52428.1
ARHOMBI_DN5627_c0_g2_i1_2	1,22E-33	116	XP_008223181.1	heat shock factor-binding protein 1	Prunus mume	ONI28303.1
ARHOMBI_DN2280_c0_g1_i1_6	4,79E-163	459	AFK33699.1	unknown	Lotus japonicus	KDP21376.1
ARHOMBI_DN5380_c0_g1_i1_2	0	543	XP_018815161.1	peroxisomal fatty acid beta-oxidation multifunctional protein AIM1	Juglans regia	OAY53774.1
ARUBRA_DN6789_c0_g1_i1_6	8,47E-12	63,5	XP_018827113.1	mitochondrial import receptor subunit TOM9-2-like	Juglans regia	XP_008235602.1
ARUBRA_DN17519_c0_g1_i1_3	6,27E-57	183	XP_018847246.1	desiccation-related protein PCC13-62-like	Juglans regia	XP_018855451.1
ARHOMBI_DN940_c0_g1_i1_3	3,90E-35	124	ABR13309.1	putative ATPDIL1-4 electron transporter, partial	Prunus dulcis	XP_018819528.1
ARHOMBI_DN2154_c0_g1_i1_4	2,78E-80	240	OAY55416.1	hypothetical protein MANES_03G152300	Manihot esculenta	AAT84459.1
ARHOMBI_DN16490_c0_g1_i1_2	0	519	XP_018827473.1	D-3-phosphoglycerate dehydrogenase 1, chloroplastic-like	Juglans regia	XP_018851254.1
ARHOMBI_DN6177_c0_g2_i1_3	1,09E-27	104	CAC39160.1	putative LEA III protein isoform 1	Corylus avellana	CAC39110.1
ARHOMBI_DN24802_c0_g1_i1_2	2,88E-47	159	XP_018838095.1	3-hydroxyisobutyryl-CoA hydrolase-like protein 3, mitochondrial isoform X1	Juglans regia	KHN16590.1
ARUBRA_DN18898_c0_g1_i1_2	4,01E-84	249	XP_018854928.1	ubiquitin-40S ribosomal protein S27a-like	Juglans regia	XP_018805239.1
ARUBRA_DN10159_c0_g1_i1_5	0	743	XP_018814614.1	probable mitochondrial-processing peptidase subunit beta, mitochondrial isoform X2	Juglans regia	XP_018814613.1
ARUBRA_DN147_c0_g1_i1_6	1,19E-81	257	ONH99280.1	hypothetical protein PRUPE_6G022600	Prunus persica	XP_018807473.1
ARHOMBI_DN5600_c0_g1_i1_6	0	958	XP_018812243.1	hsp70-Hsp90 organizing protein 3-like isoform X2	Juglans regia	XP_018812243.1
ARUBRA_DN18800_c0_g2_i1_4	3,02E-178	499	XP_018835592.1	probable carboxylesterase 5	Juglans regia	KDP45172.1
ARHOMBI_DN4017_c0_g1_i1_1	1,17E-122	374	XP_018807473.1	uncharacterized protein LOC108980890	Juglans regia	KDP22063.1
ARUBRA_DN4582_c0_g1_i1_5	5,36E-146	415	XP_018822871.1	strigolactone esterase D14	Juglans regia	XP_018838099.1
ARUBRA_DN1643_c0_g2_i1_1	1,27E-94	281	XP_018809730.1	probable protein phosphatase 2C 76	Juglans regia	XP_018809734.1
ARUBRA_DN5911_c0_g1_i1_4	2,31E-104	306	XP_009351382.2	nudix hydrolase 26, chloroplastic-like	Pyrus x bretschneideri	XP_009351383.2
ARUBRA_DN3180_c0_g1_i1_4	3,87E-155	441	XP_018810444.1	peptide methionine sulfoxide reductase A1-like	Juglans regia	KHN38281.1
ARHOMBI_DN12129_c0_g1_i1_2	8,52E-89	264	XP_018849964.1	monothiol glutaredoxin-S10-like	Juglans regia	ONH93069.1
ARHOMBI_DN4888_c0_g1_i1_6	7,16E-69	219	XP_018824378.1	UDP-glucose 4-epimerase GEPI48	Juglans regia	XP_018857524.1
ARUBRA_DN6309_c0_g1_i1_5	0	514	XP_018839910.1	40S ribosomal protein SA-like	Juglans regia	XP_018839250.1
ARUBRA_DN3885_c0_g1_i1_5	6,99E-75	227	XP_018827114.1	uncharacterized protein LOC108995901	Juglans regia	XP_018807876.1
ARHOMBI_DN667_c0_g2_i1_1	5,17E-50	158	XP_018830562.1	tropinone reductase homolog At5g06060-like	Juglans regia	XP_018841297.1
ARUBRA_DN18848_c0_g1_i1_3	2,73E-71	218	XP_018811596.1	uncharacterized protein At4g28440-like	Juglans regia	KDP21003.1
ARUBRA_DN4554_c0_g1_i1_4	2,62E-114	335	OAY46654.1	hypothetical protein MANES_06G016600	Manihot esculenta	XP_008218606.1
ARUBRA_DN9538_c0_g1_i1_1	3,92E-79	240	OAY27120.1	hypothetical protein MANES_16G101100	Manihot esculenta	ONH97761.1

ARHOMBI_DN4282_c0_g1_i1_5	2,73E-160	456	XP_018829808.1	probable UDP-arabinopyranose mutase 5 isoform X1	Juglans regia	XP_018829809.1
ARHOMBI_DN22144_c0_g1_i1_6	1,10E-72	226	XP_008220716.1	serpin-ZX	Prunus mume	XP_016647842.1
ARUBRA_DN3174_c0_g1_i1_1	7,24E-125	363	XP_018834430.1	ATP synthase subunit O, mitochondrial-like	Juglans regia	XP_008231281.1
ARHOMBI_DN19334_c0_g1_i1_6	3,62E-34	126	XP_018823042.1	proton pump-interactor 1-like	Juglans regia	XP_018850614.1
ARHOMBI_DN8571_c0_g1_i1_5	4,39E-138	400	XP_018848542.1	selenium-binding protein 2-like	Juglans regia	XP_018844057.1
ARUBRA_DN4684_c0_g2_i1_5	0	615	XP_018859983.1	glyceraldehyde-3-phosphate dehydrogenase 2, cytosolic-like	Juglans regia	XP_019434027.1
ARHOMBI_DN1355_c0_g2_i1_2	1,27E-138	395	XP_019426063.1	ras-related protein RABC1	Lupinus angustifolius	XP_016650847.1
ARUBRA_DN15624_c0_g1_i1_4	2,13E-21	85,5	XP_008237502.1	phytosulfokines 3-like	Prunus mume	XP_018857368.1
ARUBRA_DN2409_c0_g2_i1_4	1,08E-131	381	XP_018821858.1	ferritin-3, chloroplastic	Juglans regia	OAY46317.1
ARHOMBI_DN5337_c0_g1_i1_4	5,92E-112	323	XP_018857107.1	60S ribosomal protein L11	Juglans regia	OAY26364.1
ARHOMBI_DN6227_c0_g1_i4_5	2,25E-99	297	XP_020995365.1	glutathione S-transferase U17-like	Arachis duranensis	XP_020995366.1
ARHOMBI_DN4176_c0_g1_i1_6	0	528	XP_018838600.1	protein SGT1 homolog	Juglans regia	XP_020540786.1
ARUBRA_DN22728_c0_g1_i1_2	0	605	XP_018822554.1	probable fructokinase-4	Juglans regia	XP_018839987.1
ARUBRA_DN18837_c0_g1_i1_3	4,36E-89	270	XP_018847175.1	heterogeneous nuclear ribonucleoprotein 1-like	Juglans regia	XP_018847175.1
ARHOMBI_DN6122_c0_g1_i1_5	0	652	XP_018850207.1	60S ribosomal protein L4-like	Juglans regia	XP_018822731.1
ARHOMBI_DN6266_c0_g2_i3_6	0	540	XP_018844177.1	non-functional NADPH-dependent codeinone reductase 2-like isoform X1	Juglans regia	ONI30338.1
ARUBRA_DN4148_c0_g1_i1_5	2,32E-141	401	OAY32771.1	hypothetical protein MANES_13G044600	Manihot esculenta	XP_018840734.1
ARHOMBI_DN15512_c0_g1_i1_6	8,03E-142	410	XP_018812075.1	glucan endo-1,3-beta-glucosidase 13-like	Juglans regia	XP_018812083.1
ARHOMBI_DN6104_c0_g1_i1_6	5,16E-102	301	XP_008239677.1	germin-like protein subfamily T member 2	Prunus mume	ONI08515.1
ARUBRA_DN4076_c0_g1_i1_5	0	593	XP_018844149.1	cytochrome b561 and DOMON domain-containing protein At3g25290-like	Juglans regia	XP_018827547.1
ARHOMBI_DN6065_c0_g3_i2_6	2,68E-66	207	XP_018846260.1	putative methyltransferase DDB_G0268948	Juglans regia	XP_018838664.1
ARUBRA_DN4576_c0_g1_i1_2	4,10E-20	94	XP_018848770.1	uncharacterized protein At5g39570-like	Juglans regia	XP_018848770.1
ARHOMBI_DN3224_c0_g1_i1_2	1,15E-79	247	XP_018807734.1	probable proteasome inhibitor isoform X1	Juglans regia	XP_008240153.1
ARHOMBI_DN6597_c0_g1_i1_6	5,86E-135	384	KDP22561.1	hypothetical protein JCGZ_26392	Jatropha curcas	XP_012090621.1
ARUBRA_DN16167_c0_g1_i1_3	5,95E-88	266	XP_018809730.1	probable protein phosphatase 2C 76	Juglans regia	XP_018809734.1
ARHOMBI_DN4850_c0_g1_i1_5	8,15E-84	251	XP_018814658.1	40S ribosomal protein S14-3-like	Juglans regia	XP_018814659.1
ARHOMBI_DN641_c0_g1_i1_6	6,00E-105	317	OAY46075.1	hypothetical protein MANES_07G114800	Manihot esculenta	OAY38641.1
ARUBRA_DN9455_c0_g1_i1_2	4,87E-157	444	XP_018841431.1	5'-methylthioadenosine/S-adenosylhomocysteine nucleosidase 2-like isoform X1	Juglans regia	XP_018815344.1
ARUBRA_DN4936_c0_g1_i1_3	5,14E-101	295	XP_020996771.1	SKP1-like protein 1B	Arachis duranensis	XP_018820076.1
ARUBRA_DN11512_c0_g1_i1_6	7,87E-101	293	XP_018820822.1	(DL)-glycerol-3-phosphatase 2	Juglans regia	GAU35204.1

ARHOMBI_DN13390_c0_g1_i1_2	5,28E-54	178	XP_018847175.1	heterogeneous nuclear ribonucleoprotein 1-like	Juglans regia	XP_018847175.1
ARUBRA_DN13261_c0_g1_i1_6	1,85E-51	163	XP_018817862.1	thioredoxin M3, chloroplastic-like	Juglans regia	XP_004505233.1
ARUBRA_DN7781_c0_g1_i1_6	2,80E-52	172	XP_018806990.1	lipoamide acyltransferase component of branched-chain alpha-keto acid dehydrogenase complex, mitochondrial-like, partial	Juglans regia	XP_018815726.1
ARHOMBI_DN15181_c0_g1_i1_3	9,48E-100	299	XP_018820845.1	xylose isomerase	Juglans regia	XP_008223675.1
ARUBRA_DN4108_c0_g1_i1_4	0	519	XP_018826881.1	soluble inorganic pyrophosphatase 6, chloroplastic-like	Juglans regia	XP_018844455.1
ARHOMBI_DN2905_c0_g1_i1_2	4,79E-117	339	XP_018860721.1	glutathione S-transferase DHAR2-like	Juglans regia	XP_018860724.1
ARUBRA_DN4026_c0_g1_i1_5	0	1216	XP_018836580.1	aminopeptidase M1-like	Juglans regia	XP_018836577.1
ARHOMBI_DN6235_c0_g1_i4_4	0	990	XP_018836411.1	catalase isozyme 1	Juglans regia	XP_008237987.1
ARUBRA_DN25569_c0_g1_i1_3	2,24E-65	200	XP_018815728.1	acylpyruvase FAHD1, mitochondrial-like	Juglans regia	XP_008223221.1
ARUBRA_DN4711_c0_g1_i2_5	3,98E-156	442	KOM38842.1	hypothetical protein LR48_Vigan03g222400	Vigna angularis	KYP70609.1
ARUBRA_DN2993_c0_g1_i1_2	1,26E-137	391	XP_018827511.1	uncharacterized protein LOC108996194	Juglans regia	KDP45917.1
ARUBRA_DN3089_c0_g2_i1_6	0	521	XP_018823011.1	mitochondrial outer membrane protein porin of 34 kDa	Juglans regia	XP_018835940.1
ARUBRA_DN8636_c0_g1_i1_1	1,13E-74	226	OAY23502.1	hypothetical protein MANES_18G083200	Manihot esculenta	XP_018839074.1
ARHOMBI_DN4932_c0_g1_i1_1	0	551	OAY47507.1	hypothetical protein MANES_06G084900	Manihot esculenta	XP_018824861.1
ARUBRA_DN5237_c0_g1_i1_6	1,22E-164	461	XP_018844535.1	40S ribosomal protein S3-3-like	Juglans regia	XP_018827015.1
ARUBRA_DN4540_c0_g1_i2_6	8,86E-150	431	KRH43862.1	hypothetical protein GLYMA_08G175900	Glycine max	XP_018837398.1
ARUBRA_DN830_c0_g1_i1_6	2,35E-102	306	OAY56156.1	hypothetical protein MANES_03G206800	Manihot esculenta	OAY27625.1
ARHOMBI_DN5602_c0_g2_i1_1	0	1678	XP_018845356.1	calcium-transporting ATPase 2, plasma membrane-type-like isoform X1	Juglans regia	XP_018845357.1
ARHOMBI_DN6202_c0_g1_i2_4	0	662	XP_018844468.1	serine carboxypeptidase-like 40	Juglans regia	ONI20592.1
ARUBRA_DN2984_c0_g1_i2_6	3,44E-44	149	XP_004513370.1	protein EARLY RESPONSIVE TO DEHYDRATION 15-like isoform X1	Cicer arietinum	XP_004513371.1
ARUBRA_DN6258_c0_g1_i1_5	0	781	XP_018832881.1	staphylococcal nuclease domain-containing protein 1-like	Juglans regia	XP_018832881.1
ARUBRA_DN1424_c0_g2_i1_3	0	960	KDP23377.1	hypothetical protein JCGZ_23210	Jatropha curcas	XP_012088873.1
ARHOMBI_DN6163_c0_g1_i2_6	1,69E-133	384	XP_018840931.1	60S ribosomal protein L7-2-like	Juglans regia	XP_018840932.1
ARHOMBI_DN2855_c0_g1_i1_2	1,41E-113	332	KDP39216.1	hypothetical protein JCGZ_00973	Jatropha curcas	XP_012070941.1
ARHOMBI_DN4907_c0_g3_i3_4	1,77E-110	321	XP_016193057.1	eukaryotic translation initiation factor 5A-2	Arachis ipaensis	XP_015943065.1
ARUBRA_DN20327_c0_g1_i1_5	0	719	XP_018830726.1	phosphoglucomutase, chloroplastic	Juglans regia	OIV91473.1
ARHOMBI_DN3004_c0_g1_i1_6	0	572	XP_018844904.1	aldehyde dehydrogenase family 7 member A1 isoform X1	Juglans regia	XP_018844905.1
ARUBRA_DN20570_c0_g1_i1_4	7,54E-140	402	XP_018816369.1	uncharacterized protein At1g03900-like isoform X1	Juglans regia	XP_018816370.1

ARHOMBI_DN4754_c0_g1_i1_5	0	935	XP_018833268.1	glucose-1-phosphate adenylyltransferase small subunit, chloroplastic/amyloplastic	Juglans regia	AES71731.1
ARUBRA_DN2276_c0_g1_i1_5	1,76E-52	168	XP_018814019.1	uncharacterized protein LOC108985979	Juglans regia	XP_018820585.1
ARHOMBI_DN6055_c0_g1_i1_6	6,34E-66	204	XP_008387404.1	40S ribosomal protein S10-1-like	Malus domestica	XP_008392399.1
ARHOMBI_DN1472_c0_g1_i1_6	0	650	XP_018817568.1	probable ADP-ribosylation factor GTPase-activating protein AGD9 isoform X1	Juglans regia	XP_018817570.1
ARUBRA_DN2452_c0_g2_i1_2	3,95E-138	395	XP_009372980.1	40S ribosomal protein S6	Pyrus x bretschneideri	XP_008386113.1
ARUBRA_DN4724_c0_g1_i1_5	5,38E-98	286	AGV54677.1	eukaryotic translation initiation factor 5A	Phaseolus vulgaris	XP_008394324.1
ARHOMBI_DN7816_c0_g1_i1_3	3,85E-136	391	KDP28756.1	hypothetical protein JCGZ_14527	Jatropha curcas	XP_012083577.1
ARHOMBI_DN4989_c0_g1_i1_1	0	575	XP_018809432.1	mitochondrial dicarboxylate/tricarboxylate transporter DTC-like	Juglans regia	OAY54741.1
ARUBRA_DN8722_c0_g1_i1_2	2,79E-41	146	XP_008225664.2	reticuline oxidase-like protein	Prunus mume	ONI11277.1
ARUBRA_DN19739_c0_g2_i1_3	0	510	XP_018835577.1	probable carboxylesterase 12	Juglans regia	XP_008236606.1
ARUBRA_DN5052_c0_g1_i2_2	1,79E-101	299	XP_018819193.1	cinnamoyl-CoA reductase 1	Juglans regia	ONH99807.1
ARHOMBI_DN19084_c0_g1_i1_5	5,15E-93	284	OAY57066.1	hypothetical protein MANES_02G067800	Manihot esculenta	XP_008230399.1
ARHOMBI_DN4789_c0_g1_i1_3	0	942	XP_018814251.1	dihydrolipoyl dehydrogenase 1, mitochondrial	Juglans regia	XP_018814252.1
ARUBRA_DN14251_c0_g1_i1_2	1,06E-76	233	XP_018818800.1	probable 6-phosphogluconolactonase 4, chloroplastic	Juglans regia	XP_018842795.1
ARUBRA_DN1618_c0_g1_i1_5	4,36E-95	305	XP_018817298.1	protein transport protein SEC31 homolog B-like isoform X2	Juglans regia	XP_018817293.1
ARHOMBI_DN277_c0_g1_i1_2	7,12E-54	171	XP_018852574.1	UPF0587 protein C1orf123 homolog	Juglans regia	XP_007160977.1
ARUBRA_DN4780_c0_g3_i1_6	0	861	CAB66336.1	alpha-tubulin	Betula pendula	KRH62139.1
ARHOMBI_DN4043_c0_g1_i1_2	1,80E-65	198	AFU10994.1	HSP70, partial	Malus zumi	XP_016187299.1
ARUBRA_DN4785_c0_g1_i3_6	0	646	XP_018829145.1	ankyrin repeat domain-containing protein 2B-like	Juglans regia	XP_018841596.1
ARHOMBI_DN5765_c0_g1_i1_5	1,33E-112	325	XP_018836279.1	uncharacterized protein LOC109002826	Juglans regia	XP_018836280.1
ARHOMBI_DN4921_c0_g1_i1_3	0	791	XP_018817834.1	stromal 70 kDa heat shock-related protein, chloroplastic-like	Juglans regia	XP_018817839.1
ARUBRA_DN4799_c0_g1_i1_4	4,45E-49	159	XP_018838679.1	cysteine proteinase inhibitor 5	Juglans regia	XP_014508270.1
ARUBRA_DN2524_c0_g1_i1_6	8,08E-67	217	XP_018831924.1	aconitate hydratase, cytoplasmic-like, partial	Juglans regia	XP_018848484.1
ARUBRA_DN830_c1_g1_i1_2	2,25E-133	388	XP_018825758.1	galactokinase-like isoform X1	Juglans regia	XP_018825759.1
ARUBRA_DN5581_c0_g1_i1_2	5,84E-93	278	XP_018844008.1	protein FATTY ACID EXPORT 1, chloroplastic-like	Juglans regia	XP_018847055.1
ARUBRA_DN18248_c0_g1_i1_4	1,23E-61	191	XP_018813170.1	vesicle-associated protein 1-2-like	Juglans regia	XP_008377496.1
ARHOMBI_DN15811_c0_g1_i1_3	1,89E-70	224	KDP47143.1	hypothetical protein JCGZ_22139	Jatropha curcas	XP_012067521.1
ARHOMBI_DN5696_c0_g1_i1_3	0	507	XP_018860017.1	60S ribosomal protein L8-1-like	Juglans regia	XP_018855871.1
ARHOMBI_DN6039_c0_g1_i3_2	1,88E-106	308	KDP44051.1	hypothetical protein JCGZ_05518	Jatropha curcas	XP_012064820.1

ARHOMBI_DN787_c0_g2_i1_5	0	577	XP_020221626.1	ferredoxin--NADP reductase, root isozyme, chloroplastic isoform X1	Cajanus cajan	XP_020221627.1
ARUBRA_DN19178_c0_g1_i1_4	1,45E-95	281	XP_018816977.1	40S ribosomal protein S19-3	Juglans regia	KHN12325.1
ARUBRA_DN202_c0_g1_i1_3	0	755	XP_018843179.1	fructose-bisphosphate aldolase 3, chloroplastic	Juglans regia	OAY31394.1
ARHOMBI_DN5950_c0_g1_i1_2	0	865	XP_018839429.1	ATP sulfurylase 1, chloroplastic	Juglans regia	XP_018818643.1
ARHOMBI_DN2248_c0_g1_i1_5	2,94E-158	445	KHN18718.1	Pyruvate kinase, cytosolic isozyme	Glycine soja	XP_018805935.1
ARUBRA_DN11411_c0_g1_i1_4	2,81E-113	324	XP_018815940.1	60S ribosomal protein L18-2	Juglans regia	XP_018841792.1
ARUBRA_DN17927_c0_g1_i1_6	3,57E-144	412	XP_018807368.1	probable ATP synthase 24 kDa subunit, mitochondrial isoform X2	Juglans regia	XP_018807367.1
ARHOMBI_DN5374_c1_g1_i1_6	0	674	OAY42321.1	hypothetical protein MANES_09G170700	Manihot esculenta	OAY44035.1
ARUBRA_DN763_c0_g1_i1_4	5,75E-89	264	KDP33752.1	hypothetical protein JCGZ_07323	Jatropha curcas	XP_012076803.1
ARUBRA_DN2819_c0_g1_i1_3	1,26E-39	137	XP_018830611.1	carboxylesterase 1-like	Juglans regia	ONI25181.1
ARUBRA_DN4688_c0_g1_i1_1	0	810	XP_018841811.1	aconitate hydratase, cytoplasmic isoform X1	Juglans regia	XP_018841812.1
ARHOMBI_DN4778_c0_g1_i1_3	0	689	XP_018847873.1	serine-threonine kinase receptor-associated protein-like	Juglans regia	XP_016179643.1
ARHOMBI_DN777_c0_g1_i1_1	2,18E-07	53,9	AGC51777.1	dehydrin protein	Manihot esculenta	OAY50493.1
ARHOMBI_DN18025_c0_g1_i1_2	9,83E-102	299	XP_018813211.1	uncharacterized protein LOC108985386 isoform X1	Juglans regia	AFK37701.1
ARHOMBI_DN5069_c0_g2_i1_3	0	776	XP_018827302.1	succinate--CoA ligase ADP-forming subunit beta, mitochondrial	Juglans regia	XP_018847166.1
ARUBRA_DN4080_c0_g1_i1_6	1,83E-26	100	XP_018846356.1	profilin-1	Juglans regia	AAK01235.1
ARUBRA_DN19946_c0_g1_i1_3	5,25E-115	331	XP_015961744.1	60S ribosomal protein L10	Arachis duranensis	AFK38655.1
ARUBRA_DN4991_c0_g1_i1_6	0	776	XP_018814264.1	phosphomethylethanolamine N-methyltransferase-like	Juglans regia	XP_018857980.1
ARHOMBI_DN17727_c0_g1_i1_3	0	796	XP_018845060.1	coatomer subunit beta'-2-like	Juglans regia	XP_018845914.1
ARHOMBI_DN4645_c0_g2_i1_4	0	944	XP_018852509.1	puromycin-sensitive aminopeptidase isoform X2	Juglans regia	XP_018852512.1
ARHOMBI_DN2411_c0_g1_i1_5	0	714	XP_018810822.1	T-complex protein 1 subunit theta	Juglans regia	GAU30876.1
ARUBRA_DN4641_c0_g2_i1_2	0	1205	OAY58361.1	hypothetical protein MANES_02G171300	Manihot esculenta	BAT95374.1
ARHOMBI_DN1922_c0_g1_i1_3	1,59E-139	395	XP_018841531.1	metal-independent phosphoserine phosphatase-like	Juglans regia	XP_018841533.1
ARUBRA_DN17998_c0_g1_i1_1	4,39E-133	391	ONH98173.1	hypothetical protein PRUPE_7G233700	Prunus persica	ONH98172.1
ARHOMBI_DN5775_c0_g1_i1_2	0	612	XP_018813719.1	cysteine proteinase COT44-like	Juglans regia	XP_018845023.1
ARUBRA_DN5604_c0_g1_i1_1	1,38E-95	281	XP_018836470.1	ATP synthase subunit d, mitochondrial-like	Juglans regia	XP_018858751.1
ARUBRA_DN4856_c0_g1_i2_3	1,13E-22	93,2	AER13137.1	DHN1	Corylus avellana	ACU15585.1
ARHOMBI_DN478_c0_g2_i1_6	0	551	XP_018839634.1	S-formylglutathione hydrolase	Juglans regia	KDP26090.1
ARHOMBI_DN5072_c0_g1_i1_5	1,46E-141	404	AFH08811.1	chloroplast Mn-superoxide dismutase 1A-c	Prunus persica	AFH08818.1
ARUBRA_DN162_c0_g1_i1_1	0	583	XP_018845549.1	uncharacterized protein LOC109009507 isoform X2	Juglans regia	XP_018845548.1

ARHOMBI_DN5339_c0_g1_i1_5	0	764	XP_018839373.1	stearoyl-[acyl-carrier-protein 9-desaturase, chloroplastic-like	Juglans regia	XP_018812159.1
ARHOMBI_DN5797_c1_g1_i2_6	7,80E-53	166	XP_018855864.1	probable aldo-keto reductase 2, partial	Juglans regia	XP_008337505.1
ARHOMBI_DN5453_c0_g1_i1_1	0	778	XP_018829125.1	calnexin homolog	Juglans regia	XP_018829196.1
ARHOMBI_DN4158_c0_g1_i1_4	0	724	OAY32695.1	hypothetical protein MANES_13G038500	Manihot esculenta	ONH93092.1
ARHOMBI_DN3362_c0_g1_i1_5	0	869	XP_008221256.1	tubulin beta chain-like	Prunus mume	ONI32387.1
ARUBRA_DN20595_c0_g1_i1_3	0	555	XP_018812010.1	heat shock 70 kDa protein 15-like	Juglans regia	XP_018812011.1
ARUBRA_DN427_c0_g2_i1_5	0	511	XP_008223483.1	S-adenosylmethionine synthase 5	Prunus mume	XP_018833868.1
ARHOMBI_DN19156_c0_g1_i1_5	5,48E-59	189	XP_018827577.1	SAL1 phosphatase-like isoform X2	Juglans regia	XP_018827576.1
ARHOMBI_DN3290_c0_g1_i1_1	4,22E-117	342	XP_018808748.1	adenine phosphoribosyltransferase 1-like	Juglans regia	XP_020212312.1
ARUBRA_DN2245_c0_g2_i1_4	8,22E-122	360	XP_018840769.1	protein disulfide isomerase-like 2-3	Juglans regia	KDP30825.1
ARHOMBI_DN19115_c0_g1_i1_6	1,52E-96	296	XP_018850271.1	chaperonin CPN60-2, mitochondrial-like	Juglans regia	XP_018839307.1
ARHOMBI_DN5316_c0_g1_i1_2	0	561	XP_018810049.1	probable pyridoxal 5'-phosphate synthase subunit PDX1	Juglans regia	XP_018835387.1
ARUBRA_DN8606_c0_g1_i1_1	6,76E-109	324	XP_018850665.1	elongation factor 1-gamma-like	Juglans regia	XP_020221597.1
ARHOMBI_DN5381_c0_g1_i1_4	1,84E-96	278	XP_008218349.1	60S ribosomal protein L23	Prunus mume	XP_008224171.1
ARUBRA_DN43_c0_g2_i1_6	5,30E-37	127	XP_009354123.1	peamaclein-like isoform X1	Pyrus x bretschneideri	XP_008377985.1
ARHOMBI_DN3956_c0_g1_i1_1	2,10E-164	469	XP_018820730.1	cationic peroxidase 1-like	Juglans regia	XP_009373126.1
ARUBRA_DN609_c0_g1_i1_6	0	820	OAY54743.1	hypothetical protein MANES_03G098100	Manihot esculenta	XP_018834544.1
ARUBRA_DN2_c0_g1_i1_4	0	705	XP_008221201.1	24-methylenesterol C-methyltransferase 2	Prunus mume	ONI32296.1
ARUBRA_DN1844_c0_g1_i1_1	6,10E-172	484	XP_018845359.1	mitochondrial outer membrane protein porin 2-like	Juglans regia	XP_018849544.1
ARHOMBI_DN3609_c0_g2_i1_1	1,40E-69	218	XP_018818666.1	perakine reductase-like	Juglans regia	XP_018839416.1
ARHOMBI_DN3185_c0_g1_i1_4	0	607	XP_018843285.1	mitochondrial-processing peptidase subunit alpha-like	Juglans regia	XP_018811090.1
ARUBRA_DN24520_c0_g1_i1_2	5,10E-64	200	XP_020215778.1	heme-binding-like protein At3g10130, chloroplastic	Cajanus cajan	XP_018838204.1
ARUBRA_DN4994_c0_g1_i2_3	3,09E-173	485	OIV90699.1	hypothetical protein TanjilG_15085	Lupinus angustifolius	OIW07225.1
ARUBRA_DN19637_c0_g1_i1_2	0	660	XP_018829691.1	eukaryotic peptide chain release factor GTP-binding subunit ERF3A isoform X2	Juglans regia	XP_018829690.1
ARUBRA_DN18881_c0_g1_i1_2	1,06E-174	490	XP_018841289.1	proteasome subunit alpha type-5-like isoform X1	Juglans regia	XP_018837325.1
ARHOMBI_DN5176_c0_g1_i1_6	7,42E-93	275	XP_018826083.1	peptide methionine sulfoxide reductase B5-like isoform X1	Juglans regia	XP_018826084.1
ARUBRA_DN13710_c0_g1_i1_3	6,14E-91	268	XP_018807334.1	endochitinase EP3-like	Juglans regia	XP_009368176.1
ARUBRA_DN18453_c0_g1_i1_3	3,05E-50	171	XP_018841545.1	ubiquitin domain-containing protein DSK2b-like isoform X4	Juglans regia	XP_018841543.1
ARHOMBI_DN5422_c0_g1_i1_5	0	604	XP_018834985.1	thioredoxin reductase 1-like	Juglans regia	XP_004512292.1

ARHOMBI_DN15946_c0_g1_i1_6	1,57E-110	322	XP_018850456.1	uncharacterized protein LOC109013009	Juglans regia	OAY61203.1
ARHOMBI_DN4424_c0_g1_i1_1	0	738	ADR71240.1	60S ribosomal protein L3B	Hevea brasiliensis	XP_018848152.1
ARUBRA_DN3570_c0_g1_i1_3	9,13E-83	246	XP_018809376.1	60S ribosomal protein L9-like	Juglans regia	XP_018809377.1
ARUBRA_DN2080_c0_g1_i1_2	5,57E-83	261	XP_018850062.1	acyl-CoA-binding domain-containing protein 4	Juglans regia	KEH24514.1
ARUBRA_DN2407_c0_g1_i1_1	0	750	XP_018833171.1	UDP-D-apiose/UDP-D-xylose synthase 2	Juglans regia	XP_008385469.1
ARUBRA_DN6096_c0_g1_i1_5	2,59E-136	388	XP_018813683.1	60S ribosomal protein L10a-like	Juglans regia	CAX02806.1
ARUBRA_DN5878_c0_g1_i1_4	0	961	XP_018845845.1	pyruvate kinase, cytosolic isozyme	Juglans regia	XP_004505347.1
ARUBRA_DN462_c0_g2_i1_3	4,14E-94	279	XP_018815980.1	uncharacterized protein LOC108987512	Juglans regia	XP_008241278.1
ARHOMBI_DN8302_c0_g1_i1_6	6,88E-162	465	OAY60729.1	hypothetical protein MANES_01G134800	Manihot esculenta	GAU40004.1
ARHOMBI_DN6204_c0_g1_i2_1	0	685	XP_018837398.1	ruBisCO large subunit-binding protein subunit beta, chloroplastic	Juglans regia	OAY29001.1
ARUBRA_DN935_c0_g1_i1_4	1,78E-117	340	XP_018819121.1	ATP synthase subunit delta', mitochondrial-like	Juglans regia	XP_018854921.1
ARHOMBI_DN6019_c0_g1_i1_2	1,08E-172	491	XP_018839339.1	uncharacterized protein LOC109005031	Juglans regia	KDP29539.1
ARHOMBI_DN4558_c0_g2_i1_1	0	518	XP_018848751.1	acetyl-CoA acetyltransferase, cytosolic 1 isoform X2	Juglans regia	XP_018848747.1
ARUBRA_DN6207_c0_g1_i1_4	5,29E-104	303	KHN10552.1	40S ribosomal protein S4	Glycine soja	XP_006576177.1
ARUBRA_DN17796_c0_g1_i1_2	0	744	XP_018844405.1	pyruvate dehydrogenase E1 component subunit alpha-1, mitochondrial-like	Juglans regia	KDP21276.1
ARUBRA_DN4392_c0_g3_i1_4	9,12E-180	505	XP_018850794.1	probable protein phosphatase 2C 39	Juglans regia	ONI12649.1
ARUBRA_DN2862_c0_g2_i1_5	2,86E-26	102	XP_018829662.1	probable S-adenosylmethionine-dependent methyltransferase At5g38100	Juglans regia	XP_018829663.1
ARUBRA_DN18480_c0_g1_i1_4	0	601	XP_018848751.1	acetyl-CoA acetyltransferase, cytosolic 1 isoform X2	Juglans regia	XP_018848747.1
ARHOMBI_DN6139_c0_g1_i1_4	1,15E-169	474	XP_018824212.1	proteasome subunit alpha type-4	Juglans regia	XP_008371922.1
ARHOMBI_DN5986_c0_g1_i2_6	8,67E-39	132	ADD69807.1	copper transport protein ATOX1	Hevea brasiliensis	OAY45760.1
ARHOMBI_DN20063_c0_g1_i1_4	1,44E-61	199	XP_018813794.1	ubiquitin receptor RAD23b-like	Juglans regia	XP_009365249.1
ARHOMBI_DN5759_c0_g1_i1_6	4,35E-149	428	XP_018852330.1	60S ribosomal protein L5	Juglans regia	XP_018840429.1
ARHOMBI_DN3534_c0_g1_i1_3	3,49E-107	316	XP_018825826.1	ferritin-3, chloroplastic-like	Juglans regia	XP_008370177.1
ARUBRA_DN11326_c0_g1_i1_6	1,25E-127	360	XP_018808681.1	ubiquitin-fold modifier-conjugating enzyme 1	Juglans regia	KDP41535.1
ARUBRA_DN2423_c0_g1_i1_1	1,22E-124	360	XP_018498100.1	60S ribosomal protein L15-1	Pyrus x bretschneideri	XP_009334550.1
ARUBRA_DN3020_c0_g1_i1_1	9,16E-117	337	XP_018818478.1	cysteine proteinase inhibitor 6-like	Juglans regia	XP_012068733.1
ARUBRA_DN12109_c0_g1_i1_6	1,27E-47	160	XP_018813794.1	ubiquitin receptor RAD23b-like	Juglans regia	XP_016197096.1
ARUBRA_DN16721_c0_g1_i1_2	4,30E-137	395	XP_018846193.1	aminoacyl tRNA synthase complex-interacting multifunctional protein 1 isoform X2	Juglans regia	XP_018846192.1
ARUBRA_DN4896_c0_g1_i1_4	0	533	XP_018841575.1	uncharacterized protein At2g17340-like	Juglans regia	XP_018841576.1
ARHOMBI_DN347_c0_g1_i1_1	0	684	XP_008376628.1	probable polygalacturonase	Malus domestica	ONI18043.1
ARUBRA_DN3353_c0_g1_i1_5	2,81E-81	256	KRH01060.1	hypothetical protein GLYMA_18G251400	Glycine max	XP_003552493.1

ARHOMBI_DN1690_c0_g1_i1_4	5,09E-126	365	XP_018832807.1	velvet complex subunit B	Juglans regia	KDP20282.1
ARUBRA_DN4036_c0_g1_i1_5	6,55E-43	143	XP_018850188.1	V-type proton ATPase subunit G-like	Juglans regia	XP_018850189.1
ARHOMBI_DN3961_c0_g1_i1_1	4,34E-97	293	XP_018843123.1	eukaryotic translation initiation factor 3 subunit J-like	Juglans regia	OAY46647.1
ARUBRA_DN6223_c0_g1_i1_2	0	534	KDP24308.1	hypothetical protein JCGZ_25604	Jatropha curcas	XP_012088080.1
ARUBRA_DN17757_c0_g1_i1_6	2,34E-153	432	OAY25631.1	hypothetical protein MANES_17G110100	Manihot esculenta	XP_018845779.1
ARUBRA_DN1661_c0_g1_i1_3	3,87E-89	264	XP_018845602.1	AIG2-like protein	Juglans regia	OAY53495.1
ARUBRA_DN2570_c0_g2_i1_5	1,12E-46	150	KRH26085.1	hypothetical protein GLYMA_12G151400	Glycine max	KRH26086.1
ARUBRA_DN2915_c0_g1_i1_5	0	875	XP_018822246.1	aspartate aminotransferase P2, mitochondrial-like	Juglans regia	XP_018822247.1
ARUBRA_DN4959_c0_g1_i4_6	6,38E-80	239	XP_018851971.1	40S ribosomal protein S20-2-like	Juglans regia	XP_018851972.1
ARUBRA_DN4738_c0_g1_i1_6	3,53E-84	252	XP_018833404.1	40S ribosomal protein S12-like	Juglans regia	XP_018835263.1
ARHOMBI_DN5099_c0_g2_i1_3	0	585	XP_018834071.1	mitochondrial phosphate carrier protein 3, mitochondrial-like	Juglans regia	XP_008341244.1
ARHOMBI_DN6124_c0_g2_i1_6	0	815	XP_018847910.1	phosphoglycerate kinase, chloroplastic	Juglans regia	OAY30163.1
ARUBRA_DN22130_c0_g1_i1_6	1,25E-107	314	XP_018815941.1	malignant T-cell-amplified sequence 1 homolog	Juglans regia	OAY44020.1
ARHOMBI_DN17024_c0_g1_i1_5	1,88E-96	285	XP_018843199.1	glutathione S-transferase DHAR3, chloroplastic-like	Juglans regia	XP_018816866.1
ARHOMBI_DN3923_c0_g2_i1_3	8,31E-30	105	XP_018807625.1	aldo-keto reductase family 4 member C9-like	Juglans regia	XP_018846254.1
ARUBRA_DN16253_c0_g1_i1_2	0	549	XP_018839434.1	pyruvate kinase isozyme A, chloroplastic-like	Juglans regia	XP_018818630.1
ARUBRA_DN18651_c0_g1_i1_6	2,26E-164	489	XP_018852509.1	puromycin-sensitive aminopeptidase isoform X2	Juglans regia	ONI07154.1
ARHOMBI_DN16154_c0_g1_i1_2	5,65E-107	311	KDP23652.1	hypothetical protein JCGZ_23485	Jatropha curcas	XP_012089246.1
ARUBRA_DN5051_c0_g1_i1_2	0	509	XP_018816665.1	14-3-3-like protein A	Juglans regia	XP_018816666.1
ARHOMBI_DN2561_c0_g1_i1_3	3,62E-52	168	XP_009348814.2	60S ribosomal protein L22-2-like isoform X1	Pyrus x bretschneideri	XP_018815191.1
ARUBRA_DN1380_c0_g2_i1_2	0	1042	XP_018840362.1	ketol-acid reductoisomerase, chloroplastic-like	Juglans regia	XP_018809878.1
ARUBRA_DN2595_c0_g3_i1_4	2,05E-89	264	XP_018823169.1	60S ribosomal protein L27a-3-like	Juglans regia	KDP31039.1
ARUBRA_DN3028_c0_g1_i1_1	1,65E-72	226	XP_018833902.1	cytochrome c oxidase subunit 6b-1-like isoform X2	Juglans regia	XP_018833901.1
ARUBRA_DN3878_c0_g1_i1_3	9,57E-80	251	XP_018842240.1	biotin carboxylase 1, chloroplastic isoform X1	Juglans regia	ONI14054.1
ARUBRA_DN2248_c0_g1_i1_6	0	706	XP_018851843.1	protein STRICTOSIDINE SYNTHASE-LIKE 3-like	Juglans regia	XP_018844479.1
ARUBRA_DN3983_c0_g1_i1_4	0	1009	XP_018807686.1	3-isopropylmalate dehydratase large subunit, chloroplastic-like	Juglans regia	XP_018820100.1
ARUBRA_DN7521_c0_g1_i1_3	1,60E-91	288	KDP22063.1	hypothetical protein JCGZ_25894	Jatropha curcas	XP_012089960.1
ARUBRA_DN15944_c0_g1_i1_3	1,50E-50	169	XP_018844057.1	selenium-binding protein 2-like	Juglans regia	XP_018848542.1
ARUBRA_DN4965_c10_g1_i1_3	0	882	XP_018807488.1	uncharacterized protein LOC108980899	Juglans regia	XP_018807488.1
ARHOMBI_DN2725_c0_g1_i1_2	8,56E-80	248	OAY50881.1	hypothetical protein MANES_05G169500	Manihot esculenta	XP_009364054.1
ARHOMBI_DN4252_c0_g1_i1_5	1,59E-128	367	XP_008234622.1	60S ribosomal protein L9-1	Prunus mume	ONI25805.1

ARHOMBI_DN5741_c0_g1_i1_3	7,83E-121	350	XP_018834379.1	60S ribosomal protein L6	Juglans regia	XP_018816601.1
ARHOMBI_DN4907_c0_g1_i1_4	3,43E-108	315	AAQ08191.1	eukaryotic translation initiation factor 5A isoform I	Hevea brasiliensis	AAQ08192.1
ARHOMBI_DN3938_c0_g1_i1_4	4,89E-110	321	XP_018841038.1	acyl-protein thioesterase 2-like isoform X1	Juglans regia	KYP34215.1
ARUBRA_DN17582_c0_g1_i1_4	4,47E-46	152	XP_018820822.1	(DL)-glycerol-3-phosphatase 2	Juglans regia	XP_008223698.1
ARUBRA_DN9146_c0_g1_i1_2	2,74E-50	164	XP_018841906.1	DNA-binding protein DDB_G0278111-like isoform X2	Juglans regia	XP_018841907.1
ARHOMBI_DN15390_c0_g1_i1_4	1,70E-127	373	XP_018831678.1	FAM10 family protein At4g22670-like	Juglans regia	XP_018847976.1
ARHOMBI_DN4487_c0_g1_i1_2	0	588	XP_018827261.1	TOM1-like protein 2	Juglans regia	XP_008235674.1
ARUBRA_DN1889_c0_g1_i1_3	2,79E-130	373	XP_018845301.1	60S ribosomal protein L13-1	Juglans regia	XP_018845302.1
ARUBRA_DN4712_c0_g2_i1_6	2,05E-72	221	XP_008392865.1	60S ribosomal protein L26-1	Malus domestica	XP_008393851.1
ARUBRA_DN4939_c0_g1_i3_5	8,72E-33	117	ABH03379.1	60S acidic ribosomal protein	Prunus dulcis	AAL91663.1
ARUBRA_DN4833_c0_g1_i2_5	2,34E-15	68,9	OAY45733.1	hypothetical protein MANES_07G086800	Manihot esculenta	KDP43375.1
ARUBRA_DN2992_c0_g1_i1_3	2,50E-116	336	XP_018810064.1	eukaryotic translation initiation factor	Juglans regia	XP_018807853.1
ARUBRA_DN7857_c0_g1_i1_1	3,29E-58	184	XP_018809557.1	rho GDP-dissociation inhibitor 1-like isoform X1	Juglans regia	XP_018809558.1
ARUBRA_DN22505_c0_g1_i1_3	2,48E-52	164	XP_007133241.1	hypothetical protein PHAVU_011G163600g, partial	Phaseolus vulgaris	ESW05235.1
ARUBRA_DN21075_c0_g1_i1_5	8,68E-60	189	XP_018825134.1	ubiquitin carboxyl-terminal hydrolase 3-like	Juglans regia	XP_018825135.1
ARHOMBI_DN5548_c0_g1_i1_5	0	1054	XP_020977085.1	pyruvate decarboxylase 2	Arachis ipaensis	XP_020977086.1
ARUBRA_DN2771_c0_g1_i1_5	0	698	XP_018850614.1	proton pump-interactor 1-like	Juglans regia	XP_018823042.1
ARUBRA_DN4858_c0_g1_i1_4	1,32E-29	105	XP_018848846.1	40S ribosomal protein S28	Juglans regia	XP_018848847.1
ARUBRA_DN25882_c0_g1_i1_2	1,74E-61	205	XP_016188426.1	aconitate hydratase, cytoplasmic	Arachis ipaensis	XP_015953278.1
ARHOMBI_DN6034_c0_g1_i3_3	0	805	XP_018835203.1	luminal-binding protein	Juglans regia	ALP70519.1
ARHOMBI_DN5395_c0_g1_i1_3	0	662	APO15267.1	glutathione reductase 2	Prunus avium	XP_008224600.1
ARUBRA_DN2691_c0_g1_i1_5	3,13E-92	274	XP_018814519.1	peptidyl-prolyl cis-trans isomerase FKBP20-1	Juglans regia	KDP44932.1
ARUBRA_DN16143_c0_g1_i1_5	5,19E-86	254	XP_018820939.1	60S ribosomal protein L14-1	Juglans regia	XP_018808011.1
ARUBRA_DN7703_c0_g1_i1_6	3,36E-149	425	CAA98171.1	RAB7D	Lotus japonicus	ACU13699.1
ARHOMBI_DN5124_c0_g1_i1_4	1,31E-36	129	XP_008384671.1	40S ribosomal protein S26-3-like	Malus domestica	XP_009354778.1
ARHOMBI_DN3648_c0_g1_i1_4	1,82E-96	279	XP_018848065.1	40S ribosomal protein S13	Juglans regia	XP_008227708.1
ARHOMBI_DN1734_c0_g1_i1_3	2,48E-122	352	XP_018846383.1	prohibitin-3, mitochondrial-like	Juglans regia	XP_018857639.1
ARUBRA_DN9894_c0_g1_i1_4	0	653	XP_018840325.1	cysteine protease RD19A-like	Juglans regia	OAY52466.1
ARUBRA_DN2456_c0_g1_i1_2	1,29E-121	358	XP_018829662.1	probable S-adenosylmethionine-dependent methyltransferase At5g38100	Juglans regia	XP_018829663.1
ARUBRA_DN6971_c0_g1_i1_6	5,33E-168	470	XP_018822732.1	proteasome subunit alpha type-3-like	Juglans regia	XP_018831769.1
ARHOMBI_DN516_c0_g1_i1_6	2,85E-125	358	XP_018837970.1	germin-like protein subfamily 2 member 1	Juglans regia	XP_018806639.1
ARUBRA_DN3974_c0_g1_i1_1	1,70E-45	149	XP_018860422.1	protein BOLA2	Juglans regia	ACU15761.1
ARUBRA_DN19869_c0_g1_i1_3	9,38E-113	328	XP_018824378.1	UDP-glucose 4-epimerase GEPI48	Juglans regia	XP_018857524.1
ARUBRA_DN5948_c0_g1_i1_2	5,16E-132	386	XP_018826687.1	glucose-6-phosphate isomerase, cytosolic	Juglans regia	KRH61181.1
ARUBRA_DN20440_c0_g1_i1_3						

ARUBRA_DN20805_c0_g1_i1_5	4,31E-90	271	XP_018827585.1	fumarylacetoacetase	Juglans regia	KDP37782.1
ARUBRA_DN1508_c0_g1_i1_1	1,36E-92	270	XP_018820088.1	superoxide dismutase Cu-Zn 2	Juglans regia	ONH94232.1
ARUBRA_DN8181_c0_g1_i1_4	5,26E-180	501	XP_018835046.1	proteasome subunit alpha type-6 isoform X1	Juglans regia	XP_018835047.1
ARHOMBI_DN5015_c0_g1_i1_3	1,79E-151	432	XP_009357480.2	LOW QUALITY PROTEIN: proline synthase co-transcribed bacterial homolog protein-like	Pyrus x bretschneideri	XP_018857393.1
ARUBRA_DN11787_c0_g1_i1_3	5,04E-101	295	XP_018844636.1	PITH domain-containing protein 1	Juglans regia	XP_020208532.1
ARHOMBI_DN5946_c1_g1_i1_6	0	622	XP_018817332.1	glutamine synthetase nodule isozyme-like	Juglans regia	AAB61597.1
ARUBRA_DN23186_c0_g1_i1_4	1,02E-46	154	XP_018842145.1	glycine-rich RNA-binding protein RZ1A-like	Juglans regia	XP_018842146.1
ARUBRA_DN3089_c0_g1_i1_6	0	525	XP_018812299.1	mitochondrial outer membrane protein porin of 36 kDa	Juglans regia	XP_008339931.1
ARUBRA_DN1937_c0_g1_i1_4	0	843	XP_018846215.1	26S proteasome non-ATPase regulatory subunit 12 homolog A	Juglans regia	OIW17846.1
ARHOMBI_DN9002_c0_g1_i1_5	3,87E-67	210	XP_018824896.1	glycine-rich RNA-binding protein 3, mitochondrial-like	Juglans regia	ONI08870.1
ARHOMBI_DN10315_c0_g1_i1_4	2,92E-124	364	OIV93977.1	hypothetical protein TanjilG_05680	Lupinus angustifolius	XP_019422038.1
ARUBRA_DN20947_c0_g1_i1_6	1,67E-89	265	XP_018842727.1	protein BOLA4, chloroplastic/mitochondrial-like	Juglans regia	XP_018828128.1
ARUBRA_DN18979_c0_g1_i1_5	1,13E-120	363	OAY48214.1	hypothetical protein MANES_06G141300	Manihot esculenta	KDP22352.1
ARUBRA_DN6370_c0_g1_i1_6	0	650	XP_018818414.1	probable voltage-gated potassium channel subunit beta	Juglans regia	XP_018840255.1
ARHOMBI_DN16206_c0_g1_i1_4	1,34E-115	335	XP_018838134.1	nitrogen regulatory protein P-II homolog	Juglans regia	XP_018824177.1
ARHOMBI_DN6026_c0_g2_i1_4	0	766	XP_018832890.1	S-adenosylmethionine synthase 1	Juglans regia	XP_009363082.1
ARHOMBI_DN11466_c0_g1_i1_1	4,29E-55	182	XP_009363534.1	aldehyde dehydrogenase family 2 member B7, mitochondrial-like isoform X2 Pyrus x bretschneideri		XP_018813280.1
ARUBRA_DN6756_c0_g1_i1_3	7,59E-152	435	XP_018859966.1	hexokinase-1-like isoform X2	Juglans regia	XP_018859964.1
ARHOMBI_DN7040_c0_g1_i1_2	4,47E-20	87,4	XP_018809958.1	chaperone protein ClpB1	Juglans regia	GAU24636.1
ARHOMBI_DN11661_c0_g1_i1_3	6,30E-105	310	XP_007138652.1	hypothetical protein PHAVU_009G226700g	Phaseolus vulgaris	ESW10646.1
ARHOMBI_DN23618_c0_g1_i1_3	5,60E-45	148	XP_018857758.1	serine/arginine-rich splicing factor RSZ21	Juglans regia	XP_004509838.1
ARUBRA_DN6507_c0_g1_i1_3	1,39E-57	191	XP_018839074.1	UDP-sugar pyrophosphorylase-like	Juglans regia	XP_018849179.1
ARHOMBI_DN21306_c0_g1_i1_1	2,91E-72	233	XP_018843066.1	pyrophosphate--fructose 6-phosphate 1-phosphotransferase subunit alpha	Juglans regia	XP_018832985.1
ARHOMBI_DN16200_c0_g1_i1_5	2,45E-57	194	XP_018815884.1	acid beta-fructofuranosidase-like	Juglans regia	XP_008376436.1
ARHOMBI_DN18668_c0_g1_i1_4	2,88E-43	152	OAY29130.1	hypothetical protein MANES_15G120000	Manihot esculenta	XP_018850581.1
ARHOMBI_DN7785_c0_g1_i1_5	6,40E-30	105	XP_018835558.1	cx9C motif-containing protein 4	Juglans regia	OAY39770.1

ARHOMBI_DN2296_c0_g2_i1_6	0	841	XP_018845710.1	aspartate--tRNA ligase 2, cytoplasmic	Juglans regia	KRH15638.1
ARUBRA_DN4291_c0_g1_i1_3	2,95E-54	174	XP_016171684.1	60S ribosomal protein L23a	Arachis ipaensis	XP_015935618.1
ARHOMBI_DN4083_c0_g1_i1_6	6,46E-123	352	AFK45884.1	unknown	Lotus japonicus	XP_007134165.1
ARHOMBI_DN5446_c0_g1_i1_5	0	746	XP_018815635.1	basic leucine zipper and W2 domain-containing protein 2-like	Juglans regia	OAY34237.1
ARUBRA_DN8529_c0_g1_i1_1	1,08E-92	298	XP_018815316.1	coatomer subunit alpha-1	Juglans regia	XP_018840319.1
ARUBRA_DN4933_c0_g1_i2_4	9,90E-159	451	XP_018834440.1	40S ribosomal protein S2-4-like	Juglans regia	XP_018837209.1
ARUBRA_DN3170_c0_g1_i1_4	0	597	XP_018848058.1	phosphoglucan phosphatase DSP4, amyloplastic-like isoform X2	Juglans regia	XP_018848057.1
ARUBRA_DN4127_c0_g2_i1_4	0	712	XP_018851483.1	isocitrate dehydrogenase NAD catalytic subunit 5, mitochondrial isoform X1	Juglans regia	ONI03044.1
ARUBRA_DN6378_c0_g1_i1_2	0	750	XP_018851707.1	phospholipase D alpha 1	Juglans regia	XP_018850650.1
ARUBRA_DN2301_c0_g1_i1_1	1,33E-50	172	ONI33944.1	hypothetical protein PRUPE_1G455000	Prunus persica	XP_020410106.1
ARUBRA_DN16958_c0_g1_i1_6	4,74E-137	401	OIV94179.1	hypothetical protein TanjilG_13796	Lupinus angustifolius	XP_019421126.1
ARUBRA_DN256_c0_g2_i1_1	0	654	XP_018811933.1	plant UBX domain-containing protein 8	Juglans regia	XP_018828814.1
ARHOMBI_DN2281_c0_g1_i1_1	5,06E-152	427	XP_018814564.1	soluble inorganic pyrophosphatase 1	Juglans regia	XP_018834262.1
ARHOMBI_DN6231_c0_g2_i2_2	3,62E-145	414	XP_018850680.1	tropinone reductase homolog At5g06060-like	Juglans regia	ONI00132.1
ARHOMBI_DN835_c0_g1_i1_4	4,29E-85	251	ACU20582.1	unknown	Glycine max	XP_018851128.1
ARUBRA_DN4252_c0_g2_i2_4	0	2005	XP_018845797.1	glycine dehydrogenase (decarboxylating), mitochondrial	Juglans regia	XP_008393646.1
ARHOMBI_DN11662_c0_g1_i1_4	2,35E-34	127	XP_018835052.1	subtilisin-like protease SBT1.4	Juglans regia	XP_015939299.1
ARUBRA_DN21714_c0_g1_i1_3	9,15E-62	191	XP_014507151.1	60S ribosomal protein L34	Vigna radiata var. radiata	KOM31413.1
ARHOMBI_DN4867_c0_g1_i1_5	5,79E-163	458	XP_018845601.1	proteasome subunit beta type-6	Juglans regia	KDP33416.1
ARHOMBI_DN5538_c0_g1_i1_5	3,53E-117	343	XP_018816103.1	succinate dehydrogenase subunit 5, mitochondrial-like	Juglans regia	XP_018822424.1
ARUBRA_DN9182_c0_g1_i1_2	8,08E-53	179	XP_018814451.1	heat shock cognate 70 kDa protein-like	Juglans regia	XP_018814450.1
ARUBRA_DN4826_c0_g1_i1_4	1,33E-48	162	XP_018811251.1	hemiasterlin resistant protein 1	Juglans regia	XP_018826924.1
ARHOMBI_DN21064_c0_g1_i1_2	2,16E-60	196	XP_018815658.1	hexokinase-1-like	Juglans regia	KDP33801.1
ARHOMBI_DN50_c0_g3_i1_6	0	544	XP_018849591.1	dolichyl-diphosphooligosaccharide--protein glycosyltransferase 48 kDa subunit-like isoform X2	Juglans regia	ONH91270.1
ARUBRA_DN4961_c0_g1_i2_4	1,98E-38	130	XP_017185883.1	serine carboxypeptidase-like 40, partial	Malus domestica	XP_009368057.1
ARHOMBI_DN5474_c0_g1_i1_5	1,23E-05	49,7	XP_018859442.1	phosphoprotein ECPP44-like	Juglans regia	AAL32035.1
ARUBRA_DN3097_c0_g2_i1_2	2,04E-121	363	OAY39428.1	hypothetical protein MANES_10G094100	Manihot esculenta	XP_018826868.1
ARUBRA_DN7003_c0_g1_i1_4	1,54E-130	378	XP_018835563.1	protein PMR5-like	Juglans regia	XP_008385046.2
ARHOMBI_DN20442_c0_g1_i1_1	2,36E-32	122	XP_018828540.1	protein NETWORKED 4A-like isoform X4	Juglans regia	XP_018828538.1

ARUBRA_DN3105_c0_g1_i1_1	3,15E-82	249	XP_018821649.1	gamma carbonic anhydrase 1, mitochondrial-like	Juglans regia	XP_018854607.1
ARUBRA_DN18186_c0_g1_i1_5	2,02E-36	126	XP_018836212.1	26S proteasome non-ATPase regulatory subunit 10	Juglans regia	XP_007157422.1
ARUBRA_DN3014_c0_g1_i1_2	0	1369	XP_018843664.1	4-alpha-glucanotransferase DPE2 isoform X2	Juglans regia	XP_018843661.1
ARUBRA_DN12532_c0_g1_i1_5	2,33E-34	122	XP_018847246.1	desiccation-related protein PCC13-62-like	Juglans regia	XP_018855451.1
ARHOMBI_DN5429_c0_g1_i1_2	1,54E-150	426	XP_018826002.1	endo-1,3;1,4-beta-D-glucanase isoform X2	Juglans regia	XP_018826001.1
ARHOMBI_DN16845_c0_g1_i1_5	1,35E-117	353	XP_018846323.1	clathrin heavy chain 1-like isoform X1	Juglans regia	XP_018846324.1
ARUBRA_DN720_c0_g1_i1_6	4,94E-126	363	XP_018845180.1	40S ribosomal protein S9-2-like	Juglans regia	XP_018826572.1
ARHOMBI_DN17235_c0_g1_i1_3	0	645	OAY57384.1	hypothetical protein MANES_02G093200	Manihot esculenta	XP_015964026.1
ARUBRA_DN2328_c0_g2_i1_4	6,54E-46	149	XP_007161552.1	hypothetical protein PHAVU_001G079100g	Phaseolus vulgaris	ESW33546.1
ARUBRA_DN4073_c0_g1_i1_2	8,01E-172	486	XP_018821628.1	proteasome subunit alpha type-1-B-like	Juglans regia	XP_018845049.1
ARHOMBI_DN1161_c0_g1_i1_2	0	793	XP_018823588.1	transmembrane 9 superfamily member 8-like	Juglans regia	XP_018810860.1
ARHOMBI_DN22444_c0_g1_i1_1	0	513	XP_018826879.1	L-galactose dehydrogenase	Juglans regia	KDP35919.1
ARHOMBI_DN5200_c0_g2_i1_5	6,96E-114	331	KDP28201.1	hypothetical protein JCGZ_13972	Jatropha curcas	XP_012082823.1
ARHOMBI_DN19654_c0_g1_i1_2	1,18E-94	293	ONI01918.1	hypothetical protein PRUPE_6G167100	Prunus persica	XP_007204964.1
ARHOMBI_DN2987_c0_g1_i1_5	0	826	XP_018858191.1	citrate synthase, mitochondrial	Juglans regia	XP_018858196.1
ARHOMBI_DN6144_c0_g1_i1_4	0	771	XP_018819893.1	low-temperature-induced cysteine proteinase-like	Juglans regia	XP_018852257.1
ARUBRA_DN4862_c0_g1_i1_4	0	739	XP_008226131.1	phosphoglycerate kinase, cytosolic	Prunus mume	ONI11910.1
ARHOMBI_DN1127_c0_g2_i1_4	3,04E-125	367	XP_018821285.1	triose phosphate/phosphate translocator, non-green plastid, chloroplastic-like	Juglans regia	ONI08336.1
ARUBRA_DN17228_c1_g1_i1_1	1,34E-168	473	KHM98889.1	Proteasome subunit alpha type-2-A	Glycine soja	KRH75738.1
ARHOMBI_DN4125_c0_g1_i1_5	7,47E-81	241	XP_018847546.1	40S ribosomal protein S12-like	Juglans regia	XP_018853126.1
ARHOMBI_DN4270_c0_g1_i1_2	3,95E-75	230	XP_018816612.1	6-phosphogluconate dehydrogenase, decarboxylating 3-like	Juglans regia	AFK47475.1
ARUBRA_DN4844_c0_g1_i1_2	1,97E-42	142	OAY45736.1	hypothetical protein MANES_07G087100	Manihot esculenta	XP_018842587.1
ARUBRA_DN13846_c0_g1_i1_5	3,94E-45	145	AAK55849.1	AF266465_1 aspartic protease, partial	Manihot esculenta	XP_018836309.1
ARUBRA_DN5052_c0_g2_i1_1	2,21E-61	189	ONH99801.1	hypothetical protein PRUPE_6G051200	Prunus persica	XP_018819193.1
ARUBRA_DN4025_c0_g2_i1_5	1,79E-90	266	XP_018836004.1	40S ribosomal protein S15a-1	Juglans regia	XP_018857112.1
ARUBRA_DN4599_c2_g1_i1_4	2,36E-103	305	XP_009372405.1	coatomer subunit zeta-2-like	Pyrus x bretschneideri	XP_009340672.1
ARUBRA_DN21659_c0_g1_i1_3	1,31E-83	251	XP_018850753.1	protein BOBBER 1	Juglans regia	KYP69897.1
ARHOMBI_DN17850_c0_g1_i1_6	8,70E-161	453	XP_018841293.1	nicotinamidase 1-like	Juglans regia	XP_018841294.1
ARUBRA_DN2529_c0_g2_i1_6	0	580	XP_020218346.1	26S proteasome non-ATPase regulatory subunit 4 homolog	Cajanus cajan	XP_020227721.1
ARHOMBI_DN6264_c0_g1_i5_2	0	717	XP_018841148.1	12-oxophytodienoate reductase 2-like	Juglans regia	OAY23951.1

ARHOMBI_DN5393_c0_g1_i1_1	0	543	XP_018850910.1	bifunctional epoxide hydrolase 2-like	Juglans regia	ONI17394.1
ARUBRA_DN3140_c0_g1_i1_5	1,84E-158	449	XP_018844947.1	20 kDa chaperonin, chloroplastic-like	Juglans regia	XP_018844949.1
ARHOMBI_DN5550_c0_g1_i1_2	1,73E-168	474	KDP44884.1	hypothetical protein JCGZ_01384	Jatropha curcas	XP_012088585.1
ARUBRA_DN3107_c0_g1_i1_6	1,09E-172	486	OAY25879.1	hypothetical protein MANES_16G002900	Manihot esculenta	KYP62724.1
ARUBRA_DN4381_c0_g1_i1_5	0	830	XP_018849108.1	glutamate decarboxylase-like	Juglans regia	XP_018823508.1
ARUBRA_DN3552_c0_g1_i1_4	1,02E-101	303	XP_018837139.1	metacaspase-4-like, partial	Juglans regia	KDP27423.1
ARUBRA_DN3608_c0_g1_i1_6	3,06E-48	157	XP_008230471.1	putative phosphatidylglycerol/phosphatidylinositol transfer protein DDB_G0282179	Prunus mume	XP_018858667.1
ARHOMBI_DN17898_c0_g1_i1_3	0	550	XP_018837044.1	probable cytosolic oligopeptidase A	Juglans regia	XP_018850785.1
ARHOMBI_DN17178_c0_g1_i1_4	8,45E-104	315	OAY30441.1	hypothetical protein MANES_14G031100	Manihot esculenta	KDP22352.1
ARUBRA_DN4547_c0_g1_i1_6	1,97E-127	367	XP_018808145.1	uncharacterized protein LOC108981433 isoform X2	Juglans regia	XP_018808144.1
ARHOMBI_DN486_c0_g1_i1_1	6,53E-08	52,4	KYP42200.1	Putative DNA repair protein RAD23-3	Cajanus cajan	XP_020239676.1
ARHOMBI_DN5664_c0_g1_i1_5	3,43E-39	135	AGW21340.1	lipid transfer protein	Prunus kansuensis	AGH27866.1
ARHOMBI_DN7133_c0_g1_i1_1	2,51E-94	298	OAY37891.1	hypothetical protein MANES_11G137000	Manihot esculenta	KDP44163.1
ARHOMBI_DN5590_c0_g1_i1_4	9,19E-177	494	XP_018814321.1	succinate dehydrogenase ubiquinone iron-sulfur subunit 2, mitochondrial-like	Juglans regia	XP_018844747.1
ARHOMBI_DN3067_c0_g1_i1_1	9,80E-174	487	XP_018812968.1	14-3-3-like protein GF14 kappa	Juglans regia	OAY23218.1
ARUBRA_DN3632_c0_g1_i1_6	2,28E-143	415	XP_018806799.1	glycerol kinase	Juglans regia	ONI16317.1
ARUBRA_DN5040_c0_g4_i8_2	2,70E-139	396	XP_018841297.1	tropinone reductase homolog At5g06060-like	Juglans regia	XP_008221978.1
ARHOMBI_DN9099_c0_g1_i1_1	5,30E-66	204	XP_018807016.1	putative methyltransferase DDB_G0268948	Juglans regia	XP_018817184.1
ARHOMBI_DN1783_c0_g2_i1_3	3,37E-84	254	XP_018851375.1	probable protein phosphatase 2C 11	Juglans regia	XP_018857896.1
ARUBRA_DN5025_c0_g1_i3_3	0	1696	XP_018845641.1	plasma membrane ATPase 4-like	Juglans regia	XP_018854375.1
ARUBRA_DN1938_c0_g1_i1_1	3,29E-159	449	XP_018829633.1	proteasome subunit alpha type-7	Juglans regia	XP_018809418.1
ARHOMBI_DN16492_c0_g1_i1_4	0	1021	XP_018812045.1	L-ascorbate oxidase homolog	Juglans regia	XP_018838329.1
ARUBRA_DN5418_c0_g1_i1_4	0	818	XP_018814240.1	citrate synthase, glyoxysomal	Juglans regia	OAY57307.1
ARHOMBI_DN13783_c0_g1_i1_2	1,35E-20	83,2	KHN37210.1	Xylulose kinase	Glycine soja	XP_014631757.1
ARHOMBI_DN16013_c0_g1_i1_5	3,60E-79	253	XP_018851852.1	5-methyltetrahydropteroyltriglutamate--homocysteine methyltransferase-like	Juglans regia	ONH94299.1
ARUBRA_DN19786_c0_g1_i1_6	9,61E-63	201	XP_018837782.1	3-hydroxyisobutyryl-CoA hydrolase-like protein 5 isoform X2	Juglans regia	XP_018837783.1
ARUBRA_DN5795_c0_g1_i1_1	4,10E-164	474	XP_018805409.1	dihydrolipoyl dehydrogenase 2, chloroplastic-like	Juglans regia	ONI28088.1
ARHOMBI_DN6222_c0_g1_i1_3	2,58E-104	304	XP_018827597.1	monothiol glutaredoxin-S15, mitochondrial	Juglans regia	XP_018827598.1
ARHOMBI_DN3998_c0_g1_i1_1	2,00E-168	474	XP_018834872.1	cytochrome b-c1 complex subunit Rieske-4, mitochondrial-like isoform X2	Juglans regia	XP_018834050.1

ARUBRA_DN25017_c0_g1_i1_1	1,23E-52	172	XP_018813802.1	aldose 1-epimerase-like	Juglans regia	XP_009347058.1
ARUBRA_DN2627_c0_g1_i1_2	0	910	XP_018836913.1	serine carboxypeptidase-like	Juglans regia	ONI23789.1
ARHOMBI_DN2324_c0_g1_i1_5	3,67E-90	276	XP_018809339.1	serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A beta isoform-like	Juglans regia	XP_018829949.1
ARUBRA_DN6463_c0_g1_i1_2	8,46E-68	210	XP_018832580.1	uncharacterized protein LOC109000202 isoform X1	Juglans regia	XP_018832581.1
ARUBRA_DN18383_c0_g1_i1_3	1,83E-63	204	XP_018834911.1	transmembrane protein 33 homolog	Juglans regia	XP_018834117.1
ARUBRA_DN4889_c0_g1_i1_6	0	695	XP_020226595.1	cell division cycle protein 48 homolog	Cajanus cajan	XP_020226595.1
ARHOMBI_DN6134_c0_g1_i1_6	0	560	XP_018819193.1	cinnamoyl-CoA reductase 1	Juglans regia	XP_009369570.1
ARHOMBI_DN3483_c0_g3_i1_5	4,24E-129	379	XP_018814398.1	protein RETICULATA-RELATED 3, chloroplastic-like	Juglans regia	XP_008245279.1
ARUBRA_DN11125_c0_g1_i1_4	1,36E-34	121	XP_018819326.1	V-type proton ATPase subunit E2 isoform X1	Juglans regia	XP_018819328.1
ARHOMBI_DN13455_c0_g1_i1_1	1,91E-53	167	XP_018821252.1	glutaredoxin-like	Juglans regia	XP_018837755.1
ARHOMBI_DN5719_c0_g1_i1_2	3,77E-85	252	XP_008236476.1	40S ribosomal protein S16-like	Prunus mume	OAY45072.1
ARHOMBI_DN25944_c0_g1_i1_6	6,60E-41	140	XP_018854134.1	malate dehydrogenase-like isoform X2	Juglans regia	KDP28817.1
ARHOMBI_DN1498_c0_g1_i1_1	5,14E-39	132	XP_018847006.1	desiccation protectant protein Lea14 homolog isoform X2	Juglans regia	XP_018830082.1
ARUBRA_DN3905_c0_g1_i1_4	1,03E-159	453	XP_018814780.1	3-oxoacyl-[acyl-carrier-protein reductase 4 isoform X2	Juglans regia	XP_018814779.1
ARUBRA_DN8419_c0_g1_i1_3	0	598	XP_004489356.1	glucose-6-phosphate isomerase, cytosolic	Cicer arietinum	XP_004489357.1
ARUBRA_DN11134_c0_g1_i1_6	1,20E-132	382	XP_018818486.1	erlin-2-B	Juglans regia	XP_018818487.1
ARHOMBI_DN2322_c0_g1_i1_2	0	581	XP_018829441.1	putative glucose-6-phosphate 1-epimerase	Juglans regia	ONH96870.1
ARHOMBI_DN20297_c0_g1_i1_1	9,85E-166	470	XP_018840356.1	glyceraldehyde-3-phosphate dehydrogenase GAPCP2, chloroplastic-like isoform X3	Juglans regia	XP_018840355.1
ARUBRA_DN4829_c0_g2_i2_4	5,08E-129	365	XP_018850586.1	60S ribosomal protein L18a	Juglans regia	XP_018819718.1
ARUBRA_DN18092_c0_g1_i1_5	2,06E-84	253	XP_018809253.1	alcohol dehydrogenase-like	Juglans regia	XP_018839888.1
ARHOMBI_DN10619_c0_g1_i1_4	1,94E-107	330	OAY25507.1	hypothetical protein MANES_17G100400	Manihot esculenta	OAY29681.1
ARHOMBI_DN3191_c0_g1_i1_2	1,24E-119	345	XP_018805410.1	GTP-binding protein SAR1A-like	Juglans regia	XP_018805411.1
ARUBRA_DN19085_c0_g1_i1_1	0	817	XP_018840650.1	transmembrane 9 superfamily member 11 isoform X1	Juglans regia	XP_018840651.1
ARHOMBI_DN5770_c0_g2_i2_6	0	511	OAY46226.1	hypothetical protein MANES_07G127000	Manihot esculenta	XP_018806389.1
ARHOMBI_DN3157_c0_g1_i1_6	6,66E-145	414	XP_018825271.1	enoyl-[acyl-carrier-protein reductase NADH , chloroplastic-like	Juglans regia	AIS93131.1
ARUBRA_DN21700_c0_g1_i1_4	9,08E-138	392	XP_018831854.1	CBS domain-containing protein CBSX3, mitochondrial-like	Juglans regia	XP_018815110.1
ARHOMBI_DN16801_c0_g1_i1_1	7,66E-116	356	XP_018845862.1	staphylococcal nuclease domain-containing protein 1-like	Juglans regia	XP_018832881.1
ARUBRA_DN192_c0_g1_i1_1	3,45E-120	351	XP_018833037.1	ADP,ATP carrier protein 3, mitochondrial-like	Juglans regia	XP_018833038.1

ARHOMBI_DN24575_c0_g1_i1_1	6,41E-54	182	KRH39503.1	hypothetical protein GLYMA_09G202100	Glycine max	XP_003534255.2
ARHOMBI_DN5209_c2_g1_i1_4	7,04E-158	470	OAY37891.1	hypothetical protein MANES_11G137000	Manihot esculenta	KDP44163.1
ARUBRA_DN1890_c0_g2_i1_3	2,46E-137	395	XP_018827031.1	protein disulfide isomerase-like 2-3 isoform X1	Juglans regia	XP_018827031.1
ARUBRA_DN3867_c0_g1_i1_1	2,28E-152	434	XP_018823879.1	translocon-associated protein subunit alpha-like	Juglans regia	XP_018841445.1
ARHOMBI_DN23168_c0_g1_i1_4	4,67E-105	306	XP_018824887.1	phosphoserine phosphatase, chloroplastic isoform X1	Juglans regia	XP_018824888.1
ARHOMBI_DN3469_c0_g1_i1_3	0	602	XP_018848760.1	long chain acyl-CoA synthetase 8	Juglans regia	XP_018848761.1
ARUBRA_DN4948_c0_g2_i1_5	1,98E-81	243	XP_018833220.1	60S ribosomal protein L32-1-like	Juglans regia	XP_018833221.1
ARUBRA_DN3297_c0_g1_i1_1	3,04E-93	287	XP_018835196.1	probable trehalase	Juglans regia	XP_008239192.1
ARUBRA_DN2696_c0_g1_i1_3	6,83E-72	217	ONI00303.1	hypothetical protein PRUPE_6G081100	Prunus persica	XP_008223244.1
ARHOMBI_DN15716_c0_g1_i1_4	8,21E-57	189	XP_018818477.1	putative G3BP-like protein	Juglans regia	XP_019421899.1
ARHOMBI_DN4884_c0_g1_i1_2	0	619	XP_018815210.1	UDP-glucuronic acid decarboxylase 2-like	Juglans regia	XP_008369016.1
ARUBRA_DN20045_c0_g1_i1_4	1,21E-102	300	XP_018827351.1	photosystem II reaction center PSB28 protein, chloroplastic	Juglans regia	XP_008235587.1
ARHOMBI_DN1594_c0_g1_i1_2	2,23E-141	420	OAY36779.1	hypothetical protein MANES_11G047600	Manihot esculenta	KDP37205.1
ARUBRA_DN4593_c0_g2_i1_4	7,86E-81	243	XP_018819687.1	40S ribosomal protein S14-3-like	Juglans regia	XP_018831277.1
ARUBRA_DN4903_c0_g1_i1_3	6,09E-79	236	XP_018813383.1	60S ribosomal protein L27	Juglans regia	XP_018827822.1
ARHOMBI_DN18322_c0_g1_i1_3	4,24E-49	158	AFK46078.1	unknown	Lotus japonicus	XP_018837851.1
ARUBRA_DN11129_c0_g1_i1_5	4,49E-61	189	XP_008365972.1	AB hydrolase superfamily protein YfhM-like	Malus domestica	XP_009336925.1
ARUBRA_DN24080_c0_g1_i1_2	0	569	XP_008340410.1	pyruvate kinase, cytosolic isozyme	Malus domestica	XP_008340411.1
ARUBRA_DN10280_c0_g1_i1_1	1,85E-56	179	XP_018809757.1	calcyclin-binding protein-like	Juglans regia	XP_018819738.1
ARUBRA_DN19519_c0_g1_i1_5	5,54E-69	207	XP_018857103.1	tubulin-folding cofactor B-like, partial	Juglans regia	XP_018835787.1
ARUBRA_DN5259_c0_g1_i1_6	3,28E-179	512	XP_018813115.1	fasciclin-like arabinogalactan protein 1	Juglans regia	KDP39270.1
ARUBRA_DN4393_c0_g2_i1_4	0	972	XP_018844988.1	nicotinate phosphoribosyltransferase 1	Juglans regia	XP_008241476.1
ARHOMBI_DN5839_c1_g1_i1_5	5,26E-72	218	XP_008224314.1	40S ribosomal protein S18	Prunus mume	XP_008390888.1
ARUBRA_DN10773_c0_g1_i1_4	1,34E-113	329	XP_018818519.1	probable 6-phosphogluconolactonase 1 isoform X1	Juglans regia	XP_018818520.1
ARUBRA_DN21519_c0_g1_i1_5	1,36E-109	318	XP_008227948.1	60S ribosomal protein L7-2	Prunus mume	KYP44357.1
ARUBRA_DN6882_c0_g1_i1_3	8,80E-79	237	XP_018836212.1	26S proteasome non-ATPase regulatory subunit 10	Juglans regia	XP_015965524.1
ARHOMBI_DN22543_c0_g1_i1_3	1,02E-71	214	XP_018842089.1	basic blue protein-like	Juglans regia	XP_008218855.1
ARUBRA_DN9648_c0_g1_i1_1	9,71E-74	228	XP_018832799.1	uncharacterized protein At3g03773-like	Juglans regia	XP_008237430.1
ARUBRA_DN5039_c0_g1_i1_2	0	639	XP_018856560.1	2-alkenal reductase (NADP(+)-dependent)-like	Juglans regia	XP_018829693.1

ARHOMBI_DN18646_c0_g1_i1_5	1,12E-43	143	XP_018830962.1	uncharacterized protein LOC108998731 isoform X1	Juglans regia	XP_018830963.1
ARHOMBI_DN4447_c0_g1_i1_4	0	576	XP_018849296.1	succinate--CoA ligase ADP-forming subunit alpha-1, mitochondrial	Juglans regia	XP_009355925.1
ARUBRA_DN2978_c0_g1_i1_6	2,03E-103	300	XP_018847314.1	probable NADH dehydrogenase ubiquinone 1 alpha subcomplex subunit 5, mitochondrial	Juglans regia	XP_018847315.1
ARUBRA_DN7999_c0_g1_i1_2	0	556	XP_018837266.1	T-complex protein 1 subunit gamma isoform X1	Juglans regia	XP_018837267.1
ARHOMBI_DN5214_c0_g1_i1_4	1,05E-135	385	XP_008238908.1	protein P21-like	Prunus mume	XP_018828872.1
ARUBRA_DN4195_c0_g1_i1_4	1,97E-99	291	XP_018808968.1	40S ribosomal protein S11	Juglans regia	XP_018822277.1
ARHOMBI_DN6230_c0_g2_i3_1	4,10E-76	230	XP_018835344.1	40S ribosomal protein S17-like	Juglans regia	XP_018855694.1
ARUBRA_DN8665_c0_g1_i1_5	1,22E-123	374	GAU11024.1	hypothetical protein TSUD_113170	Trifolium subterraneum	GAU11024.1
ARHOMBI_DN19852_c0_g1_i1_3	6,88E-49	167	XP_018809366.1	probable methyltransferase PMT18	Juglans regia	XP_018844923.1
ARUBRA_DN7713_c0_g2_i1_1	1,34E-151	429	KYP53345.1	Prohibitin-2	Cajanus cajan	XP_020229475.1
ARHOMBI_DN15828_c0_g1_i1_6	3,08E-142	409	XP_017180251.1	DNA damage-inducible protein 1-like	Malus domestica	XP_008384617.1
ARHOMBI_DN965_c0_g1_i1_1	4,84E-111	321	XP_018841912.1	coatomer subunit zeta-1-like	Juglans regia	XP_012072050.1
ARHOMBI_DN4105_c0_g1_i1_1	3,94E-175	491	KDP41387.1	hypothetical protein JCGZ_15794	Jatropha curcas	XP_012067879.1
ARUBRA_DN6657_c0_g1_i1_6	2,81E-46	162	XP_018816364.1	dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 2-like	Juglans regia	XP_018827273.1
ARUBRA_DN13405_c0_g1_i1_1	1,19E-41	145	XP_008365420.1	oxalate--CoA ligase-like	Malus domestica	KDP25453.1
ARUBRA_DN1195_c0_g1_i1_2	8,28E-111	322	XP_004492839.1	putative 4-hydroxy-4-methyl-2-oxoglutarate aldolase 2	Cicer arietinum	GAU49703.1
ARUBRA_DN2242_c0_g1_i1_5	3,09E-148	443	XP_018849376.1	phosphoenolpyruvate carboxylase, housekeeping isozyme	Juglans regia	XP_018822521.1
ARHOMBI_DN3366_c0_g1_i1_4	7,26E-165	466	XP_018820853.1	mitochondrial outer membrane protein porin 4	Juglans regia	XP_018831181.1
ARUBRA_DN6838_c0_g1_i1_3	2,73E-55	194	XP_018838202.1	acetyl-coenzyme A carboxylase carboxyl transferase subunit alpha, chloroplastic-like	Juglans regia	XP_018833363.1
ARUBRA_DN10378_c0_g1_i1_1	5,72E-60	196	XP_018818630.1	pyruvate kinase isozyme A, chloroplastic-like	Juglans regia	OIW13099.1
ARHOMBI_DN5914_c0_g1_i1_4	0	771	XP_018830218.1	GDP-mannose 3,5-epimerase 2	Juglans regia	XP_018826982.1
ARHOMBI_DN5134_c0_g1_i1_6	0	1020	KOM44158.1	hypothetical protein LR48_Vigan05g176300	Vigna angularis	BAT92001.1
ARUBRA_DN16002_c0_g1_i1_2	2,09E-29	110	XP_018857924.1	GDSL esterase/lipase At1g29670-like	Juglans regia	KEH36671.1
ARUBRA_DN6617_c0_g1_i1_2	3,19E-159	452	XP_018818800.1	probable 6-phosphogluconolactonase 4, chloroplastic	Juglans regia	XP_018842795.1
ARHOMBI_DN7393_c0_g1_i1_3	6,06E-147	413	KDP42463.1	hypothetical protein JCGZ_00260	Jatropha curcas	XP_012066701.1
ARHOMBI_DN1339_c0_g1_i1_3	8,81E-68	213	XP_018853171.1	probable protein phosphatase 2C 11	Juglans regia	XP_018835371.1
ARHOMBI_DN16218_c0_g1_i1_1	1,00E-32	124	ONI26240.1	hypothetical protein PRUPE_1G012100	Prunus persica	XP_007225123.1

ARUBRA_DN3982_c0_g2_i1_1	1,06E-172	510	XP_018842400.1	eukaryotic translation initiation factor 3 subunit C isoform X1	Juglans regia	XP_018842401.1
ARHOMBI_DN2364_c0_g1_i1_5	1,86E-106	314	XP_018821859.1	alpha-soluble NSF attachment protein 2-like	Juglans regia	KYP44939.1
ARHOMBI_DN5683_c0_g1_i2_5	0	733	ONI30885.1	hypothetical protein PRUPE_1G279500	Prunus persica	XP_007222547.1
ARUBRA_DN14982_c0_g1_i1_3	2,00E-76	240	OAY59825.1	hypothetical protein MANES_01G062800	Manihot esculenta	OAY30371.1
ARHOMBI_DN21103_c0_g1_i1_1	3,33E-110	325	XP_018824621.1	glucan endo-1,3-beta-glucosidase 14-like	Juglans regia	XP_018824593.1
ARUBRA_DN18762_c0_g1_i1_4	0	716	XP_018837262.1	protein FREE1	Juglans regia	KDP36892.1
ARUBRA_DN4063_c0_g1_i2_5	0	573	XP_018811219.1	eukaryotic translation initiation factor 2 subunit alpha homolog	Juglans regia	KDP42130.1
ARUBRA_DN11481_c0_g1_i1_6	0	719	XP_018827303.1	NADH dehydrogenase ubiquinone 1 alpha subcomplex subunit 9, mitochondrial	Juglans regia	ONH93127.1
ARUBRA_DN934_c0_g1_i1_3	2,37E-159	448	XP_018840891.1	proteasome subunit beta type-1	Juglans regia	OAY62404.1
ARUBRA_DN3268_c0_g1_i1_2	0	613	OAY48391.1	hypothetical protein MANES_06G155200	Manihot esculenta	KDP22191.1
ARHOMBI_DN2479_c0_g1_i1_1	1,13E-50	165	ONH97761.1	hypothetical protein PRUPE_7G208200	Prunus persica	XP_007202368.1
ARUBRA_DN1490_c0_g1_i1_3	0	677	ONI29891.1	hypothetical protein PRUPE_1G220200	Prunus persica	XP_007223276.1
ARUBRA_DN20284_c0_g1_i1_5	5,96E-89	281	XP_018845862.1	staphylococcal nuclease domain-containing protein 1-like	Juglans regia	XP_004503032.1
ARUBRA_DN12380_c0_g1_i1_5	3,89E-101	304	AAW65140.1	3-dehydroquinate dehydratase/shikimate 5-dehydrogenase, partial	Juglans regia	XP_018840587.1
ARHOMBI_DN16116_c0_g1_i1_3	0	556	XP_018842494.1	uncharacterized protein LOC109007319	Juglans regia	XP_008235146.1
ARHOMBI_DN6092_c0_g1_i1_1	0	555	KDP23623.1	hypothetical protein JCGZ_23456	Jatropha curcas	OAY44160.1
ARHOMBI_DN15878_c0_g1_i1_3	2,17E-69	220	XP_018814628.1	putative G3BP-like protein	Juglans regia	XP_018816596.1
ARHOMBI_DN2833_c0_g1_i1_1	4,90E-162	464	XP_018831343.1	probable ADP-ribosylation factor GTPase-activating protein AGD6	Juglans regia	KRH32301.1
ARUBRA_DN16146_c0_g1_i1_4	1,08E-112	327	XP_018836742.1	mitochondrial import receptor subunit TOM20-like	Juglans regia	XP_018852624.1
ARHOMBI_DN10766_c0_g1_i1_6	4,84E-52	169	XP_018853288.1	triphosphate tunel metalloenzyme 3-like	Juglans regia	XP_018816133.1
ARHOMBI_DN5588_c0_g1_i1_3	3,54E-119	350	XP_018821858.1	ferritin-3, chloroplastic	Juglans regia	OAY46317.1
ARUBRA_DN22820_c0_g1_i1_3	2,31E-40	135	XP_016651326.1	putative gamma-glutamylcyclotransferase At3g02910	Prunus mume	XP_009346482.1
ARHOMBI_DN5983_c0_g1_i1_5	0	701	XP_018823000.1	formate dehydrogenase, mitochondrial	Juglans regia	XP_018828647.1
ARUBRA_DN20709_c0_g1_i1_5	2,00E-104	320	XP_018813437.1	probable cytosolic oligopeptidase A	Juglans regia	XP_018837044.1
ARUBRA_DN1983_c0_g1_i1_4	8,97E-121	345	XP_018833647.1	ER membrane protein complex subunit 4-like	Juglans regia	XP_008220646.1
ARHOMBI_DN3005_c0_g2_i1_6	1,80E-82	246	KYP71828.1	40S ribosomal protein S24-2	Cajanus cajan	XP_020210999.1
ARHOMBI_DN5420_c0_g1_i1_2	0	870	XP_018839280.1	26S protease regulatory subunit 7A	Juglans regia	XP_018859577.1

ARUBRA_DN3944_c0_g1_i1_3	5,69E-128	377	XP_018815040.1	dihydrolipoyllysine-residue acetyltransferase component 4 of pyruvate dehydrogenase complex, chloroplastic-like	Juglans regia	XP_018825347.1
ARHOMBI_DN18815_c0_g1_i1_6	3,82E-73	224	KDP21455.1	hypothetical protein JCGZ_21926	Jatropha curcas	XP_012092235.1
ARHOMBI_DN5059_c0_g1_i1_5	8,58E-153	461	XP_018835062.1	heat shock 70 kDa protein 17	Juglans regia	ONI17954.1
ARHOMBI_DN5953_c0_g1_i1_4	0	1040	XP_018817793.1	polyadenylate-binding protein 8-like	Juglans regia	XP_016179797.1
ARUBRA_DN193_c0_g1_i1_1	7,29E-78	235	KDP29235.1	hypothetical protein JCGZ_16624	Jatropha curcas	XP_012082538.1
ARUBRA_DN7445_c0_g1_i1_4	6,56E-93	273	XP_018822137.1	uncharacterized protein LOC108992124	Juglans regia	XP_007199293.2
ARHOMBI_DN18779_c0_g1_i1_3	2,83E-175	496	XP_018812652.1	heterogeneous nuclear ribonucleoprotein 1-like	Juglans regia	XP_018812652.1
ARUBRA_DN19198_c0_g1_i1_2	1,02E-92	291	XP_018849887.1	heat shock protein 90-6, mitochondrial isoform X2	Juglans regia	XP_018849886.1
ARHOMBI_DN5769_c0_g1_i1_5	4,28E-143	404	XP_018860302.1	60S ribosomal protein L13a-4	Juglans regia	XP_018860308.1
ARHOMBI_DN18804_c0_g1_i1_4	6,21E-65	210	XP_008394163.1	UDP-sugar pyrophosphorylase	Malus domestica	XP_009355829.1
ARHOMBI_DN7_c0_g2_i1_2	6,27E-71	226	OAY59318.1	hypothetical protein MANES_01G023200	Manihot esculenta	KDP20053.1
ARUBRA_DN3923_c0_g1_i1_5	5,07E-39	132	XP_018821552.1	uncharacterized protein LOC108991675 isoform X1	Juglans regia	XP_018821553.1
ARHOMBI_DN6177_c0_g2_i2_3	2,36E-20	85,5	CAC39160.1	putative LEA III protein isoform 1	Corylus avellana	XP_008391284.1
ARHOMBI_DN24695_c0_g1_i1_4						
ARHOMBI_DN2476_c0_g1_i1_4	4,40E-165	474	XP_018838281.1	V-type proton ATPase catalytic subunit A	Juglans regia	OAY48691.1
ARHOMBI_DN22511_c0_g1_i1_1	4,79E-105	312	XP_018851523.1	mitogen-activated protein kinase 9-like isoform X1	Juglans regia	XP_018851524.1
ARHOMBI_DN3114_c0_g1_i1_1	0	842	XP_018840407.1	protein transport protein Sec61 subunit alpha-like	Juglans regia	XP_018840408.1
ARUBRA_DN16322_c0_g1_i1_4	0	640	XP_008372715.1	arginase 1, mitochondrial	Malus domestica	XP_018505555.1
ARUBRA_DN3916_c0_g1_i1_5	0	538	XP_018815587.1	elongation factor 2	Juglans regia	XP_018815588.1
ARUBRA_DN4811_c0_g2_i1_4	4,70E-135	388	XP_018819317.1	proactivator polypeptide-like 1	Juglans regia	XP_018819318.1
ARUBRA_DN18543_c0_g1_i1_6	1,92E-80	260	XP_018850062.1	acyl-CoA-binding domain-containing protein 4	Juglans regia	ONI04458.1
ARHOMBI_DN3540_c0_g1_i1_2	4,63E-144	408	KRH29738.1	hypothetical protein GLYMA_11G135400	Glycine max	XP_003537971.1
ARUBRA_DN478_c0_g1_i1_2	4,12E-130	371	XP_018844456.1	peptide methionine sulfoxide reductase B5-like	Juglans regia	XP_018855277.1
ARUBRA_DN20269_c0_g1_i1_6	5,51E-57	192	OAY52464.1	hypothetical protein MANES_04G085400	Manihot esculenta	XP_018815316.1
ARUBRA_DN20878_c0_g1_i1_1	0	647	XP_018807321.1	aconitate hydratase 1	Juglans regia	KDP23953.1
ARHOMBI_DN912_c0_g1_i1_6	0	736	XP_018828219.1	coatomer subunit beta-1	Juglans regia	XP_018843747.1
ARUBRA_DN11488_c0_g1_i1_6	1,11E-72	228	XP_004488376.1	enolase 1, chloroplastic	Cicer arietinum	KEH38028.1
ARUBRA_DN19442_c0_g1_i1_2	2,38E-56	190	XP_018832184.1	uncharacterized protein LOC108999736	Juglans regia	KHN06535.1
ARUBRA_DN4301_c0_g1_i1_3	1,26E-55	178	XP_018858854.1	auxin-repressed 12.5 kDa protein-like	Juglans regia	XP_018811601.1

ARUBRA_DN16241_c0_g1_i1_5	1,37E-89	269	XP_018834886.1	translocon-associated protein subunit beta-like isoform X1	Juglans regia	XP_018834081.1
ARUBRA_DN6197_c0_g1_i1_1	2,66E-52	167	XP_008386773.1	pectinesterase-like, partial	Malus domestica	XP_018824905.1
ARUBRA_DN5359_c0_g1_i1_3	0	1179	XP_018834612.1	formate--tetrahydrofolate ligase	Juglans regia	XP_008227769.1
ARUBRA_DN20048_c0_g1_i1_1	5,98E-38	133	XP_018857524.1	UDP-glucose 4-epimerase GEPI48-like	Juglans regia	XP_004511515.1
ARHOMBI_DN6095_c0_g2_i1_5	0	669	XP_018852657.1	dnaJ protein homolog	Juglans regia	XP_018805733.1
ARUBRA_DN4711_c0_g2_i1_6	1,38E-131	377	XP_008345452.1	actin	Malus domestica	KYP68187.1
ARUBRA_DN2566_c0_g2_i1_5	0	1183	XP_018805213.1	alpha-glucan water dikinase, chloroplastic isoform X1	Juglans regia	XP_018805214.1
ARHOMBI_DN6176_c1_g1_i1_5	0	546	XP_018828606.1	peroxidase 4-like	Juglans regia	XP_020537678.1
ARUBRA_DN413_c0_g1_i1_3	2,91E-41	142	XP_018841575.1	uncharacterized protein At2g17340-like	Juglans regia	XP_018841576.1
ARUBRA_DN16443_c0_g1_i1_3	3,93E-71	214	XP_020968128.1	clathrin heavy chain 2-like	Arachis ipaensis	XP_020968129.1
ARHOMBI_DN15325_c0_g1_i1_4	2,48E-56	181	XP_018836402.1	mitochondrial intermembrane space import and assembly protein 40	Juglans regia	KDP40464.1
ARHOMBI_DN5371_c0_g1_i1_2	5,86E-63	195	OAY53712.1	hypothetical protein MANES_03G017600	Manihot esculenta	XP_018834799.1
ARUBRA_DN4439_c0_g1_i1_3	2,86E-54	174	XP_008232650.1	60S ribosomal protein L22-3	Prunus mume	ONI22680.1
ARHOMBI_DN24520_c0_g1_i1_6	2,24E-27	107	KDP26565.1	hypothetical protein JCGZ_17723	Jatropha curcas	XP_012085348.1
ARHOMBI_DN900_c0_g1_i1_2	0	544	XP_018838640.1	short-chain dehydrogenase TIC 32, chloroplastic-like	Juglans regia	ONI25356.1
ARUBRA_DN2910_c0_g1_i1_5	1,27E-137	394	XP_008231080.1	60S ribosomal protein L7a isoform X2	Prunus mume	ONI19998.1
ARHOMBI_DN5383_c0_g1_i1_2	8,48E-82	253	XP_018847079.1	LL-diaminopimelate aminotransferase, chloroplastic-like	Juglans regia	XP_008382390.1
ARUBRA_DN1777_c0_g1_i1_3	8,08E-34	118	XP_018843076.1	calvin cycle protein CP12-3, chloroplastic	Juglans regia	KDP36727.1
ARHOMBI_DN4470_c0_g1_i1_6	0	516	KDP29239.1	hypothetical protein JCGZ_16628	Jatropha curcas	XP_012082542.1
ARUBRA_DN22163_c0_g1_i1_3	1,15E-112	335	CBM39040.1	unnamed protein product	Glycine max	CBM39131.1
ARHOMBI_DN13192_c0_g1_i1_2	2,88E-67	203	ACU23663.1	unknown, partial	Glycine max	OAY60567.1
ARHOMBI_DN54_c0_g1_i1_2	4,69E-141	398	KRH26302.1	hypothetical protein GLYMA_12G1662002, partial	Glycine max	XP_016194848.2
ARHOMBI_DN4900_c0_g1_i1_5	1,28E-68	214	XP_008246159.1	uncharacterized protein LOC103344327	Prunus mume	OAY43942.1
ARHOMBI_DN13072_c0_g1_i1_6	1,91E-48	160	XP_018820370.1	uridine 5'-monophosphate synthase-like	Juglans regia	XP_018817984.1
ARUBRA_DN14237_c0_g1_i1_6						
ARHOMBI_DN18431_c0_g1_i1_1	2,64E-159	472	OAY46048.1	hypothetical protein MANES_07G112300	Manihot esculenta	OAY46049.1
ARUBRA_DN8433_c0_g1_i1_6	5,56E-39	133	XP_018821673.1	maf-like protein DDB_G0281937 isoform X3	Juglans regia	XP_018821675.1
ARHOMBI_DN19091_c0_g1_i1_5	3,15E-126	360	XP_018819054.1	triphosphate tunel metalloenzyme 3-like	Juglans regia	XP_014496452.1
ARUBRA_DN18317_c0_g1_i1_5	5,07E-160	448	XP_018816905.1	uncharacterized protein LOC108988199 isoform X1	Juglans regia	XP_018816906.1

ARHOMBI_DN22440_c0_g1_i1_6	5,10E-73	231	OIV93350.1	hypothetical protein TanjilG_08763	Lupinus angustifolius	XP_019424386.1
ARHOMBI_DN8601_c0_g1_i1_4	1,62E-94	292	XP_018827273.1	dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 2-like	Juglans regia	XP_018816364.1
ARHOMBI_DN25934_c0_g1_i1_3	1,48E-125	355	XP_008351114.1	ras-related protein RABB1c-like	Malus domestica	OAY41077.1
ARHOMBI_DN13008_c0_g1_i1_6	5,97E-54	167	ONI32563.1	hypothetical protein PRUPE_1G373500	Prunus persica	XP_018822047.1
ARUBRA_DN1845_c0_g1_i1_5	0	859	XP_018858095.1	ATP-citrate synthase beta chain protein 2	Juglans regia	XP_018858096.1
ARUBRA_DN4305_c0_g2_i1_6	0	830	XP_018858352.1	26S proteasome regulatory subunit 4 homolog B	Juglans regia	XP_018820323.1
ARUBRA_DN13152_c0_g1_i1_3	8,46E-32	120	XP_018853146.1	phosphoenolpyruvate carboxylase 4-like	Juglans regia	OAY31242.1
ARUBRA_DN3999_c0_g1_i1_6	2,76E-170	487	KYP46666.1	Pyruvate decarboxylase isozyme 2	Cajanus cajan	XP_020235713.1
ARUBRA_DN5726_c0_g1_i1_1	0	694	XP_018825075.1	peroxisomal acyl-coenzyme A oxidase 1	Juglans regia	XP_018819219.1
ARHOMBI_DN3987_c0_g1_i1_4	2,11E-152	446	KDP43753.1	hypothetical protein JCGZ_22380	Jatropha curcas	OAY60978.1
ARHOMBI_DN9641_c0_g1_i1_3	3,39E-180	513	XP_018848856.1	DEAD-box ATP-dependent RNA helicase 37-like	Juglans regia	XP_018848857.1
ARUBRA_DN16264_c0_g1_i1_5	0	775	XP_018822783.1	pyruvate dehydrogenase E1 component subunit alpha-3, chloroplastic	Juglans regia	OAY48935.1
ARHOMBI_DN15803_c0_g1_i1_2	5,91E-110	319	XP_018822169.1	gamma-glutamylcyclotransferase 2-3-like	Juglans regia	ONI34811.1
ARUBRA_DN1574_c0_g2_i1_2	1,72E-46	161	XP_009372651.1	pyrophosphate--fructose 6-phosphate 1-phosphotransferase subunit alpha	Pyrus x bretschneideri	XP_018832985.1
ARHOMBI_DN1369_c0_g1_i1_5	9,34E-31	113	OIW05856.1	hypothetical protein TanjilG_23642	Lupinus angustifolius	XP_019451066.1
ARUBRA_DN8743_c0_g1_i1_3	2,48E-51	160	GAU16914.1	hypothetical protein TSUD_36720, partial	Trifolium subterraneum	KDP33373.1
ARHOMBI_DN1764_c0_g1_i1_5	0	540	XP_018847046.1	asparagine synthetase glutamine-hydrolyzing 3-like	Juglans regia	XP_018847046.1
ARHOMBI_DN5253_c0_g2_i1_2	0	666	XP_018851637.1	fructose-1,6-bisphosphatase, cytosolic	Juglans regia	KDP42999.1
ARHOMBI_DN5557_c0_g1_i1_6	0	768	XP_008225692.1	UDP-arabinose 4-epimerase 1	Prunus mume	AGH25534.1
ARHOMBI_DN27310_c0_g1_i1_4	2,53E-36	129	XP_018837102.1	chromatin assembly factor 1 subunit A isoform X1	Juglans regia	XP_018837103.1
ARUBRA_DN99_c0_g1_i1_2	0	563	XP_018819183.1	ubiquitin-activating enzyme E1 1-like	Juglans regia	XP_018819183.1
ARUBRA_DN3903_c0_g1_i1_1	0	950	XP_018843166.1	proline--tRNA ligase, cytoplasmic-like isoform X1	Juglans regia	XP_018843167.1
ARUBRA_DN620_c0_g1_i1_5	3,06E-80	246	XP_018827585.1	fumarylacetoacetase	Juglans regia	XP_015959013.1
ARUBRA_DN7726_c0_g1_i1_6	1,35E-99	300	XP_008220832.1	glucose-1-phosphate adenylyltransferase large subunit, chloroplastic/amyloplastic isoform X1	Prunus mume	ONI32613.1
ARHOMBI_DN12388_c0_g1_i1_3	7,42E-80	244	XP_017188574.1	protein transport protein SEC31 homolog B-like	Malus domestica	XP_018817298.1

ARHOMBI_DN5442_c0_g1_i1_6	0	840	XP_018835118.1	eukaryotic initiation factor 4A-15	Juglans regia	XP_018835119.1
ARHOMBI_DN97_c0_g1_i1_1	1,38E-43	153	XP_018833217.1	uncharacterized protein LOC109000707	Juglans regia	XP_018833218.1
ARHOMBI_DN6380_c0_g1_i1_4	3,71E-32	120	XP_018859093.1	probable pectinesterase/pectinesterase inhibitor 51	Juglans regia	XP_018859084.1
ARUBRA_DN7925_c0_g1_i1_2	1,73E-72	236	XP_018849376.1	phosphoenolpyruvate carboxylase, housekeeping isozyme	Juglans regia	XP_018822521.1
ARHOMBI_DN4703_c0_g1_i1_3	0	535	XP_018829443.1	gamma carbonic anhydrase 1, mitochondrial-like isoform X1	Juglans regia	XP_018829444.1
ARUBRA_DN2228_c0_g2_i1_2	0	522	XP_018818494.1	UDP-glucose 6-dehydrogenase 4	Juglans regia	KDP41285.1
ARUBRA_DN23264_c0_g1_i1_3	1,44E-36	133	XP_019432775.1	calcium-transporting ATPase 2, plasma membrane-type-like	Lupinus angustifolius	XP_007155834.1
ARUBRA_DN22823_c0_g1_i1_2	2,88E-162	461	XP_018848755.1	indole-3-glycerol phosphate synthase, chloroplastic-like	Juglans regia	KDP29953.1
ARHOMBI_DN3499_c0_g1_i1_2	0	962	XP_018812785.1	importin subunit alpha-2-like	Juglans regia	XP_018825763.1
ARHOMBI_DN6537_c0_g1_i1_4	5,59E-87	281	BAT86449.1	hypothetical protein VIGAN_04410200	Vigna angularis var. angularis	XP_017418308.1
ARUBRA_DN16598_c0_g1_i1_4	4,75E-53	180	XP_018816352.1	villin-3-like isoform X3	Juglans regia	XP_018816349.1
ARUBRA_DN3848_c0_g2_i1_1	1,61E-127	366	XP_018836944.1	NEDD8-conjugating enzyme Ubc12-like	Juglans regia	XP_018836945.1
ARUBRA_DN16655_c0_g1_i1_1	0	742	XP_018816636.1	NADH dehydrogenase ubiquinone iron-sulfur protein 1, mitochondrial	Juglans regia	ONI17532.1
ARHOMBI_DN2235_c0_g1_i1_5	1,61E-116	343	XP_018810152.1	protein BTR1-like isoform X2	Juglans regia	XP_018810152.1
ARUBRA_DN19778_c0_g1_i1_3	1,92E-144	426	XP_018816929.1	uncharacterized protein LOC108988207	Juglans regia	XP_018843198.1
ARUBRA_DN5666_c0_g1_i1_2	0	711	XP_018839623.1	eukaryotic translation initiation factor 3 subunit E	Juglans regia	XP_018808879.1
ARUBRA_DN5508_c0_g1_i1_2	2,16E-83	249	XP_018840715.1	cytochrome b5, seed isoform	Juglans regia	XP_018821473.1
ARUBRA_DN3962_c0_g1_i1_6	0	639	XP_018828827.1	eukaryotic translation initiation factor 3 subunit I-like	Juglans regia	XP_018818014.1
ARUBRA_DN20257_c0_g1_i1_3	8,90E-67	207	XP_018814198.1	putative glucose-6-phosphate 1-epimerase isoform X1	Juglans regia	XP_018814255.1
ARUBRA_DN11024_c0_g1_i1_6	2,58E-49	163	XP_008379431.1	7-methylguanosine phosphate-specific 5'-nucleotidase	Malus domestica	XP_008356844.1
ARUBRA_DN21569_c0_g1_i1_4	0	596	XP_018838151.1	26S proteasome non-ATPase regulatory subunit 14 homolog	Juglans regia	XP_018857189.1
ARUBRA_DN965_c0_g1_i1_3	6,73E-65	207	XP_018815658.1	hexokinase-1-like	Juglans regia	KDP33801.1
ARHOMBI_DN27321_c0_g1_i1_2	7,18E-60	201	KDP33418.1	hypothetical protein JCGZ_06989	Jatropha curcas	XP_012076297.1
ARUBRA_DN1379_c0_g2_i1_4	0	821	XP_004485538.1	serine decarboxylase 1	Cicer arietinum	XP_004485539.1
ARUBRA_DN21229_c0_g1_i1_6	8,36E-93	284	XP_018860643.1	dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1A-like isoform X2	Juglans regia	XP_018860642.1
ARUBRA_DN16619_c0_g1_i1_3	8,52E-179	502	XP_018830828.1	probable fructokinase-7	Juglans regia	XP_008234319.1

ARHOMBI_DN17281_c0_g1_i1_1	1,03E-32	121	XP_008344156.1	protein disulfide-isomerase 5-2-like	Malus domestica	XP_009379564.1
ARHOMBI_DN4623_c0_g1_i1_3	7,91E-93	276	XP_018829015.1	binding partner of ACD11 1-like	Juglans regia	XP_020203072.1
ARUBRA_DN6168_c0_g1_i1_1	1,93E-57	193	XP_018807473.1	uncharacterized protein LOC108980890	Juglans regia	OAY48561.1
ARHOMBI_DN24755_c0_g1_i1_2	2,77E-56	189	XP_008393748.1	aconitate hydratase 1-like	Malus domestica	XP_008363078.1
ARUBRA_DN4123_c0_g1_i1_5	0	823	XP_018841784.1	serine--tRNA ligase-like isoform X2	Juglans regia	XP_018811146.1
ARUBRA_DN9_c0_g1_i1_4	0	613	XP_018827628.1	probable methyltransferase PMT26	Juglans regia	XP_018827629.1
ARHOMBI_DN6166_c0_g1_i1_6	0	1151	XP_018829229.1	glycine--tRNA ligase, mitochondrial 1-like	Juglans regia	XP_018841636.1
ARUBRA_DN1535_c0_g1_i1_5	4,71E-123	354	ACU21482.1	unknown	Glycine max	OAY21182.1
ARUBRA_DN17285_c0_g1_i1_2	1,44E-75	242	XP_018829411.1	probable Xaa-Pro aminopeptidase P isoform X1	Juglans regia	XP_018829412.1
ARHOMBI_DN20415_c0_g1_i1_5	3,21E-57	183	KHN01580.1	Pyrophosphate--fructose 6-phosphate 1-phosphotransferase subunit alpha	Glycine soja	AIE47261.1
ARHOMBI_DN6137_c0_g1_i1_4	0	1572	XP_018836595.1	chaperone protein ClpC, chloroplastic	Juglans regia	XP_018832706.1
ARUBRA_DN20044_c0_g1_i1_6	1,96E-46	160	XP_018854045.1	T-complex protein 1 subunit alpha	Juglans regia	XP_018854052.1
ARUBRA_DN20625_c0_g1_i1_2	7,75E-73	220	XP_018806116.1	1-(5-phosphoribosyl)-5-[(5-phosphoribosylamino)methylideneamino imidazole-4-carboxamide isomerase, chloroplastic-like	Juglans regia	XP_018813677.1
ARUBRA_DN21250_c0_g1_i1_6	8,43E-43	151	KOM46326.1	hypothetical protein LR48_Vigan07g003000	Vigna angularis	BAT80521.1
ARUBRA_DN4028_c0_g1_i2_4	2,61E-105	308	KHM99496.1	40S ribosomal protein S8	Glycine soja	KRH46288.1
ARUBRA_DN12697_c0_g1_i1_5	4,19E-42	146	XP_018843285.1	mitochondrial-processing peptidase subunit alpha-like	Juglans regia	KOM27410.1
ARUBRA_DN17667_c0_g1_i1_4	2,92E-70	215	XP_018823645.1	uncharacterized protein LOC108993249	Juglans regia	XP_018857024.1
ARHOMBI_DN16026_c0_g1_i1_1	0	718	XP_018843471.1	26S proteasome non-ATPase regulatory subunit 2 homolog A	Juglans regia	XP_018834279.1
ARUBRA_DN16494_c0_g1_i1_3	4,00E-147	426	KYP61474.1	T-complex protein 1 subunit delta	Cajanus cajan	XP_020220387.1
ARUBRA_DN6330_c0_g1_i1_4	0	937	XP_018833063.1	dihydropyrimidinase-like	Juglans regia	XP_018842508.1
ARUBRA_DN13172_c0_g1_i1_1	1,45E-57	195	XP_018844544.1	mechanosensitive ion channel protein 10-like	Juglans regia	XP_018827036.1
ARHOMBI_DN6108_c0_g1_i2_2	4,28E-18	80,1	XP_018828533.1	glutathione S-transferase zeta class-like isoform X1	Juglans regia	OAY46654.1
ARUBRA_DN20543_c0_g1_i1_1	1,21E-89	264	XP_018807447.1	probable xyloglucan endotransglucosylase/hydrolase protein 27	Juglans regia	XP_018807448.1
ARUBRA_DN3626_c0_g2_i1_5	2,22E-150	433	XP_018815486.1	ubiquitin receptor RAD23c-like	Juglans regia	XP_018815467.1
ARHOMBI_DN3946_c0_g1_i1_1	3,41E-139	400	XP_018850051.1	REF/SRPP-like protein At3g05500	Juglans regia	XP_018850053.1
ARUBRA_DN17212_c0_g1_i1_1	9,79E-119	354	XP_018825075.1	peroxisomal acyl-coenzyme A oxidase 1	Juglans regia	XP_018819219.1
ARHOMBI_DN1738_c0_g2_i1_2	7,15E-62	199	XP_018857981.1	phosphomethylethanolamine N-methyltransferase isoform X2	Juglans regia	XP_018857980.1
ARUBRA_DN4695_c0_g1_i1_1	6,68E-89	265	XP_018858810.1	uncharacterized protein LOC109020739	Juglans regia	XP_018851562.1

ARUBRA_DN6843_c0_g1_i1_2	0	944	AHJ79156.1	betaine-aldehyde dehydrogenase	Juglans regia	XP_018831659.1
ARHOMBI_DN565_c0_g1_i1_1	1,34E-48	162	XP_018824948.1	probable cinnamyl alcohol dehydrogenase 9	Juglans regia	ONI01829.1
ARUBRA_DN12655_c0_g1_i1_2	4,90E-86	270	XP_018815731.1	glyoxysomal fatty acid beta-oxidation multifunctional protein MFP-a-like	Juglans regia	OIV95201.1
ARHOMBI_DN7486_c0_g1_i1_4	3,00E-37	130	XP_018820703.1	GTP-binding protein SAR1A-like	Juglans regia	XP_018846147.1
ARHOMBI_DN3745_c0_g1_i1_6	1,45E-49	160	XP_018820994.1	phosphopantetheine adenylyltransferase	Juglans regia	ONH96872.1
ARHOMBI_DN161_c0_g2_i1_2	4,70E-172	482	XP_019464492.1	26S proteasome non-ATPase regulatory subunit 8 homolog A-like	Lupinus angustifolius	XP_019464493.1
ARHOMBI_DN4381_c0_g1_i1_4	2,55E-114	352	XP_018829157.1	beta-adaptin-like protein C	Juglans regia	KYP52643.1
ARUBRA_DN4254_c0_g2_i1_1	0	744	XP_018822222.1	DEAD-box ATP-dependent RNA helicase 56	Juglans regia	XP_018812870.1
ARUBRA_DN4783_c0_g1_i1_3	0	737	XP_018847079.1	LL-diaminopimelate aminotransferase, chloroplastic-like	Juglans regia	XP_009378578.1
ARHOMBI_DN4848_c0_g1_i1_6	0	529	XP_018836697.1	proteasome subunit beta type-5	Juglans regia	XP_018836698.1
ARHOMBI_DN16223_c0_g1_i1_5	1,82E-130	381	KHM99824.1	Mitochondrial-processing peptidase subunit alpha	Glycine soja	KRH60182.1
ARHOMBI_DN19081_c0_g1_i1_3	1,11E-60	198	OAY56891.1	hypothetical protein MANES_02G053100	Manihot esculenta	XP_018816788.1
ARUBRA_DN24202_c0_g1_i1_3	1,71E-39	133	XP_018856129.1	triphosphate tunel metalloenzyme 3-like, partial	Juglans regia	XP_018853288.1
ARUBRA_DN3211_c0_g1_i1_4	4,60E-71	218	XP_018855746.1	HMG1/2-like protein	Juglans regia	XP_018809064.1
ARUBRA_DN20320_c0_g1_i1_4	8,87E-153	431	XP_018815495.1	uncharacterized protein LOC108987089	Juglans regia	XP_009344930.1
ARUBRA_DN4936_c0_g2_i1_2	5,24E-95	280	XP_018847894.1	SKP1-like protein 1B	Juglans regia	OAY50541.1
ARUBRA_DN9672_c0_g1_i1_4	5,58E-105	323	XP_018826765.1	pyrophosphate-energized vacuolar membrane proton pump-like	Juglans regia	XP_009358552.1
ARUBRA_DN19765_c0_g1_i1_2	1,26E-85	257	XP_018830835.1	protein phosphatase inhibitor 2 isoform X2	Juglans regia	XP_018830836.1
ARUBRA_DN3204_c0_g2_i1_1	1,41E-105	306	XP_018835006.1	25.3 kDa vesicle transport protein-like	Juglans regia	XP_018835007.1
ARUBRA_DN3663_c0_g1_i1_5	0	590	XP_018854045.1	T-complex protein 1 subunit alpha	Juglans regia	XP_018854052.1
ARHOMBI_DN23207_c0_g1_i1_1	4,90E-11	63,9	ONI29014.1	hypothetical protein PRUPE_1G175600	Prunus persica	XP_007222406.1
ARHOMBI_DN10568_c0_g1_i1_2	0	558	XP_018837477.1	T-complex protein 1 subunit eta isoform X1	Juglans regia	OIW02779.1
ARUBRA_DN26415_c0_g1_i1_1	1,21E-35	125	XP_007137680.1	hypothetical protein PHAVU_009G146600g	Phaseolus vulgaris	ESW09674.1
ARHOMBI_DN4088_c0_g1_i1_3	0	783	XP_018849865.1	aminomethyltransferase, mitochondrial	Juglans regia	XP_018849809.1
ARHOMBI_DN5585_c0_g1_i1_3	0	701	XP_018817113.1	TOM1-like protein 2	Juglans regia	XP_018817114.1
ARHOMBI_DN14389_c0_g1_i1_3	3,00E-52	179	XP_018849376.1	phosphoenolpyruvate carboxylase, housekeeping isozyme	Juglans regia	XP_018822521.1
ARUBRA_DN11036_c0_g1_i1_1	4,24E-107	318	XP_018829248.1	monodehydroascorbate reductase 5, mitochondrial	Juglans regia	XP_016651062.1
ARHOMBI_DN6168_c0_g1_i1_4	0	1054	XP_018827696.1	plastidic ATP/ADP-transporter-like	Juglans regia	XP_018823517.1
ARHOMBI_DN1051_c0_g1_i1_2	6,00E-63	197	XP_018818935.1	superoxide dismutase Cu-Zn , chloroplastic	Juglans regia	XP_018841942.1
ARHOMBI_DN4618_c0_g1_i1_5	9,50E-126	360	XP_018806533.1	probable glutathione peroxidase 2	Juglans regia	XP_008380677.1

ARUBRA_DN5779_c0_g1_i1_6	1,82E-116	341	XP_018816103.1	succinate dehydrogenase subunit 5, mitochondrial-like	Juglans regia	XP_018822424.1
ARHOMBI_DN11483_c0_g1_i1_6	8,54E-74	230	XP_018857224.1	cycloartenol-C-24-methyltransferase	Juglans regia	XP_018857224.1
ARHOMBI_DN15111_c0_g1_i1_2	1,57E-131	380	XP_018845516.1	nucleosome assembly protein 1;2-like	Juglans regia	XP_018845505.1
ARUBRA_DN343_c0_g2_i1_5	2,58E-30	112	XP_008229222.1	60S acidic ribosomal protein P1-like	Prunus mume	XP_008233051.1
ARHOMBI_DN12998_c0_g1_i1_2	1,77E-47	153	KRH23486.1	hypothetical protein GLYMA_13G3602002, partial	Glycine max	AAZ32864.1
ARHOMBI_DN1655_c0_g1_i1_1	0	834	XP_018807730.1	3-phosphoshikimate 1-carboxyvinyltransferase 2	Juglans regia	ONI22671.1
ARUBRA_DN8461_c0_g1_i1_4	1,25E-93	275	XP_018817485.1	uncharacterized protein LOC108988625	Juglans regia	OAY29144.1
ARHOMBI_DN17992_c0_g1_i1_1	0	537	XP_018839045.1	probable methyltransferase PMT26	Juglans regia	XP_018839046.1
ARUBRA_DN796_c0_g1_i1_5	1,92E-141	427	XP_018837135.1	26S proteasome non-ATPase regulatory subunit 1 homolog A-like	Juglans regia	OAY28247.1
ARHOMBI_DN11775_c0_g1_i1_1	2,52E-59	196	XP_018822530.1	subtilisin-like protease SBT3.5, partial	Juglans regia	XP_008392653.1
ARUBRA_DN3727_c0_g1_i1_4	7,34E-79	235	XP_018827104.1	vesicle-associated membrane protein 722	Juglans regia	XP_018816327.1
ARUBRA_DN7635_c0_g1_i1_4	0	899	OAY23212.1	hypothetical protein MANES_18G060600	Manihot esculenta	OAY23211.1
ARHOMBI_DN17384_c0_g1_i1_1	2,31E-141	402	XP_008219517.1	vesicle-associated membrane protein 711	Prunus mume	ONI34446.1
ARHOMBI_DN8440_c0_g1_i1_5	2,67E-171	488	XP_018811308.1	probable aspartyl aminopeptidase	Juglans regia	XP_018814786.1
ARHOMBI_DN4904_c0_g1_i1_1	1,70E-151	428	XP_018852621.1	ras-related protein Rab11A	Juglans regia	GAU36334.1
ARUBRA_DN24171_c0_g1_i1_6	2,73E-44	155	XP_004490631.1	ubiquitin-activating enzyme E1 1	Cicer arietinum	XP_004490632.1
ARHOMBI_DN15505_c0_g1_i1_1	1,20E-64	207	XP_018823615.1	sugar transport protein 14-like	Juglans regia	XP_018823616.1
ARUBRA_DN19884_c0_g1_i1_4	1,18E-113	332	XP_018824108.1	hepatocyte growth factor-regulated tyrosine kinase substrate isoform X3	Juglans regia	XP_018824107.1
ARHOMBI_DN2480_c0_g1_i1_6	1,46E-80	244	XP_018831702.1	protein NUCLEAR FUSION DEFECTIVE 2	Juglans regia	ONI08410.1
ARHOMBI_DN5911_c0_g2_i1_1	0	932	ALE18236.1	DAHPS	Pyrus x bretschneideri	NP_001306742.1
ARHOMBI_DN11895_c0_g1_i1_5	2,86E-26	102	ANG56496.1	cinnamoyl-CoA reductase	Hevea brasiliensis subsp. brasiliensis	XP_009355409.1
ARHOMBI_DN10040_c0_g1_i1_3	4,45E-105	318	XP_018851318.1	serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A beta isoform	Juglans regia	XP_018851318.1
ARHOMBI_DN20237_c0_g1_i1_3	0	744	XP_018809133.1	cleft lip and palate transmembrane protein 1 homolog	Juglans regia	XP_009379523.1
ARHOMBI_DN13255_c0_g1_i1_6	1,21E-29	114	XP_007135745.1	hypothetical protein PHAVU_010G155000g	Phaseolus vulgaris	ESW07739.1

ARUBRA_DN1076_c0_g1_i1_4	0	637	XP_018832781.1	thiosulfate/3-mercaptopyruvate sulfurtransferase 1, mitochondrial-like isoform X1	Juglans regia	KDP25080.1
ARHOMBI_DN7071_c0_g1_i1_2	2,25E-89	268	XP_018835854.1	thioredoxin O2, mitochondrial-like isoform X2	Juglans regia	XP_018835853.1
ARUBRA_DN13122_c0_g1_i1_4	3,90E-39	142	XP_018850823.1	sulfate transporter 2.1	Juglans regia	XP_012064904.1
ARHOMBI_DN1703_c0_g1_i1_6	0	514	XP_018807236.1	eukaryotic translation initiation factor 3 subunit F-like	Juglans regia	XP_018821752.1
ARUBRA_DN8641_c0_g1_i1_4	2,10E-74	221	XP_018809915.1	uncharacterized protein LOC108982896	Juglans regia	XP_018809916.1
ARUBRA_DN2071_c0_g3_i1_4	1,49E-96	280	XP_018843327.1	60S ribosomal protein L28-2-like	Juglans regia	XP_018843328.1
ARUBRA_DN24590_c0_g1_i1_2	2,89E-12	64,7	XP_018812044.1	large proline-rich protein BAG6-like isoform X2	Juglans regia	XP_018812043.1
ARUBRA_DN9637_c0_g1_i1_6	1,64E-43	152	XP_018824245.1	acyl-coenzyme A oxidase 3, peroxisomal-like	Juglans regia	XP_018824246.1
ARUBRA_DN12612_c0_g1_i1_4	2,69E-64	196	XP_018835316.1	peptidyl-prolyl cis-trans isomerase CYP18-2	Juglans regia	ONH96008.1
ARHOMBI_DN3999_c0_g1_i1_1	0	1180	XP_018824324.1	dynamin-related protein 5A	Juglans regia	XP_018857541.1
ARHOMBI_DN5284_c0_g1_i1_4	2,65E-103	310	XP_018806799.1	glycerol kinase	Juglans regia	XP_008372701.1
ARUBRA_DN7275_c0_g1_i1_1	1,11E-93	285	KDP35967.1	hypothetical protein JCGZ_09939	Jatropha curcas	XP_012074593.1
ARHOMBI_DN3047_c0_g1_i1_6	0	814	XP_018830113.1	glutamate-1-semialdehyde 2,1-aminomutase 2, chloroplastic	Juglans regia	OAY47995.1
ARUBRA_DN12194_c0_g1_i1_6	1,19E-149	443	XP_018836922.1	coatomer subunit gamma-2-like	Juglans regia	XP_018847842.1
ARHOMBI_DN20434_c0_g1_i1_2	5,55E-40	143	XP_008337280.1	methyl-CpG-binding domain-containing protein 11-like	Malus domestica	XP_008337277.1
ARHOMBI_DN3438_c0_g1_i1_6	0	691	XP_018840433.1	cysteine synthase, chloroplastic/chromoplastic isoform X1	Juglans regia	XP_018840434.1
ARHOMBI_DN4924_c0_g1_i1_5	2,20E-76	228	OAY43528.1	hypothetical protein MANES_08G077000	Manihot esculenta	XP_018823305.1
ARUBRA_DN11906_c0_g1_i1_6	5,41E-57	181	XP_008353771.1	acyl-coenzyme A oxidase 3, peroxisomal-like	Malus domestica	XP_018824245.1
ARUBRA_DN21459_c0_g1_i1_4	2,94E-72	222	XP_018805589.1	cinnamoyl-CoA reductase 2	Juglans regia	XP_018805590.1
ARUBRA_DN23079_c0_g1_i1_1	5,01E-59	181	CAA10126.1	actin, partial	Cicer arietinum	AFP43694.1
ARUBRA_DN15741_c0_g1_i1_6	4,91E-48	159	XP_018818800.1	probable 6-phosphogluconolactonase 4, chloroplastic	Juglans regia	XP_018842795.1
ARHOMBI_DN3883_c0_g1_i1_5	0	682	XP_018829261.1	6-phosphogluconate dehydrogenase, decarboxylating 2, chloroplastic	Juglans regia	ONI07307.1
ARUBRA_DN4014_c0_g2_i1_3	4,30E-43	142	XP_018817591.1	aldo-keto reductase family 4 member C9-like	Juglans regia	KRH75709.1
ARUBRA_DN4532_c0_g1_i1_4	0	1174	OAY47426.1	hypothetical protein MANES_06G078500	Manihot esculenta	ONI31143.1
ARUBRA_DN7957_c0_g1_i1_1	4,02E-174	490	XP_018832031.1	probable ribose-5-phosphate isomerase 3, chloroplastic	Juglans regia	XP_015968505.1
ARHOMBI_DN22787_c0_g1_i1_4	1,43E-111	345	GAU30183.1	hypothetical protein TSUD_311340	Trifolium subterraneum	GAU30182.1
ARUBRA_DN18867_c0_g1_i1_5	0	586	XP_018847856.1	protein transport protein SEC13 homolog B	Juglans regia	XP_018839977.1
ARHOMBI_DN17883_c0_g1_i1_2	1,08E-112	332	XP_018816525.1	ATP-citrate synthase alpha chain protein 3	Juglans regia	XP_018859551.1

ARHOMBI_DN14524_c0_g1_i1_1	3,07E-46	158	XP_018849912.1	heterogeneous nuclear ribonucleoprotein 1 isoform X3	Juglans regia	XP_018849912.1
ARUBRA_DN2441_c0_g1_i1_2	1,51E-143	406	XP_018821207.1	transmembrane protein 205	Juglans regia	XP_008235189.1
ARUBRA_DN25648_c0_g1_i1_1	2,88E-43	151	KDP41683.1	hypothetical protein JCGZ_16090	Jatropha curcas	XP_012068288.1
ARUBRA_DN4730_c0_g1_i1_2	3,62E-91	274	OAY62412.1	hypothetical protein MANES_01G266200	Manihot esculenta	OAY49309.1
ARUBRA_DN4181_c0_g1_i1_5	4,05E-112	325	XP_008222138.1	60S ribosomal protein L17-2	Prunus mume	XP_018809465.1
ARHOMBI_DN26738_c0_g1_i1_4	4,50E-40	143	GAU48115.1	hypothetical protein TSUD_351210	Trifolium subterraneum	KEH18347.1
ARUBRA_DN5147_c0_g1_i1_4	1,17E-31	120	XP_018832881.1	staphylococcal nuclease domain-containing protein 1-like	Juglans regia	XP_018832889.1
ARHOMBI_DN5499_c0_g1_i1_3	0	815	XP_018839119.1	diacylglycerol kinase 5 isoform X1	Juglans regia	XP_018839120.1
ARUBRA_DN8113_c0_g1_i1_3	2,27E-104	320	XP_018857284.1	villin-2-like isoform X2	Juglans regia	XP_018857284.1
ARHOMBI_DN1623_c0_g1_i1_6	0	637	XP_016194788.1	T-complex protein 1 subunit zeta 1	Arachis ipaensis	XP_015962928.1
ARUBRA_DN4329_c0_g1_i1_6	0	552	XP_008231164.1	cytochrome c1-2, heme protein, mitochondrial	Prunus mume	ONI19859.1
ARUBRA_DN4117_c0_g1_i1_6	7,42E-75	228	XP_014496997.1	60S ribosomal protein L23A Vigna radiata var. radiata	Vigna radiata var. radiata	XP_020224350.1
ARUBRA_DN18085_c0_g1_i1_1	9,21E-60	188	XP_018827184.1	ABC transporter I family member 19-like	Juglans regia	XP_008235651.1
ARUBRA_DN5456_c0_g1_i1_2	0	715	XP_018846385.1	probable nucleoredoxin 1	Juglans regia	XP_018846385.1
ARHOMBI_DN23974_c0_g1_i1_1	1,53E-52	175	XP_008352317.1	coatomer subunit beta-1-like, partial	Malus domestica	XP_009371101.1
ARHOMBI_DN3770_c0_g1_i1_1	0	760	XP_018807321.1	aconitate hydratase 1	Juglans regia	KDP23953.1
ARUBRA_DN4031_c0_g1_i1_2	3,07E-40	144	XP_018835196.1	probable trehalase	Juglans regia	XP_018824320.1
ARUBRA_DN4198_c0_g2_i2_4	5,40E-85	257	KDP37390.1	hypothetical protein JCGZ_08401	Jatropha curcas	XP_012072933.1
ARHOMBI_DN16331_c0_g1_i1_2	1,96E-107	319	XP_018850555.1	alanine aminotransferase 1, mitochondrial-like	Juglans regia	XP_018850554.1
ARHOMBI_DN8849_c0_g1_i1_2	4,16E-68	214	OAY23899.1	hypothetical protein MANES_18G116300	Manihot esculenta	XP_008358263.1
ARUBRA_DN6372_c0_g1_i1_2	1,05E-33	118	GAU46388.1	hypothetical protein TSUD_375680	Trifolium subterraneum	XP_018844689.1
ARUBRA_DN16718_c0_g1_i1_3	2,82E-37	130	XP_018827184.1	ABC transporter I family member 19-like	Juglans regia	AIU41666.1
ARHOMBI_DN10686_c0_g1_i1_3	7,69E-39	137	ONI21854.1	hypothetical protein PRUPE_2G093900	Prunus persica	ONI21854.1
ARUBRA_DN8773_c0_g1_i1_4	3,50E-68	210	AFK36987.1	unknown	Lotus japonicus	BAT72624.1
ARUBRA_DN1981_c0_g1_i1_6	1,01E-111	325	ALB76795.1	enoyl-CoA hydratase, partial	Jatropha curcas	XP_018815731.1
ARHOMBI_DN6947_c0_g1_i1_1	4,19E-66	206	KHN28969.1	3-oxoacyl-[acyl-carrier-protein synthase I, chloroplastic	Glycine soja	XP_018819716.1
ARHOMBI_DN4632_c0_g1_i1_3	1,08E-160	461	XP_018849576.1	uncharacterized protein LOC109012411 isoform X2	Juglans regia	XP_018849575.1
ARHOMBI_DN14482_c0_g1_i1_6	2,65E-20	87	XP_018815032.1	dihydrolipoyllysine-residue acetyltransferase component 5 of pyruvate dehydrogenase complex, chloroplastic	Juglans regia	XP_008381007.1
ARHOMBI_DN3429_c0_g1_i1_6	0	607	XP_018843379.1	protein ROOT HAIR DEFECTIVE 3-like	Juglans regia	XP_017189277.1

ARHOMBI_DN3622_c0_g1_i1_4	0	942	XP_018827500.1	acetolactate synthase 2, chloroplastic	Juglans regia	ONH89544.1
ARUBRA_DN4615_c0_g2_i1_3						
ARHOMBI_DN17829_c0_g1_i1_1	0	510	XP_012070239.1	V-type proton ATPase subunit H	Jatropha curcas	XP_017405700.1
ARUBRA_DN6205_c0_g1_i1_1	4,17E-73	226	XP_018834882.1	V-type proton ATPase subunit C	Juglans regia	ONI20048.1
ARUBRA_DN24096_c0_g1_i1_3	1,21E-46	162	XP_018832228.1	actin cytoskeleton-regulatory complex protein PAN1-like	Juglans regia	XP_018841554.1
ARUBRA_DN1065_c0_g2_i1_2	5,42E-142	416	XP_018839142.1	NADP-dependent malic enzyme-like	Juglans regia	ONI15755.1
ARHOMBI_DN12564_c0_g1_i1_6	1,69E-65	208	XP_018836625.1	tryptophan--tRNA ligase, cytoplasmic	Juglans regia	KDP42894.1
ARHOMBI_DN3278_c0_g1_i1_3	1,67E-112	327	XP_018845596.1	translation machinery-associated protein 22	Juglans regia	OAY53925.1
ARUBRA_DN16058_c0_g1_i1_4	6,15E-51	175	XP_018845862.1	staphylococcal nuclease domain-containing protein 1-like	Juglans regia	BAC06183.1
ARUBRA_DN9760_c0_g1_i1_3	2,58E-99	297	XP_018823857.1	probable 26S proteasome non-ATPase regulatory subunit 3	Juglans regia	KRH51667.1
ARHOMBI_DN6246_c0_g1_i3_3	2,23E-132	379	XP_018842015.1	endochitinase-like	Juglans regia	XP_018854709.1
ARHOMBI_DN3643_c0_g1_i1_2	3,85E-65	209	XP_018814240.1	citrate synthase, glyoxysomal	Juglans regia	XP_018828184.1
ARUBRA_DN18439_c0_g1_i1_3	0	632	XP_018831147.1	dynamin-2A-like	Juglans regia	XP_018834193.1
ARUBRA_DN4784_c0_g2_i3_2	1,38E-168	471	XP_018824239.1	proteasome subunit beta type-4-like	Juglans regia	XP_018844541.1
ARHOMBI_DN16305_c0_g1_i1_3	1,26E-41	136	ACF74298.1	glutamine synthetase GS56, partial	Arachis hypogaea	XP_014495844.1
ARUBRA_DN1937_c0_g2_i1_6	0	843	XP_018846215.1	26S proteasome non-ATPase regulatory subunit 12 homolog A	Juglans regia	OIW17846.1
ARHOMBI_DN3129_c0_g1_i1_2	1,02E-52	165	XP_018830250.1	V-type proton ATPase subunit F isoform X1	Juglans regia	XP_008237928.1
ARUBRA_DN1180_c0_g1_i1_3	0	1021	XP_018845552.1	eukaryotic translation initiation factor 3 subunit L-like	Juglans regia	KDP34205.1
ARHOMBI_DN24079_c0_g1_i1_2	3,11E-55	181	XP_018848755.1	indole-3-glycerol phosphate synthase, chloroplastic-like	Juglans regia	OAY35002.1
ARHOMBI_DN17905_c0_g1_i1_4	2,63E-60	189	XP_004502943.1	ras-related protein RABC1-like	Cicer arietinum	ACU20062.1
ARHOMBI_DN13275_c0_g1_i1_1	1,76E-49	175	XP_008346150.1	coatomer subunit alpha-1-like	Malus domestica	XP_008349149.1
ARHOMBI_DN17238_c0_g1_i1_3	9,94E-69	225	XP_018807473.1	uncharacterized protein LOC108980890	Juglans regia	ONH99280.1
ARHOMBI_DN6259_c0_g2_i7_3	6,26E-72	219	XP_018807308.1	probable glutathione S-transferase	Juglans regia	OIW11645.1
ARHOMBI_DN4135_c0_g2_i1_5	7,92E-99	288	XP_018823137.1	ferredoxin-thioredoxin reductase catalytic chain, chloroplastic	Juglans regia	XP_008230669.1
ARUBRA_DN4552_c1_g2_i1_5	8,59E-120	342	KRH69176.1	hypothetical protein GLYMA_02G009600	Glycine max	AAB91395.1
ARHOMBI_DN6298_c0_g1_i1_1	3,04E-52	179	OAY56882.1	hypothetical protein MANES_02G052300	Manihot esculenta	XP_016180001.1
ARHOMBI_DN2163_c0_g1_i1_5	0	673	XP_018826576.1	probable methyltransferase PMT2	Juglans regia	OAY31024.1

ARHOMBI_DN6274_c0_g2_i10_6	5,06E-148	420	XP_018850618.1	thaumatin-like protein 1	Juglans regia	XP_018851248.1
ARUBRA_DN6417_c0_g1_i1_1	3,30E-50	173	XP_018828478.1	ubiquitin-activating enzyme E1 1	Juglans regia	XP_018828479.1
ARUBRA_DN16375_c0_g1_i1_3	3,20E-129	382	XP_018843632.1	TBCC domain-containing protein 1-like isoform X2	Juglans regia	XP_018808540.1
ARUBRA_DN20085_c0_g1_i1_4	5,11E-70	219	OAY24401.1	hypothetical protein MANES_17G013000	Manihot esculenta	XP_018824705.1
ARHOMBI_DN7053_c0_g1_i1_6	5,29E-45	158	XP_018828383.1	eukaryotic translation initiation factor-like	Juglans regia	XP_018823485.1
ARHOMBI_DN4215_c0_g1_i1_6	0	557	XP_018840009.1	ER membrane protein complex subunit 2	Juglans regia	ONI04815.1
ARUBRA_DN6101_c0_g1_i1_3	0	719	ONI36176.1	hypothetical protein PRUPE_1G573400	Prunus persica	ONI36177.1
ARHOMBI_DN5908_c0_g1_i1_6	0	718	XP_018829584.1	3-dehydroquinate synthase, chloroplastic-like	Juglans regia	XP_018834582.1
ARHOMBI_DN12316_c0_g1_i1_3	1,20E-45	160	XP_018835062.1	heat shock 70 kDa protein 17	Juglans regia	OAY41090.1
ARHOMBI_DN1573_c0_g2_i1_5	1,74E-98	291	XP_018860327.1	probable dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 3B	Juglans regia	OAY25973.1
ARUBRA_DN3281_c0_g1_i1_4	1,26E-81	244	XP_018831984.1	actin-depolymerizing factor 2-like	Juglans regia	XP_018814539.1
ARHOMBI_DN5746_c0_g1_i1_4	8,92E-113	324	XP_018815794.1	60S ribosomal protein L21-1-like	Juglans regia	KDP21892.1
ARUBRA_DN17629_c0_g1_i1_1	8,50E-20	86,3	XP_018825904.1	uncharacterized protein LOC108994927 isoform X2	Juglans regia	XP_018825903.1
ARHOMBI_DN1692_c0_g1_i1_5	0	533	KDP38557.1	hypothetical protein JCGZ_04482	Jatropha curcas	OAY50668.1
ARUBRA_DN15157_c0_g1_i1_2	1,53E-23	94,7	XP_012083109.1	RNA-binding protein 38 isoform X1	Jatropha curcas	KDP28419.1
ARHOMBI_DN17586_c0_g1_i1_5	0	795	XP_018811056.1	tryptophan synthase beta chain 1-like	Juglans regia	XP_018824063.1
ARUBRA_DN16576_c0_g1_i1_6	3,27E-38	137	XP_018845086.1	L-arabinokinase-like	Juglans regia	XP_018845600.1
ARHOMBI_DN12404_c0_g1_i1_3	8,10E-88	281	XP_018840319.1	coatomer subunit alpha-1-like	Juglans regia	XP_018840320.1
ARHOMBI_DN5690_c0_g1_i1_6	5,90E-110	319	KEH19791.1	ubiquitin-conjugating enzyme	Medicago truncatula	XP_013445765.1
ARHOMBI_DN14107_c0_g1_i1_6	7,88E-56	174	ACU27389.1	glyceraldehyde-3-phosphate dehydrogenase, partial	Codiaeum variegatum	ABP88103.1
ARUBRA_DN21696_c0_g1_i1_3	7,88E-94	278	XP_018835591.1	2-hydroxyisoflavanone dehydratase-like	Juglans regia	XP_018835592.1
ARUBRA_DN12039_c0_g1_i1_4	1,87E-72	223	OAY27542.1	hypothetical protein MANES_16G133500	Manihot esculenta	XP_008220617.1
ARHOMBI_DN17617_c0_g1_i1_1	1,09E-108	324	OAY24816.1	hypothetical protein MANES_17G045800	Manihot esculenta	XP_008383736.1
ARUBRA_DN25457_c0_g1_i1_2	2,44E-24	98,6	XP_018816929.1	uncharacterized protein LOC108988207	Juglans regia	XP_018843198.1
ARUBRA_DN9520_c0_g1_i1_3	2,36E-140	415	XP_018848499.1	threonine--tRNA ligase, mitochondrial 1-like	Juglans regia	KDP21323.1
ARUBRA_DN12747_c0_g1_i1_4	3,71E-48	166	OAY51887.1	hypothetical protein MANES_04G040700	Manihot esculenta	XP_008237251.1
ARHOMBI_DN27277_c0_g1_i1_1	1,38E-24	99,4	XP_018809774.1	protein transport protein SEC31 homolog B-like isoform X1	Juglans regia	XP_018809776.1
ARUBRA_DN21434_c0_g1_i1_3	7,56E-65	208	ONI07528.1	hypothetical protein PRUPE_5G125900	Prunus persica	OIW09901.1
ARUBRA_DN4990_c0_g1_i1_1	1,68E-144	409	XP_018811920.1	thaumatin-like protein 1	Juglans regia	AHA83528.1

ARHOMBI_DN18290_c0_g1_i1_4	1,50E-90	293	XP_018825846.1	enhancer of mRNA-decapping protein 4-like	Juglans regia	XP_017182550.1
ARUBRA_DN8515_c0_g1_i1_2	9,31E-94	277	XP_018821879.1	tropinone reductase homolog At5g06060-like	Juglans regia	OAY38586.1
ARUBRA_DN7009_c0_g1_i1_3	0	719	XP_018810396.1	pyruvate dehydrogenase E1 component subunit beta-3, chloroplastic	Juglans regia	XP_018810397.1
ARUBRA_DN16706_c0_g1_i1_4	2,80E-40	145	XP_018845086.1	L-arabinokinase-like	Juglans regia	XP_020536405.1
ARUBRA_DN8627_c0_g1_i1_5	3,49E-118	338	KRG96854.1	hypothetical protein GLYMA_19G236500	Glycine max	KYP71247.1
ARUBRA_DN19094_c0_g1_i1_2	1,16E-75	228	XP_018841009.1	uncharacterized protein At2g34160-like	Juglans regia	XP_018858938.1
ARUBRA_DN4464_c0_g2_i1_2	7,47E-163	472	XP_018806637.1	glutamate--tRNA ligase, cytoplasmic	Juglans regia	XP_018806638.1
ARUBRA_DN19978_c0_g1_i1_6	2,78E-122	369	ONH97993.1	hypothetical protein PRUPE_7G222300	Prunus persica	ONH97994.1
ARHOMBI_DN26182_c0_g1_i1_3	7,93E-08	52,4	XP_014495779.1	calcium-transporting ATPase 4, endoplasmic reticulum-type-like	Vigna radiata var. radiata	KOM38945.1
ARUBRA_DN5518_c0_g1_i1_3	7,24E-41	145	XP_018844497.1	plant UBX domain-containing protein 10-like	Juglans regia	OIW07211.1
ARHOMBI_DN6030_c1_g5_i1_6	4,56E-170	483	XP_018823047.1	2-methylene-furan-3-one reductase-like	Juglans regia	XP_018823045.1
ARHOMBI_DN15479_c0_g1_i1_2	0	573	XP_008236172.1	uncharacterized protein LOC103334966	Prunus mume	XP_008372892.1
ARHOMBI_DN21367_c0_g1_i1_4	1,10E-95	283	KHN09360.1	Isocitrate dehydrogenase NAD regulatory subunit 1, mitochondrial	Glycine soja	OAY57637.1
ARUBRA_DN9892_c0_g1_i1_6	3,11E-137	391	XP_018816316.1	ABC transporter I family member 20-like isoform X2	Juglans regia	XP_018816315.1
ARHOMBI_DN8750_c0_g1_i1_3	2,33E-44	154	XP_018826381.1	probable Xaa-Pro aminopeptidase P	Juglans regia	XP_018829411.1
ARHOMBI_DN13150_c0_g1_i1_1	1,38E-55	175	XP_018817591.1	aldo-keto reductase family 4 member C9-like	Juglans regia	XP_018846256.1
ARHOMBI_DN3473_c0_g1_i1_4	8,46E-76	229	XP_020210745.1	iron-sulfur assembly protein IscA-like 1, mitochondrial	Cajanus cajan	KYP71118.1
ARUBRA_DN22076_c0_g1_i1_2	3,90E-101	303	XP_018821230.1	protein SLOW GREEN 1, chloroplastic-like	Juglans regia	XP_016647139.1
ARUBRA_DN11215_c0_g1_i1_3	3,07E-74	239	XP_020977896.1	2-oxoglutarate dehydrogenase, mitochondrial isoform X2	Arachis ipaensis	OAY38674.1
ARHOMBI_DN1047_c0_g1_i1_6	2,53E-138	403	XP_018837500.1	protein disulfide isomerase-like 1-6	Juglans regia	KDP37240.1
ARUBRA_DN1728_c0_g1_i1_2	1,74E-25	96,3	XP_008391131.1	uncharacterized protein At2g27730, mitochondrial-like isoform X1	Malus domestica	XP_008391132.1
ARHOMBI_DN5812_c1_g3_i1_1	6,96E-70	225	XP_018835420.1	eukaryotic translation initiation factor 5-like isoform X1	Juglans regia	XP_018835421.1
ARUBRA_DN17307_c0_g1_i1_2	2,62E-21	84,7	XP_009352165.1	cytochrome c oxidase assembly factor 4 homolog, mitochondrial	Pyrus x bretschneideri	XP_008223056.1
ARHOMBI_DN4645_c1_g1_i1_2	3,84E-125	365	ONI07154.1	hypothetical protein PRUPE_5G103100	Prunus persica	XP_018852508.1
ARUBRA_DN8669_c0_g1_i1_4	1,19E-80	254	XP_018831655.1	probable aldehyde dehydrogenase isoform X1	Juglans regia	XP_018831656.1
ARUBRA_DN5513_c0_g1_i1_1	1,71E-54	176	XP_018839531.1	uncharacterized protein At1g32220, chloroplastic	Juglans regia	OAY27542.1

ARUBRA_DN4813_c0_g1_i1_1	0	814	XP_018806906.1	3-oxoacyl-[acyl-carrier-protein synthase II, chloroplastic-like	Juglans regia	XP_018848626.1
ARUBRA_DN10983_c0_g1_i1_4	5,82E-82	251	XP_018825255.1	elongation factor Tu, mitochondrial-like	Juglans regia	XP_018847441.1
ARUBRA_DN4671_c1_g1_i1_5	0	828	KDP35832.1	hypothetical protein JCGZ_10646	Jatropha curcas	XP_012074649.1
ARUBRA_DN5698_c0_g1_i1_2	0	553	XP_018841018.1	NADH-cytochrome b5 reductase-like protein	Juglans regia	XP_009368820.1
ARUBRA_DN8516_c0_g1_i1_2	1,70E-171	486	XP_018824803.1	fumarate hydratase 1, mitochondrial	Juglans regia	ONH93997.1
ARHOMBI_DN3145_c0_g1_i1_3	0	1053	XP_018805414.1	delta(24)-sterol reductase	Juglans regia	XP_018805415.1
ARUBRA_DN26369_c0_g1_i1_1	2,31E-58	191	AHA83579.1	V-type proton ATPase subunit A	Hevea brasiliensis	OAY48691.1
ARUBRA_DN16851_c0_g1_i1_2	2,73E-88	261	XP_018856574.1	PLAT domain-containing protein 2-like	Juglans regia	AES72232.1
ARHOMBI_DN22852_c0_g1_i1_6	6,71E-62	194	XP_017179549.1	phosphoenolpyruvate carboxylase, housekeeping isozyme-like	Malus domestica	AAL26863.1
ARHOMBI_DN25003_c0_g1_i1_6	7,79E-62	202	XP_018852605.1	leukotriene A-4 hydrolase homolog	Juglans regia	OAY24194.1
ARUBRA_DN17081_c0_g1_i1_5	1,94E-80	243	XP_018860648.1	uncharacterized protein LOC109022250	Juglans regia	XP_018860649.1
ARHOMBI_DN4475_c0_g1_i1_1	4,64E-164	464	XP_018846161.1	uncharacterized protein LOC109009947	Juglans regia	KHN32908.1
ARUBRA_DN6562_c0_g1_i1_2	1,20E-24	92	XP_008344138.1	aldehyde dehydrogenase family 7 member A1-like, partial	Malus domestica	XP_018844904.1
ARUBRA_DN9315_c0_g1_i1_1	1,72E-41	147	XP_018835062.1	heat shock 70 kDa protein 17	Juglans regia	ONI17954.1
ARUBRA_DN5821_c0_g1_i1_4	3,31E-37	132	XP_008236152.1	branched-chain-amino-acid aminotransferase 6-like	Prunus mume	XP_016650586.1
ARHOMBI_DN15559_c0_g1_i1_1	4,89E-88	260	XP_018805571.1	metacaspase-4-like, partial	Juglans regia	XP_018809771.1
ARHOMBI_DN3769_c0_g1_i1_4	5,04E-127	362	XP_018844530.1	uncharacterized protein LOC109008761	Juglans regia	ONI01120.1
ARUBRA_DN6679_c0_g1_i1_2	3,02E-54	182	XP_018823987.1	peroxisomal and mitochondrial division factor 2-like	Juglans regia	XP_018823987.1
ARUBRA_DN3045_c0_g1_i1_5	6,36E-171	479	XP_018814237.1	V-type proton ATPase subunit D-like	Juglans regia	XP_018814238.1
ARUBRA_DN21269_c0_g1_i1_2	0	564	XP_018824768.1	sucrose synthase 2	Juglans regia	OAY61856.1
ARHOMBI_DN3422_c0_g1_i1_5	1,67E-83	251	XP_020419740.1	basic transcription factor 3 isoform X1	Prunus persica	ONI09552.1
ARUBRA_DN11946_c0_g1_i1_3	8,40E-118	342	KRH42843.1	hypothetical protein GLYMA_08G115100	Glycine max	KRH42842.1
ARUBRA_DN428_c0_g1_i1_5	2,79E-38	140	XP_018842622.1	pyruvate kinase isozyme G, chloroplastic isoform X2	Juglans regia	XP_018842621.1
ARHOMBI_DN1985_c0_g2_i1_1	4,04E-89	286	KDP41738.1	hypothetical protein JCGZ_26756	Jatropha curcas	XP_012067196.1
ARUBRA_DN11238_c0_g1_i1_6	4,72E-84	251	XP_018835166.1	uncharacterized protein LOC109002047	Juglans regia	ONI23151.1
ARHOMBI_DN11429_c0_g1_i1_1	4,56E-35	119	XP_018822933.1	cytochrome c oxidase copper chaperone 1-like	Juglans regia	XP_018850576.1
ARUBRA_DN2583_c0_g2_i1_4	3,20E-70	209	XP_018821680.1	protein translation factor SUI1 homolog 1	Juglans regia	XP_018853744.1
ARHOMBI_DN5242_c0_g1_i1_4	0	617	XP_018829679.1	2-methyl-6-phytyl-1,4-hydroquinone methyltransferase, chloroplastic-like isoform X1	Juglans regia	XP_018829680.1
ARUBRA_DN3984_c0_g1_i1_3	0	903	XP_018811862.1	aspartic proteinase-like isoform X1	Juglans regia	XP_018811868.1

ARHOMBI_DN13132_c0_g1_i1_4	2,13E-26	99	XP_018852574.1	UPF0587 protein C1orf123 homolog	Juglans regia	ACU15162.1
ARHOMBI_DN17057_c0_g1_i1_3	4,30E-130	380	XP_018846380.1	glucose-6-phosphate 1-dehydrogenase, cytoplasmic isoform-like isoform X2	Juglans regia	XP_018846377.1
ARHOMBI_DN328_c0_g1_i1_6	2,34E-81	257	XP_018848571.1	dihydrolipoyllysine-residue acetyltransferase component 2 of pyruvate dehydrogenase complex, mitochondrial-like	Juglans regia	ONI15482.1
ARUBRA_DN4992_c0_g1_i2_1	1,17E-42	147	XP_018807016.1	putative methyltransferase DDB_G0268948	Juglans regia	XP_018817184.1
ARHOMBI_DN10598_c0_g1_i1_3	7,20E-82	253	XP_018826282.1	protein WVD2-like 1 isoform X2	Juglans regia	XP_018826281.1
ARHOMBI_DN4392_c0_g1_i1_3	0	699	XP_018852211.1	26S proteasome non-ATPase regulatory subunit 13 homolog A	Juglans regia	XP_018852212.1
ARUBRA_DN6255_c0_g1_i1_2	2,99E-77	241	XP_018856080.1	UBP1-associated protein 2C-like	Juglans regia	XP_018856080.1
ARUBRA_DN8387_c0_g1_i1_5	4,79E-160	449	XP_018825081.1	gamma carbonic anhydrase-like 2, mitochondrial	Juglans regia	OAY47968.1
ARUBRA_DN2057_c0_g1_i1_6	5,22E-154	439	XP_018805636.1	T-complex protein 1 subunit beta-like, partial	Juglans regia	XP_018812048.1
ARHOMBI_DN11616_c0_g1_i1_3	1,39E-50	166	XP_018850753.1	protein BOBBER 1	Juglans regia	XP_018838704.1
ARHOMBI_DN15140_c0_g1_i1_3	5,26E-30	115	XP_018834434.1	protein DETOXIFICATION 43-like	Juglans regia	XP_018834435.1
ARUBRA_DN186_c0_g1_i1_4	2,46E-155	447	XP_018833327.1	28 kDa ribonucleoprotein, chloroplastic-like	Juglans regia	KDP31006.1
ARUBRA_DN18420_c0_g1_i1_3	1,12E-49	169	XP_018839948.1	heparanase-like protein 3 isoform X3	Juglans regia	XP_018839937.1
ARHOMBI_DN736_c0_g2_i1_6	0	880	XP_018858503.1	UDP-sulfoquinovose synthase, chloroplastic	Juglans regia	XP_018858504.1
ARHOMBI_DN8058_c0_g1_i1_5	3,05E-174	496	XP_018852174.1	probable methyltransferase PMT21	Juglans regia	XP_018852176.1
ARHOMBI_DN13310_c0_g1_i1_4	2,47E-56	188	ONI16737.1	hypothetical protein PRUPE_3G118300	Prunus persica	XP_016168070.2
ARUBRA_DN19795_c0_g1_i1_2	1,43E-63	205	XP_008230393.1	T-complex protein 1 subunit zeta 1	Prunus mume	ONI18783.1
ARHOMBI_DN15499_c0_g1_i1_1	6,38E-116	339	XP_018820386.1	vesicle-associated protein 1-3-like	Juglans regia	XP_018853745.1
ARHOMBI_DN5591_c0_g1_i1_2	0	717	XP_018816814.1	mannose-6-phosphate isomerase 1	Juglans regia	OAY57080.1
ARHOMBI_DN2375_c0_g1_i1_6	1,79E-76	246	XP_018836580.1	aminopeptidase M1-like	Juglans regia	XP_018836578.1
ARHOMBI_DN15343_c0_g1_i1_2	0	974	XP_018842610.1	neutral ceramidase-like	Juglans regia	XP_018837606.1
ARUBRA_DN1522_c0_g1_i1_5	9,93E-141	404	KOM53906.1	hypothetical protein LR48_Vigan09g256500	Vigna angularis	XP_017434190.1
ARHOMBI_DN6216_c0_g1_i1_4	0	957	OAY33522.1	hypothetical protein MANES_13G103800	Manihot esculenta	OAY35689.1
ARHOMBI_DN5056_c0_g1_i1_4	1,67E-48	160	KDP44051.1	hypothetical protein JCGZ_05518	Jatropha curcas	XP_012064820.1
ARUBRA_DN4756_c0_g1_i1_6	1,26E-123	355	XP_018816816.1	40S ribosomal protein S7-like	Juglans regia	XP_018853133.1
ARHOMBI_DN3633_c0_g1_i1_2	0	792	XP_018844115.1	DEAD-box ATP-dependent RNA helicase 38	Juglans regia	KYP40304.1
ARHOMBI_DN16542_c0_g1_i1_1	3,75E-59	193	XP_018823842.1	coiled-coil domain-containing protein 124	Juglans regia	XP_007137314.1

ARHOMBI_DN2386_c0_g1_i1_2	1,29E-96	290	XP_018844419.1	3-oxoacyl-[acyl-carrier-protein synthase 3 A, chloroplastic-like	Juglans regia	OAY56674.1
ARHOMBI_DN2790_c0_g2_i1_3	1,13E-134	404	XP_018842400.1	eukaryotic translation initiation factor 3 subunit C isoform X1	Juglans regia	XP_018842401.1
ARHOMBI_DN5912_c0_g2_i4_5	1,67E-23	92	KYP74286.1	Metallothionein-like protein type 2	Cajanus cajan	XP_020237961.1
ARUBRA_DN9466_c0_g1_i1_6	5,24E-90	277	XP_018820447.1	T-complex protein 1 subunit epsilon	Juglans regia	OAY34423.1
ARHOMBI_DN5625_c0_g1_i1_5	1,52E-75	233	XP_009340388.1	thioredoxin F-type, chloroplastic-like isoform X2	Pyrus x bretschneideri	XP_009340351.1
ARUBRA_DN26355_c0_g1_i1_1	3,97E-105	318	XP_018827094.1	dihydroxy-acid dehydratase, chloroplastic-like	Juglans regia	XP_008224581.1
ARUBRA_DN17795_c0_g1_i1_3	2,71E-180	504	ONH97049.1	hypothetical protein PRUPE_7G166700	Prunus persica	XP_007204374.1
ARUBRA_DN4209_c0_g1_i1_6	2,72E-52	178	XP_018824320.1	probable trehalase	Juglans regia	XP_018835196.1
ARHOMBI_DN13841_c0_g1_i1_1	9,84E-52	172	ACN41352.2	protein phosphatase 2A regulatory subunit A, partial	Betula pendula	239586196
ARUBRA_DN7189_c0_g1_i1_4	0	704	XP_018848330.1	dnaJ protein ERDJ2A	Juglans regia	XP_018848331.1
ARUBRA_DN17439_c0_g1_i1_4	3,15E-51	170	XP_018838095.1	3-hydroxyisobutyryl-CoA hydrolase-like protein 3, mitochondrial isoform X1	Juglans regia	XP_018838096.1
ARUBRA_DN23385_c0_g1_i1_4	7,30E-128	377	XP_018834513.1	clathrin interactor EPSIN 1	Juglans regia	XP_018834519.1
ARUBRA_DN3392_c0_g2_i1_2	7,75E-158	447	XP_018849757.1	fruit protein pKIWI502-like	Juglans regia	KDP34990.1
ARUBRA_DN16420_c0_g1_i1_5	5,18E-83	263	XP_018837506.1	glucosidase 2 subunit beta	Juglans regia	XP_004505348.1
ARUBRA_DN5780_c0_g1_i1_6	3,56E-75	226	OAY37574.1	hypothetical protein MANES_11G112000	Manihot esculenta	OAY52073.1
ARHOMBI_DN9968_c0_g1_i1_3	9,76E-09	54,7	XP_006606594.1	clathrin interactor EPSIN 2-like isoform X4	Glycine max	XP_018499212.1
ARUBRA_DN22029_c0_g1_i1_1	8,01E-80	257	XP_018840813.1	heat shock 70 kDa protein 15-like	Juglans regia	XP_018812010.1
ARHOMBI_DN6264_c0_g1_i2_1	1,07E-165	467	OAY23950.1	hypothetical protein MANES_18G120300	Manihot esculenta	OAY23951.1
ARUBRA_DN9942_c0_g1_i1_2	1,74E-91	270	XP_018837336.1	14 kDa zinc-binding protein	Juglans regia	ONI11561.1
ARHOMBI_DN10129_c0_g1_i1_4	2,20E-124	360	KDP30971.1	hypothetical protein JCGZ_11347	Jatropha curcas	XP_012079902.1
ARUBRA_DN4816_c0_g4_i1_1	3,98E-09	52,8	XP_004493946.1	40S ribosomal protein S23-2-like	Cicer arietinum	AAL50317.1
ARHOMBI_DN9150_c0_g1_i1_2	4,16E-179	518	XP_018849604.1	programmed cell death protein 4-like	Juglans regia	XP_018849604.1
ARHOMBI_DN18526_c0_g1_i1_5	1,14E-72	223	XP_018812655.1	14-3-3 protein 2-like	Juglans regia	XP_009375314.1
ARHOMBI_DN5512_c0_g1_i1_3	0	568	XP_018860411.1	coatomer subunit epsilon-1	Juglans regia	XP_018828599.1
ARUBRA_DN18242_c0_g1_i1_1	4,41E-117	350	XP_018839074.1	UDP-sugar pyrophosphorylase-like	Juglans regia	XP_018849179.1
ARUBRA_DN6103_c0_g1_i1_5	1,97E-111	328	XP_018815959.1	eukaryotic translation initiation factor 4E-1-like	Juglans regia	XP_004485968.1
ARHOMBI_DN4464_c0_g1_i1_6	1,10E-90	269	XP_018825729.1	universal stress protein PHOS32-like isoform X2	Juglans regia	KDP27925.1
ARUBRA_DN21777_c0_g1_i1_4	0	906	XP_018840722.1	alanine--tRNA ligase-like	Juglans regia	XP_018840731.1
ARHOMBI_DN6373_c0_g1_i1_1	2,32E-37	135	XP_018836625.1	tryptophan--tRNA ligase, cytoplasmic	Juglans regia	XP_019462109.1
ARUBRA_DN4890_c0_g2_i1_5	1,57E-118	343	XP_018850349.1	temperature-induced lipocalin-1	Juglans regia	XP_018850350.1
ARHOMBI_DN3410_c0_g1_i1_4	4,33E-127	379	XP_018835196.1	probable trehalase	Juglans regia	XP_018824320.1

ARUBRA_DN1360_c0_g2_i1_4	6,64E-133	381	XP_018808102.1	polyadenylate-binding protein 2-like isoform X1	Juglans regia	XP_018831192.1
ARUBRA_DN20255_c0_g1_i1_4	5,14E-51	176	XP_018807977.1	uncharacterized protein LOC108981316	Juglans regia	OAY29434.1
ARUBRA_DN12071_c0_g1_i1_2	3,03E-107	319	XP_018837387.1	acetyl-CoA acetyltransferase, cytosolic 1	Juglans regia	XP_008384188.1
ARUBRA_DN25817_c0_g1_i1_2	2,15E-28	106	XP_015942168.2	LOW QUALITY PROTEIN: reticulon-like protein B11	Arachis duranensis	XP_018827369.1
ARUBRA_DN24145_c0_g1_i1_1	1,15E-64	204	XP_018844342.1	3-isopropylmalate dehydrogenase 2, chloroplastic-like	Juglans regia	KDP37016.1
ARHOMBI_DN6283_c0_g6_i1_6	3,10E-89	261	ABS10822.1	elongation factor 1-alpha, partial	Phaseolus vulgaris	AAT72900.1
ARUBRA_DN3001_c0_g1_i1_6	2,17E-80	242	XP_018850228.1	uncharacterized protein At4g28440-like	Juglans regia	XP_009340594.1
ARUBRA_DN18461_c0_g1_i1_6	2,08E-31	111	XP_018852112.1	histone deacetylase 6	Juglans regia	XP_008373046.1
ARUBRA_DN10353_c1_g1_i1_5	1,16E-98	296	OIV95683.1	hypothetical protein TanjilG_01477	Lupinus angustifolius	XP_004500418.1
ARHOMBI_DN25343_c0_g1_i1_2	7,75E-106	311	KRH64548.1	hypothetical protein GLYMA_04G240600	Glycine max	XP_006578942.1
ARHOMBI_DN7398_c0_g1_i1_3	3,34E-112	332	XP_018812439.1	ferrochelatase-2, chloroplastic-like	Juglans regia	KDP34118.1
ARHOMBI_DN6728_c0_g1_i1_4	4,76E-119	357	XP_018820151.1	external alternative NAD(P)H-ubiquinone oxidoreductase B2, mitochondrial-like	Juglans regia	OAY24726.1
ARUBRA_DN3802_c0_g1_i1_4	0	553	ACN41352.2	protein phosphatase 2A regulatory subunit A, partial	Betula pendula	ACN41352.2
ARHOMBI_DN13057_c0_g1_i1_1	3,36E-133	380	XP_018843798.1	OTU domain-containing protein 6B	Juglans regia	XP_018843799.1
ARUBRA_DN9924_c0_g1_i1_4	0	709	XP_018850292.1	obg-like ATPase 1	Juglans regia	OAY60642.1
ARHOMBI_DN430_c0_g1_i1_3	0	539	XP_008235142.1	ATP-dependent Clp protease proteolytic subunit 5, chloroplastic	Prunus mume	ONH94009.1
ARUBRA_DN3936_c0_g2_i1_4	1,54E-74	229	XP_008218541.1	stearoyl-[acyl-carrier-protein 9-desaturase, chloroplastic-like	Prunus mume	ONI05270.1
ARUBRA_DN4814_c0_g1_i3_4	3,85E-108	315	XP_009345456.1	thaumatin-like protein	Pyrus x bretschneideri	XP_018828872.1
ARUBRA_DN2381_c0_g1_i1_1	0	696	XP_018821126.1	mannan endo-1,4-beta-mannosidase 7-like	Juglans regia	ABV32547.1
ARHOMBI_DN6212_c0_g1_i2_6	1,03E-102	298	KDP42594.1	hypothetical protein JCGZ_24368	Jatropha curcas	XP_012066576.1
ARUBRA_DN20443_c0_g1_i1_3	2,51E-109	325	XP_018850555.1	alanine aminotransferase 1, mitochondrial-like	Juglans regia	XP_018850554.1
ARHOMBI_DN11311_c0_g1_i1_5	6,88E-116	354	XP_018846984.1	calcium-transporting ATPase 4, plasma membrane-type-like isoform X2	Juglans regia	XP_018846983.1
ARHOMBI_DN17429_c0_g1_i1_6	3,84E-96	296	XP_018846638.1	uncharacterized protein LOC109010309	Juglans regia	XP_008393841.1
ARUBRA_DN3578_c0_g1_i1_4	2,20E-132	379	XP_008362670.1	ras-related protein RABF1 isoform X1	Malus domestica	XP_009350234.1
ARUBRA_DN11131_c0_g1_i1_3	3,39E-27	107	XP_018847349.1	plastidial pyruvate kinase 2	Juglans regia	OAY48391.1
ARHOMBI_DN4521_c1_g1_i1_1	1,93E-98	305	XP_020974231.1	cell division control protein 48 homolog E isoform X5	Arachis ipaensis	XP_020974232.1
ARHOMBI_DN17261_c0_g1_i1_1	1,90E-154	436	XP_018859762.1	LOW QUALITY PROTEIN: methionine adenosyltransferase 2 subunit beta	Juglans regia	OAY62334.1

ARUBRA_DN1069_c0_g2_i1_1	8,75E-54	178	XP_018838239.1	triose phosphate/phosphate translocator, non-green plastid, chloroplastic-like	Juglans regia	XP_018821285.1
ARHOMBI_DN5132_c0_g2_i1_6	8,22E-28	103	XP_018824900.1	mitochondrial import receptor subunit TOM5 homolog	Juglans regia	OAY47495.1
ARUBRA_DN3311_c0_g1_i1_6	1,33E-31	118	XP_018827585.1	fumarylacetoacetase	Juglans regia	KDP37782.1
ARUBRA_DN8175_c0_g1_i1_5	0	831	XP_018815758.1	phosphoglucan, water dikinase, chloroplastic isoform X2	Juglans regia	XP_018815757.1
ARUBRA_DN16564_c0_g1_i1_6	3,67E-73	226	XP_018839578.1	3-hydroxyisobutyryl-CoA hydrolase-like protein 2, mitochondrial	Juglans regia	ONI32914.1
ARUBRA_DN19149_c0_g1_i1_6	0	911	XP_018835655.1	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase-like isoform X2	Juglans regia	XP_018835648.1
ARUBRA_DN5180_c0_g1_i1_3	1,45E-75	233	XP_008237176.1	endoplasmic reticulum-Golgi intermediate compartment protein 3-like	Prunus mume	XP_018836846.1
ARUBRA_DN20917_c0_g1_i1_3	5,13E-69	208	XP_018846675.1	peptidyl-prolyl cis-trans isomerase CYP18-1-like	Juglans regia	XP_018806960.1
ARHOMBI_DN20733_c0_g1_i1_3	6,90E-70	219	OAY60676.1	hypothetical protein MANES_01G130700	Manihot esculenta	XP_018828199.1
ARUBRA_DN10088_c0_g1_i1_1	1,28E-136	395	XP_018844904.1	aldehyde dehydrogenase family 7 member A1 isoform X1	Juglans regia	XP_018844905.1
ARHOMBI_DN19569_c0_g1_i1_5	5,52E-116	333	OAY53361.1	hypothetical protein MANES_04G157000	Manihot esculenta	XP_018818270.1
ARUBRA_DN2998_c0_g1_i1_1	5,41E-97	296	XP_018858960.1	clathrin light chain 2-like	Juglans regia	AFK42367.1
ARUBRA_DN1494_c0_g1_i1_3	0	1521	XP_018848396.1	ferredoxin-dependent glutamate synthase, chloroplastic	Juglans regia	XP_018826303.1
ARHOMBI_DN4699_c0_g1_i1_3	0	515	XP_018856419.1	uncharacterized protein LOC109018719	Juglans regia	XP_018856421.1
ARHOMBI_DN5814_c0_g1_i1_4	0	683	XP_018819958.1	malate dehydrogenase, glyoxysomal-like	Juglans regia	XP_018829628.1
ARHOMBI_DN21914_c0_g1_i1_1	2,60E-53	170	AFH88395.1	glyceraldehyde-3-phosphate dehydrogenase, partial	Eriobotrya japonica	XP_007137942.1
ARHOMBI_DN5567_c0_g1_i1_3	0	844	XP_018841744.1	oxysterol-binding protein-related protein 3A	Juglans regia	XP_018807417.1
ARUBRA_DN1463_c0_g2_i1_5	0	805	XP_012084017.1	transmembrane 9 superfamily member 12	Jatropha curcas	KDP45164.1
ARHOMBI_DN17982_c0_g1_i1_5	5,98E-89	268	XP_018826547.1	aldose 1-epimerase	Juglans regia	XP_008239819.1
ARUBRA_DN2123_c0_g2_i1_3	7,72E-134	407	XP_018828478.1	ubiquitin-activating enzyme E1 1	Juglans regia	XP_018828479.1
ARHOMBI_DN2126_c0_g2_i1_6	1,10E-77	248	XP_018814287.1	methyl-CpG-binding domain-containing protein 11-like isoform X1	Juglans regia	XP_018814287.1
ARUBRA_DN8853_c0_g1_i1_6	2,77E-52	165	XP_008347076.1	NAD-dependent malic enzyme 1, mitochondrial-like	Malus domestica	XP_019462740.1
ARUBRA_DN1745_c0_g2_i1_1	7,41E-67	211	XP_018824705.1	acetylornithine deacetylase	Juglans regia	XP_008238268.1
ARHOMBI_DN3877_c0_g1_i1_1	1,51E-96	284	XP_018827791.1	probable carboxylesterase SOBER1-like	Juglans regia	OAY25864.1
ARUBRA_DN3955_c0_g2_i1_2	2,29E-31	110	XP_018836020.1	uncharacterized protein LOC109002634	Juglans regia	XP_018823193.1

ARUBRA_DN8757_c0_g1_i1_5	4,77E-127	363	XP_018829348.1	uncharacterized protein At4g14100-like isoform X1	Juglans regia	XP_018841627.1
ARHOMBI_DN1665_c0_g1_i1_2	5,03E-169	476	XP_018824435.1	mitochondrial import receptor subunit TOM40-1-like	Juglans regia	XP_018815797.1
ARHOMBI_DN11418_c0_g1_i1_2	1,65E-44	155	XP_018806016.1	vacuolar-sorting receptor 3-like	Juglans regia	XP_018846135.1
ARHOMBI_DN8306_c0_g1_i1_4	9,10E-86	254	XP_018825134.1	ubiquitin carboxyl-terminal hydrolase 3-like	Juglans regia	XP_018825135.1
ARUBRA_DN20020_c0_g1_i1_2	2,06E-41	149	XP_018817298.1	protein transport protein SEC31 homolog B-like isoform X2	Juglans regia	XP_018817293.1
ARUBRA_DN148_c0_g1_i1_1	1,52E-58	185	XP_018830706.1	CDGSH iron-sulfur domain-containing protein NEET	Juglans regia	XP_020221377.1
ARHOMBI_DN25089_c0_g1_i1_1	1,60E-89	276	XP_018806898.1	lysine--tRNA ligase, cytoplasmic isoform X2	Juglans regia	XP_018806897.1
ARUBRA_DN11014_c0_g1_i1_6	8,02E-50	164	XP_018818410.1	probable choline kinase 2	Juglans regia	OAY36267.1
ARHOMBI_DN18155_c0_g1_i1_2	1,00E-99	293	XP_018827856.1	thioredoxin domain-containing protein 9 homolog	Juglans regia	OAY45497.1
ARUBRA_DN5032_c2_g1_i2_2	9,35E-74	226	KDP45286.1	hypothetical protein JCGZ_15151	Jatropha curcas	OAY34830.1
ARHOMBI_DN5326_c0_g1_i1_3	1,98E-83	249	XP_018813019.1	uncharacterized protein LOC108985261	Juglans regia	XP_018844572.1
ARHOMBI_DN15674_c0_g1_i1_5	3,28E-48	155	XP_009371619.1	phosphopantetheine adenylyltransferase-like isoform X1	Pyrus x bretschneideri	XP_018820994.1
ARHOMBI_DN5386_c1_g1_i2_5	4,38E-97	295	XP_018823251.1	THO complex subunit 4A-like isoform X1	Juglans regia	XP_018836017.1
ARUBRA_DN4407_c0_g4_i1_6	4,07E-115	332	ONI18797.1	hypothetical protein PRUPE_3G239900	Prunus persica	XP_007215041.1
ARHOMBI_DN17588_c0_g1_i1_4	1,24E-53	176	XP_018816946.1	eukaryotic translation initiation factor 3 subunit M-like	Juglans regia	XP_008231016.1
ARHOMBI_DN7219_c0_g1_i1_3	9,54E-43	150	XP_018807664.1	subtilisin-like protease SBT1.7, partial	Juglans regia	OAY33654.1
ARHOMBI_DN7958_c0_g1_i1_4	1,40E-39	138	XP_018815797.1	mitochondrial import receptor subunit TOM40-1-like	Juglans regia	XP_018824435.1
ARUBRA_DN4721_c0_g1_i2_1	7,12E-76	246	XP_018825127.1	plasminogen activator inhibitor 1 RNA-binding protein	Juglans regia	OAY60106.1
ARHOMBI_DN5441_c0_g1_i1_5	1,62E-89	273	XP_018851989.1	universal stress protein PHOS32-like isoform X2	Juglans regia	XP_018851981.1
ARUBRA_DN7416_c0_g1_i1_6	0	680	XP_018847636.1	ornithine aminotransferase, mitochondrial-like	Juglans regia	XP_018819712.1
ARUBRA_DN6341_c0_g1_i1_1	5,71E-105	324	XP_018816636.1	NADH dehydrogenase ubiquinone iron-sulfur protein 1, mitochondrial	Juglans regia	XP_008381363.1
ARUBRA_DN25250_c0_g1_i1_2	4,21E-55	187	XP_018809947.1	eukaryotic translation initiation factor 3 subunit A-like	Juglans regia	XP_018841709.1
ARUBRA_DN12031_c0_g1_i1_3	2,08E-37	132	XP_018816770.1	pyridoxal kinase-like isoform X1	Juglans regia	ONI17422.1
ARUBRA_DN9279_c0_g1_i1_5	3,18E-42	149	KDP38191.1	hypothetical protein JCGZ_04834	Jatropha curcas	XP_012072397.1
ARHOMBI_DN3515_c0_g1_i1_3	2,96E-71	217	XP_018857344.1	3-oxoacyl-[acyl-carrier-protein reductase, chloroplastic	Juglans regia	OAY34372.1

ARHOMBI_DN4682_c0_g1_i1_3	6,04E-26	101	XP_018852998.1	60S acidic ribosomal protein P3-like	Juglans regia	XP_018860534.1
ARHOMBI_DN23760_c0_g1_i1_6						
ARHOMBI_DN15221_c0_g1_i1_1	1,45E-55	182	OIW15548.1	hypothetical protein TanjilG_01071	Lupinus angustifolius	OIW15548.1
ARHOMBI_DN9078_c0_g1_i1_6	6,22E-94	286	XP_018839513.1	nicalin-1 isoform X1	Juglans regia	XP_018839514.1
ARUBRA_DN11010_c0_g1_i1_3	1,32E-82	248	KHN24774.1	Eukaryotic translation initiation factor 3 subunit D	Glycine soja	KOM53769.1
ARUBRA_DN17427_c0_g1_i1_4	6,10E-71	216	XP_018822168.1	peptidyl-prolyl cis-trans isomerase CYP21-4-like	Juglans regia	XP_018842322.1
ARUBRA_DN20283_c0_g1_i1_1	1,84E-154	448	XP_018821744.1	probable alpha-galactosidase B	Juglans regia	OAY32489.1
ARUBRA_DN18073_c0_g1_i1_6	7,15E-137	389	XP_018850344.1	VAMP-like protein YKT61	Juglans regia	XP_018833476.1
ARUBRA_DN4594_c0_g2_i1_4	0	839	XP_018818227.1	serine carboxypeptidase-like 20	Juglans regia	XP_004510209.1
ARUBRA_DN4871_c0_g2_i1_3	0	616	XP_018808617.1	receptor-like protein kinase HAIKU2	Juglans regia	XP_018808617.1
ARHOMBI_DN5577_c1_g1_i1_5	9,11E-115	348	XP_018822921.1	methionine--tRNA ligase, cytoplasmic	Juglans regia	KDP39347.1
ARHOMBI_DN21271_c0_g1_i1_1	2,29E-68	213	XP_018845017.1	probable 2-oxoglutarate-dependent dioxygenase At3g49630 isoform X2	Juglans regia	XP_018845016.1
ARUBRA_DN8542_c0_g1_i1_4	1,28E-118	348	XP_018825622.1	heterogeneous nuclear ribonucleoprotein 1	Juglans regia	KDP39313.1
ARHOMBI_DN10118_c0_g1_i1_1	6,38E-53	166	AAC19381.1	inosine-5'-monophosphate dehydrogenase, partial	Prunus persica	XP_020963350.1
ARUBRA_DN18680_c0_g1_i1_3	5,83E-137	393	XP_018825911.1	ERBB-3 BINDING PROTEIN 1 isoform X2	Juglans regia	XP_018825910.1
ARUBRA_DN2284_c0_g2_i1_3	4,42E-150	427	XP_018842516.1	rhodanese-like/PpiC domain-containing protein 12, chloroplastic	Juglans regia	XP_018842517.1
ARUBRA_DN7415_c0_g1_i1_6	6,48E-170	483	XP_018831898.1	UDP-glucose 6-dehydrogenase 3	Juglans regia	XP_018818494.1
ARUBRA_DN113_c0_g1_i2_3	8,46E-143	404	XP_018839374.1	proteasome subunit beta type-2-A	Juglans regia	XP_018812168.1
ARHOMBI_DN26770_c0_g1_i1_3	6,65E-63	209	XP_018807321.1	aconitate hydratase 1	Juglans regia	KDP23953.1
ARHOMBI_DN16112_c0_g1_i1_2	5,91E-107	314	KDP41839.1	hypothetical protein JCGZ_26857	Jatropha curcas	XP_012067332.1
ARUBRA_DN17277_c0_g1_i1_1	4,93E-51	162	XP_018839925.1	dormancy-associated protein homolog 4 isoform X1	Juglans regia	XP_008228141.1
ARHOMBI_DN1288_c0_g1_i1_2	1,35E-22	92,4	AFK35200.1	unknown	Medicago truncatula	KEH24737.1
ARUBRA_DN70_c0_g1_i1_1	1,62E-135	390	XP_018843274.1	clavaminate synthase-like protein At3g21360	Juglans regia	XP_009353541.1
ARUBRA_DN18307_c0_g1_i1_1	0	526	XP_018833905.1	3-oxo-Delta(4,5)-steroid 5-beta-reductase-like	Juglans regia	XP_018836149.1
ARUBRA_DN17020_c0_g1_i1_1	0	669	XP_018819162.1	eukaryotic translation initiation factor 4G-like isoform X1	Juglans regia	XP_018819170.1
ARUBRA_DN4917_c0_g1_i2_1	1,77E-170	483	XP_018850886.1	ribulose-phosphate 3-epimerase, chloroplastic	Juglans regia	KYP55554.1
ARHOMBI_DN5372_c0_g1_i1_3	8,30E-121	347	XP_018836138.1	probable signal peptidase complex subunit 2	Juglans regia	XP_009350939.1

ARHOMBI_DN24609_c0_g1_i1_6	5,10E-55	179	OAY25201.1	hypothetical protein MANES_17G074700	Manihot esculenta	XP_018820972.1
ARHOMBI_DN2660_c0_g1_i1_5	1,00E-141	412	XP_018845609.1	oligouridylate-binding protein 1B-like	Juglans regia	XP_018845609.1
ARUBRA_DN16475_c0_g1_i1_2	6,91E-41	147	XP_018807473.1	uncharacterized protein LOC108980890	Juglans regia	ONH99277.1
ARUBRA_DN23765_c0_g1_i1_1	1,60E-46	157	XP_018822676.1	GDSL esterase/lipase At3g26430-like	Juglans regia	XP_012085878.1
ARHOMBI_DN22879_c0_g1_i1_2	5,36E-128	381	XP_018860049.1	vesicle-fusing ATPase	Juglans regia	XP_018860050.1
ARUBRA_DN8139_c0_g1_i1_1	4,44E-97	287	XP_018826389.1	probable NAD(P)H dehydrogenase (quinone) FQR1-like 2	Juglans regia	XP_019422117.1
ARUBRA_DN1221_c0_g2_i1_5	2,52E-75	223	KDP44839.1	hypothetical protein JCGZ_01339	Jatropha curcas	XP_012088066.1
ARHOMBI_DN14041_c0_g1_i1_6	1,43E-33	125	OAY27593.1	hypothetical protein MANES_16G137600	Manihot esculenta	XP_018845600.1
ARUBRA_DN4848_c0_g1_i1_3	3,60E-18	82	XP_016181529.1	stromal cell-derived factor 2-like protein	Arachis ipaensis	XP_016181529.1
ARUBRA_DN25967_c0_g1_i1_1	9,64E-73	218	OIW11578.1	hypothetical protein TanjilG_26944	Lupinus angustifolius	XP_019443882.1
ARUBRA_DN6775_c0_g1_i1_1	6,04E-98	288	XP_018860616.1	protein canopy-1	Juglans regia	XP_008237962.1
ARHOMBI_DN4127_c0_g1_i1_6	0	640	AIE47268.1	glucose-6-phosphate dehydrogenase	Hevea brasiliensis	XP_018846380.1
ARUBRA_DN6005_c0_g1_i1_2	5,11E-36	132	XP_018845600.1	L-arabinokinase-like	Juglans regia	OAY27593.1
ARUBRA_DN9533_c0_g1_i1_6	7,02E-59	194	XP_018816821.1	2-hydroxyacyl-CoA lyase	Juglans regia	OAY60450.1
ARUBRA_DN4945_c1_g1_i1_4	3,62E-160	465	KDP33769.1	hypothetical protein JCGZ_07340	Jatropha curcas	XP_012076828.1
ARUBRA_DN2632_c0_g1_i1_5	0	568	XP_018856841.1	quinone oxidoreductase PIG3-like	Juglans regia	XP_016179633.1
ARUBRA_DN253_c0_g2_i1_2	7,88E-30	106	XP_004487852.2	40S ribosomal protein S21-2	Cicer arietinum	XP_004504058.1
ARUBRA_DN4035_c0_g2_i1_1	0	852	XP_018818699.1	serine carboxypeptidase II-2	Juglans regia	XP_008243035.1
ARHOMBI_DN5174_c0_g1_i1_1	6,43E-96	285	XP_018820980.1	isoflavone reductase-like protein	Juglans regia	XP_018820986.1
ARUBRA_DN3267_c0_g1_i1_6	9,60E-124	362	XP_018829231.1	reticulon-like protein B2	Juglans regia	XP_014510434.1
ARUBRA_DN12853_c0_g1_i1_1	5,14E-68	209	BAT89111.1	hypothetical protein VIGAN_05280500	Vigna angularis var. angularis	XP_007146040.1
ARHOMBI_DN20424_c0_g1_i1_6	5,08E-65	206	KDP43068.1	hypothetical protein JCGZ_25254	Jatropha curcas	XP_012066099.1
ARUBRA_DN4281_c0_g1_i1_1	0	751	OAY47083.1	hypothetical protein MANES_06G050800	Manihot esculenta	XP_008242710.1
ARHOMBI_DN3485_c0_g1_i1_4	1,51E-103	303	XP_018828370.1	nucleoid-associated protein At4g30620, chloroplastic-like	Juglans regia	XP_015933002.1
ARUBRA_DN18869_c0_g1_i1_5	0	612	XP_018836294.1	arginine--tRNA ligase, cytoplasmic-like isoform X1	Juglans regia	XP_018836295.1
ARHOMBI_DN804_c0_g1_i1_6	3,08E-85	254	XP_018837605.1	proliferating cell nuclear antigen-like	Juglans regia	XP_018842612.1
ARUBRA_DN1537_c0_g1_i1_2	1,36E-66	205	XP_018852254.1	glycine-rich RNA-binding protein 4, mitochondrial	Juglans regia	XP_008226798.1
ARUBRA_DN1957_c0_g2_i1_6	1,14E-95	293	XP_018836294.1	arginine--tRNA ligase, cytoplasmic-like isoform X1	Juglans regia	XP_008242476.1
ARUBRA_DN6807_c0_g1_i1_3	8,80E-165	466	XP_018857179.1	diaminopimelate decarboxylase 2, chloroplastic-like, partial	Juglans regia	XP_008236927.1
ARUBRA_DN4637_c0_g2_i1_1	0	747	XP_018816480.1	S-adenosylmethionine synthase 5-like	Juglans regia	XP_020223541.1

ARHOMBI_DN6131_c0_g1_i4_6	0	523	XP_018844199.1	putative quinone-oxidoreductase homolog, chloroplastic	Juglans regia	XP_018850172.1
ARUBRA_DN5357_c0_g1_i1_1	6,48E-95	293	XP_008223754.1	lysine--tRNA ligase, cytoplasmic	Prunus mume	XP_018806898.1
ARUBRA_DN2637_c0_g1_i1_4	1,14E-119	345	XP_018820087.1	tankyrase	Juglans regia	OIV89168.1
ARHOMBI_DN16197_c0_g1_i1_4	1,63E-114	344	XP_018811770.1	target of Myb protein 1-like	Juglans regia	XP_018845550.1
ARUBRA_DN10661_c0_g1_i1_4	2,48E-163	472	XP_018842287.1	probable methyltransferase PMT3	Juglans regia	XP_018808117.1
ARHOMBI_DN4011_c0_g2_i1_5						
ARUBRA_DN4545_c0_g1_i1_5	4,32E-85	255	XP_018826140.1	endo-1,3;1,4-beta-D-glucanase-like isoform X1	Juglans regia	XP_018826141.1
ARUBRA_DN22266_c0_g1_i1_1	8,87E-108	321	XP_018833157.1	serine carboxypeptidase-like 51	Juglans regia	XP_018833716.1
ARUBRA_DN9362_c0_g1_i1_5	2,08E-61	189	XP_018813900.1	UPF0235 protein C15orf40 homolog	Juglans regia	ACU16361.1
ARUBRA_DN22269_c0_g1_i1_4	8,53E-40	137	XP_018814804.1	protein phosphatase 1 regulatory subunit pprA	Juglans regia	XP_008242516.1
ARHOMBI_DN3395_c0_g2_i1_6	2,54E-172	484	XP_012076496.1	protein MEMO1	Jatropha curcas	OAY27428.1
ARUBRA_DN18997_c0_g1_i1_6	0	1020	XP_018856581.1	carotenoid 9,10(9',10')-cleavage dioxygenase 1	Juglans regia	ONI20422.1
ARHOMBI_DN6095_c0_g1_i1_4	0	668	XP_018852657.1	dnaJ protein homolog	Juglans regia	XP_018805733.1
ARHOMBI_DN1066_c0_g2_i1_3	1,88E-72	228	XP_008350414.1	protein GPR107-like	Malus domestica	XP_008366712.1
ARHOMBI_DN14495_c0_g1_i1_4	2,21E-41	143	XP_018815296.1	V-type proton ATPase subunit a3-like	Juglans regia	XP_018840323.1
ARUBRA_DN10359_c0_g1_i1_4	0	612	OAY29373.1	hypothetical protein MANES_15G139700	Manihot esculenta	XP_019463977.1
ARUBRA_DN20926_c0_g1_i1_1	1,48E-38	141	XP_018832881.1	staphylococcal nuclease domain-containing protein 1-like	Juglans regia	XP_018832881.1
ARHOMBI_DN3507_c0_g1_i1_4	0	644	XP_018848804.1	E3 ubiquitin-protein ligase RHF2A-like	Juglans regia	XP_018851155.1
ARHOMBI_DN25279_c0_g1_i1_2	1,51E-45	154	XP_018808619.1	tubulin alpha chain-like isoform X2	Juglans regia	XP_018822099.1
ARHOMBI_DN4819_c0_g1_i1_1	0	689	XP_018820447.1	T-complex protein 1 subunit epsilon	Juglans regia	KDP26716.1
ARHOMBI_DN6082_c0_g1_i3_5	2,42E-49	164	XP_016650474.1	glycine-rich RNA-binding protein GRP1A	Prunus mume	ONH91156.1
ARUBRA_DN24896_c0_g1_i1_3	3,60E-47	156	OAY56694.1	hypothetical protein MANES_02G037700	Manihot esculenta	OAY56891.1
ARUBRA_DN6755_c0_g1_i1_2	7,34E-93	289	XP_018847996.1	importin subunit alpha-1a-like	Juglans regia	XP_018847993.1
ARHOMBI_DN5218_c0_g1_i2_1	0	519	XP_018837992.1	uncharacterized protein LOC109004054	Juglans regia	XP_018837993.1
ARUBRA_DN25837_c0_g1_i1_3	4,34E-88	261	KHN16764.1	6-phosphogluconate dehydrogenase, decarboxylating	Glycine soja	OAY56407.1
ARUBRA_DN24388_c0_g1_i1_4	8,41E-20	85,9	XP_018851380.1	uncharacterized protein LOC109013676	Juglans regia	KHN34605.1
ARHOMBI_DN11066_c0_g1_i1_4	3,77E-64	205	OIW06914.1	hypothetical protein TanjilG_19563	Lupinus angustifolius	XP_019452505.1
ARUBRA_DN3745_c0_g2_i1_2	7,70E-54	170	XP_018826216.1	uncharacterized protein At5g01610-like	Juglans regia	XP_018809179.1
ARUBRA_DN14017_c0_g1_i1_3	2,50E-15	73,2	OAY48578.1	hypothetical protein MANES_06G168500	Manihot esculenta	XP_018851510.1
ARUBRA_DN145_c0_g1_i1_4	1,03E-57	187	XP_018828823.1	rhomboid-like protein 19	Juglans regia	XP_008236446.1
ARUBRA_DN11007_c0_g1_i1_2	9,09E-52	170	XP_018836308.1	uncharacterized protein LOC109002851	Juglans regia	XP_008224696.1

ARUBRA_DN9096_c0_g1_i1_3	1,70E-18	82	ONH97426.1	hypothetical protein PRUPE_7G189500	Prunus persica	ONH97424.1
ARHOMBI_DN4782_c0_g1_i1_2	0	1031	XP_018840640.1	cullin-1-like	Juglans regia	XP_018826086.1
ARHOMBI_DN2849_c0_g1_i1_3	0	580	XP_018821210.1	dnaJ protein ERDJ3B	Juglans regia	OIW17431.1
ARHOMBI_DN7054_c0_g1_i1_3	3,31E-168	493	XP_007141284.1	hypothetical protein PHAVU_008G183200g	Phaseolus vulgaris	ESW13278.1
ARHOMBI_DN2798_c0_g1_i1_2	0	718	XP_018855488.1	protein TOC75-3, chloroplastic-like	Juglans regia	ONI00157.1
ARUBRA_DN18224_c0_g1_i1_4	1,33E-86	271	XP_018857284.1	villin-2-like isoform X2	Juglans regia	XP_018857284.1
ARHOMBI_DN25584_c0_g1_i1_5	4,87E-21	84,3	OIW09151.1	hypothetical protein TanjilG_11289	Lupinus angustifolius	XP_019447899.1
ARHOMBI_DN3781_c0_g2_i1_5	2,12E-102	303	XP_018805307.1	ATP-dependent Clp protease ATP-binding subunit CLPT1, chloroplastic	Juglans regia	XP_008231397.1
ARHOMBI_DN7337_c0_g1_i1_1	2,12E-26	109	XP_018821135.1	protein RCC2 homolog	Juglans regia	KDP36956.1
ARHOMBI_DN5812_c2_g1_i1_3	9,59E-96	288	XP_018835421.1	eukaryotic translation initiation factor 5-like isoform X2	Juglans regia	XP_018835420.1
ARUBRA_DN4150_c2_g1_i1_4	7,03E-110	315	KYP67019.1	Ras-related protein RABH1B	Cajanus cajan	XP_018843528.1
ARHOMBI_DN1574_c0_g1_i1_4	2,17E-101	294	XP_008366394.1	T-complex protein 1 subunit eta-like	Malus domestica	XP_008363557.2
ARUBRA_DN8202_c0_g1_i1_4	2,73E-95	285	XP_018860318.1	protein PHR1-LIKE 2-like	Juglans regia	XP_018837130.1
ARUBRA_DN1551_c0_g1_i1_5	1,74E-27	107	XP_018824867.1	ras GTPase-activating protein-binding protein 2 isoform X1	Juglans regia	XP_018824868.1
ARUBRA_DN12626_c0_g1_i1_3	7,28E-118	343	XP_018815857.1	chloride conductance regulatory protein ICln isoform X1	Juglans regia	KDP22395.1
ARHOMBI_DN4054_c0_g1_i1_3	4,16E-76	230	ACJ86035.1	unknown	Medicago truncatula	AFK46052.1
ARUBRA_DN9286_c0_g1_i1_1	1,47E-134	382	XP_018820201.1	stem-specific protein TSJT1-like	Juglans regia	ONI10376.1
ARHOMBI_DN3767_c0_g1_i1_1	5,33E-72	216	ONI04863.1	hypothetical protein PRUPE_6G344500	Prunus persica	XP_007206144.1
ARUBRA_DN20292_c0_g1_i1_6	3,59E-168	479	XP_018857004.1	4-hydroxyphenylpyruvate dioxygenase	Juglans regia	OAY57333.1
ARHOMBI_DN2005_c0_g1_i1_5	3,61E-63	196	XP_018814411.1	uncharacterized protein LOC108986289	Juglans regia	KDP21869.1
ARUBRA_DN4908_c0_g2_i1_1	2,22E-132	386	XP_018854291.1	uncharacterized protein LOC109016313	Juglans regia	OAY62495.1
ARUBRA_DN1276_c0_g1_i1_4	1,21E-156	446	XP_008351677.1	serine/threonine-protein phosphatase PP2A catalytic subunit	Malus domestica	XP_008384402.1
ARUBRA_DN4583_c0_g1_i2_5	2,03E-46	155	XP_018836815.1	uncharacterized protein LOC109003223	Juglans regia	XP_018836816.1
ARHOMBI_DN4896_c0_g1_i3_2	1,41E-65	203	ONI33798.1	hypothetical protein PRUPE_1G446400	Prunus persica	XP_007226749.2
ARUBRA_DN12695_c0_g1_i1_2	1,75E-41	143	XP_008238951.1	uncharacterized protein LOC103337565	Prunus mume	ONI07201.1
ARHOMBI_DN15171_c0_g1_i1_3	8,58E-102	305	XP_008237316.1	LOW QUALITY PROTEIN: dihydrolipoyllysine-residue acetyltransferase component 5 of pyruvate dehydrogenase complex, chloroplastic	Prunus mume	KDP47113.1
ARHOMBI_DN7103_c0_g1_i1_1	5,99E-45	150	XP_018845017.1	probable 2-oxoglutarate-dependent dioxygenase At3g49630 isoform X2	Juglans regia	KRH04548.1
ARHOMBI_DN5209_c1_g1_i1_4	8,03E-139	419	XP_018817247.1	calcium-transporting ATPase 1, endoplasmic reticulum-type-like	Juglans regia	XP_018818320.1
ARHOMBI_DN22071_c0_g1_i1_3	2,92E-81	252	XP_009344764.1	uncharacterized protein LOC103936642 isoform X3	Pyrus x bretschneideri	XP_008368102.1

ARHOMBI_DN1841_c0_g2_i1_2	2,86E-147	434	XP_018836272.1	cell division cycle protein 48 homolog	Juglans regia	XP_018836272.1
ARUBRA_DN563_c0_g1_i1_2	2,54E-123	356	XP_018848102.1	dehydrogenase/reductase SDR family member 12 isoform X2	Juglans regia	XP_018848101.1
ARUBRA_DN24632_c0_g1_i1_4	9,96E-58	188	OAY48675.1	hypothetical protein MANES_06G176400	Manihot esculenta	ACU18322.1
ARUBRA_DN3539_c0_g1_i1_2	4,93E-175	489	XP_018859721.1	uncharacterized protein LOC109021532	Juglans regia	XP_008244645.1
ARUBRA_DN1361_c0_g2_i1_4	1,33E-97	285	XP_018850281.1	NADH dehydrogenase ubiquinone 1 alpha subcomplex subunit 13-B-like	Juglans regia	XP_018839306.1
ARUBRA_DN11150_c0_g1_i1_6	3,56E-55	179	KDP46339.1	hypothetical protein JCGZ_10179	Jatropha curcas	XP_012071167.1
ARHOMBI_DN1996_c0_g2_i1_5	3,47E-90	281	XP_018841544.1	ubiquitin domain-containing protein DSK2a-like isoform X3	Juglans regia	XP_018841544.1
ARHOMBI_DN2999_c0_g1_i1_4	0	622	XP_018815793.1	eukaryotic translation initiation factor 3 subunit H	Juglans regia	OAY60536.1
ARHOMBI_DN2060_c0_g1_i1_5	1,59E-127	391	KDP41738.1	hypothetical protein JCGZ_26756	Jatropha curcas	XP_012067196.1
ARUBRA_DN9709_c0_g1_i1_6	2,25E-61	200	XP_018824867.1	ras GTPase-activating protein-binding protein 2 isoform X1	Juglans regia	XP_018824868.1
ARHOMBI_DN23173_c0_g1_i1_6	4,60E-70	224	XP_018851869.1	diacylglycerol kinase 5-like	Juglans regia	KRH26026.1
ARHOMBI_DN10290_c0_g1_i1_3	2,82E-23	97,1	XP_018848084.1	polyadenylate-binding protein 3	Juglans regia	XP_018807796.1
ARUBRA_DN2965_c0_g1_i2_5	2,60E-165	467	XP_018833326.1	protein-L-isoaspartate O-methyltransferase 1-like	Juglans regia	XP_008239363.1
ARUBRA_DN3863_c1_g1_i1_5	0	541	XP_009345628.1	PTI1-like tyrosine-protein kinase 1 isoform X1	Pyrus x bretschneideri	XP_009345630.1
ARHOMBI_DN10379_c0_g1_i1_2	6,88E-86	273	XP_008386852.1	5-methyltetrahydropteroyltriglutamate--homocysteine methyltransferase-like	Malus domestica	XP_008386853.1
ARHOMBI_DN2726_c0_g1_i1_1	5,05E-66	207	XP_018821762.1	uncharacterized protein LOC108991825	Juglans regia	XP_018838963.1
ARUBRA_DN7712_c0_g1_i1_6	6,70E-64	212	OAY28247.1	hypothetical protein MANES_15G052800	Manihot esculenta	OAY55369.1
ARUBRA_DN4320_c0_g1_i1_6	2,69E-175	491	XP_018835690.1	eukaryotic translation initiation factor 2 subunit beta-like	Juglans regia	XP_018828541.1
ARUBRA_DN11275_c0_g1_i1_5	7,60E-55	181	XP_018850953.1	dual specificity protein phosphatase 12-like	Juglans regia	XP_018850954.1
ARHOMBI_DN8255_c0_g1_i1_2	3,04E-160	460	XP_018820151.1	external alternative NAD(P)H-ubiquinone oxidoreductase B2, mitochondrial-like	Juglans regia	ONI10254.1
ARUBRA_DN13834_c0_g1_i1_4	1,37E-55	174	XP_008392677.1	probable methyltransferase PMT18	Malus domestica	OAY59057.1
ARUBRA_DN19618_c0_g1_i1_4	0	533	XP_018842610.1	neutral ceramidase-like	Juglans regia	ONI00029.1
ARUBRA_DN1773_c0_g2_i1_6	4,52E-66	211	XP_018816505.1	probable L-cysteine desulfhydrase, chloroplastic	Juglans regia	XP_018816506.1
ARUBRA_DN1305_c0_g1_i1_6	0	526	XP_018806331.1	60S ribosomal protein L3-2	Juglans regia	XP_018806332.1
ARHOMBI_DN3128_c0_g1_i1_1	1,26E-163	469	ONI03290.1	hypothetical protein PRUPE_6G249100	Prunus persica	XP_007205407.1
ARHOMBI_DN20118_c0_g1_i1_1	2,44E-75	239	XP_008235570.1	uncharacterized protein LOC103334389	Prunus mume	ONI20178.1
ARHOMBI_DN2022_c0_g1_i1_1	3,25E-69	210	XP_018812852.1	uncharacterized protein At2g34160-like	Juglans regia	OAY27368.1

ARHOMBI_DN3079_c0_g1_i1_3	0	656	XP_018808362.1	porphobilinogen deaminase, chloroplastic isoform X1	Juglans regia	KDP37560.1
ARHOMBI_DN8476_c0_g1_i1_3	3,21E-91	268	XP_018851840.1	succinate dehydrogenase subunit 6, mitochondrial	Juglans regia	OAY37464.1
ARHOMBI_DN4305_c0_g1_i2_6	3,35E-98	292	XP_018808868.1	nifU-like protein 1, chloroplastic	Juglans regia	ALP70497.1
ARUBRA_DN10474_c0_g1_i1_2	6,58E-96	284	AES60048.1	serine/threonine protein phosphatase 2A	Medicago truncatula	XP_003589797.1
ARHOMBI_DN6299_c0_g1_i1_1	2,38E-74	238	OAY50416.1	hypothetical protein MANES_05G133800	Manihot esculenta	OAY50415.1
ARHOMBI_DN3992_c0_g1_i1_6	0	700	XP_018846135.1	vacuolar-sorting receptor 3-like	Juglans regia	XP_018846136.1
ARUBRA_DN8631_c0_g1_i1_6	1,95E-74	233	XP_018841097.1	probable WRKY transcription factor 3 isoform X2	Juglans regia	XP_018841096.1
ARUBRA_DN158_c0_g1_i1_2	2,83E-156	456	XP_018844637.1	far upstream element-binding protein 2 isoform X1	Juglans regia	XP_018844638.1
ARUBRA_DN6110_c0_g1_i1_1	3,31E-64	199	XP_018807798.1	uncharacterized protein LOC108981167	Juglans regia	XP_018807799.1
ARUBRA_DN4152_c0_g1_i1_5	2,52E-72	220	XP_018825467.1	ankyrin repeat-containing protein P16F5.05c isoform X2	Juglans regia	XP_018825466.1
ARHOMBI_DN20386_c0_g1_i1_1	1,02E-78	239	ONI27997.1	hypothetical protein PRUPE_1G116000	Prunus persica	XP_007223205.1
ARUBRA_DN3314_c0_g1_i1_4	3,45E-62	195	XP_018833952.1	acyl carrier protein 1, chloroplastic-like	Juglans regia	XP_018840027.1
ARHOMBI_DN19207_c0_g1_i1_4	1,29E-36	133	XP_018816929.1	uncharacterized protein LOC108988207	Juglans regia	XP_018843198.1
ARUBRA_DN13376_c0_g1_i1_2	4,62E-120	343	AAL16968.1	AF367452_1 hexokinase, partial	Prunus persica	XP_009338735.1
ARHOMBI_DN16745_c0_g1_i1_1	6,77E-43	154	XP_018819170.1	eukaryotic translation initiation factor 4G-like isoform X2	Juglans regia	XP_018819162.1
ARUBRA_DN4722_c0_g1_i1_3	0	899	XP_018857649.1	NADH dehydrogenase ubiquinone flavoprotein 1, mitochondrial-like	Juglans regia	XP_018836688.1
ARUBRA_DN881_c0_g1_i1_1	2,00E-143	405	XP_018844705.1	proteasome subunit beta type-3-A	Juglans regia	GAU21784.1
ARHOMBI_DN16363_c0_g1_i1_2	1,30E-29	104	XP_012080548.1	mini zinc finger protein 3	Jatropha curcas	KDP31250.1
ARHOMBI_DN18734_c0_g1_i1_1	3,98E-155	437	ONH95000.1	hypothetical protein PRUPE_7G045500	Prunus persica	XP_007202429.1
ARUBRA_DN3334_c0_g1_i1_1	9,52E-74	230	OAY62541.1	hypothetical protein MANES_01G275200, partial	Manihot esculenta	OAY62541.1
ARHOMBI_DN421_c0_g1_i1_5	6,48E-147	427	OAY36457.1	hypothetical protein MANES_11G022700	Manihot esculenta	XP_020964169.1
ARUBRA_DN416_c0_g1_i1_2	6,32E-74	223	XP_018823025.1	thioredoxin H2-like	Juglans regia	XP_009335817.1
ARHOMBI_DN25721_c0_g1_i1_4	1,68E-42	141	XP_018838371.1	ADP-glucose phosphorylase-like	Juglans regia	XP_018846971.1
ARUBRA_DN11356_c0_g1_i1_6	1,46E-114	332	XP_018836820.1	transmembrane emp24 domain-containing protein p24delta9-like	Juglans regia	XP_018823192.1
ARUBRA_DN18553_c0_g1_i1_5	9,78E-71	220	KDP39401.1	hypothetical protein JCGZ_03683	Jatropha curcas	XP_012070587.1
ARHOMBI_DN3435_c0_g2_i1_3	1,06E-165	480	KDP44499.1	hypothetical protein JCGZ_16332	Jatropha curcas	KDP44499.1

ARHOMBI_DN13700_c0_g1_i1_6	1,09E-49	159	XP_018815442.1	mitochondrial import receptor subunit TOM20-like	Juglans regia	XP_018860144.1
ARHOMBI_DN10592_c0_g1_i1_1	1,49E-44	149	XP_018821649.1	gamma carbonic anhydrase 1, mitochondrial-like	Juglans regia	OAY50705.1
ARUBRA_DN9072_c0_g1_i1_5	3,50E-61	190	XP_012567690.1	serine hydroxymethyltransferase, mitochondrial-like	Cicer arietinum	ONI35495.1
ARUBRA_DN3824_c0_g1_i1_5	1,70E-36	131	XP_008342177.1	heterogeneous nuclear ribonucleoprotein 1-like	Malus domestica	XP_008342177.1
ARUBRA_DN4832_c0_g1_i1_2	1,13E-31	122	XP_018844468.1	serine carboxypeptidase-like 40	Juglans regia	XP_018817239.1
ARUBRA_DN9069_c0_g1_i1_4	1,95E-28	115	ONI13583.1	hypothetical protein PRUPE_4G231900	Prunus persica	ONI13583.1
ARHOMBI_DN8777_c0_g1_i1_4	4,28E-65	216	XP_018815316.1	coatomer subunit alpha-1	Juglans regia	XP_018815316.1
ARHOMBI_DN23553_c0_g1_i1_1	4,03E-38	136	XP_018849589.1	dolichyl-diphosphooligosaccharide--protein glycosyltransferase 48 kDa subunit-like isoform X1	Juglans regia	XP_018849591.1
ARHOMBI_DN3610_c0_g1_i1_3	6,94E-117	336	XP_018849141.1	phosphomannomutase-like	Juglans regia	AGH25530.1
ARHOMBI_DN5807_c0_g2_i1_3	4,73E-31	112	XP_018859166.1	60S acidic ribosomal protein P1-like	Juglans regia	XP_018842776.1
ARUBRA_DN4275_c0_g1_i1_5	0	548	XP_018821713.1	eukaryotic translation initiation factor 4B2-like	Juglans regia	XP_018821321.1
ARUBRA_DN24862_c0_g1_i1_4	3,89E-83	250	XP_008377063.1	ABC transporter E family member 2-like	Malus domestica	XP_008377064.1
ARUBRA_DN17478_c0_g1_i1_6	1,12E-168	469	XP_018820977.1	14-3-3-like protein GF14 kappa	Juglans regia	KDP41459.1
ARUBRA_DN2215_c0_g1_i1_4	1,83E-35	122	XP_015962951.1	uncharacterized protein LOC107486893	Arachis duranensis	KDP28251.1
ARUBRA_DN7908_c0_g1_i1_1	0	678	XP_018835559.1	ATP phosphoribosyltransferase 2, chloroplastic isoform X1	Juglans regia	OAY44990.1
ARHOMBI_DN4809_c0_g2_i1_2	3,95E-137	394	XP_018807963.1	2-alkenal reductase (NADP(+)-dependent)-like	Juglans regia	XP_018855810.1
ARUBRA_DN7769_c0_g1_i1_1	1,47E-169	478	XP_018820882.1	glyoxylate/succinic semialdehyde reductase 1 isoform X1	Juglans regia	XP_018820891.1
ARUBRA_DN4322_c0_g1_i1_1	1,00E-58	199	XP_018827682.1	uncharacterized protein LOC108996311	Juglans regia	XP_016175320.1
ARUBRA_DN25612_c0_g1_i1_4	8,33E-84	248	XP_018842451.1	lactoylglutathione lyase-like	Juglans regia	XP_008224306.1
ARHOMBI_DN11791_c0_g1_i1_2	1,71E-123	364	OAY29759.1	hypothetical protein MANES_15G170100	Manihot esculenta	XP_018842623.1
ARHOMBI_DN5868_c0_g1_i1_6	0	567	CAA66064.1	thaizole biosynthetic enzmye	Alnus glutinosa	Q38709.1
ARUBRA_DN2981_c0_g1_i1_3	0	744	XP_018859227.1	uncharacterized protein At1g04910	Juglans regia	XP_008353648.1
ARHOMBI_DN24401_c0_g1_i1_3	1,22E-42	145	XP_018828339.1	gamma aminobutyrate transaminase 3, chloroplastic-like, partial	Juglans regia	KDP30431.1
ARUBRA_DN23505_c0_g1_i1_1	6,03E-49	161	XP_018854405.1	ribosome maturation protein SBDS-like	Juglans regia	XP_018807006.1
ARUBRA_DN17618_c0_g1_i1_6	1,14E-09	58,5	XP_018806025.1	adenylyl-sulfate kinase 3-like isoform X2	Juglans regia	XP_018860443.1
ARUBRA_DN1478_c0_g1_i1_1	0	581	XP_018810134.1	dihydropyrimidine dehydrogenase (NADP(+)), chloroplastic-like	Juglans regia	XP_018823611.1
ARHOMBI_DN2506_c0_g1_i1_6	8,84E-136	386	ONH98930.1	hypothetical protein PRUPE_6G000600	Prunus persica	ONH98930.1
ARHOMBI_DN8898_c0_g1_i1_5	2,39E-82	251	XP_018818624.1	3-hydroxyisobutyryl-CoA hydrolase 1-like	Juglans regia	OAY38989.1

ARUBRA_DN3963_c0_g2_i1_4	1,34E-150	440	XP_008218420.1	eukaryotic translation initiation factor 3 subunit B-like	Prunus mume	ONI05147.1
ARUBRA_DN210_c0_g1_i1_5	5,30E-69	210	XP_018814411.1	uncharacterized protein LOC108986289	Juglans regia	KDP21869.1
ARUBRA_DN12757_c0_g1_i1_6	3,09E-58	197	XP_009362204.1	coatomer subunit alpha-1-like	Pyrus x bretschneideri	XP_018504237.1
ARHOMBI_DN1108_c0_g2_i1_1	1,00E-51	171	XP_008348820.1	copper-transporting ATPase PAA1, chloroplastic-like isoform X2	Malus domestica	XP_017181418.1
ARHOMBI_DN11591_c0_g1_i1_2	3,36E-80	243	XP_016180263.1	cycloartenol-C-24-methyltransferase	Arachis ipaensis	KYP60330.1
ARHOMBI_DN10607_c0_g1_i1_1	7,88E-85	276	XP_018828368.1	tripeptidyl-peptidase 2-like	Juglans regia	XP_018830702.1
ARUBRA_DN6875_c0_g1_i1_6	4,07E-101	303	XP_018812595.1	ATP sulfurylase 2-like	Juglans regia	XP_018847012.1
ARUBRA_DN25440_c0_g1_i1_2	1,15E-75	231	XP_018844548.1	chaperone protein dnaJ 10-like, partial	Juglans regia	ONH91071.1
ARUBRA_DN7688_c0_g1_i1_2	5,61E-77	233	XP_018834275.1	uncharacterized protein At4g28440	Juglans regia	XP_018805198.1
ARHOMBI_DN19744_c0_g1_i1_2	1,23E-154	463	XP_018815758.1	phosphoglucan, water dikinase, chloroplastic isoform X2	Juglans regia	XP_018815757.1
ARUBRA_DN24337_c0_g1_i1_6	3,09E-88	259	OIV96039.1	hypothetical protein TanjilG_27143	Lupinus angustifolius	KOM53238.1
ARUBRA_DN20434_c0_g1_i1_2	4,88E-140	406	XP_018810471.1	COP9 signalosome complex subunit 1-like	Juglans regia	XP_018810472.1
ARHOMBI_DN5476_c0_g1_i1_6	0	757	XP_018834279.1	26S proteasome non-ATPase regulatory subunit 2 homolog A-like	Juglans regia	XP_018843471.1
ARHOMBI_DN9888_c0_g1_i1_2	9,65E-101	306	XP_018843270.1	NADP-dependent malic enzyme	Juglans regia	KRH74264.1
ARHOMBI_DN2706_c0_g1_i1_5	1,13E-137	406	XP_018826381.1	probable Xaa-Pro aminopeptidase P	Juglans regia	OAY22143.1
ARUBRA_DN5778_c0_g1_i1_4	0	702	XP_018824898.1	glycerophosphodiester phosphodiesterase GDPD6	Juglans regia	ONI08875.1
ARUBRA_DN3967_c0_g1_i1_4	6,31E-49	164	ONI23764.1	hypothetical protein PRUPE_2G206800	Prunus persica	XP_007218796.1
ARUBRA_DN26097_c0_g1_i1_3	5,07E-44	150	XP_018814434.1	glucan endo-1,3-beta-glucosidase-like	Juglans regia	XP_018806507.1
ARHOMBI_DN2700_c0_g2_i1_5	2,37E-111	325	XP_018847499.1	ATP-dependent Clp protease ATP-binding subunit CLPT2, chloroplastic	Juglans regia	XP_008238671.1
ARHOMBI_DN8688_c0_g1_i1_2	1,65E-36	135	XP_018842400.1	eukaryotic translation initiation factor 3 subunit C isoform X1	Juglans regia	XP_018842401.1
ARHOMBI_DN15526_c0_g1_i1_1	1,94E-150	431	XP_018808845.1	GEM-like protein 1	Juglans regia	KOM41786.1
ARHOMBI_DN12805_c0_g1_i1_1	1,69E-35	129	XP_018858232.1	probable L-ascorbate peroxidase 6, chloroplastic	Juglans regia	XP_018855479.1
ARHOMBI_DN10876_c0_g1_i1_3	1,14E-45	158	XP_018829351.1	uncharacterized protein LOC108997478 isoform X2	Juglans regia	XP_018829342.1
ARUBRA_DN5971_c0_g1_i1_2	3,17E-77	236	XP_018848154.1	thioredoxin Y1, chloroplastic-like	Juglans regia	ONH90075.1
ARHOMBI_DN18415_c0_g1_i1_4	5,59E-38	132	XP_018828827.1	eukaryotic translation initiation factor 3 subunit I-like	Juglans regia	XP_018818014.1
ARUBRA_DN4814_c0_g1_i2_6	8,27E-114	333	XP_018828872.1	protein P21-like	Juglans regia	OIV93525.1
ARUBRA_DN21824_c0_g1_i1_6	2,64E-83	247	XP_018845962.1	uncharacterized protein LOC109009802	Juglans regia	XP_018845960.1

ARUBRA_DN10839_c0_g1_i1_5	1,73E-88	277	XP_018846638.1	uncharacterized protein LOC109010309	Juglans regia	XP_008393841.1
ARUBRA_DN4729_c0_g1_i1_2	2,34E-69	218	XP_018844572.1	uncharacterized protein LOC109008795	Juglans regia	AFK34731.1
ARUBRA_DN20854_c0_g1_i1_1	3,51E-118	371	XP_018805213.1	alpha-glucan water dikinase, chloroplastic isoform X1	Juglans regia	XP_018805214.1
ARUBRA_DN8756_c0_g1_i1_5	7,34E-40	141	XP_018827094.1	dihydroxy-acid dehydratase, chloroplastic-like	Juglans regia	XP_009376350.1
ARUBRA_DN18126_c0_g1_i1_2	5,38E-32	125	KEH41799.1	calmodulin-domain kinase CDPK protein	Medicago truncatula	XP_013467762.1
ARUBRA_DN7462_c0_g1_i1_6	7,54E-28	108	XP_018810692.1	geranylgeranyl transferase type-1 subunit beta	Juglans regia	ONI24309.1
ARUBRA_DN18563_c0_g1_i1_3	4,42E-90	271	XP_016202338.1	long chain acyl-CoA synthetase 6, peroxisomal	Arachis ipaensis	XP_018840476.1
ARUBRA_DN10939_c0_g1_i1_3	2,60E-78	236	BAD91191.1	sucrose synthase, partial	Pyrus communis	XP_008246136.2
ARHOMBI_DN21563_c0_g1_i1_5	7,22E-133	397	ONI07170.1	hypothetical protein PRUPE_5G103900	Prunus persica	XP_008392596.1
ARHOMBI_DN6102_c0_g2_i1_1	2,38E-129	371	XP_018828033.1	chalcone--flavonone isomerase-like isoform X2	Juglans regia	XP_018828032.1
ARUBRA_DN9246_c0_g1_i1_4	1,05E-122	348	XP_018810806.1	adenylyl-sulfate kinase 3	Juglans regia	XP_018810807.1
ARHOMBI_DN26256_c0_g1_i1_3	1,58E-23	95,1	XP_018847248.1	copper chaperone for superoxide dismutase, chloroplastic/cytosolic isoform X1	Juglans regia	XP_018847253.1
ARUBRA_DN22761_c0_g1_i1_6	1,54E-76	239	XP_018850112.1	uncharacterized protein LOC109012766	Juglans regia	KDP25741.1
ARHOMBI_DN20260_c0_g1_i1_3	7,28E-101	308	XP_018837506.1	glucosidase 2 subunit beta	Juglans regia	XP_009339210.1
ARHOMBI_DN19503_c0_g1_i1_3	7,77E-64	208	XP_018846976.1	LOW QUALITY PROTEIN: apyrase 1-like	Juglans regia	KHN00658.1
ARHOMBI_DN10131_c0_g1_i1_2	2,62E-90	266	XP_018808584.1	acetyl-coenzyme A carboxylase carboxyl transferase subunit alpha, chloroplastic-like	Juglans regia	XP_018833363.1
ARHOMBI_DN19928_c0_g1_i1_4	7,03E-71	228	XP_018850062.1	acyl-CoA-binding domain-containing protein 4	Juglans regia	XP_018850062.1
ARUBRA_DN1385_c0_g1_i1_2	0	944	XP_018819005.1	glutamate--glyoxylate aminotransferase 2	Juglans regia	XP_018813477.1
ARHOMBI_DN2055_c1_g1_i1_1	1,31E-58	181	AFP43694.1	actin 2, partial	Eriobotrya japonica	XP_020541461.1
ARUBRA_DN22675_c0_g1_i1_5	2,40E-25	101	ONI03924.1	hypothetical protein PRUPE_6G291700	Prunus persica	XP_007205848.1
ARHOMBI_DN1643_c0_g1_i1_5	3,00E-161	458	XP_019419657.1	26S protease regulatory subunit 6B homolog	Lupinus angustifolius	KHN18648.1
ARHOMBI_DN1170_c0_g1_i1_5	3,00E-102	301	XP_018848462.1	B-cell receptor-associated protein 31	Juglans regia	AFK41440.1
ARHOMBI_DN22076_c0_g1_i1_3	3,39E-35	132	XP_018854869.1	eukaryotic translation initiation factor 4G-like isoform X1	Juglans regia	XP_018854875.1
ARUBRA_DN16830_c0_g1_i1_1	1,68E-171	481	XP_018809559.1	ER membrane protein complex subunit 3-like	Juglans regia	XP_018842205.1
ARUBRA_DN17659_c0_g1_i1_1	1,55E-88	271	KDP39354.1	hypothetical protein JCGZ_01111	Jatropha curcas	XP_012071121.1
ARHOMBI_DN21263_c0_g1_i1_6	8,08E-106	313	OIW07052.1	hypothetical protein TanjilG_02686	Lupinus angustifolius	OAY48825.1
ARHOMBI_DN22368_c0_g1_i1_3	1,90E-46	165	XP_018830674.1	uncharacterized protein LOC108998567 isoform X2	Juglans regia	XP_018830673.1

ARHOMBI_DN20690_c0_g1_i1_2	2,69E-120	358	XP_018817683.1	probable methyltransferase PMT2	Juglans regia	XP_018845208.1
ARUBRA_DN2528_c0_g1_i1_6	1,72E-104	315	XP_018836136.1	coronatine-insensitive protein 1-like	Juglans regia	XP_018821796.1
ARHOMBI_DN1508_c0_g1_i1_5	6,72E-117	342	XP_018814791.1	26S proteasome non-ATPase regulatory subunit 6	Juglans regia	OIW21859.1
ARHOMBI_DN4881_c0_g1_i1_3	0	544	XP_018835583.1	polyadenylate-binding protein RBP47-like isoform X1	Juglans regia	XP_018835583.1
ARHOMBI_DN24692_c0_g1_i1_6	3,74E-98	296	XP_018810822.1	T-complex protein 1 subunit theta	Juglans regia	GAU32577.1
ARUBRA_DN51_c0_g1_i1_2	2,74E-96	285	KDP40925.1	hypothetical protein JCGZ_24924	Jatropha curcas	XP_012069158.1
ARUBRA_DN24099_c0_g1_i1_5	2,64E-106	306	XP_018848086.1	uncharacterized protein LOC109011377 isoform X1	Juglans regia	ABL85241.1
ARUBRA_DN7587_c0_g1_i1_6	8,31E-135	382	XP_018834676.1	eukaryotic translation initiation factor 3 subunit M-like	Juglans regia	XP_018816946.1
ARUBRA_DN5361_c0_g1_i1_2	4,60E-69	209	XP_018826018.1	NADH dehydrogenase ubiquinone 1 alpha subcomplex subunit 8-B-like	Juglans regia	XP_018840578.1
ARHOMBI_DN2590_c0_g1_i1_1	1,22E-107	312	XP_008237447.1	ras-related protein Rab7	Prunus mume	ONH90275.1
ARHOMBI_DN12163_c0_g1_i1_3	2,37E-76	244	OAY41017.1	hypothetical protein MANES_09G067300	Manihot esculenta	OAY41017.1
ARHOMBI_DN15490_c0_g1_i1_6	8,05E-136	410	XP_018826787.1	probable sucrose-phosphate synthase 1	Juglans regia	KDP30238.1
ARUBRA_DN24778_c0_g1_i1_1	2,53E-68	217	XP_016647327.1	beta-glucosidase 40-like	Prunus mume	ONI30961.1
ARUBRA_DN20929_c0_g1_i1_2	9,09E-60	191	XP_015959760.1	nifU-like protein 4, mitochondrial	Arachis duranensis	XP_016176058.1
ARUBRA_DN16965_c0_g1_i1_3	6,56E-54	170	XP_018822169.1	gamma-glutamylcyclotransferase 2-3-like	Juglans regia	KDP32786.1
ARUBRA_DN20307_c0_g1_i1_3	2,85E-36	133	XP_018827628.1	probable methyltransferase PMT26	Juglans regia	XP_018827629.1
ARHOMBI_DN24428_c0_g1_i1_4	5,73E-49	170	XP_018829342.1	uncharacterized protein LOC108997478 isoform X1	Juglans regia	XP_009339143.1
ARUBRA_DN2923_c0_g2_i1_5	0	539	XP_018846483.1	proteasome subunit beta type-7-B	Juglans regia	KDP46386.1
ARHOMBI_DN581_c0_g1_i1_2	8,20E-118	342	XP_018825107.1	vesicle-associated protein 2-1-like isoform X3	Juglans regia	XP_018825108.1
ARHOMBI_DN6817_c0_g1_i1_1	0	528	KDP42878.1	hypothetical protein JCGZ_23820	Jatropha curcas	XP_012066253.1
ARUBRA_DN10993_c0_g1_i1_2	6,44E-77	244	XP_018817103.1	long chain acyl-CoA synthetase 9, chloroplastic	Juglans regia	XP_018812541.1
ARUBRA_DN12715_c0_g1_i1_2	5,22E-67	223	OAY48901.1	hypothetical protein MANES_05G014200	Manihot esculenta	ONI14812.1
ARUBRA_DN9682_c0_g1_i1_4	7,39E-93	274	XP_018816771.1	pyridoxal kinase-like isoform X2	Juglans regia	XP_018816770.1
ARHOMBI_DN18725_c0_g1_i1_3	1,03E-78	256	KHN38581.1	Clathrin heavy chain 2	Glycine soja	KRH73205.1
ARHOMBI_DN20294_c0_g1_i1_3	6,99E-57	186	XP_018859548.1	protein AUXIN RESPONSE 4	Juglans regia	XP_018859549.1
ARHOMBI_DN4086_c0_g1_i1_4	2,07E-117	341	XP_018813434.1	ER membrane protein complex subunit 8/9 homolog	Juglans regia	XP_018825614.1

ARUBRA_DN19093_c0_g1_i1_3	1,57E-52	174	XP_018851786.1	nifU-like protein 4, mitochondrial	Juglans regia	KDP30075.1
ARHOMBI_DN13465_c0_g2_i1_6	3,71E-79	242	XP_015956091.1	probable cinnamyl alcohol dehydrogenase 1	Arachis duranensis	XP_016189854.1
ARUBRA_DN20855_c0_g1_i1_2	4,19E-111	336	OAY48760.1	hypothetical protein MANES_05G003600	Manihot esculenta	XP_018842470.1
ARUBRA_DN2934_c0_g2_i2_4	2,69E-139	399	XP_008220037.1	coiled-coil domain-containing protein 25 isoform X2	Prunus mume	ONI33902.1
ARUBRA_DN17957_c0_g1_i1_3	3,16E-35	121	XP_018847027.1	7-methylguanosine phosphate-specific 5'-nucleotidase A like, partial	Juglans regia	XP_018857864.1
ARUBRA_DN189_c0_g2_i1_5	0	696	XP_018842503.1	branched-chain-amino-acid aminotransferase 3, chloroplastic-like	Juglans regia	XP_009342188.1
ARUBRA_DN12373_c0_g1_i1_4	9,48E-157	450	KDP42743.1	hypothetical protein JCGZ_23683	Jatropha curcas	XP_012066493.1
ARHOMBI_DN26479_c0_g1_i1_3	1,54E-43	144	XP_018828106.1	uncharacterized protein LOC108996580 isoform X2	Juglans regia	XP_018828105.1
ARUBRA_DN1156_c0_g1_i1_5	5,02E-100	297	XP_018842811.1	vacuolar protein sorting-associated protein 26B-like	Juglans regia	XP_018842812.1
ARHOMBI_DN715_c0_g1_i1_6	4,87E-142	406	XP_018833655.1	phospholipid hydroperoxide glutathione peroxidase 1, chloroplastic-like	Juglans regia	XP_018839583.1
ARUBRA_DN18388_c0_g1_i1_5	1,32E-60	200	XP_018815884.1	acid beta-fructofuranosidase-like	Juglans regia	OAY48150.1
ARUBRA_DN24939_c0_g1_i1_6	5,71E-51	171	XP_018813877.1	plant intracellular Ras-group-related LRR protein 9-like	Juglans regia	XP_018808183.1
ARUBRA_DN1579_c0_g1_i1_3	1,44E-110	320	XP_018829416.1	soluble inorganic pyrophosphatase-like isoform X1	Juglans regia	XP_018829417.1
ARUBRA_DN3088_c1_g1_i1_2	0	538	XP_018820447.1	T-complex protein 1 subunit epsilon	Juglans regia	KDP26716.1
ARUBRA_DN18995_c0_g1_i1_4	2,35E-67	223	XP_018833940.1	probable manganese-transporting ATPase PDR2	Juglans regia	XP_018833946.1
ARUBRA_DN6428_c0_g1_i1_3	1,86E-113	350	XP_018837083.1	probable sucrose-phosphate synthase 2	Juglans regia	XP_008222839.1
ARUBRA_DN24802_c0_g1_i1_6	3,64E-36	132	XP_007162188.1	hypothetical protein PHAVU_001G131700g	Phaseolus vulgaris	XP_007162189.1
ARHOMBI_DN6811_c0_g1_i1_3	3,98E-87	275	XP_018809531.1	phosphoenolpyruvate carboxylase 4-like isoform X2	Juglans regia	XP_008389332.1
ARHOMBI_DN23413_c0_g1_i1_2	1,06E-67	205	XP_018860744.1	phospholipase A-2-activating protein-like isoform X2	Juglans regia	KHN25352.1
ARUBRA_DN26636_c0_g1_i1_3	6,43E-53	172	XP_017184434.1	ubiquitin carboxyl-terminal hydrolase 13-like, partial	Malus domestica	XP_016165934.1
ARUBRA_DN24535_c0_g1_i1_1	1,32E-73	225	XP_018824435.1	mitochondrial import receptor subunit TOM40-1-like	Juglans regia	XP_018815797.1
ARUBRA_DN5752_c0_g1_i1_3	3,29E-61	191	XP_008388576.1	mitochondrial Rho GTPase 1-like	Malus domestica	XP_008246476.1
ARUBRA_DN12277_c0_g1_i1_4	7,48E-21	85,9	XP_018819823.1	MFP1 attachment factor 1-like	Juglans regia	XP_018824955.1
ARUBRA_DN12763_c0_g1_i1_6	1,08E-24	99,4	XP_018807064.1	cyclase-associated protein 1-like	Juglans regia	XP_018847838.1
ARUBRA_DN23296_c0_g1_i1_1	1,92E-90	278	XP_018809732.1	SEC1 family transport protein SLY1-like	Juglans regia	OAY57009.1
ARHOMBI_DN6174_c0_g1_i1_5	0	867	XP_020226848.1	glucose-1-phosphate adenylyltransferase large subunit 3, chloroplastic/amyloplastic	Cajanus cajan	ACU20108.1

ARHOMBI_DN3360_c0_g1_i1_6	3,60E-62	192	XP_018829244.1	NADH dehydrogenase ubiquinone 1 alpha subcomplex subunit 2-like	Juglans regia	XP_018841602.1
ARUBRA_DN4576_c0_g3_i1_3						
ARUBRA_DN27180_c0_g1_i1_6	6,43E-35	123	XP_017182136.1	uncharacterized protein LOC103414782	Malus domestica	XP_018843340.1
ARUBRA_DN3154_c0_g1_i1_6	2,88E-59	194	XP_018850710.1	early nodulin-like protein 2	Juglans regia	XP_018807542.1
ARUBRA_DN6360_c0_g1_i1_2	0	580	XP_018857622.1	polyadenylate-binding protein RBP45-like	Juglans regia	XP_018808205.1
ARUBRA_DN24250_c0_g1_i1_6	6,02E-35	128	XP_018847198.1	protein CASP	Juglans regia	KDP20098.1
ARUBRA_DN9113_c0_g1_i1_5	7,75E-51	171	XP_018845393.1	DEAD-box ATP-dependent RNA helicase 8-like	Juglans regia	XP_008347150.1
ARUBRA_DN18999_c0_g1_i1_5	5,21E-99	293	XP_018833734.1	elongation factor 1-beta 2	Juglans regia	XP_016187218.1
ARUBRA_DN23874_c0_g1_i1_1	6,04E-101	298	XP_018810997.1	electron transfer flavoprotein subunit alpha, mitochondrial	Juglans regia	KDP39073.1
ARHOMBI_DN8339_c0_g1_i1_2	1,33E-109	315	XP_018852886.1	ABC transporter F family member 3-like, partial	Juglans regia	XP_018835197.1
ARHOMBI_DN1833_c0_g1_i1_4	7,17E-72	217	KDP36139.1	hypothetical protein JCGZ_08783	Jatropha curcas	XP_012074351.1
ARHOMBI_DN187_c0_g2_i1_1	1,26E-168	508	XP_018810975.1	ABC transporter B family member 11-like	Juglans regia	XP_018810975.1
ARHOMBI_DN18091_c0_g1_i1_1	3,67E-33	125	XP_018849698.1	glutamine--tRNA ligase-like	Juglans regia	XP_018849699.1
ARHOMBI_DN11853_c0_g1_i1_1	3,37E-85	277	XP_018815316.1	coatomer subunit alpha-1	Juglans regia	XP_018840319.1
ARUBRA_DN898_c0_g1_i1_1	3,22E-163	461	XP_008236384.1	methylthioribose kinase	Prunus mume	AGF95119.1
ARHOMBI_DN5055_c0_g1_i1_3	9,84E-57	191	XP_018823263.1	probable mediator of RNA polymerase II transcription subunit 37c	Juglans regia	KOM26183.1
ARUBRA_DN21162_c0_g1_i1_4	5,22E-161	462	XP_018843339.1	ubiquitin carboxyl-terminal hydrolase 6-like isoform X1	Juglans regia	XP_018843340.1
ARUBRA_DN19451_c0_g1_i1_2	1,57E-40	145	XP_018830674.1	uncharacterized protein LOC108998567 isoform X2	Juglans regia	XP_018830673.1
ARHOMBI_DN17114_c0_g1_i1_5	2,70E-126	392	XP_018857395.1	protein transport protein Sec24-like At3g07100	Juglans regia	XP_018857396.1
ARHOMBI_DN4946_c0_g1_i2_4	7,28E-134	384	XP_018828615.1	gamma-interferon-inducible lysosomal thiol reductase-like	Juglans regia	XP_008234981.2
ARUBRA_DN9563_c0_g1_i1_2	3,34E-58	186	XP_018836996.1	dnaJ homolog subfamily B member 1-like isoform X2	Juglans regia	XP_018836995.1
ARUBRA_DN3083_c0_g1_i1_4	4,01E-145	414	XP_018836119.1	reticulon-like protein B5	Juglans regia	XP_018845099.1
ARUBRA_DN10864_c0_g1_i1_2	2,20E-55	176	XP_018854469.1	OTU domain-containing protein 6B-like, partial	Juglans regia	XP_018843798.1
ARHOMBI_DN8832_c0_g1_i1_6	1,05E-174	499	XP_018852605.1	leukotriene A-4 hydrolase homolog	Juglans regia	KDP46145.1
ARHOMBI_DN16126_c0_g1_i1_1	4,59E-61	189	KEH17133.1	cell division control-like protein	Medicago truncatula	XP_013443108.1
ARUBRA_DN11418_c0_g1_i1_5	4,61E-154	441	XP_018838327.1	T-complex protein 1 subunit beta-like	Juglans regia	XP_018838327.1
ARUBRA_DN711_c0_g1_i1_2	4,11E-146	414	KRH40130.1	hypothetical protein GLYMA_09G240300	Glycine max	KHN11589.1
ARUBRA_DN23248_c0_g1_i1_5	1,28E-59	194	XP_018808130.1	calcium-dependent protein kinase 29	Juglans regia	XP_018808131.1

ARHOMBI_DN11424_c0_g1_i1_1	4,43E-35	122	XP_018839525.1	chorismate mutase 2-like	Juglans regia	XP_018833669.1
ARUBRA_DN13078_c0_g1_i1_4	1,12E-56	187	XP_018857004.1	4-hydroxyphenylpyruvate dioxygenase	Juglans regia	KDP45435.1
ARUBRA_DN22748_c0_g1_i1_3	3,22E-37	134	XP_018811308.1	probable aspartyl aminopeptidase	Juglans regia	XP_018814786.1
ARUBRA_DN19446_c0_g1_i1_1	2,65E-165	469	XP_018809613.1	alanine--glyoxylate aminotransferase 2 homolog 1, mitochondrial	Juglans regia	XP_008218566.1
ARHOMBI_DN25338_c0_g1_i1_6	6,08E-46	160	OAY38388.1	hypothetical protein MANES_10G010500	Manihot esculenta	KDP44739.1
ARUBRA_DN1375_c0_g1_i1_4	0	776	XP_018846461.1	apoptotic chromatin condensation inducer in the nucleus-like isoform X2	Juglans regia	XP_018850842.1
ARHOMBI_DN5366_c0_g1_i2_2	5,22E-152	431	XP_018830330.1	peroxisomal membrane protein 11C	Juglans regia	XP_020219477.1
ARUBRA_DN26151_c0_g1_i1_1	9,38E-25	100	XP_008387982.1	uncharacterized TPR repeat-containing protein At1g05150-like	Malus domestica	XP_008387984.1
ARHOMBI_DN16439_c0_g1_i1_3	0	570	XP_018842661.1	phosphoinositide phosphatase SAC6-like	Juglans regia	XP_018842662.1
ARHOMBI_DN17772_c0_g1_i1_2	3,39E-41	147	XP_018840323.1	V-type proton ATPase subunit a3-like	Juglans regia	ONH91014.1
ARHOMBI_DN3967_c0_g1_i1_1	5,42E-174	486	XP_018842902.1	haloacid dehalogenase-like hydrolase domain-containing protein At4g39970 isoform X1	Juglans regia	XP_018860336.1
ARUBRA_DN18178_c0_g1_i1_2	1,86E-29	108	AFK34954.1	unknown	Lotus japonicus	KRH51667.1
ARUBRA_DN4925_c0_g1_i1_4	0	687	XP_018823509.1	leucine aminopeptidase 1-like	Juglans regia	XP_018810862.1
ARUBRA_DN14063_c0_g1_i1_3	9,40E-61	204	XP_018815316.1	coatomer subunit alpha-1	Juglans regia	XP_018840319.1
ARHOMBI_DN2499_c0_g1_i1_5	1,65E-131	376	XP_018809664.1	uncharacterized protein LOC108982679	Juglans regia	ONI25352.1
ARUBRA_DN2486_c0_g1_i1_3	1,22E-62	194	ONI00303.1	hypothetical protein PRUPE_6G081100	Prunus persica	XP_018823316.1
ARUBRA_DN9169_c0_g1_i1_1	2,72E-51	171	XP_018808643.1	serine/threonine-protein phosphatase 5 isoform X2	Juglans regia	XP_018808625.1
ARHOMBI_DN2036_c0_g2_i1_1	1,85E-71	222	XP_018816108.1	uncharacterized protein At3g03773 isoform X2	Juglans regia	KDP39664.1
ARUBRA_DN20749_c0_g1_i1_4						
ARHOMBI_DN13970_c0_g1_i1_4	1,26E-24	99,4	OAY43070.1	hypothetical protein MANES_08G039600	Manihot esculenta	KDP35933.1
ARHOMBI_DN16110_c0_g1_i1_4	1,36E-57	184	XP_007148531.1	hypothetical protein PHAVU_006G216400g	Phaseolus vulgaris	ESW20525.1
ARUBRA_DN16649_c0_g1_i1_5	1,49E-112	343	XP_018822704.1	alpha-L-arabinofuranosidase 1	Juglans regia	XP_018822706.1
ARHOMBI_DN26305_c0_g1_i1_3	1,63E-26	90,5	ONI06071.1	hypothetical protein PRUPE_5G038300	Prunus persica	ONI06071.1
ARUBRA_DN7710_c0_g1_i1_3	0	536	XP_018827302.1	succinate--CoA ligase ADP-forming subunit beta, mitochondrial	Juglans regia	XP_018847166.1
ARUBRA_DN9775_c0_g1_i1_2	7,06E-50	164	XP_018816315.1	ABC transporter I family member 20-like isoform X1	Juglans regia	KHN02819.1

ARUBRA_DN9988_c0_g1_i1_3	1,87E-43	150	XP_018846051.1	diphosphomevalonate decarboxylase MVD2-like	Juglans regia	XP_018813340.1
ARHOMBI_DN18064_c0_g1_i1_4	7,78E-38	137	XP_019433597.1	bifunctional aspartokinase/homoserine dehydrogenase, chloroplastic-like isoform X1	Lupinus angustifolius	OIV89670.1
ARHOMBI_DN4801_c0_g1_i1_1	6,32E-172	497	XP_018821713.1	eukaryotic translation initiation factor 4B2-like	Juglans regia	XP_018821321.1
ARUBRA_DN5397_c0_g1_i1_4	2,92E-28	109	XP_018842090.1	uncharacterized protein LOC109007046	Juglans regia	XP_018851050.1
ARHOMBI_DN3803_c0_g2_i1_6	4,61E-16	70,5	XP_008372389.1	mitochondrial import receptor subunit TOM9-2	Malus domestica	XP_009370408.1
ARUBRA_DN4646_c0_g1_i1_4	1,44E-85	252	XP_018834168.1	uncharacterized protein LOC109001373	Juglans regia	XP_019441142.1
ARUBRA_DN16654_c0_g1_i1_4	6,04E-127	372	XP_019456385.1	mannosyl-oligosaccharide 1,2-alpha-mannosidase MNS1-like isoform X2	Lupinus angustifolius	OIW04981.1
ARUBRA_DN20972_c0_g1_i1_2	3,14E-119	358	XP_018826576.1	probable methyltransferase PMT2	Juglans regia	ONI08658.1
ARHOMBI_DN23602_c0_g1_i1_6	2,39E-81	255	XP_018839054.1	probable rhamnogalacturonate lyase B	Juglans regia	XP_018842495.1
ARUBRA_DN20900_c0_g1_i1_2	4,53E-115	338	OAY41777.1	hypothetical protein MANES_09G128600	Manihot esculenta	KDP39537.1
ARUBRA_DN17183_c0_g1_i1_5	1,02E-144	417	XP_018845323.1	isovaleryl-CoA dehydrogenase, mitochondrial	Juglans regia	XP_008225328.1
ARHOMBI_DN3229_c0_g1_i1_4	9,13E-58	184	XP_018824069.1	thioredoxin domain-containing protein PLP3B-like	Juglans regia	XP_018824070.1
ARUBRA_DN12858_c0_g1_i1_4	5,15E-70	218	XP_018818486.1	erlin-2-B	Juglans regia	XP_018818487.1
ARUBRA_DN20_c0_g1_i1_4	2,50E-77	231	OIV94287.1	hypothetical protein TanjilG_00036	Lupinus angustifolius	XP_004503473.1
ARUBRA_DN2891_c0_g1_i1_5	6,05E-46	161	KRH60476.1	hypothetical protein GLYMA_05G242700	Glycine max	XP_003525207.1
ARHOMBI_DN4641_c0_g1_i1_6	2,37E-131	378	XP_018815526.1	transmembrane emp24 domain-containing protein p24beta2-like isoform X1	Juglans regia	XP_018815527.1
ARUBRA_DN5439_c0_g1_i1_5	1,67E-151	427	XP_018840568.1	probable prolyl 4-hydroxylase 4	Juglans regia	OAY27838.1
ARUBRA_DN2788_c0_g1_i1_6	3,90E-34	132	XP_018835518.1	UDP-glucose:glycoprotein glucosyltransferase	Juglans regia	XP_016179809.2
ARHOMBI_DN24746_c0_g1_i1_1	5,61E-64	201	XP_018828105.1	uncharacterized protein LOC108996580 isoform X1	Juglans regia	ONI09614.1
ARUBRA_DN12422_c0_g1_i1_2	2,14E-47	154	GAU28872.1	hypothetical protein TSUD_293240	Trifolium subterraneum	XP_016649976.1
ARUBRA_DN19709_c0_g1_i1_5	1,83E-176	500	XP_018847838.1	cyclase-associated protein 1-like	Juglans regia	XP_018807064.1
ARUBRA_DN4950_c1_g1_i1_4	3,20E-166	473	XP_018839618.1	glucan endo-1,3-beta-glucosidase, basic isoform-like	Juglans regia	XP_008240769.1
ARHOMBI_DN8627_c0_g1_i1_4	4,02E-56	186	XP_018827094.1	dihydroxy-acid dehydratase, chloroplastic-like	Juglans regia	KYP72842.1
ARHOMBI_DN8139_c0_g1_i1_2	8,21E-105	327	XP_018835573.1	presequence protease 1, chloroplastic/mitochondrial-like	Juglans regia	KDP42318.1
ARUBRA_DN9097_c0_g1_i1_3	6,48E-107	313	XP_018841597.1	uncharacterized protein LOC109006689	Juglans regia	XP_018829186.1
ARUBRA_DN23250_c0_g1_i1_1	3,77E-37	137	XP_018839600.1	uncharacterized protein DDB_G0286299-like isoform X2	Juglans regia	XP_018839599.1

ARHOMBI_DN13828_c0_g1_i1_2	9,62E-31	117	XP_018842611.1	cytosolic enolase 3	Juglans regia	KDP46567.1
ARHOMBI_DN16373_c0_g1_i1_2	2,26E-156	442	XP_018810174.1	uncharacterized protein LOC108983094	Juglans regia	XP_009346159.1
ARUBRA_DN12629_c0_g1_i1_4	4,05E-46	157	XP_008235829.1	aminoacylase-1 isoform X2	Prunus mume	ONH92575.1
ARHOMBI_DN6215_c0_g1_i2_2	3,03E-98	291	XP_018845871.1	succinate dehydrogenase assembly factor 2, mitochondrial isoform X1	Juglans regia	KDP22524.1
ARUBRA_DN4706_c0_g1_i1_4	2,84E-134	388	XP_018857385.1	probable ribosomal protein S11, mitochondrial	Juglans regia	XP_018857386.1
ARUBRA_DN6348_c0_g1_i1_2	2,64E-127	370	XP_018859875.1	glycine-rich RNA-binding protein 3, mitochondrial	Juglans regia	XP_016649563.1
ARHOMBI_DN4431_c0_g3_i1_1	5,38E-138	390	AGL52581.1	Rab6	Hevea brasiliensis	OAY62531.1
ARHOMBI_DN2426_c0_g1_i1_5	6,59E-74	221	XP_018836608.1	macrophage migration inhibitory factor homolog	Juglans regia	XP_020227962.1
ARUBRA_DN2608_c0_g1_i1_4	1,29E-116	350	XP_018851337.1	acetolactate synthase small subunit 2, chloroplastic-like isoform X1	Juglans regia	XP_018851337.1
ARHOMBI_DN5630_c0_g2_i1_5	1,97E-42	151	KYP64251.1	CAAX prenyl protease 1 isogeny	Cajanus cajan	XP_020219597.1
ARHOMBI_DN2188_c0_g1_i1_4	0	604	XP_018837016.1	uncharacterized protein LOC109003359, partial	Juglans regia	ONI05682.1
ARUBRA_DN16537_c0_g1_i1_2	0	586	XP_018854480.1	bifunctional dTDP-4-dehydrorhamnose 3,5-epimerase/dTDP-4-dehydrorhamnose reductase	Juglans regia	XP_018820521.1
ARHOMBI_DN6250_c0_g2_i3_5	2,72E-66	211	KHN02664.1	Cysteine-rich receptor-like protein kinase 29	Glycine soja	KRH35616.1
ARUBRA_DN12906_c0_g1_i1_4	1,30E-24	97,8	XP_018839985.1	protein YIF1B-like	Juglans regia	XP_018839986.1
ARHOMBI_DN15675_c0_g1_i1_3	8,61E-94	284	XP_018837267.1	T-complex protein 1 subunit gamma isoform X2	Juglans regia	XP_018837266.1
ARHOMBI_DN20830_c0_g1_i1_1	3,07E-58	183	XP_008344672.1	DEAD-box ATP-dependent RNA helicase 52C-like, partial	Malus domestica	KDP30456.1
ARHOMBI_DN6132_c0_g5_i1_3	1,44E-55	174	XP_018856764.1	cysteine proteinase inhibitor	Juglans regia	XP_018843658.1
ARHOMBI_DN13938_c0_g1_i1_3	1,03E-55	189	KDP29853.1	hypothetical protein JCGZ_18428	Jatropha curcas	XP_012081551.1
ARHOMBI_DN343_c0_g2_i1_6	4,54E-159	456	XP_018851632.1	probable ADP-ribosylation factor GTPase-activating protein AGD5 isoform X1	Juglans regia	XP_018823524.1
ARHOMBI_DN20204_c0_g1_i1_6	1,02E-91	279	XP_018807977.1	uncharacterized protein LOC108981316	Juglans regia	XP_008236697.1
ARHOMBI_DN5653_c0_g1_i1_4	0	546	XP_018856906.1	endochitinase 2-like	Juglans regia	XP_007201290.2
ARUBRA_DN9043_c0_g1_i1_6	1,46E-54	184	XP_018811234.1	dynamin-related protein 3A	Juglans regia	XP_018826873.1
ARUBRA_DN8452_c0_g1_i1_1	8,37E-158	444	XP_018811826.1	uncharacterized protein LOC108984353	Juglans regia	ONI29911.1
ARHOMBI_DN5207_c0_g1_i1_5	2,76E-129	390	XP_015972778.1	neutral ceramidase	Arachis duranensis	KDP46568.1
ARHOMBI_DN5473_c0_g1_i1_2	6,44E-82	244	XP_018849401.1	NADH dehydrogenase ubiquinone 1 alpha subcomplex subunit 6	Juglans regia	OAY36255.1

ARHOMBI_DN15547_c1_g1_i1_2	2,21E-152	441	XP_018850096.1	TOM1-like protein 2	Juglans regia	XP_018850097.1
ARUBRA_DN21709_c0_g1_i1_1	4,59E-38	134	AGV54246.1	COP9 signalosome complex subunit 2-like protein	Phaseolus vulgaris	KOM38655.1
ARUBRA_DN7051_c0_g1_i1_2	2,17E-97	287	XP_018838997.1	delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase, peroxisomal	Juglans regia	OAY34252.1
ARUBRA_DN25464_c0_g1_i1_1	9,76E-51	162	ACJ84811.1	unknown, partial	Medicago truncatula	XP_018855205.1
ARHOMBI_DN4589_c0_g1_i1_6	3,27E-83	248	XP_018806135.1	uncharacterized protein LOC108979821	Juglans regia	XP_018824745.1
ARUBRA_DN931_c0_g1_i1_3	1,59E-97	287	XP_018829803.1	uncharacterized protein LOC108997870	Juglans regia	XP_008218429.1
ARHOMBI_DN10963_c0_g1_i1_2	2,76E-33	120	XP_018845186.1	haloacid dehalogenase-like hydrolase domain-containing protein 3 isoform X2	Juglans regia	XP_018845190.1
ARUBRA_DN14101_c0_g1_i1_6	1,89E-33	121	XP_018845848.1	DNA-damage-repair/toleration protein DRT102-like	Juglans regia	XP_018845850.1
ARHOMBI_DN18821_c0_g1_i1_3	2,36E-40	140	XP_018811389.1	1,4-alpha-glucan-branching enzyme 1, chloroplastic/amyloplastic-like	Juglans regia	XP_018845815.1
ARHOMBI_DN14763_c0_g1_i1_1	3,70E-54	185	XP_018860275.1	26S proteasome non-ATPase regulatory subunit 1 homolog A	Juglans regia	XP_018837135.1
ARUBRA_DN7233_c0_g1_i1_1	3,42E-52	180	XP_018805213.1	alpha-glucan water dikinase, chloroplastic isoform X1	Juglans regia	XP_018805213.1
ARUBRA_DN3582_c0_g2_i1_3	1,17E-85	260	XP_018820983.1	GLABRA2 expression modulator-like	Juglans regia	XP_018830258.1
ARUBRA_DN3740_c0_g1_i1_2	1,26E-90	282	XP_018846323.1	clathrin heavy chain 1-like isoform X1	Juglans regia	XP_018846324.1
ARUBRA_DN2116_c0_g1_i1_1	1,26E-122	345	XP_018834471.1	uncharacterized protein LOC109001574 isoform X1	Juglans regia	XP_018834471.1
ARHOMBI_DN6367_c0_g1_i1_3	4,54E-61	200	XP_018820447.1	T-complex protein 1 subunit epsilon	Juglans regia	OAY34423.1
ARUBRA_DN9714_c0_g1_i1_3	1,35E-44	156	XP_018816462.1	protein transport protein Sec24-like At3g07100	Juglans regia	XP_018816463.1
ARHOMBI_DN5629_c0_g1_i1_3	0	1868	XP_018827627.1	pleiotropic drug resistance protein 1-like	Juglans regia	XP_018827627.1
ARUBRA_DN17225_c0_g1_i1_6	4,43E-105	311	AFK44312.1	unknown	Lotus japonicus	XP_020211438.1
ARUBRA_DN5760_c0_g1_i1_1	0	596	XP_018813723.1	polyadenylate-binding protein 2-like	Juglans regia	XP_018813723.1
ARHOMBI_DN13303_c0_g1_i1_5	4,68E-109	342	XP_018842317.1	nodal modulator 1	Juglans regia	XP_008227880.1
ARHOMBI_DN44_c0_g1_i1_5	0	756	XP_018827773.1	uncharacterized protein LOC108996364	Juglans regia	XP_018827774.1
ARUBRA_DN2012_c0_g1_i1_3	0	791	XP_008239702.1	mannose-1-phosphate guanyltransferase alpha	Prunus mume	ONI08471.1
ARHOMBI_DN18373_c0_g1_i1_1	4,79E-124	358	XP_018839330.1	aminoacyl tRNA synthase complex-interacting multifunctional protein 1	Juglans regia	XP_008228858.1
ARUBRA_DN22899_c0_g1_i1_4	9,00E-119	358	XP_016180595.1	ABC transporter F family member 4	Arachis ipaensis	XP_015944239.1
ARUBRA_DN19779_c0_g1_i1_2	0	815	XP_018812654.1	eukaryotic initiation factor 4A-3	Juglans regia	XP_018826866.1
ARHOMBI_DN2168_c0_g1_i1_5	1,35E-136	394	XP_018837387.1	acetyl-CoA acetyltransferase, cytosolic 1	Juglans regia	OAY34999.1
ARHOMBI_DN18268_c0_g1_i1_5	2,45E-40	144	OAY34976.1	hypothetical protein MANES_12G061400	Manihot esculenta	XP_018849887.1

ARUBRA_DN20895_c0_g1_i1_4	5,41E-47	154	XP_018855286.1	phosphoinositide phosphatase SAC7-like	Juglans regia	XP_018855293.1
ARHOMBI_DN9816_c0_g1_i1_3	3,28E-05	43,9	XP_018835918.1	myb-like protein X	Juglans regia	XP_018835919.1
ARUBRA_DN6711_c0_g1_i1_1	1,90E-97	283	KDP26654.1	hypothetical protein JCGZ_17812	Jatropha curcas	XP_012085480.1
ARUBRA_DN1256_c0_g2_i1_1	0	542	OAY48170.1	hypothetical protein MANES_06G137400	Manihot esculenta	KDP22391.1
ARHOMBI_DN4768_c0_g1_i1_5	3,95E-112	333	XP_018826110.1	bifunctional 3-dehydroquinate dehydratase/shikimate dehydrogenase, chloroplastic-like isoform X2	Juglans regia	AAW65140.1
ARUBRA_DN1822_c0_g1_i1_4	0	697	XP_018826787.1	probable sucrose-phosphate synthase 1	Juglans regia	ABV32551.1
ARUBRA_DN2382_c0_g1_i1_2	5,61E-154	430	XP_018849834.1	pectinesterase 2.2-like	Juglans regia	XP_018860325.1
ARUBRA_DN6119_c0_g1_i1_1	1,92E-39	132	XP_018830814.1	mitochondrial import inner membrane translocase subunit TIM8	Juglans regia	XP_008239525.1
ARUBRA_DN19079_c0_g1_i1_2	3,58E-165	476	XP_018830495.1	pyruvate decarboxylase 1	Juglans regia	XP_018838507.1
ARUBRA_DN14154_c0_g1_i1_1	7,14E-64	200	OAY34614.1	hypothetical protein MANES_12G033800	Manihot esculenta	OAY34615.1
ARUBRA_DN6181_c0_g1_i1_5	8,28E-94	278	ADM67612.1	iron-sulfur cluster scaffold protein	Hevea brasiliensis	KDP31091.1
ARHOMBI_DN5536_c0_g1_i1_1	0	884	XP_018839273.1	pectinesterase-like	Juglans regia	XP_018850544.1
ARHOMBI_DN25582_c0_g1_i1_3	6,68E-26	95,9	XP_008389377.1	D-aminoacyl-tRNA deacylase-like	Malus domestica	ONI31116.1
ARUBRA_DN1176_c0_g1_i1_5	7,08E-34	133	XP_018844348.1	N-alpha-acetyltransferase 16, NatA auxiliary subunit-like	Juglans regia	XP_012073296.1
ARUBRA_DN766_c0_g1_i1_6	5,06E-46	161	XP_018849693.1	ERAD-associated E3 ubiquitin-protein ligase HRD1B-like	Juglans regia	XP_018849695.1
ARHOMBI_DN20645_c0_g1_i1_1	2,12E-72	223	XP_008377063.1	ABC transporter E family member 2-like	Malus domestica	XP_008377064.1
ARHOMBI_DN985_c0_g1_i1_6	2,52E-124	372	XP_018831786.1	NAD-dependent malic enzyme 59 kDa isoform, mitochondrial	Juglans regia	CAB95832.1
ARUBRA_DN14493_c0_g1_i1_2	2,46E-106	331	XP_018817805.1	leucine--tRNA ligase, cytoplasmic isoform X2	Juglans regia	XP_018817804.1
ARHOMBI_DN18281_c0_g1_i1_5	1,13E-23	96,3	XP_018825295.1	BSD domain-containing protein 1	Juglans regia	XP_008386574.1
ARHOMBI_DN18082_c0_g1_i1_2	2,91E-74	239	XP_018820267.1	ubiquitin carboxyl-terminal hydrolase MINDY-2-like	Juglans regia	XP_018820491.1
ARUBRA_DN3448_c0_g1_i1_6	8,16E-71	217	XP_018849946.1	eukaryotic translation initiation factor 1A-like	Juglans regia	XP_018849947.1
ARHOMBI_DN19564_c0_g1_i1_4	1,89E-147	433	XP_018849881.1	protein transport protein SEC23	Juglans regia	XP_015938826.1
ARHOMBI_DN18202_c0_g1_i1_6	1,04E-26	105	XP_018850353.1	RNA-binding protein 25	Juglans regia	KYP40983.1
ARUBRA_DN4562_c0_g1_i1_3	6,17E-70	222	XP_009351427.1	thylakoid lumenal 15 kDa protein 1, chloroplastic	Pyrus x bretschneideri	XP_009351427.1
ARUBRA_DN756_c0_g1_i1_1	0	729	XP_016187654.1	elongation factor Tu, chloroplastic	Arachis ipaensis	CAA61444.1
ARHOMBI_DN5795_c0_g1_i1_6	6,07E-104	303	XP_014518805.1	vesicle-associated membrane protein 722-like	Vigna radiata var. radiata	XP_007147528.1

ARUBRA_DN18766_c0_g1_i1_6	3,01E-79	243	XP_018858979.1	uncharacterized protein LOC109020906 isoform X4	Juglans regia	XP_018858977.1
ARHOMBI_DN11368_c0_g1_i1_5	8,47E-116	340	XP_018838617.1	coproporphyrinogen-III oxidase 1, chloroplastic	Juglans regia	XP_012091240.1
ARHOMBI_DN19194_c0_g1_i1_2	1,56E-153	442	XP_018847349.1	plastidial pyruvate kinase 2	Juglans regia	OAY48391.1
ARUBRA_DN21311_c0_g1_i1_6	7,39E-18	79,7	XP_018835689.1	26S protease regulatory subunit 6B homolog	Juglans regia	XP_018814878.1
ARUBRA_DN19687_c0_g1_i1_4	3,26E-48	158	XP_018823952.1	NADH dehydrogenase ubiquinone 1 beta subcomplex subunit 7-like	Juglans regia	ONI31936.1
ARHOMBI_DN1072_c0_g1_i1_2	1,20E-30	115	XP_018814411.1	uncharacterized protein LOC108986289	Juglans regia	AFK47180.1
ARHOMBI_DN4606_c0_g2_i1_3	3,52E-91	267	KHN13429.1	AP-1 complex subunit mu-2	Glycine soja	XP_018813476.1
ARHOMBI_DN3865_c0_g1_i1_4	1,10E-92	276	XP_018851775.1	ribonuclease P protein subunit p25-like protein	Juglans regia	XP_014504552.1
ARHOMBI_DN3210_c0_g1_i1_3	7,69E-93	272	XP_018828972.1	probable prefoldin subunit 5	Juglans regia	KDP37534.1
ARHOMBI_DN127_c0_g1_i1_4	1,55E-138	399	XP_018828995.1	ER membrane protein complex subunit 10	Juglans regia	ONI05218.1
ARUBRA_DN6664_c0_g1_i1_5	7,86E-121	353	XP_009351884.1	mitochondrial import inner membrane translocase subunit TIM22-like	Pyrus x bretschneideri	XP_008381679.1
ARUBRA_DN17807_c0_g1_i1_6	5,20E-18	80,5	XP_018815021.1	protein-tyrosine-phosphatase PTP1 isoform X2	Juglans regia	XP_018815024.1
ARHOMBI_DN26518_c0_g1_i1_6	1,33E-46	154	XP_018815403.1	ribose-phosphate pyrophosphokinase 4-like isoform X1	Juglans regia	XP_018815404.1
ARHOMBI_DN26272_c0_g1_i1_3	3,66E-63	211	XP_018831147.1	dynamin-2A-like	Juglans regia	XP_018834193.1
ARUBRA_DN24367_c0_g1_i1_3	3,73E-50	157	XP_008345769.1	ankyrin repeat domain-containing protein 39-like	Malus domestica	OAY42079.1
ARHOMBI_DN10852_c0_g1_i1_2	2,63E-45	154	XP_018829345.1	uncharacterized protein LOC108997482	Juglans regia	XP_018829346.1
ARUBRA_DN17980_c0_g1_i1_5	5,37E-130	381	XP_018830436.1	methyl-CpG-binding domain-containing protein 11-like isoform X1	Juglans regia	XP_018851719.1
ARHOMBI_DN178_c0_g2_i1_4	0	546	XP_018842828.1	acyl-CoA-binding domain-containing protein 1-like isoform X1	Juglans regia	XP_018824717.1
ARUBRA_DN3098_c0_g1_i1_4	1,04E-177	500	XP_018842653.1	NADH--cytochrome b5 reductase 1	Juglans regia	OAY41871.1
ARHOMBI_DN8417_c0_g1_i1_6	1,21E-35	134	XP_018806897.1	lysine--tRNA ligase isoform X1	Juglans regia	XP_018806898.1
ARUBRA_DN16531_c0_g1_i1_2	6,44E-52	163	XP_018842878.1	10 kDa chaperonin-like	Juglans regia	XP_008339549.1
ARUBRA_DN201_c0_g2_i1_4	3,45E-152	427	XP_018847846.1	ras-related protein Rab7 isoform X1	Juglans regia	XP_018847847.1
ARUBRA_DN4976_c0_g1_i1_4	0	595	XP_018851336.1	2-alkenal reductase (NADP(+)-dependent)-like isoform X2	Juglans regia	XP_018839362.1
ARUBRA_DN22472_c0_g1_i1_1	2,63E-35	130	XP_018847012.1	ATP sulfurylase 2-like	Juglans regia	XP_018812595.1
ARHOMBI_DN22711_c0_g1_i1_4	1,00E-23	96,3	XP_018833291.1	U-box domain-containing protein 2 isoform X2	Juglans regia	XP_018833290.1

ARHOMBI_DN5461_c0_g1_i2_3	4,68E-98	291	XP_018843992.1	vacuolar protein sorting-associated protein 32 homolog 2	Juglans regia	XP_018846598.1
ARUBRA_DN1871_c0_g1_i1_5	5,51E-116	334	XP_018849009.1	syntaxin-52-like isoform X2	Juglans regia	XP_018849010.1
ARHOMBI_DN11140_c0_g1_i1_4	1,36E-36	132	XP_008235410.1	ATP-dependent 6-phosphofructokinase 5, chloroplastic	Prunus mume	ONI02403.1
ARUBRA_DN23048_c0_g1_i1_5	7,18E-78	234	XP_018842585.1	ferredoxin, root R-B2-like	Juglans regia	XP_007142856.1
ARHOMBI_DN2451_c0_g1_i1_1	1,65E-78	242	XP_018835130.1	uncharacterized oxidoreductase At4g09670-like	Juglans regia	KHN00711.1
ARUBRA_DN2562_c0_g2_i2_3	4,14E-73	222	XP_018857050.1	thiosulfate sulfurtransferase 18-like isoform X1	Juglans regia	XP_018857051.1
ARHOMBI_DN20377_c0_g1_i1_1	1,32E-73	240	XP_018851614.1	glycerol-3-phosphate dehydrogenase SDP6, mitochondrial	Juglans regia	XP_014514280.1
ARUBRA_DN15849_c0_g1_i1_3	4,52E-28	108	XP_018818477.1	putative G3BP-like protein	Juglans regia	GAU19860.1
ARUBRA_DN24185_c0_g1_i1_2	1,83E-59	194	XP_017185477.1	beta-glucosidase BoGH3B-like isoform X3	Malus domestica	XP_008375543.1
ARUBRA_DN3137_c0_g1_i1_1	0	825	XP_018810823.1	glutamate dehydrogenase 1 isoform X1	Juglans regia	XP_018810824.1
ARUBRA_DN18794_c0_g1_i1_1	1,81E-116	346	XP_018828806.1	uncharacterized protein LOC108997121 isoform X3	Juglans regia	XP_018828804.1
ARHOMBI_DN16770_c0_g1_i1_3	6,66E-86	266	XP_018825750.1	aldehyde dehydrogenase 22A1	Juglans regia	ARJ55426.1
ARUBRA_DN8214_c1_g1_i1_2	1,71E-157	445	XP_018806029.1	zinc finger protein-like 1 homolog isoform X2	Juglans regia	XP_018806028.1
ARHOMBI_DN5351_c0_g3_i2_2	6,93E-21	75,9	XP_018827819.1	cytochrome c oxidase subunit 5b-1, mitochondrial-like	Juglans regia	XP_018827819.1
ARUBRA_DN26670_c0_g1_i1_1	1,74E-27	107	ONI35887.1	hypothetical protein PRUPE_1G559400	Prunus persica	XP_007225245.1
ARHOMBI_DN14110_c0_g1_i1_4	1,12E-56	186	OAY57375.1	hypothetical protein MANES_02G092300	Manihot esculenta	KYP34374.1
ARHOMBI_DN3010_c0_g2_i1_1						
ARUBRA_DN14051_c0_g1_i1_3	2,08E-45	159	XP_018859162.1	putative 3,4-dihydroxy-2-butanone kinase, partial	Juglans regia	XP_018823489.1
ARUBRA_DN20086_c0_g1_i1_3	1,25E-68	209	XP_018827356.1	bet1-like SNARE 1-1	Juglans regia	XP_018825210.1
ARUBRA_DN11076_c0_g1_i1_6	3,35E-114	332	XP_018830707.1	post-GPI attachment to proteins factor 3-like	Juglans regia	XP_018810418.1
ARHOMBI_DN25990_c0_g1_i1_4	4,97E-89	268	XP_018813794.1	ubiquitin receptor RAD23b-like	Juglans regia	XP_020226843.1
ARHOMBI_DN2521_c0_g1_i1_6	1,85E-139	407	XP_018815300.1	amidophosphoribosyltransferase, chloroplastic	Juglans regia	AFK35899.1
ARUBRA_DN3144_c0_g1_i1_5	3,18E-32	120	XP_018851892.1	ubiquitin carboxyl-terminal hydrolase 14 isoform X3	Juglans regia	XP_018851888.1
ARUBRA_DN524_c0_g2_i1_3	0	879	XP_018840074.1	protein NBR1 homolog isoform X1	Juglans regia	XP_018840075.1
ARUBRA_DN4339_c0_g1_i2_1	0	684	KDP33360.1	hypothetical protein JCGZ_12909	Jatropha curcas	KDP33360.1
ARHOMBI_DN2257_c0_g1_i1_1	3,48E-173	496	XP_018809158.1	uncharacterized protein At5g49945-like	Juglans regia	XP_018817873.1
ARUBRA_DN17897_c0_g1_i1_5	3,02E-123	375	XP_018835052.1	subtilisin-like protease SBT1.4	Juglans regia	AET01799.1
ARHOMBI_DN2123_c0_g2_i1_4	2,06E-80	249	XP_018839141.1	uncharacterized protein LOC109004890	Juglans regia	XP_018843271.1

ARUBRA_DN11421_c0_g1_i1_5	8,65E-30	115	XP_018853594.1	dihydrolipoyllysine-residue acetyltransferase component 1 of pyruvate dehydrogenase complex, mitochondrial	Juglans regia	XP_020966051.1
ARHOMBI_DN13369_c0_g1_i1_6	4,11E-59	194	XP_018816821.1	2-hydroxyacyl-CoA lyase	Juglans regia	XP_008353818.1
ARUBRA_DN10411_c0_g1_i1_2	1,42E-73	226	XP_018824341.1	UPF0160 protein	Juglans regia	ONI07578.1
ARHOMBI_DN5006_c0_g1_i1_1	4,60E-75	233	XP_018846608.1	LOW QUALITY PROTEIN: gamma aminobutyrate transaminase 3, chloroplastic	Juglans regia	XP_015952737.1
ARHOMBI_DN17209_c0_g1_i1_1	1,03E-41	147	XP_018845402.1	acyl-coenzyme A oxidase 2, peroxisomal	Juglans regia	ALB76816.1
ARUBRA_DN6201_c0_g1_i1_4	4,70E-94	276	XP_018832001.1	Golgi apparatus membrane protein-like protein ECHIDNA isoform X1	Juglans regia	XP_018816227.1
ARHOMBI_DN4317_c0_g1_i1_2	0	705	XP_018838516.1	long chain base biosynthesis protein 1	Juglans regia	XP_018838517.1
ARHOMBI_DN5264_c0_g1_i2_1	0	594	XP_018857484.1	mannose-1-phosphate guanylyltransferase 1	Juglans regia	XP_018857485.1
ARUBRA_DN3956_c0_g2_i2_6	0	657	XP_018844514.1	uncharacterized protein LOC109008754	Juglans regia	XP_018844515.1
ARUBRA_DN7892_c0_g1_i1_4	3,84E-101	306	XP_018816820.1	THO complex subunit 4D	Juglans regia	XP_018811304.1
ARUBRA_DN5621_c0_g1_i1_1	0	921	XP_018815548.1	long chain acyl-CoA synthetase 4-like	Juglans regia	XP_018824382.1
ARUBRA_DN6290_c0_g1_i1_6	8,44E-129	375	XP_018824678.1	uncharacterized protein LOC108994051 isoform X2	Juglans regia	XP_018824670.1
ARUBRA_DN8437_c0_g1_i1_2	4,54E-59	187	XP_018856589.1	vacuolar protein sorting-associated protein 20 homolog 2-like	Juglans regia	XP_018827788.1
ARHOMBI_DN2197_c0_g1_i1_2	6,92E-30	114	XP_018832979.1	calponin homology domain-containing protein DDB_G0272472-like	Juglans regia	XP_018843078.1
ARUBRA_DN20773_c0_g1_i1_2	3,57E-53	173	KYP70903.1	S-adenosylmethionine synthetase 2	Cajanus cajan	OAY42731.1
ARUBRA_DN19652_c0_g1_i1_5	8,57E-55	183	ONI31767.1	hypothetical protein PRUPE_1G329900	Prunus persica	XP_020425549.1
ARUBRA_DN23301_c0_g1_i1_2	3,44E-51	177	XP_018817805.1	leucine--tRNA ligase, cytoplasmic isoform X2	Juglans regia	XP_018817804.1
ARHOMBI_DN6000_c0_g1_i1_4	0	852	XP_018848460.1	aspartic proteinase A1-like	Juglans regia	ONI18425.1
ARHOMBI_DN27227_c0_g1_i1_2	1,19E-36	131	XP_018825366.1	SNF1-related protein kinase regulatory subunit gamma-1	Juglans regia	XP_014630956.1
ARHOMBI_DN3035_c0_g1_i1_2	1,42E-54	171	XP_018830593.1	mitochondrial import inner membrane translocase subunit TIM10-like	Juglans regia	XP_018830594.1
ARUBRA_DN7465_c0_g1_i1_1	9,27E-40	142	XP_009378530.1	acyl-coenzyme A oxidase, peroxisomal-like	Pyrus x bretschneideri	XP_008370191.1
ARHOMBI_DN25461_c0_g1_i1_3	2,50E-63	200	XP_018852310.1	protein MODIFIER OF SNC1 11-like	Juglans regia	XP_018858651.1
ARUBRA_DN23449_c0_g1_i1_4	3,90E-15	73,6	XP_018837387.1	acetyl-CoA acetyltransferase, cytosolic 1	Juglans regia	KHN43976.1
ARUBRA_DN4751_c0_g1_i2_6	5,19E-98	287	XP_018826274.1	barwin-like	Juglans regia	XP_018826287.1
ARHOMBI_DN23037_c0_g1_i1_6	1,39E-108	329	XP_018835985.1	ATP-dependent zinc metalloprotease FTSH 10, mitochondrial-like	Juglans regia	XP_020992956.1
ARHOMBI_DN17541_c0_g1_i1_1	2,67E-48	167	ONH94299.1	hypothetical protein PRUPE_7G009200	Prunus persica	XP_009366484.1
ARUBRA_DN10528_c0_g1_i1_4	2,39E-55	176	OAY60795.1	hypothetical protein MANES_01G139600	Manihot esculenta	XP_018824069.1

ARUBRA_DN13908_c0_g1_i1_4	4,22E-25	97,1	ONI03605.1	hypothetical protein PRUPE_6G268400	Prunus persica	XP_007205928.1
ARHOMBI_DN13282_c0_g1_i1_1	3,28E-57	177	XP_018828328.1	gamma aminobutyrate transaminase 3, chloroplastic-like	Juglans regia	XP_015952737.1
ARHOMBI_DN3944_c0_g1_i2_2	0	691	XP_018811976.1	CBL-interacting serine/threonine-protein kinase 9	Juglans regia	XP_008376207.1
ARHOMBI_DN19974_c0_g1_i1_4	1,13E-79	245	XP_016651062.1	monodehydroascorbate reductase 5, mitochondrial	Prunus mume	XP_018829248.1
ARUBRA_DN7017_c0_g1_i1_3	8,82E-155	439	XP_018846669.1	4-hydroxy-tetrahydrodipicolinate synthase, chloroplastic like	Juglans regia	XP_018806961.1
ARUBRA_DN1910_c0_g1_i1_5	1,18E-52	174	XP_018836471.1	ferredoxin-thioredoxin reductase, variable chain, chloroplastic	Juglans regia	XP_018836479.1
ARUBRA_DN4277_c0_g1_i1_2	1,28E-111	330	XP_018817798.1	CBS domain-containing protein CBSX1, chloroplastic-like	Juglans regia	XP_018817799.1
ARUBRA_DN22918_c0_g1_i1_6	2,08E-133	388	KDP26352.1	hypothetical protein JCGZ_17510	Jatropha curcas	XP_012085051.1
ARUBRA_DN9150_c0_g1_i1_5	1,01E-106	323	KOM29550.1	hypothetical protein LR48_Vigan727s000900	Vigna angularis	XP_018850497.1
ARHOMBI_DN6685_c1_g1_i1_6	3,63E-57	176	XP_004512667.1	protein CYPRO4-like	Cicer arietinum	KYP76357.1
ARHOMBI_DN26281_c0_g1_i1_5	6,17E-61	204	XP_018810126.1	ATPase 10, plasma membrane-type-like	Juglans regia	XP_007139050.1
ARUBRA_DN3358_c0_g1_i2_1	4,17E-95	285	XP_018829285.1	tyrosine--tRNA ligase 1, cytoplasmic	Juglans regia	XP_008380680.1
ARHOMBI_DN4457_c0_g1_i1_1	6,73E-152	440	XP_018848980.1	folylpolyglutamate synthase	Juglans regia	OAY38549.1
ARHOMBI_DN10001_c0_g1_i1_3	6,17E-78	239	XP_018818889.1	arogenate dehydratase/prephenate dehydratase 2, chloroplastic isoform X3	Juglans regia	XP_018818888.1
ARHOMBI_DN13618_c0_g2_i1_3	3,26E-68	150	XP_018841787.1	mitochondrial Rho GTPase 1-like	Juglans regia	XP_018841787.1
ARHOMBI_DN3625_c0_g1_i1_3	2,81E-104	315	XP_018819043.1	xaa-Pro dipeptidase	Juglans regia	KDP33743.1
ARHOMBI_DN23530_c0_g1_i1_1	7,23E-36	128	XP_018859899.1	dnaJ homolog subfamily C member 17-like	Juglans regia	XP_018859900.1
ARUBRA_DN21885_c0_g1_i1_1	3,96E-64	209	XP_008223314.1	dihydrolipoyl dehydrogenase 1, chloroplastic-like	Prunus mume	ONI28088.1
ARHOMBI_DN4759_c0_g2_i1_2	2,89E-115	341	XP_018843312.1	eukaryotic peptide chain release factor subunit 1-3	Juglans regia	OIW06484.1
ARHOMBI_DN995_c0_g2_i1_5	4,12E-110	328	XP_018810134.1	dihydropyrimidine dehydrogenase (NADP(+)), chloroplastic-like	Juglans regia	XP_018810134.1
ARHOMBI_DN19127_c0_g1_i1_2	1,20E-53	169	XP_018810806.1	adenylyl-sulfate kinase 3	Juglans regia	XP_018810807.1
ARUBRA_DN19640_c0_g1_i1_4	2,29E-112	330	XP_018842745.1	stomatin-like protein 2, mitochondrial	Juglans regia	XP_018828153.1
ARUBRA_DN16258_c0_g1_i1_4	3,90E-62	195	KYP71087.1	hypothetical protein KK1_010330	Cajanus cajan	XP_018502255.1
ARUBRA_DN19843_c0_g1_i1_1	1,92E-26	108	ONI36174.1	hypothetical protein PRUPE_1G573300	Prunus persica	XP_009355252.1
ARHOMBI_DN4707_c0_g1_i1_6	0	601	XP_018807462.1	membrane-associated 30 kDa protein, chloroplastic-like	Juglans regia	XP_018806924.1
ARUBRA_DN6269_c0_g1_i1_1	2,91E-68	210	OAY22084.1	hypothetical protein MANES_S031600	Manihot esculenta	XP_018819297.1

ARUBRA_DN14413_c0_g1_i1_1	1,99E-32	120	OAY26173.1	hypothetical protein MANES_16G026500	Manihot esculenta	KDP20960.1
ARUBRA_DN23541_c0_g1_i1_3	3,72E-65	201	XP_018821662.1	desumoylating isopeptidase 1-like	Juglans regia	XP_018821664.1
ARHOMBI_DN21586_c0_g1_i1_2	5,75E-91	285	XP_018811352.1	heat shock 70 kDa protein 16-like	Juglans regia	XP_018811359.1
ARUBRA_DN20454_c0_g1_i1_1	1,87E-82	266	KDP44163.1	hypothetical protein JCGZ_05630	Jatropha curcas	XP_012064944.1
ARUBRA_DN25494_c0_g1_i1_2	1,71E-45	159	XP_012066299.1	importin subunit beta-1	Jatropha curcas	KDP42918.1
ARUBRA_DN1726_c0_g1_i1_1	1,77E-107	310	OAY27343.1	hypothetical protein MANES_16G118300	Manihot esculenta	XP_018834778.1
ARUBRA_DN4369_c0_g1_i1_1	1,18E-80	241	ONH98640.1	hypothetical protein PRUPE_7G259500	Prunus persica	XP_007202663.1
ARHOMBI_DN7832_c0_g1_i1_1	2,55E-70	232	XP_018839647.1	eukaryotic translation initiation factor 3 subunit A-like	Juglans regia	XP_018839648.1
ARHOMBI_DN3921_c0_g1_i1_3	0	547	XP_018823086.1	probable bifunctional methylthioribulose-1-phosphate dehydratase/enolase-phosphatase E1 isoform X1	Juglans regia	XP_018823094.1
ARUBRA_DN729_c0_g1_i1_6	2,96E-103	310	XP_008240130.1	TPR repeat-containing thioredoxin TDX	Prunus mume	XP_008374854.1
ARUBRA_DN17182_c0_g1_i1_3	6,90E-106	317	XP_018843013.1	NPL4-like protein 1	Juglans regia	XP_008234969.1
ARUBRA_DN5225_c0_g1_i1_3	9,69E-85	255	XP_018837027.1	probable aldo-keto reductase 1	Juglans regia	XP_018817492.1
ARHOMBI_DN26642_c0_g1_i1_3	2,56E-30	115	XP_018825904.1	uncharacterized protein LOC108994927 isoform X2	Juglans regia	XP_018825905.1
ARHOMBI_DN6091_c0_g1_i3_6	1,93E-172	485	XP_018837625.1	cytochrome P450 89A2-like, partial	Juglans regia	XP_018837633.1
ARHOMBI_DN2397_c0_g1_i1_3	2,15E-87	264	XP_018812413.1	uncharacterized protein LOC108984806	Juglans regia	XP_009371362.1
ARUBRA_DN19230_c0_g1_i1_6	2,54E-109	316	XP_018844469.1	N-alpha-acetyltransferase daf-31	Juglans regia	XP_016171058.1
ARUBRA_DN10511_c0_g1_i1_4	2,44E-20	85,1	XP_018836814.1	uncharacterized protein LOC109003222	Juglans regia	XP_018805269.1
ARHOMBI_DN18648_c0_g1_i1_2	1,37E-35	125	XP_018842895.1	uridine 5'-monophosphate synthase-like	Juglans regia	XP_008348657.1
ARHOMBI_DN20035_c0_g1_i1_4	9,31E-115	343	XP_018837506.1	glucosidase 2 subunit beta	Juglans regia	KOM31758.1
ARHOMBI_DN22203_c0_g1_i1_5	9,48E-94	284	XP_018850953.1	dual specificity protein phosphatase 12-like	Juglans regia	XP_018850954.1
ARUBRA_DN8245_c0_g1_i1_1	2,35E-17	80,5	XP_018835918.1	myb-like protein X	Juglans regia	XP_018835919.1
ARUBRA_DN18674_c0_g1_i1_6	1,07E-47	164	XP_018824522.1	signal recognition particle subunit SRP68	Juglans regia	XP_018824523.1
ARUBRA_DN1052_c0_g1_i1_4	1,85E-112	324	OIV93234.1	hypothetical protein TanjilG_27413	Lupinus angustifolius	XP_019423713.1
ARUBRA_DN4497_c0_g1_i1_6	7,72E-65	203	XP_008364292.1	farnesyl pyrophosphate synthase 1-like, partial	Malus domestica	XP_018813512.1
ARHOMBI_DN23074_c0_g1_i1_6	3,58E-86	265	XP_018859944.1	uncharacterized protein LOC109021706	Juglans regia	XP_018824342.1
ARUBRA_DN17867_c0_g1_i1_4	4,44E-131	387	XP_018824851.1	histone deacetylase 5 isoform X3	Juglans regia	XP_018824848.1
ARUBRA_DN26207_c0_g1_i1_1	2,02E-18	81,6	XP_018843078.1	calponin homology domain-containing protein DDB_G0272472	Juglans regia	XP_018843079.1
ARUBRA_DN993_c0_g1_i1_2	1,10E-125	360	XP_018847771.1	40S ribosomal protein S6-like	Juglans regia	XP_008235060.1
ARUBRA_DN5001_c0_g1_i1_4	0	821	XP_012066228.2	LOW QUALITY PROTEIN: polyubiquitin-A	Jatropha curcas	XP_012066228.2

ARUBRA_DN16126_c0_g1_i1_1	0	540	XP_018850824.1	bifunctional aspartate aminotransferase and glutamate/aspartate-prephenate aminotransferase-like	Juglans regia	XP_018816075.1
ARUBRA_DN18434_c0_g1_i1_5	1,26E-76	234	GAU13040.1	hypothetical protein TSUD_173410	Trifolium subterraneum	XP_018828854.1
ARHOMBI_DN8608_c0_g1_i1_5	2,76E-143	412	XP_018827207.1	flowering locus K homology domain-like	Juglans regia	XP_018827208.1
ARUBRA_DN21219_c0_g1_i1_3	1,16E-20	87	XP_018835354.1	uricase-2 isozyme 2	Juglans regia	XP_008231809.1
ARUBRA_DN10906_c0_g1_i1_1	2,93E-53	144	XP_018846638.1	uncharacterized protein LOC109010309	Juglans regia	XP_018846638.1
ARUBRA_DN24391_c0_g1_i1_1	8,46E-42	145	OAY56557.1	hypothetical protein MANES_02G026500	Manihot esculenta	KDP25494.1
ARHOMBI_DN6909_c0_g1_i1_1	6,14E-102	305	XP_018823852.1	heterogeneous nuclear ribonucleoprotein 1-like isoform X1	Juglans regia	XP_018823852.1
ARUBRA_DN24666_c0_g1_i1_6	1,38E-48	159	XP_018856631.1	enoyl-CoA hydratase 2, peroxisomal	Juglans regia	KRH51640.1
ARUBRA_DN6630_c0_g1_i1_2	5,71E-123	351	XP_018821775.1	GDSL esterase/lipase CPRD49-like	Juglans regia	XP_018810087.1
ARUBRA_DN9370_c0_g1_i1_1	4,44E-30	105	XP_018819229.1	cytochrome c oxidase-assembly factor COX23, mitochondrial	Juglans regia	XP_007140753.1
ARUBRA_DN10905_c0_g1_i1_2	5,20E-87	265	OIW21593.1	hypothetical protein TanjilG_06439	Lupinus angustifolius	XP_019433374.1
ARHOMBI_DN13448_c0_g1_i1_5	1,11E-103	301	XP_018840252.1	inosine triphosphate pyrophosphatase isoform X2	Juglans regia	XP_018840253.1
ARUBRA_DN20978_c0_g1_i1_4	7,89E-67	215	KRH60088.1	hypothetical protein GLYMA_05G219500	Glycine max	KRH60089.1
ARUBRA_DN6384_c0_g1_i1_5	3,21E-90	283	XP_009348649.2	presequence protease 1, chloroplastic/mitochondrial-like	Pyrus x bretschneideri	XP_018835573.1
ARHOMBI_DN981_c0_g1_i1_4	0	531	ONI09471.1	hypothetical protein PRUPE_5G240500	Prunus persica	ONI09472.1
ARUBRA_DN22585_c0_g1_i1_2	3,30E-83	252	OAY29318.1	hypothetical protein MANES_15G135500	Manihot esculenta	XP_012072319.1
ARHOMBI_DN4343_c0_g1_i1_6	2,17E-138	401	XP_018821130.1	anamorsin homolog isoform X1	Juglans regia	XP_018821131.1
ARHOMBI_DN796_c0_g1_i1_1	6,79E-57	186	XP_018827562.1	UDP-N-acetylglucosamine diphosphorylase 2 isoform X1	Juglans regia	XP_018827564.1
ARUBRA_DN3285_c0_g1_i1_2	7,20E-66	202	XP_018805629.1	uncharacterized protein LOC108979405, partial	Juglans regia	XP_008339881.1
ARUBRA_DN5446_c0_g1_i1_1	4,68E-94	289	XP_008232677.1	2-isopropylmalate synthase 1, chloroplastic-like isoform X2	Prunus mume	XP_016652519.1
ARUBRA_DN10803_c0_g1_i1_2	1,57E-115	339	XP_007145516.1	hypothetical protein PHAVU_007G2449000g, partial	Phaseolus vulgaris	ESW17510.1
ARUBRA_DN16402_c0_g1_i1_6	7,62E-49	163	XP_018848063.1	UDP-glucuronate 4-epimerase 3	Juglans regia	XP_018807731.1
ARUBRA_DN19030_c0_g1_i1_1	2,88E-72	221	XP_018853893.1	EH domain-containing protein 1	Juglans regia	XP_018812205.1
ARHOMBI_DN6155_c0_g1_i1_1	0	534	XP_018837640.1	probable tocopherol O-methyltransferase, chloroplastic isoform X4	Juglans regia	XP_018837638.1
ARUBRA_DN13110_c0_g1_i1_1	1,22E-33	119	XP_018821056.1	uncharacterized protein LOC108991326	Juglans regia	XP_008388789.1
ARUBRA_DN25449_c0_g1_i1_2	3,84E-34	121	XP_018817492.1	probable aldo-keto reductase 1, partial	Juglans regia	XP_018837027.1
ARHOMBI_DN4728_c0_g3_i1_1	0	651	XP_018828049.1	serine/threonine-protein phosphatase 6 regulatory subunit 3-like	Juglans regia	XP_018847866.1

ARHOMBI_DN6142_c0_g1_i3_4	0	587	XP_009354832.1	peroxisomal (S)-2-hydroxy-acid oxidase-like isoform X1	Pyrus x bretschneideri	XP_009344324.1
ARHOMBI_DN5011_c0_g1_i1_4	1,18E-134	409	XP_018819304.1	heterogeneous nuclear ribonucleoprotein R isoform X1	Juglans regia	XP_018819308.1
ARHOMBI_DN7836_c0_g1_i1_2	0	572	XP_018849878.1	putative quinone-oxidoreductase homolog, chloroplastic	Juglans regia	XP_018844198.1
ARHOMBI_DN4465_c0_g1_i1_1	2,45E-158	461	XP_018826576.1	probable methyltransferase PMT2	Juglans regia	ONI08658.1
ARHOMBI_DN2932_c0_g2_i1_5	0	634	XP_018820175.1	monothiol glutaredoxin-S17	Juglans regia	KDP20960.1
ARHOMBI_DN6286_c0_g1_i1_6	5,62E-144	414	XP_018835872.1	SEC12-like protein 2	Juglans regia	XP_018835880.1
ARUBRA_DN17025_c0_g1_i1_2	3,74E-32	112	XP_014504331.1	glucose-1-phosphate adenylyltransferase large subunit 1 like	Vigna radiata var. radiata	XP_014504330.1
ARHOMBI_DN7489_c1_g1_i1_4	2,75E-48	166	KDP34274.1	hypothetical protein JCGZ_12843	Jatropha curcas	XP_012076264.1
ARUBRA_DN13369_c0_g1_i1_3	3,39E-56	179	KRG96658.1	hypothetical protein GLYMA_19G224500	Glycine max	KRG96659.1
ARUBRA_DN18574_c0_g1_i1_2	1,31E-63	207	OIW18923.1	hypothetical protein TanjilG_25366	Lupinus angustifolius	XP_019448161.1
ARUBRA_DN21886_c0_g1_i1_1	1,71E-76	233	XP_018837663.1	HD domain-containing protein C4G3.17	Juglans regia	XP_008243131.1
ARHOMBI_DN17203_c0_g1_i1_2	4,54E-170	496	XP_009368315.1	dynamin-related protein 3A-like	Pyrus x bretschneideri	XP_008382203.1
ARHOMBI_DN13122_c0_g1_i1_4	1,73E-15	74,3	XP_018835920.1	cysteine desulfurase, mitochondrial	Juglans regia	XP_016201576.1
ARHOMBI_DN25341_c0_g1_i1_1	1,33E-71	216	KOM30716.1	hypothetical protein LR48_Vigan01g027000	Vigna angularis	BAT73392.1
ARHOMBI_DN3340_c0_g1_i1_2	4,08E-172	496	XP_018848856.1	DEAD-box ATP-dependent RNA helicase 37-like	Juglans regia	XP_018848857.1
ARUBRA_DN3419_c0_g1_i1_6	1,04E-102	310	XP_020539645.1	glutamate--cysteine ligase, chloroplastic	Jatropha curcas	KDP25439.1
ARHOMBI_DN8889_c0_g1_i1_1	2,31E-36	133	XP_018831158.1	conserved oligomeric Golgi complex subunit 3	Juglans regia	XP_020225745.1
ARHOMBI_DN4948_c0_g1_i1_2	1,34E-55	182	XP_008229761.1	uncharacterized protein LOC103329111	Prunus mume	ONI18026.1
ARUBRA_DN23749_c0_g1_i1_2	2,46E-51	163	XP_018853827.1	uncharacterized protein LOC109015827	Juglans regia	XP_018853937.1
ARUBRA_DN23540_c0_g1_i1_4	3,71E-53	173	XP_008220830.1	ornithine carbamoyltransferase, chloroplastic	Prunus mume	ONI32617.1
ARHOMBI_DN658_c0_g1_i1_6	4,58E-138	395	XP_018857638.1	cytosolic Fe-S cluster assembly factor NBP35	Juglans regia	XP_008219249.1
ARUBRA_DN1712_c0_g1_i1_3	0	562	XP_018852252.1	probable xyloglucan endotransglucosylase/hydrolase protein 30	Juglans regia	XP_008373536.1
ARUBRA_DN9464_c0_g1_i1_3	6,94E-20	86,7	XP_008242736.1	nudix hydrolase 19, chloroplastic	Prunus mume	OAY47072.1
ARUBRA_DN8289_c0_g1_i1_1	0	531	XP_018844991.1	PI-PLC X domain-containing protein At5g67130	Juglans regia	KRH57924.1
ARHOMBI_DN11041_c0_g1_i1_3	6,72E-40	137	XP_018809442.1	glucuronokinase 1-like	Juglans regia	XP_018846473.1
ARHOMBI_DN8091_c0_g1_i1_4	1,25E-109	318	XP_018825523.1	enoyl-CoA delta isomerase 1, peroxisomal-like	Juglans regia	XP_018825524.1
ARHOMBI_DN4244_c0_g1_i2_2	1,12E-93	282	XP_008238370.1	ATP-dependent Clp protease proteolytic subunit-related protein 4, chloroplastic	Prunus mume	XP_008238371.1

ARUBRA_DN313_c0_g2_i1_6	1,14E-41	138	XP_012066031.1	cytochrome b-c1 complex subunit 6	Jatropha curcas	XP_008218833.1
ARUBRA_DN707_c0_g1_i1_4	1,42E-62	194	XP_018846320.1	60S ribosomal protein L31	Juglans regia	XP_008242444.1
ARHOMBI_DN3837_c0_g1_i1_6	9,10E-148	427	XP_018805247.1	probable WRKY transcription factor 40	Juglans regia	XP_018847539.1
ARUBRA_DN4588_c0_g1_i2_1	0	535	XP_018838814.1	insulin-degrading enzyme-like 1, peroxisomal	Juglans regia	XP_018837211.1
ARHOMBI_DN6158_c0_g1_i1_6	3,94E-161	458	XP_018850665.1	elongation factor 1-gamma-like	Juglans regia	ONI35669.1
ARHOMBI_DN6709_c0_g1_i1_2	0	574	XP_018831990.1	eukaryotic translation initiation factor 3 subunit B-like	Juglans regia	XP_015945461.1
ARHOMBI_DN12465_c0_g1_i1_1	3,18E-17	74,3	KDP22143.1	hypothetical protein JCGZ_25974	Jatropha curcas	XP_020540656.1
ARHOMBI_DN26923_c0_g1_i1_1	7,16E-59	189	XP_018825366.1	SNF1-related protein kinase regulatory subunit gamma-1	Juglans regia	XP_008239461.1
ARUBRA_DN1422_c0_g2_i1_2	0	781	XP_018813832.1	protein SUPPRESSOR OF K(+) TRANSPORT GROWTH DEFECT 1 isoform X1	Juglans regia	XP_018813833.1
ARHOMBI_DN23444_c0_g1_i1_1	1,68E-57	190	KRH00969.1	hypothetical protein GLYMA_18G245200	Glycine max	XP_015962138.1
ARUBRA_DN2399_c0_g1_i1_4	1,26E-73	222	XP_018838514.1	uncharacterized protein LOC109004430	Juglans regia	XP_015956379.1
ARUBRA_DN2263_c0_g2_i1_1	8,37E-69	219	XP_018826593.1	NAP1-related protein 2	Juglans regia	XP_018833970.1
ARHOMBI_DN15914_c0_g1_i1_1	2,58E-106	319	XP_008228667.1	COBW domain-containing protein 1	Prunus mume	ONI16329.1
ARUBRA_DN1557_c0_g1_i1_4	1,41E-62	204	XP_018851305.1	switch-associated protein 70	Juglans regia	XP_008229573.1
ARUBRA_DN4786_c0_g1_i1_2	1,32E-124	380	XP_018828049.1	serine/threonine-protein phosphatase 6 regulatory subunit 3-like	Juglans regia	XP_018847866.1
ARHOMBI_DN18534_c0_g1_i1_3	2,93E-116	336	XP_018822017.1	histidine biosynthesis bifunctional protein hisIE, chloroplastic isoform X1	Juglans regia	XP_018822018.1
ARHOMBI_DN10516_c0_g1_i1_6	9,77E-37	134	XP_018843251.1	VHS domain-containing protein At3g16270	Juglans regia	XP_018843252.1
ARUBRA_DN178_c0_g1_i1_1	8,76E-123	353	ONI19203.1	hypothetical protein PRUPE_3G264000	Prunus persica	XP_007216546.1
ARUBRA_DN24618_c0_g1_i1_5	7,76E-24	97,4	KDP26618.1	hypothetical protein JCGZ_17776	Jatropha curcas	XP_012085428.1
ARUBRA_DN23959_c0_g1_i1_1	1,13E-46	158	XP_008372028.1	acetylornithine aminotransferase, mitochondrial-like	Malus domestica	XP_008383084.1
ARUBRA_DN19174_c0_g1_i1_2	5,55E-98	300	KDP43753.1	hypothetical protein JCGZ_22380	Jatropha curcas	XP_020532739.1
ARHOMBI_DN4479_c0_g1_i1_4	5,68E-165	466	XP_018840900.1	probable prolyl 4-hydroxylase 10	Juglans regia	XP_018807322.1
ARHOMBI_DN3958_c0_g1_i1_6	8,77E-136	397	XP_018846484.1	28 kDa ribonucleoprotein, chloroplastic-like	Juglans regia	ONI19760.1
ARHOMBI_DN2738_c0_g1_i1_2	6,77E-160	479	KDP43289.1	hypothetical protein JCGZ_24210	Jatropha curcas	XP_012065800.1
ARUBRA_DN1466_c0_g2_i1_4	4,96E-84	258	XP_018844826.1	ATPase ASNA1 homolog isoform X2	Juglans regia	XP_016176650.1
ARHOMBI_DN3523_c0_g1_i1_4	1,34E-62	201	XP_018835121.1	glycylpeptide N-tetradecanoyltransferase 1-like	Juglans regia	OAY53172.1
ARHOMBI_DN1869_c0_g2_i1_5	5,21E-137	387	XP_018842827.1	thylakoid lumenal 17.4 kDa protein, chloroplastic	Juglans regia	ONI25676.1
ARUBRA_DN22416_c0_g1_i1_5	1,82E-36	129	XP_018807587.1	mitogen-activated protein kinase 8-like	Juglans regia	ONI09316.1

ARUBRA_DN446_c0_g1_i1_2	1,14E-12	64,7	XP_008387535.1	uncharacterized protein LOC103449996	Malus domestica	ACU17160.1
ARUBRA_DN1177_c0_g2_i1_1	3,32E-173	494	OAY34264.1	hypothetical protein MANES_12G007900	Manihot esculenta	OAY34266.1
ARUBRA_DN22100_c0_g1_i1_5	6,50E-67	204	XP_008246109.1	probable acyl-CoA dehydrogenase IBR3	Prunus mume	XP_018815732.1
ARHOMBI_DN9092_c0_g1_i1_2	4,99E-45	149	XP_018815442.1	mitochondrial import receptor subunit TOM20-like	Juglans regia	XP_018860144.1
ARHOMBI_DN5351_c0_g2_i1_2	1,89E-56	177	XP_020228142.1	cytochrome c oxidase subunit 5b-2, mitochondrial-like	Cajanus cajan	ACU18970.1
ARUBRA_DN3055_c0_g1_i2_3	2,45E-15	74,7	OAY59405.1	hypothetical protein MANES_01G030100	Manihot esculenta	XP_018836344.1
ARHOMBI_DN21638_c0_g1_i1_6	7,77E-72	229	XP_018841304.1	uncharacterized protein LOC109006469 isoform X4	Juglans regia	XP_018841303.1
ARUBRA_DN4234_c0_g2_i1_6	0	584	XP_008382818.1	very-long-chain enoyl-CoA reductase	Malus domestica	AGJ00072.1
ARUBRA_DN2493_c0_g1_i1_1	6,05E-104	313	XP_014509695.1	acetolactate synthase small subunit 2, chloroplastic-like	Vigna radiata var. radiata	XP_014509695.1
ARUBRA_DN7662_c0_g1_i1_2	1,21E-65	210	XP_018847038.1	tubulin-folding cofactor C	Juglans regia	XP_017188064.1
ARUBRA_DN12348_c0_g1_i1_6	5,17E-63	191	XP_018852394.1	cytochrome b5	Juglans regia	OAY59358.1
ARHOMBI_DN3285_c0_g2_i1_4	1,15E-56	180	XP_018846254.1	aldo-keto reductase family 4 member C11-like	Juglans regia	XP_018817591.1
ARHOMBI_DN8957_c0_g1_i1_1	7,21E-94	247	GAU30588.1	hypothetical protein TSUD_392790	Trifolium subterraneum	GAU30588.1
ARHOMBI_DN21971_c0_g1_i1_1	7,90E-117	336	XP_018836396.1	uncharacterized protein LOC109002925 isoform X2	Juglans regia	XP_018836396.1
ARUBRA_DN13989_c0_g1_i1_2	6,06E-33	122	XP_018825160.1	ubiquitin-like modifier-activating enzyme 5	Juglans regia	XP_009368530.1
ARUBRA_DN26201_c0_g1_i1_1	1,28E-46	161	XP_018806310.1	signal recognition particle subunit SRP72-like	Juglans regia	OAY32389.1
ARHOMBI_DN16098_c0_g1_i1_2	1,84E-58	183	XP_018811551.1	uncharacterized protein LOC108984148 isoform X2	Juglans regia	XP_018811550.1
ARHOMBI_DN2295_c0_g1_i1_1	3,50E-129	372	XP_018848880.1	uncharacterized protein LOC109011934	Juglans regia	XP_018848881.1
ARHOMBI_DN8630_c0_g1_i1_2	9,35E-58	196	XP_018845402.1	acyl-coenzyme A oxidase 2, peroxisomal	Juglans regia	OAY35867.1
ARUBRA_DN15491_c0_g1_i1_1	1,24E-34	126	XP_018809797.1	eukaryotic translation initiation factor 2A	Juglans regia	XP_018809798.1
ARUBRA_DN7176_c0_g1_i1_6	9,21E-12	63,5	XP_018813351.1	uncharacterized protein At2g24330-like	Juglans regia	XP_018813352.1
ARUBRA_DN22998_c0_g1_i1_5	9,28E-136	389	XP_018806434.1	gamma-soluble NSF attachment protein-like	Juglans regia	XP_018828462.1
ARHOMBI_DN1819_c0_g1_i1_2	6,00E-105	309	XP_018830668.1	sorbitol dehydrogenase	Juglans regia	AFK33603.1
ARUBRA_DN1769_c0_g2_i1_6	1,84E-63	199	XP_018835354.1	uricase-2 isozyme 2	Juglans regia	BAB18540.1
ARHOMBI_DN7578_c0_g1_i1_4	1,75E-93	284	XP_018822783.1	pyruvate dehydrogenase E1 component subunit alpha-3, chloroplastic	Juglans regia	OAY62077.1
ARHOMBI_DN4440_c0_g1_i1_4	9,66E-139	394	XP_018815728.1	acylpyruvase FAHD1, mitochondrial-like	Juglans regia	XP_018806160.1
ARUBRA_DN16297_c0_g1_i1_4	1,05E-106	334	XP_008237688.1	putative transcription elongation factor SPT5 homolog 1	Prunus mume	ONH89815.1
ARUBRA_DN7697_c0_g1_i1_2	1,99E-62	202	XP_018826783.1	TBC1 domain family member 17-like isoform X3	Juglans regia	XP_018826782.1
ARUBRA_DN19516_c0_g1_i1_2	0	545	XP_018852048.1	uncharacterized protein LOC109014152 isoform X1	Juglans regia	XP_018852049.1

ARUBRA_DN9248_c0_g1_i1_4	5,08E-153	438	OAY31102.1	hypothetical protein MANES_14G083500	Manihot esculenta	OAY47555.1
ARHOMBI_DN26238_c0_g1_i1_4	1,48E-34	118	XP_018819561.1	germin-like protein subfamily T member 2, partial	Juglans regia	XP_018832652.1
ARHOMBI_DN1217_c0_g2_i1_1	2,28E-61	197	ONI23731.1	hypothetical protein PRUPE_2G204600	Prunus persica	ONI23729.1
ARUBRA_DN22060_c0_g1_i1_4	2,22E-135	384	XP_018829252.1	uncharacterized protein LOC108997431	Juglans regia	ONI29700.1
ARHOMBI_DN3796_c0_g1_i1_3	0	551	XP_018823763.1	subtilisin-like protease SBT1.6	Juglans regia	XP_015952465.2
ARUBRA_DN3884_c0_g1_i1_3	4,35E-82	246	XP_012074113.1	microsomal glutathione S-transferase 3	Jatropha curcas	OAY57255.1
ARHOMBI_DN11238_c0_g1_i1_1	1,45E-58	192	XP_018854693.1	T-complex protein 1 subunit delta	Juglans regia	KDP46998.1
ARUBRA_DN20512_c0_g1_i1_5	2,14E-44	160	XP_018826937.1	uncharacterized protein LOC108995769	Juglans regia	XP_008380047.1
ARUBRA_DN2494_c0_g1_i1_5	3,58E-145	411	XP_018857760.1	phosphoglycerate mutase-like protein 4	Juglans regia	XP_018856718.1
ARHOMBI_DN25808_c0_g1_i1_4	2,83E-48	167	XP_018808786.1	valine--tRNA ligase, mitochondrial 1	Juglans regia	XP_018808787.1
ARHOMBI_DN5409_c0_g1_i1_1	0	625	XP_018841570.1	calcium-dependent protein kinase 26	Juglans regia	XP_018841571.1
ARUBRA_DN4725_c0_g1_i1_2	0	595	XP_018843117.1	cathepsin B-like	Juglans regia	ONI14643.1
ARUBRA_DN19472_c0_g1_i1_2	1,39E-110	346	XP_018810168.1	AP-4 complex subunit epsilon-like	Juglans regia	XP_018834253.1
ARUBRA_DN9681_c0_g1_i1_1	1,51E-75	229	KRH41466.1	hypothetical protein GLYMA_08G0318001, partial	Glycine max	XP_015954179.1
ARUBRA_DN21358_c0_g1_i1_1	8,33E-87	264	XP_018827029.1	zinc finger CCCH domain-containing protein 3-like	Juglans regia	XP_018827029.1
ARUBRA_DN2192_c0_g1_i1_5	8,13E-39	134	XP_018834573.1	uncharacterized protein LOC109001661	Juglans regia	XP_008244735.1
ARUBRA_DN14031_c0_g1_i1_6	1,29E-95	290	XP_009376284.1	KH domain-containing protein HEN4 isoform X2	Pyrus x bretschneideri	XP_009376284.1
ARUBRA_DN22638_c0_g1_i1_6	1,97E-31	119	OAY27593.1	hypothetical protein MANES_16G137600	Manihot esculenta	KHN08417.1
ARUBRA_DN3929_c0_g1_i2_5	1,84E-74	231	XP_018815924.1	probable aldo-keto reductase 1	Juglans regia	XP_018815922.1
ARUBRA_DN3241_c0_g1_i1_4	0	649	XP_018815559.1	mitochondrial adenine nucleotide transporter ADNT1-like isoform X1	Juglans regia	KDP28516.1
ARUBRA_DN2358_c0_g1_i1_4	2,08E-98	308	KRH45625.1	hypothetical protein GLYMA_08G283700	Glycine max	XP_016652593.1
ARUBRA_DN24043_c0_g1_i1_4	2,91E-70	218	XP_009372763.1	uncharacterized protein LOC103961851	Pyrus x bretschneideri	XP_009372764.1
ARHOMBI_DN24632_c0_g1_i1_3	8,74E-46	159	XP_017186079.1	LOW QUALITY PROTEIN: acetyl-coenzyme A synthetase, chloroplastic/glyoxysomal-like	Malus domestica	XP_016194125.1
ARHOMBI_DN26919_c0_g1_i1_4	3,46E-49	169	XP_018842163.1	beta-xylosidase/alpha-L-arabinofuranosidase 2-like	Juglans regia	KDP30704.1
ARUBRA_DN23841_c0_g1_i1_4	1,13E-44	146	XP_020206789.1	dynamin-2B-like	Cajanus cajan	XP_009348247.1
ARUBRA_DN19491_c0_g1_i1_2	6,52E-37	132	XP_018845677.1	uncharacterized protein At2g24330	Juglans regia	XP_018813351.1
ARUBRA_DN22396_c0_g1_i1_1	2,85E-54	180	XP_018819428.1	phenylalanine--tRNA ligase beta subunit, cytoplasmic-like	Juglans regia	XP_018806301.1
ARHOMBI_DN19578_c0_g1_i1_4	3,61E-102	309	XP_018836609.1	RNA-binding KH domain-containing protein PEPPER	Juglans regia	XP_008223873.1
ARHOMBI_DN3163_c0_g1_i1_3	2,92E-140	402	XP_018852058.1	ABC transporter I family member 6, chloroplastic-like	Juglans regia	XP_018852059.1

ARUBRA_DN19450_c0_g1_i1_4	6,52E-126	361	ACU22732.1	unknown, partial	Glycine max	XP_016167639.1
ARUBRA_DN130_c0_g1_i1_4	1,16E-32	126	XP_018822798.1	phosphoribosylaminoimidazole carboxylase, chloroplastic isoform X2	Juglans regia	XP_008218293.1
ARHOMBI_DN4296_c0_g1_i1_1	2,21E-155	466	KDP28258.1	hypothetical protein JCGZ_14029	Jatropha curcas	XP_012082896.1
ARUBRA_DN6440_c0_g1_i1_4	6,72E-141	401	XP_018847248.1	copper chaperone for superoxide dismutase, chloroplastic/cytosolic isoform X1	Juglans regia	XP_018847253.1
ARHOMBI_DN6362_c0_g1_i1_1	1,94E-36	125	XP_016192392.1	heat shock protein 90-6, mitochondrial-like	Arachis ipaensis	XP_018849887.1
ARHOMBI_DN23114_c0_g1_i1_1	8,39E-50	161	XP_018810863.1	26S proteasome non-ATPase regulatory subunit 9	Juglans regia	BAT79725.1
ARHOMBI_DN4923_c0_g1_i1_6	8,80E-56	176	OAY21768.1	hypothetical protein MANES_S058900	Manihot esculenta	KDP37139.1
ARUBRA_DN6647_c0_g1_i1_3	7,07E-35	123	XP_018853705.1	Golgi SNAP receptor complex member 1-2	Juglans regia	OAY62436.1
ARHOMBI_DN5696_c0_g1_i1_6	0	507	XP_018860017.1	60S ribosomal protein L8-1-like	Juglans regia	XP_018855871.1
ARUBRA_DN8888_c0_g1_i1_4	6,15E-124	350	XP_018851087.1	uncharacterized protein At3g49720-like	Juglans regia	XP_018816519.1
ARHOMBI_DN5174_c0_g2_i1_1	3,49E-34	122	XP_018820980.1	isoflavone reductase-like protein	Juglans regia	AES74192.1
ARUBRA_DN16605_c0_g1_i1_4	9,33E-166	473	XP_018822579.1	serine hydroxymethyltransferase 3, chloroplastic-like	Juglans regia	XP_018822580.1
ARHOMBI_DN18922_c0_g1_i1_3	2,50E-69	217	XP_018843094.1	uncharacterized protein LOC109007740 isoform X2	Juglans regia	XP_018843093.1
ARHOMBI_DN5270_c0_g1_i1_5	3,71E-135	388	XP_018846418.1	acid phosphatase 1-like	Juglans regia	OAY27189.1
ARHOMBI_DN9484_c0_g2_i1_3	1,23E-101	301	XP_018818704.1	26S proteasome regulatory subunit RPN13 isoform X1	Juglans regia	XP_018818705.1
ARHOMBI_DN498_c0_g1_i1_1	8,66E-126	364	XP_018842815.1	RNA-binding protein 1-like	Juglans regia	XP_018842816.1
ARHOMBI_DN1736_c0_g1_i1_6	1,09E-134	394	XP_018816821.1	2-hydroxyacyl-CoA lyase	Juglans regia	KDP33027.1
ARUBRA_DN171_c0_g2_i1_3	1,25E-81	251	XP_018843376.1	transmembrane 9 superfamily member 7	Juglans regia	XP_004510372.1
ARUBRA_DN23798_c0_g1_i1_1	8,89E-40	144	XP_018826137.1	DUF21 domain-containing protein At4g14240-like	Juglans regia	XP_018840528.1
ARHOMBI_DN9171_c0_g1_i1_1	8,34E-70	231	XP_018830702.1	LOW QUALITY PROTEIN: tripeptidyl-peptidase 2-like	Juglans regia	XP_018828368.1
ARUBRA_DN3301_c0_g2_i1_5	0	666	XP_018835470.1	autophagy-related protein 18a-like isoform X2	Juglans regia	XP_018835463.1
ARUBRA_DN2204_c0_g1_i1_6	6,79E-77	239	XP_018849298.1	E3 ubiquitin-protein ligase RING1-like	Juglans regia	KOM54584.1
ARHOMBI_DN1709_c0_g2_i1_6	1,76E-78	236	XP_018815501.1	MLP-like protein 423	Juglans regia	XP_018813307.1
ARUBRA_DN4715_c0_g1_i1_5	1,62E-126	381	XP_018818627.1	acylamino-acid-releasing enzyme isoform X3	Juglans regia	XP_018818626.1
ARHOMBI_DN17044_c0_g1_i1_2	8,59E-173	486	XP_018826207.1	acyl-coenzyme A oxidase 4, peroxisomal isoform X2	Juglans regia	XP_018826206.1
ARHOMBI_DN6819_c0_g1_i1_2	0	644	XP_018817130.1	uncharacterized protein LOC108988346 isoform X1	Juglans regia	XP_018817131.1
ARHOMBI_DN5985_c0_g1_i1_4	0	539	CAA69937.1	glutamate synthetase	Alnus glutinosa	CAY39013.1
ARUBRA_DN24121_c0_g1_i1_6	1,03E-51	166	XP_020239064.1	probable inactive purple acid phosphatase 1, partial	Cajanus cajan	XP_008243847.1
ARUBRA_DN4657_c0_g1_i1_6	3,53E-65	201	XP_018824643.1	MLP-like protein 328	Juglans regia	XP_018824604.1

ARUBRA_DN290_c0_g1_i1_5	0	564	XP_018841808.1	ATP-dependent Clp protease proteolytic subunit-related protein 3, chloroplastic	Juglans regia	XP_008246420.1
ARHOMBI_DN5862_c0_g1_i1_2	6,13E-79	246	XP_018844150.1	auxin-induced in root cultures protein 12-like	Juglans regia	XP_018827548.1
ARHOMBI_DN6231_c0_g3_i5_2	5,20E-124	361	XP_018841297.1	tropinone reductase homolog At5g06060-like	Juglans regia	XP_018850680.1
ARUBRA_DN5145_c0_g1_i1_2	2,22E-122	360	XP_018832761.1	inositol phosphorylceramide glucuronosyltransferase 1	Juglans regia	OAY44337.1
ARUBRA_DN20610_c0_g1_i1_6	1,70E-24	99	XP_018859613.1	plastidic glucose transporter 4-like	Juglans regia	XP_018816890.1
ARHOMBI_DN19734_c0_g1_i1_3	5,70E-70	222	XP_018816946.1	eukaryotic translation initiation factor 3 subunit M-like	Juglans regia	XP_020538900.1
ARHOMBI_DN13808_c0_g1_i1_5	3,08E-87	283	XP_008232710.1	BEACH domain-containing protein C2	Prunus mume	XP_016650092.1
ARUBRA_DN19459_c0_g1_i1_5	2,32E-104	303	XP_009347705.1	probable glutathione peroxidase 5 isoform X2	Pyrus x bretschneideri	XP_018501031.1
ARHOMBI_DN4450_c0_g1_i1_5	3,91E-167	470	XP_018812633.1	haloacid dehalogenase-like hydrolase domain-containing protein At3g48420	Juglans regia	XP_018812634.1
ARUBRA_DN2002_c0_g2_i1_5	5,50E-83	251	XP_018830307.1	protein CURVATURE THYLAKOID 1D, chloroplastic	Juglans regia	ONI02409.1
ARHOMBI_DN22399_c0_g1_i1_2	7,90E-57	182	XP_018814981.1	manganese-dependent ADP-ribose/CDP-alcohol diphosphatase	Juglans regia	XP_018814982.1
ARHOMBI_DN16397_c0_g1_i1_6	2,32E-70	212	XP_018823473.1	prefoldin subunit 1	Juglans regia	XP_008351369.1
ARHOMBI_DN3020_c0_g2_i1_1	1,29E-51	165	XP_008227802.1	ubiquitin-40S ribosomal protein S27a	Prunus mume	XP_008389677.1
ARHOMBI_DN6884_c0_g1_i1_5	4,70E-58	198	XP_018839647.1	eukaryotic translation initiation factor 3 subunit A-like	Juglans regia	XP_018839647.1
ARUBRA_DN21439_c0_g1_i1_3	4,24E-58	184	XP_018851362.1	pathogenesis-related protein 5	Juglans regia	XP_007141088.1
ARHOMBI_DN5298_c0_g1_i1_5	5,10E-122	352	XP_018859435.1	trafficking protein particle complex subunit 6B	Juglans regia	XP_020208519.1
ARHOMBI_DN6134_c0_g1_i2_6	1,22E-97	295	XP_018819193.1	cinnamoyl-CoA reductase 1	Juglans regia	XP_016166897.1
ARHOMBI_DN21703_c0_g1_i1_5	9,11E-69	220	ONH97794.1	hypothetical protein PRUPE_7G211000	Prunus persica	XP_007202010.1
ARHOMBI_DN1691_c0_g1_i1_5	7,23E-39	142	XP_018846051.1	diphosphomevalonate decarboxylase MVD2-like	Juglans regia	XP_018835329.1
ARHOMBI_DN20074_c0_g1_i1_1	1,01E-94	295	XP_018836580.1	aminopeptidase M1-like	Juglans regia	XP_018844701.1
ARUBRA_DN16643_c0_g1_i1_2	1,40E-53	174	XP_018850161.1	reticulon-4-interacting protein 1, mitochondrial-like isoform X2	Juglans regia	KDP34858.1
ARHOMBI_DN16129_c0_g1_i1_4	1,11E-16	79,7	XP_018809515.1	pantothenate kinase 2 isoform X2	Juglans regia	XP_018809511.1
ARUBRA_DN4512_c0_g1_i1_2	6,86E-129	375	XP_018826234.1	ERBB-3 BINDING PROTEIN 1-like	Juglans regia	XP_008243362.1
ARHOMBI_DN8916_c0_g1_i1_1	2,01E-134	385	AGT95889.1	beta-ketoacyl-ACP reductase	Vernicia fordii	XP_018852608.1

ARHOMBI_DN12802_c0_g1_i1_2	3,80E-54	181	XP_018850129.1	4-alpha-glucanotransferase, chloroplastic/amyloplastic	Juglans regia	OAY35931.1
ARUBRA_DN14943_c0_g1_i1_6	9,01E-53	167	BAC00778.1	3-methylcrotonyl CoA carboxylase, partial	Pisum sativum	XP_009367597.1
ARHOMBI_DN21499_c0_g1_i1_5	4,28E-83	258	XP_018842244.1	biotin carboxylase 1, chloroplastic isoform X3	Juglans regia	XP_018842245.1
ARHOMBI_DN16804_c0_g1_i1_2	2,51E-167	482	XP_018850062.1	acyl-CoA-binding domain-containing protein 4	Juglans regia	XP_018850062.1
ARHOMBI_DN3081_c0_g1_i2_3	0	576	XP_018841131.1	protein AIG1-like	Juglans regia	XP_018850667.1
ARHOMBI_DN26634_c0_g1_i1_6	4,00E-28	104	AFK48240.1	unknown	Lotus japonicus	XP_018825827.1
ARUBRA_DN16199_c0_g1_i1_3	1,22E-140	398	XP_018808841.1	esterase CG5412-like	Juglans regia	OAY58075.1
ARHOMBI_DN10954_c0_g1_i1_5	4,03E-50	169	XP_018841219.1	uncharacterized protein LOC109006407	Juglans regia	XP_017179882.1
ARHOMBI_DN8652_c0_g1_i1_2	4,28E-38	133	XP_018834465.1	cold-regulated 413 inner membrane protein 1, chloroplastic-like isoform X1	Juglans regia	XP_008383519.1
ARUBRA_DN26687_c0_g1_i1_2	4,20E-44	152	XP_018833108.1	cysteine desulfurase 1, chloroplastic	Juglans regia	XP_012076009.1
ARHOMBI_DN3151_c0_g2_i1_5	2,29E-24	100	XP_018847795.1	dnaJ protein P58IPK homolog	Juglans regia	XP_016207930.1
ARHOMBI_DN12758_c0_g1_i1_4	1,38E-25	102	XP_018853594.1	dihydrolipoyllysine-residue acetyltransferase component 1 of pyruvate dehydrogenase complex, mitochondrial	Juglans regia	GAU40873.1
ARUBRA_DN6423_c0_g1_i1_6	9,01E-57	183	XP_018819402.1	tetratricopeptide repeat protein 1 isoform X1	Juglans regia	XP_018819403.1
ARUBRA_DN11367_c0_g1_i1_2	3,80E-41	137	XP_018825585.1	uncharacterized protein LOC108994714	Juglans regia	XP_018826055.1
ARHOMBI_DN22357_c0_g1_i1_4	9,77E-118	355	XP_009340966.1	threonine dehydratase biosynthetic, chloroplastic	Pyrus x bretschneideri	XP_018844104.1
ARUBRA_DN20780_c0_g1_i1_5	1,19E-106	312	XP_018852079.1	uncharacterized protein LOC109014173	Juglans regia	OAY30302.1
ARHOMBI_DN17128_c0_g1_i1_2	1,89E-86	258	XP_018830864.1	uncharacterized protein LOC108998669	Juglans regia	ONI25146.1
ARHOMBI_DN21148_c0_g1_i1_2	1,00E-77	236	ONI16083.1	hypothetical protein PRUPE_3G078000	Prunus persica	ONI16084.1
ARHOMBI_DN4969_c0_g1_i1_6	1,86E-167	472	XP_018855654.1	survival of motor neuron-related-splicing factor 30 isoform X1	Juglans regia	XP_008218638.1
ARHOMBI_DN2477_c0_g2_i1_4	0	815	XP_018824671.1	uncharacterized protein LOC108994054 isoform X1	Juglans regia	XP_018824672.1
ARUBRA_DN2574_c0_g1_i1_1	7,20E-68	207	XP_018825039.1	60S ribosomal protein L17-2-like	Juglans regia	GAU16630.1
ARHOMBI_DN1345_c0_g1_i1_3	0	531	XP_018812504.1	probable inactive purple acid phosphatase 2	Juglans regia	AGL44406.1
ARUBRA_DN7816_c0_g1_i1_3	8,90E-91	270	XP_018855616.1	cystathionine beta-lyase, chloroplastic-like	Juglans regia	XP_019442365.1
ARHOMBI_DN4238_c0_g1_i1_6	4,69E-175	491	XP_018850584.1	urease accessory protein G	Juglans regia	XP_008225465.1
ARUBRA_DN17859_c0_g1_i1_6	4,74E-30	114	XP_018842287.1	probable methyltransferase PMT3	Juglans regia	GAU25817.1
ARHOMBI_DN6130_c1_g1_i2_6	8,32E-67	215	XP_018829413.1	U1 small nuclear ribonucleoprotein 70 kDa	Juglans regia	XP_018829414.1
ARUBRA_DN15205_c0_g1_i1_1	1,85E-69	224	XP_018822704.1	alpha-L-arabinofuranosidase 1	Juglans regia	XP_018822706.1

ARUBRA_DN17787_c0_g1_i1_5	6,81E-73	223	XP_018856886.1	NADP-dependent malic enzyme-like isoform X1	Juglans regia	XP_018856887.1
ARHOMBI_DN21125_c0_g1_i1_2	1,46E-45	158	XP_018858135.1	LOW QUALITY PROTEIN: phospholipase A-2-activating protein	Juglans regia	OAY25488.1
ARUBRA_DN22796_c0_g1_i1_1	1,24E-31	115	XP_018827350.1	deoxyhypusine hydroxylase	Juglans regia	XP_020213989.1
ARHOMBI_DN2978_c0_g1_i1_5	2,03E-104	317	XP_018843153.1	protoporphyrinogen oxidase 1, chloroplastic	Juglans regia	GAU40565.1
ARHOMBI_DN8760_c0_g1_i1_1	4,28E-53	181	XP_009374177.1	coatomer subunit gamma	Pyrus x bretschneideri	XP_020216389.1
ARUBRA_DN11549_c0_g1_i1_5	5,69E-98	290	XP_018846382.1	glyceraldehyde-3-phosphate dehydrogenase, cytosolic	Juglans regia	ONI30153.1
ARHOMBI_DN22363_c0_g1_i1_3	8,05E-71	229	XP_018824493.1	uncharacterized protein LOC108993891	Juglans regia	KRH14371.1
ARUBRA_DN7615_c0_g1_i1_5	1,03E-83	254	XP_018827313.1	renalase isoform X2	Juglans regia	XP_018827304.1
ARHOMBI_DN10838_c0_g1_i1_3	2,60E-64	198	XP_018815734.1	dynein light chain 2, cytoplasmic	Juglans regia	XP_018825770.1
ARHOMBI_DN1649_c0_g1_i1_5	7,75E-84	251	XP_008220194.1	proliferating cell nuclear antigen	Prunus mume	ONI00025.1
ARHOMBI_DN20781_c0_g1_i1_6	9,39E-103	296	XP_018805864.1	two-on-two hemoglobin-3-like	Juglans regia	XP_008393905.1
ARHOMBI_DN6024_c0_g1_i2_5	2,28E-167	476	XP_018835690.1	eukaryotic translation initiation factor 2 subunit beta-like	Juglans regia	XP_018828541.1
ARHOMBI_DN6092_c0_g3_i3_3	3,11E-85	269	KHN15751.1	Cysteine synthase	Glycine soja	KRG91324.1
ARUBRA_DN23408_c0_g1_i1_6	5,96E-64	211	XP_018830097.1	exocyst complex component SEC10-like	Juglans regia	XP_018819250.1
ARHOMBI_DN17360_c0_g1_i1_3	1,46E-39	140	XP_018819975.1	KH domain-containing protein HEN4-like isoform X2	Juglans regia	XP_018819977.1
ARUBRA_DN6106_c0_g1_i1_6	2,67E-34	126	XP_018828962.1	uncharacterized protein LOC108997234	Juglans regia	KDP32699.1
ARUBRA_DN8839_c0_g1_i1_5	1,37E-94	281	ABR88113.1	mitochondrial L-galactono-1,4-lactone dehydrogenase, partial	Malus domestica	XP_018807818.1
ARUBRA_DN5290_c0_g1_i1_5	1,15E-108	315	AFK37233.1	unknown	Lotus japonicus	XP_004508073.1
ARHOMBI_DN16684_c0_g1_i1_4	6,13E-134	382	XP_018840400.1	syntaxin-61-like	Juglans regia	XP_018840401.1
ARUBRA_DN16761_c0_g1_i1_6	9,22E-103	299	XP_018839849.1	serine carboxypeptidase-like 42	Juglans regia	KRH53392.1
ARUBRA_DN18234_c0_g1_i1_6	2,35E-51	163	KHN41212.1	DUF246 domain-containing protein	Glycine soja	XP_018837095.1
ARUBRA_DN483_c0_g1_i1_1	4,08E-60	206	XP_018838332.1	large proline-rich protein BAG6-like isoform X2	Juglans regia	XP_018838333.1
ARHOMBI_DN20642_c0_g1_i1_2	1,35E-43	153	XP_016197543.1	peroxisomal fatty acid beta-oxidation multifunctional protein MFP2	Arachis ipaensis	XP_015938351.1
ARHOMBI_DN1985_c0_g1_i1_1	1,50E-89	287	KDP41738.1	hypothetical protein JCGZ_26756	Jatropha curcas	XP_012067196.1
ARUBRA_DN4720_c0_g1_i2_2	3,55E-179	503	XP_018823126.1	probable prolyl 4-hydroxylase 6	Juglans regia	XP_018844780.1
ARHOMBI_DN8466_c0_g1_i1_2	3,34E-34	122	XP_018819297.1	2-dehydro-3-deoxyphosphooctonate aldolase	Juglans regia	KYP39349.1
ARUBRA_DN26386_c0_g1_i1_2	1,36E-33	125	XP_016650129.1	LOW QUALITY PROTEIN: enhancer of mRNA-decapping protein 4	Prunus mume	ONH99477.1

ARHOMBI_DN16500_c0_g1_i1_6	4,94E-50	160	XP_017183078.1	ruvB-like 2	Malus domestica	KHN01798.1
ARUBRA_DN7170_c0_g1_i1_6	4,43E-101	295	XP_018821284.1	GDSL esterase/lipase At5g62930 isoform X2	Juglans regia	XP_018821283.1
ARUBRA_DN828_c0_g1_i1_6	0	968	XP_018826303.1	ferredoxin-dependent glutamate synthase, chloroplastic-like isoform X2	Juglans regia	XP_018826298.1
ARHOMBI_DN8693_c1_g1_i1_5	7,35E-11	63,2	ONI18008.1	hypothetical protein PRUPE_3G191800	Prunus persica	ONI18009.1
ARHOMBI_DN19277_c0_g1_i1_4	5,81E-95	288	XP_018845068.1	nuclear pore complex protein NUP50A-like	Juglans regia	XP_018845069.1
ARUBRA_DN11258_c0_g1_i1_3	1,02E-39	131	OIW15117.1	hypothetical protein TanjilG_08604	Lupinus angustifolius	XP_018834193.1
ARHOMBI_DN9241_c0_g1_i1_6	3,04E-40	147	XP_018809439.1	golgin candidate 6 isoform X4	Juglans regia	XP_018809438.1
ARHOMBI_DN2715_c0_g1_i1_5	2,79E-58	188	XP_018827700.1	uncharacterized protein LOC108996318	Juglans regia	ONI09830.1
ARUBRA_DN18267_c0_g1_i1_4	4,79E-76	241	XP_018824359.1	plant UBX domain-containing protein 10	Juglans regia	ONI07554.1
ARUBRA_DN17506_c0_g1_i1_4	4,78E-157	447	XP_018805194.1	agmatine deiminase	Juglans regia	ONI09011.1
ARUBRA_DN5389_c0_g1_i1_3	3,12E-160	450	XP_018809237.1	peroxidase 51-like, partial	Juglans regia	XP_018838180.1
ARHOMBI_DN3097_c0_g1_i2_1	9,60E-78	245	XP_012087640.1	probable pectinesterase/pectinesterase inhibitor 51 isoform X2	Jatropha curcas	KDP24790.1
ARUBRA_DN5867_c0_g1_i1_1	7,54E-31	117	XP_009371085.1	probable phosphoribosylformylglycinamidine synthase, chloroplastic/mitochondrial	Pyrus x bretschneideri	XP_009371087.1
ARUBRA_DN18169_c0_g1_i1_2	5,30E-39	140	XP_018848829.1	rhomboid-like protein 15	Juglans regia	XP_018851134.1
ARUBRA_DN4178_c0_g2_i1_3	0	777	XP_018860345.1	chaperone protein dnaJ A6, chloroplastic-like	Juglans regia	XP_018834540.1
ARUBRA_DN6773_c0_g1_i1_3	2,47E-124	358	XP_018829415.1	protein RER1B-like	Juglans regia	OAY60767.1
ARHOMBI_DN20737_c0_g1_i1_3	1,11E-78	254	XP_018840722.1	alanine--tRNA ligase-like	Juglans regia	XP_018840731.1
ARUBRA_DN1212_c0_g2_i1_5	2,22E-34	129	XP_018826443.1	splicing factor U2af large subunit B isoform X4	Juglans regia	XP_018826446.1
ARUBRA_DN22616_c0_g1_i1_2	3,65E-43	150	XP_018811480.1	protein NRT1/ PTR FAMILY 8.1-like	Juglans regia	XP_018811482.1
ARHOMBI_DN4651_c0_g1_i1_3	1,83E-135	384	XP_018854606.1	ras-related protein RABA2a	Juglans regia	OAY39697.1
ARUBRA_DN4817_c0_g1_i2_6	0	998	XP_018820842.1	NADPH--cytochrome P450 reductase-like	Juglans regia	XP_018831141.1
ARUBRA_DN5232_c0_g1_i1_6						
ARUBRA_DN8160_c0_g1_i1_1	1,31E-30	113	XP_018834630.1	zinc finger CCCH domain-containing protein 14-like	Juglans regia	XP_018834630.1
ARHOMBI_DN25761_c0_g1_i1_2	1,40E-69	216	XP_020212655.1	developmentally-regulated G-protein 3	Cajanus cajan	KYP69358.1
ARUBRA_DN18459_c0_g1_i1_4	2,29E-65	200	XP_018824894.1	uncharacterized protein LOC108994217	Juglans regia	OAY47489.1
ARUBRA_DN23641_c0_g1_i1_3	1,03E-98	298	KEH21426.1	translocon at the outer membrane ofs-like protein	Medicago truncatula	XP_013447399.1
ARHOMBI_DN15083_c0_g1_i1_2	1,38E-44	149	KHN42877.1	Exocyst complex component SEC3A-like protein	Glycine soja	ONI32790.1
ARHOMBI_DN5292_c0_g1_i1_5	1,54E-101	296	XP_018820918.1	cyanate hydratase	Juglans regia	KDP29704.1
ARUBRA_DN13177_c0_g1_i1_4	9,40E-49	160	OIW04544.1	hypothetical protein TanjilG_13926	Lupinus angustifolius	XP_019457082.1

ARUBRA_DN25572_c0_g1_i1_1	3,95E-49	162	KOM31785.1	hypothetical protein LR48_Vigan01g134000	Vigna angularis	XP_020202613.1
ARHOMBI_DN10905_c0_g1_i1_3	5,82E-79	245	XP_018833108.1	cysteine desulfurase 1, chloroplastic	Juglans regia	KHN14359.1
ARHOMBI_DN4521_c0_g1_i1_6	4,16E-105	325	XP_015953920.2	dolichol kinase EVAN isoform X2	Arachis duranensis	XP_020993688.1
ARUBRA_DN16776_c0_g1_i1_3	1,73E-94	285	XP_018841012.1	probable ethanolamine kinase	Juglans regia	ONH98289.1
ARUBRA_DN3345_c0_g2_i1_6	0	673	XP_018819391.1	vacuolar-sorting receptor 1-like	Juglans regia	XP_018814376.1
ARHOMBI_DN3792_c0_g1_i2_2	3,54E-162	461	XP_018820105.1	uncharacterized protein LOC108990561	Juglans regia	XP_018820105.1
ARHOMBI_DN2492_c0_g1_i1_2	6,35E-05	44,7	XP_018818640.1	uncharacterized protein LOC108989478	Juglans regia	ONI26425.1
ARHOMBI_DN17916_c0_g1_i1_3	1,65E-109	332	KRH44980.1	hypothetical protein GLYMA_08G242100	Glycine max	CBM37992.1
ARUBRA_DN23363_c0_g1_i1_1	9,28E-38	130	XP_018847498.1	uncharacterized protein LOC109010971, partial	Juglans regia	KDP32271.1
ARUBRA_DN6829_c0_g1_i1_2	4,17E-30	117	XP_018859048.1	probable arabinosyltransferase ARAD1	Juglans regia	XP_009353973.1
ARUBRA_DN14638_c0_g1_i1_5	6,83E-33	123	XP_018842112.1	pinin	Juglans regia	OAY39908.1
ARUBRA_DN20092_c0_g1_i1_5	8,36E-14	68,6	OAY39576.1	hypothetical protein MANES_10G105800	Manihot esculenta	KDP40898.1
ARHOMBI_DN4417_c0_g1_i1_4	3,47E-146	428	XP_018811765.1	la protein 1	Juglans regia	XP_008220038.1
ARHOMBI_DN22894_c0_g1_i1_5	2,40E-49	166	XP_018832822.1	glucan endo-1,3-beta-glucosidase 8-like	Juglans regia	XP_018832823.1
ARUBRA_DN7549_c0_g1_i1_1	1,76E-68	217	XP_020981273.1	polyadenylate-binding protein RBP47C isoform X2	Arachis duranensis	XP_020981273.1
ARHOMBI_DN3368_c0_g1_i1_3	9,18E-43	145	OAY41842.1	hypothetical protein MANES_09G133600	Manihot esculenta	ONI22099.1
ARUBRA_DN1922_c0_g2_i1_6	2,56E-08	55,5	KDP46216.1	hypothetical protein JCGZ_10056	Jatropha curcas	XP_012069525.1
ARHOMBI_DN7605_c0_g1_i1_1	1,33E-20	89	XP_018817970.1	stress protein DDR48	Juglans regia	KDP27843.1
ARUBRA_DN7746_c0_g1_i1_5	1,19E-72	224	XP_018826879.1	L-galactose dehydrogenase	Juglans regia	OAY45294.1
ARUBRA_DN23775_c0_g1_i1_5	1,35E-25	102	XP_017182641.1	uncharacterized protein LOC103416653	Malus domestica	XP_009360399.1
ARUBRA_DN22204_c0_g1_i1_5	1,54E-56	177	XP_018805734.1	huntingtin-interacting protein K-like	Juglans regia	KDP27909.1
ARHOMBI_DN16579_c0_g1_i1_6	1,29E-43	142	XP_018853518.1	inositol-tetrakisphosphate 1-kinase 1-like, partial	Juglans regia	XP_018808816.1
ARUBRA_DN23978_c0_g1_i1_3	2,08E-39	135	XP_018812444.1	ubiquinone biosynthesis O-methyltransferase, mitochondrial	Juglans regia	XP_012077529.1
ARUBRA_DN293_c0_g1_i1_1	0	587	XP_018840171.1	actin-related protein 4-like	Juglans regia	XP_018825395.1
ARHOMBI_DN14395_c0_g1_i1_5	3,02E-42	149	XP_009378530.1	acyl-coenzyme A oxidase, peroxisomal-like	Pyrus x bretschneideri	XP_009345476.1
ARHOMBI_DN18669_c0_g1_i1_3	4,79E-10	58,2	XP_018812044.1	large proline-rich protein BAG6-like isoform X2	Juglans regia	XP_018812043.1
ARUBRA_DN18022_c0_g1_i1_6	5,84E-101	302	KDP29180.1	hypothetical protein JCGZ_16569	Jatropha curcas	XP_020538168.1
ARUBRA_DN784_c0_g2_i1_6	3,53E-131	377	XP_018834236.1	protein phosphatase methylesterase 1	Juglans regia	XP_018834237.1
ARUBRA_DN7117_c0_g1_i1_3	1,37E-35	130	ALN13344.1	trehalose-6-phosphate synthase-11	Hevea brasiliensis	XP_008371505.1
ARUBRA_DN13794_c0_g1_i1_1	3,95E-32	120	XP_018817805.1	leucine--tRNA ligase, cytoplasmic isoform X2	Juglans regia	XP_018817804.1
ARHOMBI_DN2834_c0_g2_i1_4	1,39E-80	248	OAY42106.1	hypothetical protein MANES_09G153400	Manihot esculenta	OAY44238.1
ARUBRA_DN7201_c0_g1_i1_6	5,56E-89	270	ONI24868.1	hypothetical protein PRUPE_2G266500	Prunus persica	XP_007218249.1

ARUBRA_DN20463_c0_g1_i1_4	2,84E-77	243	XP_018847042.1	asparagine--tRNA ligase, chloroplastic/mitochondrial isoform X2	Juglans regia	XP_020995975.1
ARUBRA_DN12786_c0_g1_i1_6	2,66E-76	235	XP_018832787.1	uncharacterized protein LOC109000390	Juglans regia	KDP27508.1
ARUBRA_DN4014_c0_g1_i1_1	7,04E-54	174	OAY41365.1	hypothetical protein MANES_09G096000	Manihot esculenta	XP_009358774.1
ARUBRA_DN21_c0_g1_i1_6	3,80E-54	183	XP_018857362.1	tetratricopeptide repeat protein 38	Juglans regia	XP_018857363.1
ARUBRA_DN14287_c0_g1_i1_2	1,90E-90	286	XP_018818948.1	protein argonaute 4-like isoform X2	Juglans regia	XP_018818945.1
ARUBRA_DN3405_c0_g2_i1_2	4,04E-15	79	KDP26787.1	hypothetical protein JCGZ_17945	Jatropha curcas	XP_012085659.1
ARHOMBI_DN17003_c0_g1_i1_2	1,18E-36	135	XP_018859492.1	putative uncharacterized protein DDB_G0277255 isoform X5	Juglans regia	XP_018834450.1
ARUBRA_DN1302_c0_g1_i1_2	3,88E-49	166	XP_018845036.1	putative oxidoreductase TDA3	Juglans regia	ONI02917.1
ARHOMBI_DN20638_c0_g1_i1_2	1,17E-37	136	XP_020421355.1	uncharacterized protein LOC18789583 isoform X1	Prunus persica	XP_008221096.1
ARHOMBI_DN3957_c0_g2_i1_3	0	726	XP_018847659.1	CBL-interacting serine/threonine-protein kinase 23 isoform X1	Juglans regia	XP_018847660.1
ARUBRA_DN19773_c0_g1_i1_2	7,31E-82	253	XP_018830985.1	DNA-damage-repair/toleration protein DRT100-like	Juglans regia	XP_018830985.1
ARHOMBI_DN15739_c0_g1_i1_6	9,93E-125	369	XP_018851146.1	calcium-dependent protein kinase 20-like	Juglans regia	XP_007145755.1
ARUBRA_DN1164_c0_g1_i1_2	4,66E-36	129	XP_008356645.1	serine/threonine-protein kinase 16-like	Malus domestica	XP_009337751.1
ARUBRA_DN12959_c0_g1_i1_2	1,51E-24	97,8	XP_018843610.1	U1 small nuclear ribonucleoprotein A-like isoform X2	Juglans regia	XP_018843609.1
ARHOMBI_DN11084_c0_g1_i1_6	7,00E-35	121	AFK39355.1	unknown	Medicago truncatula	KEH23795.1
ARUBRA_DN24628_c0_g1_i1_6	1,86E-61	199	XP_018854693.1	T-complex protein 1 subunit delta	Juglans regia	KEH35974.1
ARHOMBI_DN5257_c0_g1_i1_3	3,77E-102	303	XP_018844945.1	NADH dehydrogenase ubiquinone iron-sulfur protein 7, mitochondrial	Juglans regia	OIV89995.1
ARUBRA_DN15806_c0_g1_i1_3	1,92E-62	201	XP_018824151.1	CBS domain-containing protein CBSX6	Juglans regia	ONI05173.1
ARHOMBI_DN21683_c0_g1_i1_3	5,48E-56	189	XP_018842622.1	pyruvate kinase isozyme G, chloroplastic isoform X2	Juglans regia	XP_018842623.1
ARHOMBI_DN7504_c0_g1_i1_3	1,30E-44	145	XP_006592692.1	putative aconitate hydratase, cytoplasmic isoform X2	Glycine max	KRH26402.1
ARUBRA_DN13027_c0_g1_i1_5	2,89E-68	220	XP_018820691.1	protein S-acyltransferase 24	Juglans regia	XP_008242880.1
ARUBRA_DN22863_c0_g1_i1_4	4,93E-13	67	XP_018816062.1	plant UBX domain-containing protein 11	Juglans regia	XP_018816063.1
ARUBRA_DN19918_c0_g1_i1_5	1,00E-139	399	XP_018810395.1	peroxisomal (S)-2-hydroxy-acid oxidase GLO1	Juglans regia	AEP95753.1
ARHOMBI_DN4736_c0_g1_i1_4	0	810	XP_018832863.1	beta-glucosidase 42 isoform X1	Juglans regia	XP_009336228.1
ARUBRA_DN24058_c0_g1_i1_4	2,84E-82	261	OAY49444.1	hypothetical protein MANES_05G056900	Manihot esculenta	OAY49446.1
ARUBRA_DN4090_c0_g1_i2_2	2,69E-74	230	XP_018840945.1	Golgi to ER traffic protein 4 homolog	Juglans regia	XP_009333738.1
ARUBRA_DN13119_c0_g1_i1_6	7,07E-99	301	XP_018824706.1	pentatricopeptide repeat-containing protein At3g49240	Juglans regia	KDP32431.1
ARHOMBI_DN13499_c0_g1_i1_4	2,61E-85	258	XP_018826607.1	uncharacterized protein LOC108995484 isoform X2	Juglans regia	XP_018826606.1

ARUBRA_DN19563_c0_g1_i1_5	8,68E-135	389	XP_018848019.1	lysosomal Pro-X carboxypeptidase-like	Juglans regia	KDP32128.1
ARUBRA_DN14032_c0_g1_i1_2	4,26E-69	214	XP_017180251.1	DNA damage-inducible protein 1-like	Malus domestica	XP_020990866.1
ARHOMBI_DN5062_c0_g1_i1_6	0	1024	XP_018850821.1	inositol-3-phosphate synthase	Juglans regia	XP_018850822.1
ARHOMBI_DN24773_c0_g1_i1_3	5,95E-67	218	OAY51315.1	hypothetical protein MANES_05G204700	Manihot esculenta	XP_018826037.1
ARHOMBI_DN4958_c0_g1_i1_3	9,34E-10	55,1	XP_018815679.1	cytochrome B5-like protein	Juglans regia	XP_018815680.1
ARHOMBI_DN4594_c0_g1_i1_1	0	525	XP_018836506.1	uncharacterized protein LOC109003012	Juglans regia	ONI24131.1
ARHOMBI_DN27276_c0_g1_i1_4	2,49E-50	171	KDP41126.1	hypothetical protein JCGZ_03617	Jatropha curcas	XP_012068431.1
ARHOMBI_DN3256_c0_g1_i1_1	6,10E-111	323	XP_018839810.1	S-adenosylmethionine carrier 1, chloroplastic/mitochondrial isoform X2	Juglans regia	XP_018839807.1
ARHOMBI_DN20557_c0_g1_i1_4	3,73E-69	214	XP_008371126.1	chaperone protein dnaJ 50-like	Malus domestica	XP_020966851.1
ARHOMBI_DN186_c0_g2_i1_4	4,56E-134	389	XP_018844220.1	heparanase-like protein 1, partial	Juglans regia	XP_018835860.1
ARUBRA_DN19452_c0_g1_i1_6	2,65E-74	233	XP_018820107.1	putative G3BP-like protein	Juglans regia	XP_018807711.1
ARUBRA_DN26125_c0_g1_i1_2	8,35E-34	117	XP_018826490.1	maf-like protein DDB_G0281937 isoform X6	Juglans regia	XP_018826486.1
ARHOMBI_DN20462_c0_g1_i1_3	1,80E-60	187	XP_018850262.1	uncharacterized protein LOC109012860	Juglans regia	ONI15074.1
ARUBRA_DN3192_c0_g1_i1_2	2,27E-125	363	XP_018833227.1	HD domain-containing protein 2 isoform X1	Juglans regia	KDP38749.1
ARUBRA_DN5035_c0_g1_i1_2	3,34E-162	464	XP_018825513.1	glucan endo-1,3-beta-glucosidase-like	Juglans regia	XP_018859110.1
ARHOMBI_DN1419_c0_g1_i1_6	2,15E-101	310	XP_018834513.1	clathrin interactor EPSIN 1	Juglans regia	XP_018834519.1
ARHOMBI_DN19246_c0_g1_i1_1	1,60E-94	286	XP_018828790.1	dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1B	Juglans regia	XP_009344769.1
ARHOMBI_DN17996_c0_g1_i1_4	1,53E-33	123	XP_008339723.1	probable isoprenylcysteine alpha-carbonyl methylesterase ICMEL1	Malus domestica	XP_008348265.1
ARUBRA_DN18443_c0_g1_i1_6	8,39E-44	151	XP_018835697.1	ATP-dependent RNA helicase DBP2-like isoform X2	Juglans regia	XP_018835698.1
ARHOMBI_DN20793_c0_g1_i1_6	3,96E-36	123	OAY45897.1	hypothetical protein MANES_07G101100	Manihot esculenta	KYP35949.1
ARUBRA_DN6539_c0_g2_i1_2	0	625	XP_018828503.1	protein TIC110, chloroplastic isoform X1	Juglans regia	XP_018828504.1
ARUBRA_DN2046_c0_g2_i1_2	3,61E-102	301	XP_016189854.1	probable cinnamyl alcohol dehydrogenase 1	Arachis ipaensis	XP_015956091.1
ARUBRA_DN3646_c0_g1_i1_3	1,15E-76	236	XP_018848573.1	mitochondrial import inner membrane translocase subunit TIM23-1-like	Juglans regia	XP_018835127.1
ARUBRA_DN6310_c0_g1_i1_4	5,36E-72	230	XP_016187299.1	heat shock cognate 70 kDa protein 2	Arachis ipaensis	XP_015952265.1
ARUBRA_DN1384_c0_g1_i1_3	4,51E-78	235	KYP55926.1	Multiprotein-bridging factor 1a	Cajanus cajan	KYP67761.1
ARHOMBI_DN14955_c0_g1_i1_2	3,96E-20	86,7	XP_018832979.1	calponin homology domain-containing protein DDB_G0272472-like	Juglans regia	XP_018843078.1
ARHOMBI_DN49_c0_g2_i1_6	4,21E-164	465	XP_018837945.1	ATP-dependent Clp protease proteolytic subunit 4, chloroplastic	Juglans regia	KYP66493.1
ARUBRA_DN8685_c0_g1_i1_3	6,75E-75	231	XP_008367592.2	agmatine deiminase-like	Malus domestica	XP_008240052.1

ARHOMBI_DN17696_c0_g1_i1_3	5,78E-105	319	XP_018815772.1	signal peptide peptidase-like 3	Juglans regia	XP_018824430.1
ARUBRA_DN25420_c0_g1_i1_2	1,80E-70	229	GAU45051.1	hypothetical protein TSUD_198390	Trifolium subterraneum	ONI27993.1
ARHOMBI_DN24508_c0_g1_i1_4	1,70E-51	171	KDP46567.1	hypothetical protein JCGZ_08539	Jatropha curcas	XP_012068432.1
ARUBRA_DN13680_c0_g1_i1_6	5,30E-56	185	ONI35298.1	hypothetical protein PRUPE_1G528400	Prunus persica	ONI35297.1
ARUBRA_DN4241_c0_g1_i1_3	1,76E-133	384	ACU20301.1	unknown	Glycine max	XP_018848015.1
ARHOMBI_DN1471_c0_g1_i1_6	6,17E-69	181	KHN38822.1	Vesicle-associated protein 1-2	Glycine soja	KHN38822.1
ARHOMBI_DN7801_c0_g1_i1_5	7,26E-32	120	XP_018846729.1	exportin-2-like	Juglans regia	XP_018846730.1
ARHOMBI_DN4606_c0_g1_i1_1	1,43E-133	385	KDP31052.1	hypothetical protein JCGZ_11428	Jatropha curcas	XP_012080000.1
ARUBRA_DN17255_c0_g1_i1_6	4,58E-80	242	XP_018849968.1	probable mitochondrial import inner membrane translocase subunit TIM21 isoform X2	Juglans regia	XP_018849967.1
ARUBRA_DN17467_c0_g1_i1_6	1,30E-29	114	XP_018819162.1	eukaryotic translation initiation factor 4G-like isoform X1	Juglans regia	XP_018819170.1
ARUBRA_DN17174_c0_g1_i1_5	2,88E-49	159	XP_018815840.1	UMP-CMP kinase isoform X5	Juglans regia	XP_018815835.1
ARHOMBI_DN2723_c0_g1_i1_1	1,18E-77	231	KHN13597.1	NADP-dependent malic enzyme	Glycine soja	KRH01213.1
ARUBRA_DN13395_c0_g1_i1_4	4,61E-90	266	XP_018808381.1	40S ribosomal protein S3-2	Juglans regia	XP_018827015.1
ARUBRA_DN5089_c0_g1_i1_5	8,73E-99	300	XP_018839513.1	nicalin-1 isoform X1	Juglans regia	XP_018839514.1
ARHOMBI_DN3292_c0_g1_i1_4	7,78E-52	170	XP_018822168.1	peptidyl-prolyl cis-trans isomerase CYP21-4-like	Juglans regia	XP_018842322.1
ARHOMBI_DN8290_c0_g2_i1_4	0	542	XP_018850655.1	DEAD-box ATP-dependent RNA helicase 56-like	Juglans regia	XP_018851705.1
ARHOMBI_DN22455_c0_g1_i1_1	9,61E-74	230	XP_018848228.1	serine/arginine-rich splicing factor SR45 isoform X2	Juglans regia	XP_018848227.1
ARUBRA_DN3317_c0_g1_i1_3	4,40E-124	363	XP_009340215.1	E3 ubiquitin-protein ligase RGLG1 isoform X2 Pyrus x bretschneideri	Pyrus x bretschneideri	XP_009340213.1
ARHOMBI_DN8153_c0_g1_i1_4	8,26E-107	319	XP_018852491.1	uncharacterized protein LOC109014469	Juglans regia	ONI07118.1
ARUBRA_DN19644_c0_g1_i1_4	1,03E-61	191	KYP50859.1	putative calcium-binding protein CML21	Cajanus cajan	XP_020231881.1
ARUBRA_DN17529_c0_g1_i1_1	0	1061	XP_018834884.1	protein AUXIN SIGNALING F-BOX 2-like	Juglans regia	XP_018834885.1
ARHOMBI_DN390_c0_g1_i1_5	0	567	XP_018816499.1	importin subunit alpha-4	Juglans regia	XP_018816499.1
ARHOMBI_DN10092_c0_g1_i1_1	7,96E-63	208	XP_018816352.1	villin-3-like isoform X3	Juglans regia	XP_018857284.1
ARHOMBI_DN15307_c0_g1_i1_4	1,12E-65	207	XP_008347805.1	probable rhamnogalacturonate lyase B, partial	Malus domestica	KOM41808.1
ARHOMBI_DN9011_c0_g1_i1_2	5,70E-10	58,5	XP_018841106.1	tobamovirus multiplication protein 3-like	Juglans regia	KDP29476.1
ARHOMBI_DN18489_c0_g2_i1_2	7,68E-57	178	XP_007153889.1	hypothetical protein PHAVU_003G073500g	Phaseolus vulgaris	ESW25883.1
ARHOMBI_DN1634_c0_g1_i1_6	1,83E-125	365	XP_018847079.1	LL-diaminopimelate aminotransferase, chloroplastic-like	Juglans regia	XP_017181435.1

ARUBRA_DN8885_c0_g1_i1_2	9,16E-140	409	KRH22912.1	hypothetical protein GLYMA_13G327000	Glycine max	XP_018819501.1
ARHOMBI_DN16188_c0_g1_i1_3	2,62E-55	188	XP_018813899.1	proteasome activator subunit 4-like	Juglans regia	XP_016651528.1
ARUBRA_DN21545_c0_g1_i1_4	2,34E-12	66,6	XP_018827617.1	auxilin-related protein 2-like	Juglans regia	XP_018827618.1
ARHOMBI_DN16333_c1_g1_i1_1	1,35E-51	176	XP_018848829.1	rhomboid-like protein 15	Juglans regia	XP_018851134.1
ARUBRA_DN4684_c0_g2_i2_5	6,71E-178	506	XP_018859983.1	glyceraldehyde-3-phosphate dehydrogenase 2, cytosolic-like	Juglans regia	OAY47918.1
ARHOMBI_DN25309_c0_g1_i1_1	5,92E-50	172	XP_018846895.1	calcium-transporting ATPase 4, plasma membrane-type-like	Juglans regia	XP_004498043.1
ARHOMBI_DN7295_c0_g1_i1_3	1,76E-129	374	XP_018821557.1	glyoxylate/succinic semialdehyde reductase 2, chloroplastic	Juglans regia	XP_008228276.1
ARHOMBI_DN3332_c0_g1_i1_5	4,94E-82	250	XP_018825187.1	SUMO-activating enzyme subunit 1B-1-like	Juglans regia	OAY47973.1
ARUBRA_DN12402_c0_g1_i1_2	4,86E-88	264	XP_018850920.1	bifunctional phosphatase IMPL2, chloroplastic-like	Juglans regia	XP_018815280.1
ARHOMBI_DN9886_c0_g1_i1_3	3,00E-44	143	XP_018806695.1	uncharacterized protein LOC108980286	Juglans regia	OAY37163.1
ARHOMBI_DN16830_c0_g1_i1_4	1,38E-53	174	XP_018821765.1	PRA1 family protein B1-like	Juglans regia	XP_008374366.1
ARHOMBI_DN19962_c0_g1_i1_1	3,05E-60	206	XP_018843251.1	VHS domain-containing protein At3g16270	Juglans regia	XP_018843252.1
ARHOMBI_DN7050_c0_g1_i1_3	1,29E-103	309	XP_018841273.1	plant UBX domain-containing protein 7	Juglans regia	XP_008220984.1
ARUBRA_DN8811_c0_g1_i1_6	5,44E-166	481	XP_017187956.1	pyrophosphate-energized vacuolar membrane proton pump-like	Malus domestica	BAC41250.1
ARUBRA_DN9001_c0_g1_i1_4	3,89E-120	351	OAY57022.1	hypothetical protein MANES_02G064300	Manihot esculenta	OAY27542.1
ARHOMBI_DN17895_c0_g1_i1_5	2,58E-50	174	OAY43754.1	hypothetical protein MANES_08G095300	Manihot esculenta	KDP22848.1
ARHOMBI_DN1601_c0_g1_i1_6	0	638	XP_018843439.1	ALG-2 interacting protein X-like	Juglans regia	XP_018849759.1
ARHOMBI_DN22439_c0_g1_i1_5	1,13E-13	71,6	XP_018838880.1	fimbrin-5-like	Juglans regia	
ARHOMBI_DN3123_c0_g1_i2_2	9,73E-36	137	KDP28399.1	hypothetical protein JCGZ_14170	Jatropha curcas	XP_012083084.1
ARUBRA_DN26477_c0_g1_i1_2	5,13E-46	151	XP_018812734.1	haloacid dehalogenase-like hydrolase domain-containing protein 3	Juglans regia	XP_018812735.1
ARHOMBI_DN15728_c0_g1_i1_3	3,45E-81	256	KEH42818.1	trichome birefringence-like protein	Medicago truncatula	XP_013468781.1
ARUBRA_DN14653_c0_g1_i1_5	2,89E-43	148	XP_018810480.1	aspartic proteinase-like protein 2 isoform X2	Juglans regia	XP_009356738.1
ARUBRA_DN239_c0_g1_i1_1						
ARUBRA_DN981_c0_g1_i1_2	1,82E-96	286	XP_018831584.1	hypersensitive-induced response protein 1	Juglans regia	XP_018831585.1
ARHOMBI_DN6224_c0_g1_i3_2	0	713	XP_018824020.1	alpha-amylase-like isoform X1	Juglans regia	XP_018824021.1
ARHOMBI_DN43_c0_g1_i1_1	2,41E-86	259	XP_015951555.1	uncharacterized protein LOC107476272	Arachis duranensis	KYP39795.1
ARHOMBI_DN10061_c0_g1_i1_1	1,59E-23	91,7	XP_018848607.1	chorismate mutase 2-like	Juglans regia	XP_018860755.1

ARUBRA_DN860_c0_g1_i1_4	1,30E-35	124	XP_018845364.1	uncharacterized protein LOC109009365	Juglans regia	XP_008232032.1
ARUBRA_DN4926_c0_g2_i1_2	4,10E-54	172	XP_009364401.1	outer envelope pore protein 16, chloroplastic-like	Pyrus x bretschneideri	XP_009364415.1
ARHOMBI_DN442_c0_g2_i1_6	1,60E-96	286	XP_017428249.1	ubiquinone biosynthesis O-methyltransferase, mitochondrial	Vigna angularis	KOM46488.1
ARUBRA_DN7677_c0_g1_i1_5	0	838	XP_018821861.1	cytochrome P450 90A1 isoform X1	Juglans regia	XP_018810085.1
ARHOMBI_DN23943_c0_g1_i1_5	1,66E-111	353	KDP37070.1	hypothetical protein JCGZ_06126	Jatropha curcas	XP_012073164.1
ARHOMBI_DN5334_c0_g2_i1_6	8,88E-29	111	XP_018839364.1	chitinase-like protein 1	Juglans regia	ONI29079.1
ARHOMBI_DN2144_c0_g1_i1_2	4,35E-121	360	XP_018849269.1	phosphoacetylglucosamine mutase-like	Juglans regia	XP_018838256.1
ARUBRA_DN17900_c0_g1_i1_4	1,38E-57	179	XP_018813206.1	uncharacterized protein LOC108985380	Juglans regia	XP_008394294.1
ARUBRA_DN7215_c0_g1_i1_2	8,35E-115	337	XP_018811258.1	28S ribosomal protein S29, mitochondrial-like isoform X1	Juglans regia	XP_018828432.1
ARHOMBI_DN10966_c0_g1_i1_1	4,32E-43	149	XP_018810986.1	protein disulfide-isomerase 5-3-like	Juglans regia	ONI13146.1
ARUBRA_DN4852_c0_g1_i2_5	0	901	OAY23274.1	hypothetical protein MANES_18G065500	Manihot esculenta	KDP41408.1
ARUBRA_DN7820_c0_g1_i1_3	1,53E-92	288	XP_018836549.1	uncharacterized protein LOC109003048	Juglans regia	KDP32822.1
ARUBRA_DN3218_c0_g2_i1_1	1,12E-139	401	XP_018827848.1	tropinone reductase-like 3	Juglans regia	KDP20683.1
ARUBRA_DN14060_c0_g1_i1_6	6,16E-34	121	XP_018827350.1	deoxyhypusine hydroxylase	Juglans regia	ONH93348.1
ARHOMBI_DN3766_c0_g1_i1_2	1,50E-69	217	XP_018847917.1	peroxisomal 2,4-dienoyl-CoA reductase	Juglans regia	XP_008383145.1
ARHOMBI_DN19865_c0_g1_i1_4	4,96E-21	90,1	OAY36786.1	hypothetical protein MANES_11G048200	Manihot esculenta	XP_018845068.1
ARHOMBI_DN27008_c0_g1_i1_5	1,97E-20	88,2	XP_018816929.1	uncharacterized protein LOC108988207	Juglans regia	XP_018843198.1
ARHOMBI_DN14983_c0_g1_i1_5	4,25E-28	110	CAC82184.1	pyrroline-5-carboxylate synthetase 1	Medicago truncatula	CAC82184.1
ARUBRA_DN23880_c0_g1_i1_2	1,06E-139	436	XP_018849647.1	acetyl-CoA carboxylase 1-like	Juglans regia	XP_018849648.1
ARHOMBI_DN17419_c0_g1_i1_1	4,91E-13	67,8	ONH91506.1	hypothetical protein PRUPE_8G119400	Prunus persica	XP_007201229.1
ARUBRA_DN16616_c0_g1_i1_4	1,77E-70	215	XP_008360906.1	uncharacterized protein LOC103424589	Malus domestica	XP_018858950.1
ARUBRA_DN17646_c0_g1_i1_5	5,35E-19	89,7	OIW01530.1	hypothetical protein TanjilG_19456	Lupinus angustifolius	XP_019461657.1
ARUBRA_DN22151_c0_g1_i1_2	2,36E-34	128	XP_018815731.1	glyoxysomal fatty acid beta-oxidation multifunctional protein MFP-a-like	Juglans regia	XP_018825769.1
ARHOMBI_DN14825_c0_g1_i1_2	8,82E-36	125	XP_018819460.1	beta-galactosidase 6-like	Juglans regia	KHN22059.1
ARHOMBI_DN16314_c0_g1_i1_1	2,32E-40	136	KRH77986.1	hypothetical protein GLYMA_01G245700	Glycine max	KRH77984.1
ARHOMBI_DN3532_c0_g1_i1_4	4,79E-04	45,4	XP_018847175.1	heterogeneous nuclear ribonucleoprotein 1-like	Juglans regia	
ARHOMBI_DN4371_c0_g1_i1_5	3,07E-84	273	ONI19115.1	hypothetical protein PRUPE_3G259400	Prunus persica	XP_007214914.1
ARUBRA_DN13912_c0_g1_i1_3	1,07E-43	152	XP_018834192.1	eukaryotic translation initiation factor 2D	Juglans regia	XP_020537372.1

ARHOMBI_DN17734_c0_g1_i1_4	2,29E-15	74,3	XP_018834202.1	histidine--tRNA ligase, cytoplasmic	Juglans regia	ONH89649.1
ARHOMBI_DN21284_c0_g1_i1_3	2,01E-80	261	XP_018847260.1	calcium-transporting ATPase 10, plasma membrane-type-like	Juglans regia	XP_018847261.1
ARUBRA_DN8408_c0_g1_i1_4	2,61E-17	79,7	XP_018854869.1	eukaryotic translation initiation factor 4G-like isoform X1	Juglans regia	XP_018854875.1
ARUBRA_DN8779_c0_g1_i1_1	1,49E-88	260	XP_018853118.1	uncharacterized protein LOC109015091	Juglans regia	XP_018859289.1
ARUBRA_DN85_c0_g1_i1_3	6,61E-177	495	XP_018815404.1	ribose-phosphate pyrophosphokinase 4-like isoform X2	Juglans regia	XP_018815403.1
ARHOMBI_DN16378_c0_g1_i1_1	2,12E-50	176	XP_018849270.1	uncharacterized protein LOC109012201 isoform X1	Juglans regia	XP_018849271.1
ARHOMBI_DN22637_c0_g1_i1_5	1,42E-48	161	XP_009345032.1	1-acyl-sn-glycerol-3-phosphate acyltransferase 2-like	Pyrus x bretschneideri	XP_008392182.1
ARHOMBI_DN16961_c0_g1_i1_3	3,53E-14	69,7	XP_018817970.1	stress protein DDR48	Juglans regia	KDP27843.1
ARUBRA_DN6264_c0_g1_i1_1	4,80E-38	140	XP_018842344.1	adenylosuccinate synthetase 2, chloroplastic	Juglans regia	XP_017437496.1
ARHOMBI_DN6677_c0_g1_i1_3	1,12E-67	205	XP_018835881.1	nudix hydrolase 25	Juglans regia	XP_004498300.1
ARHOMBI_DN15571_c0_g1_i1_5	2,55E-109	332	XP_018851837.1	outer envelope protein 61	Juglans regia	ONI01600.1
ARUBRA_DN2280_c0_g1_i1_3	1,53E-97	288	XP_018849297.1	ribonuclease 2	Juglans regia	OAY34914.1
ARHOMBI_DN5894_c0_g1_i1_5	4,38E-114	345	XP_018835441.1	cullin-1-like	Juglans regia	XP_018835442.1
ARHOMBI_DN18104_c0_g1_i1_1	1,56E-54	184	XP_018836549.1	uncharacterized protein LOC109003048	Juglans regia	XP_008338671.1
ARUBRA_DN9413_c0_g1_i1_3	1,19E-140	418	XP_018837801.1	NADPH--cytochrome P450 reductase	Juglans regia	KYP69307.1
ARUBRA_DN8576_c0_g1_i1_3	3,71E-25	100	XP_018848959.1	serine/threonine protein phosphatase 2A 57 kDa regulatory subunit B' beta isoform-like	Juglans regia	XP_018848960.1
ARHOMBI_DN4497_c0_g1_i1_6	1,95E-58	188	XP_018847929.1	E3 ubiquitin ligase complex SCF subunit sconC-like	Juglans regia	XP_018806824.1
ARUBRA_DN7437_c0_g1_i1_1	4,08E-64	214	XP_018842944.1	ATP-dependent zinc metalloprotease FTSH 9, chloroplastic-like	Juglans regia	XP_018805408.1
ARUBRA_DN6344_c0_g1_i1_3	2,03E-62	206	XP_018853563.1	aspartokinase 1, chloroplastic-like	Juglans regia	XP_018840015.1
ARHOMBI_DN142_c0_g1_i2_6	2,86E-78	237	XP_018840507.1	peroxiredoxin-2F, mitochondrial-like	Juglans regia	XP_018846871.1
ARHOMBI_DN2804_c0_g1_i1_5	3,07E-65	204	XP_018814379.1	protein FATTY ACID EXPORT 3, chloroplastic	Juglans regia	XP_008244826.1
ARUBRA_DN14140_c0_g1_i1_5	6,20E-76	242	XP_018831636.1	phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and protein-tyrosine-phosphatase PTEN2A-like	Juglans regia	XP_018831637.1
ARUBRA_DN20165_c0_g1_i1_6	3,02E-20	89,7	XP_018824848.1	histone deacetylase 5 isoform X1	Juglans regia	XP_018824850.1
ARUBRA_DN11522_c0_g1_i1_2	1,88E-86	272	XP_008240143.2	LOW QUALITY PROTEIN: ERAD-associated E3 ubiquitin-protein ligase component HRD3A	Prunus mume	ONI09356.1
ARUBRA_DN7178_c0_g1_i1_1	9,57E-26	102	XP_018851429.1	AP-4 complex subunit mu	Juglans regia	ACJ85581.1

ARUBRA_DN495_c0_g1_i1_6	2,21E-49	162	XP_018811366.1	exosome complex component RRP42 isoform X3	Juglans regia	XP_018811367.1
ARUBRA_DN15567_c0_g1_i1_3	1,28E-38	139	OAY30010.1	hypothetical protein MANES_15G189800	Manihot esculenta	XP_018814583.1
ARHOMBI_DN20913_c0_g1_i1_5	3,65E-79	248	XP_018843358.1	DEAD-box ATP-dependent RNA helicase 20	Juglans regia	OAY36514.1
ARUBRA_DN19959_c0_g1_i1_6	7,76E-79	253	XP_018840095.1	quinolinate synthase, chloroplastic	Juglans regia	ALP70495.1
ARUBRA_DN8310_c0_g1_i1_2	1,30E-114	331	XP_018501879.1	sulfite reductase ferredoxin , chloroplastic-like, partial	Pyrus x bretschneideri	XP_018830969.1
ARHOMBI_DN11012_c0_g1_i1_4	1,52E-83	261	XP_018837882.1	dynamin-related protein 1C	Juglans regia	XP_018814632.1
ARUBRA_DN6936_c0_g1_i1_4	3,30E-41	142	XP_018844624.1	phosphoribosylaminoimidazole-succinocarboxamide synthase, chloroplastic isoform X2	Juglans regia	XP_018844623.1
ARHOMBI_DN21368_c0_g1_i1_6	3,36E-35	122	XP_008246189.1	alpha-L-fucosidase 1-like, partial	Prunus mume	XP_016649953.1
ARUBRA_DN5364_c0_g1_i1_3	1,54E-155	447	XP_018858534.1	glutamate-rich WD repeat-containing protein 1-like	Juglans regia	ONH97796.1
ARUBRA_DN568_c0_g1_i1_3	4,45E-101	319	XP_018828527.1	nardilysin-like	Juglans regia	ONH99660.1
ARHOMBI_DN24822_c0_g1_i1_5	3,87E-53	169	KDP46638.1	hypothetical protein JCGZ_04572	Jatropha curcas	XP_012066839.1
ARHOMBI_DN8308_c0_g1_i1_3	6,30E-91	195	XP_018808481.1	AP-1 complex subunit gamma-2-like isoform X2	Juglans regia	XP_018808481.1
ARHOMBI_DN249_c0_g1_i1_6	7,93E-49	163	XP_018833182.1	small nuclear ribonucleoprotein-associated proteins B and B'	Juglans regia	KDP34864.1
ARHOMBI_DN12088_c0_g1_i1_5	1,54E-13	69,3	XP_018818640.1	uncharacterized protein LOC108989478	Juglans regia	KDP40251.1
ARHOMBI_DN16872_c0_g1_i1_5	2,93E-51	164	ACU13705.1	unknown	Glycine max	KHN26805.1
ARHOMBI_DN12473_c0_g1_i1_6	7,31E-20	85,1	XP_018835591.1	2-hydroxyisoflavanone dehydratase-like	Juglans regia	XP_012084123.2
ARUBRA_DN9724_c0_g1_i1_1	2,72E-50	173	XP_018818858.1	carbamoyl-phosphate synthase large chain, chloroplastic	Juglans regia	XP_018818858.1
ARHOMBI_DN11959_c0_g1_i1_2	1,61E-96	290	KDP39208.1	hypothetical protein JCGZ_00965	Jatropha curcas	XP_012070932.1
ARUBRA_DN3899_c0_g2_i1_5	3,72E-131	391	XP_018846323.1	clathrin heavy chain 1-like isoform X1	Juglans regia	XP_018846324.1
ARUBRA_DN9135_c0_g1_i1_4	1,62E-70	217	XP_018815961.1	vacuolar protein sorting-associated protein 28 homolog 2	Juglans regia	XP_018815962.1
ARUBRA_DN3321_c0_g1_i1_1	2,73E-48	159	KDP26247.1	hypothetical protein JCGZ_22493	Jatropha curcas	XP_012086001.1
ARUBRA_DN3221_c0_g1_i1_6	0	715	XP_018858103.1	delta-aminolevulinic acid dehydratase, chloroplastic-like	Juglans regia	KDP32813.1
ARUBRA_DN7240_c0_g1_i1_1	2,82E-163	486	XP_018836518.1	splicing factor 3B subunit 3-like	Juglans regia	XP_018836519.1

ARUBRA_DN25966_c0_g1_i1_5	1,85E-41	149	XP_018805796.1	protein WEAK CHLOROPLAST MOVEMENT UNDER BLUE LIGHT 1-like	Juglans regia	XP_018805797.1
ARHOMBI_DN2599_c0_g1_i1_4	9,84E-67	213	XP_018826789.1	bifunctional purple acid phosphatase 26-like	Juglans regia	XP_008242837.1
ARUBRA_DN13308_c0_g1_i1_1	8,43E-18	80,1	ONI22285.1	hypothetical protein PRUPE_2G118700	Prunus persica	XP_020413518.1
ARUBRA_DN10910_c0_g1_i1_6	4,04E-80	247	XP_008235581.1	tyrosine decarboxylase 1	Prunus mume	XP_020425168.1
ARUBRA_DN24761_c0_g1_i1_3	1,57E-58	182	XP_018849082.1	Golgi SNAP receptor complex member 1-1-like isoform X1	Juglans regia	XP_018849085.1
ARHOMBI_DN11254_c0_g1_i1_1	3,03E-27	98,6	ACH58419.1	chloroplast aldolase, partial	Prunus dulcis	ONI31556.1
ARUBRA_DN24634_c0_g1_i1_5	2,22E-22	93,6	XP_018851021.1	plant intracellular Ras-group-related LRR protein 6 isoform X2	Juglans regia	XP_018851013.1
ARHOMBI_DN4130_c0_g1_i1_2	5,24E-172	491	XP_018828790.1	dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1B	Juglans regia	KDP44377.1
ARHOMBI_DN2201_c0_g1_i1_2	3,09E-40	137	XP_018821291.1	uncharacterized protein LOC108991486	Juglans regia	OIV95972.1
ARUBRA_DN19418_c0_g1_i1_3	3,75E-31	119	XP_018830673.1	uncharacterized protein LOC108998567 isoform X1	Juglans regia	XP_018830674.1
ARUBRA_DN1850_c0_g1_i1_3	1,67E-158	458	XP_018833292.1	uncharacterized protein LOC109000757	Juglans regia	XP_008229779.1
ARHOMBI_DN9657_c0_g1_i1_1	5,94E-46	152	XP_008228306.1	uncharacterized protein LOC103327716	Prunus mume	XP_012068990.1
ARUBRA_DN22015_c0_g1_i1_3	2,04E-68	225	XP_018815773.1	importin beta-like SAD2	Juglans regia	ONI29088.1
ARUBRA_DN21497_c0_g1_i1_5	1,66E-98	313	XP_018833940.1	probable manganese-transporting ATPase PDR2	Juglans regia	XP_018833946.1
ARHOMBI_DN17553_c0_g1_i1_3	3,03E-57	192	XP_020974231.1	cell division control protein 48 homolog E isoform X5	Arachis ipaensis	XP_020974232.1
ARUBRA_DN23958_c0_g1_i1_3	1,98E-83	273	XP_018813247.1	E3 ubiquitin-protein ligase UPL1-like	Juglans regia	XP_018813253.1
ARHOMBI_DN6893_c0_g1_i1_1	2,40E-154	459	KDP34897.1	hypothetical protein JCGZ_09185	Jatropha curcas	XP_018834728.1
ARUBRA_DN9664_c0_g1_i1_5	1,23E-80	255	KRH44980.1	hypothetical protein GLYMA_08G242100	Glycine max	XP_004491879.1
ARUBRA_DN3808_c0_g2_i1_1	2,16E-91	269	XP_018806533.1	probable glutathione peroxidase 2	Juglans regia	BAT72709.1
ARUBRA_DN14331_c0_g1_i1_6	9,88E-84	269	XP_020230001.1	LOW QUALITY PROTEIN: far upstream element-binding protein 2	Cajanus cajan	XP_020230001.1
ARUBRA_DN209_c0_g1_i1_5	3,39E-06	50,8	XP_018819971.1	KH domain-containing protein HEN4-like isoform X1	Juglans regia	XP_018819972.1
ARHOMBI_DN16878_c0_g1_i1_1	1,70E-41	145	XP_018847824.1	phenylalanine--tRNA ligase alpha subunit, cytoplasmic	Juglans regia	GAU11740.1
ARUBRA_DN3885_c0_g1_i1_1	6,99E-75	227	XP_018827114.1	uncharacterized protein LOC108995901	Juglans regia	XP_018807876.1
ARHOMBI_DN9575_c0_g1_i1_5	1,23E-84	260	XP_018844642.1	serine/threonine protein phosphatase 2A 55 kDa regulatory subunit B beta isoform-like isoform X1	Juglans regia	XP_018844643.1
ARHOMBI_DN4563_c0_g2_i1_3	2,78E-47	155	XP_018839487.1	1,4-alpha-glucan-branching enzyme 1, chloroplastic/amyloplastic-like, partial	Juglans regia	GAU16049.1
ARHOMBI_DN5164_c0_g1_i1_4	5,48E-106	320	XP_018820745.1	serine/arginine-rich splicing factor RS40-like isoform X6	Juglans regia	XP_018820747.1

ARUBRA_DN2931_c0_g1_i1_4	0	580	XP_008236505.1	alpha-amylase-like isoform X2	Prunus mume	XP_016650792.1
ARUBRA_DN8810_c0_g1_i1_3	0	607	XP_018846016.1	non-specific phospholipase C1-like	Juglans regia	XP_018844883.1
ARUBRA_DN27193_c0_g1_i1_3	2,83E-52	181	XP_018846305.1	BEACH domain-containing protein C2 isoform X2	Juglans regia	XP_018846304.1
ARHOMBI_DN2247_c0_g1_i1_2	7,58E-139	405	XP_018849981.1	seipin-2-like	Juglans regia	XP_008371515.1
ARUBRA_DN25129_c0_g1_i1_1	1,16E-43	145	XP_018810319.1	uncharacterized protein LOC108983212	Juglans regia	XP_009376900.1
ARUBRA_DN7581_c0_g1_i1_1	1,33E-54	179	XP_018854057.1	protein NRT1/ PTR FAMILY 5.2-like, partial	Juglans regia	XP_018820905.1
ARUBRA_DN26635_c0_g1_i1_3	2,82E-46	149	AFK36986.1	unknown	Lotus japonicus	XP_018805240.1
ARUBRA_DN25922_c0_g1_i1_4	7,49E-11	59,7	KDP32458.1	hypothetical protein JCGZ_13383	Jatropha curcas	XP_012078853.1
ARHOMBI_DN16586_c0_g1_i1_6	6,19E-83	260	XP_018841787.1	mitochondrial Rho GTPase 1-like	Juglans regia	XP_018843210.1
ARUBRA_DN23667_c0_g1_i1_3	2,14E-43	151	XP_020206492.1	serine/threonine-protein kinase 38-like	Cajanus cajan	KEH42501.1
ARHOMBI_DN1477_c0_g1_i1_3	1,67E-88	278	XP_018849698.1	glutamine--tRNA ligase-like	Juglans regia	XP_018849699.1
ARUBRA_DN23915_c0_g1_i1_1	2,93E-59	189	ONI18977.1	hypothetical protein PRUPE_3G250600	Prunus persica	XP_020416394.1
ARUBRA_DN16207_c0_g1_i1_4	1,00E-125	370	XP_018826789.1	bifunctional purple acid phosphatase 26-like	Juglans regia	XP_008242837.1
ARUBRA_DN12100_c0_g1_i1_6	3,12E-64	211	XP_018818703.1	cycloartenol synthase 2	Juglans regia	BAE53431.1
ARHOMBI_DN5013_c0_g1_i1_5	8,52E-119	343	ONH93231.1	hypothetical protein PRUPE_8G220500	Prunus persica	XP_020425518.1
ARHOMBI_DN17278_c0_g1_i1_1	7,09E-14	73,2	XP_018818025.1	E3 ubiquitin-protein ligase RNF8-like isoform X2	Juglans regia	XP_018818024.1
ARUBRA_DN8077_c0_g1_i1_3	1,88E-43	144	AFK37566.1	unknown	Lotus japonicus	ACU16958.1
ARHOMBI_DN12156_c0_g1_i1_6	7,47E-59	182	XP_008353923.2	ras-related protein RABH1e	Malus domestica	XP_018498817.1
ARHOMBI_DN19746_c0_g1_i1_3	4,97E-86	263	XP_018835079.1	developmentally-regulated G-protein 2	Juglans regia	OAY53197.1
ARHOMBI_DN5681_c0_g1_i1_3	2,47E-143	408	OAY29673.1	hypothetical protein MANES_15G163400	Manihot esculenta	XP_018847825.1
ARHOMBI_DN9772_c0_g1_i1_3	2,31E-107	309	XP_018812971.1	protein CutA, chloroplastic isoform X2	Juglans regia	XP_018812969.1
ARUBRA_DN2587_c0_g1_i1_2	2,15E-17	74,7	XP_018825755.1	ER membrane protein complex subunit 6-like	Juglans regia	XP_018825756.1
ARHOMBI_DN14925_c0_g1_i1_1	2,70E-37	134	ARE67147.1	isopropylmalate synthase	Aeschynomene evenia	ARE67148.1
ARHOMBI_DN13424_c0_g1_i1_2	3,06E-27	104	XP_018849565.1	inositol-tetrakisphosphate 1-kinase 1-like	Juglans regia	XP_018849566.1
ARHOMBI_DN17556_c0_g1_i1_2	1,50E-12	67,4	XP_018844150.1	auxin-induced in root cultures protein 12-like	Juglans regia	OAY34851.1
ARHOMBI_DN23552_c0_g1_i1_5						
ARHOMBI_DN2495_c0_g2_i1_3	2,85E-56	179	KYP43658.1	hypothetical protein KK1_034886	Cajanus cajan	XP_007157820.1
ARUBRA_DN16642_c0_g1_i1_1	1,54E-52	166	XP_007147177.1	hypothetical protein PHAVU_006G1024001g, partial	Phaseolus vulgaris	ESW19171.1
ARUBRA_DN8504_c0_g1_i1_5	8,04E-52	172	XP_018811765.1	la protein 1	Juglans regia	ONI33901.1
ARHOMBI_DN3218_c0_g1_i1_5	2,93E-162	459	XP_008228852.1	uncharacterized protein LOC103328234 isoform X1	Prunus mume	ONI16530.1

ARHOMBI_DN6191_c0_g1_i1_5	3,76E-78	233	XP_018813383.1	60S ribosomal protein L27	Juglans regia	XP_018827822.1
ARUBRA_DN13074_c0_g1_i1_4	5,70E-93	273	XP_018847089.1	cytochrome c oxidase assembly protein COX11, mitochondrial-like isoform X2	Juglans regia	XP_018847090.1
ARHOMBI_DN2701_c0_g1_i1_1	3,12E-37	136	XP_009347800.2	uncharacterized protein LOC103939438	Pyrus x bretschneideri	XP_014627166.1
ARUBRA_DN13385_c0_g1_i1_1	4,33E-33	122	KDP33932.1	hypothetical protein JCGZ_07503	Jatropha curcas	XP_020536455.1
ARHOMBI_DN4455_c0_g2_i1_5	6,37E-80	243	GAU40699.1	hypothetical protein TSUD_263490	Trifolium subterraneum	KDP24426.1
ARUBRA_DN1705_c0_g1_i1_4	1,65E-85	253	AFK46629.1	unknown	Lotus japonicus	XP_018821350.1
ARHOMBI_DN14374_c0_g1_i1_3	3,43E-34	127	XP_018835573.1	presequence protease 1, chloroplastic/mitochondrial-like	Juglans regia	XP_008373169.1
ARUBRA_DN3623_c0_g1_i1_6	8,74E-91	282	XP_018860284.1	probable eukaryotic translation initiation factor 5-1	Juglans regia	XP_008338806.1
ARUBRA_DN6227_c0_g1_i1_3	1,21E-39	144	XP_018829140.1	histone deacetylase 19-like	Juglans regia	XP_018829142.1
ARUBRA_DN14347_c0_g1_i1_6	9,28E-62	201	XP_018829161.1	uncharacterized protein LOC108997384 isoform X1	Juglans regia	XP_018829162.1
ARUBRA_DN4655_c0_g1_i1_4	1,83E-153	432	XP_018838488.1	ras-related protein RABA1f	Juglans regia	XP_018860734.1
ARUBRA_DN152_c0_g1_i1_6	7,16E-167	471	AAB63199.2	acetyl-CoA carboxylase, partial	Phaseolus vulgaris	XP_018828918.1
ARUBRA_DN21454_c0_g1_i1_1	5,61E-25	101	XP_018835518.1	UDP-glucose:glycoprotein glucosyltransferase	Juglans regia	XP_020420190.1
ARHOMBI_DN14749_c0_g1_i1_1	5,08E-37	136	XP_008243006.1	signal recognition particle receptor subunit alpha homolog	Prunus mume	OAY31837.1
ARUBRA_DN1738_c0_g1_i1_5	1,94E-04	42,7	XP_018833269.1	vacuolar cation/proton exchanger 5-like isoform X1	Juglans regia	
ARHOMBI_DN6745_c0_g1_i1_6	1,09E-56	188	XP_018829791.1	peroxisomal fatty acid beta-oxidation multifunctional protein AIM1-like isoform X1	Juglans regia	XP_018829791.1
ARHOMBI_DN9761_c0_g1_i1_5	1,48E-103	310	XP_008371893.1	probable arabinosyltransferase ARAD1	Malus domestica	XP_018859048.1
ARHOMBI_DN16459_c0_g1_i1_4	8,87E-144	416	XP_018820274.1	hydroxymethylglutaryl-CoA synthase-like	Juglans regia	XP_018820512.1
ARHOMBI_DN630_c0_g2_i1_1	2,74E-50	176	XP_018811309.1	nucleolar protein 56-like	Juglans regia	XP_018823191.1
ARUBRA_DN10120_c0_g1_i1_3	9,17E-75	231	XP_018811142.1	mevalonate kinase	Juglans regia	XP_012089081.1
ARHOMBI_DN26737_c0_g1_i1_6	2,81E-31	110	XP_018851348.1	uncharacterized protein LOC109013650	Juglans regia	XP_018851349.1
ARHOMBI_DN20055_c0_g1_i1_2	9,11E-81	265	XP_018852332.1	probable phosphoinositide phosphatase SAC9	Juglans regia	KDP35146.1
ARUBRA_DN68_c0_g2_i1_3	1,81E-11	62,4	XP_018849371.1	protein ELC-like	Juglans regia	XP_018818514.1
ARUBRA_DN18173_c0_g1_i1_5	4,84E-85	253	XP_018822055.1	peptide methionine sulfoxide reductase A5	Juglans regia	XP_004509351.1
ARHOMBI_DN11266_c0_g1_i1_5	1,60E-62	198	XP_018812777.1	hydroxyacylglutathione hydrolase 2, mitochondrial-like	Juglans regia	XP_018812778.1
ARUBRA_DN15293_c0_g1_i1_1	1,22E-54	186	XP_016183417.1	translocase of chloroplast 120, chloroplastic	Arachis ipaensis	XP_016183418.1
ARUBRA_DN16348_c0_g1_i1_1	4,15E-54	172	XP_018809955.1	eukaryotic initiation factor 4A	Juglans regia	OAY26452.1
ARUBRA_DN5557_c0_g1_i1_3	5,53E-46	157	OAY52293.1	hypothetical protein MANES_04G071600	Manihot esculenta	OAY52294.1
ARUBRA_DN807_c0_g1_i1_6	9,20E-42	139	XP_018836279.1	uncharacterized protein LOC109002826	Juglans regia	XP_018836280.1

ARHOMBI_DN22251_c0_g1_i1_1	7,87E-105	309	XP_018860390.1	uncharacterized protein LOC109022048 isoform X2	Juglans regia	XP_018860389.1
ARHOMBI_DN6086_c0_g2_i1_5	1,63E-122	352	AFP43695.1	actin 3, partial	Eriobotrya japonica	AFP43693.1
ARUBRA_DN15584_c0_g1_i1_1	1,34E-34	122	XP_018859934.1	embryogenesis-associated protein EMB8-like	Juglans regia	XP_018806108.1
ARUBRA_DN23559_c0_g1_i1_2	3,74E-09	57,4	XP_018857825.1	translocase of chloroplast 159, chloroplastic-like	Juglans regia	
ARHOMBI_DN3575_c0_g2_i1_3	3,16E-152	428	XP_018860753.1	haloacid dehalogenase-like hydrolase domain-containing protein Sgpp	Juglans regia	XP_018843522.1
ARUBRA_DN18865_c0_g1_i1_4	3,63E-65	202	XP_018825580.1	uncharacterized protein LOC108994710 isoform X3	Juglans regia	XP_018826010.1
ARUBRA_DN81_c0_g1_i1_5	2,07E-145	409	XP_018828415.1	pre-mRNA cleavage factor Im 25 kDa subunit 2-like	Juglans regia	XP_018830816.1
ARUBRA_DN17068_c0_g1_i1_4	7,90E-63	201	OAY60965.1	hypothetical protein MANES_01G153600	Manihot esculenta	KDP43747.1
ARHOMBI_DN11773_c0_g1_i1_2	2,11E-35	129	ONI09460.1	hypothetical protein PRUPE_5G239700	Prunus persica	ONI09461.1
ARHOMBI_DN15266_c0_g1_i1_2	7,17E-83	251	XP_018810253.1	chaperone protein dnaJ 49	Juglans regia	XP_018810254.1
ARHOMBI_DN19693_c0_g1_i1_6	5,30E-55	181	XP_008220200.1	probable carboxylesterase 2	Prunus mume	XP_018816089.1
ARHOMBI_DN21801_c0_g1_i1_4	1,03E-21	89,7	XP_018848003.1	syntaxin-41-like	Juglans regia	XP_018856670.1
ARHOMBI_DN676_c0_g2_i1_2	9,74E-116	336	XP_018828952.1	uncharacterized protein LOC108997227 isoform X3	Juglans regia	XP_018828950.1
ARHOMBI_DN6521_c0_g1_i1_4	7,69E-07	48,9	XP_018834883.1	nucleolin-like	Juglans regia	XP_018854830.1
ARHOMBI_DN4350_c0_g1_i1_4	4,55E-125	370	XP_018807257.1	calcium-transporting ATPase 8, plasma membrane-type-like	Juglans regia	XP_018807258.1
ARHOMBI_DN6943_c0_g1_i1_2						
ARHOMBI_DN16004_c0_g1_i1_3	2,78E-92	272	XP_018834389.1	ras-related protein RABA4c	Juglans regia	OAY44766.1
ARUBRA_DN26911_c0_g1_i1_3	1,48E-49	167	XP_018830093.1	glycerol-3-phosphate acyltransferase, chloroplastic isoform X1	Juglans regia	XP_018830095.1
ARHOMBI_DN7765_c0_g1_i1_6	7,87E-128	372	XP_018808643.1	serine/threonine-protein phosphatase 5 isoform X2	Juglans regia	OIW02858.1
ARUBRA_DN9287_c0_g1_i1_4	8,79E-72	220	XP_008239677.1	germin-like protein subfamily T member 2	Prunus mume	ONI08515.1
ARUBRA_DN10301_c0_g1_i1_3	1,31E-19	85,5	ONI10141.1	hypothetical protein PRUPE_4G030000	Prunus persica	ONI10139.1
ARHOMBI_DN25736_c0_g1_i1_6	3,21E-30	116	XP_018838333.1	large proline-rich protein BAG6-like isoform X3	Juglans regia	XP_018838332.1
ARHOMBI_DN25307_c0_g1_i1_1	3,18E-21	90,9	XP_018809157.1	protein CYPRO4-like	Juglans regia	OIW14875.1
ARHOMBI_DN827_c0_g1_i1_1	1,27E-16	80,9	XP_018839647.1	eukaryotic translation initiation factor 3 subunit A-like	Juglans regia	XP_018839648.1

ARUBRA_DN5154_c0_g1_i1_1	8,34E-96	288	OAY49286.1	hypothetical protein MANES_05G043800	Manihot esculenta	XP_008232692.1
ARHOMBI_DN10484_c0_g1_i1_1	1,45E-53	171	XP_018845444.1	uncharacterized protein LOC109009446	Juglans regia	XP_020534697.1
ARUBRA_DN4965_c9_g2_i1_4	1,01E-172	483	AKC02191.1	caffeoyl-CoA O-methyltransferase	Prunus mume	NP_001313438.1
ARHOMBI_DN650_c0_g2_i1_3	6,85E-60	198	XP_018840543.1	uncharacterized protein LOC109005908 isoform X1	Juglans regia	XP_018840544.1
ARUBRA_DN19110_c0_g1_i1_2	1,27E-82	248	XP_018818253.1	bifunctional bis(5'-adenosyl)-triphosphatase/adenylylsulfatase FHIT	Juglans regia	XP_019439570.1
ARHOMBI_DN5597_c0_g2_i1_5	3,62E-105	301	XP_018810746.1	40S ribosomal protein S15	Juglans regia	XP_018813415.1
ARUBRA_DN21139_c0_g1_i1_2	5,75E-54	185	XP_008376320.1	regulator of nonsense transcripts UPF2-like	Malus domestica	XP_008233383.1
ARUBRA_DN3651_c0_g1_i1_3	4,99E-19	81,6	XP_018818788.1	GDP-mannose transporter GONST3-like isoform X2	Juglans regia	XP_018818787.1
ARUBRA_DN460_c0_g1_i1_6	1,95E-115	340	XP_018847561.1	D-glycerate 3-kinase, chloroplastic	Juglans regia	XP_020966505.1
ARUBRA_DN26660_c0_g1_i1_1	4,53E-57	193	XP_018820213.1	putative U-box domain-containing protein 50	Juglans regia	XP_018839024.1
ARHOMBI_DN2961_c0_g1_i1_6	4,80E-75	225	KDP33899.1	hypothetical protein JCGZ_07470	Jatropha curcas	XP_020536326.1
ARUBRA_DN15712_c0_g1_i1_3						
ARHOMBI_DN5284_c0_g3_i1_5	8,19E-78	244	XP_018806799.1	glycerol kinase	Juglans regia	XP_009336317.1
ARHOMBI_DN12176_c0_g1_i1_1	7,16E-17	77,4	XP_018815618.1	uncharacterized protein LOC108987198 isoform X1	Juglans regia	XP_018815619.1
ARUBRA_DN4419_c0_g1_i1_1	4,31E-123	360	XP_018852158.1	26S proteasome non-ATPase regulatory subunit 11 homolog	Juglans regia	ONI30885.1
ARUBRA_DN3086_c0_g1_i1_4	5,48E-122	351	XP_018841000.1	heme oxygenase 1, chloroplastic	Juglans regia	ONH98326.1
ARUBRA_DN5853_c0_g1_i1_3	6,86E-33	119	XP_018836110.1	acidic endochitinase-like	Juglans regia	XP_018817162.1
ARHOMBI_DN12506_c0_g1_i1_1						
ARUBRA_DN10624_c0_g1_i1_5	1,41E-50	162	ADV04063.1	protein binding/ubiquitin-protein ligase 2	Hevea brasiliensis	AGQ57016.1
ARHOMBI_DN13880_c0_g1_i1_4	8,43E-29	108	XP_018846626.1	serpin-ZX-like isoform X2	Juglans regia	XP_018846625.1
ARHOMBI_DN23964_c0_g1_i1_2	4,72E-45	157	KDP30704.1	hypothetical protein JCGZ_16402	Jatropha curcas	XP_012080785.1
ARUBRA_DN7424_c0_g1_i1_6	1,32E-106	323	XP_018825737.1	protein pleiotropic regulatory locus 1	Juglans regia	XP_018825738.1
ARHOMBI_DN5795_c0_g1_i1_5	6,07E-104	303	XP_014518805.1	vesicle-associated membrane protein 722-like	Vigna radiata var. radiata	XP_007147528.1
ARHOMBI_DN6070_c0_g2_i1_6	2,79E-59	189	XP_018824389.1	uncharacterized protein LOC108993809 isoform X1	Juglans regia	XP_018824390.1
ARUBRA_DN5014_c0_g1_i1_2	1,51E-57	183	XP_017186549.1	omega-3 fatty acid desaturase, chloroplastic-like	Malus domestica	AGC51776.1
ARHOMBI_DN8315_c0_g1_i1_3	2,01E-66	211	XP_018831134.1	CBL-interacting serine/threonine-protein kinase 21-like	Juglans regia	XP_018820844.1
ARUBRA_DN13376_c0_g1_i1_4	4,62E-120	343	AAL16968.1	AF367452_1 hexokinase, partial	Prunus persica	XP_009338735.1
ARUBRA_DN21106_c0_g1_i1_3	4,84E-66	219	XP_018821055.1	exocyst complex component SEC5A-like	Juglans regia	XP_008375648.1

ARUBRA_DN22162_c0_g1_i1_5	4,08E-15	77,4	XP_018813392.1	death-associated protein kinase 1-like	Juglans regia	XP_018825087.1

Protein IDs	found in soluble proteome	found in total proteome	name [blastx hit 1]	allergome code	Description	Code	Score	e-value	%Identity
TRINITY_DN8608_c2_g1_i2_5	x	x	major allergen	235	Cor a 1.0103	uniprot:Q08407	321	2.0e-89	98
TRINITY_DN11207_c0_g1_i2_3	x	x	major allergen Cor a 1	238	Cor a 1.0301	uniprot:Q39454	290	8,00E-80	92
TRINITY_DN8608_c2_g1_i1_5	x	x	major allergen	234	Cor a 1.0102	uniprot:Q08407	229	1,00E-61	99
TRINITY_DN11207_c0_g1_i1_3	x	x	major allergen Cor a 1	238	Cor a 1.0301	uniprot:Q39454	298	3,00E-82	96
TRINITY_DN8608_c1_g1_i1_4	x		AF323974_1 major allergen variant Cor a 1.0403	241	Cor a 1.0403	uniprot:Q9FPK3	327	5,00E-91	99
TRINITY_DN9775_c0_g1_i1_1	x		hypothetical protein MANES_09G127700	10102	Vig r 6.0101	uniprot:Q9ZWP8	61	9,00E-11	28
TRINITY_DN3503_c0_g1_i2_1	x	x	Bet v 4	3056	Aln g 4.0101	uniprot:O81701	130	4,00E-32	78
TRINITY_DN17339_c0_g1_i1_3	x		Bet v 4	356	Fra e 3	uniprot:W8PPL7	77	3,00E-16	87
TRINITY_DN13307_c0_g1_i1_1	x	x	pollen profilin variant 7	244	Cor a 2	uniprot:A4KA45	275	1,00E-75	100
TRINITY_DN2899_c0_g1_i1_1	x	x	pollen profilin variant 3	248	Cor a 2	uniprot:A4KA41	248	2,00E-67	97
TRINITY_DN6901_c0_g1_i1_3	x	x	AF327622_1 minor allergen hazelnut profilin	3218	Cor a 2.0102	uniprot:Q9AXH4	267	4,00E-73	98
TRINITY_DN10821_c0_g1_i5_2	x	x	isoflavone reductase	10995	Cor a 6.0101	uniprot:A0A0U1VZC8	623	1,00E-180	99
TRINITY_DN11225_c0_g1_i1_3	x	x	isoflavone reductase-like protein	133	Bet v 6.0102	uniprot:Q9FUW6	444	1,00E-126	69
TRINITY_DN2745_c0_g1_i1_1		x	bifunctional pinoresinol-lariciresinol reductase-like	9234	Fra e 12	uniprot:E6Y2L7	167	5,00E-43	46
TRINITY_DN18817_c0_g1_i1_6		x	eugenol synthase 1-like	3460	Pyr c 5.0101	uniprot:O81355	73,2	4,00E-15	47
TRINITY_DN6201_c0_g1_i1_1	x	x	hypothetical protein PRUPE_4G269100	3105	Art v 5.0101	uniprot:Q2KM81	140	1,00E-34	48
TRINITY_DN10616_c0_g1_i2_2	x	x	probable calcium-binding protein CML27	3389	Ole e 8.0101	uniprot:Q9M7R0	173	1,00E-44	57
TRINITY_DN3503_c0_g1_i1_2	x	x	Bet v 4	3056	Aln g 4.0101	uniprot:O81701	120	3,00E-29	75
TRINITY_DN8849_c0_g2_i3_2	x		uncharacterized protein LOC103418606	2861	Bla g 8	uniprot:G9JWG6	30,8	0,09	33
TRINITY_DN21254_c0_g1_i1_2		x	calmodulin-like protein 3	3066	Amb a 10.0101	uniprot:Q2KN25	110	6,00E-26	41

Protein IDs	found in soluble proteome	found in total proteome	name [blastx hit 1]	allergome code	Description	Code	Score	e-value	%Identity
TRINITY_DN13992_c5_g1::TRINITY_DN13992_c5_g1_i1::g.31138::m.31138	x		Bet v 1 l	1255	Bet p 1	uniprot:Q9AYS4	154	2,00E-39	77
TRINITY_DN19395_c0_g1::TRINITY_DN19395_c0_g1_i9::g.117248::m.117248	x	x	2122374C allergen Bet v 1-Sc3	103	Bet v 1.0301	uniprot:Q39415	261	1,00E-71	100
TRINITY_DN14513_c0_g3::TRINITY_DN14513_c0_g3_i9::g.38189::m.38189	x		major allergen Pru ar 1-like	10702	Vit v 8	uniprot:A5C113	206	1,00E-54	61
TRINITY_DN11247_c0_g1::TRINITY_DN11247_c0_g1_i5::g.6785::m.6785	x	x	AF282850_1 allergenic isoflavone reductase-like protein Bet v 6.0102	133	Bet v 6.0102	uniprot:Q9FUW6	451	1,00E-128	90
TRINITY_DN19790_c2_g2::TRINITY_DN19790_c2_g2_i6::g.123649::m.123649	x		isoflavone reductase homolog Bet v 6.0101, partial	133	Bet v 6.0102	uniprot:Q9FUW6	155	8,00E-40	97
TRINITY_DN19790_c2_g2::TRINITY_DN19790_c2_g2_i1::g.123647::m.123647	x	x	isoflavone reductase homolog Bet v 6.0101, partial	133	Bet v 6.0102	uniprot:Q9FUW6	150	2,00E-38	92
TRINITY_DN14939_c1_g3::TRINITY_DN14939_c1_g3_i3::g.44686::m.44686	x	x	probable pinoresinol-lariciresinol reductase 3 isoform X1	133	Bet v 6.0102	uniprot:Q9FUW6	340	1,00E-94	54
TRINITY_DN16132_c1_g2::TRINITY_DN16132_c1_g2_i1::g.62633::m.62633	x	x	calmodulin-like	3105	Art v 5.0101	uniprot:Q2KM81	147	4,00E-37	48
TRINITY_DN11191_c0_g1::TRINITY_DN11191_c0_g1_i2::g.6575::m.6575	x	x	uncharacterized protein LOC103418606	2861	Bla g 8	uniprot:G9JWG6	31,2	0,037	34
TRINITY_DN18637_c1_g1::TRINITY_DN18637_c1_g1_i7::g.103721::m.103721		x	serine/threonine protein phosphatase 2A regulatory subunit B''beta-like	797	Ani s Troponin	uniprot:Q9U3U5	32,7	0,061	26
TRINITY_DN18492_c0_g1::TRINITY_DN18492_c0_g1_i14::g.101403::m.101403	x		uncharacterized protein LOC108992543	3066	Amb a 10.0101	uniprot:Q2KN25	30,8	0,078	44
TRINITY_DN13179_c1_g1::TRINITY_DN13179_c1_g1_i6::g.20799::m.20799	x		hypothetical protein MANES_13G124900	3066	Amb a 10.0101	uniprot:Q2KN25	99,4	1,00E-22	34
TRINITY_DN47853_c0_g1::TRINITY_DN47853_c0_g1_i1::g.132570::m.132570	x		hypothetical protein LR48_Vigan10g199000	12218	Der f 39.0101	uniprot:A0A411P9C3	124	2,00E-30	45
TRINITY_DN13033_c2_g1::TRINITY_DN13033_c2_g1_i6::g.18937::m.18937	x	x	profilin	1607	Jug r 7	uniprot:A0A2I4GHA9	174	2,00E-45	90
TRINITY_DN11357_c0_g2::TRINITY_DN11357_c0_g2_i1::g.7096::m.7096	x	x	profilin-1	1607	Jug r 7	uniprot:A0A2I4GHA9	253	3,00E-69	93

Protein IDs	found in soluble proteome	found in total proteome	name [blastx hit 1]	allergome code	Description	Code	Score	e-value	%Identity
ARUBRA_DN3160_c0_g1_i1_1	x	x	Aln g I	3055	Aln g 1.0101	uniprot:P38948	298	3,00E-82	90
ARHOMBI_DN1709_c0_g2_i1_6	x		MLP-like protein 423	10131	Pan g 1	uniprot:E9M220	84,3	7,00E-18	36
ARUBRA_DN4657_c0_g1_i1_6	x		MLP-like protein 328	6135	Act d 11.0101	uniprot:P85524	99,4	2,00E-22	37
ARUBRA_DN3195_c0_g1_i1_6	x	x	isoflavone reductase	10995	Cor a 6.0101	uniprot:A0A0U1VZC8	585	1,00E-168	92
ARHOMBI_DN24609_c0_g1_i1_6	x		hypothetical protein MANES_17G074700	132	Bet v 6.0101	uniprot:O65002	193	5,00E-51	74
ARHOMBI_DN5174_c0_g1_i1_1	x		isoflavone reductase-like protein	3460	Pyr c 5.0101	uniprot:O81355	259	9,00E-71	69
ARHOMBI_DN5174_c0_g2_i1_1	x		isoflavone reductase-like protein	3460	Pyr c 5.0101	uniprot:O81355	110	2,00E-26	71
ARUBRA_DN23118_c0_g1_i1_1	x	x	hypothetical protein MANES_16G107500	244	Cor a 2	uniprot:A4KA45	269	1,00E-73	96
ARHOMBI_DN4484_c0_g1_i1_2	x	x	profilin-3	12076	Jug r 7.0101	uniprot:A0A2I4DNN6	258	2,00E-70	93
ARUBRA_DN4080_c0_g1_i1_6	x		profilin-1	1607	Jug r 7	uniprot:A0A2I4GR27	132	1,00E-32	98

Supplementary Table S10: Identified peptidases in Betula pollen

Protein IDs	Pfam accession	Pfam family name	Merops accession	Merops family	Merops peptidase ID	Merops subfamily
TRINITY_DN19058_c2_g1::TRINITY_DN19058_c2_g1_i7::g.111114::m.111114	PF14543.5	TAXi_N	MER0372282	CDR1 peptidase	A01.069	A01B
TRINITY_DN13851_c1_g1::TRINITY_DN13851_c1_g1_i8::g.29304::m.29304	PF00026.22	Asp	MER0680933	At1g62290	A01.A02	A01A
TRINITY_DN19078_c0_g3::TRINITY_DN19078_c0_g3_i6::g.111344::m.111344	PF05184.14	SapB_1	MER0412334	At1g62290	A01.A02	A01A
TRINITY_DN15082_c2_g5::TRINITY_DN15082_c2_g5_i1::g.46709::m.46709	PF14543.5	TAXi_N	MER0106023	At3g12700	A01.A30	A01B
TRINITY_DN17999_c1_g1::TRINITY_DN17999_c1_g1_i8::g.91779::m.91779	PF14541.5	TAXi_C	MER0650368	At5g43100	A01.A59	A01B
TRINITY_DN17198_c0_g1::TRINITY_DN17198_c0_g1_i4::g.79878::m.79878	PF14543.5	TAXi_N	MER0155847	subfamily A1B non-peptidase homologues	A01.UNB	A01B
TRINITY_DN13851_c1_g2::TRINITY_DN13851_c1_g2_i2::g.29292::m.29292	PF00026.22	Asp	MER1131201	subfamily A1A unassigned peptidases	A01.UPA	A01A
TRINITY_DN15036_c1_g1::TRINITY_DN15036_c1_g1_i9::g.46235::m.46235	PF00188.25	CAP	MER0228949	subfamily A1A unassigned peptidases	A01.UPA	A01A
TRINITY_DN19846_c6_g2::TRINITY_DN19846_c6_g2_i1::g.124494::m.124494	PF14543.5	TAXi_N	MER0250417	subfamily A1A unassigned peptidases	A01.UPA	A01A
TRINITY_DN19335_c0_g3::TRINITY_DN19335_c0_g3_i4::g.116290::m.116290	PF01095.18	Pectinesterase	MER0572141	family A2 unassigned peptidases	A02.UPW	A02X
TRINITY_DN19962_c5_g2::TRINITY_DN19962_c5_g2_i2::g.126940::m.126940	PF01095.18	Pectinesterase	MER0570148	family A2 unassigned peptidases	A02.UPW	A02X
TRINITY_DN13852_c0_g1::TRINITY_DN13852_c0_g1_i7::g.28442::m.28442	PF01507.18	PAPS_reduct	MER0639549	subfamily A11A unassigned peptidases	A11.UPA	A11A
TRINITY_DN19187_c0_g2::TRINITY_DN19187_c0_g2_i3::g.113547::m.113547	PF00627.30	UBA	MER0628276	subfamily A28A unassigned peptidases	A28.UPA	A28A
TRINITY_DN19587_c1_g2::TRINITY_DN19587_c1_g2_i1::g.120316::m.120316	PF00240.22	ubiquitin	MER0242394	subfamily A28A unassigned peptidases	A28.UPA	A28A
TRINITY_DN13666_c1_g1::TRINITY_DN13666_c1_g1_i1::g.26956::m.26956	PF08263.11	LRRNT_2	MER1360781	family A31 non-peptidase homologues	A31.UNW	A31
TRINITY_DN14553_c3_g1::TRINITY_DN14553_c3_g1_i5::g.38708::m.38708	PF12819.6	Malectin_like	MER1360781	family A31 non-peptidase homologues	A31.UNW	A31
TRINITY_DN14761_c1_g4::TRINITY_DN14761_c1_g4_i4::g.41839::m.41839	PF00069.24	Pkinase	MER1360781	family A31 non-peptidase homologues	A31.UNW	A31
TRINITY_DN15139_c1_g2::TRINITY_DN15139_c1_g2_i1::g.47376::m.47376	PF00139.18	Lectin_legB	MER1360781	family A31 non-peptidase homologues	A31.UNW	A31
TRINITY_DN16295_c1_g2::TRINITY_DN16295_c1_g2_i1::g.65228::m.65228	PF00069.24	Pkinase	MER1360781	family A31 non-peptidase homologues	A31.UNW	A31

TRINITY_DN16834_c1_g1::TRINITY_DN16834_c1_g1_i1::g.74148::m.74148	PF00069.24	Pkinase	MER1360781	family A31 non-peptidase homologues	A31.UNW	A31
TRINITY_DN17086_c3_g1::TRINITY_DN17086_c3_g1_i14::g.77558::m.77558	PF07714.16	Pkinase_Tyr	MER1360781	family A31 non-peptidase homologues	A31.UNW	A31
TRINITY_DN17490_c0_g3::TRINITY_DN17490_c0_g3_i5::g.84477::m.84477	PF00069.24	Pkinase	MER1360781	family A31 non-peptidase homologues	A31.UNW	A31
TRINITY_DN17718_c6_g2::TRINITY_DN17718_c6_g2_i4::g.88774::m.88774	PF14381.5	EDR1	MER1360781	family A31 non-peptidase homologues	A31.UNW	A31
TRINITY_DN18755_c3_g1::TRINITY_DN18755_c3_g1_i1::g.105920::m.105920	PF07714.16	Pkinase_Tyr	MER1360781	family A31 non-peptidase homologues	A31.UNW	A31
TRINITY_DN18771_c1_g1::TRINITY_DN18771_c1_g1_i3::g.106137::m.106137	PF00069.24	Pkinase	MER1360781	family A31 non-peptidase homologues	A31.UNW	A31
TRINITY_DN18792_c0_g2::TRINITY_DN18792_c0_g2_i6::g.106589::m.106589	PF00069.24	Pkinase	MER1360781	family A31 non-peptidase homologues	A31.UNW	A31
TRINITY_DN19006_c2_g1::TRINITY_DN19006_c2_g1_i11::g.110719::m.110719	PF00069.24	Pkinase	MER1360781	family A31 non-peptidase homologues	A31.UNW	A31
TRINITY_DN19032_c3_g1::TRINITY_DN19032_c3_g1_i17::g.110826::m.110826	PF00069.24	Pkinase	MER1360781	family A31 non-peptidase homologues	A31.UNW	A31
TRINITY_DN19212_c0_g1::TRINITY_DN19212_c0_g1_i8::g.114108::m.114108	PF07714.16	Pkinase_Tyr	MER1360781	family A31 non-peptidase homologues	A31.UNW	A31
TRINITY_DN19251_c1_g2::TRINITY_DN19251_c1_g2_i24::g.114984::m.114984	PF00069.24	Pkinase	MER1360781	family A31 non-peptidase homologues	A31.UNW	A31
TRINITY_DN19939_c3_g1::TRINITY_DN19939_c3_g1_i7::g.125684::m.125684	PF00069.24	Pkinase	MER1360781	family A31 non-peptidase homologues	A31.UNW	A31
TRINITY_DN18320_c3_g1::TRINITY_DN18320_c3_g1_i1::g.98804::m.98804	PF00112.22	Peptidase_C1	MER0640046	cathepsin B, plant form	C01.049	C01A
TRINITY_DN10140_c0_g1::TRINITY_DN10140_c0_g1_i2::g.4317::m.4317	PF00112.22	Peptidase_C1	MER1161383	subfamily C1A unassigned peptidases	C01.UPA	C01A
TRINITY_DN13376_c2_g2::TRINITY_DN13376_c2_g2_i3::g.22986::m.22986	PF00112.22	Peptidase_C1	MER1161143	subfamily C1A unassigned peptidases	C01.UPA	C01A
TRINITY_DN15205_c1_g1::TRINITY_DN15205_c1_g1_i3::g.48499::m.48499	PF00112.22	Peptidase_C1	MER1160913	subfamily C1A unassigned peptidases	C01.UPA	C01A
TRINITY_DN15924_c1_g1::TRINITY_DN15924_c1_g1_i2::g.59050::m.59050	PF00112.22	Peptidase_C1	MER1161707	subfamily C1A unassigned peptidases	C01.UPA	C01A
TRINITY_DN15963_c2_g1::TRINITY_DN15963_c2_g1_i4::g.59609::m.59609	PF00112.22	Peptidase_C1	MER1164780	subfamily C1A unassigned peptidases	C01.UPA	C01A
TRINITY_DN18149_c0_g1::TRINITY_DN18149_c0_g1_i3::g.95908::m.95908	PF00112.22	Peptidase_C1	MER1164799	subfamily C1A unassigned peptidases	C01.UPA	C01A
TRINITY_DN18157_c0_g1::TRINITY_DN18157_c0_g1_i6::g.96079::m.96079	PF00112.22	Peptidase_C1	MER1161753	subfamily C1A unassigned peptidases	C01.UPA	C01A

TRINITY_DN18947_c6_g2::TRINITY_DN18947_c6_g2_i2::g.109306::m.109306	PF00112.22	Peptidase_C1	MER1161493	subfamily C1A unassigned peptidases	C01.UPA	C01A
TRINITY_DN18947_c6_g5::TRINITY_DN18947_c6_g5_i2::g.109307::m.109307	PF00112.22	Peptidase_C1	MER1162079	subfamily C1A unassigned peptidases	C01.UPA	C01A
TRINITY_DN31964_c0_g1::TRINITY_DN31964_c0_g1_i1::g.130316::m.130316	PF00112.22	Peptidase_C1	MER1161346	subfamily C1A unassigned peptidases	C01.UPA	C01A
TRINITY_DN19396_c1_g1::TRINITY_DN19396_c1_g1_i8::g.116313::m.116313	PF00664.22	ABC_membrane	MER1363071	subfamily C2A non-peptidase homologues	C02.UNA	C02A
TRINITY_DN19396_c1_g2::TRINITY_DN19396_c1_g2_i11::g.116356::m.116356	PF00664.22	ABC_membrane	MER1363071	subfamily C2A non-peptidase homologues	C02.UNA	C02A
TRINITY_DN16618_c2_g1::TRINITY_DN16618_c2_g1_i4::g.70494::m.70494	PF04424.12	MINDY_DUB	MER0934028	FAM63B g.p.	C115.002	C115
TRINITY_DN13542_c0_g1::TRINITY_DN13542_c0_g1_i7::g.24740::m.24740	PF01088.20	Peptidase_C12	MER0630401	ubiquitinyl hydrolase-L5	C12.005	C12
TRINITY_DN13485_c2_g2::TRINITY_DN13485_c2_g2_i2::g.24426::m.24426	PF01088.20	Peptidase_C12	MER1170789	family C12 unassigned peptidases	C12.UPW	C12
TRINITY_DN14025_c2_g1::TRINITY_DN14025_c2_g1_i8::g.31522::m.31522	PF13898.5	DUF4205	MER1253126		C121.UNW	C121
TRINITY_DN12352_c0_g2::TRINITY_DN12352_c0_g2_i4::g.12096::m.12096	PF01650.17	Peptidase_C13	MER1173188	family C13 unassigned peptidases	C13.UPW	C13
TRINITY_DN19270_c0_g2::TRINITY_DN19270_c0_g2_i4::g.115031::m.115031	PF00656.21	Peptidase_C14	MER0611140	subfamily C14B unassigned peptidases	C14.UPB	C14B
TRINITY_DN11950_c0_g1::TRINITY_DN11950_c0_g1_i3::g.9633::m.9633	PF00443.28	UCH	MER0546412	Ubp3 ubiquitin peptidase	C19.008	C19
TRINITY_DN12454_c0_g1::TRINITY_DN12454_c0_g1_i1::g.12984::m.12984	PF00240.22	ubiquitin	MER0109705	UBP6 peptidase	C19.094	C19
TRINITY_DN16925_c0_g1::TRINITY_DN16925_c0_g1_i1::g.75769::m.75769	PF00443.28	UCH	MER0430051	At4g10590	C19.A03	C19
TRINITY_DN11687_c0_g1::TRINITY_DN11687_c0_g1_i2::g.8407::m.8407	PF00627.30	UBA	MER0552051	family C19 non-peptidase homologues	C19.UNW	C19
TRINITY_DN13724_c5_g4::TRINITY_DN13724_c5_g4_i1::g.27589::m.27589	PF00917.25	MATH	MER0550185	family C19 non-peptidase homologues	C19.UNW	C19
TRINITY_DN17921_c3_g2::TRINITY_DN17921_c3_g2_i1::g.92117::m.92117	PF06012.11	DUF908	MER0588271	family C19 non-peptidase homologues	C19.UNW	C19
TRINITY_DN17957_c0_g1::TRINITY_DN17957_c0_g1_i11::g.92631::m.92631	PF06012.11	DUF908	MER0588271	family C19 non-peptidase homologues	C19.UNW	C19
TRINITY_DN13524_c0_g1::TRINITY_DN13524_c0_g1_i8::g.24870::m.24870	PF00917.25	MATH	MER0712608	family C19 unassigned peptidases	C19.UPW	C19
TRINITY_DN18543_c1_g3::TRINITY_DN18543_c1_g3_i1::g.101857::m.101857	PF02148.18	zf-UBP	MER0546657	family C19 unassigned peptidases	C19.UPW	C19

TRINITY_DN19613_c2_g2::TRINITY_DN19613_c2_g2_i3::g.120856::m.120856	PF12436.7	USP7_ICP0_bdg	MER0715954	family C19 unassigned peptidases	C19.UPW	C19
TRINITY_DN10578_c0_g1::TRINITY_DN10578_c0_g1_i5::g.5050::m.5050	PF00270.28	DEAD	MER0295850	family C26 non-peptidase homologues	C26.UNW	C26
TRINITY_DN15579_c1_g3::TRINITY_DN15579_c1_g3_i1::g.54029::m.54029	PF00270.28	DEAD	MER0295850	family C26 non-peptidase homologues	C26.UNW	C26
TRINITY_DN18349_c3_g1::TRINITY_DN18349_c3_g1_i4::g.99210::m.99210	PF00270.28	DEAD	MER0295850	family C26 non-peptidase homologues	C26.UNW	C26
TRINITY_DN18704_c0_g1::TRINITY_DN18704_c0_g1_i1::g.104889::m.104889	PF00270.28	DEAD	MER0295850	family C26 non-peptidase homologues	C26.UNW	C26
TRINITY_DN19730_c4_g2::TRINITY_DN19730_c4_g2_i8::g.122947::m.122947	PF00270.28	DEAD	MER0295850	family C26 non-peptidase homologues	C26.UNW	C26
TRINITY_DN11338_c0_g1::TRINITY_DN11338_c0_g1_i3::g.7037::m.7037	PF00988.21	CPSase_sm_chain	MER0584525	family C26 unassigned peptidases	C26.UPW	C26
TRINITY_DN15762_c0_g1::TRINITY_DN15762_c0_g1_i1::g.56697::m.56697	PF02769.21	AIRS_C	MER0087959	family C26 unassigned peptidases	C26.UPW	C26
TRINITY_DN16789_c2_g5::TRINITY_DN16789_c2_g5_i1::g.73225::m.73225	PF00117.27	GATase	MER0571210	family C26 unassigned peptidases	C26.UPW	C26
TRINITY_DN18497_c0_g1::TRINITY_DN18497_c0_g1_i7::g.101435::m.101435	PF01174.18	SNO	MER0562247	family C26 unassigned peptidases	C26.UPW	C26
TRINITY_DN17699_c0_g2::TRINITY_DN17699_c0_g2_i2::g.88416::m.88416	PF00310.20	GATase_2	MER0511740	glutamate synthase	C44.003	C44
TRINITY_DN13460_c3_g2::TRINITY_DN13460_c3_g2_i3::g.24327::m.24327	PF13537.5	GATase_7	MER0457154	family C44 non-peptidase homologues	C44.UNW	C44
TRINITY_DN17602_c0_g3::TRINITY_DN17602_c0_g3_i7::g.86972::m.86972	PF01380.21	SIS	MER0411888	family C44 non-peptidase homologues	C44.UNW	C44
TRINITY_DN10714_c0_g1::TRINITY_DN10714_c0_g1_i7::g.5396::m.5396	PF13537.5	GATase_7	MER0650964	family C44 unassigned peptidases	C44.UPW	C44
TRINITY_DN13284_c1_g1::TRINITY_DN13284_c1_g1_i7::g.21970::m.21970	PF12481.7	DUF3700	MER0614899	family C44 unassigned peptidases	C44.UPW	C44
TRINITY_DN13734_c2_g1::TRINITY_DN13734_c2_g1_i1::g.27715::m.27715	PF12481.7	DUF3700	MER0571885	family C44 unassigned peptidases	C44.UPW	C44
TRINITY_DN15836_c2_g1::TRINITY_DN15836_c2_g1_i8::g.57209::m.57209	PF13537.5	GATase_7	MER0037116	family C44 unassigned peptidases	C44.UPW	C44
TRINITY_DN19694_c1_g1::TRINITY_DN19694_c1_g1_i14::g.120695::m.120695	PF00310.20	GATase_2	MER0502151	family C44 unassigned peptidases	C44.UPW	C44
TRINITY_DN18713_c3_g1::TRINITY_DN18713_c3_g1_i2::g.105054::m.105054	PF01965.23	DJ-1_PfpI	MER0571867	family C56 non-peptidase homologues	C56.UNW	C56
TRINITY_DN18713_c3_g1::TRINITY_DN18713_c3_g1_i8::g.105061::m.105061	PF01965.23	DJ-1_PfpI	MER0589129	family C56 non-peptidase homologues	C56.UNW	C56

TRINITY_DN13841_c4_g1::TRINITY_DN13841_c4_g1_i7::g.28424::m.28424	PF01965.23	DJ-1_PfpI	MER0891420	family C56 unassigned peptidases	C56.UPW	C56
TRINITY_DN17135_c0_g1::TRINITY_DN17135_c0_g1_i6::g.79192::m.79192	PF07910.12	Peptidase_C78	MER0737213	At3g48380 protein	C78.A02	C78A
TRINITY_DN20022_c2_g5::TRINITY_DN20022_c2_g5_i1::g.128013::m.128013	PF02338.18	OTU	MER1128346	subfamily C85A unassigned peptidases	C85.UPA	C85A
TRINITY_DN14972_c1_g2::TRINITY_DN14972_c1_g2_i4::g.44982::m.44982	PF02338.18	OTU	MER0744567	subfamily C85B unassigned peptidases	C85.UPB	C85B
TRINITY_DN16212_c0_g2::TRINITY_DN16212_c0_g2_i5::g.63967::m.63967	PF05903.13	Peptidase_C97	MER0660526	family C97 unassigned peptidases	C97.UPW	C97
TRINITY_DN18196_c4_g4::TRINITY_DN18196_c4_g4_i1::g.96720::m.96720	PF00412.21	LIM	MER0689923	family I2 unassigned peptidase inhibitors	I02.UPW	I02
TRINITY_DN11558_c0_g1::TRINITY_DN11558_c0_g1_i1::g.7858::m.7858	PF00197.17	Kunitz_legume	MER0453920	inhibitor MtTi2	I03.030	I03A
TRINITY_DN14021_c1_g2::TRINITY_DN14021_c1_g2_i5::g.31431::m.31431	PF00079.19	Serpin	MER0510912	AtSerpin1	I04.087	I04
TRINITY_DN17174_c0_g2::TRINITY_DN17174_c0_g2_i1::g.79619::m.79619	PF01781.17	Ribosomal_L38e	MER0621953	family I4 unassigned peptidase inhibitors	I04.UPW	I04
TRINITY_DN17835_c3_g1::TRINITY_DN17835_c3_g1_i1::g.90619::m.90619	PF00063.20	Myosin_head	MER1118174	family I4 unassigned peptidase inhibitors	I04.UPW	I04
TRINITY_DN18255_c1_g1::TRINITY_DN18255_c1_g1_i6::g.97743::m.97743	PF02736.18	Myosin_N	MER1118174	family I4 unassigned peptidase inhibitors	I04.UPW	I04
TRINITY_DN19302_c0_g2::TRINITY_DN19302_c0_g2_i5::g.115749::m.115749	PF00063.20	Myosin_head	MER1118174	family I4 unassigned peptidase inhibitors	I04.UPW	I04
TRINITY_DN13204_c1_g1::TRINITY_DN13204_c1_g1_i4::g.21099::m.21099	PF05922.15	Inhibitor_I9	MER0628798	family I9 unassigned peptidase inhibitors	I09.UPW	I09
TRINITY_DN12914_c1_g1::TRINITY_DN12914_c1_g1_i4::g.17252::m.17252	PF00403.25	HMA	MER0592272	family I13 unassigned peptidase inhibitors	I13.UPW	I13
TRINITY_DN17501_c0_g2::TRINITY_DN17501_c0_g2_i6::g.84659::m.84659	PF02225.21	PA	MER0642455	family I15 unassigned peptidase inhibitors	I15.UPW	I15
TRINITY_DN12993_c1_g1::TRINITY_DN12993_c1_g1_i9::g.18389::m.18389	PF16845.4	SQAPI	MER0628337	phytocystatin	I25.014	I25B
TRINITY_DN13289_c1_g2::TRINITY_DN13289_c1_g2_i4::g.22093::m.22093			MER0046563	phytocystatin	I25.014	I25B
TRINITY_DN13585_c0_g1::TRINITY_DN13585_c0_g1_i3::g.25706::m.25706			MER0680968	subfamily I25A unassigned peptidase inhibitors	I25.UPA	I25A
TRINITY_DN15507_c1_g1::TRINITY_DN15507_c1_g1_i1::g.53015::m.53015	PF16845.4	SQAPI	MER0622052	subfamily I25B unassigned peptidase inhibitors	I25.UPB	I25B
TRINITY_DN17227_c2_g4::TRINITY_DN17227_c2_g4_i1::g.80549::m.80549	PF01565.22	FAD_binding_4	MER0659912	family I29 unassigned peptidase inhibitors	I29.UPW	I29

TRINITY_DN19911_c7_g2::TRINITY_DN19911_c7_g2_i3::g.126024::m.126024	PF08031.11	BBE	MER0659912	family I29 unassigned peptidase inhibitors	I29.UPW	I29
TRINITY_DN11277_c0_g1::TRINITY_DN11277_c0_g1_i2::g.6842::m.6842			MER0583275	family I34 unassigned peptidase inhibitors	I34.UPW	I34
TRINITY_DN11854_c0_g1::TRINITY_DN11854_c0_g1_i1::g.9190::m.9190	PF00085.19	Thioredoxin	MER0546787	family I39 unassigned peptidase inhibitors	I39.UPW	I39
TRINITY_DN11049_c0_g1::TRINITY_DN11049_c0_g1_i1::g.6211::m.6211	PF01161.19	PBP	MER0785675	family I51 unassigned peptidase inhibitors	I51.UPW	I51
TRINITY_DN17130_c2_g2::TRINITY_DN17130_c2_g2_i6::g.79154::m.79154			MER0571023	family I71 unassigned peptidase inhibitors	I71.UPW	I71
TRINITY_DN17913_c4_g1::TRINITY_DN17913_c4_g1_i1::g.91856::m.91856	PF03009.16	GDPD	MER0604943	family I71 unassigned peptidase inhibitors	I71.UPW	I71
TRINITY_DN12832_c2_g6::TRINITY_DN12832_c2_g6_i1::g.16307::m.16307	PF01145.24	Band_7	MER0797839	family I87 unassigned peptidase inhibitors	I87.UPW	I87
TRINITY_DN12832_c2_g7::TRINITY_DN12832_c2_g7_i2::g.16314::m.16314	PF01145.24	Band_7	MER0797839	family I87 unassigned peptidase inhibitors	I87.UPW	I87
TRINITY_DN12853_c0_g1::TRINITY_DN12853_c0_g1_i3::g.16604::m.16604	PF01145.24	Band_7	MER0801850	family I87 unassigned peptidase inhibitors	I87.UPW	I87
TRINITY_DN14376_c2_g1::TRINITY_DN14376_c2_g1_i4::g.36173::m.36173			MER0571692	family I87 unassigned peptidase inhibitors	I87.UPW	I87
TRINITY_DN14376_c2_g2::TRINITY_DN14376_c2_g2_i8::g.36166::m.36166	PF01145.24	Band_7	MER0577440	family I87 unassigned peptidase inhibitors	I87.UPW	I87
TRINITY_DN14376_c2_g4::TRINITY_DN14376_c2_g4_i7::g.36164::m.36164	PF01145.24	Band_7	MER0637058	family I87 unassigned peptidase inhibitors	I87.UPW	I87
TRINITY_DN14711_c0_g2::TRINITY_DN14711_c0_g2_i2::g.40961::m.40961	PF01145.24	Band_7	MER0517269	family I87 unassigned peptidase inhibitors	I87.UPW	I87
TRINITY_DN14711_c0_g4::TRINITY_DN14711_c0_g4_i1::g.40962::m.40962	PF01145.24	Band_7	MER0517269	family I87 unassigned peptidase inhibitors	I87.UPW	I87
TRINITY_DN17996_c1_g1::TRINITY_DN17996_c1_g1_i2::g.93353::m.93353			MER0680924	family I87 unassigned peptidase inhibitors	I87.UPW	I87
TRINITY_DN10864_c0_g1::TRINITY_DN10864_c0_g1_i1::g.5678::m.5678	PF17177.3	PPR_long	MER0680915	family I93 unassigned peptidase inhibitors	I93.UPW	I93
TRINITY_DN11076_c0_g1::TRINITY_DN11076_c0_g1_i2::g.6263::m.6263	PF13812.5	PPR_3	MER0680915	family I93 unassigned peptidase inhibitors	I93.UPW	I93
TRINITY_DN13889_c0_g1::TRINITY_DN13889_c0_g1_i2::g.29853::m.29853	PF13812.5	PPR_3	MER0680915	family I93 unassigned peptidase inhibitors	I93.UPW	I93
TRINITY_DN15085_c0_g2::TRINITY_DN15085_c0_g2_i3::g.46604::m.46604			MER0134791	alanyl aminopeptidase	M01.005	M01
TRINITY_DN12654_c0_g3::TRINITY_DN12654_c0_g3_i5::g.14722::m.14722	PF01433.19	Peptidase_M1	MER0336326	family M1 unassigned peptidases	M01.UPW	M01

TRINITY_DN16376_c0_g2::TRINITY_DN16376_c0_g2_i2::g.66583::m.66583	PF01433.19	Peptidase_M1	MER0412570	family M1 unassigned peptidases	M01.UPW	M01
TRINITY_DN18531_c0_g1::TRINITY_DN18531_c0_g1_i4::g.102214::m.102214	PF01433.19	Peptidase_M1	MER0171524	family M1 unassigned peptidases	M01.UPW	M01
TRINITY_DN19263_c0_g1::TRINITY_DN19263_c0_g1_i6::g.114813::m.114813	PF01432.19	Peptidase_M3	MER0546417	oligopeptidase A	M03.004	M03A
TRINITY_DN19263_c0_g3::TRINITY_DN19263_c0_g3_i4::g.114811::m.114811	PF01432.19	Peptidase_M3	MER0511610	oligopeptidase A	M03.004	M03A
TRINITY_DN19263_c0_g1::TRINITY_DN19263_c0_g1_i2::g.114802::m.114802	PF01432.19	Peptidase_M3	MER0818462	subfamily M3A unassigned peptidases	M03.UPA	M03A
TRINITY_DN19263_c0_g3::TRINITY_DN19263_c0_g3_i3::g.114810::m.114810	PF01432.19	Peptidase_M3	MER0820311	subfamily M3A unassigned peptidases	M03.UPA	M03A
TRINITY_DN18434_c0_g1::TRINITY_DN18434_c0_g1_i17::g.100395::m.100395	PF08324.10	PUL	MER0273962	griselysin	M04.017	M04
TRINITY_DN13918_c1_g1::TRINITY_DN13918_c1_g1_i8::g.30345::m.30345	PF01851.21	PC_rep	MER1206231	subfamily M10A unassigned peptidases	M10.UPA	M10A
TRINITY_DN13739_c0_g1::TRINITY_DN13739_c0_g1_i1::g.27726::m.27726	PF12796.6	Ank_2	MER0053345	Kell blood-group peptidase	M13.090	M13
TRINITY_DN16222_c1_g2::TRINITY_DN16222_c1_g2_i6::g.64132::m.64132	PF00069.24	Pkinase	MER1154309	subfamily M14B non-peptidase homologues	M14.UNB	M14B
TRINITY_DN18171_c1_g1::TRINITY_DN18171_c1_g1_i5::g.96291::m.96291	PF00069.24	Pkinase	MER1154309	subfamily M14B non-peptidase homologues	M14.UNB	M14B
TRINITY_DN18472_c4_g2::TRINITY_DN18472_c4_g2_i2::g.100983::m.100983	PF00069.24	Pkinase	MER1154309	subfamily M14B non-peptidase homologues	M14.UNB	M14B
TRINITY_DN18707_c2_g1::TRINITY_DN18707_c2_g1_i4::g.104948::m.104948	PF13620.5	CarboxypepD_reg	MER0469406	subfamily M14B non-peptidase homologues	M14.UNB	M14B
TRINITY_DN11646_c0_g1::TRINITY_DN11646_c0_g1_i1::g.8053::m.8053			MER0586073	subfamily M16A non-peptidase homologues	M16.UNA	M16A
TRINITY_DN19568_c0_g1::TRINITY_DN19568_c0_g1_i11::g.119880::m.119880	PF00675.19	Peptidase_M16	MER0511546	subfamily M16A non-peptidase homologues	M16.UNA	M16A
TRINITY_DN13650_c9_g1::TRINITY_DN13650_c9_g1_i8::g.26115::m.26115	PF05193.20	Peptidase_M16_C	MER0160376	subfamily M16B non-peptidase homologues	M16.UNB	M16B
TRINITY_DN15983_c2_g1::TRINITY_DN15983_c2_g1_i5::g.59899::m.59899	PF00675.19	Peptidase_M16	MER0923642	subfamily M16B non-peptidase homologues	M16.UNB	M16B
TRINITY_DN16361_c1_g1::TRINITY_DN16361_c1_g1_i5::g.66288::m.66288	PF00675.19	Peptidase_M16	MER0922066	subfamily M16B non-peptidase homologues	M16.UNB	M16B
TRINITY_DN17204_c0_g1::TRINITY_DN17204_c0_g1_i8::g.80281::m.80281	PF00675.19	Peptidase_M16	MER0923033	subfamily M16B unassigned peptidases	M16.UPB	M16B
TRINITY_DN16381_c2_g1::TRINITY_DN16381_c2_g1_i3::g.66693::m.66693	PF05193.20	Peptidase_M16_C	MER0504856	subfamily M16C unassigned peptidases	M16.UPC	M16C

TRINITY_DN19485_c0_g1::TRINITY_DN19485_c0_g1_i9::g.118686::m.118686	PF16187.4	Peptidase_M16_M	MER0628558	subfamily M16C unassigned peptidases	M16.UPC	M16C
TRINITY_DN15589_c0_g1::TRINITY_DN15589_c0_g1_i4::g.54099::m.54099	PF00883.20	Peptidase_M17	MER0659646	leucyl aminopeptidase	M17.002	M17
TRINITY_DN17805_c0_g1::TRINITY_DN17805_c0_g1_i5::g.89980::m.89980	PF01592.15	NifU_N	MER0474067	PepB aminopeptidase	M17.004	M17
TRINITY_DN14079_c0_g2::TRINITY_DN14079_c0_g2_i4::g.32111::m.32111	PF02127.14	Peptidase_M18	MER0546943	family M18 non-peptidase homologues	M18.UNW	M18
TRINITY_DN12445_c0_g2::TRINITY_DN12445_c0_g2_i13::g.12955::m.12955	PF02127.14	Peptidase_M18	MER0900398	family M18 unassigned peptidases	M18.UPW	M18
TRINITY_DN20036_c5_g1::TRINITY_DN20036_c5_g1_i2::g.127587::m.127587	PF02127.14	Peptidase_M18	MER0901680	family M18 unassigned peptidases	M18.UPW	M18
TRINITY_DN12030_c0_g1::TRINITY_DN12030_c0_g1_i2::g.10080::m.10080	PF01546.27	Peptidase_M20	MER0015308	subfamily M20A unassigned peptidases	M20.UPA	M20A
TRINITY_DN13264_c3_g1::TRINITY_DN13264_c3_g1_i4::g.21666::m.21666	PF01546.27	Peptidase_M20	MER0622135	subfamily M20A unassigned peptidases	M20.UPA	M20A
TRINITY_DN18313_c3_g2::TRINITY_DN18313_c3_g2_i2::g.98848::m.98848	PF01546.27	Peptidase_M20	MER0550674	subfamily M20A unassigned peptidases	M20.UPA	M20A
TRINITY_DN16272_c1_g2::TRINITY_DN16272_c1_g2_i3::g.64808::m.64808	PF01546.27	Peptidase_M20	MER0588973	family M20 unassigned peptidases	M20.UPW	M20X
TRINITY_DN16513_c0_g3::TRINITY_DN16513_c0_g3_i2::g.68923::m.68923	PF00804.24	Syntaxin	MER1151076	subfamily M23B unassigned peptidases	M23.UPB	M23B
TRINITY_DN17082_c4_g2::TRINITY_DN17082_c4_g2_i2::g.78169::m.78169	PF08172.11	CASP_C	MER1150565	subfamily M23B unassigned peptidases	M23.UPB	M23B
TRINITY_DN19972_c2_g1::TRINITY_DN19972_c2_g1_i3::g.126916::m.126916	PF00141.22	peroxidase	MER0233833	subfamily M23B unassigned peptidases	M23.UPB	M23B
TRINITY_DN17383_c0_g1::TRINITY_DN17383_c0_g1_i3::g.82754::m.82754	PF00557.23	Peptidase_M24	MER0536976	methionyl aminopeptidase 1	M24.001	M24A
TRINITY_DN16453_c2_g1::TRINITY_DN16453_c2_g1_i14::g.67807::m.67807	PF00557.23	Peptidase_M24	MER0189826	Xaa-Pro dipeptidase	M24.007	M24B
TRINITY_DN18526_c1_g2::TRINITY_DN18526_c1_g2_i7::g.101942::m.101942	PF01321.17	Creatinase_N	MER0650756	At4g36760 g.p.	M24.037	M24B
TRINITY_DN16102_c2_g2::TRINITY_DN16102_c2_g2_i1::g.62195::m.62195			MER0168264	proliferation-association protein 1	M24.973	M24X
TRINITY_DN18982_c0_g1::TRINITY_DN18982_c0_g1_i8::g.109877::m.109877	PF00557.23	Peptidase_M24	MER0176444	proliferation-association protein 1	M24.973	M24X
TRINITY_DN17401_c1_g1::TRINITY_DN17401_c1_g1_i4::g.83099::m.83099	PF00557.23	Peptidase_M24	MER0551690	At2g44180	M24.A02	M24A
TRINITY_DN16102_c2_g6::TRINITY_DN16102_c2_g6_i1::g.62197::m.62197	PF00557.23	Peptidase_M24	MER0586503	family M24 non-peptidase homologues	M24.UNW	M24X

TRINITY_DN11213_c0_g1::TRINITY_DN11213_c0_g1_i2::g.6642::m.6642	PF03868.14	Ribosomal_L6e_N	MER0512373	subfamily M24B unassigned peptidases	M24.UPB	M24B
TRINITY_DN13433_c0_g1::TRINITY_DN13433_c0_g1_i4::g.23725::m.23725	PF05450.14	Nicastrin	MER0622161	family M28 non-peptidase homologues	M28.UNW	M28X
TRINITY_DN14751_c0_g1::TRINITY_DN14751_c0_g1_i8::g.40814::m.40814	PF04389.16	Peptidase_M28	MER0645168	family M28 unassigned peptidases	M28.UPW	M28X
TRINITY_DN15354_c0_g1::TRINITY_DN15354_c0_g1_i1::g.50622::m.50622	PF00547.17	Urease_gamma	MER0413426	urease	M38.982	M38
TRINITY_DN15473_c1_g1::TRINITY_DN15473_c1_g1_i2::g.52569::m.52569	PF01979.19	Amidohydro_1	MER0411921	family M38 non-peptidase homologues	M38.UNW	M38
TRINITY_DN18967_c1_g1::TRINITY_DN18967_c1_g1_i1::g.109547::m.109547	PF01979.19	Amidohydro_1	MER0585097	family M38 non-peptidase homologues	M38.UNW	M38
TRINITY_DN17307_c3_g1::TRINITY_DN17307_c3_g1_i2::g.81691::m.81691	PF01979.19	Amidohydro_1	MER0622001	family M38 unassigned peptidases	M38.UPW	M38
TRINITY_DN18544_c2_g2::TRINITY_DN18544_c2_g2_i1::g.102351::m.102351	PF01434.17	Peptidase_M41	MER0588329	AtFtsH2 peptidase	M41.005	M41
TRINITY_DN12983_c5_g1::TRINITY_DN12983_c5_g1_i4::g.18189::m.18189	PF00004.28	AAA	MER0278187	family M41 non-peptidase homologues	M41.UNW	M41
TRINITY_DN13145_c0_g1::TRINITY_DN13145_c0_g1_i9::g.20440::m.20440	PF00004.28	AAA	MER0278187	family M41 non-peptidase homologues	M41.UNW	M41
TRINITY_DN14197_c0_g1::TRINITY_DN14197_c0_g1_i2::g.33493::m.33493	PF00004.28	AAA	MER0278187	family M41 non-peptidase homologues	M41.UNW	M41
TRINITY_DN14266_c0_g1::TRINITY_DN14266_c0_g1_i8::g.34769::m.34769	PF02359.17	CDC48_N	MER0413614	family M41 non-peptidase homologues	M41.UNW	M41
TRINITY_DN14266_c0_g5::TRINITY_DN14266_c0_g5_i1::g.34758::m.34758	PF02933.16	CDC48_2	MER0413614	family M41 non-peptidase homologues	M41.UNW	M41
TRINITY_DN14603_c3_g1::TRINITY_DN14603_c3_g1_i1::g.39490::m.39490	PF00004.28	AAA	MER0224153	family M41 non-peptidase homologues	M41.UNW	M41
TRINITY_DN14979_c0_g1::TRINITY_DN14979_c0_g1_i9::g.45197::m.45197	PF00004.28	AAA	MER0413614	family M41 non-peptidase homologues	M41.UNW	M41
TRINITY_DN16963_c2_g3::TRINITY_DN16963_c2_g3_i1::g.76239::m.76239	PF00004.28	AAA	MER0258487	family M41 non-peptidase homologues	M41.UNW	M41
TRINITY_DN18049_c1_g1::TRINITY_DN18049_c1_g1_i7::g.94346::m.94346	PF00004.28	AAA	MER0413614	family M41 non-peptidase homologues	M41.UNW	M41
TRINITY_DN18049_c1_g3::TRINITY_DN18049_c1_g3_i3::g.94352::m.94352	PF00004.28	AAA	MER0413614	family M41 non-peptidase homologues	M41.UNW	M41
TRINITY_DN18255_c0_g1::TRINITY_DN18255_c0_g1_i22::g.97730::m.97730	PF04212.17	MIT	MER0258487	family M41 non-peptidase homologues	M41.UNW	M41
TRINITY_DN18940_c3_g1::TRINITY_DN18940_c3_g1_i4::g.109190::m.109190	PF06480.14	FtsH_ext	MER0037053	family M41 non-peptidase homologues	M41.UNW	M41

TRINITY_DN19551_c4_g4::TRINITY_DN19551_c4_g4_i1::g.119681::m.119681	PF00004.28	AAA	MER0264995	family M41 non-peptidase homologues	M41.UNW	M41
TRINITY_DN19655_c2_g1::TRINITY_DN19655_c2_g1_i11::g.121761::m.121761	PF00004.28	AAA	MER0278187	family M41 non-peptidase homologues	M41.UNW	M41
TRINITY_DN19665_c1_g1::TRINITY_DN19665_c1_g1_i7::g.121863::m.121863	PF00004.28	AAA	MER0412267	family M41 non-peptidase homologues	M41.UNW	M41
TRINITY_DN19798_c2_g2::TRINITY_DN19798_c2_g2_i18::g.123759::m.123759	PF02933.16	CDC48_2	MER0273571	family M41 non-peptidase homologues	M41.UNW	M41
TRINITY_DN19798_c2_g2::TRINITY_DN19798_c2_g2_i9::g.123749::m.123749	PF00004.28	AAA	MER0273571	family M41 non-peptidase homologues	M41.UNW	M41
TRINITY_DN15978_c1_g2::TRINITY_DN15978_c1_g2_i1::g.59851::m.59851	PF01434.17	Peptidase_M41	MER0511566	family M41 unassigned peptidases	M41.UPW	M41
TRINITY_DN17613_c0_g1::TRINITY_DN17613_c0_g1_i11::g.87113::m.87113	PF01434.17	Peptidase_M41	MER0190576	family M41 unassigned peptidases	M41.UPW	M41
TRINITY_DN17821_c0_g1::TRINITY_DN17821_c0_g1_i3::g.91084::m.91084	PF07724.13	AAA_2	MER0285623	family M41 unassigned peptidases	M41.UPW	M41
TRINITY_DN19717_c0_g1::TRINITY_DN19717_c0_g1_i2::g.122513::m.122513	PF16491.4	Peptidase_M48_N	MER0171229	farnesylated-protein converting enzyme 1	M48.003	M48A
TRINITY_DN16217_c1_g2::TRINITY_DN16217_c1_g2_i5::g.64084::m.64084	PF01435.17	Peptidase_M48	MER0570784	At5g51740	M48.A01	M48C
TRINITY_DN19286_c0_g1::TRINITY_DN19286_c0_g1_i3::g.115330::m.115330	PF00293.27	NUDIX	MER0627730	family M49 unassigned peptidases	M49.UPW	M49
TRINITY_DN13349_c1_g1::TRINITY_DN13349_c1_g1_i7::g.22584::m.22584	PF00571.27	CBS	MER0236128	subfamily M50B non-peptidase homologues	M50.UNB	M50B
TRINITY_DN16859_c0_g3::TRINITY_DN16859_c0_g3_i1::g.74469::m.74469	PF13180.5	PDZ_2	MER0270354	subfamily M50B non-peptidase homologues	M50.UNB	M50B
TRINITY_DN16218_c1_g2::TRINITY_DN16218_c1_g2_i6::g.64375::m.64375	PF00571.27	CBS	MER0231653	family M50 non-peptidase homologues	M50.UNW	M50
TRINITY_DN17578_c2_g1::TRINITY_DN17578_c2_g1_i2::g.85652::m.85652	PF01398.20	JAB	MER0637000	Csn5 peptidase	M67.002	M67A
TRINITY_DN17014_c1_g3::TRINITY_DN17014_c1_g3_i2::g.77015::m.77015	PF01398.20	JAB	MER0570062	Mername-AA168 protein	M67.971	M67X
TRINITY_DN14916_c3_g2::TRINITY_DN14916_c3_g2_i1::g.44503::m.44503	PF01398.20	JAB	MER0592313	26S proteasome non-ATPase regulatory subunit 7	M67.973	M67A
TRINITY_DN14547_c0_g1::TRINITY_DN14547_c0_g1_i3::g.38055::m.38055	PF01398.20	JAB	MER0571370	eukaryotic translation initiation factor 3 subunit F	M67.974	M67X
TRINITY_DN14324_c0_g1::TRINITY_DN14324_c0_g1_i3::g.35430::m.35430	PF01398.20	JAB	MER0191219	At1g80210	M67.A03	M67A
TRINITY_DN14398_c0_g1::TRINITY_DN14398_c0_g1_i7::g.36405::m.36405	PF11543.7	UN_NPL4	MER0393371	subfamily M67A non-peptidase homologues	M67.UNA	M67A

TRINITY_DN10774_c0_g1::TRINITY_DN10774_c0_g1_i7::g.5503::m.5503	PF13012.5	MitMem_reg	MER0535737	family M67 non-peptidase homologues	M67.UNW	M67X
TRINITY_DN11643_c0_g1::TRINITY_DN11643_c0_g1_i1::g.8230::m.8230	PF01398.20	JAB	MER0905581	subfamily M67A unassigned peptidases	M67.UPA	M67A
TRINITY_DN19333_c1_g1::TRINITY_DN19333_c1_g1_i1::g.116168::m.116168	PF00501.27	AMP-binding	MER0681296	subfamily M67C unassigned peptidases	M67.UPC	M67C
TRINITY_DN17010_c0_g1::TRINITY_DN17010_c0_g1_i4::g.76944::m.76944	PF04563.14	RNA_pol_Rpb2_1	MER0195833	family N11 unassigned peptide lyases	N11.UPW	N11
TRINITY_DN18281_c0_g1::TRINITY_DN18281_c0_g1_i4::g.98025::m.98025	PF04563.14	RNA_pol_Rpb2_1	MER0195833	family N11 unassigned peptide lyases	N11.UPW	N11
TRINITY_DN15090_c0_g1::TRINITY_DN15090_c0_g1_i3::g.46611::m.46611	PF13365.5	Trypsin_2	MER0217205	Nma111 peptidase	S01.434	S01D
TRINITY_DN11519_c0_g1::TRINITY_DN11519_c0_g1_i2::g.7693::m.7693	PF12037.7	DUF3523	MER0413366	subfamily S1A non-peptidase homologues	S01.UNA	S01A
TRINITY_DN14042_c0_g1::TRINITY_DN14042_c0_g1_i1::g.31618::m.31618	PF12037.7	DUF3523	MER0411906	subfamily S1A non-peptidase homologues	S01.UNA	S01A
TRINITY_DN14323_c2_g3::TRINITY_DN14323_c2_g3_i2::g.35593::m.35593	PF00004.28	AAA	MER0413366	subfamily S1A non-peptidase homologues	S01.UNA	S01A
TRINITY_DN11079_c0_g1::TRINITY_DN11079_c0_g1_i1::g.6259::m.6259	PF01344.24	Kelch_1	MER0366613	subfamily S1A unassigned peptidases	S01.UPA	S01A
TRINITY_DN13916_c2_g1::TRINITY_DN13916_c2_g1_i2::g.30380::m.30380	PF00565.16	SNase	MER0573000	subfamily S1A unassigned peptidases	S01.UPA	S01A
TRINITY_DN16993_c0_g2::TRINITY_DN16993_c0_g2_i2::g.76741::m.76741	PF00082.21	Peptidase_S8	MER0621382	ARA12 peptidase	S08.112	S08A
TRINITY_DN17067_c1_g2::TRINITY_DN17067_c1_g2_i1::g.77892::m.77892	PF00082.21	Peptidase_S8	MER0570101	ARA12 peptidase	S08.112	S08A
TRINITY_DN13334_c3_g4::TRINITY_DN13334_c3_g4_i1::g.22910::m.22910	PF00082.21	Peptidase_S8	MER0551416	AIR3 peptidase	S08.119	S08A
TRINITY_DN19475_c9_g3::TRINITY_DN19475_c9_g3_i3::g.118615::m.118615	PF00082.21	Peptidase_S8	MER0511553	AIR3 peptidase	S08.119	S08A
TRINITY_DN19995_c2_g1::TRINITY_DN19995_c2_g1_i2::g.127478::m.127478	PF00082.21	Peptidase_S8	MER0500511	At4g00230	S08.A14	S08A
TRINITY_DN16581_c1_g3::TRINITY_DN16581_c1_g3_i2::g.69928::m.69928	PF00082.21	Peptidase_S8	MER0511501	At5g59810	S08.A26	S08A
TRINITY_DN13334_c3_g1::TRINITY_DN13334_c3_g1_i2::g.22908::m.22908	PF00082.21	Peptidase_S8	MER0039101	At1g32980	S08.A31	S08A
TRINITY_DN19475_c9_g1::TRINITY_DN19475_c9_g1_i7::g.118616::m.118616	PF00082.21	Peptidase_S8	MER0039101	At1g32980	S08.A31	S08A
TRINITY_DN16867_c0_g1::TRINITY_DN16867_c0_g1_i8::g.74659::m.74659	PF00415.17	RCC1	MER0987837	subfamily S8A non-peptidase homologues	S08.UNA	S08A

TRINITY_DN18983_c0_g1::TRINITY_DN18983_c0_g1_i9::g.110074::m.110074	PF00415.17	RCC1	MER0987837	subfamily S8A non-peptidase homologues	S08.UNA	S08A
TRINITY_DN10710_c0_g1::TRINITY_DN10710_c0_g1_i1::g.5355::m.5355			MER0622172	subfamily S8A unassigned peptidases	S08.UPA	S08A
TRINITY_DN12154_c0_g1::TRINITY_DN12154_c0_g1_i6::g.10864::m.10864			MER0592913	subfamily S8A unassigned peptidases	S08.UPA	S08A
TRINITY_DN15525_c0_g1::TRINITY_DN15525_c0_g1_i8::g.53299::m.53299	PF00082.21	Peptidase_S8	MER0544355	subfamily S8A unassigned peptidases	S08.UPA	S08A
TRINITY_DN17241_c0_g1::TRINITY_DN17241_c0_g1_i1::g.80827::m.80827	PF00082.21	Peptidase_S8	MER0621966	subfamily S8A unassigned peptidases	S08.UPA	S08A
TRINITY_DN18618_c2_g1::TRINITY_DN18618_c2_g1_i14::g.103865::m.103865	PF00082.21	Peptidase_S8	MER0979912	subfamily S8A unassigned peptidases	S08.UPA	S08A
TRINITY_DN18634_c2_g1::TRINITY_DN18634_c2_g1_i4::g.104214::m.104214	PF00082.21	Peptidase_S8	MER0495288	subfamily S8A unassigned peptidases	S08.UPA	S08A
TRINITY_DN19405_c0_g1::TRINITY_DN19405_c0_g1_i2::g.117368::m.117368			MER0527005	subfamily S8A unassigned peptidases	S08.UPA	S08A
TRINITY_DN16996_c2_g1::TRINITY_DN16996_c2_g1_i5::g.76760::m.76760	PF02897.14	Peptidase_S9_N	MER0180801	prolyl oligopeptidase	S09.001	S09A
TRINITY_DN19080_c0_g2::TRINITY_DN19080_c0_g2_i7::g.111803::m.111803	PF00326.20	Peptidase_S9	MER0547062	glutamyl endopeptidase C	S09.021	S09D
TRINITY_DN11898_c0_g1::TRINITY_DN11898_c0_g1_i2::g.9380::m.9380	PF00326.20	Peptidase_S9	MER0627651	tyrosyl aminopeptidase	S09.074	S09C
TRINITY_DN12879_c0_g1::TRINITY_DN12879_c0_g1_i1::g.16746::m.16746	PF00756.19	Esterase	MER0622192	S-formylglutathione hydrolase FrmB	S09.940	S09B
TRINITY_DN17454_c3_g1::TRINITY_DN17454_c3_g1_i1::g.84103::m.84103	PF07859.12	Abhydrolase_3	MER0500509	At2g45600	S09.A07	S09X
TRINITY_DN11922_c0_g1::TRINITY_DN11922_c0_g1_i1::g.9511::m.9511	PF07859.12	Abhydrolase_3	MER0500510	At2g45610	S09.A11	S09X
TRINITY_DN14069_c0_g5::TRINITY_DN14069_c0_g5_i5::g.32070::m.32070	PF00326.20	Peptidase_S9	MER0510411	At1g26120	S09.A21	S09X
TRINITY_DN17846_c4_g3::TRINITY_DN17846_c4_g3_i1::g.90654::m.90654	PF00326.20	Peptidase_S9	MER0571840	At5g20520	S09.A24	S09C
TRINITY_DN16462_c1_g1::TRINITY_DN16462_c1_g1_i7::g.68028::m.68028	PF02230.15	Abhydrolase_2	MER0209135	AT5G20060 protein	S09.A56	S09X
TRINITY_DN11301_c0_g1::TRINITY_DN11301_c0_g1_i2::g.6892::m.6892	PF08154.11	NLE	MER0149148	family S9 non-peptidase homologues	S09.UNW	S09X
TRINITY_DN11371_c0_g2::TRINITY_DN11371_c0_g2_i2::g.7148::m.7148	PF00400.31	WD40	MER0183518	family S9 non-peptidase homologues	S09.UNW	S09X
TRINITY_DN11389_c0_g1::TRINITY_DN11389_c0_g1_i1::g.7193::m.7193	PF00400.31	WD40	MER0148915	family S9 non-peptidase homologues	S09.UNW	S09X

TRINITY_DN11410_c0_g1::TRINITY_DN11410_c0_g1_i1::g.7283::m.7283	PF00400.31	WD40	MER0156739	family S9 non-peptidase homologues	S09.UNW	S09X
TRINITY_DN13121_c2_g1::TRINITY_DN13121_c2_g1_i1::g.20130::m.20130	PF08606.10	Prp19	MER0137389	family S9 non-peptidase homologues	S09.UNW	S09X
TRINITY_DN13563_c1_g1::TRINITY_DN13563_c1_g1_i8::g.25419::m.25419	PF00400.31	WD40	MER0156766	family S9 non-peptidase homologues	S09.UNW	S09X
TRINITY_DN14188_c2_g2::TRINITY_DN14188_c2_g2_i3::g.32373::m.32373	PF00400.31	WD40	MER0057464	family S9 non-peptidase homologues	S09.UNW	S09X
TRINITY_DN15198_c1_g3::TRINITY_DN15198_c1_g3_i1::g.48326::m.48326	PF12265.7	CAF1C_H4-bd	MER0157466	family S9 non-peptidase homologues	S09.UNW	S09X
TRINITY_DN15236_c1_g2::TRINITY_DN15236_c1_g2_i4::g.49063::m.49063	PF00400.31	WD40	MER0146853	family S9 non-peptidase homologues	S09.UNW	S09X
TRINITY_DN15276_c1_g1::TRINITY_DN15276_c1_g1_i6::g.49461::m.49461	PF00400.31	WD40	MER0158050	family S9 non-peptidase homologues	S09.UNW	S09X
TRINITY_DN15696_c0_g5::TRINITY_DN15696_c0_g5_i1::g.55738::m.55738	PF00400.31	WD40	MER0136116	family S9 non-peptidase homologues	S09.UNW	S09X
TRINITY_DN15771_c0_g1::TRINITY_DN15771_c0_g1_i5::g.56845::m.56845	PF00400.31	WD40	MER0156555	family S9 non-peptidase homologues	S09.UNW	S09X
TRINITY_DN15771_c0_g2::TRINITY_DN15771_c0_g2_i3::g.56846::m.56846	PF00400.31	WD40	MER0156555	family S9 non-peptidase homologues	S09.UNW	S09X
TRINITY_DN16031_c0_g3::TRINITY_DN16031_c0_g3_i1::g.60905::m.60905	PF00400.31	WD40	MER0158050	family S9 non-peptidase homologues	S09.UNW	S09X
TRINITY_DN16808_c0_g1::TRINITY_DN16808_c0_g1_i2::g.73724::m.73724	PF01738.17	DLH	MER0092863	family S9 non-peptidase homologues	S09.UNW	S09X
TRINITY_DN16940_c1_g1::TRINITY_DN16940_c1_g1_i2::g.75863::m.75863	PF01738.17	DLH	MER0209990	family S9 non-peptidase homologues	S09.UNW	S09X
TRINITY_DN16940_c1_g2::TRINITY_DN16940_c1_g2_i2::g.75865::m.75865	PF01738.17	DLH	MER0213725	family S9 non-peptidase homologues	S09.UNW	S09X
TRINITY_DN17067_c1_g1::TRINITY_DN17067_c1_g1_i1::g.77883::m.77883	PF00400.31	WD40	MER0156766	family S9 non-peptidase homologues	S09.UNW	S09X
TRINITY_DN18437_c1_g1::TRINITY_DN18437_c1_g1_i4::g.100574::m.100574	PF08799.10	PRP4	MER0137389	family S9 non-peptidase homologues	S09.UNW	S09X
TRINITY_DN18615_c1_g3::TRINITY_DN18615_c1_g3_i2::g.103395::m.103395	PF01738.17	DLH	MER0210444	family S9 non-peptidase homologues	S09.UNW	S09X
TRINITY_DN18781_c0_g5::TRINITY_DN18781_c0_g5_i3::g.106209::m.106209	PF00400.31	WD40	MER0156586	family S9 non-peptidase homologues	S09.UNW	S09X
TRINITY_DN18857_c0_g1::TRINITY_DN18857_c0_g1_i9::g.107487::m.107487	PF00400.31	WD40	MER0159213	family S9 non-peptidase homologues	S09.UNW	S09X
TRINITY_DN19669_c1_g1::TRINITY_DN19669_c1_g1_i10::g.121794::m.121794	PF01738.17	DLH	MER0135138	family S9 non-peptidase homologues	S09.UNW	S09X

TRINITY_DN20043_c8_g6::TRINITY_DN20043_c8_g6_i2::g.128243::m.128243	PF00400.31	WD40	MER0136116	family S9 non-peptidase homologues	S09.UNW	S09X
TRINITY_DN9342_c0_g1::TRINITY_DN9342_c0_g1_i1::g.3304::m.3304	PF00400.31	WD40	MER0158050	family S9 non-peptidase homologues	S09.UNW	S09X
TRINITY_DN14491_c1_g5::TRINITY_DN14491_c1_g5_i7::g.37912::m.37912	PF00326.20	Peptidase_S9	MER0413191	subfamily S9A unassigned peptidases	S09.UPA	S09A
TRINITY_DN12510_c1_g1::TRINITY_DN12510_c1_g1_i1::g.13448::m.13448	PF07676.11	PD40	MER0404572	subfamily S9B unassigned peptidases	S09.UPB	S09B
TRINITY_DN13205_c0_g1::TRINITY_DN13205_c0_g1_i3::g.21053::m.21053	PF07859.12	Abhydrolase_3	MER0588552	subfamily S9C unassigned peptidases	S09.UPC	S09C
TRINITY_DN13729_c0_g1::TRINITY_DN13729_c0_g1_i8::g.27674::m.27674	PF07859.12	Abhydrolase_3	MER0511717	subfamily S9C unassigned peptidases	S09.UPC	S09C
TRINITY_DN15900_c2_g1::TRINITY_DN15900_c2_g1_i1::g.57240::m.57240	PF00326.20	Peptidase_S9	MER1300318	subfamily S9C unassigned peptidases	S09.UPC	S09C
TRINITY_DN17776_c0_g1::TRINITY_DN17776_c0_g1_i2::g.89550::m.89550	PF07859.12	Abhydrolase_3	MER0621913	subfamily S9C unassigned peptidases	S09.UPC	S09C
TRINITY_DN17776_c1_g1::TRINITY_DN17776_c1_g1_i2::g.89554::m.89554	PF07859.12	Abhydrolase_3	MER0621926	subfamily S9C unassigned peptidases	S09.UPC	S09C
TRINITY_DN19388_c2_g2::TRINITY_DN19388_c2_g2_i2::g.117003::m.117003	PF07859.12	Abhydrolase_3	MER0621926	subfamily S9C unassigned peptidases	S09.UPC	S09C
TRINITY_DN15072_c0_g1::TRINITY_DN15072_c0_g1_i2::g.46447::m.46447	PF00400.31	WD40	MER0156515	family S9 unassigned peptidases	S09.UPW	S09X
TRINITY_DN16577_c0_g1::TRINITY_DN16577_c0_g1_i6::g.69863::m.69863	PF12146.7	Hydrolase_4	MER0583385	family S9 unassigned peptidases	S09.UPW	S09X
TRINITY_DN17928_c2_g1::TRINITY_DN17928_c2_g1_i2::g.92278::m.92278	PF02230.15	Abhydrolase_2	MER0588084	family S9 unassigned peptidases	S09.UPW	S09X
TRINITY_DN18181_c1_g1::TRINITY_DN18181_c1_g1_i2::g.96439::m.96439	PF12697.6	Abhydrolase_6	MER0639174	family S9 unassigned peptidases	S09.UPW	S09X
TRINITY_DN18181_c1_g1::TRINITY_DN18181_c1_g1_i3::g.96440::m.96440	PF12697.6	Abhydrolase_6	MER0639174	family S9 unassigned peptidases	S09.UPW	S09X
TRINITY_DN18783_c5_g1::TRINITY_DN18783_c5_g1_i3::g.106356::m.106356	PF00450.21	Peptidase_S10	MER0629092	serine carboxypeptidase C	S10.004	S10
TRINITY_DN15931_c0_g1::TRINITY_DN15931_c0_g1_i5::g.59103::m.59103	PF00450.21	Peptidase_S10	MER0425718	serine carboxypeptidase D	S10.005	S10
TRINITY_DN13350_c3_g1::TRINITY_DN13350_c3_g1_i5::g.22631::m.22631	PF00450.21	Peptidase_S10	MER0525671	serine carboxypeptidase III	S10.009	S10
TRINITY_DN18581_c2_g1::TRINITY_DN18581_c2_g1_i1::g.102861::m.102861	PF00450.21	Peptidase_S10	MER0571188	serine carboxypeptidase III	S10.009	S10
TRINITY_DN12399_c0_g1::TRINITY_DN12399_c0_g1_i1::g.12011::m.12011	PF00450.21	Peptidase_S10	MER0637468	OsBISCPL1-type putative carboxypeptidase	S10.017	S10

TRINITY_DN17727_c1_g3::TRINITY_DN17727_c1_g3_i1::g.88887::m.88887	PF00450.21	Peptidase_S10	MER0511739	At4g30810	S10.A32	S10
TRINITY_DN19791_c7_g1::TRINITY_DN19791_c7_g1_i1::g.123736::m.123736	PF00450.21	Peptidase_S10	MER0546785	At3g63470	S10.A41	S10
TRINITY_DN19791_c7_g4::TRINITY_DN19791_c7_g4_i2::g.123739::m.123739	PF00450.21	Peptidase_S10	MER0660317	At3g63470	S10.A41	S10
TRINITY_DN19791_c7_g2::TRINITY_DN19791_c7_g2_i1::g.123738::m.123738	PF00450.21	Peptidase_S10	MER0628063	family S10 non-peptidase homologues	S10.UNW	S10
TRINITY_DN13374_c2_g1::TRINITY_DN13374_c2_g1_i4::g.22819::m.22819	PF00109.25	ketoacyl-synt	MER0947272	family S10 unassigned peptidases	S10.UPW	S10
TRINITY_DN18581_c2_g2::TRINITY_DN18581_c2_g2_i8::g.102871::m.102871	PF00450.21	Peptidase_S10	MER0943604	family S10 unassigned peptidases	S10.UPW	S10
TRINITY_DN18581_c2_g2::TRINITY_DN18581_c2_g2_i16::g.102885::m.102885	PF00450.21	Peptidase_S10	MER0943604	family S10 unassigned peptidases	S10.UPW	S10
TRINITY_DN19589_c2_g2::TRINITY_DN19589_c2_g2_i4::g.120310::m.120310	PF00109.25	ketoacyl-synt	MER0947272	family S10 unassigned peptidases	S10.UPW	S10
TRINITY_DN19596_c1_g1::TRINITY_DN19596_c1_g1_i8::g.120430::m.120430	PF00450.21	Peptidase_S10	MER0943128	family S10 unassigned peptidases	S10.UPW	S10
TRINITY_DN19909_c0_g1::TRINITY_DN19909_c0_g1_i3::g.126119::m.126119	PF08263.11	LRRNT_2	MER0350329	family S10 unassigned peptidases	S10.UPW	S10
TRINITY_DN15458_c1_g3::TRINITY_DN15458_c1_g3_i6::g.52102::m.52102	PF00574.22	CLP_protease	MER0639468	peptidase Clp	S14.001	S14
TRINITY_DN18083_c3_g1::TRINITY_DN18083_c3_g1_i4::g.94853::m.94853	PF00574.22	CLP_protease	MER0547056	peptidase Clp	S14.001	S14
TRINITY_DN16310_c4_g1::TRINITY_DN16310_c4_g1_i21::g.65586::m.65586	PF00574.22	CLP_protease	MER0423286	peptidase Clp	S14.002	S14
TRINITY_DN18647_c1_g1::TRINITY_DN18647_c1_g1_i1::g.103820::m.103820	PF00574.22	CLP_protease	MER0411733	peptidase Clp	S14.006	S14
TRINITY_DN11884_c0_g1::TRINITY_DN11884_c0_g1_i2::g.9315::m.9315	PF00574.22	CLP_protease	MER0663832	ClpP4 peptidase	S14.010	S14
TRINITY_DN16339_c2_g2::TRINITY_DN16339_c2_g2_i2::g.65998::m.65998	PF02190.15	LON_substr_bdg	MER1036228	family S16 unassigned peptidases	S16.UPW	S16
TRINITY_DN15316_c4_g2::TRINITY_DN15316_c4_g2_i4::g.50087::m.50087	PF00717.22	Peptidase_S24	MER0659784	signalase	S26.010	S26B
TRINITY_DN16549_c1_g2::TRINITY_DN16549_c1_g2_i1::g.69658::m.69658			MER0411784	subfamily S26A non-peptidase homologues	S26.UNA	S26A
TRINITY_DN17970_c3_g1::TRINITY_DN17970_c3_g1_i6::g.92954::m.92954	PF05577.11	Peptidase_S28	MER0143936	AT5g65760	S28.A02	S28
TRINITY_DN14658_c2_g1::TRINITY_DN14658_c2_g1_i2::g.40152::m.40152	PF05577.11	Peptidase_S28	MER1054347	family S28 unassigned peptidases	S28.UPW	S28

TRINITY_DN17889_c3_g3::TRINITY_DN17889_c3_g3_i2::g.91373::m.91373	PF12146.7	Hydrolase_4	MER0036047	At2g39420	S33.A20	S33
TRINITY_DN12628_c0_g1::TRINITY_DN12628_c0_g1_i15::g.14380::m.14380			MER0579732	family S33 non-peptidase homologues	S33.UNW	S33
TRINITY_DN12692_c0_g1::TRINITY_DN12692_c0_g1_i7::g.14951::m.14951	PF16113.4	ECH_2	MER0663876	family S33 non-peptidase homologues	S33.UNW	S33
TRINITY_DN15115_c0_g4::TRINITY_DN15115_c0_g4_i3::g.47102::m.47102	PF00561.19	Abhydrolase_1	MER0588542	family S33 non-peptidase homologues	S33.UNW	S33
TRINITY_DN15145_c0_g2::TRINITY_DN15145_c0_g2_i2::g.46817::m.46817	PF00561.19	Abhydrolase_1	MER1140018	family S33 non-peptidase homologues	S33.UNW	S33
TRINITY_DN11909_c0_g1::TRINITY_DN11909_c0_g1_i2::g.9470::m.9470	PF00561.19	Abhydrolase_1	MER0622092	family S33 unassigned peptidases	S33.UPW	S33
TRINITY_DN12181_c0_g1::TRINITY_DN12181_c0_g1_i6::g.10945::m.10945	PF12146.7	Hydrolase_4	MER0570602	family S33 unassigned peptidases	S33.UPW	S33
TRINITY_DN12384_c0_g1::TRINITY_DN12384_c0_g1_i2::g.12333::m.12333	PF01729.18	QRPTase_C	MER0411618	family S33 unassigned peptidases	S33.UPW	S33
TRINITY_DN15133_c0_g1::TRINITY_DN15133_c0_g1_i1::g.47252::m.47252	PF00561.19	Abhydrolase_1	MER1334561	family S33 unassigned peptidases	S33.UPW	S33
TRINITY_DN15513_c2_g2::TRINITY_DN15513_c2_g2_i3::g.53087::m.53087	PF12697.6	Abhydrolase_6	MER0622197	family S33 unassigned peptidases	S33.UPW	S33
TRINITY_DN16306_c1_g1::TRINITY_DN16306_c1_g1_i3::g.65480::m.65480			MER0551075	family S33 unassigned peptidases	S33.UPW	S33
TRINITY_DN16306_c1_g2::TRINITY_DN16306_c1_g2_i2::g.65481::m.65481	PF00561.19	Abhydrolase_1	MER0639178	family S33 unassigned peptidases	S33.UPW	S33
TRINITY_DN16971_c2_g1::TRINITY_DN16971_c2_g1_i8::g.76469::m.76469	PF08538.9	DUF1749	MER0624846	family S33 unassigned peptidases	S33.UPW	S33
TRINITY_DN16987_c2_g1::TRINITY_DN16987_c2_g1_i9::g.76589::m.76589	PF00561.19	Abhydrolase_1	MER0633901	family S33 unassigned peptidases	S33.UPW	S33
TRINITY_DN14091_c1_g2::TRINITY_DN14091_c1_g2_i1::g.32197::m.32197	PF00378.19	ECH_1	MER1073240	subfamily S49C non-peptidase homologues	S49.UNC	S49C
TRINITY_DN15478_c1_g1::TRINITY_DN15478_c1_g1_i1::g.52474::m.52474	PF16113.4	ECH_2	MER1072352	subfamily S49C non-peptidase homologues	S49.UNC	S49C
TRINITY_DN17700_c1_g1::TRINITY_DN17700_c1_g1_i9::g.86845::m.86845	PF00378.19	ECH_1	MER1073240	subfamily S49C non-peptidase homologues	S49.UNC	S49C
TRINITY_DN19596_c0_g2::TRINITY_DN19596_c0_g2_i1::g.120414::m.120414	PF00378.19	ECH_1	MER1073240	subfamily S49C non-peptidase homologues	S49.UNC	S49C
TRINITY_DN12704_c0_g1::TRINITY_DN12704_c0_g1_i4::g.15091::m.15091	PF00153.26	Mito_carr	MER1363300	family S54 non-peptidase homologues	S54.UNW	S54
TRINITY_DN13692_c0_g1::TRINITY_DN13692_c0_g1_i6::g.26626::m.26626	PF00153.26	Mito_carr	MER1363300	family S54 non-peptidase homologues	S54.UNW	S54

TRINITY_DN13692_c1_g1::TRINITY_DN13692_c1_g1_i1::g.26628::m.26628	PF00153.26	Mito_carr	MER1363300	family S54 non-peptidase homologues	S54.UNW	S54
TRINITY_DN14710_c1_g2::TRINITY_DN14710_c1_g2_i5::g.41059::m.41059			MER1080788	family S54 non-peptidase homologues	S54.UNW	S54
TRINITY_DN15558_c1_g3::TRINITY_DN15558_c1_g3_i8::g.53729::m.53729	PF00153.26	Mito_carr	MER1363300	family S54 non-peptidase homologues	S54.UNW	S54
TRINITY_DN15558_c1_g3::TRINITY_DN15558_c1_g3_i7::g.53727::m.53727	PF00153.26	Mito_carr	MER1363300	family S54 non-peptidase homologues	S54.UNW	S54
TRINITY_DN15660_c2_g1::TRINITY_DN15660_c2_g1_i4::g.55101::m.55101	PF01694.21	Rhomboid	MER1082091	family S54 non-peptidase homologues	S54.UNW	S54
TRINITY_DN16118_c1_g1::TRINITY_DN16118_c1_g1_i2::g.62411::m.62411	PF00153.26	Mito_carr	MER1363300	family S54 non-peptidase homologues	S54.UNW	S54
TRINITY_DN16308_c0_g1::TRINITY_DN16308_c0_g1_i5::g.65986::m.65986	PF00153.26	Mito_carr	MER1363300	family S54 non-peptidase homologues	S54.UNW	S54
TRINITY_DN16927_c0_g1::TRINITY_DN16927_c0_g1_i2::g.75647::m.75647	PF04511.14	DER1	MER0125609	family S54 non-peptidase homologues	S54.UNW	S54
TRINITY_DN17369_c1_g1::TRINITY_DN17369_c1_g1_i7::g.82610::m.82610	PF00227.25	Proteasome	MER0172841	proteasome subunit beta1c	T01.010	T01A
TRINITY_DN15811_c0_g5::TRINITY_DN15811_c0_g5_i2::g.57331::m.57331	PF00227.25	Proteasome	MER0411684	proteasome subunit alpha 6	T01.971	T01A
TRINITY_DN18427_c1_g2::TRINITY_DN18427_c1_g2_i5::g.100438::m.100438	PF10584.8	Proteasome_A_N	MER0570712	proteasome subunit alpha 2	T01.972	T01A
TRINITY_DN17658_c5_g3::TRINITY_DN17658_c5_g3_i2::g.87770::m.87770	PF00227.25	Proteasome	MER0571498	proteasome subunit alpha 1	T01.976	T01A
TRINITY_DN13422_c4_g1::TRINITY_DN13422_c4_g1_i9::g.23675::m.23675	PF10584.8	Proteasome_A_N	MER0020043	proteasome subunit alpha 3	T01.977	T01A
TRINITY_DN17070_c2_g4::TRINITY_DN17070_c2_g4_i5::g.77858::m.77858	PF10584.8	Proteasome_A_N	MER0505546	Mername-AA242 peptidase homologue	T01.995	T01A
TRINITY_DN15141_c1_g1::TRINITY_DN15141_c1_g1_i2::g.47502::m.47502	PF00227.25	Proteasome	MER0173164	proteasome subunit beta2	T01.A02	T01A
TRINITY_DN10911_c0_g2::TRINITY_DN10911_c0_g2_i2::g.5805::m.5805	PF00227.25	Proteasome	MER0126199	PBE2 g.p.	T01.A10	T01A
TRINITY_DN14659_c0_g2::TRINITY_DN14659_c0_g2_i6::g.40081::m.40081	PF00227.25	Proteasome	MER0588910	psmB4-2 g.p.	T01.A13	T01X
TRINITY_DN13846_c2_g2::TRINITY_DN13846_c2_g2_i2::g.28548::m.28548	PF00227.25	Proteasome	MER1093865	subfamily T1A non-peptidase homologues	T01.UNA	T01A
TRINITY_DN14731_c0_g4::TRINITY_DN14731_c0_g4_i2::g.41282::m.41282	PF10584.8	Proteasome_A_N	MER0650520	subfamily T1A non-peptidase homologues	T01.UNA	T01A
TRINITY_DN14870_c0_g1::TRINITY_DN14870_c0_g1_i2::g.43479::m.43479	PF00227.25	Proteasome	MER1088634	subfamily T1A non-peptidase homologues	T01.UNA	T01A

TRINITY_DN15416_c2_g2::TRINITY_DN15416_c2_g2_i3::g.51536::m.51536	PF00227.25	Proteasome	MER1090404	subfamily T1A non-peptidase homologues	T01.UNA	T01A
TRINITY_DN12971_c4_g2::TRINITY_DN12971_c4_g2_i4::g.17979::m.17979	PF10584.8	Proteasome_A_N	MER0584369	subfamily T1A unassigned peptidases	T01.UPA	T01A
TRINITY_DN15811_c0_g2::TRINITY_DN15811_c0_g2_i2::g.57329::m.57329	PF10584.8	Proteasome_A_N	MER0637297	subfamily T1A unassigned peptidases	T01.UPA	T01A
TRINITY_DN17150_c2_g1::TRINITY_DN17150_c2_g1_i1::g.79329::m.79329	PF10584.8	Proteasome_A_N	MER0576836	subfamily T1A unassigned peptidases	T01.UPA	T01A
TRINITY_DN17150_c2_g1::TRINITY_DN17150_c2_g1_i7::g.79332::m.79332	PF10584.8	Proteasome_A_N	MER0576836	subfamily T1A unassigned peptidases	T01.UPA	T01A
TRINITY_DN16964_c2_g5::TRINITY_DN16964_c2_g5_i4::g.76427::m.76427	PF03297.14	Ribosomal_S25	MER1365022	family T3 non-peptidase homologues	T03.UNW	T03
TRINITY_DN15448_c0_g1::TRINITY_DN15448_c0_g1_i6::g.51979::m.51979	PF01960.17	ArgJ	MER0122168	ArgJ protein	T05.002	T05
TRINITY_DN15488_c1_g5::TRINITY_DN15488_c1_g5_i3::g.52738::m.52738	PF14226.5	DIOX_N	MER0576457	family T7 unassigned peptidases	T07.UPW	T07
TRINITY_DN19047_c1_g5::TRINITY_DN19047_c1_g5_i2::g.111027::m.111027	PF14226.5	DIOX_N	MER0576457	family T7 unassigned peptidases	T07.UPW	T07
TRINITY_DN19493_c1_g1::TRINITY_DN19493_c1_g1_i9::g.118079::m.118079	PF03171.19	2OG-FeII_Oxy	MER0576457	family T7 unassigned peptidases	T07.UPW	T07
TRINITY_DN19552_c1_g2::TRINITY_DN19552_c1_g2_i2::g.119657::m.119657	PF00155.20	Aminotran_1_2	MER0501945	family U32 unassigned peptidases	U32.UPW	U32
TRINITY_DN14014_c3_g1::TRINITY_DN14014_c3_g1_i1::g.31362::m.31362	PF03080.14	Neprosin	MER0973935	family U74 unassigned peptidases	U74.UPW	U74
TRINITY_DN16195_c0_g1::TRINITY_DN16195_c0_g1_i3::g.63589::m.63589	PF03080.14	Neprosin	MER0973935	family U74 unassigned peptidases	U74.UPW	U74
TRINITY_DN16782_c2_g1::TRINITY_DN16782_c2_g1_i3::g.73171::m.73171	PF03080.14	Neprosin	MER1001725	family U74 unassigned peptidases	U74.UPW	U74
TRINITY_DN16782_c2_g2::TRINITY_DN16782_c2_g2_i4::g.73167::m.73167	PF03080.14	Neprosin	MER0973935	family U74 unassigned peptidases	U74.UPW	U74
TRINITY_DN19409_c5_g1::TRINITY_DN19409_c5_g1_i1::g.117472::m.117472	PF03080.14	Neprosin	MER0973935	family U74 unassigned peptidases	U74.UPW	U74
TRINITY_DN19409_c5_g5::TRINITY_DN19409_c5_g5_i2::g.117475::m.117475	PF03080.14	Neprosin	MER1001725	family U74 unassigned peptidases	U74.UPW	U74

Supplementary Table S11: Identified peptidases in Alnus pollen

Protein IDs	Pfam accession	Pfam family name	Merops accession	Merops family	source organism	Merops peptidase ID	Merops subfamily
ARHOMBI_DN6000_c0_g1_i1_4	PF00026.22	Asp	MER0225868	At1g62290	Arabidopsis thaliana-Coffea canephora	A01.A02	A01A
ARUBRA_DN3984_c0_g1_i1_3	PF00026.22	Asp	MER0680933	At1g62290	Arabidopsis thaliana-Gossypium arboreum	A01.A02	A01A
ARUBRA_DN14653_c0_g1_i1_5	PF14543.5	TAXi_N	MER0584129	At1g05840	Arabidopsis thaliana-type peptidase	A01.A34	A01B
ARUBRA_DN13846_c0_g1_i1_5	PF00026.22	Asp	MER1133951	subfamily A1A unassigned peptidases	Juglans regia	A01.UPA	A01A
ARUBRA_DN4385_c0_g1_i1_6	PF00188.25	CAP	MER0228949	subfamily A1A unassigned peptidases	Debaryomyces hansenii	A01.UPA	A01A
ARUBRA_DN2382_c0_g1_i1_2	PF01095.18	Pectinesterase	MER0570148	family A2 unassigned peptidases	Cucumis sativus	A02.UPW	A02X
ARHOMBI_DN3097_c0_g1_i2_1	PF01095.18	Pectinesterase	MER0572141	family A2 unassigned peptidases	Cucumis melo	A02.UPW	A02X
ARHOMBI_DN5536_c0_g1_i1_1	PF04043.14	PMEI	MER0570148	family A2 unassigned peptidases	Cucumis sativus	A02.UPW	A02X
ARUBRA_DN4454_c0_g1_i1_2	PF01095.18	Pectinesterase	MER0572141	family A2 unassigned peptidases	Cucumis melo	A02.UPW	A02X
ARUBRA_DN6197_c0_g1_i1_1	PF01095.18	Pectinesterase	MER0570148	family A2 unassigned peptidases	Cucumis sativus	A02.UPW	A02X
ARHOMBI_DN17696_c0_g1_i1_3	PF02225.21	PA	MER0143143	subfamily A22B unassigned peptidases	Vitis vinifera	A22.UPB	A22B
ARHOMBI_DN15828_c0_g1_i1_6	PF09668.9	Asp_protease	MER0628276	subfamily A28A unassigned peptidases	Populus euphratica	A28.UPA	A28A
ARUBRA_DN14032_c0_g1_i1_2	PF09668.9	Asp_protease	MER0242426	subfamily A28A unassigned peptidases		A28.UPA	A28A
ARHOMBI_DN16110_c0_g1_i1_4	PF00069.24	Pkinase	MER1360781	family A31 non-peptidase homologues	Thecamonas trahens	A31.UNW	A31
ARHOMBI_DN15739_c0_g1_i1_6	PF00069.24	Pkinase	MER1360781	family A31 non-peptidase homologues	Thecamonas trahens	A31.UNW	A31
ARUBRA_DN3863_c1_g1_i1_5	PF07714.16	Pkinase_Tyr	MER1360781	family A31 non-peptidase homologues	Thecamonas trahens	A31.UNW	A31
ARHOMBI_DN3944_c0_g1_i2_2	PF00069.24	Pkinase	MER1360781	family A31 non-peptidase homologues	Thecamonas trahens	A31.UNW	A31
ARHOMBI_DN3957_c0_g2_i1_3	PF00069.24	Pkinase	MER1360781	family A31 non-peptidase homologues	Thecamonas trahens	A31.UNW	A31
ARHOMBI_DN5409_c0_g1_i1_1			MER1360781	family A31 non-peptidase homologues	Thecamonas trahens	A31.UNW	A31
ARUBRA_DN9894_c0_g1_i1_4	PF00112.22	Peptidase_C1	MER0660253	glycinain	Eucalyptus grandis	C01.022	C01A
ARUBRA_DN4725_c0_g1_i1_2	PF00112.22	Peptidase_C1	MER0640046	cathepsin B, plant form	Nelumbo nucifera	C01.049	C01A
ARHOMBI_DN5653_c0_g1_i1_4	PF00187.18	Chitin_bind_1	MER0428589	Cwp84 peptidase	Limonium bicolor	C01.125	C01A

ARUBRA_DN5882_c0_g1_i1_4	PF00112.22	Peptidase_C1	MER1164780	subfamily C1A unassigned peptidases	Juglans regia	C01.UPA	C01A
ARHOMBI_DN5775_c0_g1_i1_2	PF00112.22	Peptidase_C1	MER1160989	subfamily C1A unassigned peptidases	Juglans regia	C01.UPA	C01A
ARHOMBI_DN6144_c0_g1_i1_4	PF00112.22	Peptidase_C1	MER1161707	subfamily C1A unassigned peptidases	Quercus suber	C01.UPA	C01A
ARHOMBI_DN18082_c0_g1_i1_2			MER0956974	family C115 homologues, unassigned	Genlisea aurea	C115.UPW	C115
ARHOMBI_DN8306_c0_g1_i1_4	PF01088.20	Peptidase_C12	MER1170789	family C12 unassigned peptidases	Juglans regia	C12.UPW	C12
ARUBRA_DN21075_c0_g1_i1_5	PF01088.20	Peptidase_C12	MER1170789	family C12 unassigned peptidases	Juglans regia	C12.UPW	C12
ARHOMBI_DN15559_c0_g1_i1_1	PF00656.21	Peptidase_C14	MER0627629	subfamily C14B unassigned peptidases	Populus euphratica	C14.UPB	C14B
ARUBRA_DN3552_c0_g1_i1_4	PF00656.21	Peptidase_C14	MER0611140	subfamily C14B unassigned peptidases	Populus euphratica	C14.UPB	C14B
ARUBRA_DN21162_c0_g1_i1_4	PF00443.28	UCH	MER0109705	UBP6 peptidase	Vitis vinifera	C19.094	C19
ARHOMBI_DN27310_c0_g1_i1_4			MER0592791	family C19 non-peptidase homologues	Cicer arietinum	C19.UNW	C19
ARUBRA_DN3144_c0_g1_i1_5	PF00627.30	UBA	MER0650471	family C19 unassigned peptidases	Jatropha curcas	C19.UPW	C19
ARHOMBI_DN20913_c0_g1_i1_5	PF00270.28	DEAD	MER0295850	family C26 non-peptidase homologues	Nematostella vectensis	C26.UNW	C26
ARHOMBI_DN9641_c0_g1_i1_3	PF00270.28	DEAD	MER0295850	family C26 non-peptidase homologues	Nematostella vectensis	C26.UNW	C26
ARUBRA_DN18443_c0_g1_i1_6	PF00270.28	DEAD	MER0295850	family C26 non-peptidase homologues	Nematostella vectensis	C26.UNW	C26
ARHOMBI_DN8153_c0_g1_i1_4	PF02540.16	NAD_synthase	MER0588421	family C26 unassigned peptidases	Citrus sinensis	C26.UPW	C26
ARUBRA_DN9286_c0_g1_i1_1	PF12481.7	DUF3700	MER0038019	At4g27450	Arabidopsis thaliana-Arabidopsis thaliana	C44.A04	C44
ARUBRA_DN1786_c0_g1_i1_1	PF12481.7	DUF3700	MER0570230	family C44 unassigned peptidases	Cucumis sativus	C44.UPW	C44
ARHOMBI_DN1764_c0_g1_i1_5	PF00733.20	Asn_synthase	MER0037116	family C44 unassigned peptidases	Solanum lycopersicum	C44.UPW	C44
ARHOMBI_DN2521_c0_g1_i1_6	PF00156.26	Pribosyltran	MER0223378	family C44 unassigned peptidases	Ignisphaera aggregans	C44.UPW	C44
ARUBRA_DN828_c0_g1_i1_6	PF00310.20	GATase_2	MER0628622	family C44 unassigned peptidases	Populus euphratica	C44.UPW	C44
ARHOMBI_DN16907_c0_g1_i1_2	PF01965.23	DJ-1_PfpI	MER0733396	family C56 non-peptidase homologues	Prunus persica	C56.UNW	C56
ARUBRA_DN5867_c0_g1_i1_1	PF13507.5	GATase_5	MER0511682	family C56 non-peptidase homologues	Prunus mume	C56.UNW	C56
ARUBRA_DN1071_c0_g1_i1_2	PF01965.23	DJ-1_PfpI	MER0733395	family C56 non-peptidase homologues	Prunus persica	C56.UNW	C56

ARUBRA_DN23412_c0_g1_i1_1	PF01965.23	DJ-1_PfpI	MER0570317	family C56 non-peptidase homologues	Cucumis sativus	C56.UNW	C56
ARHOMBI_DN13057_c0_g1_i1_1	PF02338.18	OTU	MER0622165	OTU2 peptidase		C85.008	C85A
ARUBRA_DN10864_c0_g1_i1_2	PF02338.18	OTU	MER0546486	OTU2 peptidase	Saccharomyces cerevisiae}-type)	C85.008	C85A
ARHOMBI_DN3049_c0_g1_i1_5	PF02338.18	OTU	MER0744567	subfamily C85B unassigned peptidases	Prunus persica	C85.UPB	C85B
ARUBRA_DN23541_c0_g1_i1_3	PF05903.13	Peptidase_C97	MER0636972	family C97 unassigned peptidases	Nicotiana sylvestris	C97.UPW	C97
ARHOMBI_DN13880_c0_g1_i1_4	PF00079.19	Serpin	MER0756064	AtSerpin1	Arabidopsis thaliana-Vitis vinifera	I04.087	I04
ARHOMBI_DN22144_c0_g1_i1_6	PF00079.19	Serpin	MER0758854	AtSerpin1	Arabidopsis thaliana-Morus notabilis	I04.087	I04
ARHOMBI_DN2725_c0_g1_i1_2	PF00079.19	Serpin	MER0180116	AtSerpin1	Arabidopsis thaliana-Ricinus communis	I04.087	I04
ARUBRA_DN43_c0_g2_i1_6	PF02704.13	GASA	MER0526833	family I8 unassigned peptidase inhibitors	Oryza brachyantha	I08.UPW	I08
ARUBRA_DN4751_c0_g1_i2_6	PF00187.18	Chitin_bind_1	MER0449312	family I8 unassigned peptidase inhibitors	Tarenaya hassleriana	I08.UPW	I08
ARHOMBI_DN4937_c0_g3_i1_5	PF05922.15	Inhibitor_I9	MER0628798	family I9 unassigned peptidase inhibitors	Populus euphratica	I09.UPW	I09
ARHOMBI_DN5986_c0_g1_i2_6	PF00403.25	HMA	MER0592272	family I13 unassigned peptidase inhibitors	Cicer arietinum	I13.UPW	I13
ARHOMBI_DN3992_c0_g1_i1_6			MER0642455	family I15 unassigned peptidase inhibitors	Musa acuminata	I15.UPW	I15
ARUBRA_DN3345_c0_g2_i1_6			MER0458007	family I15 unassigned peptidase inhibitors	Setaria italica	I15.UPW	I15
ARHOMBI_DN6080_c1_g1_i1_1	PF16845.4	SQAPI	MER0178254	phytocystatin	Ricinus communis	I25.014	I25B
ARHOMBI_DN6132_c0_g5_i1_3	PF16845.4	SQAPI	MER0628337	phytocystatin	Populus euphratica	I25.014	I25B
ARUBRA_DN3020_c0_g1_i1_1	PF16845.4	SQAPI	MER0622052	subfamily I25B unassigned peptidase inhibitors	Vitis vinifera	I25.UPB	I25B
ARUBRA_DN4799_c0_g1_i1_4	PF16845.4	SQAPI	MER0172552	subfamily I25B unassigned peptidase inhibitors	Vitis vinifera	I25.UPB	I25B
ARUBRA_DN18865_c0_g1_i1_4			MER0583275	family I34 unassigned peptidase inhibitors		I34.UPW	I34
ARUBRA_DN5778_c0_g1_i1_4	PF03009.16	GDPD	MER0604943	family I71 unassigned peptidase inhibitors	Cryptosporidium parvum	I71.UPW	I71
ARUBRA_DN981_c0_g1_i1_2			MER0571692	family I87 unassigned peptidase inhibitors	Cucumis melo	I87.UPW	I87

ARHOMBI_DN1734_c0_g1_i1_3	PF01145.24	Band_7	MER0803110	family I87 unassigned peptidase inhibitors	Erythranthe guttata	I87.UPW	I87
ARUBRA_DN1256_c0_g2_i1_1	PF01145.24	Band_7	MER0680924	family I87 unassigned peptidase inhibitors	Beta vulgaris	I87.UPW	I87
ARUBRA_DN11134_c0_g1_i1_6	PF01145.24	Band_7	MER0808409	family I87 unassigned peptidase inhibitors	Medicago truncatula	I87.UPW	I87
ARUBRA_DN12858_c0_g1_i1_4	PF01145.24	Band_7	MER0809431	family I87 unassigned peptidase inhibitors	Brassica oleracea	I87.UPW	I87
ARUBRA_DN19640_c0_g1_i1_4	PF01145.24	Band_7	MER0517269	family I87 unassigned peptidase inhibitors	Glycine max	I87.UPW	I87
ARUBRA_DN7713_c0_g2_i1_1	PF01145.24	Band_7	MER0797839	family I87 unassigned peptidase inhibitors	Amborella trichopoda	I87.UPW	I87
ARHOMBI_DN20074_c0_g1_i1_1	PF01433.19	Peptidase_M1	MER1182093	family M1 unassigned peptidases	Corchorus capsularis	M01.UPW	M01
ARHOMBI_DN2375_c0_g1_i1_6			MER0412570	family M1 unassigned peptidases	Solanum tuberosum	M01.UPW	M01
ARHOMBI_DN25003_c0_g1_i1_6	PF01433.19	Peptidase_M1	MER0484433	family M1 unassigned peptidases	Tarenaya hassleriana	M01.UPW	M01
ARHOMBI_DN4645_c0_g2_i1_4	PF01433.19	Peptidase_M1	MER1116733	family M1 unassigned peptidases	Brachypodium distachyon	M01.UPW	M01
ARHOMBI_DN4645_c1_g1_i1_2	PF01433.19	Peptidase_M1	MER0812872	family M1 unassigned peptidases	Gossypium raimondii	M01.UPW	M01
ARHOMBI_DN8832_c0_g1_i1_6	PF01433.19	Peptidase_M1	MER0336326	family M1 unassigned peptidases	Sorghum bicolor	M01.UPW	M01
ARUBRA_DN18651_c0_g1_i1_6			MER0135621	family M1 unassigned peptidases	Populus trichocarpa	M01.UPW	M01
ARUBRA_DN2825_c0_g1_i1_4			MER0412570	family M1 unassigned peptidases	Solanum tuberosum	M01.UPW	M01
ARUBRA_DN4026_c0_g1_i1_5	PF01433.19	Peptidase_M1	MER0413560	family M1 unassigned peptidases	Solanum lycopersicum	M01.UPW	M01
ARHOMBI_DN19654_c0_g1_i1_2			MER0628637	subfamily M3A non-peptidase homologues	Populus euphratica	M03.UNA	M03A
ARHOMBI_DN24575_c0_g1_i1_1	PF01432.19	Peptidase_M3	MER0660426	subfamily M3A non-peptidase homologues	Eucalyptus grandis	M03.UNA	M03A
ARHOMBI_DN17898_c0_g1_i1_3	PF01432.19	Peptidase_M3	MER0817958	subfamily M3A unassigned peptidases	Prunus persica	M03.UPA	M03A
ARUBRA_DN20709_c0_g1_i1_5	PF01432.19	Peptidase_M3	MER0817154	subfamily M3A unassigned peptidases	Morus notabilis	M03.UPA	M03A
ARUBRA_DN7712_c0_g1_i1_6	PF13646.5	HEAT_2	MER1206231	subfamily M10A unassigned peptidases	Parasteatoda tepidariorum	M10.UPA	M10A
ARUBRA_DN6882_c0_g1_i1_3	PF00023.29	Ank	MER0263582	family M13 non-peptidase homologues	Pteropus vampyrus	M13.UNW	M13
ARUBRA_DN5666_c0_g1_i1_2	PF09440.9	eIF3_N	MER1224224	family M13 unassigned peptidases	Piromyces sp. E2	M13.UPW	M13

ARUBRA_DN12715_c0_g1_i1_2	PF13620.5	CarboxypepD_reg	MER0469406	subfamily M14B non-peptidase homologues	Brevundimonas sp. BAL3	M14.UNB	M14B
ARUBRA_DN23248_c0_g1_i1_5	PF00069.24	Pkinase	MER1154309	subfamily M14B non-peptidase homologues	Strongylocentrotus purpuratus	M14.UNB	M14B
ARHOMBI_DN4083_c0_g1_i1_6	PF05193.20	Peptidase_M16_C	MER0411679	ubiquinol-cytochrome c reductase core protein domain 2	Nicotiana benthamiana	M16.981	M16B
ARUBRA_DN4588_c0_g1_i2_1	PF05193.20	Peptidase_M16_C	MER0628559	subfamily M16A non-peptidase homologues	Populus euphratica	M16.UNA	M16A
ARUBRA_DN568_c0_g1_i1_3	PF05193.20	Peptidase_M16_C	MER0579826	subfamily M16A non-peptidase homologues		M16.UNA	M16A
ARHOMBI_DN16223_c0_g1_i1_5	PF00675.19	Peptidase_M16	MER0123729	subfamily M16B non-peptidase homologues	Vitis vinifera	M16.UNB	M16B
ARUBRA_DN9681_c0_g1_i1_1	PF05193.20	Peptidase_M16_C	MER0659899	subfamily M16B non-peptidase homologues	Eucalyptus grandis	M16.UNB	M16B
ARHOMBI_DN3185_c0_g1_i1_4	PF05193.20	Peptidase_M16_C	MER0922066	subfamily M16B non-peptidase homologues	Glycine soja	M16.UNB	M16B
ARUBRA_DN12697_c0_g1_i1_5	PF00675.19	Peptidase_M16	MER0592993	subfamily M16B non-peptidase homologues	Cicer arietinum	M16.UNB	M16B
ARUBRA_DN10159_c0_g1_i1_5	PF00675.19	Peptidase_M16	MER0923033	subfamily M16B unassigned peptidases	Gossypium arboreum	M16.UPB	M16B
ARHOMBI_DN8139_c0_g1_i1_2	PF05193.20	Peptidase_M16_C	MER0920360	subfamily M16C unassigned peptidases	Theobroma cacao	M16.UPC	M16C
ARUBRA_DN6384_c0_g1_i1_5	PF08367.10	M16C_assoc	MER0588858	subfamily M16C unassigned peptidases	Citrus sinensis	M16.UPC	M16C
ARHOMBI_DN15373_c0_g1_i1_5	PF00883.20	Peptidase_M17	MER0659646	leucyl aminopeptidase	Eucalyptus grandis	M17.002	M17
ARUBRA_DN4925_c0_g1_i1_4	PF00883.20	Peptidase_M17	MER0659646	leucyl aminopeptidase	Eucalyptus grandis	M17.002	M17
ARUBRA_DN6181_c0_g1_i1_5	PF01592.15	NifU_N	MER0474067	PepB aminopeptidase	Ceratitis capitata	M17.004	M17
ARHOMBI_DN8440_c0_g1_i1_5	PF02127.14	Peptidase_M18	MER0588432	At5g60160	Arabidopsis thaliana})-like peptidase	M18.A01	M18
ARUBRA_DN22748_c0_g1_i1_3	PF02127.14	Peptidase_M18	MER0901680	family M18 unassigned peptidases	Juglans regia	M18.UPW	M18
ARUBRA_DN12629_c0_g1_i1_4			MER0550674	subfamily M20A unassigned peptidases	Malus domestica	M20.UPA	M20A
ARUBRA_DN1745_c0_g2_i1_1			MER0621905	subfamily M20A unassigned peptidases	Vitis vinifera	M20.UPA	M20A
ARUBRA_DN20085_c0_g1_i1_4			MER0803824	subfamily M20A unassigned peptidases	Populus trichocarpa	M20.UPA	M20A
ARHOMBI_DN26305_c0_g1_i1_3			MER0547052	subfamily M20F unassigned peptidases	Fragaria vesca	M20.UPF	M20F
ARHOMBI_DN3625_c0_g1_i1_3	PF00557.23	Peptidase_M24	MER0628925	Xaa-Pro dipeptidase	eukaryote-type	M24.007	M24B

ARUBRA_DN4512_c0_g1_i1_2			MER0170633	proliferation-association protein 1	Medicago truncatula	M24.973	M24X
ARUBRA_DN18680_c0_g1_i1_3			MER0176444	proliferation-association protein 1	Ricinus communis	M24.973	M24X
ARHOMBI_DN8750_c0_g1_i1_3	PF01321.17	Creatinase_N	MER0411863	subfamily M24B non-peptidase homologues	Nicotiana benthamiana	M24.UNB	M24B
ARHOMBI_DN2706_c0_g1_i1_5	PF00557.23	Peptidase_M24	MER0481621	subfamily M24B unassigned peptidases	Populus trichocarpa	M24.UPB	M24B
ARHOMBI_DN5741_c0_g1_i1_3	PF03868.14	Ribosomal_L6e_N	MER0512373	subfamily M24B unassigned peptidases	Saimiri boliviensis	M24.UPB	M24B
ARUBRA_DN17285_c0_g1_i1_2	PF16189.4	Creatinase_N_2	MER0032950	subfamily M24B unassigned peptidases	Magnaporthe grisea	M24.UPB	M24B
ARHOMBI_DN9078_c0_g1_i1_6	PF05450.14	Nicastrin	MER0637502	family M28 non-peptidase homologues	Nicotiana sylvestris	M28.UNW	M28X
ARUBRA_DN5089_c0_g1_i1_5			MER0572089	family M28 non-peptidase homologues	Cucumis melo	M28.UNW	M28X
ARUBRA_DN6330_c0_g1_i1_4	PF01979.19	Amidohydro_1	MER0585097	family M38 non-peptidase homologues	Glycine max	M38.UNW	M38
ARHOMBI_DN1643_c0_g1_i1_5	PF00004.28	AAA	MER0412697	family M41 non-peptidase homologues	Solanum tuberosum	M41.UNW	M41
ARHOMBI_DN1692_c0_g1_i1_5	PF00004.28	AAA	MER0286041	family M41 non-peptidase homologues	Echinococcus multilocularis	M41.UNW	M41
ARHOMBI_DN17553_c0_g1_i1_3	PF00004.28	AAA	MER0413614	family M41 non-peptidase homologues	Solanum lycopersicum	M41.UNW	M41
ARHOMBI_DN17617_c0_g1_i1_1	PF00004.28	AAA	MER0273571	family M41 non-peptidase homologues	Paenibacillus mucilaginosus	M41.UNW	M41
ARHOMBI_DN1841_c0_g2_i1_2	PF00004.28	AAA	MER0413614	family M41 non-peptidase homologues	Solanum lycopersicum	M41.UNW	M41
ARUBRA_DN1422_c0_g2_i1_2	PF04212.17	MIT	MER0258487	family M41 non-peptidase homologues	Loxodonta africana	M41.UNW	M41
ARHOMBI_DN5374_c1_g1_i1_6	PF00004.28	AAA	MER0278187	family M41 non-peptidase homologues	Glossina morsitans	M41.UNW	M41
ARHOMBI_DN5420_c0_g1_i1_2	PF00004.28	AAA	MER0278187	family M41 non-peptidase homologues	Glossina morsitans	M41.UNW	M41
ARUBRA_DN4305_c0_g2_i1_6	PF00004.28	AAA	MER0413614	family M41 non-peptidase homologues	Solanum lycopersicum	M41.UNW	M41
ARUBRA_DN4281_c0_g1_i1_1	PF00004.28	AAA	MER0278187	family M41 non-peptidase homologues	Glossina morsitans	M41.UNW	M41
ARUBRA_DN4321_c0_g2_i1_1	PF02933.16	CDC48_2	MER0413614	family M41 non-peptidase homologues	Solanum lycopersicum	M41.UNW	M41
ARUBRA_DN4889_c0_g1_i1_6	PF00004.28	AAA	MER0278187	family M41 non-peptidase homologues	Glossina morsitans	M41.UNW	M41

ARHOMBI_DN23037_c0_g1_i1_6	PF01434.17	Peptidase_M41	MER0172803	family M41 unassigned peptidases	Vitis vinifera	M41.UPW	M41
ARHOMBI_DN5630_c0_g2_i1_5	PF01435.17	Peptidase_M48	MER0142399	farnesylated-protein converting enzyme 1	Vitis vinifera	M48.003	M48A
ARUBRA_DN21700_c0_g1_i1_4	PF00571.27	CBS	MER0236128	subfamily M50B non-peptidase homologues	Thermus scotoductus	M50.UNB	M50B
ARUBRA_DN4277_c0_g1_i1_2	PF00571.27	CBS	MER0231653	family M50 non-peptidase homologues	Desulfovibrio aespoeensis	M50.UNW	M50
ARHOMBI_DN2999_c0_g1_i1_4	PF01398.20	JAB	MER0551083	Mername-AA168 protein	Malus domestica	M67.971	M67X
ARHOMBI_DN1703_c0_g1_i1_6	PF01398.20	JAB	MER0571370	eukaryotic translation initiation factor 3 subunit F	Cucumis melo	M67.974	M67X
ARUBRA_DN10605_c0_g1_i1_2	PF11543.7	UN_NPL4	MER0393371	subfamily M67A non-peptidase homologues	Dictyostelium fasciculatum	M67.UNA	M67A
ARUBRA_DN21569_c0_g1_i1_4	PF01398.20	JAB	MER0905094	subfamily M67A unassigned peptidases	Theobroma cacao	M67.UPA	M67A
ARUBRA_DN19450_c0_g1_i1_4			MER0411906	subfamily S1A non-peptidase homologues	Nicotiana benthamiana	S01.UNA	S01A
ARUBRA_DN25464_c0_g1_i1_1	PF00004.28	AAA	MER0411906	subfamily S1A non-peptidase homologues	Nicotiana benthamiana	S01.UNA	S01A
ARUBRA_DN16568_c0_g1_i1_3	PF01344.24	Kelch_1	MER0366613	subfamily S1A unassigned peptidases	Bos taurus	S01.UPA	S01A
ARHOMBI_DN7219_c0_g1_i1_3			MER0975537	ARA12 peptidase	Ricinus communis	S08.112	S08A
ARUBRA_DN18006_c0_g1_i1_4	PF00082.21	Peptidase_S8	MER0975537	ARA12 peptidase	Ricinus communis	S08.112	S08A
ARHOMBI_DN11662_c0_g1_i1_4			MER0546828	At3g14067	Arabidopsis thaliana-Fragaria vesca	S08.A28	S08A
ARHOMBI_DN11775_c0_g1_i1_1			MER0024767	At1g32980	Arabidopsis thaliana-Arabidopsis thaliana	S08.A31	S08A
ARUBRA_DN17897_c0_g1_i1_5	PF00082.21	Peptidase_S8	MER0039101	At1g32980	Arabidopsis thaliana-Arachis hypogaea	S08.A31	S08A
ARHOMBI_DN3796_c0_g1_i1_3	PF00082.21	Peptidase_S8	MER0177896	At4g34980	Arabidopsis thaliana-Vitis vinifera	S08.A39	S08A
ARHOMBI_DN20638_c0_g1_i1_2			MER0551610	oligopeptidase B	Malus domestica	S09.010	S09A
ARHOMBI_DN4296_c0_g1_i1_1	PF00326.20	Peptidase_S9	MER0639469	glutamyl endopeptidase C	Nelumbo nucifera	S09.021	S09D
ARUBRA_DN2819_c0_g1_i1_3			MER0536974	At5g23530	Arabidopsis thaliana-Glycine max	S09.A10	S09C
ARUBRA_DN12422_c0_g1_i1_2	PF07859.12	Abhydrolase_3	MER0500863	At5g62180	Arabidopsis thaliana-Prunus mume	S09.A14	S09X

ARHOMBI_DN17996_c0_g1_i1_4			MER0551592	At1g26120	Malus domestica	S09.A21	S09X
ARHOMBI_DN2479_c0_g1_i1_1			MER0499110	At3g47560	Arabidopsis thaliana-Prunus mume	S09.A31	S09X
ARHOMBI_DN3938_c0_g1_i1_4	PF02230.15	Abhydrolase_2	MER0209135	AT5G20060 protein	Arabidopsis thaliana-Ricinus communis	S09.A56	S09X
ARUBRA_DN9538_c0_g1_i1_1	PF12146.7	Hydrolase_4	MER0621993	F14F18_80 protein	Arabidopsis thaliana-Vitis vinifera	S09.A58	S09B
ARHOMBI_DN12388_c0_g1_i1_3	PF00400.31	WD40	MER0149649	family S9 non-peptidase homologues	Ciona intestinalis	S09.UNW	S09X
ARHOMBI_DN12998_c0_g1_i1_2	PF00400.31	WD40	MER0156555	family S9 non-peptidase homologues	Dipodomys ordii	S09.UNW	S09X
ARHOMBI_DN13808_c0_g1_i1_5	PF00400.31	WD40	MER0129460	family S9 non-peptidase homologues	Pedobacter heparinus	S09.UNW	S09X
ARHOMBI_DN16963_c0_g2_i1_3	PF01738.17	DLH	MER0061658	family S9 non-peptidase homologues	Burkholderia xenovorans	S09.UNW	S09X
ARHOMBI_DN27276_c0_g1_i1_4			MER0183170	family S9 non-peptidase homologues	Ochotona princeps	S09.UNW	S09X
ARUBRA_DN7424_c0_g1_i1_6			MER0183210	family S9 non-peptidase homologues	Ochotona princeps	S09.UNW	S09X
ARHOMBI_DN4778_c0_g1_i1_3	PF00400.31	WD40	MER0158050	family S9 non-peptidase homologues	Dipodomys ordii	S09.UNW	S09X
ARHOMBI_DN5210_c0_g1_i1_5	PF00400.31	WD40	MER0057464	family S9 non-peptidase homologues	Thermobispora bispora	S09.UNW	S09X
ARHOMBI_DN5429_c0_g1_i1_2	PF01738.17	DLH	MER0209990	family S9 non-peptidase homologues	Vitis vinifera	S09.UNW	S09X
ARUBRA_DN4545_c0_g1_i1_5	PF01738.17	DLH	MER0210444	family S9 non-peptidase homologues	Vitis vinifera	S09.UNW	S09X
ARHOMBI_DN6286_c0_g1_i1_6			MER0159213	family S9 non-peptidase homologues	Nostoc sp. PCC 7120	S09.UNW	S09X
ARHOMBI_DN8777_c0_g1_i1_4	PF00400.31	WD40	MER0156766	family S9 non-peptidase homologues	Dipodomys ordii	S09.UNW	S09X
ARUBRA_DN20269_c0_g1_i1_6	PF00400.31	WD40	MER0156766	family S9 non-peptidase homologues	Dipodomys ordii	S09.UNW	S09X
ARUBRA_DN3962_c0_g1_i1_6	PF00400.31	WD40	MER0156586	family S9 non-peptidase homologues	Dipodomys ordii	S09.UNW	S09X
ARUBRA_DN5364_c0_g1_i1_3	PF00400.31	WD40	MER0146162	family S9 non-peptidase homologues	Ciona savignyi	S09.UNW	S09X
ARUBRA_DN7820_c0_g1_i1_3			MER0161056	family S9 non-peptidase homologues	Gemmata obscuriglobus	S09.UNW	S09X

ARUBRA_DN8665_c0_g1_i1_5	PF00400.31	WD40	MER0156555	family S9 non-peptidase homologues	Dipodomys ordii	S09.UNW	S09X
ARUBRA_DN9810_c0_g1_i1_4	PF01738.17	DLH	MER0092863	family S9 non-peptidase homologues	Polynucleobacter necessarius	S09.UNW	S09X
ARHOMBI_DN2477_c0_g2_i1_4	PF00930.20	DPPIV_N	MER0192406	subfamily S9B unassigned peptidases	Sorghum bicolor	S09.UPB	S09B
ARHOMBI_DN19693_c0_g1_i1_6	PF07859.12	Abhydrolase_3	MER0511717	subfamily S9C unassigned peptidases	Prunus mume	S09.UPC	S09C
ARUBRA_DN4715_c0_g1_i1_5	PF00326.20	Peptidase_S9	MER1300318	subfamily S9C unassigned peptidases	Quercus suber	S09.UPC	S09C
ARUBRA_DN18800_c0_g2_i1_4	PF07859.12	Abhydrolase_3	MER0621926	subfamily S9C unassigned peptidases	Vitis vinifera	S09.UPC	S09C
ARUBRA_DN19739_c0_g2_i1_3	PF07859.12	Abhydrolase_3	MER0592815	subfamily S9C unassigned peptidases	Cicer arietinum	S09.UPC	S09C
ARUBRA_DN21696_c0_g1_i1_3	PF07859.12	Abhydrolase_3	MER0588552	subfamily S9C unassigned peptidases	Citrus sinensis	S09.UPC	S09C
ARHOMBI_DN3877_c0_g1_i1_1	PF02230.15	Abhydrolase_2	MER0588084	family S9 unassigned peptidases	Citrus sinensis	S09.UPW	S09X
ARHOMBI_DN478_c0_g2_i1_6	PF00756.19	Esterase	MER0651049	family S9 unassigned peptidases	Jatropha curcas	S09.UPW	S09X
ARUBRA_DN162_c0_g1_i1_1	PF12697.6	Abhydrolase_6	MER0650695	family S9 unassigned peptidases	Jatropha curcas	S09.UPW	S09X
ARUBRA_DN18867_c0_g1_i1_5	PF00400.31	WD40	MER0156515	family S9 unassigned peptidases	Dipodomys ordii	S09.UPW	S09X
ARUBRA_DN4594_c0_g2_i1_4	PF00450.21	Peptidase_S10	MER0592987	serine carboxypeptidase C	Cicer arietinum	S10.004	S10
ARUBRA_DN16761_c0_g1_i1_6	PF00450.21	Peptidase_S10	MER0539743	serine carboxypeptidase D	Sesamum indicum	S10.005	S10
ARUBRA_DN2627_c0_g1_i1_2	PF00450.21	Peptidase_S10	MER0660303	serine carboxypeptidase III	Eucalyptus grandis	S10.009	S10
ARUBRA_DN22266_c0_g1_i1_1	PF00450.21	Peptidase_S10	MER0177780	OsBISCPL1-type putative carboxypeptidase	Ricinus communis	S10.017	S10
ARUBRA_DN4035_c0_g2_i1_1	PF00450.21	Peptidase_S10	MER0581564	At4g30810	Arabidopsis thaliana-	S10.A32	S10
ARHOMBI_DN6202_c0_g1_i2_4	PF00450.21	Peptidase_S10	MER0551973	At3g63470	Arabidopsis thaliana-Malus domestica	S10.A41	S10
ARUBRA_DN4832_c0_g1_i1_2	PF00450.21	Peptidase_S10	MER0637561	At3g63470	Arabidopsis thaliana-Nicotiana sylvestris	S10.A41	S10
ARUBRA_DN4961_c0_g1_i2_4	PF00450.21	Peptidase_S10	MER0551973	At3g63470	Arabidopsis thaliana-Malus domestica	S10.A41	S10
ARHOMBI_DN25343_c0_g1_i1_2	PF00450.21	Peptidase_S10	MER0942946	family S10 unassigned peptidases	Erythranthe guttata	S10.UPW	S10
ARUBRA_DN4813_c0_g1_i1_1	PF00109.25	ketoacyl-synt	MER0947272	family S10 unassigned peptidases	Brassica napus	S10.UPW	S10
ARHOMBI_DN430_c0_g1_i1_3	PF00574.22	CLP_protease	MER0639468	peptidase Clp	Nelumbo nucifera	S14.001	S14
ARHOMBI_DN49_c0_g2_i1_6	PF00574.22	CLP_protease	MER0663832	ClpP4 peptidase	Elaeis guineensis	S14.010	S14
ARUBRA_DN290_c0_g1_i1_5	PF00574.22	CLP_protease	MER0171106	At5g23140	Arabidopsis thaliana})-type peptidase	S14.A02	S14

ARHOMBI_DN4244_c0_g1_i2_2	PF00574.22	CLP_protease	MER1012784	family S14 non-peptidase homologues	Prunus persica	S14.UNW	S14
ARUBRA_DN19563_c0_g1_i1_5	PF05577.11	Peptidase_S28	MER0650784	AT5g65760	Arabidopsis thaliana-Jatropha curcas	S28.A02	S28
ARUBRA_DN13110_c0_g1_i1_1	PF13419.5	HAD_2	MER0201475	cytosolic epoxide hydrolase		S33.973	S33
ARHOMBI_DN24802_c0_g1_i1_2	PF16113.4	ECH_2	MER0663876	family S33 non-peptidase homologues	Elaeis guineensis	S33.UNW	S33
ARHOMBI_DN5393_c0_g1_i1_1	PF00561.19	Abhydrolase_1	MER0584079	family S33 non-peptidase homologues	Cicer arietinum	S33.UNW	S33
ARUBRA_DN784_c0_g2_i1_6	PF12697.6	Abhydrolase_6	MER0570161	family S33 non-peptidase homologues	Cucumis sativus	S33.UNW	S33
ARUBRA_DN10200_c0_g1_i1_2	PF00561.19	Abhydrolase_1	MER0584079	family S33 non-peptidase homologues	Cicer arietinum	S33.UNW	S33
ARUBRA_DN11129_c0_g1_i1_5			MER0579732	family S33 non-peptidase homologues		S33.UNW	S33
ARUBRA_DN17439_c0_g1_i1_4	PF16113.4	ECH_2	MER0663876	family S33 non-peptidase homologues	Elaeis guineensis	S33.UNW	S33
ARHOMBI_DN10954_c0_g1_i1_5			MER0622092	family S33 unassigned peptidases	Vitis vinifera	S33.UPW	S33
ARHOMBI_DN3967_c0_g1_i1_1	PF13419.5	HAD_2	MER0230625	family S33 unassigned peptidases	Micromonospora sp. L5	S33.UPW	S33
ARUBRA_DN4582_c0_g1_i1_5	PF00561.19	Abhydrolase_1	MER0588391	family S33 unassigned peptidases	Citrus sinensis	S33.UPW	S33
ARUBRA_DN1522_c0_g1_i1_5	PF00561.19	Abhydrolase_1	MER1336005	family S33 unassigned peptidases	Vigna radiata	S33.UPW	S33
ARUBRA_DN15584_c0_g1_i1_1			MER0627781	family S33 unassigned peptidases	Populus euphratica	S33.UPW	S33
ARUBRA_DN2934_c0_g2_i2_4	PF05670.12	DUF814	MER0599089	family S33 unassigned peptidases	Echinops telfairi	S33.UPW	S33
ARUBRA_DN7781_c0_g1_i1_6	PF02817.16	E3_binding	MER0094490	family S33 unassigned peptidases	Sinorhizobium medicae	S33.UPW	S33
ARHOMBI_DN20386_c0_g1_i1_1	PF00378.19	ECH_1	MER1072342	subfamily S49C non-peptidase homologues	Geomicrobium sp. JCM 19055	S49.UNC	S49C
ARHOMBI_DN6745_c0_g1_i1_6	PF00378.19	ECH_1	MER1073240	subfamily S49C non-peptidase homologues	Acinetobacter bohemicus	S49.UNC	S49C
ARUBRA_DN7051_c0_g1_i1_2	PF00378.19	ECH_1	MER1073240	subfamily S49C non-peptidase homologues	Acinetobacter bohemicus	S49.UNC	S49C
ARUBRA_DN24391_c0_g1_i1_1			MER0681183	RBL2 peptidase	Beta vulgaris	S54.015	S54
ARUBRA_DN145_c0_g1_i1_4			MER1082728	family S54 non-peptidase homologues	Vitis vinifera	S54.UNW	S54
ARHOMBI_DN3256_c0_g1_i1_1	PF00153.26	Mito_carr	MER1363300	family S54 non-peptidase homologues	Thecamonas trahens	S54.UNW	S54
ARHOMBI_DN6225_c0_g2_i1_5	PF00153.26	Mito_carr	MER1363300	family S54 non-peptidase homologues	Thecamonas trahens	S54.UNW	S54
ARUBRA_DN3241_c0_g1_i1_4	PF00153.26	Mito_carr	MER1363300	family S54 non-peptidase homologues	Thecamonas trahens	S54.UNW	S54

ARHOMBI_DN4867_c0_g1_i1_5	PF00227.25	Proteasome	MER0172841	proteasome subunit beta1c	Ricinus communis	T01.010	T01A
ARUBRA_DN8181_c0_g1_i1_4	PF10584.8	Proteasome_A_N	MER0411684	proteasome subunit alpha 6	Nicotiana benthamiana	T01.971	T01A
ARUBRA_DN17228_c1_g1_i1_1	PF10584.8	Proteasome_A_N	MER0570712	proteasome subunit alpha 2	Cucumis sativus	T01.972	T01A
ARUBRA_DN1938_c0_g1_i1_1	PF10584.8	Proteasome_A_N	MER0079890	proteasome subunit alpha 7	Nicotiana benthamiana	T01.974	T01A
ARUBRA_DN4073_c0_g1_i1_2	PF10584.8	Proteasome_A_N	MER0461296	proteasome subunit alpha 1	Glycine max	T01.976	T01A
ARUBRA_DN6971_c0_g1_i1_6	PF10584.8	Proteasome_A_N	MER0020043	proteasome subunit alpha 3	Nicotiana tabacum	T01.977	T01A
ARUBRA_DN18881_c0_g1_i1_2	PF10584.8	Proteasome_A_N	MER0505546	Mername-AA242 peptidase homologue	Mus musculus-Prunus mume	T01.995	T01A
ARUBRA_DN2923_c0_g2_i1_5	PF00227.25	Proteasome	MER0173164	proteasome subunit beta2	Drosophila melanogaster-Ricinus communis	T01.A02	T01A
ARHOMBI_DN4848_c0_g1_i1_6	PF00227.25	Proteasome	MER0126199	PBE2 g.p.	Arabidopsis thaliana-Vitis vinifera	T01.A10	T01A
ARUBRA_DN4784_c0_g2_i3_2	PF00227.25	Proteasome	MER0588910	psmB4-2 g.p.	Dictyostelium discoideum-Citrus sinensis	T01.A13	T01X
ARUBRA_DN881_c0_g1_i1_1	PF00227.25	Proteasome	MER0639619	subfamily T1A non-peptidase homologues	Nelumbo nucifera	T01.UNA	T01A
ARUBRA_DN113_c0_g1_i2_3	PF00227.25	Proteasome	MER1090404	subfamily T1A non-peptidase homologues	Hevea brasiliensis	T01.UNA	T01A
ARUBRA_DN934_c0_g1_i1_3	PF00227.25	Proteasome	MER1088634	subfamily T1A non-peptidase homologues	Gossypium raimondii	T01.UNA	T01A
ARHOMBI_DN6139_c0_g1_i1_4	PF10584.8	Proteasome_A_N	MER0576836	subfamily T1A unassigned peptidases		T01.UPA	T01A
ARUBRA_DN4844_c0_g1_i1_2	PF03297.14	Ribosomal_S25	MER1365022	family T3 non-peptidase homologues	Thecamonas trahens	T03.UNW	T03
ARHOMBI_DN3876_c0_g1_i1_6	PF14226.5	DIOX_N	MER0576457	family T7 unassigned peptidases		T07.UPW	T07
ARHOMBI_DN4317_c0_g1_i1_2	PF00155.20	Aminotran_1_2	MER0501945	family U32 unassigned peptidases	Chthonomonas calidirosea	U32.UPW	U32

Supplementary Table S12: Identified peptidases in Corylus pollen

Protein IDs	Pfam accession	Pfam family name	Merops accession	Merops family	source organism	Merops peptidase ID	Merops subfamily
TRINITY_DN10467_c0_g1_i1_1	PF14543.5	TAXi_N	MER0184554	nepenthesin	Vitis vinifera	A01.040	A01B
TRINITY_DN10590_c0_g2_i1_2	PF14543.5	TAXi_N	MER0372282	CDR1 peptidase	Prunus persica	A01.069	A01B
TRINITY_DN1993_c0_g1_i1_1			MER0511659	CDR1 peptidase	Prunus mume	A01.069	A01B
TRINITY_DN10194_c0_g1_i1_3	PF00026.22	Asp	MER0398222	At1g62290	Gossypium raimondii	A01.A02	A01A
TRINITY_DN10241_c0_g2_i1_1	PF00026.22	Asp	MER0693223	At1g62290	Glycine soja	A01.A02	A01A
TRINITY_DN11009_c0_g1_i1_1	PF14541.5	TAXi_C	MER0535750	At3g12700	Sesamum indicum	A01.A30	A01B
TRINITY_DN1283_c0_g1_i1_3	PF00188.25	CAP	MER0228949	subfamily A1A unassigned peptidases	Debaryomyces hansenii	A01.UPA	A01A
TRINITY_DN6029_c0_g1_i1_1	PF00026.22	Asp	MER1131201	subfamily A1A unassigned peptidases	Populus trichocarpa	A01.UPA	A01A
TRINITY_DN10179_c0_g1_i1_1	PF04043.14	PMEI	MER0570148	family A2 unassigned peptidases	Cucumis sativus	A02.UPW	A02X
TRINITY_DN6919_c0_g2_i1_3	PF01095.18	Pectinesterase	MER0570148	family A2 unassigned peptidases	Cucumis sativus	A02.UPW	A02X
TRINITY_DN9802_c0_g1_i3_2	PF01095.18	Pectinesterase	MER0572141	family A2 unassigned peptidases	Cucumis melo	A02.UPW	A02X
TRINITY_DN9853_c0_g2_i1_2	PF01095.18	Pectinesterase	MER0572141	family A2 unassigned peptidases	Cucumis melo	A02.UPW	A02X
TRINITY_DN10448_c0_g1_i2_3	PF04258.12	Peptidase_A22B	MER0143143	subfamily A22B unassigned peptidases	Vitis vinifera	A22.UPB	A22B
TRINITY_DN5112_c0_g2_i3_3	PF00240.22	ubiquitin	MER0628276	subfamily A28A unassigned peptidases	Populus euphratica	A28.UPA	A28A
TRINITY_DN10085_c0_g1_i1_3	PF12796.6	Ank_2	MER1360781	family A31 non-peptidase homologues	Thecamonas trahens	A31.UNW	A31
TRINITY_DN10206_c0_g8_i1_3	PF00069.24	Pkinase	MER1360781	family A31 non-peptidase homologues	Thecamonas trahens	A31.UNW	A31
TRINITY_DN10474_c1_g1_i1_2	PF00069.24	Pkinase	MER1360781	family A31 non-peptidase homologues	Thecamonas trahens	A31.UNW	A31
TRINITY_DN11081_c0_g1_i2_3			MER1360781	family A31 non-peptidase homologues	Thecamonas trahens	A31.UNW	A31
TRINITY_DN11146_c0_g1_i2_3	PF07714.16	Pkinase_Tyr	MER1360781	family A31 non-peptidase homologues	Thecamonas trahens	A31.UNW	A31
TRINITY_DN17813_c0_g1_i1_1	PF00069.24	Pkinase	MER1360781	family A31 non-peptidase homologues	Thecamonas trahens	A31.UNW	A31
TRINITY_DN17826_c0_g2_i1_1	PF00069.24	Pkinase	MER1360781	family A31 non-peptidase homologues	Thecamonas trahens	A31.UNW	A31
TRINITY_DN18596_c0_g1_i1_5	PF00069.24	Pkinase	MER1360781	family A31 non-peptidase homologues	Thecamonas trahens	A31.UNW	A31
TRINITY_DN18912_c0_g1_i1_2	PF00069.24	Pkinase	MER1360781	family A31 non-peptidase homologues	Thecamonas trahens	A31.UNW	A31

TRINITY_DN20973_c0_g1_i1_1	PF00069.24	Pkinase	MER1360781	family A31 non-peptidase homologues	Thecamonas trahens	A31.UNW	A31
TRINITY_DN2355_c0_g1_i1_2	PF07714.16	Pkinase_Tyr	MER1360781	family A31 non-peptidase homologues	Thecamonas trahens	A31.UNW	A31
TRINITY_DN30_c0_g1_i1_2	PF00069.24	Pkinase	MER1360781	family A31 non-peptidase homologues	Thecamonas trahens	A31.UNW	A31
TRINITY_DN4286_c0_g1_i1_4	PF00069.24	Pkinase	MER1360781	family A31 non-peptidase homologues	Thecamonas trahens	A31.UNW	A31
TRINITY_DN4765_c0_g3_i1_1	PF00069.24	Pkinase	MER1360781	family A31 non-peptidase homologues	Thecamonas trahens	A31.UNW	A31
TRINITY_DN5356_c0_g1_i1_3	PF00069.24	Pkinase	MER1360781	family A31 non-peptidase homologues	Thecamonas trahens	A31.UNW	A31
TRINITY_DN5635_c0_g1_i1_5	PF00069.24	Pkinase	MER1360781	family A31 non-peptidase homologues	Thecamonas trahens	A31.UNW	A31
TRINITY_DN6123_c0_g1_i1_4	PF00069.24	Pkinase	MER1360781	family A31 non-peptidase homologues	Thecamonas trahens	A31.UNW	A31
TRINITY_DN7127_c0_g1_i1_1	PF00069.24	Pkinase	MER1360781	family A31 non-peptidase homologues	Thecamonas trahens	A31.UNW	A31
TRINITY_DN7164_c0_g1_i2_1	PF00069.24	Pkinase	MER1360781	family A31 non-peptidase homologues	Thecamonas trahens	A31.UNW	A31
TRINITY_DN7964_c0_g4_i1_6	PF07714.16	Pkinase_Tyr	MER1360781	family A31 non-peptidase homologues	Thecamonas trahens	A31.UNW	A31
TRINITY_DN9376_c1_g3_i1_4			MER1360781	family A31 non-peptidase homologues	Thecamonas trahens	A31.UNW	A31
TRINITY_DN9503_c0_g1_i1_2	PF07714.16	Pkinase_Tyr	MER1360781	family A31 non-peptidase homologues	Thecamonas trahens	A31.UNW	A31
TRINITY_DN11279_c0_g2_i3_5	PF00112.22	Peptidase_C1	MER0660253	glycinain	Eucalyptus grandis	C01.022	C01A
TRINITY_DN9814_c0_g1_i2_2	PF00112.22	Peptidase_C1	MER0640046	cathepsin B, plant form	Nelumbo nucifera	C01.049	C01A
TRINITY_DN10303_c0_g1_i1_3	PF00112.22	Peptidase_C1	MER1161753	subfamily C1A unassigned peptidases	Juglans regia	C01.UPA	C01A
TRINITY_DN10919_c0_g1_i5_1	PF00112.22	Peptidase_C1	MER1161891	subfamily C1A unassigned peptidases	Cynara cardunculus	C01.UPA	C01A
TRINITY_DN11174_c0_g1_i5_1	PF00112.22	Peptidase_C1	MER1161383	subfamily C1A unassigned peptidases	Ziziphus jujuba	C01.UPA	C01A
TRINITY_DN11576_c1_g1_i1_2	PF00112.22	Peptidase_C1	MER0166880	subfamily C1A unassigned peptidases	Actinidia deliciosa	C01.UPA	C01A
TRINITY_DN7727_c0_g2_i1_3	PF00112.22	Peptidase_C1	MER1161346	subfamily C1A unassigned peptidases	Quercus suber	C01.UPA	C01A
TRINITY_DN8308_c0_g2_i1_2	PF00112.22	Peptidase_C1	MER1161707	subfamily C1A unassigned peptidases	Quercus suber	C01.UPA	C01A
TRINITY_DN9489_c0_g2_i1_2	PF00112.22	Peptidase_C1	MER1160989	subfamily C1A unassigned peptidases	Juglans regia	C01.UPA	C01A
TRINITY_DN10600_c0_g1_i1_5	PF04424.12	MINDY_DUB	MER0934028	FAM63B g.p.	Capsicum annuum	C115.002	C115

TRINITY_DN12921_c0_g1_i1_3			MER1170789	family C12 unassigned peptidases	Juglans regia	C12.UPW	C12
TRINITY_DN12921_c0_g1_i1_6	PF01088.20	Peptidase_C12	MER1170789	family C12 unassigned peptidases	Juglans regia	C12.UPW	C12
TRINITY_DN6323_c0_g1_i1_4	PF01650.17	Peptidase_C13	MER0691713	family C13 unassigned peptidases	Morus notabilis	C13.UPW	C13
TRINITY_DN8225_c0_g1_i1_3	PF01650.17	Peptidase_C13	MER1173236	family C13 unassigned peptidases	Vigna radiata	C13.UPW	C13
TRINITY_DN7265_c0_g2_i5_2	PF00656.21	Peptidase_C14	MER0659855	subfamily C14B unassigned peptidases	Eucalyptus grandis	C14.UPB	C14B
TRINITY_DN9010_c0_g1_i2_3	PF01470.16	Peptidase_C15	MER0584791	At1g56700		C15.A02	C15
TRINITY_DN5492_c0_g2_i1_3	PF02148.18	zf-UBP	MER0430041	deubiquitinating enzyme 14	Vitis vinifera	C19.084	C19
TRINITY_DN9214_c0_g1_i3_1	PF00240.22	ubiquitin	MER0109705	UBP6 peptidase	Vitis vinifera	C19.094	C19
TRINITY_DN294_c0_g1_i1_2	PF00443.28	UCH	MER0430051	At4g10590	Vitis vinifera	C19.A03	C19
TRINITY_DN2894_c0_g1_i1_6	PF00443.28	UCH	MER0640023	At4g30890	Nelumbo nucifera	C19.A14	C19
TRINITY_DN3113_c0_g1_i1_2	PF00443.28	UCH	MER0650391	At4g30890	Jatropha curcas	C19.A14	C19
TRINITY_DN20326_c0_g1_i1_2	PF00443.28	UCH	MER0550185	family C19 non-peptidase homologues	Malus domestica	C19.UNW	C19
TRINITY_DN2462_c0_g2_i1_2	PF00627.30	UBA	MER0552051	family C19 non-peptidase homologues	Malus domestica	C19.UNW	C19
TRINITY_DN8882_c0_g1_i3_2	PF00917.25	MATH	MER0433352	family C19 unassigned peptidases	Ricinus communis	C19.UPW	C19
TRINITY_DN12458_c0_g3_i1_3	PF00270.28	DEAD	MER0295850	family C26 non-peptidase homologues	Nematostella vectensis	C26.UNW	C26
TRINITY_DN2528_c0_g1_i2_1	PF00270.28	DEAD	MER0295850	family C26 non-peptidase homologues	Nematostella vectensis	C26.UNW	C26
TRINITY_DN6675_c0_g1_i4_2	PF00270.28	DEAD	MER0295850	family C26 non-peptidase homologues	Nematostella vectensis	C26.UNW	C26
TRINITY_DN11898_c0_g1_i1_4	PF00117.27	GATase	MER0502488	family C26 unassigned peptidases	Prunus mume	C26.UPW	C26
TRINITY_DN3450_c0_g1_i1_1	PF13507.5	GATase_5	MER0087959	family C26 unassigned peptidases	Cellvibrio japonicus	C26.UPW	C26
TRINITY_DN7736_c0_g1_i2_1	PF00988.21	CPSase_sm_chain	MER0584525	family C26 unassigned peptidases		C26.UPW	C26
TRINITY_DN14633_c0_g1_i1_2	PF01380.21	SIS	MER0176590	family C44 non-peptidase homologues	Populus trichocarpa	C44.UNW	C44
TRINITY_DN10738_c0_g1_i2_5	PF13537.5	GATase_7	MER0037116	family C44 unassigned peptidases	Solanum lycopersicum	C44.UPW	C44
TRINITY_DN11267_c0_g1_i1_2	PF12481.7	DUF3700	MER0570230	family C44 unassigned peptidases	Cucumis sativus	C44.UPW	C44
TRINITY_DN15062_c0_g1_i1_1	PF00733.20	Asn_synthase	MER0037116	family C44 unassigned peptidases	Solanum lycopersicum	C44.UPW	C44
TRINITY_DN16264_c0_g1_i1_2	PF00733.20	Asn_synthase	MER0037116	family C44 unassigned peptidases	Solanum lycopersicum	C44.UPW	C44

TRINITY_DN6495_c0_g1_i1_1	PF00156.26	Pribosyltran	MER0223378	family C44 unassigned peptidases	Ignisphaera aggregans	C44.UPW	C44
TRINITY_DN11339_c0_g1_i3_1	PF01965.23	DJ-1_PfpI	MER0511793	PfpI peptidase	Prunus mume	C56.001	C56
TRINITY_DN10618_c0_g1_i1_3	PF01965.23	DJ-1_PfpI	MER0589129	family C56 non-peptidase homologues	Citrus sinensis	C56.UNW	C56
TRINITY_DN8002_c0_g1_i1_2	PF02338.18	OTU	MER1128346	subfamily C85A unassigned peptidases	Glycine max	C85.UPA	C85A
TRINITY_DN6792_c0_g1_i2_5	PF02338.18	OTU	MER0744567	subfamily C85B unassigned peptidases	Prunus persica	C85.UPB	C85B
TRINITY_DN4761_c0_g1_i1_3	PF05903.13	Peptidase_C97	MER0660526	family C97 unassigned peptidases	Eucalyptus grandis	C97.UPW	C97
TRINITY_DN11097_c0_g1_i2_6	PF00079.19	Serpin	MER0758854	AtSerpin1	Morus notabilis	I04.087	I04
TRINITY_DN6915_c0_g2_i2_2	PF02704.13	GASA	MER0526833	family I8 unassigned peptidase inhibitors	Oryza brachyantha	I08.UPW	I08
TRINITY_DN9357_c0_g1_i1_4			MER0609806	family I8 unassigned peptidase inhibitors	Xenopus tropicalis	I08.UPW	I08
TRINITY_DN11161_c0_g2_i1_1	PF05922.15	Inhibitor_I9	MER0646935	family I9 unassigned peptidase inhibitors	Jatropha curcas	I09.UPW	I09
TRINITY_DN5978_c0_g1_i1_4	PF00403.25	HMA	MER0592272	family I13 unassigned peptidase inhibitors	Cicer arietinum	I13.UPW	I13
TRINITY_DN6677_c0_g2_i1_6	PF00280.17	potato_inhibit	MER0511491	family I13 unassigned peptidase inhibitors	Prunus mume	I13.UPW	I13
TRINITY_DN11259_c0_g1_i2_5	PF02225.21	PA	MER0642455	family I15 unassigned peptidase inhibitors	Musa acuminata	I15.UPW	I15
TRINITY_DN9261_c0_g1_i2_1	PF02225.21	PA	MER0458007	family I15 unassigned peptidase inhibitors	Setaria italica	I15.UPW	I15
TRINITY_DN5250_c0_g1_i1_1	PF16845.4	SQAPI	MER0195773	phytocystatin	Hevea brasiliensis	I25.014	I25B
TRINITY_DN9738_c1_g1_i1_3	PF00031.20	Cystatin	MER0135396	phytocystatin	Populus trichocarpa	I25.014	I25B
TRINITY_DN10831_c0_g1_i1_3	PF16845.4	SQAPI	MER0511446	cystatin Hv-CPI5	Prunus mume	I25.054	I25B
TRINITY_DN8644_c0_g2_i1_1	PF16845.4	SQAPI	MER0593269	subfamily I25B unassigned peptidase inhibitors	Cicer arietinum	I25.UPB	I25B
TRINITY_DN9738_c2_g1_i2_3	PF16845.4	SQAPI	MER0622052	subfamily I25B unassigned peptidase inhibitors	Vitis vinifera	I25.UPB	I25B
TRINITY_DN11574_c0_g1_i5_3	PF01565.22	FAD_binding_4	MER0659912	family I29 unassigned peptidase inhibitors	Eucalyptus grandis	I29.UPW	I29
TRINITY_DN9962_c0_g2_i1_2	PF01565.22	FAD_binding_4	MER0659912	family I29 unassigned peptidase inhibitors	Eucalyptus grandis	I29.UPW	I29
TRINITY_DN17430_c0_g1_i1_5	PF01161.19	PBP	MER0785675	family I51 unassigned peptidase inhibitors	Citrus clementina	I51.UPW	I51
TRINITY_DN20395_c0_g2_i1_2			MER0571023	family I71 unassigned peptidase inhibitors	Cucumis sativus	I71.UPW	I71
TRINITY_DN10858_c0_g1_i1_5	PF01145.24	Band_7	MER0801850	family I87 unassigned peptidase inhibitors	Brassica napus	I87.UPW	I87
TRINITY_DN17896_c0_g1_i1_5	PF01145.24	Band_7	MER0517269	family I87 unassigned peptidase inhibitors	Glycine max	I87.UPW	I87
TRINITY_DN5908_c0_g1_i1_3	PF01145.24	Band_7	MER0680924	family I87 unassigned peptidase inhibitors	Beta vulgaris	I87.UPW	I87
TRINITY_DN9819_c1_g2_i1_2	PF01145.24	Band_7	MER0797839	family I87 unassigned peptidase inhibitors	Amborella trichopoda	I87.UPW	I87
TRINITY_DN9822_c0_g1_i2_3	PF01145.24	Band_7	MER0577440	family I87 unassigned peptidase inhibitors	Glycine max	I87.UPW	I87

TRINITY_DN3307_c0_g1_i1_1	PF01535.19	PPR	MER0680915	family I93 unassigned peptidase inhibitors	Beta vulgaris	I93.UPW	I93
TRINITY_DN11601_c0_g2_i2_5	PF01433.19	Peptidase_M1	MER0412087	alanyl aminopeptidase	Nicotiana benthamiana	M01.005	M01
TRINITY_DN11240_c0_g2_i1_2	PF01433.19	Peptidase_M1	MER0412570	family M1 unassigned peptidases	Solanum tuberosum	M01.UPW	M01
TRINITY_DN3173_c0_g3_i1_1			MER0628627	oligopeptidase A	Populus euphratica	M03.004	M03A
TRINITY_DN3111_c0_g2_i1_2	PF01432.19	Peptidase_M3	MER0817154	subfamily M3A unassigned peptidases	Morus notabilis	M03.UPA	M03A
TRINITY_DN10370_c0_g1_i1_3	PF13646.5	HEAT_2	MER1206231	subfamily M10A unassigned peptidases	Parasteatoda tepidariorum	M10.UPA	M10A
TRINITY_DN8417_c0_g1_i2_2	PF12796.6	Ank_2	MER0263582	family M13 non-peptidase homologues	Pteropus vampyrus	M13.UNW	M13
TRINITY_DN18724_c0_g1_i1_4	PF00069.24	Pkinase	MER1154309	subfamily M14B non-peptidase homologues	Strongylocentrotus purpuratus	M14.UNB	M14B
TRINITY_DN5937_c0_g1_i1_6	PF13620.5	CarboxypepD_reg	MER0469406	subfamily M14B non-peptidase homologues	Brevundimonas sp. BAL3	M14.UNB	M14B
TRINITY_DN18164_c0_g1_i1_4	PF05193.20	Peptidase_M16_C	MER0511546	subfamily M16A non-peptidase homologues	Prunus mume	M16.UNA	M16A
TRINITY_DN10095_c0_g1_i1_3	PF00675.19	Peptidase_M16	MER0922066	subfamily M16B non-peptidase homologues	Glycine soja	M16.UNB	M16B
TRINITY_DN17262_c0_g1_i1_3	PF00675.19	Peptidase_M16	MER0923642	subfamily M16B non-peptidase homologues	Citrus clementina	M16.UNB	M16B
TRINITY_DN17228_c0_g1_i1_3			MER0685626	subfamily M16A unassigned peptidases	Rosa chinensis	M16.UPA	M16A
TRINITY_DN19686_c0_g1_i1_5	PF00675.19	Peptidase_M16	MER0674993	subfamily M16A unassigned peptidases	Juglans regia	M16.UPA	M16A
TRINITY_DN11427_c0_g1_i3_2	PF05193.20	Peptidase_M16_C	MER0922059	subfamily M16B unassigned peptidases	Medicago truncatula	M16.UPB	M16B
TRINITY_DN15269_c0_g1_i1_3	PF00675.19	Peptidase_M16	MER0921599	subfamily M16B unassigned peptidases	Phaseolus vulgaris	M16.UPB	M16B
TRINITY_DN11446_c0_g1_i1_2	PF05193.20	Peptidase_M16_C	MER0504856	subfamily M16C unassigned peptidases	Prunus mume	M16.UPC	M16C
TRINITY_DN16500_c0_g1_i1_3			MER0179067	subfamily M16C unassigned peptidases	Ricinus communis	M16.UPC	M16C
TRINITY_DN11191_c0_g1_i2_6	PF00883.20	Peptidase_M17	MER0659646	leucyl aminopeptidase	Eucalyptus grandis	M17.002	M17
TRINITY_DN11579_c0_g1_i2_1	PF01592.15	NifU_N	MER0474067	PepB aminopeptidase	Ceratitis capitata	M17.004	M17
TRINITY_DN2292_c0_g3_i1_5	PF00428.18	Ribosomal_60s	MER0890057	family M18 unassigned peptidases	Lachancea quebecensis	M18.UPW	M18
TRINITY_DN9714_c0_g1_i1_1	PF02127.14	Peptidase_M18	MER0901680	family M18 unassigned peptidases	Juglans regia	M18.UPW	M18
TRINITY_DN1790_c0_g1_i1_2			MER0627913	subfamily M20A non-peptidase homologues	Populus euphratica	M20.UNA	M20A

TRINITY_DN8163_c0_g1_i1_1	PF01546.27	Peptidase_M20	MER0628810	subfamily M20A unassigned peptidases	Populus euphratica	M20.UPA	M20A
TRINITY_DN9076_c0_g2_i1_2	PF01546.27	Peptidase_M20	MER0015308	subfamily M20A unassigned peptidases	Arabidopsis thaliana	M20.UPA	M20A
TRINITY_DN8497_c0_g1_i1_2	PF01546.27	Peptidase_M20	MER0511719	family M20D unassigned peptidases	Prunus mume	M20.UPD	M20D
TRINITY_DN6447_c0_g1_i1_4	PF01546.27	Peptidase_M20	MER0621877	family M20 unassigned peptidases	Vitis vinifera	M20.UPW	M20X
TRINITY_DN9756_c0_g1_i3_1	PF01546.27	Peptidase_M20	MER0622142	family M20 unassigned peptidases	Vitis vinifera	M20.UPW	M20X
TRINITY_DN3078_c0_g1_i1_3	PF00557.23	Peptidase_M24	MER0180027	methionyl aminopeptidase 1	Ricinus communis	M24.001	M24A
TRINITY_DN10562_c0_g1_i5_3	PF00557.23	Peptidase_M24	MER0189826	Xaa-Pro dipeptidase	Glycine max	M24.007	M24B
TRINITY_DN4354_c0_g1_i1_4	PF15801.4	zf-C6H2	MER0161105	methionyl aminopeptidase 1	Drosophila simulans	M24.017	M24A
TRINITY_DN4347_c0_g1_i1_6	PF01321.17	Creatinase_N	MER0498075	At4g36760 g.p.	Prunus mume	M24.037	M24B
TRINITY_DN10807_c0_g1_i5_1	PF00557.23	Peptidase_M24	MER0093675	proliferation-association protein 1	Ammopiptanthus mongolicus	M24.973	M24X
TRINITY_DN3498_c0_g1_i1_3	PF00557.23	Peptidase_M24	MER0176444	proliferation-association protein 1	Ricinus communis	M24.973	M24X
TRINITY_DN10361_c1_g2_i1_1	PF03868.14	Ribosomal_L6e_N	MER0512373	subfamily M24B unassigned peptidases	Saimiri boliviensis	M24.UPB	M24B
TRINITY_DN10218_c0_g1_i2_2	PF05450.14	Nicastrin	MER0622161	family M28 non-peptidase homologues	Vitis vinifera	M28.UNW	M28X
TRINITY_DN13262_c0_g1_i1_3	PF01979.19	Amidohydro_1	MER0042999	urease	Arabidopsis thaliana	M38.982	M38
TRINITY_DN20109_c0_g1_i1_4	PF00699.19	Urease_beta	MER0004826	urease	Klebsiella aerogenes	M38.982	M38
TRINITY_DN11049_c0_g1_i2_6	PF01979.19	Amidohydro_1	MER0585097	family M38 non-peptidase homologues	Glycine max	M38.UNW	M38
TRINITY_DN19298_c0_g1_i1_1	PF01979.19	Amidohydro_1	MER0859048	family M38 unassigned peptidases	Citrus clementina	M38.UPW	M38
TRINITY_DN1050_c0_g1_i1_3	PF00004.28	AAA	MER0412267	family M41 non-peptidase homologues	Nicotiana benthamiana	M41.UNW	M41
TRINITY_DN10875_c0_g1_i2_2	PF00004.28	AAA	MER0258487	family M41 non-peptidase homologues	Loxodonta africana	M41.UNW	M41
TRINITY_DN11412_c0_g1_i3_3	PF00004.28	AAA	MER0413614	family M41 non-peptidase homologues	Solanum lycopersicum	M41.UNW	M41
TRINITY_DN11515_c0_g1_i3_1	PF00004.28	AAA	MER0278187	family M41 non-peptidase homologues	Glossina morsitans	M41.UNW	M41
TRINITY_DN11618_c0_g1_i1_2	PF02359.17	CDC48_N	MER0413614	family M41 non-peptidase homologues	Solanum lycopersicum	M41.UNW	M41
TRINITY_DN19006_c0_g1_i1_5	PF02933.16	CDC48_2	MER0273571	family M41 non-peptidase homologues	Paenibacillus mucilaginosus	M41.UNW	M41
TRINITY_DN4382_c0_g1_i1_1	PF00004.28	AAA	MER0278187	family M41 non-peptidase homologues	Glossina morsitans	M41.UNW	M41

TRINITY_DN7324_c0_g1_i1_3	PF00004.28	AAA	MER0412267	family M41 non-peptidase homologues	Nicotiana benthamiana	M41.UNW	M41
TRINITY_DN7885_c0_g1_i8_1	PF00004.28	AAA	MER0278187	family M41 non-peptidase homologues	Glossina morsitans	M41.UNW	M41
TRINITY_DN8933_c1_g1_i1_2	PF00004.28	AAA	MER0412130	family M41 non-peptidase homologues	Nicotiana benthamiana	M41.UNW	M41
TRINITY_DN9788_c0_g1_i1_3	PF00004.28	AAA	MER0278187	family M41 non-peptidase homologues	Glossina morsitans	M41.UNW	M41
TRINITY_DN9826_c0_g1_i1_3	PF00004.28	AAA	MER0278187	family M41 non-peptidase homologues	Glossina morsitans	M41.UNW	M41
TRINITY_DN7466_c0_g3_i1_3	PF01434.17	Peptidase_M41	MER0659563	family M41 unassigned peptidases	Eucalyptus grandis	M41.UPW	M41
TRINITY_DN9825_c0_g1_i1_3	PF01434.17	Peptidase_M41	MER0369857	family M41 unassigned peptidases	Cucumis sativus	M41.UPW	M41
TRINITY_DN9943_c0_g1_i2_6	PF06480.14	FtsH_ext	MER0511566	family M41 unassigned peptidases	Prunus mume	M41.UPW	M41
TRINITY_DN10995_c0_g2_i4_3	PF16491.4	Peptidase_M48_N	MER0171229	farnesylated-protein converting enzyme 1	Ricinus communis	M48.003	M48A
TRINITY_DN4227_c0_g1_i1_3	PF01435.17	Peptidase_M48	MER0570784	At5g51740	Cucumis sativus	M48.A01	M48C
TRINITY_DN1809_c0_g1_i1_3	PF03571.14	Peptidase_M49	MER0627730	family M49 unassigned peptidases	Populus euphratica	M49.UPW	M49
TRINITY_DN10628_c0_g1_i1_3	PF00571.27	CBS	MER0236128	subfamily M50B non-peptidase homologues	Thermus scotoductus	M50.UNB	M50B
TRINITY_DN17153_c0_g1_i1_1			MER0270354	subfamily M50B non-peptidase homologues	Ailuropoda melanoleuca	M50.UNB	M50B
TRINITY_DN8157_c0_g1_i1_3	PF00571.27	CBS	MER0231653	family M50 non-peptidase homologues	Desulfovibrio aespoeensis	M50.UNW	M50
TRINITY_DN8158_c0_g1_i1_1	PF01398.20	JAB	MER0637000	Csn5 peptidase	Nicotiana sylvestris	M67.002	M67A
TRINITY_DN10774_c0_g1_i1_1	PF01398.20	JAB	MER0570062	Mername-AA168 protein	Cucumis sativus	M67.971	M67X
TRINITY_DN11397_c0_g1_i5_2	PF13012.5	MitMem_reg	MER0571370	eukaryotic translation initiation factor 3 subunit F	Cucumis melo	M67.974	M67X
TRINITY_DN4385_c0_g1_i1_2	PF11543.7	UN_NPL4	MER0393371	subfamily M67A non-peptidase homologues	Dictyostelium fasciculatum	M67.UNA	M67A
TRINITY_DN6126_c0_g1_i2_6	PF01398.20	JAB	MER0621841	family M67 non-peptidase homologues	Vitis vinifera	M67.UNW	M67X
TRINITY_DN11353_c0_g1_i2_3	PF01398.20	JAB	MER0905581	subfamily M67A unassigned peptidases	Gossypium raimondii	M67.UPA	M67A
TRINITY_DN8579_c0_g2_i1_1	PF00562.27	RNA_pol_Rpb2_6	MER0195833	family N11 unassigned peptide lyases		N11.UPW	N11
TRINITY_DN19832_c0_g1_i1_3			MER0217205	Nma111 peptidase	Vitis vinifera	S01.434	S01D
TRINITY_DN4033_c0_g2_i1_3	PF12812.6	PDZ_1	MER0217205	Nma111 peptidase	Vitis vinifera	S01.434	S01D

TRINITY_DN10701_c0_g1_i2_1	PF00333.19	Ribosomal_S5	MER0486762	subfamily S1A unassigned peptidases	Nomascus leucogenys	S01.UPA	S01A
TRINITY_DN12510_c0_g1_i1_1	PF13964.5	Kelch_6	MER0366613	subfamily S1A unassigned peptidases	Bos taurus	S01.UPA	S01A
TRINITY_DN9813_c0_g1_i1_2	PF00565.16	SNase	MER0573000	subfamily S1A unassigned peptidases	Corvus brachyrhynchos	S01.UPA	S01A
TRINITY_DN4739_c0_g2_i1_6	PF13365.5	Trypsin_2	MER0412287	subfamily S1C unassigned peptidases	Nicotiana benthamiana	S01.UPC	S01C
TRINITY_DN3347_c0_g1_i1_2	PF00082.21	Peptidase_S8	MER0570101	ARA12 peptidase	Citrus sinensis	S08.112	S08A
TRINITY_DN10388_c0_g2_i6_4	PF00082.21	Peptidase_S8	MER0511553	AIR3 peptidase	Prunus mume	S08.119	S08A
TRINITY_DN10388_c0_g2_i5_4	PF00082.21	Peptidase_S8	MER0511553	AIR3 peptidase	Prunus mume	S08.119	S08A
TRINITY_DN53_c0_g1_i1_5	PF00082.21	Peptidase_S8	MER0551416	AIR3 peptidase	Malus domestica	S08.119	S08A
TRINITY_DN10388_c0_g2_i1_5	PF00082.21	Peptidase_S8	MER0550217	At5g59810	Malus domestica	S08.A26	S08A
TRINITY_DN10903_c0_g1_i6_2	PF00082.21	Peptidase_S8	MER0039101	At1g32980	Arachis hypogaea	S08.A31	S08A
TRINITY_DN10961_c0_g1_i3_3			MER0039101	At1g32980	Arachis hypogaea	S08.A31	S08A
TRINITY_DN9173_c0_g1_i1_4	PF00082.21	Peptidase_S8	MER0039101	At1g32980	Arachis hypogaea	S08.A31	S08A
TRINITY_DN12081_c0_g1_i1_6	PF13540.5	RCC1_2	MER0987837	subfamily S8A non-peptidase homologues	Actinokineospora spheciospongiae	S08.UNA	S08A
TRINITY_DN23044_c0_g1_i1_1			MER0978777	subfamily S8A non-peptidase homologues	Gossypium arboreum	S08.UNA	S08A
TRINITY_DN10039_c0_g1_i2_2			MER0600777	subfamily S8A unassigned peptidases	Zea mays	S08.UPA	S08A
TRINITY_DN12695_c0_g2_i1_3			MER0622014	subfamily S8A unassigned peptidases	Vitis vinifera	S08.UPA	S08A
TRINITY_DN18123_c0_g2_i1_2			MER0535213	subfamily S8A unassigned peptidases	Sesamum indicum	S08.UPA	S08A
TRINITY_DN8107_c0_g1_i1_3	PF00082.21	Peptidase_S8	MER0989878	subfamily S8A unassigned peptidases	Citrus clementina	S08.UPA	S08A
TRINITY_DN9297_c0_g3_i2_1			MER0571725	subfamily S8A unassigned peptidases	Cucumis melo	S08.UPA	S08A
TRINITY_DN9993_c0_g1_i2_4	PF00082.21	Peptidase_S8	MER0544355	subfamily S8A unassigned peptidases	Glycine max	S08.UPA	S08A
TRINITY_DN9993_c0_g1_i4_4			MER0550407	subfamily S8A unassigned peptidases	Malus domestica	S08.UPA	S08A
TRINITY_DN10694_c0_g1_i1_2	PF00756.19	Esterase	MER0622192	S-formylglutathione hydrolase FrmB	Vitis vinifera	S09.940	S09B
TRINITY_DN10196_c0_g1_i1_1	PF07859.12	Abhydrolase_3	MER0500863	At5g62180	Prunus mume	S09.A14	S09X
TRINITY_DN8778_c0_g1_i2_2	PF12146.7	Hydrolase_4	MER0499110	At3g47560	Prunus mume	S09.A31	S09X
TRINITY_DN8570_c0_g1_i2_1	PF02230.15	Abhydrolase_2	MER0209135	AT5G20060 protein	Ricinus communis	S09.A56	S09X

TRINITY_DN7057_c1_g1_i1_2	PF07859.12	Abhydrolase_3	MER0036044	F16b3.4 protein	Arabidopsis thaliana	S09.A62	S09X
TRINITY_DN10509_c0_g1_i1_3	PF01738.17	DLH	MER0210195	family S9 non-peptidase homologues	Vitis vinifera	S09.UNW	S09X
TRINITY_DN10693_c1_g1_i1_3	PF00400.31	WD40	MER0137389	family S9 non-peptidase homologues	Ciona savignyi	S09.UNW	S09X
TRINITY_DN10708_c0_g1_i1_2	PF00400.31	WD40	MER0156586	family S9 non-peptidase homologues	Dipodomys ordii	S09.UNW	S09X
TRINITY_DN10708_c1_g1_i1_1	PF00400.31	WD40	MER0146540	family S9 non-peptidase homologues	Ciona savignyi	S09.UNW	S09X
TRINITY_DN11227_c0_g1_i5_5	PF01738.17	DLH	MER0092863	family S9 non-peptidase homologues	Polynucleobacter necessarius	S09.UNW	S09X
TRINITY_DN11355_c0_g1_i2_1	PF00400.31	WD40	MER0057464	family S9 non-peptidase homologues	Thermobispora bispora	S09.UNW	S09X
TRINITY_DN11433_c0_g1_i2_1	PF00400.31	WD40	MER0156555	family S9 non-peptidase homologues	Dipodomys ordii	S09.UNW	S09X
TRINITY_DN11500_c0_g1_i1_3	PF00400.31	WD40	MER0156586	family S9 non-peptidase homologues	Dipodomys ordii	S09.UNW	S09X
TRINITY_DN16390_c0_g1_i1_1	PF00400.31	WD40	MER0156766	family S9 non-peptidase homologues	Dipodomys ordii	S09.UNW	S09X
TRINITY_DN2267_c0_g1_i1_5	PF00400.31	WD40	MER0157926	family S9 non-peptidase homologues	Dipodomys ordii	S09.UNW	S09X
TRINITY_DN2864_c0_g1_i1_4	PF00400.31	WD40	MER0156766	family S9 non-peptidase homologues	Dipodomys ordii	S09.UNW	S09X
TRINITY_DN3258_c0_g1_i1_2	PF00400.31	WD40	MER0136116	family S9 non-peptidase homologues	Batrachochytrium dendrobatidis	S09.UNW	S09X
TRINITY_DN4661_c0_g1_i3_3	PF00400.31	WD40	MER0145804	family S9 non-peptidase homologues	Ciona savignyi	S09.UNW	S09X
TRINITY_DN5067_c0_g1_i1_3	PF00400.31	WD40	MER0183518	family S9 non-peptidase homologues	Ochotona princeps	S09.UNW	S09X
TRINITY_DN6356_c0_g1_i1_3	PF00400.31	WD40	MER0183170	family S9 non-peptidase homologues	Ochotona princeps	S09.UNW	S09X
TRINITY_DN6371_c0_g1_i2_5			MER0159213	family S9 non-peptidase homologues	Nostoc sp. PCC 7120	S09.UNW	S09X
TRINITY_DN709_c0_g2_i1_2	PF00400.31	WD40	MER0135310	family S9 non-peptidase homologues	Batrachochytrium dendrobatidis	S09.UNW	S09X
TRINITY_DN8751_c1_g1_i1_3	PF00400.31	WD40	MER0157482	family S9 non-peptidase homologues	Dipodomys ordii	S09.UNW	S09X
TRINITY_DN9170_c0_g1_i1_1	PF01738.17	DLH	MER0209990	family S9 non-peptidase homologues	Vitis vinifera	S09.UNW	S09X
TRINITY_DN9218_c0_g1_i7_3	PF08606.10	Prp19	MER0137389	family S9 non-peptidase homologues	Ciona savignyi	S09.UNW	S09X
TRINITY_DN2451_c0_g1_i1_2	PF00326.20	Peptidase_S9	MER0413191	subfamily S9A unassigned peptidases	Solanum lycopersicum	S09.UPA	S09A

TRINITY_DN10971_c0_g1_i2_2	PF07676.11	PD40	MER0404572	subfamily S9B unassigned peptidases	Nectria haematococca	S09.UPB	S09B
TRINITY_DN3963_c0_g1_i1_1	PF00326.20	Peptidase_S9	MER0650926	subfamily S9B unassigned peptidases	Jatropha curcas	S09.UPB	S09B
TRINITY_DN11503_c0_g1_i1_1	PF07859.12	Abhydrolase_3	MER0588552	subfamily S9C unassigned peptidases	Citrus sinensis	S09.UPC	S09C
TRINITY_DN11503_c0_g1_i5_1	PF07859.12	Abhydrolase_3	MER0588552	subfamily S9C unassigned peptidases	Citrus sinensis	S09.UPC	S09C
TRINITY_DN8311_c0_g1_i1_6	PF07859.12	Abhydrolase_3	MER0659141	subfamily S9C unassigned peptidases	Eucalyptus grandis	S09.UPC	S09C
TRINITY_DN11588_c0_g1_i3_2	PF00400.31	WD40	MER0156515	family S9 unassigned peptidases	Dipodomys ordii	S09.UPW	S09X
TRINITY_DN6770_c0_g1_i2_3	PF12697.6	Abhydrolase_6	MER0650695	family S9 unassigned peptidases	Jatropha curcas	S09.UPW	S09X
TRINITY_DN8280_c0_g2_i1_2	PF02230.15	Abhydrolase_2	MER0588084	family S9 unassigned peptidases	Citrus sinensis	S09.UPW	S09X
TRINITY_DN17892_c1_g1_i1_5	PF00450.21	Peptidase_S10	MER0660349	serine carboxypeptidase C	Eucalyptus grandis	S10.004	S10
TRINITY_DN21541_c0_g1_i1_4	PF00450.21	Peptidase_S10	MER0581883	serine carboxypeptidase C		S10.004	S10
TRINITY_DN10461_c0_g1_i3_3	PF00450.21	Peptidase_S10	MER0525671	serine carboxypeptidase III	Malus domestica	S10.009	S10
TRINITY_DN2711_c0_g1_i1_3	PF00450.21	Peptidase_S10	MER0637468	OsBISCPL1-type putative carboxypeptidase	Nicotiana sylvestris	S10.017	S10
TRINITY_DN9708_c0_g1_i1_2	PF00450.21	Peptidase_S10	MER0581564	At4g30810		S10.A32	S10
TRINITY_DN22082_c0_g1_i1_3	PF00450.21	Peptidase_S10	MER0629038	At3g63470	Populus euphratica	S10.A41	S10
TRINITY_DN2708_c0_g2_i1_1	PF00450.21	Peptidase_S10	MER0627870	At3g63470	Populus euphratica	S10.A41	S10
TRINITY_DN14006_c0_g1_i1_3	PF00109.25	ketoacyl-synt	MER0947272	family S10 unassigned peptidases	Brassica napus	S10.UPW	S10
TRINITY_DN17601_c0_g1_i1_6	PF00109.25	ketoacyl-synt	MER0947272	family S10 unassigned peptidases	Brassica napus	S10.UPW	S10
TRINITY_DN10262_c0_g2_i1_1	PF00574.22	CLP_protease	MER0639468	peptidase Clp	Nelumbo nucifera	S14.001	S14
TRINITY_DN17662_c0_g2_i1_1	PF00574.22	CLP_protease	MER0663832	ClpP4 peptidase	Elaeis guineensis	S14.010	S14
TRINITY_DN10960_c0_g1_i1_3	PF00574.22	CLP_protease	MER0171106	At5g23140	Ricinus communis	S14.A02	S14
TRINITY_DN9518_c0_g2_i2_1	PF00574.22	CLP_protease	MER0588742	At5g23140	Citrus sinensis	S14.A02	S14
TRINITY_DN8532_c0_g1_i1_2	PF00574.22	CLP_protease	MER1014788	family S14 non-peptidase homologues	Morus notabilis	S14.UNW	S14
TRINITY_DN128_c0_g1_i1_1	PF00240.22	ubiquitin	MER0053503	family S16 unassigned peptidases	Pan troglodytes	S16.UPW	S16
TRINITY_DN10594_c0_g1_i4_3	PF00717.22	Peptidase_S24	MER0232593	signalase	Glycine max	S26.010	S26B
TRINITY_DN7152_c0_g1_i2_3			MER0411784	subfamily S26A non-peptidase homologues	Nicotiana benthamiana	S26.UNA	S26A
TRINITY_DN9538_c0_g1_i1_2	PF05577.11	Peptidase_S28	MER0143936	AT5g65760	Vitis vinifera	S28.A02	S28
TRINITY_DN10611_c0_g2_i1_3	PF05577.11	Peptidase_S28	MER1054347	family S28 unassigned peptidases	Theobroma cacao	S28.UPW	S28

TRINITY_DN11102_c0_g1_i4_6	PF00561.19	Abhydrolase_1	MER0511511	family S33 non-peptidase homologues	Prunus mume	S33.UNW	S33
TRINITY_DN11102_c1_g1_i1_1			MER0511511	family S33 non-peptidase homologues	Prunus mume	S33.UNW	S33
TRINITY_DN7295_c0_g1_i1_1	PF00155.20	Aminotran_1_2	MER1363070	family S33 non-peptidase homologues	Thecamonas trahens	S33.UNW	S33
TRINITY_DN8211_c0_g1_i2_3	PF00561.19	Abhydrolase_1	MER0584079	family S33 non-peptidase homologues	Cicer arietinum	S33.UNW	S33
TRINITY_DN9475_c0_g1_i1_3	PF16113.4	ECH_2	MER0663876	family S33 non-peptidase homologues	Elaeis guineensis	S33.UNW	S33
TRINITY_DN17041_c0_g1_i1_1	PF12146.7	Hydrolase_4	MER0660114	family S33 unassigned peptidases	Eucalyptus grandis	S33.UPW	S33
TRINITY_DN20857_c0_g1_i1_2	PF13419.5	HAD_2	MER0230625	family S33 unassigned peptidases	Micromonospora sp. L5	S33.UPW	S33
TRINITY_DN2750_c0_g2_i1_2	PF13419.5	HAD_2	MER0230625	family S33 unassigned peptidases	Micromonospora sp. L5	S33.UPW	S33
TRINITY_DN5337_c0_g1_i1_4	PF00561.19	Abhydrolase_1	MER0577056	family S33 unassigned peptidases		S33.UPW	S33
TRINITY_DN5779_c0_g1_i1_2	PF00561.19	Abhydrolase_1	MER0588391	family S33 unassigned peptidases	Citrus sinensis	S33.UPW	S33
TRINITY_DN8864_c0_g1_i1_1	PF00561.19	Abhydrolase_1	MER0152083	family S33 unassigned peptidases	Desulfatibacillum alkenivorans	S33.UPW	S33
TRINITY_DN9585_c0_g1_i1_2	PF00561.19	Abhydrolase_1	MER1334561	family S33 unassigned peptidases	Juglans regia	S33.UPW	S33
TRINITY_DN10216_c0_g1_i1_3	PF00378.19	ECH_1	MER1072352	subfamily S49C non-peptidase homologues	Thermus thermophilus	S49.UNC	S49C
TRINITY_DN11585_c0_g1_i2_3	PF00378.19	ECH_1	MER1073240	subfamily S49C non-peptidase homologues	Acinetobacter bohemicus	S49.UNC	S49C
TRINITY_DN7857_c0_g1_i4_2	PF00378.19	ECH_1	MER1073240	subfamily S49C non-peptidase homologues	Acinetobacter bohemicus	S49.UNC	S49C
TRINITY_DN9598_c0_g1_i1_1	PF00378.19	ECH_1	MER1073240	subfamily S49C non-peptidase homologues	Acinetobacter bohemicus	S49.UNC	S49C
TRINITY_DN7535_c0_g2_i1_1	PF01694.21	Rhomboid	MER0578051	RBL2 peptidase		S54.015	S54
TRINITY_DN11173_c0_g2_i3_4	PF00153.26	Mito_carr	MER1363300	family S54 non-peptidase homologues	Thecamonas trahens	S54.UNW	S54
TRINITY_DN11173_c0_g3_i1_4	PF00153.26	Mito_carr	MER1363300	family S54 non-peptidase homologues	Thecamonas trahens	S54.UNW	S54
TRINITY_DN11525_c0_g1_i1_2	PF00153.26	Mito_carr	MER1363300	family S54 non-peptidase homologues	Thecamonas trahens	S54.UNW	S54
TRINITY_DN17861_c0_g1_i1_6	PF00153.26	Mito_carr	MER1363300	family S54 non-peptidase homologues	Thecamonas trahens	S54.UNW	S54
TRINITY_DN9097_c0_g1_i1_2	PF00153.26	Mito_carr	MER1363300	family S54 non-peptidase homologues	Thecamonas trahens	S54.UNW	S54
TRINITY_DN6573_c0_g1_i1_4	PF01694.21	Rhomboid	MER1081552	family S54 unassigned peptidases	Brassica oleracea	S54.UPW	S54

TRINITY_DN10750_c0_g1_i1_2	PF00227.25	Proteasome	MER0172841	proteasome subunit beta1c	Ricinus communis	T01.010	T01A
TRINITY_DN11620_c0_g1_i1_2	PF10584.8	Proteasome_A_N	MER0411684	proteasome subunit alpha 6	Nicotiana benthamiana	T01.971	T01A
TRINITY_DN6332_c0_g2_i1_3	PF10584.8	Proteasome_A_N	MER0570712	proteasome subunit alpha 2	Cucumis sativus	T01.972	T01A
TRINITY_DN3942_c0_g1_i3_3	PF10584.8	Proteasome_A_N	MER0180218	proteasome subunit alpha 1	Ricinus communis	T01.976	T01A
TRINITY_DN11086_c0_g1_i1_1	PF10584.8	Proteasome_A_N	MER0505546	Mername-AA242 peptidase homologue	Prunus mume	T01.995	T01A
TRINITY_DN10558_c0_g1_i2_4	PF00227.25	Proteasome	MER0173164	proteasome subunit beta2	Ricinus communis	T01.A02	T01A
TRINITY_DN9582_c0_g2_i1_5	PF00227.25	Proteasome	MER0126199	PBE2 g.p.	Vitis vinifera	T01.A10	T01A
TRINITY_DN11422_c0_g1_i2_2	PF00227.25	Proteasome	MER1088634	subfamily T1A non-peptidase homologues	Gossypium raimondii	T01.UNA	T01A
TRINITY_DN3481_c0_g1_i1_6	PF00227.25	Proteasome	MER0570686	subfamily T1A non-peptidase homologues	Cucumis sativus	T01.UNA	T01A
TRINITY_DN5812_c0_g1_i1_1	PF00227.25	Proteasome	MER1088605	subfamily T1A non-peptidase homologues	Theobroma cacao	T01.UNA	T01A
TRINITY_DN11283_c0_g1_i3_1	PF10584.8	Proteasome_A_N	MER0576836	subfamily T1A unassigned peptidases		T01.UPA	T01A
TRINITY_DN3139_c0_g1_i1_2	PF00227.25	Proteasome	MER0584369	subfamily T1A unassigned peptidases		T01.UPA	T01A
TRINITY_DN9816_c0_g1_i2_1	PF00227.25	Proteasome	MER0538291	subfamily T1A unassigned peptidases	Sesamum indicum	T01.UPA	T01A
TRINITY_DN11439_c0_g1_i3_4	PF00227.25	Proteasome	MER0645901	family T1 unassigned peptidases	Jatropha curcas	T01.UPW	T01X
TRINITY_DN11439_c0_g1_i2_4	PF00227.25	Proteasome	MER0645901	family T1 unassigned peptidases	Jatropha curcas	T01.UPW	T01X
TRINITY_DN9206_c0_g2_i1_1	PF01112.17	Asparaginase_2	MER0179633	family T2 unassigned peptidases	Ricinus communis	T02.UPW	T02
TRINITY_DN10152_c0_g1_i1_1	PF03297.14	Ribosomal_S25	MER1365022	family T3 non-peptidase homologues	Thecamonas trahens	T03.UNW	T03
TRINITY_DN10152_c0_g1_i1_3			MER1365022	family T3 non-peptidase homologues	Thecamonas trahens	T03.UNW	T03
TRINITY_DN3322_c0_g2_i1_2	PF01960.17	ArgJ	MER0122168	ArgJ protein	Vitis vinifera	T05.002	T05
TRINITY_DN10088_c0_g2_i1_3	PF14226.5	DIOX_N	MER0576457	family T7 unassigned peptidases		T07.UPW	T07
TRINITY_DN11452_c0_g2_i2_2	PF14226.5	DIOX_N	MER0576457	family T7 unassigned peptidases		T07.UPW	T07
TRINITY_DN4171_c0_g2_i2_3	PF14226.5	DIOX_N	MER0576457	family T7 unassigned peptidases		T07.UPW	T07
TRINITY_DN8889_c0_g1_i1_1	PF14226.5	DIOX_N	MER0576457	family T7 unassigned peptidases		T07.UPW	T07
TRINITY_DN6342_c0_g1_i2_3	PF00155.20	Aminotran_1_2	MER0501945	family U32 unassigned peptidases	Chthonomonas calidirosea	U32.UPW	U32
TRINITY_DN2392_c0_g1_i1_2			MER0901042	family U74 unassigned peptidases	Gossypium arboreum	U74.UPW	U74

Supplementary Table S13: Water soluble peptidases of Betula pollen

Protein IDs	Pfam accession	Pfam family name	Merops accession	Merops family	Merops peptidase ID	Merops subfamily
TRINITY_DN19058_c2_g1::TRINITY_DN19058_c2_g1_i7::g.111114::m.111114	PF14543.5	TAXi_N	MER0372282	CDR1 peptidase	A01.069	A01B
TRINITY_DN13851_c1_g1::TRINITY_DN13851_c1_g1_i8::g.29304::m.29304	PF00026.22	Asp	MER0680933	At1g62290	A01.A02	A01A
TRINITY_DN15082_c2_g5::TRINITY_DN15082_c2_g5_i1::g.46709::m.46709	PF14543.5	TAXi_N	MER0106023	At3g12700	A01.A30	A01B
TRINITY_DN13851_c1_g2::TRINITY_DN13851_c1_g2_i2::g.29292::m.29292	PF00026.22	Asp	MER1131201	subfamily A1A unassigned peptidases	A01.UPA	A01A
TRINITY_DN15036_c1_g1::TRINITY_DN15036_c1_g1_i9::g.46235::m.46235	PF00188.25	CAP	MER0228949	subfamily A1A unassigned peptidases	A01.UPA	A01A
TRINITY_DN19846_c6_g2::TRINITY_DN19846_c6_g2_i1::g.124494::m.124494	PF14543.5	TAXi_N	MER0250417	subfamily A1A unassigned peptidases	A01.UPA	A01A
TRINITY_DN19962_c5_g2::TRINITY_DN19962_c5_g2_i2::g.126940::m.126940	PF01095.18	Pectinesterase	MER0570148	family A2 unassigned peptidases	A02.UPW	A02X
TRINITY_DN19187_c0_g2::TRINITY_DN19187_c0_g2_i3::g.113547::m.113547	PF00627.30	UBA	MER0628276	subfamily A28A unassigned peptidases	A28.UPA	A28A
TRINITY_DN19587_c1_g2::TRINITY_DN19587_c1_g2_i1::g.120316::m.120316	PF00240.22	ubiquitin	MER0242394	subfamily A28A unassigned peptidases	A28.UPA	A28A
TRINITY_DN18320_c3_g1::TRINITY_DN18320_c3_g1_i1::g.98804::m.98804	PF00112.22	Peptidase_C1	MER0640046	cathepsin B, plant form	C01.049	C01A
TRINITY_DN10140_c0_g1::TRINITY_DN10140_c0_g1_i2::g.4317::m.4317	PF00112.22	Peptidase_C1	MER1161383	subfamily C1A unassigned peptidases	C01.UPA	C01A
TRINITY_DN13376_c2_g2::TRINITY_DN13376_c2_g2_i3::g.22986::m.22986	PF00112.22	Peptidase_C1	MER1161143	subfamily C1A unassigned peptidases	C01.UPA	C01A
TRINITY_DN15205_c1_g1::TRINITY_DN15205_c1_g1_i3::g.48499::m.48499	PF00112.22	Peptidase_C1	MER1160913	subfamily C1A unassigned peptidases	C01.UPA	C01A
TRINITY_DN15924_c1_g1::TRINITY_DN15924_c1_g1_i2::g.59050::m.59050	PF00112.22	Peptidase_C1	MER1161707	subfamily C1A unassigned peptidases	C01.UPA	C01A
TRINITY_DN15963_c2_g1::TRINITY_DN15963_c2_g1_i4::g.59609::m.59609	PF00112.22	Peptidase_C1	MER1164780	subfamily C1A unassigned peptidases	C01.UPA	C01A
TRINITY_DN18149_c0_g1::TRINITY_DN18149_c0_g1_i3::g.95908::m.95908	PF00112.22	Peptidase_C1	MER1164799	subfamily C1A unassigned peptidases	C01.UPA	C01A
TRINITY_DN18157_c0_g1::TRINITY_DN18157_c0_g1_i6::g.96079::m.96079	PF00112.22	Peptidase_C1	MER1161753	subfamily C1A unassigned peptidases	C01.UPA	C01A
TRINITY_DN18947_c6_g2::TRINITY_DN18947_c6_g2_i2::g.109306::m.109306	PF00112.22	Peptidase_C1	MER1161493	subfamily C1A unassigned peptidases	C01.UPA	C01A
TRINITY_DN18947_c6_g5::TRINITY_DN18947_c6_g5_i2::g.109307::m.109307	PF00112.22	Peptidase_C1	MER1162079	subfamily C1A unassigned peptidases	C01.UPA	C01A

TRINITY_DN31964_c0_g1::TRINITY_DN31964_c0_g1_i1::g.130316::m.130316	PF00112.22	Peptidase_C1	MER1161346	subfamily C1A unassigned peptidases	C01.UPA	C01A
TRINITY_DN16618_c2_g1::TRINITY_DN16618_c2_g1_i4::g.70494::m.70494	PF04424.12	MINDY_DUB	MER0934028	FAM63B g.p.	C115.002	C115
TRINITY_DN13485_c2_g2::TRINITY_DN13485_c2_g2_i2::g.24426::m.24426	PF01088.20	Peptidase_C12	MER1170789	family C12 unassigned peptidases	C12.UPW	C12
TRINITY_DN14025_c2_g1::TRINITY_DN14025_c2_g1_i8::g.31522::m.31522	PF13898.5	DUF4205	MER1253126		C121.UNW	C121
TRINITY_DN12352_c0_g2::TRINITY_DN12352_c0_g2_i4::g.12096::m.12096	PF01650.17	Peptidase_C13	MER1173188	family C13 unassigned peptidases	C13.UPW	C13
TRINITY_DN12454_c0_g1::TRINITY_DN12454_c0_g1_i1::g.12984::m.12984	PF00240.22	ubiquitin	MER0109705	UBP6 peptidase	C19.094	C19
TRINITY_DN13524_c0_g1::TRINITY_DN13524_c0_g1_i8::g.24870::m.24870	PF00917.25	MATH	MER0712608	family C19 unassigned peptidases	C19.UPW	C19
TRINITY_DN18543_c1_g3::TRINITY_DN18543_c1_g3_i1::g.101857::m.101857	PF02148.18	zf-UBP	MER0546657	family C19 unassigned peptidases	C19.UPW	C19
TRINITY_DN19613_c2_g2::TRINITY_DN19613_c2_g2_i3::g.120856::m.120856	PF12436.7	USP7_ICP0_bdg	MER0715954	family C19 unassigned peptidases	C19.UPW	C19
TRINITY_DN17699_c0_g2::TRINITY_DN17699_c0_g2_i2::g.88416::m.88416	PF00310.20	GATase_2	MER0511740	glutamate synthase	C44.003	C44
TRINITY_DN13284_c1_g1::TRINITY_DN13284_c1_g1_i7::g.21970::m.21970	PF12481.7	DUF3700	MER0614899	family C44 unassigned peptidases	C44.UPW	C44
TRINITY_DN13734_c2_g1::TRINITY_DN13734_c2_g1_i1::g.27715::m.27715	PF12481.7	DUF3700	MER0571885	family C44 unassigned peptidases	C44.UPW	C44
TRINITY_DN15836_c2_g1::TRINITY_DN15836_c2_g1_i8::g.57209::m.57209	PF13537.5	GATase_7	MER0037116	family C44 unassigned peptidases	C44.UPW	C44
TRINITY_DN13841_c4_g1::TRINITY_DN13841_c4_g1_i7::g.28424::m.28424	PF01965.23	DJ-1_PfpI	MER0891420	family C56 unassigned peptidases	C56.UPW	C56
TRINITY_DN17135_c0_g1::TRINITY_DN17135_c0_g1_i6::g.79192::m.79192	PF07910.12	Peptidase_C78	MER0737213	At3g48380 protein	C78.A02	C78A
TRINITY_DN14972_c1_g2::TRINITY_DN14972_c1_g2_i4::g.44982::m.44982	PF02338.18	OTU	MER0744567	subfamily C85B unassigned peptidases	C85.UPB	C85B
TRINITY_DN11558_c0_g1::TRINITY_DN11558_c0_g1_i1::g.7858::m.7858	PF00197.17	Kunitz_legume	MER0453920	inhibitor MtTi2	I03.030	I03A
TRINITY_DN14021_c1_g2::TRINITY_DN14021_c1_g2_i5::g.31431::m.31431	PF00079.19	Serpin	MER0510912	AtSerpin1	I04.087	I04
TRINITY_DN18255_c1_g1::TRINITY_DN18255_c1_g1_i6::g.97743::m.97743	PF02736.18	Myosin_N	MER1118174	family I4 unassigned peptidase inhibitors	I04.UPW	I04
TRINITY_DN13204_c1_g1::TRINITY_DN13204_c1_g1_i4::g.21099::m.21099	PF05922.15	Inhibitor_I9	MER0628798	family I9 unassigned peptidase inhibitors	I09.UPW	I09

TRINITY_DN12914_c1_g1::TRINITY_DN12914_c1_g1_i4::g.17252::m.17252	PF00403.25	HMA	MER0592272	family I13 unassigned peptidase inhibitors	I13.UPW	I13
TRINITY_DN17501_c0_g2::TRINITY_DN17501_c0_g2_i6::g.84659::m.84659	PF02225.21	PA	MER0642455	family I15 unassigned peptidase inhibitors	I15.UPW	I15
TRINITY_DN12993_c1_g1::TRINITY_DN12993_c1_g1_i9::g.18389::m.18389	PF16845.4	SQAPI	MER0628337	phytocystatin	I25.014	I25B
TRINITY_DN13585_c0_g1::TRINITY_DN13585_c0_g1_i3::g.25706::m.25706			MER0680968	subfamily I25A unassigned peptidase inhibitors	I25.UPA	I25A
TRINITY_DN17227_c2_g4::TRINITY_DN17227_c2_g4_i1::g.80549::m.80549	PF01565.22	FAD_binding_4	MER0659912	family I29 unassigned peptidase inhibitors	I29.UPW	I29
TRINITY_DN19911_c7_g2::TRINITY_DN19911_c7_g2_i3::g.126024::m.126024	PF08031.11	BBE	MER0659912	family I29 unassigned peptidase inhibitors	I29.UPW	I29
TRINITY_DN11854_c0_g1::TRINITY_DN11854_c0_g1_i1::g.9190::m.9190	PF00085.19	Thioredoxin	MER0546787	family I39 unassigned peptidase inhibitors	I39.UPW	I39
TRINITY_DN11049_c0_g1::TRINITY_DN11049_c0_g1_i1::g.6211::m.6211	PF01161.19	PBP	MER0785675	family I51 unassigned peptidase inhibitors	I51.UPW	I51
TRINITY_DN17913_c4_g1::TRINITY_DN17913_c4_g1_i1::g.91856::m.91856	PF03009.16	GDPD	MER0604943	family I71 unassigned peptidase inhibitors	I71.UPW	I71
TRINITY_DN15085_c0_g2::TRINITY_DN15085_c0_g2_i3::g.46604::m.46604			MER0134791	alanyl aminopeptidase	M01.005	M01
TRINITY_DN12654_c0_g3::TRINITY_DN12654_c0_g3_i5::g.14722::m.14722	PF01433.19	Peptidase_M1	MER0336326	family M1 unassigned peptidases	M01.UPW	M01
TRINITY_DN16376_c0_g2::TRINITY_DN16376_c0_g2_i2::g.66583::m.66583	PF01433.19	Peptidase_M1	MER0412570	family M1 unassigned peptidases	M01.UPW	M01
TRINITY_DN18531_c0_g1::TRINITY_DN18531_c0_g1_i4::g.102214::m.102214	PF01433.19	Peptidase_M1	MER0171524	family M1 unassigned peptidases	M01.UPW	M01
TRINITY_DN19263_c0_g1::TRINITY_DN19263_c0_g1_i6::g.114813::m.114813	PF01432.19	Peptidase_M3	MER0546417	oligopeptidase A	M03.004	M03A
TRINITY_DN19263_c0_g3::TRINITY_DN19263_c0_g3_i4::g.114811::m.114811	PF01432.19	Peptidase_M3	MER0511610	oligopeptidase A	M03.004	M03A
TRINITY_DN19263_c0_g1::TRINITY_DN19263_c0_g1_i2::g.114802::m.114802	PF01432.19	Peptidase_M3	MER0818462	subfamily M3A unassigned peptidases	M03.UPA	M03A
TRINITY_DN19263_c0_g3::TRINITY_DN19263_c0_g3_i3::g.114810::m.114810	PF01432.19	Peptidase_M3	MER0820311	subfamily M3A unassigned peptidases	M03.UPA	M03A
TRINITY_DN18434_c0_g1::TRINITY_DN18434_c0_g1_i17::g.100395::m.100395	PF08324.10	PUL	MER0273962	griselysin	M04.017	M04
TRINITY_DN13918_c1_g1::TRINITY_DN13918_c1_g1_i8::g.30345::m.30345	PF01851.21	PC_rep	MER1206231	subfamily M10A unassigned peptidases	M10.UPA	M10A
TRINITY_DN17204_c0_g1::TRINITY_DN17204_c0_g1_i8::g.80281::m.80281	PF00675.19	Peptidase_M16	MER0923033	subfamily M16B unassigned peptidases	M16.UPB	M16B

TRINITY_DN16381_c2_g1::TRINITY_DN16381_c2_g1_i3::g.66693::m.66693	PF05193.20	Peptidase_M16_C	MER0504856	subfamily M16C unassigned peptidases	M16.UPC	M16C
TRINITY_DN15589_c0_g1::TRINITY_DN15589_c0_g1_i4::g.54099::m.54099	PF00883.20	Peptidase_M17	MER0659646	leucyl aminopeptidase	M17.002	M17
TRINITY_DN12445_c0_g2::TRINITY_DN12445_c0_g2_i13::g.12955::m.12955	PF02127.14	Peptidase_M18	MER0900398	family M18 unassigned peptidases	M18.UPW	M18
TRINITY_DN12030_c0_g1::TRINITY_DN12030_c0_g1_i2::g.10080::m.10080	PF01546.27	Peptidase_M20	MER0015308	subfamily M20A unassigned peptidases	M20.UPA	M20A
TRINITY_DN13264_c3_g1::TRINITY_DN13264_c3_g1_i4::g.21666::m.21666	PF01546.27	Peptidase_M20	MER0622135	subfamily M20A unassigned peptidases	M20.UPA	M20A
TRINITY_DN18313_c3_g2::TRINITY_DN18313_c3_g2_i2::g.98848::m.98848	PF01546.27	Peptidase_M20	MER0550674	subfamily M20A unassigned peptidases	M20.UPA	M20A
TRINITY_DN16272_c1_g2::TRINITY_DN16272_c1_g2_i3::g.64808::m.64808	PF01546.27	Peptidase_M20	MER0588973	family M20 unassigned peptidases	M20.UPW	M20X
TRINITY_DN17082_c4_g2::TRINITY_DN17082_c4_g2_i2::g.78169::m.78169	PF08172.11	CASP_C	MER1150565	subfamily M23B unassigned peptidases	M23.UPB	M23B
TRINITY_DN19972_c2_g1::TRINITY_DN19972_c2_g1_i3::g.126916::m.126916	PF00141.22	peroxidase	MER0233833	subfamily M23B unassigned peptidases	M23.UPB	M23B
TRINITY_DN17383_c0_g1::TRINITY_DN17383_c0_g1_i3::g.82754::m.82754	PF00557.23	Peptidase_M24	MER0536976	methionyl aminopeptidase 1	M24.001	M24A
TRINITY_DN16453_c2_g1::TRINITY_DN16453_c2_g1_i14::g.67807::m.67807	PF00557.23	Peptidase_M24	MER0189826	Xaa-Pro dipeptidase	M24.007	M24B
TRINITY_DN18526_c1_g2::TRINITY_DN18526_c1_g2_i7::g.101942::m.101942	PF01321.17	Creatinase_N	MER0650756	At4g36760 g.p.	M24.037	M24B
TRINITY_DN16102_c2_g2::TRINITY_DN16102_c2_g2_i1::g.62195::m.62195			MER0168264	proliferation-association protein 1	M24.973	M24X
TRINITY_DN18982_c0_g1::TRINITY_DN18982_c0_g1_i8::g.109877::m.109877	PF00557.23	Peptidase_M24	MER0176444	proliferation-association protein 1	M24.973	M24X
TRINITY_DN11213_c0_g1::TRINITY_DN11213_c0_g1_i2::g.6642::m.6642	PF03868.14	Ribosomal_L6e_N	MER0512373	subfamily M24B unassigned peptidases	M24.UPB	M24B
TRINITY_DN17307_c3_g1::TRINITY_DN17307_c3_g1_i2::g.81691::m.81691	PF01979.19	Amidohydro_1	MER0622001	family M38 unassigned peptidases	M38.UPW	M38
TRINITY_DN19286_c0_g1::TRINITY_DN19286_c0_g1_i3::g.115330::m.115330	PF00293.27	NUDIX	MER0627730	family M49 unassigned peptidases	M49.UPW	M49
TRINITY_DN17014_c1_g3::TRINITY_DN17014_c1_g3_i2::g.77015::m.77015	PF01398.20	JAB	MER0570062	Mername-AA168 protein	M67.971	M67X
TRINITY_DN11643_c0_g1::TRINITY_DN11643_c0_g1_i1::g.8230::m.8230	PF01398.20	JAB	MER0905581	subfamily M67A unassigned peptidases	M67.UPA	M67A
TRINITY_DN18281_c0_g1::TRINITY_DN18281_c0_g1_i4::g.98025::m.98025	PF04563.14	RNA_pol_Rpb2_1	MER0195833	family N11 unassigned peptide lyases	N11.UPW	N11

TRINITY_DN13916_c2_g1::TRINITY_DN13916_c2_g1_i2::g.30380::m.30380	PF00565.16	SNase	MER0573000	subfamily S1A unassigned peptidases	S01.UPA	S01A
TRINITY_DN16993_c0_g2::TRINITY_DN16993_c0_g2_i2::g.76741::m.76741	PF00082.21	Peptidase_S8	MER0621382	ARA12 peptidase	S08.112	S08A
TRINITY_DN17067_c1_g2::TRINITY_DN17067_c1_g2_i1::g.77892::m.77892	PF00082.21	Peptidase_S8	MER0570101	ARA12 peptidase	S08.112	S08A
TRINITY_DN13334_c3_g4::TRINITY_DN13334_c3_g4_i1::g.22910::m.22910	PF00082.21	Peptidase_S8	MER0551416	AIR3 peptidase	S08.119	S08A
TRINITY_DN19475_c9_g3::TRINITY_DN19475_c9_g3_i3::g.118615::m.118615	PF00082.21	Peptidase_S8	MER0511553	AIR3 peptidase	S08.119	S08A
TRINITY_DN19995_c2_g1::TRINITY_DN19995_c2_g1_i2::g.127478::m.127478	PF00082.21	Peptidase_S8	MER0500511	At4g00230	S08.A14	S08A
TRINITY_DN16581_c1_g3::TRINITY_DN16581_c1_g3_i2::g.69928::m.69928	PF00082.21	Peptidase_S8	MER0511501	At5g59810	S08.A26	S08A
TRINITY_DN13334_c3_g1::TRINITY_DN13334_c3_g1_i2::g.22908::m.22908	PF00082.21	Peptidase_S8	MER0039101	At1g32980	S08.A31	S08A
TRINITY_DN19475_c9_g1::TRINITY_DN19475_c9_g1_i7::g.118616::m.118616	PF00082.21	Peptidase_S8	MER0039101	At1g32980	S08.A31	S08A
TRINITY_DN10710_c0_g1::TRINITY_DN10710_c0_g1_i1::g.5355::m.5355			MER0622172	subfamily S8A unassigned peptidases	S08.UPA	S08A
TRINITY_DN12154_c0_g1::TRINITY_DN12154_c0_g1_i6::g.10864::m.10864			MER0592913	subfamily S8A unassigned peptidases	S08.UPA	S08A
TRINITY_DN15525_c0_g1::TRINITY_DN15525_c0_g1_i8::g.53299::m.53299	PF00082.21	Peptidase_S8	MER0544355	subfamily S8A unassigned peptidases	S08.UPA	S08A
TRINITY_DN17241_c0_g1::TRINITY_DN17241_c0_g1_i1::g.80827::m.80827	PF00082.21	Peptidase_S8	MER0621966	subfamily S8A unassigned peptidases	S08.UPA	S08A
TRINITY_DN18618_c2_g1::TRINITY_DN18618_c2_g1_i14::g.103865::m.103865	PF00082.21	Peptidase_S8	MER0979912	subfamily S8A unassigned peptidases	S08.UPA	S08A
TRINITY_DN18634_c2_g1::TRINITY_DN18634_c2_g1_i4::g.104214::m.104214	PF00082.21	Peptidase_S8	MER0495288	subfamily S8A unassigned peptidases	S08.UPA	S08A
TRINITY_DN19405_c0_g1::TRINITY_DN19405_c0_g1_i2::g.117368::m.117368			MER0527005	subfamily S8A unassigned peptidases	S08.UPA	S08A
TRINITY_DN16996_c2_g1::TRINITY_DN16996_c2_g1_i5::g.76760::m.76760	PF02897.14	Peptidase_S9_N	MER0180801	prolyl oligopeptidase	S09.001	S09A
TRINITY_DN11898_c0_g1::TRINITY_DN11898_c0_g1_i2::g.9380::m.9380	PF00326.20	Peptidase_S9	MER0627651	tyrosyl aminopeptidase	S09.074	S09C
TRINITY_DN12879_c0_g1::TRINITY_DN12879_c0_g1_i1::g.16746::m.16746	PF00756.19	Esterase	MER0622192	S-formylglutathione hydrolase FrmB	S09.940	S09B
TRINITY_DN17454_c3_g1::TRINITY_DN17454_c3_g1_i1::g.84103::m.84103	PF07859.12	Abhydrolase_3	MER0500509	At2g45600	S09.A07	S09X

TRINITY_DN16462_c1_g1::TRINITY_DN16462_c1_g1_i7::g.68028::m.68028	PF02230.15	Abhydrolase_2	MER0209135	AT5G20060 protein	S09.A56	S09X
TRINITY_DN14491_c1_g5::TRINITY_DN14491_c1_g5_i7::g.37912::m.37912	PF00326.20	Peptidase_S9	MER0413191	subfamily S9A unassigned peptidases	S09.UPA	S09A
TRINITY_DN13205_c0_g1::TRINITY_DN13205_c0_g1_i3::g.21053::m.21053	PF07859.12	Abhydrolase_3	MER0588552	subfamily S9C unassigned peptidases	S09.UPC	S09C
TRINITY_DN13729_c0_g1::TRINITY_DN13729_c0_g1_i8::g.27674::m.27674	PF07859.12	Abhydrolase_3	MER0511717	subfamily S9C unassigned peptidases	S09.UPC	S09C
TRINITY_DN15900_c2_g1::TRINITY_DN15900_c2_g1_i1::g.57240::m.57240	PF00326.20	Peptidase_S9	MER1300318	subfamily S9C unassigned peptidases	S09.UPC	S09C
TRINITY_DN17776_c0_g1::TRINITY_DN17776_c0_g1_i2::g.89550::m.89550	PF07859.12	Abhydrolase_3	MER0621913	subfamily S9C unassigned peptidases	S09.UPC	S09C
TRINITY_DN17776_c1_g1::TRINITY_DN17776_c1_g1_i2::g.89554::m.89554	PF07859.12	Abhydrolase_3	MER0621926	subfamily S9C unassigned peptidases	S09.UPC	S09C
TRINITY_DN19388_c2_g2::TRINITY_DN19388_c2_g2_i2::g.117003::m.117003	PF07859.12	Abhydrolase_3	MER0621926	subfamily S9C unassigned peptidases	S09.UPC	S09C
TRINITY_DN15072_c0_g1::TRINITY_DN15072_c0_g1_i2::g.46447::m.46447	PF00400.31	WD40	MER0156515	family S9 unassigned peptidases	S09.UPW	S09X
TRINITY_DN16577_c0_g1::TRINITY_DN16577_c0_g1_i6::g.69863::m.69863	PF12146.7	Hydrolase_4	MER0583385	family S9 unassigned peptidases	S09.UPW	S09X
TRINITY_DN17928_c2_g1::TRINITY_DN17928_c2_g1_i2::g.92278::m.92278	PF02230.15	Abhydrolase_2	MER0588084	family S9 unassigned peptidases	S09.UPW	S09X
TRINITY_DN18181_c1_g1::TRINITY_DN18181_c1_g1_i2::g.96439::m.96439	PF12697.6	Abhydrolase_6	MER0639174	family S9 unassigned peptidases	S09.UPW	S09X
TRINITY_DN18181_c1_g1::TRINITY_DN18181_c1_g1_i3::g.96440::m.96440	PF12697.6	Abhydrolase_6	MER0639174	family S9 unassigned peptidases	S09.UPW	S09X
TRINITY_DN18783_c5_g1::TRINITY_DN18783_c5_g1_i3::g.106356::m.106356	PF00450.21	Peptidase_S10	MER0629092	serine carboxypeptidase C	S10.004	S10
TRINITY_DN15931_c0_g1::TRINITY_DN15931_c0_g1_i5::g.59103::m.59103	PF00450.21	Peptidase_S10	MER0425718	serine carboxypeptidase D	S10.005	S10
TRINITY_DN18581_c2_g1::TRINITY_DN18581_c2_g1_i1::g.102861::m.102861	PF00450.21	Peptidase_S10	MER0571188	serine carboxypeptidase III	S10.009	S10
TRINITY_DN12399_c0_g1::TRINITY_DN12399_c0_g1_i1::g.12011::m.12011	PF00450.21	Peptidase_S10	MER0637468	OsBISCPL1-type putative carboxypeptidase	S10.017	S10
TRINITY_DN19791_c7_g1::TRINITY_DN19791_c7_g1_i1::g.123736::m.123736	PF00450.21	Peptidase_S10	MER0546785	At3g63470	S10.A41	S10
TRINITY_DN19791_c7_g4::TRINITY_DN19791_c7_g4_i2::g.123739::m.123739	PF00450.21	Peptidase_S10	MER0660317	At3g63470	S10.A41	S10
TRINITY_DN18581_c2_g2::TRINITY_DN18581_c2_g2_i8::g.102871::m.102871	PF00450.21	Peptidase_S10	MER0943604	family S10 unassigned peptidases	S10.UPW	S10

TRINITY_DN18581_c2_g2::TRINITY_DN18581_c2_g2_i16::g.102885::m.102885	PF00450.21	Peptidase_S10	MER0943604	family S10 unassigned peptidases	S10.UPW	S10
TRINITY_DN19589_c2_g2::TRINITY_DN19589_c2_g2_i4::g.120310::m.120310	PF00109.25	ketoacyl-synt	MER0947272	family S10 unassigned peptidases	S10.UPW	S10
TRINITY_DN19596_c1_g1::TRINITY_DN19596_c1_g1_i8::g.120430::m.120430	PF00450.21	Peptidase_S10	MER0943128	family S10 unassigned peptidases	S10.UPW	S10
TRINITY_DN19909_c0_g1::TRINITY_DN19909_c0_g1_i3::g.126119::m.126119	PF08263.11	LRRNT_2	MER0350329	family S10 unassigned peptidases	S10.UPW	S10
TRINITY_DN16339_c2_g2::TRINITY_DN16339_c2_g2_i2::g.65998::m.65998	PF02190.15	LON_substr_bdg	MER1036228	family S16 unassigned peptidases	S16.UPW	S16
TRINITY_DN17970_c3_g1::TRINITY_DN17970_c3_g1_i6::g.92954::m.92954	PF05577.11	Peptidase_S28	MER0143936	AT5g65760	S28.A02	S28
TRINITY_DN14658_c2_g1::TRINITY_DN14658_c2_g1_i2::g.40152::m.40152	PF05577.11	Peptidase_S28	MER1054347	family S28 unassigned peptidases	S28.UPW	S28
TRINITY_DN11909_c0_g1::TRINITY_DN11909_c0_g1_i2::g.9470::m.9470	PF00561.19	Abhydrolase_1	MER0622092	family S33 unassigned peptidases	S33.UPW	S33
TRINITY_DN15133_c0_g1::TRINITY_DN15133_c0_g1_i1::g.47252::m.47252	PF00561.19	Abhydrolase_1	MER1334561	family S33 unassigned peptidases	S33.UPW	S33
TRINITY_DN16306_c1_g1::TRINITY_DN16306_c1_g1_i3::g.65480::m.65480			MER0551075	family S33 unassigned peptidases	S33.UPW	S33
TRINITY_DN16306_c1_g2::TRINITY_DN16306_c1_g2_i2::g.65481::m.65481	PF00561.19	Abhydrolase_1	MER0639178	family S33 unassigned peptidases	S33.UPW	S33
TRINITY_DN16971_c2_g1::TRINITY_DN16971_c2_g1_i8::g.76469::m.76469	PF08538.9	DUF1749	MER0624846	family S33 unassigned peptidases	S33.UPW	S33
TRINITY_DN16987_c2_g1::TRINITY_DN16987_c2_g1_i9::g.76589::m.76589	PF00561.19	Abhydrolase_1	MER0633901	family S33 unassigned peptidases	S33.UPW	S33
TRINITY_DN17369_c1_g1::TRINITY_DN17369_c1_g1_i7::g.82610::m.82610	PF00227.25	Proteasome	MER0172841	proteasome subunit beta1c	T01.010	T01A
TRINITY_DN15811_c0_g5::TRINITY_DN15811_c0_g5_i2::g.57331::m.57331	PF00227.25	Proteasome	MER0411684	proteasome subunit alpha 6	T01.971	T01A
TRINITY_DN18427_c1_g2::TRINITY_DN18427_c1_g2_i5::g.100438::m.100438	PF10584.8	Proteasome_A_N	MER0570712	proteasome subunit alpha 2	T01.972	T01A
TRINITY_DN13422_c4_g1::TRINITY_DN13422_c4_g1_i9::g.23675::m.23675	PF10584.8	Proteasome_A_N	MER0020043	proteasome subunit alpha 3	T01.977	T01A
TRINITY_DN17070_c2_g4::TRINITY_DN17070_c2_g4_i5::g.77858::m.77858	PF10584.8	Proteasome_A_N	MER0505546	Mername-AA242 peptidase homologue	T01.995	T01A
TRINITY_DN15141_c1_g1::TRINITY_DN15141_c1_g1_i2::g.47502::m.47502	PF00227.25	Proteasome	MER0173164	proteasome subunit beta2	T01.A02	T01A
TRINITY_DN10911_c0_g2::TRINITY_DN10911_c0_g2_i2::g.5805::m.5805	PF00227.25	Proteasome	MER0126199	PBE2 g.p.	T01.A10	T01A

TRINITY_DN14659_c0_g2::TRINITY_DN14659_c0_g2_i6::g.40081::m.40081	PF00227.25	Proteasome	MER0588910	psmB4-2 g.p.	T01.A13	T01X
TRINITY_DN12971_c4_g2::TRINITY_DN12971_c4_g2_i4::g.17979::m.17979	PF10584.8	Proteasome_A_N	MER0584369	subfamily T1A unassigned peptidases	T01.UPA	T01A
TRINITY_DN15811_c0_g2::TRINITY_DN15811_c0_g2_i2::g.57329::m.57329	PF10584.8	Proteasome_A_N	MER0637297	subfamily T1A unassigned peptidases	T01.UPA	T01A
TRINITY_DN17150_c2_g1::TRINITY_DN17150_c2_g1_i1::g.79329::m.79329	PF10584.8	Proteasome_A_N	MER0576836	subfamily T1A unassigned peptidases	T01.UPA	T01A
TRINITY_DN17150_c2_g1::TRINITY_DN17150_c2_g1_i7::g.79332::m.79332	PF10584.8	Proteasome_A_N	MER0576836	subfamily T1A unassigned peptidases	T01.UPA	T01A
TRINITY_DN15448_c0_g1::TRINITY_DN15448_c0_g1_i6::g.51979::m.51979	PF01960.17	ArgJ	MER0122168	ArgJ protein	T05.002	T05
TRINITY_DN15488_c1_g5::TRINITY_DN15488_c1_g5_i3::g.52738::m.52738	PF14226.5	DIOX_N	MER0576457	family T7 unassigned peptidases	T07.UPW	T07
TRINITY_DN19493_c1_g1::TRINITY_DN19493_c1_g1_i9::g.118079::m.118079	PF03171.19	2OG-FeII_Oxy	MER0576457	family T7 unassigned peptidases	T07.UPW	T07
TRINITY_DN14014_c3_g1::TRINITY_DN14014_c3_g1_i1::g.31362::m.31362	PF03080.14	Neprosin	MER0973935	family U74 unassigned peptidases	U74.UPW	U74
TRINITY_DN16195_c0_g1::TRINITY_DN16195_c0_g1_i3::g.63589::m.63589	PF03080.14	Neprosin	MER0973935	family U74 unassigned peptidases	U74.UPW	U74
TRINITY_DN16782_c2_g1::TRINITY_DN16782_c2_g1_i3::g.73171::m.73171	PF03080.14	Neprosin	MER1001725	family U74 unassigned peptidases	U74.UPW	U74
TRINITY_DN16782_c2_g2::TRINITY_DN16782_c2_g2_i4::g.73167::m.73167	PF03080.14	Neprosin	MER0973935	family U74 unassigned peptidases	U74.UPW	U74
TRINITY_DN19409_c5_g1::TRINITY_DN19409_c5_g1_i1::g.117472::m.117472	PF03080.14	Neprosin	MER0973935	family U74 unassigned peptidases	U74.UPW	U74
TRINITY_DN19409_c5_g5::TRINITY_DN19409_c5_g5_i2::g.117475::m.117475	PF03080.14	Neprosin	MER1001725	family U74 unassigned peptidases	U74.UPW	U74

Supplementary Table S17: Water soluble peptidases identified in Corylus pollen

Protein IDs	Pfam accession	Pfam family name	Merops accession	Merops family	source organism	Merops peptidase ID	Merops subfamily
TRINITY_DN10467_c0_g1_i1_1	PF14543.5	TAXi_N	MER0184554	nepenthesin	Vitis vinifera	A01.040	A01B
TRINITY_DN10590_c0_g2_i1_2	PF14543.5	TAXi_N	MER0372282	CDR1 peptidase	Prunus persica	A01.069	A01B
TRINITY_DN1993_c0_g1_i1_1			MER0511659	CDR1 peptidase	Prunus mume	A01.069	A01B
TRINITY_DN10194_c0_g1_i1_3	PF00026.22	Asp	MER0398222	At1g62290	Gossypium raimondii	A01.A02	A01A
TRINITY_DN1283_c0_g1_i1_3	PF00188.25	CAP	MER0228949	subfamily A1A unassigned peptidases	Debaryomyces hansenii	A01.UPA	A01A
TRINITY_DN10179_c0_g1_i1_1	PF04043.14	PMEI	MER0570148	family A2 unassigned peptidases	Cucumis sativus	A02.UPW	A02X
TRINITY_DN9853_c0_g2_i1_2	PF01095.18	Pectinesterase	MER0572141	family A2 unassigned peptidases	Cucumis melo	A02.UPW	A02X
TRINITY_DN5112_c0_g2_i3_3	PF00240.22	ubiquitin	MER0628276	subfamily A28A unassigned peptidases	Populus euphratica	A28.UPA	A28A
TRINITY_DN11279_c0_g2_i3_5	PF00112.22	Peptidase_C1	MER0660253	glycinain	Eucalyptus grandis	C01.022	C01A
TRINITY_DN9814_c0_g1_i2_2	PF00112.22	Peptidase_C1	MER0640046	cathepsin B, plant form	Nelumbo nucifera	C01.049	C01A
TRINITY_DN10303_c0_g1_i1_3	PF00112.22	Peptidase_C1	MER1161753	subfamily C1A unassigned peptidases	Juglans regia	C01.UPA	C01A
TRINITY_DN10919_c0_g1_i5_1	PF00112.22	Peptidase_C1	MER1161891	subfamily C1A unassigned peptidases	Cynara cardunculus	C01.UPA	C01A
TRINITY_DN11174_c0_g1_i5_1	PF00112.22	Peptidase_C1	MER1161383	subfamily C1A unassigned peptidases	Ziziphus jujuba	C01.UPA	C01A
TRINITY_DN11576_c1_g1_i1_2	PF00112.22	Peptidase_C1	MER0166880	subfamily C1A unassigned peptidases	Actinidia deliciosa	C01.UPA	C01A
TRINITY_DN7727_c0_g2_i1_3	PF00112.22	Peptidase_C1	MER1161346	subfamily C1A unassigned peptidases	Quercus suber	C01.UPA	C01A
TRINITY_DN8308_c0_g2_i1_2	PF00112.22	Peptidase_C1	MER1161707	subfamily C1A unassigned peptidases	Quercus suber	C01.UPA	C01A
TRINITY_DN9489_c0_g2_i1_2	PF00112.22	Peptidase_C1	MER1160989	subfamily C1A unassigned peptidases	Juglans regia	C01.UPA	C01A
TRINITY_DN10600_c0_g1_i1_5	PF04424.12	MINDY_DUB	MER0934028	FAM63B g.p.	Capsicum annuum	C115.002	C115
TRINITY_DN12921_c0_g1_i1_3			MER1170789	family C12 unassigned peptidases	Juglans regia	C12.UPW	C12
TRINITY_DN12921_c0_g1_i1_6	PF01088.20	Peptidase_C12	MER1170789	family C12 unassigned peptidases	Juglans regia	C12.UPW	C12
TRINITY_DN6323_c0_g1_i1_4	PF01650.17	Peptidase_C13	MER0691713	family C13 unassigned peptidases	Morus notabilis	C13.UPW	C13
TRINITY_DN7265_c0_g2_i5_2	PF00656.21	Peptidase_C14	MER0659855	subfamily C14B unassigned peptidases	Eucalyptus grandis	C14.UPB	C14B

TRINITY_DN9214_c0_g1_i3_1	PF00240.22	ubiquitin	MER0109705	UBP6 peptidase	Vitis vinifera	C19.094	C19
TRINITY_DN11267_c0_g1_i1_2	PF12481.7	DUF3700	MER0570230	family C44 unassigned peptidases	Cucumis sativus	C44.UPW	C44
TRINITY_DN8002_c0_g1_i1_2	PF02338.18	OTU	MER1128346	subfamily C85A unassigned peptidases	Glycine max	C85.UPA	C85A
TRINITY_DN6792_c0_g1_i2_5	PF02338.18	OTU	MER0744567	subfamily C85B unassigned peptidases	Prunus persica	C85.UPB	C85B
TRINITY_DN4761_c0_g1_i1_3	PF05903.13	Peptidase_C97	MER0660526	family C97 unassigned peptidases	Eucalyptus grandis	C97.UPW	C97
TRINITY_DN11097_c0_g1_i2_6	PF00079.19	Serpin	MER0758854	AtSerpin1	Morus notabilis	I04.087	I04
TRINITY_DN6915_c0_g2_i2_2	PF02704.13	GASA	MER0526833	family I8 unassigned peptidase inhibitors	Oryza brachyantha	I08.UPW	I08
TRINITY_DN9357_c0_g1_i1_4			MER0609806	family I8 unassigned peptidase inhibitors	Xenopus tropicalis	I08.UPW	I08
TRINITY_DN11161_c0_g2_i1_1	PF05922.15	Inhibitor_I9	MER0646935	family I9 unassigned peptidase inhibitors	Jatropha curcas	I09.UPW	I09
TRINITY_DN5978_c0_g1_i1_4	PF00403.25	HMA	MER0592272	family I13 unassigned peptidase inhibitors	Cicer arietinum	I13.UPW	I13
TRINITY_DN6677_c0_g2_i1_6	PF00280.17	potato_inhibit	MER0511491	family I13 unassigned peptidase inhibitors	Prunus mume	I13.UPW	I13
TRINITY_DN11259_c0_g1_i2_5	PF02225.21	PA	MER0642455	family I15 unassigned peptidase inhibitors	Musa acuminata	I15.UPW	I15
TRINITY_DN5250_c0_g1_i1_1	PF16845.4	SQAPI	MER0195773	phytocystatin	Hevea brasiliensis	I25.014	I25B
TRINITY_DN9738_c1_g1_i1_3	PF00031.20	Cystatin	MER0135396	phytocystatin	Populus trichocarpa	I25.014	I25B
TRINITY_DN10831_c0_g1_i1_3	PF16845.4	SQAPI	MER0511446	cystatin Hv-CPI5	Prunus mume	I25.054	I25B
TRINITY_DN8644_c0_g2_i1_1	PF16845.4	SQAPI	MER0593269	subfamily I25B unassigned peptidase inhibitors	Cicer arietinum	I25.UPB	I25B
TRINITY_DN9738_c2_g1_i2_3	PF16845.4	SQAPI	MER0622052	subfamily I25B unassigned peptidase inhibitors	Vitis vinifera	I25.UPB	I25B
TRINITY_DN11574_c0_g1_i5_3	PF01565.22	FAD_binding_4	MER0659912	family I29 unassigned peptidase inhibitors	Eucalyptus grandis	I29.UPW	I29
TRINITY_DN9962_c0_g2_i1_2	PF01565.22	FAD_binding_4	MER0659912	family I29 unassigned peptidase inhibitors	Eucalyptus grandis	I29.UPW	I29
TRINITY_DN17430_c0_g1_i1_5	PF01161.19	PBP	MER0785675	family I51 unassigned peptidase inhibitors	Citrus clementina	I51.UPW	I51
TRINITY_DN20395_c0_g2_i1_2			MER0571023	family I71 unassigned peptidase inhibitors	Cucumis sativus	I71.UPW	I71
TRINITY_DN5908_c0_g1_i1_3	PF01145.24	Band_7	MER0680924	family I87 unassigned peptidase inhibitors	Beta vulgaris	I87.UPW	I87
TRINITY_DN11601_c0_g2_i2_5	PF01433.19	Peptidase_M1	MER0412087	alanyl aminopeptidase	Nicotiana benthamiana	M01.005	M01

TRINITY_DN11240_c0_g2_i1_2	PF01433.19	Peptidase_M1	MER0412570	family M1 unassigned peptidases	Solanum tuberosum	M01.UPW	M01
TRINITY_DN3173_c0_g3_i1_1			MER0628627	oligopeptidase A	Populus euphratica	M03.004	M03A
TRINITY_DN3111_c0_g2_i1_2	PF01432.19	Peptidase_M3	MER0817154	subfamily M3A unassigned peptidases	Morus notabilis	M03.UPA	M03A
TRINITY_DN11191_c0_g1_i2_6	PF00883.20	Peptidase_M17	MER0659646	leucyl aminopeptidase	Eucalyptus grandis	M17.002	M17
TRINITY_DN11579_c0_g1_i2_1	PF01592.15	NifU_N	MER0474067	PepB aminopeptidase	Ceratitis capitata	M17.004	M17
TRINITY_DN2292_c0_g3_i1_5	PF00428.18	Ribosomal_60s	MER0890057	family M18 unassigned peptidases	Lachancea quebecensis	M18.UPW	M18
TRINITY_DN9076_c0_g2_i1_2	PF01546.27	Peptidase_M20	MER0015308	subfamily M20A unassigned peptidases	Arabidopsis thaliana	M20.UPA	M20A
TRINITY_DN4354_c0_g1_i1_4	PF15801.4	zf-C6H2	MER0161105	methionyl aminopeptidase 1	Drosophila simulans	M24.017	M24A
TRINITY_DN10807_c0_g1_i5_1	PF00557.23	Peptidase_M24	MER0093675	proliferation-association protein 1	Ammopiptanthus mongolicus	M24.973	M24X
TRINITY_DN12510_c0_g1_i1_1	PF13964.5	Kelch_6	MER0366613	subfamily S1A unassigned peptidases	Bos taurus	S01.UPA	S01A
TRINITY_DN9813_c0_g1_i1_2	PF00565.16	SNase	MER0573000	subfamily S1A unassigned peptidases	Corvus brachyrhynchos	S01.UPA	S01A
TRINITY_DN3347_c0_g1_i1_2	PF00082.21	Peptidase_S8	MER0570101	ARA12 peptidase	Citrus sinensis	S08.112	S08A
TRINITY_DN10388_c0_g2_i6_4	PF00082.21	Peptidase_S8	MER0511553	AIR3 peptidase	Prunus mume	S08.119	S08A
TRINITY_DN10388_c0_g2_i5_4	PF00082.21	Peptidase_S8	MER0511553	AIR3 peptidase	Prunus mume	S08.119	S08A
TRINITY_DN53_c0_g1_i1_5	PF00082.21	Peptidase_S8	MER0551416	AIR3 peptidase	Malus domestica	S08.119	S08A
TRINITY_DN10903_c0_g1_i6_2	PF00082.21	Peptidase_S8	MER0039101	At1g32980	Arachis hypogaea	S08.A31	S08A
TRINITY_DN9173_c0_g1_i1_4	PF00082.21	Peptidase_S8	MER0039101	At1g32980	Arachis hypogaea	S08.A31	S08A
TRINITY_DN10039_c0_g1_i2_2			MER0600777	subfamily S8A unassigned peptidases	Zea mays	S08.UPA	S08A
TRINITY_DN9297_c0_g3_i2_1			MER0571725	subfamily S8A unassigned peptidases	Cucumis melo	S08.UPA	S08A
TRINITY_DN9993_c0_g1_i2_4	PF00082.21	Peptidase_S8	MER0544355	subfamily S8A unassigned peptidases	Glycine max	S08.UPA	S08A
TRINITY_DN10694_c0_g1_i1_2	PF00756.19	Esterase	MER0622192	S-formylglutathione hydrolase FrmB	Vitis vinifera	S09.940	S09B

TRINITY_DN10196_c0_g1_i1_1	PF07859.12	Abhydrolase_3	MER0500863	At5g62180	Prunus mume	S09.A14	S09X
TRINITY_DN8778_c0_g1_i2_2	PF12146.7	Hydrolase_4	MER0499110	At3g47560	Prunus mume	S09.A31	S09X
TRINITY_DN8570_c0_g1_i2_1	PF02230.15	Abhydrolase_2	MER0209135	AT5G20060 protein	Ricinus communis	S09.A56	S09X
TRINITY_DN2451_c0_g1_i1_2	PF00326.20	Peptidase_S9	MER0413191	subfamily S9A unassigned peptidases	Solanum lycopersicum	S09.UPA	S09A
TRINITY_DN10971_c0_g1_i2_2	PF07676.11	PD40	MER0404572	subfamily S9B unassigned peptidases	Nectria haematococca	S09.UPB	S09B
TRINITY_DN11503_c0_g1_i1_1	PF07859.12	Abhydrolase_3	MER0588552	subfamily S9C unassigned peptidases	Citrus sinensis	S09.UPC	S09C
TRINITY_DN11503_c0_g1_i5_1	PF07859.12	Abhydrolase_3	MER0588552	subfamily S9C unassigned peptidases	Citrus sinensis	S09.UPC	S09C
TRINITY_DN8311_c0_g1_i1_6	PF07859.12	Abhydrolase_3	MER0659141	subfamily S9C unassigned peptidases	Eucalyptus grandis	S09.UPC	S09C
TRINITY_DN11588_c0_g1_i3_2	PF00400.31	WD40	MER0156515	family S9 unassigned peptidases	Dipodomys ordii	S09.UPW	S09X
TRINITY_DN6770_c0_g1_i2_3	PF12697.6	Abhydrolase_6	MER0650695	family S9 unassigned peptidases	Jatropha curcas	S09.UPW	S09X
TRINITY_DN8280_c0_g2_i1_2	PF02230.15	Abhydrolase_2	MER0588084	family S9 unassigned peptidases	Citrus sinensis	S09.UPW	S09X
TRINITY_DN2711_c0_g1_i1_3	PF00450.21	Peptidase_S10	MER0637468	OsBISCPL1-type putative carboxypeptidase	Nicotiana sylvestris	S10.017	S10
TRINITY_DN22082_c0_g1_i1_3	PF00450.21	Peptidase_S10	MER0629038	At3g63470	Populus euphratica	S10.A41	S10
TRINITY_DN2708_c0_g2_i1_1	PF00450.21	Peptidase_S10	MER0627870	At3g63470	Populus euphratica	S10.A41	S10
TRINITY_DN128_c0_g1_i1_1	PF00240.22	ubiquitin	MER0053503	family S16 unassigned peptidases	Pan troglodytes	S16.UPW	S16
TRINITY_DN20857_c0_g1_i1_2	PF13419.5	HAD_2	MER0230625	family S33 unassigned peptidases	Micromonospora sp. L5	S33.UPW	S33
TRINITY_DN2750_c0_g2_i1_2	PF13419.5	HAD_2	MER0230625	family S33 unassigned peptidases	Micromonospora sp. L5	S33.UPW	S33
TRINITY_DN5779_c0_g1_i1_2	PF00561.19	Abhydrolase_1	MER0588391	family S33 unassigned peptidases	Citrus sinensis	S33.UPW	S33
TRINITY_DN9585_c0_g1_i1_2	PF00561.19	Abhydrolase_1	MER1334561	family S33 unassigned peptidases	Juglans regia	S33.UPW	S33
TRINITY_DN6573_c0_g1_i1_4	PF01694.21	Rhomboid	MER1081552	family S54 unassigned peptidases	Brassica oleracea	S54.UPW	S54
TRINITY_DN9206_c0_g2_i1_1	PF01112.17	Asparaginase_2	MER0179633	family T2 unassigned peptidases	Ricinus communis	T02.UPW	T02
TRINITY_DN10088_c0_g2_i1_3	PF14226.5	DIOX_N	MER0576457	family T7 unassigned peptidases		T07.UPW	T07

TRINITY_DN11452_c0_g2_i2_2	PF14226.5	DIOX_N	MER0576457	family T7 unassigned peptidases		T07.UPW	T07
TRINITY_DN4171_c0_g2_i2_3	PF14226.5	DIOX_N	MER0576457	family T7 unassigned peptidases		T07.UPW	T07
TRINITY_DN2392_c0_g1_i1_2			MER0901042	family U74 unassigned peptidases	Gossypium arboreum	U74.UPW	U74

Supplementary Table S15: Water soluble peptidases identified in Alnus pollen

Protein IDs	Pfam accession	Pfam family name	Merops accession	Merops family	source organism	Merops peptidase ID	Merops subfamily
ARUBRA_DN3984_c0_g1_i1_3	PF00026.22	Asp	MER0680933	At1g62290	Arabidopsis thaliana-Gossypium arboreum	A01.A02	A01A
ARUBRA_DN14653_c0_g1_i1_5	PF14543.5	TAXi_N	MER0584129	At1g05840	Arabidopsis thaliana-type peptidase	A01.A34	A01B
ARUBRA_DN13846_c0_g1_i1_5	PF00026.22	Asp	MER1133951	subfamily A1A unassigned peptidases	Juglans regia	A01.UPA	A01A
ARUBRA_DN4385_c0_g1_i1_6	PF00188.25	CAP	MER0228949	subfamily A1A unassigned peptidases	Debaryomyces hansenii	A01.UPA	A01A
ARUBRA_DN2382_c0_g1_i1_2	PF01095.18	Pectinesterase	MER0570148	family A2 unassigned peptidases	Cucumis sativus	A02.UPW	A02X
ARHOMBI_DN3097_c0_g1_i2_1	PF01095.18	Pectinesterase	MER0572141	family A2 unassigned peptidases	Cucumis melo	A02.UPW	A02X
ARHOMBI_DN5536_c0_g1_i1_1	PF04043.14	PMEI	MER0570148	family A2 unassigned peptidases	Cucumis sativus	A02.UPW	A02X
ARUBRA_DN4454_c0_g1_i1_2	PF01095.18	Pectinesterase	MER0572141	family A2 unassigned peptidases	Cucumis melo	A02.UPW	A02X
ARUBRA_DN6197_c0_g1_i1_1	PF01095.18	Pectinesterase	MER0570148	family A2 unassigned peptidases	Cucumis sativus	A02.UPW	A02X
ARHOMBI_DN15828_c0_g1_i1_6	PF09668.9	Asp_protease	MER0628276	subfamily A28A unassigned peptidases	Populus euphratica	A28.UPA	A28A
ARUBRA_DN9894_c0_g1_i1_4	PF00112.22	Peptidase_C1	MER0660253	glycinain	Eucalyptus grandis	C01.022	C01A
ARUBRA_DN4725_c0_g1_i1_2	PF00112.22	Peptidase_C1	MER0640046	cathepsin B, plant form	Nelumbo nucifera	C01.049	C01A
ARHOMBI_DN5653_c0_g1_i1_4	PF00187.18	Chitin_bind_1	MER0428589	Cwp84 peptidase	Limonium bicolor	C01.125	C01A
ARUBRA_DN5882_c0_g1_i1_4	PF00112.22	Peptidase_C1	MER1164780	subfamily C1A unassigned peptidases	Juglans regia	C01.UPA	C01A
ARHOMBI_DN5775_c0_g1_i1_2	PF00112.22	Peptidase_C1	MER1160989	subfamily C1A unassigned peptidases	Juglans regia	C01.UPA	C01A
ARHOMBI_DN6144_c0_g1_i1_4	PF00112.22	Peptidase_C1	MER1161707	subfamily C1A unassigned peptidases	Quercus suber	C01.UPA	C01A
ARHOMBI_DN8306_c0_g1_i1_4	PF01088.20	Peptidase_C12	MER1170789	family C12 unassigned peptidases	Juglans regia	C12.UPW	C12
ARUBRA_DN21075_c0_g1_i1_5	PF01088.20	Peptidase_C12	MER1170789	family C12 unassigned peptidases	Juglans regia	C12.UPW	C12
ARHOMBI_DN15559_c0_g1_i1_1	PF00656.21	Peptidase_C14	MER0627629	subfamily C14B unassigned peptidases	Populus euphratica	C14.UPB	C14B

ARUBRA_DN9286_c0_g1_i1_1	PF12481.7	DUF3700	MER0038019	At4g27450	Arabidopsis thaliana-Arabidopsis thaliana	C44.A04	C44
ARUBRA_DN1786_c0_g1_i1_1	PF12481.7	DUF3700	MER0570230	family C44 unassigned peptidases	Cucumis sativus	C44.UPW	C44
ARHOMBI_DN1764_c0_g1_i1_5	PF00733.20	Asn_synthase	MER0037116	family C44 unassigned peptidases	Solanum lycopersicum	C44.UPW	C44
ARHOMBI_DN13057_c0_g1_i1_1	PF02338.18	OTU	MER0622165	OTU2 peptidase		C85.008	C85A
ARUBRA_DN10864_c0_g1_i1_2	PF02338.18	OTU	MER0546486	OTU2 peptidase	Saccharomyces cerevisiae}-type)	C85.008	C85A
ARHOMBI_DN3049_c0_g1_i1_5	PF02338.18	OTU	MER0744567	subfamily C85B unassigned peptidases	Prunus persica	C85.UPB	C85B
ARUBRA_DN23541_c0_g1_i1_3	PF05903.13	Peptidase_C97	MER0636972	family C97 unassigned peptidases	Nicotiana sylvestris	C97.UPW	C97
ARHOMBI_DN22144_c0_g1_i1_6	PF00079.19	Serpin	MER0758854	AtSerpin1	Arabidopsis thaliana-Morus notabilis	I04.087	I04
ARHOMBI_DN2725_c0_g1_i1_2	PF00079.19	Serpin	MER0180116	AtSerpin1	Arabidopsis thaliana-Ricinus communis	I04.087	I04
ARUBRA_DN43_c0_g2_i1_6	PF02704.13	GASA	MER0526833	family I8 unassigned peptidase inhibitors	Oryza brachyantha	I08.UPW	I08
ARUBRA_DN4751_c0_g1_i2_6	PF00187.18	Chitin_bind_1	MER0449312	family I8 unassigned peptidase inhibitors	Tarenaya hassleriana	I08.UPW	I08
ARHOMBI_DN4937_c0_g3_i1_5	PF05922.15	Inhibitor_I9	MER0628798	family I9 unassigned peptidase inhibitors	Populus euphratica	I09.UPW	I09
ARHOMBI_DN5986_c0_g1_i2_6	PF00403.25	HMA	MER0592272	family I13 unassigned peptidase inhibitors	Cicer arietinum	I13.UPW	I13
ARHOMBI_DN6080_c1_g1_i1_1	PF16845.4	SQAPI	MER0178254	phytocystatin	Ricinus communis	I25.014	I25B
ARHOMBI_DN6132_c0_g5_i1_3	PF16845.4	SQAPI	MER0628337	phytocystatin	Populus euphratica	I25.014	I25B
ARUBRA_DN3020_c0_g1_i1_1	PF16845.4	SQAPI	MER0622052	subfamily I25B unassigned peptidase inhibitors	Vitis vinifera	I25.UPB	I25B
ARUBRA_DN4799_c0_g1_i1_4	PF16845.4	SQAPI	MER0172552	subfamily I25B unassigned peptidase inhibitors	Vitis vinifera	I25.UPB	I25B
ARUBRA_DN5778_c0_g1_i1_4	PF03009.16	GDPD	MER0604943	family I71 unassigned peptidase inhibitors	Cryptosporidium parvum	I71.UPW	I71
ARHOMBI_DN20074_c0_g1_i1_1	PF01433.19	Peptidase_M1	MER1182093	family M1 unassigned peptidases	Corchorus capsularis	M01.UPW	M01

ARHOMBI_DN2375_c0_g1_i1_6			MER0412570	family M1 unassigned peptidases	Solanum tuberosum	M01.UPW	M01
ARHOMBI_DN25003_c0_g1_i1_6	PF01433.19	Peptidase_M1	MER0484433	family M1 unassigned peptidases	Tarenaya hassleriana	M01.UPW	M01
ARHOMBI_DN4645_c0_g2_i1_4	PF01433.19	Peptidase_M1	MER1116733	family M1 unassigned peptidases	Brachypodium distachyon	M01.UPW	M01
ARHOMBI_DN4645_c1_g1_i1_2	PF01433.19	Peptidase_M1	MER0812872	family M1 unassigned peptidases	Gossypium raimondii	M01.UPW	M01
ARHOMBI_DN8832_c0_g1_i1_6	PF01433.19	Peptidase_M1	MER0336326	family M1 unassigned peptidases	Sorghum bicolor	M01.UPW	M01
ARUBRA_DN18651_c0_g1_i1_6			MER0135621	family M1 unassigned peptidases	Populus trichocarpa	M01.UPW	M01
ARUBRA_DN2825_c0_g1_i1_4			MER0412570	family M1 unassigned peptidases	Solanum tuberosum	M01.UPW	M01
ARUBRA_DN4026_c0_g1_i1_5	PF01433.19	Peptidase_M1	MER0413560	family M1 unassigned peptidases	Solanum lycopersicum	M01.UPW	M01
ARHOMBI_DN17898_c0_g1_i1_3	PF01432.19	Peptidase_M3	MER0817958	subfamily M3A unassigned peptidases	Prunus persica	M03.UPA	M03A
ARUBRA_DN20709_c0_g1_i1_5	PF01432.19	Peptidase_M3	MER0817154	subfamily M3A unassigned peptidases	Morus notabilis	M03.UPA	M03A
ARUBRA_DN10159_c0_g1_i1_5	PF00675.19	Peptidase_M16	MER0923033	subfamily M16B unassigned peptidases	Gossypium arboreum	M16.UPB	M16B
ARHOMBI_DN15373_c0_g1_i1_5	PF00883.20	Peptidase_M17	MER0659646	leucyl aminopeptidase	Eucalyptus grandis	M17.002	M17
ARUBRA_DN1745_c0_g2_i1_1			MER0621905	subfamily M20A unassigned peptidases	Vitis vinifera	M20.UPA	M20A
ARUBRA_DN16568_c0_g1_i1_3	PF01344.24	Kelch_1	MER0366613	subfamily S1A unassigned peptidases	Bos taurus	S01.UPA	S01A
ARHOMBI_DN7219_c0_g1_i1_3			MER0975537	ARA12 peptidase	Ricinus communis	S08.112	S08A
ARUBRA_DN18006_c0_g1_i1_4	PF00082.21	Peptidase_S8	MER0975537	ARA12 peptidase	Ricinus communis	S08.112	S08A
ARHOMBI_DN11662_c0_g1_i1_4			MER0546828	At3g14067	Arabidopsis thaliana-Fragaria vesca	S08.A28	S08A
ARHOMBI_DN11775_c0_g1_i1_1			MER0024767	At1g32980	Arabidopsis thaliana-Arabidopsis thaliana	S08.A31	S08A

ARUBRA_DN17897_c0_g1_i1_5	PF00082.21	Peptidase_S8	MER0039101	At1g32980	Arabidopsis thaliana-Arachis hypogaea	S08.A31	S08A
ARUBRA_DN2819_c0_g1_i1_3			MER0536974	At5g23530	Arabidopsis thaliana-Glycine max	S09.A10	S09C
ARUBRA_DN12422_c0_g1_i1_2	PF07859.12	Abhydrolase_3	MER0500863	At5g62180	Arabidopsis thaliana-Prunus mume	S09.A14	S09X
ARHOMBI_DN2479_c0_g1_i1_1			MER0499110	At3g47560	Arabidopsis thaliana-Prunus mume	S09.A31	S09X
ARHOMBI_DN3938_c0_g1_i1_4	PF02230.15	Abhydrolase_2	MER0209135	AT5G20060 protein	Arabidopsis thaliana-Ricinus communis	S09.A56	S09X
ARUBRA_DN9538_c0_g1_i1_1	PF12146.7	Hydrolase_4	MER0621993	F14F18_80 protein	Arabidopsis thaliana-Vitis vinifera	S09.A58	S09B
ARHOMBI_DN19693_c0_g1_i1_6	PF07859.12	Abhydrolase_3	MER0511717	subfamily S9C unassigned peptidases	Prunus mume	S09.UPC	S09C
ARUBRA_DN18800_c0_g2_i1_4	PF07859.12	Abhydrolase_3	MER0621926	subfamily S9C unassigned peptidases	Vitis vinifera	S09.UPC	S09C
ARUBRA_DN19739_c0_g2_i1_3	PF07859.12	Abhydrolase_3	MER0592815	subfamily S9C unassigned peptidases	Cicer arietinum	S09.UPC	S09C
ARUBRA_DN21696_c0_g1_i1_3	PF07859.12	Abhydrolase_3	MER0588552	subfamily S9C unassigned peptidases	Citrus sinensis	S09.UPC	S09C
ARHOMBI_DN3877_c0_g1_i1_1	PF02230.15	Abhydrolase_2	MER0588084	family S9 unassigned peptidases	Citrus sinensis	S09.UPW	S09X
ARHOMBI_DN478_c0_g2_i1_6	PF00756.19	Esterase	MER0651049	family S9 unassigned peptidases	Jatropha curcas	S09.UPW	S09X
ARUBRA_DN162_c0_g1_i1_1	PF12697.6	Abhydrolase_6	MER0650695	family S9 unassigned peptidases	Jatropha curcas	S09.UPW	S09X
ARUBRA_DN18867_c0_g1_i1_5	PF00400.31	WD40	MER0156515	family S9 unassigned peptidases	Dipodomys ordii	S09.UPW	S09X
ARUBRA_DN4594_c0_g2_i1_4	PF00450.21	Peptidase_S10	MER0592987	serine carboxypeptidase C	Cicer arietinum	S10.004	S10
ARUBRA_DN16761_c0_g1_i1_6	PF00450.21	Peptidase_S10	MER0539743	serine carboxypeptidase D	Sesamum indicum	S10.005	S10
ARUBRA_DN2627_c0_g1_i1_2	PF00450.21	Peptidase_S10	MER0660303	serine carboxypeptidase III	Eucalyptus grandis	S10.009	S10
ARUBRA_DN22266_c0_g1_i1_1	PF00450.21	Peptidase_S10	MER0177780	OsBISCPL1-type putative carboxypeptidase	Ricinus communis	S10.017	S10
ARHOMBI_DN6202_c0_g1_i2_4	PF00450.21	Peptidase_S10	MER0551973	At3g63470	Arabidopsis thaliana-Malus domestica	S10.A41	S10

ARUBRA_DN4832_c0_g1_i1_2	PF00450.21	Peptidase_S10	MER0637561	At3g63470	Arabidopsis thaliana-Nicotiana sylvestris	S10.A41	S10
ARUBRA_DN4961_c0_g1_i2_4	PF00450.21	Peptidase_S10	MER0551973	At3g63470	Arabidopsis thaliana-Malus domestica	S10.A41	S10
ARHOMBI_DN25343_c0_g1_i1_2	PF00450.21	Peptidase_S10	MER0942946	family S10 unassigned peptidases	Erythranthe guttata	S10.UPW	S10
ARHOMBI_DN430_c0_g1_i1_3	PF00574.22	CLP_protease	MER0639468	peptidase Clp	Nelumbo nucifera	S14.001	S14
ARUBRA_DN13110_c0_g1_i1_1	PF13419.5	HAD_2	MER0201475	cytosolic epoxide hydrolase		S33.973	S33
ARHOMBI_DN3967_c0_g1_i1_1	PF13419.5	HAD_2	MER0230625	family S33 unassigned peptidases	Micromonospora sp. L5	S33.UPW	S33
ARUBRA_DN4582_c0_g1_i1_5	PF00561.19	Abhydrolase_1	MER0588391	family S33 unassigned peptidases	Citrus sinensis	S33.UPW	S33
ARUBRA_DN1522_c0_g1_i1_5	PF00561.19	Abhydrolase_1	MER1336005	family S33 unassigned peptidases	Vigna radiata	S33.UPW	S33
ARUBRA_DN2934_c0_g2_i2_4	PF05670.12	DUF814	MER0599089	family S33 unassigned peptidases	Echinops telfairi	S33.UPW	S33
ARUBRA_DN7781_c0_g1_i1_6	PF02817.16	E3_binding	MER0094490	family S33 unassigned peptidases	Sinorhizobium medicae	S33.UPW	S33
ARUBRA_DN4073_c0_g1_i1_2	PF10584.8	Proteasome_A_N	MER0461296	proteasome subunit alpha 1	Glycine max	T01.976	T01A
ARUBRA_DN18881_c0_g1_i1_2	PF10584.8	Proteasome_A_N	MER0505546	Mername-AA242 peptidase homologue	Mus musculus-Prunus mume	T01.995	T01A
ARHOMBI_DN6139_c0_g1_i1_4	PF10584.8	Proteasome_A_N	MER0576836	subfamily T1A unassigned peptidases		T01.UPA	T01A
ARHOMBI_DN3876_c0_g1_i1_6	PF14226.5	DIOX_N	MER0576457	family T7 unassigned peptidases		T07.UPW	T07

Supplementary Table S16: Peptidases exclusively identified in water extracted Alnus pollen

Protein IDs	Pfam accession	Pfam family name	Merops accession	Merops family	source organism	Merops peptidase ID	Merops subfamily
ARUBRA_DN14653_c0_g1_i1_5	PF14543.5	TAXi_N	MER0584129	At1g05840	Arabidopsis thaliana-type peptidase	A01.A34	A01B
ARHOMBI_DN3097_c0_g1_i2_1	PF01095.18	Pectinesterase	MER0572141	family A2 unassigned peptidases	Cucumis melo	A02.UPW	A02X
ARHOMBI_DN5536_c0_g1_i1_1	PF04043.14	PMEI	MER0570148	family A2 unassigned peptidases	Cucumis sativus	A02.UPW	A02X
ARUBRA_DN6197_c0_g1_i1_1	PF01095.18	Pectinesterase	MER0570148	family A2 unassigned peptidases	Cucumis sativus	A02.UPW	A02X
ARUBRA_DN4725_c0_g1_i1_2	PF00112.22	Peptidase_C1	MER0640046	cathepsin B, plant form	Nelumbo nucifera	C01.049	C01A
ARHOMBI_DN5653_c0_g1_i1_4	PF00187.18	Chitin_bind_1	MER0428589	Cwp84 peptidase	Limonium bicolor	C01.125	C01A
ARUBRA_DN10864_c0_g1_i1_2	PF02338.18	OTU	MER0546486	OTU2 peptidase	Saccharomyces cerevisiae}-type)	C85.008	C85A
ARUBRA_DN23541_c0_g1_i1_3	PF05903.13	Peptidase_C97	MER0636972	family C97 unassigned peptidases	Nicotiana sylvestris	C97.UPW	C97
ARHOMBI_DN13880_c0_g1_i1_4	PF00079.19	Serpin	MER0756064	AtSerpin1	Arabidopsis thaliana-Vitis vinifera	I04.087	I04
ARUBRA_DN43_c0_g2_i1_6	PF02704.13	GASA	MER0526833	family I8 unassigned peptidase inhibitors	Oryza brachyantha	I08.UPW	I08
ARUBRA_DN4751_c0_g1_i2_6	PF00187.18	Chitin_bind_1	MER0449312	family I8 unassigned peptidase inhibitors	Tarenaya hassleriana	I08.UPW	I08
ARHOMBI_DN6132_c0_g5_i1_3	PF16845.4	SQAPI	MER0628337	phytocystatin	Populus euphratica	I25.014	I25B
ARUBRA_DN4799_c0_g1_i1_4	PF16845.4	SQAPI	MER0172552	subfamily I25B unassigned peptidase inhibitors	Vitis vinifera	I25.UPB	I25B
ARUBRA_DN2825_c0_g1_i1_4			MER0412570	family M1 unassigned peptidases	Solanum tuberosum	M01.UPW	M01
ARHOMBI_DN7219_c0_g1_i1_3			MER0975537	ARA12 peptidase	Ricinus communis	S08.112	S08A
ARHOMBI_DN11662_c0_g1_i1_4			MER0546828	At3g14067	Arabidopsis thaliana-Fragaria vesca	S08.A28	S08A
ARUBRA_DN2819_c0_g1_i1_3			MER0536974	At5g23530	Arabidopsis thaliana-Glycine max	S09.A10	S09C
ARUBRA_DN12422_c0_g1_i1_2	PF07859.12	Abhydrolase_3	MER0500863	At5g62180	Arabidopsis thaliana-Prunus mume	S09.A14	S09X

ARHOMBI_DN3938_c0_g1_i1_4	PF02230.15	Abhydrolase_2	MER0209135	AT5G20060 protein	Arabidopsis thaliana-Ricinus communis	S09.A56	S09X
ARHOMBI_DN19693_c0_g1_i1_6	PF07859.12	Abhydrolase_3	MER0511717	subfamily S9C unassigned peptidases	Prunus mume	S09.UPC	S09C
ARUBRA_DN21696_c0_g1_i1_3	PF07859.12	Abhydrolase_3	MER0588552	subfamily S9C unassigned peptidases	Citrus sinensis	S09.UPC	S09C
ARHOMBI_DN3877_c0_g1_i1_1	PF02230.15	Abhydrolase_2	MER0588084	family S9 unassigned peptidases	Citrus sinensis	S09.UPW	S09X
ARUBRA_DN16761_c0_g1_i1_6	PF00450.21	Peptidase_S10	MER0539743	serine carboxypeptidase D	Sesamum indicum	S10.005	S10
ARUBRA_DN22266_c0_g1_i1_1	PF00450.21	Peptidase_S10	MER0177780	OsBISCPL1-type putative carboxypeptidase	Ricinus communis	S10.017	S10
ARUBRA_DN4832_c0_g1_i1_2	PF00450.21	Peptidase_S10	MER0637561	At3g63470	Arabidopsis thaliana-Nicotiana sylvestris	S10.A41	S10
ARUBRA_DN13110_c0_g1_i1_1	PF13419.5	HAD_2	MER0201475	cytosolic epoxide hydrolase		S33.973	S33
ARHOMBI_DN3967_c0_g1_i1_1	PF13419.5	HAD_2	MER0230625	family S33 unassigned peptidases	Micromonospora sp. L5	S33.UPW	S33
ARUBRA_DN2934_c0_g2_i2_4	PF05670.12	DUF814	MER0599089	family S33 unassigned peptidases	Echinops telfairi	S33.UPW	S33

Supplementary Table S14: Peptidases exclusively identified in the water extracted Betula pollen

Protein IDs	Pfam accession	Pfam family name	Merops accession	Merops family	Merops peptidase ID	Merops subfamily
TRINITY_DN19058_c2_g1::TRINITY_DN19058_c2_g1_i7::g.111114::m.111114	PF14543.5	TAXi_N	MER0372282	CDR1 peptidase	A01.069	A01B
TRINITY_DN13851_c1_g2::TRINITY_DN13851_c1_g2_i2::g.29292::m.29292	PF00026.22	Asp	MER1131201	subfamily A1A unassigned peptidases	A01.UPA	A01A
TRINITY_DN19962_c5_g2::TRINITY_DN19962_c5_g2_i2::g.126940::m.126940	PF01095.18	Pectinesterase	MER0570148	family A2 unassigned peptidases	A02.UPW	A02X
TRINITY_DN15205_c1_g1::TRINITY_DN15205_c1_g1_i3::g.48499::m.48499	PF00112.22	Peptidase_C1	MER1160913	subfamily C1A unassigned peptidases	C01.UPA	C01A
TRINITY_DN18947_c6_g2::TRINITY_DN18947_c6_g2_i2::g.109306::m.109306	PF00112.22	Peptidase_C1	MER1161493	subfamily C1A unassigned peptidases	C01.UPA	C01A
TRINITY_DN31964_c0_g1::TRINITY_DN31964_c0_g1_i1::g.130316::m.130316	PF00112.22	Peptidase_C1	MER1161346	subfamily C1A unassigned peptidases	C01.UPA	C01A
TRINITY_DN13524_c0_g1::TRINITY_DN13524_c0_g1_i8::g.24870::m.24870	PF00917.25	MATH	MER0712608	family C19 unassigned peptidases	C19.UPW	C19
TRINITY_DN13734_c2_g1::TRINITY_DN13734_c2_g1_i1::g.27715::m.27715	PF12481.7	DUF3700	MER0571885	family C44 unassigned peptidases	C44.UPW	C44
TRINITY_DN11558_c0_g1::TRINITY_DN11558_c0_g1_i1::g.7858::m.7858	PF00197.17	Kunitz_legume	MER0453920	inhibitor MtTi2	I03.030	I03A
TRINITY_DN13585_c0_g1::TRINITY_DN13585_c0_g1_i3::g.25706::m.25706			MER0680968	subfamily I25A unassigned peptidase inhibitors	I25.UPA	I25A
TRINITY_DN11049_c0_g1::TRINITY_DN11049_c0_g1_i1::g.6211::m.6211	PF01161.19	PBP	MER0785675	family I51 unassigned peptidase inhibitors	I51.UPW	I51
TRINITY_DN17913_c4_g1::TRINITY_DN17913_c4_g1_i1::g.91856::m.91856	PF03009.16	GDPD	MER0604943	family I71 unassigned peptidase inhibitors	I71.UPW	I71
TRINITY_DN19263_c0_g1::TRINITY_DN19263_c0_g1_i6::g.114813::m.114813	PF01432.19	Peptidase_M3	MER0546417	oligopeptidase A	M03.004	M03A
TRINITY_DN18281_c0_g1::TRINITY_DN18281_c0_g1_i4::g.98025::m.98025	PF04563.14	RNA_pol_Rpb2_1	MER0195833	family N11 unassigned peptide lyases	N11.UPW	N11
TRINITY_DN16993_c0_g2::TRINITY_DN16993_c0_g2_i2::g.76741::m.76741	PF00082.21	Peptidase_S8	MER0621382	ARA12 peptidase	S08.112	S08A
TRINITY_DN13334_c3_g1::TRINITY_DN13334_c3_g1_i2::g.22908::m.22908	PF00082.21	Peptidase_S8	MER0039101	At1g32980	S08.A31	S08A
TRINITY_DN13205_c0_g1::TRINITY_DN13205_c0_g1_i3::g.21053::m.21053	PF07859.12	Abhydrolase_3	MER0588552	subfamily S9C unassigned peptidases	S09.UPC	S09C
TRINITY_DN17776_c0_g1::TRINITY_DN17776_c0_g1_i2::g.89550::m.89550	PF07859.12	Abhydrolase_3	MER0621913	subfamily S9C unassigned peptidases	S09.UPC	S09C
TRINITY_DN17928_c2_g1::TRINITY_DN17928_c2_g1_i2::g.92278::m.92278	PF02230.15	Abhydrolase_2	MER0588084	family S9 unassigned peptidases	S09.UPW	S09X

TRINITY_DN18181_c1_g1::TRINITY_DN18181_c1_g1_i3::g.96440::m.96440	PF12697.6	Abhydrolase_6	MER0639174	family S9 unassigned peptidases	S09.UPW	S09X
TRINITY_DN15931_c0_g1::TRINITY_DN15931_c0_g1_i5::g.59103::m.59103	PF00450.21	Peptidase_S10	MER0425718	serine carboxypeptidase D	S10.005	S10
TRINITY_DN12399_c0_g1::TRINITY_DN12399_c0_g1_i1::g.12011::m.12011	PF00450.21	Peptidase_S10	MER0637468	OsBISCPL1-type putative carboxypeptidase	S10.017	S10
TRINITY_DN19791_c7_g4::TRINITY_DN19791_c7_g4_i2::g.123739::m.123739	PF00450.21	Peptidase_S10	MER0660317	At3g63470	S10.A41	S10
TRINITY_DN16195_c0_g1::TRINITY_DN16195_c0_g1_i3::g.63589::m.63589	PF03080.14	Neprosin	MER0973935	family U74 unassigned peptidases	U74.UPW	U74
TRINITY_DN16782_c2_g1::TRINITY_DN16782_c2_g1_i3::g.73171::m.73171	PF03080.14	Neprosin	MER1001725	family U74 unassigned peptidases	U74.UPW	U74
TRINITY_DN16782_c2_g2::TRINITY_DN16782_c2_g2_i4::g.73167::m.73167	PF03080.14	Neprosin	MER0973935	family U74 unassigned peptidases	U74.UPW	U74
TRINITY_DN19409_c5_g5::TRINITY_DN19409_c5_g5_i2::g.117475::m.117475	PF03080.14	Neprosin	MER1001725	family U74 unassigned peptidases	U74.UPW	U74

Supplementary Table S18: Peptidases exclusively identified in water extracted Corylus pollen

Protein IDs	Pfam accession	Pfam family name	Merops accession	Merops family	source organism	Merops peptidase ID	Merops subfamily
TRINITY_DN1283_c0_g1_i1_3	PF00188.25	CAP	MER0228949	subfamily A1A unassigned peptidases	Debaryomyces hansenii	A01.UPA	A01A
TRINITY_DN10919_c0_g1_i5_1	PF00112.22	Peptidase_C1	MER1161891	subfamily C1A unassigned peptidases	Cynara cardunculus	C01.UPA	C01A
TRINITY_DN8308_c0_g2_i1_2	PF00112.22	Peptidase_C1	MER1161707	subfamily C1A unassigned peptidases	Quercus suber	C01.UPA	C01A
TRINITY_DN9489_c0_g2_i1_2	PF00112.22	Peptidase_C1	MER1160989	subfamily C1A unassigned peptidases	Juglans regia	C01.UPA	C01A
TRINITY_DN12921_c0_g1_i1_3			MER1170789	family C12 unassigned peptidases	Juglans regia	C12.UPW	C12
TRINITY_DN6323_c0_g1_i1_4	PF01650.17	Peptidase_C13	MER0691713	family C13 unassigned peptidases	Morus notabilis	C13.UPW	C13
TRINITY_DN9010_c0_g1_i2_3	PF01470.16	Peptidase_C15	MER0584791	At1g56700		C15.A02	C15
TRINITY_DN4761_c0_g1_i1_3	PF05903.13	Peptidase_C97	MER0660526	family C97 unassigned peptidases	Eucalyptus grandis	C97.UPW	C97
TRINITY_DN6915_c0_g2_i2_2	PF02704.13	GASA	MER0526833	family I8 unassigned peptidase inhibitors	Oryza brachyantha	I08.UPW	I08
TRINITY_DN9357_c0_g1_i1_4			MER0609806	family I8 unassigned peptidase inhibitors	Xenopus tropicalis	I08.UPW	I08
TRINITY_DN6677_c0_g2_i1_6	PF00280.17	potato_inhibit	MER0511491	family I13 unassigned peptidase inhibitors	Prunus mume	I13.UPW	I13
TRINITY_DN2292_c0_g3_i1_5	PF00428.18	Ribosomal_60s	MER0890057	family M18 unassigned peptidases	Lachancea quebecensis	M18.UPW	M18
TRINITY_DN4354_c0_g1_i1_4	PF15801.4	zf-C6H2	MER0161105	methionyl aminopeptidase 1	Drosophila simulans	M24.017	M24A
TRINITY_DN3347_c0_g1_i1_2	PF00082.21	Peptidase_S8	MER0570101	ARA12 peptidase	Citrus sinensis	S08.112	S08A
TRINITY_DN53_c0_g1_i1_5	PF00082.21	Peptidase_S8	MER0551416	AIR3 peptidase	Malus domestica	S08.119	S08A
TRINITY_DN10903_c0_g1_i6_2	PF00082.21	Peptidase_S8	MER0039101	At1g32980	Arachis hypogaea	S08.A31	S08A
TRINITY_DN18123_c0_g2_i1_2			MER0535213	subfamily S8A unassigned peptidases	Sesamum indicum	S08.UPA	S08A
TRINITY_DN8778_c0_g1_i2_2	PF12146.7	Hydrolase_4	MER0499110	At3g47560	Prunus mume	S09.A31	S09X
TRINITY_DN11503_c0_g1_i5_1	PF07859.12	Abhydrolase_3	MER0588552	subfamily S9C unassigned peptidases	Citrus sinensis	S09.UPC	S09C
TRINITY_DN8280_c0_g2_i1_2	PF02230.15	Abhydrolase_2	MER0588084	family S9 unassigned peptidases	Citrus sinensis	S09.UPW	S09X
TRINITY_DN128_c0_g1_i1_1	PF00240.22	ubiquitin	MER0053503	family S16 unassigned peptidases	Pan troglodytes	S16.UPW	S16

TRINITY_DN20857_c0_g1_i1_2	PF13419.5	HAD_2	MER0230625	family S33 unassigned peptidases	Micromonospora sp. L5	S33.UPW	S33
TRINITY_DN2750_c0_g2_i1_2	PF13419.5	HAD_2	MER0230625	family S33 unassigned peptidases	Micromonospora sp. L5	S33.UPW	S33
TRINITY_DN2392_c0_g1_i1_2			MER0901042	family U74 unassigned peptidases	Gossypium arboreum	U74.UPW	U74