

RESEARCH ARTICLE

Difference in the Breast Milk Proteome between Allergic and Non-Allergic Mothers

Kasper A. Hettinga^{1*}, Fabiola M. Reina¹, Sjeff Boeren², Lina Zhang¹, Gerard H. Koppelman³, Dirkje S. Postma⁴, Jacques J. M. Vervoort², Alet H. Wijga⁵

1 Dairy Science and Technology, Food Quality and Design group, Wageningen University, Wageningen, The Netherlands, **2** Laboratory of Biochemistry, Wageningen University, Wageningen, The Netherlands, **3** University Medical Center Groningen, Department of Pediatric Pulmonology and Pediatric Allergology, Beatrix Children's Hospital, GRIAC Research Institute, University of Groningen, Groningen, the Netherlands, **4** University Medical Center Groningen, Department of Pulmonology, GRIAC research institute, University of Groningen, Groningen, The Netherlands, **5** Center for Nutrition, Prevention and Health Services, National Institute of Public Health and the Environment, Bilthoven, The Netherlands

* kasper.hettinga@wur.nl



OPEN ACCESS

Citation: Hettinga KA, Reina FM, Boeren S, Zhang L, Koppelman GH, Postma DS, et al. (2015) Difference in the Breast Milk Proteome between Allergic and Non-Allergic Mothers. PLoS ONE 10(3): e0122234. doi:10.1371/journal.pone.0122234

Academic Editor: Andrea S. Wiley, Indiana University, UNITED STATES

Received: September 9, 2014

Accepted: February 10, 2015

Published: March 23, 2015

Copyright: © 2015 Hettinga et al. This is an open access article distributed under the terms of the [Creative Commons Attribution License](https://creativecommons.org/licenses/by/4.0/), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

Data Availability Statement: All relevant data are within the paper and the full dataset is available as supplementary table ([S2 Table](#)).

Funding: The PIAMA study is supported by The Netherlands Organization for Health Research and Development, The Netherlands Organization for Scientific Research, The Netherlands Lung Fund, The Netherlands Ministry of Spatial Planning, Housing, and the Environment, and The Netherlands Ministry of Health, Welfare, and Sport. No additional funding was received for the proteomics study described in this paper. The funders of the PIAMA study had no role in study design, data collection and

Abstract

Background

Breastfeeding has been linked to a reduction in the prevalence of allergy and asthma. However, studies on this relationship vary in outcome, which may partly be related to differences in breast milk composition. In particular breast milk composition may differ between allergic and non-allergic mothers. Important components that may be involved are breast milk proteins, as these are known to regulate immune development in the newborn. The objective of this study was therefore to explore differences in the proteins of breast milk from 20 allergic and non-allergic mothers. The results from this comparison may then be used to generate hypotheses on proteins associated with allergy in their offspring.

Methods

Milk samples from allergic and non-allergic mothers were obtained from the PIAMA project, a prospective birth cohort study on incidence, risk factors, and prevention of asthma and inhalant allergy. Non-targeted proteomics technology, based on liquid chromatography and mass spectrometry, was used to compare breast milk from allergic and non-allergic mothers.

Results

Nineteen proteins, out of a total of 364 proteins identified in both groups, differed significantly in concentration between the breast milk of allergic and non-allergic mothers. Protease inhibitors and apolipoproteins were present in much higher concentrations in breast milk of allergic than non-allergic mothers. These proteins have been suggested to be linked to allergy and asthma.

analysis, decision to publish, or preparation of the manuscript.

Competing Interests: The authors have declared that no competing interests exist.

Conclusions

The non-targeted milk proteomic analysis employed has provided new targets for future studies on the relation between breast milk composition and allergy.

Introduction

Because of a range of health benefits, the WHO recommends to breastfeed babies exclusively for the first 6 months of life [1]. In addition to nutritional benefits, it is important for gut maturation and modulation of inflammatory response [2–4]. Furthermore, breast milk may directly modulate the newborn's immune system, amongst others by delivering antibodies specific for microbes and other antigens present in the mother's indoor and outdoor environment [2, 4, 5].

Breastfeeding has been linked to a decrease [3, 5] as well as increase [6] in the occurrence of allergy and asthma. A recent review on the relation between breastfeeding and allergy concluded that there are shortcomings in the current evidence for a clear relationship, as studies showed a wide variety in results [7]. One of the hypotheses put forward in this review is that the variation in composition of breast milk may be related to the lack of a clear relationship between breastfeeding and allergy. The same uncertainty can be seen when the allergy status of the mother is taken into account. Some studies showed a more pronounced protection with a positive family history of asthma or atopy [8, 9]. On the other hand, it has been reported that breast-fed children had higher immunoglobulin E (IgE) levels compared with never breast-fed children, if their mothers had high IgE levels [10]. This controversy may in part be due to individual variations in the levels of immunological components in breast milk of allergic and of non-allergic mothers. Different components, including leukocytes, cytokines, immunoglobulins and fatty acids, have all been suggested as potential candidates for this effect [11]. For example, IgG-antigen immune complexes have been linked to allergy and asthma prevention [4], although other milk proteins, including α -lactalbumin and β -lactoglobulin, have also previously been linked to a reduction in prevalence of allergy and asthma [12]. In addition, cytokines in milk, including transforming growth factor- β (TGF- β) and interleukin-10 (IL-10), have previously been linked to tolerance induction [4].

Previous research aiming to find components in breast milk of allergic mothers that could explain the reduction in allergy in their offspring has focused on specific compounds thought to affect allergy or tolerance induction. To study these components, targeted techniques have been used. With recent developments in the field of non-targeted proteomics, it has become possible to screen many hundreds of proteins simultaneously instead of having to target specific preselected proteins.

In this paper, we report the use of non-targeted proteomics to study differences in the proteome of breast milk from allergic and non-allergic mothers.

Methods

The procedure followed during the experimental phase is detailed below. A general flow diagram of the process is shown in Fig. 1.

Milk samples

Samples analysed were obtained from the PIAMA project, which is a prospective birth cohort study on incidence, risk factors, and prevention of asthma and inhalant allergy [13].

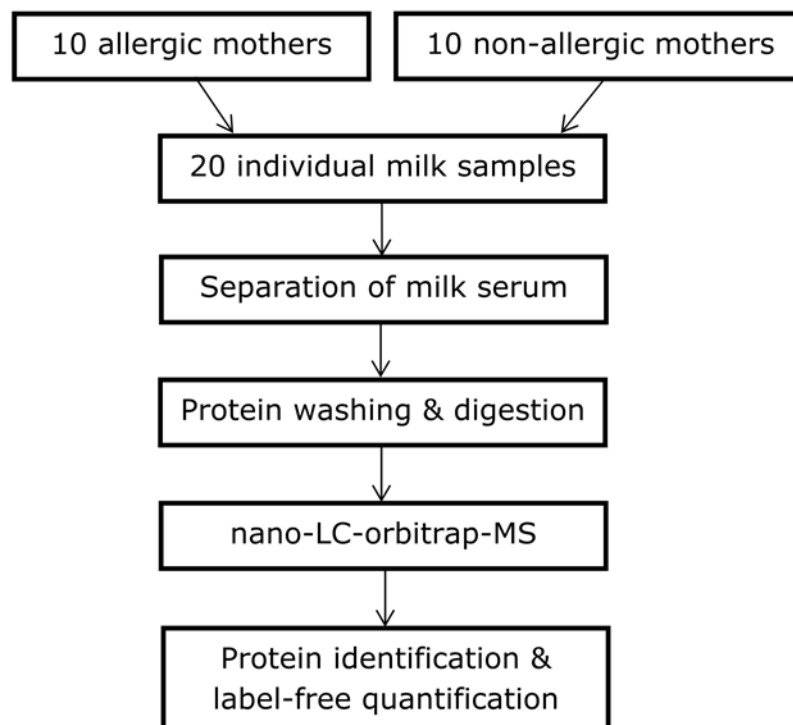


Fig 1. Overview of experimental procedure.

doi:10.1371/journal.pone.0122234.g001

At the time of recruitment, the pregnant mothers filled in a validated screening questionnaire on allergy [14]. Mothers reporting at least one of the following: (a history of) asthma, current hay fever, current allergy for pets, or current allergy for house dust or house dust mite were defined as 'allergic' and mothers reporting that they had none of these complaints were defined as 'non-allergic'. Blood samples were obtained from a sub-group of the mothers with self-reported asthma or allergies and their allergic status was confirmed by tests for specific IgE against house dust mite. Only mothers with confirmed house dust mite (HDM) allergy were selected in the allergic group. HDM allergy was chosen, given that HDM is one of the most common allergens [8] and exposure to this allergen cannot be prevented.

Breast milk samples were taken when the infants were 2 to 4 months old. For this study, 20 samples were analysed, 10 samples from mothers with confirmed HDM allergy with high HDM allergen exposure, and 10 from mothers who reported no asthma or allergies, with a similar HDM allergen exposure. This number is based on a power calculation, aiming at picking up a 5-fold difference, a standard deviation of the same size, an alpha of 0.05, and beta of 0.20. The milk samples were collected in small plastic cups, either by manual pressure or by using a breast pump. The samples were stored at -80°C. Details on sample collection (time and mode of collection) can be found in [S1 Table](#).

Ethics Statement

This research was performed in accordance with the ethical principles for medical research involving human subjects outlined in the Declaration of Helsinki. The study protocol was approved by the Medical Ethics Committees of the participating institutes (Rotterdam MEC

132.636/1994/39 and 137.326/1994/130; Groningen MEC 94/08/92; Utrecht, MEC-TNO oordeel 95/50). All parents gave written informed consent.

Removal of fat and casein

As the presence of fat and casein disturbs the proteomics analysis, these components were removed from milk, to obtain a transparent liquid called milk serum. Samples were first thawed at room temperature and then approx. 3mL of each was ultracentrifuged for 90min at 100,000g and 30°C, in a Beckman L-60 ultracentrifuge to separate milk serum.

Protein quantification

Prior to preparing the samples for analysis, their protein content was measured using a BCA Protein Assay kit (Thermo, San Jose, CA, USA), to ensure that the same amount of protein (10 µg) was loaded onto each filter.

Sample preparation for proteome analysis

The milk serum samples were prepared for LC/MSMS analysis according to the procedure described by Lu et al. [15].

First, 20µL of serum was diluted with 180µL of a solution of 100mM Tris/HCl (pH 8) containing 4% SDS and 0.1M DTT and then heated for 10min at 95°C. Afterwards, 10µL of each sample was loaded onto a Pall 3K omega filter and centrifuged at 20,000g for 1 min. Then, 100µL of a solution of 8M urea in 100mM Tris/HCl (solution A) was added and the device was centrifuged for 30 min. Next, 100µL of 0.05M iodoacetamide in solution A was added, followed by centrifugation for 1 min and incubation at room temperature for 30 min, and then another 30min of centrifugation. After that, each filter was washed with 110, 120 and 130µL respectively of solution A, and centrifuged for 30 min after each washing step. Finally, 140µL of 0.05M NH_4HCO_3 (solution B) was added, followed by centrifugation for 30min. The filter was then transferred to a clean low-binding microcentrifuge tube, and 1µL sequencing-grade trypsin (Roche, Germany) in 100µL solution B was added to each sample. The filters were incubated overnight at room temperature and then centrifuged for 30 min. Finally, 3.5µL of 10% TFA in water was added to each tube to reach a pH of 2–4.

LC-MS/MS

Samples were analysed with LC-MS/MS by the department of Biochemistry at Wageningen University. Samples were analysed by injecting 18µL of sample over a 0.10*32mm Prontosil 300-3-C18H (Bischoff, Germany) pre-concentration column (prepared in house), at a maximum pressure of 270bar. Peptides were eluted from the pre-concentration column onto a 0.10*200mm Prontosil 300-3-C18H analytical column, with an acetonitrile gradient at a flow of 0.5µL/min. The gradient consisted of an increase from 9% to 21% acetonitrile in water with 1mL/L formic acid in 100min, followed by an increase in the percentage acetonitrile to 34% (with 68% water and 1mL/L formic acid) in 26 min, which was increased further to 50% acetonitrile in 3 min. Between the pre-concentration and analytical column, an electrospray potential of 3.5kV was applied directly to the eluent via a solid 0.5mm platina electrode fitted into a P777 Upchurch microcross. Full scan positive mode FTMS spectra were measured between m/z 380 and 1400 on a LTQ-Orbitrap (Thermo electron, San Jose, CA, USA). MSMS scans of the four most abundant multiply-charged peaks in the FTMS scan were recorded in data-dependent mode in the linear trap (MSMS threshold = 5,000).

Peptide and protein identification

Each run with all MSMS spectra obtained was analysed with MaxQuant v.1.2.2.5 as described before [16]. Methionine oxidations, acetylation of protein N termini, and de-amidation of N and Q were specified as variable modifications. Carboxamidomethylation of cysteines was set as a fixed modification (enzyme trypsin, 2 missed cleavages, peptide tolerance 6 ppm, fragment ions tolerance 0.5 Da). The human Uniprot database (downloaded March 2012), as well as a set of protein sequences of common contaminants, was used. In addition, MaxQuant created a decoy database consisting of reversed sequences to calculate the false discovery rate (FDR). The maximum FDR was set to 0.01 on peptide and protein level. Minimum required peptide length was six amino acids. Finally, proteins were identified based on minimally 2 distinct peptides of which at least one should be unique and one should be unmodified. All known contaminants (i.e. keratins, trypsin), and proteins detected in less than half of the samples, were removed from the set of proteins identified. The GO-annotation of these proteins was determined using DAVID GO [17].

Full proteome quantification

The quantification of the full proteome is based on the extracted ion current and is taking the whole three-dimensional isotope pattern into account, using peak intensities of all measured isotopes [18]. At least two quantitation events were required for a quantifiable protein. If a protein was not detected in a specific sample, the value was set to 10^3 (minimum detection level). MaxQuant was used with two different algorithms for quantification, IBAQ and LFQ [19]. Intensity based absolute quantification (IBAQ) estimates the absolute amount of a protein as the sum of the intensities of all peptides, divided by the number of tryptic peptides that can theoretically be generated. Label-free quantification (LFQ) is an algorithm that calculates relative protein amounts, by using several layers of normalization. These normalization steps make LFQ better than IBAQ for comparison between samples, whereas IBAQ is more suitable as an indicator for absolute concentration. Proteins had to have at least three valid LFQ intensities in either the allergic or non-allergic group in the final results.

Statistical analysis

Perseus software v.1.2.0.16 was used to test for significant differences between groups. The ratio between the concentration found in allergic mothers and non-allergic mothers was calculated as the difference (on $^{10}\log$ scale) of LFQ intensities. Differences between groups were then statistically tested using two-tailed t-test, correcting for multiple testing using permutation-based FDR [20].

Results

[Table 1](#) shows that the demographic characteristics of the allergic and non-allergic mothers were very similar. Also parameters for dietary intake did not differ significantly between the mothers (data not shown).

A total of 364 proteins were identified and quantified in all human milk samples together. Of these proteins, 357 were found in the the milk of allergic mothers, and 355 in the milk of non-allergic mothers, with an overlap of 348 proteins. Only 9 proteins were uniquely found in the milk of allergic mothers and 7 proteins were uniquely found in the milk of non-allergic mothers (for details, see [S2 Table](#)). Below, the qualitative and quantitative differences in the proteome are presented.

Table 1. Overview of the main characteristics of the allergic and non-allergic mothers (either mean $\pm$ standard deviation or fraction).

	Allergic mothers (n = 10)	Non-allergic mothers (n = 10)
Age mother (years)	30.3 $\pm$ 2.9	31.4 $\pm$ 3.8
Age baby at breast milk sampling (days)	101 $\pm$ 17	101 $\pm$ 16
Gestational age (weeks)	40.2 $\pm$ 1.1	40.6 $\pm$ 0.8
Gestational or non-gestational maternal diabetes (yes/ no/data not available)	0/5/5	0/7/3
Education level mother (low/medium/high)	3/4/3	3/3/3
Male babies	7	7
Atopic father	3	4
Smoking during pregnancy	1	0
Multiparity	5	7
Pets during pregnancy	4	4

doi:10.1371/journal.pone.0122234.t001

Qualitative differences in the proteome

In order to examine the function of the proteins, annotation according to gene ontology (GO) was performed using the online tool DAVID [17], as shown in Table 2. About one-third of all proteins have a GO annotation that is related to the immune system (including response to wounding, inflammatory response, and apoptosis).

Quantitative differences in the proteome

First, we compared the differences in the proteome between allergic and non-allergic mothers. Fig. 2 shows the geometric mean $^{10}\log$ -ratio of the protein LFQ values of the milk of allergic mothers over that of non-allergic mothers. This figure shows the over-expressed proteins in allergic mothers on the right, and those under-expressed on the left. A total of 19 proteins were significantly different between allergic and non-allergic mothers (for details, see S2 Table). None of the proteins that were uniquely found in the allergic or non-allergic mothers were among the significantly different proteins. This is due to the fact that all proteins uniquely

Table 2. Overview of the most abundant GO annotation cluster (biological process) of the proteome of milk samples from allergic and non-allergic mothers.

GO annotation cluster	Protein count	
	Non-allergic	Allergic
Response to wounding	53	52
Carbohydrate catabolic process	29	28
Homeostasis	20	20
Coenzyme metabolic process	21	20
Cellular carbohydrate biosynthetic process	14	13
Regulation of apoptosis	45	44
Response to extracellular stimulus (nutrients)	17	15
Inflammatory response	35	36
Hydrogen peroxide metabolic process	16	15
Response to organic substance	44	42

doi:10.1371/journal.pone.0122234.t002

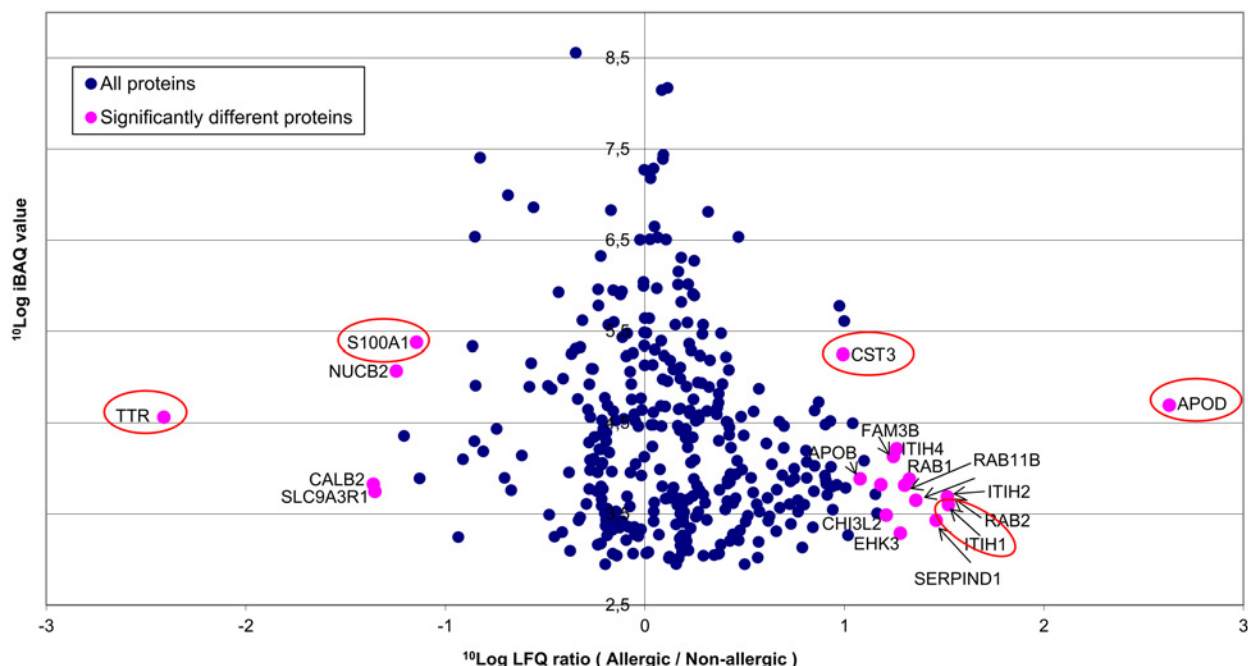


Fig 2. Overview of the differences in the proteome of milk from allergic and non-allergic mothers. Pink dots mark proteins that show significantly different concentrations between allergic and non-allergic mothers while proteins marked with blue dots were not statistically different. Abbreviations are gene codes: TTR: Transthyretin; S100A1: S100 calcium-binding protein A1; NUCB2: Nucleobindin-2; CALB2: Calretinin; SLC9A3R1: Sodium-hydrogen exchanger regulatory factor 1; CST3: Cystatin-3; APOB: Apolipoprotein B; APOD: Apolipoprotein D; FAM3B: Pancreatic-derived factor; ITIH1: Inter alpha-trypsin inhibitor, heavy chain 1; ITIH2: Inter alpha-trypsin inhibitor, heavy chain 2; ITIH4: Inter alpha-trypsin inhibitor, heavy chain 4; RAB1: Ras-related protein Rab-1A; RAB11B: Ras-related protein Rab-11B; RAB2: Ras-related protein Rab-2; RAB11B: Ras-related protein Rab-11B; SERPIND1: Heparin cofactor 2; EHK3: Ephrin type-A receptor 7 CHI3L2: Chitinase-3-like protein 2; Red encircled proteins are shown in more detail in Fig. 3.

doi:10.1371/journal.pone.0122234.g002

found in either group were very close to the detection limit, and that missing values were imputed with the detection limit for the statistical analysis.

We visualized whether these significant differences in protein intensity between the two groups of mothers were due to a few outliers or consistent differences between the groups, by plotting the data of individual mothers for five proteins. The five proteins were chosen to have relatively abundant proteins, representing two interesting biological functions (protease inhibitors and transport proteins), with large differences between the two groups. Additionally, we present two proteins that have higher and lower concentrations in allergic mothers compared to non-allergic mothers. Fig. 3 shows that for these five proteins, statistical differences were due to systematic differences between groups and not due to outliers.

Discussion

Overview of the breast milk proteome

Our proteomic study in breast milk of allergic and non-allergic lactating mothers shows that their proteomes are almost the same. This is in line with our observation that the proportion of proteins involved in the same biological processes is similar for the milk samples of allergic and non-allergic mothers (Table 2). In the statistical comparison, none of the 16 proteins that was uniquely identified in one of the groups of mothers was found to differ significantly. This can be explained by the fact that the concentrations of these proteins in the group in which the protein was present were often low and close to the detection limit, and missing values were imputed with the detection limit to enable statistical comparison. Of interest, the quantitative

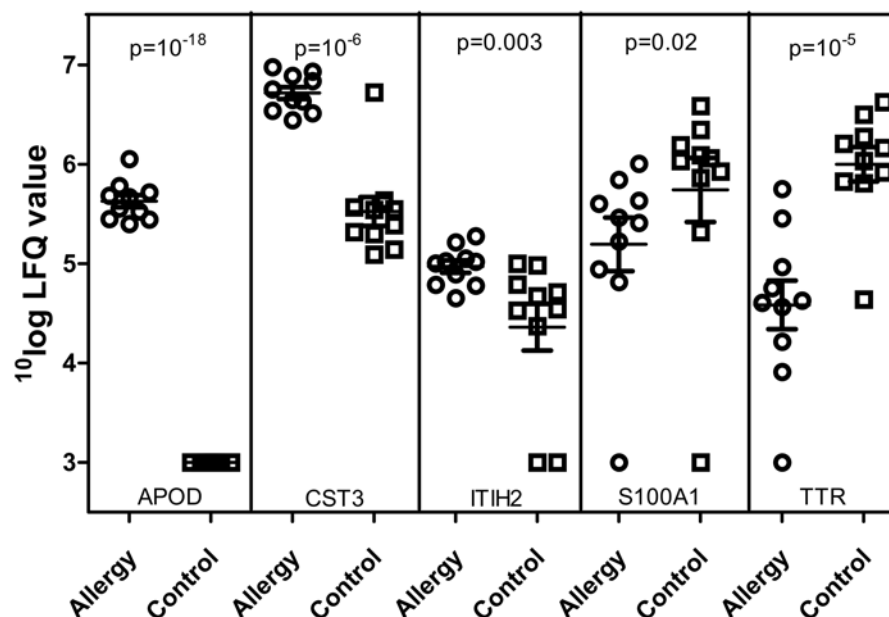


Fig 3. $10\log$ label-free quantification (LFQ) values for five proteins in individual samples from allergic and non-allergic (control) mothers. Proteins shown are APOD: Apolipoprotein D; CST3: Cystatin-C; ITIH2: Inter-alpha-trypsin inhibitor heavy chain H2; S100A1: S100 calcium-binding protein A1; TTR: Transthyretin. p-values are FDR-corrected p-values for t-test by Perseus.

doi:10.1371/journal.pone.0122234.g003

analysis of the proteome showed that the concentrations of several proteins were significantly different between the breastmilk of allergic and non-allergic mothers (Fig 3). These results thus indicate that the difference between breast milk from allergic and non-allergic mothers lies mainly in the concentration of the proteins and not their absence or presence.

Differences in the milk proteome between allergic and non-allergic mothers

Fig 3, presenting data on individual mothers of five proteins, shows that there is considerable variation between individual mothers. We speculate that this large variation in milk proteome between individual mothers may be related to the large variation of results in studies on the relation between breastfeeding and asthma/allergy, as previously hypothesized by Matheson et al. [7]. Some cytokines previously related to tolerance induction (e.g. TGF- β and IL-10) were not found with our proteomics approach. This is to be expected given the very low concentration of these components.

The extent of the variation in the five proteins shown in Fig 3 was similar to that seen for the other proteins within the entire proteome (see S2 Table for intensity and standard deviations of all proteins). However, for the above five proteins, the difference between mothers within one group is smaller than the difference between allergic and non-allergic mothers. For example, LFQ values for cystatin-C (a protease inhibitor) are consistently higher in allergic mothers than in non-allergic mothers. Based on these data of individual mothers, we conclude that the significant differences between groups are based on systematic differences between these groups, and not due to single outlying data points.

When looking more closely at the biological function of the 19 proteins that are significantly different between the two groups of mothers, one group of proteins is substantially different,

i.e. the protease inhibitors. Cystatin C, several inter-alpha-trypsin inhibitors, and serine-protease inhibitors (SERPINS) are all present in higher concentrations in breast milk of allergic mothers. This seems remarkable, knowing that the major HDM allergen, Der p 1, is itself a protease and this proteolytic activity has been linked to the mechanisms of the allergic response [4]. Der p 1 is also known to degrade antiprotease-based lung defences such as mucosal α 1-antitrypsin, which protects the respiratory mucosa against serine proteases [21]. In addition, it was previously shown that serine proteases and SERPINS are involved in the maintenance of the epithelial barrier of the skin and airways, and that an imbalance of protease-protease inhibitors allows easier penetration of allergens [22, 23]. For example, reduced cystatin secretion, a protease inhibitor we also detected in breast milk, by epithelial cells has been linked to easier penetration of Der p 1 through the epidermal barrier [24]. Because this proteolytic activity is considered relevant to the pathogenesis of asthma and allergy, protease inhibitors are being investigated as potential therapeutics for these diseases [23]. Protease inhibitors have previously been detected in stool of breastfed infants, indicating that these proteins are not fully digested, and may thus be active in the gastrointestinal tract [25]. In addition to a direct effect, protease inhibitors may also function through protection of other immune proteins against digestion [26, 27]. In summary, our results, combined with data from the literature indicate that protease inhibitors naturally present in breast milk may be an interesting group of proteins for further research and study of their potential beneficial effect. A useful next step would for example be to determine the concentration of protease inhibitors in a larger number of mothers in which the allergy status of their offspring is known. Unfortunately this was not possible in our study. However, this would allow assessing whether protease inhibitors in breast milk are associated with a reduction in the development of asthma and/or allergy in the offspring.

Next to the protease inhibitors, other milk proteins were found to be differentially expressed between allergic and non-allergic mothers. For example, apolipoproteins were found to be over-expressed in the milk of allergic mothers. Like protease inhibitors, apolipoproteins have been previously linked to asthma and atopy in children [28]; and more recently, their mimetic peptides have emerged as a potential new treatment for asthma [29]. Furthermore, our study provides also novel proteins that are different between allergic and non-allergic mothers, like transthyretin, which is carrier for the thyroid hormone thyroxine, and is also involved in retinol transport. The function of this protein, and other proteins that differed between allergic and non-allergic mothers, in relation to allergy or breast milk is unknown.

In conclusion, using non-targeted proteomics we identified 19 proteins that significantly differ between breast milk of allergic and non-allergic mothers. Protease inhibitors were the largest group of proteins that were upregulated in the milk of allergic mothers. If these results can be confirmed in future studies, this would show that unbiased milk proteomics analysis can provide new targets for studies on the relation between allergy and breast milk composition.

Supporting Information

S1 Table. Time and mode of breast milk collection.

(XLSX)

S2 Table. Overview of all identified protein, including signal intensities ($^{10}\log$ LFQ values, $^{10}\log$ IBAQ values), including averages and standard deviation. Proteins present in only allergic or non-allergic mothers, and proteins that differ significantly between groups are indicated by an X in the respective three columns.

(XLSX)

Acknowledgments

We would like to thank Professor Rob Aalberse for critically reviewing the manuscript.

Author Contributions

Conceived and designed the experiments: KAH FMR AHW. Performed the experiments: KAH FMR SB. Analyzed the data: KAH FMR LZ GHK DSP JJMV AHW. Wrote the paper: KAH FMR SB LZ GHK DSP JJMV AHW.

References

1. Walker A. Breast milk as the gold standard for protective nutrients. *J Pediatr* 2010; 156: S3–7. doi: [10.1016/j.jpeds.2009.11.021](https://doi.org/10.1016/j.jpeds.2009.11.021) PMID: [20105662](https://pubmed.ncbi.nlm.nih.gov/20105662/)
2. German B, Dillard C, Ward R. Bioactive components in milk. *Current opinion in clinical nutrition and metabolic care* 2002; 5: 653–58. PMID: [12394640](https://pubmed.ncbi.nlm.nih.gov/12394640/)
3. Newburg DS, Walker WA. Protection of the neonate by the innate immune system of developing gut and of human milk. *Pediatr Res* 2007; 61: 2–8. PMID: [17211132](https://pubmed.ncbi.nlm.nih.gov/17211132/)
4. Verhasselt V. Oral tolerance in neonates: from basics to potential prevention of allergic disease. *Mucosal Immunol* 2010; 3: 326–33. doi: [10.1038/mi.2010.25](https://doi.org/10.1038/mi.2010.25) PMID: [20485330](https://pubmed.ncbi.nlm.nih.gov/20485330/)
5. Belderbos ME, Houben ML, van Bleek GM, Schuijff L, van Uden NO, Bloemen-Carlier EM, et al. Breast-feeding modulates neonatal innate immune responses: a prospective birth cohort study. *Pediatr Allergy Immunol* 2012; 23: 65–74. doi: [10.1111/j.1399-3038.2011.01230.x](https://doi.org/10.1111/j.1399-3038.2011.01230.x) PMID: [22103307](https://pubmed.ncbi.nlm.nih.gov/22103307/)
6. Oberle D, Von Kries R, Von Mutius E. Asthma and breast feeding. *Thorax* 2001; 56: 896. PMID: [11699502](https://pubmed.ncbi.nlm.nih.gov/11699502/)
7. Matheson MC, Allen KJ, Tang MLK. Understanding the evidence for and against the role of breastfeeding in allergy prevention. *Clin Exp Allergy* 2012; 42: 827–51. doi: [10.1111/j.1365-2222.2011.03925.x](https://doi.org/10.1111/j.1365-2222.2011.03925.x) PMID: [22276526](https://pubmed.ncbi.nlm.nih.gov/22276526/)
8. van Odijk J, Kull I, Borres MP, Brandtzaeg P, Edberg U, Hanson LA, et al. Breastfeeding and allergic disease: a multidisciplinary review of the literature (1966–2001) on the mode of early feeding in infancy and its impact on later atopic manifestations. *Allergy* 2003; 58: 833–43. PMID: [12911410](https://pubmed.ncbi.nlm.nih.gov/12911410/)
9. Bjorksten B, Ait-Khaled N, Innes Asher M, Clayton TO, Robertson C. Global analysis of breast feeding and risk of symptoms of asthma, rhinoconjunctivitis and eczema in 6–7 year old children: ISAAC Phase Three. *Allergol Immunopathol (Madr)* 2011; 39: 318–25. doi: [10.1016/j.aller.2011.02.005](https://doi.org/10.1016/j.aller.2011.02.005) PMID: [21802826](https://pubmed.ncbi.nlm.nih.gov/21802826/)
10. Wright AL, Sherrill D, Holberg CJ, Halonen M, Martinez FD. Breast-feeding, maternal IgE, and total serum IgE in childhood. *J Allergy Clin Immunol* 1999; 104: 589–94. PMID: [10482832](https://pubmed.ncbi.nlm.nih.gov/10482832/)
11. Jarvinen KM, Suomalainen H. Development of cow's milk allergy in breast-fed infants. *Clin Exp Allergy* 2001; 31: 978–87. PMID: [11467987](https://pubmed.ncbi.nlm.nih.gov/11467987/)
12. Loss G, Apprich S, Waser M, Kneifel W, Genuneit J, Buchele G, et al. The protective effect of farm milk consumption on childhood asthma and atopy: the GABRIELA study. *J Allergy Clin Immunol* 2011; 128: 766–73.e4. doi: [10.1016/j.jaci.2011.07.048](https://doi.org/10.1016/j.jaci.2011.07.048) PMID: [21875744](https://pubmed.ncbi.nlm.nih.gov/21875744/)
13. Wijga AH, Kerkhof M, Gehring U, de Jongste JC, Postma DS, Aalberse RC, et al. Cohort profile: The Prevention and Incidence of Asthma and Mite Allergy (PIAMA) birth cohort. *Int J Epidemiol* 2013; 11: 11.
14. Wijga AH, van Houwelingen AC, Kerkhof M, Tabak C, de Jongste JC, Gerritsen J, et al. Breast milk fatty acids and allergic disease in preschool children: the Prevention and Incidence of Asthma and Mite Allergy birth cohort study. *J Allergy Clin Immunol* 2006; 117: 440–7. PMID: [16461146](https://pubmed.ncbi.nlm.nih.gov/16461146/)
15. Lu J, Boeren S, de Vries SC, van Valenberg HJ, Vervoort J, Hettinga K. Filter-aided sample preparation with dimethyl labeling to identify and quantify milk fat globule membrane proteins. *J Proteomics* 2011; 75: 34–43. doi: [10.1016/j.jprot.2011.07.031](https://doi.org/10.1016/j.jprot.2011.07.031) PMID: [21907314](https://pubmed.ncbi.nlm.nih.gov/21907314/)
16. Hubner NC, Bird AW, Cox J, Splettstoesser B, Bandilla P, Poser I, et al. Quantitative proteomics combined with BAC TransgeneOmics reveals in vivo protein interactions. *J Cell Biol* 2010; 189: 739–54. doi: [10.1083/jcb.200911091](https://doi.org/10.1083/jcb.200911091) PMID: [20479470](https://pubmed.ncbi.nlm.nih.gov/20479470/)
17. Huang da W, Sherman BT, Lempicki RA. Systematic and integrative analysis of large gene lists using DAVID bioinformatics resources. *Nat Protoc* 2009; 4: 44–57. doi: [10.1038/nprot.2008.211](https://doi.org/10.1038/nprot.2008.211) PMID: [19131956](https://pubmed.ncbi.nlm.nih.gov/19131956/)

18. Cox J, Mann M. MaxQuant enables high peptide identification rates, individualized p.p.b.-range mass accuracies and proteome-wide protein quantification. *Nat Biotechnol* 2008; 26: 1367–72. doi: [10.1038/nbt.1511](https://doi.org/10.1038/nbt.1511) PMID: [19029910](https://pubmed.ncbi.nlm.nih.gov/19029910/)
19. Schwanhaussier B, Busse D, Li N, Dittmar G, Schuchhardt J, Wolf J, Chen W, et al. Global quantification of mammalian gene expression control. *Nature* 2011; 473: 337–42. doi: [10.1038/nature10098](https://doi.org/10.1038/nature10098) PMID: [21593866](https://pubmed.ncbi.nlm.nih.gov/21593866/)
20. Tusher VG, Tibshirani R, Chu G. Significance analysis of microarrays applied to the ionizing radiation response. *Proc Natl Acad Sci U S A* 2001; 98: 5116–21. PMID: [11309499](https://pubmed.ncbi.nlm.nih.gov/11309499/)
21. Jacquet A. The role of the house dust mite-induced innate immunity in development of allergic response. *Int Arch Allergy Immunol* 2011; 155: 95–105. doi: [10.1159/000320375](https://doi.org/10.1159/000320375) PMID: [21196753](https://pubmed.ncbi.nlm.nih.gov/21196753/)
22. Smith PK, Harper JL. Serine proteases, their inhibitors and allergy. *Allergy* 2006; 61: 1441–7. PMID: [17073875](https://pubmed.ncbi.nlm.nih.gov/17073875/)
23. Gregory LG, Lloyd CM. Orchestrating house dust mite-associated allergy in the lung. *Trends Immunol* 2011; 32: 402–11. doi: [10.1016/j.it.2011.06.006](https://doi.org/10.1016/j.it.2011.06.006) PMID: [21783420](https://pubmed.ncbi.nlm.nih.gov/21783420/)
24. Cork MJ, Danby SG, Vasilopoulos Y, Hadgraft J, Lane ME, Moustafa M, et al. Epidermal Barrier Dysfunction in Atopic Dermatitis. *Journal of Investigative Dermatology* 2009; 129: 1892–1908 doi: [10.1038/jid.2009.133](https://doi.org/10.1038/jid.2009.133) PMID: [19494826](https://pubmed.ncbi.nlm.nih.gov/19494826/)
25. Davidson LA, Lönnerdal B. Fecal alpha1-antitrypsin in breast fed infants is derived from human milk and is not indicative of enteric protein loss. *Acta Paediatr Scand* 1990; 79: 137–41. PMID: [2321474](https://pubmed.ncbi.nlm.nih.gov/2321474/)
26. Lönnerdal Bo. Nutritional and physiologic significance of human milk proteins. *Am J Clin Nutr* 2003; 77: 1537S–1543S PMID: [12812151](https://pubmed.ncbi.nlm.nih.gov/12812151/)
27. Zhang L, Boeren S, Hageman JA, van Hooijdonk T, Vervoort J, Hettinga K. Bovine Milk Proteome in The First 9 Days: Protein Interactions in Maturation of The Immune and Digestive System of The New-born. *PLoS ONE* 2015; 10: e0116710. doi: [10.1371/journal.pone.0116710](https://doi.org/10.1371/journal.pone.0116710) PMID: [25693162](https://pubmed.ncbi.nlm.nih.gov/25693162/)
28. Nagel G, Weiland SK, Rapp K, Link B, Zoellner I, Koenig W. Association of apolipoproteins with symptoms of asthma and atopy among schoolchildren. *Int Arch Allergy Immunol* 2009; 149: 259–66. doi: [10.1159/000199722](https://doi.org/10.1159/000199722) PMID: [19218819](https://pubmed.ncbi.nlm.nih.gov/19218819/)
29. Yao X, Remaley AT, Levine SJ. New kids on the block: the emerging role of apolipoproteins in the pathogenesis and treatment of asthma. *Chest* 2011; 140: 1048–54. doi: [10.1378/chest.11-0158](https://doi.org/10.1378/chest.11-0158) PMID: [21972383](https://pubmed.ncbi.nlm.nih.gov/21972383/)

readme.txt

S1_Table.xlsx

10.1371/journal.pone.0122234.s001

S2_Table.xlsx

<div><p>Proteins present in only allergic or non-allergic mothers, and proteins that differ significantly between groups are indicated by an X in the respective three columns.</p>

</div>

10.1371/journal.pone.0122234.s002

		Non-allergic	Allergic
Collection time	Morning (0-10h)	2	3
	Mid day (10-18h)	3	6
	Evening (18-0h)	3	0
	Unknown	2	1
Collection method	From bottle after using breast pump	1	1
	Direct from breast before feeding	0	1
	Direct from breast during feeding	3	4
	Direct from breast after feeding	1	3
	From breast that was not used for feeding	2	1
	Direct from breast at non-feeding time	3	0

Uniprot	Protein Names	Gene Names
P00709	Alpha-lactalbumin;Lac	LALBA;LYZL7
P02768-1;P02768;A8K9P0;A6NBZ8;B2RBS	Serum albumin;cDNA	ALB;GIG20;GIG42;P
P02788;A8K494;A8K9U8;B2MV13;B3VMV	Kaliocin-1;Lactoferrox	LF;LTF;GIG12
Q6ZW64	cDNA FLJ41552 fis, clone COLON2004478,	
P01833;Q8TE27	Polymeric immunoglo	PIGR
P19835-1;P19835;B4DSX9;O75612;Q86SF	Bile salt-activated lipa	BAL;CEL
A2MYD0;A2NYV5;Q8NEJ1;Q96SB0	V1-17 protein;Light ch	V1-17
Q15537;Q6PIL8;Q6PJF2	J kappa 5;IGK@ prote	IGK@
P05814	Beta-casein	CASB;CSN2
Q96K68;Q6MZW0;Q8WY24;Q6N090	cDNA FLJ14473 fis, cl	DKFZp686J11235;D
P61769;A6XND9;A6XMH4;B4E0X1;A6XMH	Beta-2-microglobulin;	B2M;CDABP0092;H
P61626;B2R4C5	1,4-beta-N-acetylmur	LYZ;LZM;hCG_2446
P10451-1;P10451;A6XMV6;Q4W597;P104	Bone sialoprotein 1;N	OPN;PSEC0156;SPP
P08571;B2R888	Monocyte differentia	CD14
P05413;B2RAB6;Q6IBD7;P10790;Q58DW	Fatty acid-binding pro	FABP11;FABP3;MD
P47710-1;P47710;A1A510;P47710-2;Q4P	Alpha-S1-casein;Case	CASA;CSN1;CSN1S1
P01011-2;P01011;B3KS79;P01011-1	Alpha-1-antichymotry	AACT;GIG24;GIG25;
P01009-1;P01009;P01009-2;A6YP93;A7L8	Alpha-1 protease inhi	AAT;PI;PRO0684;PR
P10909-2;P10909;P10909-1;B3KSE6;B4DV	Aging-associated gene	AAG4;APOJ;CLI;CLU
Q5VSK2-1;Q5VSK2;B4DLK9;Q0Z8D6;P228	C-type lectin domain t	CLEC13DL;MRC1L1;
P47989;Q585T6;Q9UH91	Xanthine dehydrogen	XDH;XDHA
P07498	Kappa-casein	CASK;CSN10;CSN3;C
P63261;P63258;B4E3A4	Actin, cytoplasmic 2;A	ACTB;ACTG;ACTG1
P01591	Immunoglobulin J cha	IGJ
P01609	Ig kappa chain V-I region Scw	
B4DPP2;Q53F31;Q6GTG1;Q6LDC6	Gc-globulin;Group-sp	GC;vitamin D bindin
Q6WN34-2;Q6WN34;A8MQ10;Q6WN33;Q	Breast tumor novel fa	BNF1;CHL2;CHRD12
Q65ZC8;P06326;P01761;P01742	Single-chain Fv;Ig hea	scFv
P18135;P01623;P01622;P01620;A2NB46;	Ig kappa chain V-III region HAH;Ig kappa c	
P01024;A7E236;B4DR57;B4E216;Q6LDJ0	C3 and PZP-like alpha	C3;CPAMD1
P06733-1;P06733;A4QMW8;A4UCS8;Q96	2-phospho-D-glycerat	ENO1;ENO1L1;MBP
Q6ZVX0;Q7Z374;P01877;A6NE94	cDNA FLJ41981 fis, cl	IGHA2
P02787;A0PJA6;B4DEX9;B4DHZ6;B4DI57;	Beta-1 metal-binding	PRO1400;TF;hCG_2
P15291-1;P15291;B2R710;B4DLB8;B4DM	Beta-1,4-galactosyltra	B4GALT1;GGTB2
P02647;Q6LEJ8;Q8TDB0;Q9Y355	Apolipoprotein A1;Ap	APOA1
P25311	Zinc-alpha-2-glycopro	AZGP1;ZAG;ZNGP1
Q9UL88	Myosin-reactive immunoglobulin heavy ch	
P02652	Apolipoprotein A2;Ap	APOA2
Q13410;Q4VAN2;Q4VAN3;Q4VAN1	Butyrophilin subfamil	BTN;BTN1A1
Q6NS95;A0M8Q9	IGL@ protein;C1 segn	IGL@
A2KBB9;A2KBC0;A2KBC2;A2KBC3;A2KBC4	Anti-(ED-B) scFV;Anti-	IGHV
Q5FC00	Carbonic anhydrase V	CA6
P04433;A0N5G5;A6NJ14;B1N7B8	Ig kappa chain V-III re	V<kappa>3
P04075;A4UCS9;A4UCT0;A6QLL8	Fructose-bisphosphat	ALDA;ALDOA
B4DDH0;B4E344;Q6U2E0;Q6U2E5;Q6U2E	cDNA FLJ55146, highl	C4B;C4A;XXbac-BCX
P01034	Cystatin-3;Cystatin-C;	CST3

P04745;B7ZMD7;Q53F26;Q6NSB3;P19961	1,4-alpha-D-glucan gl	AMY1;AMY1A;AMY
P01842;Q6PJR7;Q8N355;Q8TCJ5	Ig lambda-1 chain C re	IGLC1;IGL@;DKFZp6
B2RDA1	cDNA, FLJ96520, Hom	OPN;SPP1
P23284;P80311;Q862P3	Cyclophilin B;CYP-S1;P	CYPB;PPIB
P00738;Q0VAC5;B3KP77;Q6NSB4;Q6PEJ8	Haptoglobin;Haptoglob	HP;HPR
P13987;Q6FHM9	1F5 antigen;20 kDa ho	CD59;MIC11;MIN1;
Q92876-1;Q92876;Q92876-2	Kallikrein-6;Neurosin;	KLK6;PRSS18;PRSS9
Q16851-1;Q16851;Q53QE9;B2RAN1;B4D	UDP-glucose pyropho	UGP1;UGP2
Q96KP4;B3KUG4;B4DPF1;B4DV28;Q8WY5	CNDP dipeptidase 2;C	CN2;CNDP2;CPGL;P
P07195;Q5U077;A8MW50	LDH heart subunit;L-la	LDHB;hCG_24788
O00391-1;O00391;A8K477;A8K4C2;A8MX	Quiescin Q6;Sulfhydry	QSCN6;QSOX1;UNC
Q9UL85;Q9UL83	Myosin-reactive immunoglobulin kappa ch	
P20061;A8KAC5	Transcobalamin I;Trar	TC1;TCN1
P04004;B7Z553	Serum-spreading fact	VTN
Q53HE2;P60174-1;P60174;B4DUI5;B7Z5D	Triosephosphate isom	TPI;TPI1
Q08431;B3KTQ2;B4E396;Q7Z3D2	Breast epithelial antig	MFGE8
P30086;B2R4S1;B4DRT4	HCNPPP;Hippocampa	PBP;PEBP;PEBP1
P02749;B4DPN0	Activated protein C-b	APOH;B2G1
Q5NV84;Q6PIQ7;Q6GMW3	V1-3 protein;IGL@ pr	IGLV2-11;V1-3;IGL@
Q08380;B4DVE1;B4DWA8;B3KP88;B4DDC	Basement membrane	LGALS3BP;M2BP
P63104;A8K1N0;P63103;B0AZS6;B7Z2E6;	14-3-3 protein zeta/d	YWHAZ
P04406;Q2TSD0;Q53X65;A4UCT1;Q16768	Glyceraldehyde-3-ph	CDABP0047;GAPD;C
P01008;Q9UE54	Antithrombin-III;Serp	AT3;PRO0309;SERP
P01042-2;P01042;B4DPP8;P01042-1;B4E1	Alpha-2-thiol protein	KNG;KNG1;hCG_20
P62937;A8K220;A8K486;B2RE56;Q71V99	Cyclophilin A;Cyclosp	CYPA;PIIA
A2NYQ9	Anti-folate binding pr	HuVH8B VH
P18065;P13384;A0JGW5;Q59FF1	Insulin-like growth fac	BP2;IBP2;IGFBP2
Q5NV90	V2-17 protein	IGLV3-25;V2-17
P02649;C0JYY5;Q6LBZ1;Q13791;Q6LA97;	Apolipoprotein E;MRN	APOE
P02750;B4E118;Q68CK4	Leucine-rich alpha-2-g	LRG;LRG1;hCG_200
P06396-1;P06396;B7Z6N2;B7Z9A0;Q5TOI	Actin-depolymerizing	GSN;hCG_27454;RP
A5JHP3;P81605;Q53YJ2	Dermcidin isoform 2;D	DCD;AIDD;DSEP;hCG
P06309;A2NB45;P01617;A2IPI1;P01614;A	Ig kappa chain V-II region	GM607;Cold aggl
P07900-2;P07900;B3KPJ9;Q86SX1;Q76LV	Heat shock 86 kDa;He	HSP90A;HSP90AA1;
P19120;A8KC76;Q861V2;P11142-1;P1114	Heat shock 70 kDa pro	HSC70;HSP73;HSPA
Q9UL71	Myosin-reactive immunoglobulin heavy ch	
P15328;O14597;Q6LDL1;Q96QD1;Q9NP0	Adult folate-binding p	FOLR;FOLR1
B4DLV7;Q5SX90;P50395;Q6IAT1;B3KVE3;	cDNA FLJ60299, highl	GDI2;RP11-318E3.2
B1AVU8;P07602-3;P07602;B4DEK5;B4DR	Prosaposin;A1 activat	PSAP;RP11-472K8.1
B4DV10;P61916;B2R4S5;B4DQV7;Q53HV	cDNA FLJ59142, highl	HE1;NPC2
B7Z3I7;P40925;B2R5V5;B4DUN2;B9A041;	Malate dehydrogenas	MDH1;MDHA
A2J1M2;A2J1M3;A6NH92	Rheumatoid factor RF-IP9;Rheumatoid fac	
P08697;B4E1B7	Alpha-2-antiplasmin;A	SERPINF2
P49327;Q13587;Q6PJJ3	[Acyl-carrier-protein]	FAS;FASN
Q16651;B4DWP2	Prostasin;Prostasin he	PRSS8
P36871-1;P36871;B2R5N9;B4DDQ8;B4DF	Glucose phosphomuta	PGM1;phosphogluc
P01871-2;P01871;P01871-1;Q86TT1	Ig mu chain C region;P	IGHM
Q5T7Y6;P23297;B2R5D9;P02639	S100 calcium binding	S100A1;S100A
P01613;P01594;Q6LBV5	Ig kappa chain V-I region Ni;Ig kappa chair	
Q0ZCH4;Q0ZCH7;Q0ZCI8;Q0ZCJ0;Q0ZCJ2;	Immunglobulin heavy	VH

P25774;Q6FHS5;B4DWC9	Cathepsin S;cDNA FLJ	CTSS
A6NLY3;Q9UL78	Myosin-reactive immunoglobulin light cha	
P15311;B2R6J2;B7Z437;B7Z5V2;B7Z9R6;C	Cytovillin;Ezrin;p81;VIL2	EZR;VIL2
P05090;B2R579	Apolipoprotein D	APOD
P31431;B4E1S6;Q6FGN3	Amphiglycan;Ryudoca	SDC4;hCG_38363
P22352;Q6NXQ3	Extracellular glutathio	GPX3;GPXP
P02790;Q9BS19	Beta-1B-glycoprotein;	HPX
P63000-2;P63000;A4D2P0;P63000-1;A4D	Cell migration-inducin	MIG5;RAC1;TC25;h
P21926;A6NNI4;B4DPP0;B4DK09;Q56CY1	5H9 antigen;CD9 anti	CD9;GIG2;MIC3;TSP
Q86YZ3;Q5DT20;Q5W8V9	Hornerin	HRNR;S100A18
B4E1F0;P05155;B4E1H2;Q5UGI6	cDNA FLJ58826, highl	SERPING1
Q06830;B2R4P2;B5BU26	Natural killer cell-enh	PRDX1;TDPX2
P22079;B4E1M1;A5JUY4;Q9H3M1	Lactoperoxidase;Saliv	LPO;SAPX
P61586;B4DKN9;Q53HM4;Q9BVT0;P6158	Rho cDNA clone 12;Tr	ARH12;ARHA;RHO1
P00450;A5PL27;A8K5A4;B7Z5Q2;Q1L857;	Ceruloplasmin;Ferrox	CP;hCG_1781201
B7ZKQ5;Q5T539;P02763;Q5U067	Orosomucoid 1;Oros	ORM1;hCG_202084
P01033;B3KQF4;Q58P21;Q6FGX5;Q5H9A	Erythroid-potentiating	CLGI;TIMP;TIMP1;h
B4E1Z4;Q53F89;P00751-1;P00751;B0QZC	cDNA FLJ55673, highl	CFB;hCG_43699;BF
P00558;A8K4W6;B7Z7A9;B4DHM5;B4E1H	Cell migration-inducin	MIG10;OK/SW-cl.11
Q9NPP6	Immunoglobulin heavy chain variant	
Q9Y509	VH3 protein	VH3
P34096;Q53XB4;P15467	Ribonuclease 4;cDNA	RNASE4;RNS4;hCG_
O75874;B2R5M8;Q0QER2;Q567U4;Q6FH	Cytosolic NADP-isocit	IDH1;PICD;hCG_159
P29373;B2R4Z8;Q5PXY7;A5PJB5;Q5SYZ4	Cellular retinoic acid-b	CRABP2;RP11-66D1
P23528;B3KUQ1;Q5E9F7;B4E112	18 kDa phosphoprote	CFL;CFL1
B4E1U9;P60953-2;P60953;Q2KJ93;B4DM	cDNA FLJ54776, highl	CDC42
P32119;B4DF70;Q9BG13	Natural killer cell-enh	PRDX2;TDPX1
P43490-1;P43490;A4D0Q9;Q5SYT8;Q658	Nicotinamide phosph	NAMPT;PBEF;PBEF1
P62258;B7ZA86;Q4VJB6;P62261	14-3-3 protein epsilon	YWHAE
A6PVW9;B4DKP6;Q13228;B4DPI7;Q49AQ	Selenium binding prot	RP11-126K1.7-006;S
Q05639;Q32PH8;P68104;A8K9C4;A9X7H1	Elongation factor 1-al	EEF1A2;EEF1AL;STN
A0M8Q6	Ig lambda-7 chain C re	IGLC7
A2ABL4;Q9UD35;Q9UD86;Q08345-1;Q08	Discoidin domain rece	DADB-160J14.2-018
P02765;B2R7G1;B7Z8Q2;B7Z556	Alpha-2-HS-glycoprot	AHSG;FETUA;PRO27
P05156;Q6LAM0;Q6LAM1;A8K3L0;B4DRF	C3B/C4B inactivator;C	CFI;IF
B4DE31;P29401;A8K089;B4E022;Q53EM5	cDNA FLJ54957, highl	TKT;DKFZp686J1312
P36955;Q2TU83	Cell proliferation-indu	SERPINF1
P01771	Ig heavy chain V-III region HIL	
A2N2W9;Q5NV73;Q7Z2E8;Q9NSD6;P017	VL4 protein;V2-13 pr	VL4;V2-13;VL3L;IGL
P07339	Cathepsin D;Cathepsi	CPSD;CTSD
Q02818;A8K7Q1;B2RD64;B3KUR6;Q53GX	CALNUC;Nucleobindir	NUC;NUCB1
Q99497;B2R4Z1;Q5E946	Oncogene DJ1;Parkins	PARK7
P51149;B4DPH9;Q3T0F5	Ras-related protein Ra	RAB7;RAB7A
P31946-1;P31946;A8K9K2;B5BU24;P6825	14-3-3 protein beta/a	YWHAB;RP1-148E22
A2NZ55	Variable immnoglobulin anti-estradiol hea	
A2MYD2;A2NUT2;A2NV54;Q567P1;Q5NV	V1-19 protein;Lambd	V1-19;IGL@;IGLV1-4
P01766;A6NH40;A2J423;A0N5T0;A6NG04	Ig heavy chain V-III re	V<gamma>1
P04217;A8K052;B3KP79;Q7Z3U3	Alpha-1-B glycoprotei	A1BG;DKFZp686F09
Q9NP72;B3KMC7;Q0IIG8;B7Z5V3;Q5W0I9	Ras-related protein Ra	RAB18;RP11-148B2
Q99541;B4DJK9;Q6FHZ7;B4DNH6;Q5SYF5	Adipophilin;Adipose c	ADFP;PLIN2;hCG_28

P04792;B2R4N8;B4DL87	28 kDa heat shock protein	HSP27;HSP28;HSPB
P01133;B4DRK7;Q6QBS2	Epidermal growth factor	EGF
P01781	Ig heavy chain V-III region	GAL
P80303-1;P80303;P80303-2;A7LNF3;A7LNF4	DNA-binding protein	NEFA;NUCB2;Nucb2
A8MUA6;Q6X4U4;A4D125;Q2HJ20	cDNA FLJ36089, 1 kb	SOSTDC1;CDA019;U
P14550;A8KAL8;Q6IAZ4;Q5T621	Alcohol dehydrogenase	AKR1A1;ALDR1;ALR
A8MXW0;P52565;B2R5X1;Q6IBM5;P1980	cDNA FLJ50748, highly	ARHGDIA;GDIA1
Q9H173;Q32KV6	BiP-associated protein	SIL1;UNQ545/PRO8
P08238;A8K3W9;B2R5P0;B4DGL0;B4DMA	Heat shock 84 kDa;Heat	HSP90AB1;HSP90B;
P49189;B4DE91;B4DX14;B4DXY7;B4DYY1	4-trimethylaminobuty	ALDH4;ALDH7;ALDH
P58499-2;P58499;A8MTF8;A8MU26;P584	Cytokine-like protein	C21orf11;C21orf76;
Q14624-1;Q14624;B2RMS9;B7Z545;B7Z5	35 kDa inter-alpha-tryp	ITIH4;ITIH1;PK120;
P06727;Q13784	Apolipoprotein A4;Ap	APOA4
O15498;A4D2J0;B5BU81;Q9UES0;Q3T00	Synaptobrevin homolog	YKT6;hCG_18297;td
O43278-1;O43278;B4DTF6;O43278-2;B2R	Hepatocyte growth factor	HAI1;SPINT1;UNQ2;
Q9H4A3-1;Q9H4A3;C5HTZ5;Q9H4A3-2;A5	Erythrocyte 65 kDa protein	KDP;KIAA0344;PRKV
O60664-1;O60664	47 kDa mannose 6-phosph	M6PRBP1;PLIN3;TIF
Q13630;B2R8Y7;B3KU96;B4DZW9	GDP-4-keto-6-deoxy-L	SDR4E1;TSTA3
Q32Q12;P22392-2;P22392;P22392-1;Q6F	Nucleoside diphosphate	hCG_2001850;NME
A8K674;Q59EM9;Q5PY61;Q66K58;Q96H3	cDNA FLJ75516, highly	UBC;DKFZp434K043
P06858;A8K2M5;B2R5T9;B3KRV7;Q4JIZ7;	Lipoprotein lipase;CD	LPL
Q8IZK7;O75888-1;O75888;Q541E1;Q6FG	TWE-PRIL;A proliferation	APRIL;TALL2;TNFSF
Q2KJ32		
P05154;B4DPC7;B3KTV6;B4DDH1	Acrosomal serine prote	SERPINA5
Q2KIM0;P04066;B2RBG3;B7Z362;B5MDC	Alpha-L-fucosidase I;A	FUCA1;Nbla10230
Q5W0H4;P13693;B2R7E5;B4DL06;B4DKJ	Tumor protein, transmem	RP11-290D2.1-004;
P02760;P78492;B7Z8R6	Alpha-1 microglycoprotein	AMBP;HCP;ITIL
P01859;Q6MZU6	Ig gamma-2 chain C region	IGHG2;DKFZp686C1
P01019;A7L3A3;A7L3A4;A7L3A5;B0ZBE2;	Angiotensin I;Angiotensin	AGT;SERPINA8;hCG
P02748;Q9UGI4	Complement component	C9
Q9NRV9;A8K1G2	Heme-binding protein	HBP;HEBP1
P07237;B2RDQ2;B4DJS0;B4DNL5;B3KTQ9	Cellular thyroid hormone	ERBA2L;P4HB;PDI;P
P01625	Ig kappa chain V-IV region	Len
P52823;B2R6I6;B4DN22;Q71UE5	Stanniocalcin-1;cDNA	STC;STC1
Q14512;A8K5J2	17 kDa heparin-binding	FGFBP;FGFBP1;HBP
P07108-1;P07108;B8ZWD8;B8ZWD6;B8Z	Acyl-CoA-binding protein	DBI;hCG_17322
P13639;B2RMP5;B4DMC6;B4DRE8;Q6PK5	Elongation factor 2;cDNA	EEF2;EF2
P18669;B4DJA4;B4DKL5;B4DMJ7;B7Z9E5;	BPG-dependent PGAM	CDABP0006;PGAM1
P04114;A8K479;C0JYY2;P78482;Q13789;	Apolipoprotein B-100	APOB;hCG_20898
P53634;B4DJQ8	Cathepsin C;Cathepsin	CPPI;CTSC
Q7Z4W1	Carbonyl reductase II;	DCXR
Q9HB40-1;Q9HB40;B4DP22;Q9H2J9	Retinoid-inducible serine	MSTP034;RISC;SCP1
P62739;A4IFM8;A5D7J0;P62736;B2R8A4;	Actin, aortic smooth muscle	ACTA2;ACTSA;ACTV
B4E040;Q6ZS74;P11234;B4E364;Q53T32	cDNA FLJ55177, highly	hCG_17321;RALB
Q16555;A8K5H2;A9CQZ2;B4DR31;Q53ET	Collapsin response med	CRMP2;DPYSL2;ULI
O95973;Q86SX2;A6NCT5;A6NE53;A6NIT6	VH4 heavy chain variable	IGM;VH4-34
P01767	Ig heavy chain V-III region	BUT
P62906;B2R801;Q1JQ76;Q5E9E6;Q862M	60S ribosomal protein	NEDD6;RPL10A;hCG
Q5VUT3;Q9UHD0;B6VEV9	Interleukin 19;Interleuk	IL19;RP11-262N9.2-
P16671;A4D1B1;B3KUB8;B7Z6C3;Q9BQA	Fatty acid translocase	CD36;GP3B;GP4;hC

Q15907;A5YM50;Q5U0I1;Q6FHR0;Q6FI42	GTP-binding protein Y	RAB11B;YPT3;RAB1
A6NJG9;Q86SZ9;Q06323;Q6FHU3;Q6IBM	Putative uncharacteri	PSME1;IFI5111;hCG
P37802;Q5E9F5	SM22-alpha homolog	CDABP0035;KIAA01
P52209;A9Z1X1;B4DQJ8;B4DV68;B4E2U0	6-phosphogluconate d	PGD;PGDH
P07858;A8K2H4;B3KQR5;B4DMY4;Q6LAF	APP secretase;Cathep	CPSB;CTSB;DKFZp68
Q9HAV0;A8K3F6;B3KMH5;A5PKD6;P6287	Guanine nucleotide-b	GNB4;GNB2;hCG_2
A1L528;P62820-1;P62820;Q5U0I6;Q9H0U	Ras-related protein R	RAB1;RAB1A;hCG_2
P31944;A9UFC0;B2CIS9	Caspase-14;Caspase-1	CASP14;hCG_38589
Q01518-1;Q01518;B2RDY9;B4DI38;B4DN	Adenylyl cyclase-asso	CAP;CAP1;RP11-115
Q12841;A8K523;B4DTT5;B4DTZ8;Q9BZQ	Follistatin-like protein	FRP;FSTL1
P36222;Q9NY41	39 kDa synovial prote	CHI3L1
P48637;B2R697;B7Z1C5;B7Z514;Q8TDA8	Glutathione synthase	GSS
Q15181;P37980;Q5SQT6	Inorganic pyrophosph	IOPPP;PP;PPA1;RP1
P29966;Q05C82;Q6NVI1	Myristoylated alanine	MACS;MARCKS;PRK
P00747;B2R7F8;B4DPH4;Q68DS2;Q9UBQ	Activation peptide;An	PLG;DKFZp779M027
P02671-1;P02671;A8K3E4;P02671-2;Q4Q	Fibrinogen alpha chain	FGA
B4DWK6;B1AVQ5;Q9UMI8;A5YRU5;A6ZIL	cDNA FLJ60927, highl	MUC1;RP11-263K19
P30041;A4UCS6;A8JZY7	1-Cys peroxiredoxin;2	PRDX6
P10643;A8K2T4;B2R6W1;Q05CI3;B4E3S6	Complement compon	C7
Q9UL46;A8MZ76;Q2TNB3;Q6FHK9;Q86SZ	11S regulator comple	PSME2
Q02790;B2R9U2	51 kDa FK506-binding	FKBP4;FKBP52
Q9UHL4;B4DPD6;Q59EM4	Dipeptidyl aminopept	DPP2;DPP7;QPP
P21399;Q5VZA7;Q9HBB2;Q0VCU1;Q59FI	Citrate hydro-lyase;Cy	ACO1;IREB1;IRP1;R
P61019;B2R5W8;B4DMQ5;O75546;A8MV	Ras-related protein R	RAB2;RAB2A
P26038;Q6PJT4;A8MZ70;Q2HJ49	Membrane-organizing	MSN
P10599;Q9UDG5;B1ALW1;O60744;O9768	ATL-derived factor;Su	TRDX;TRX;TRX1;TXN
P00918;B2R7G8;Q6LD99	Carbonate dehydratas	CA2;carbonic anhyd
O00592-1;O00592;B7ZKQ8;O00592-2;Q9	GCTM-2 antigen;Gp20	PCLP;PCLP1;PODXL
Q95M18;P14625;Q59FC6;Q5CAQ5;Q96G	94 kDa glucose-regula	GRP94;HSP90B1;TR
P14324	Dimethylallyltranstran	FDPS;FPS;KIAA1293
P19823;A2RTY6;Q5T985;B4DM79	Inter-alpha-trypsin inh	ITIH2;hCG_25115;R
P28838-1;P28838;P28838-2;B3KMQ3;B4D	Cytosol aminopeptida	LAP3;LAPEP;PEPS
P12273;A0A963;A0A9C3;A0A9F3;A4D2I1	gp17;Gross cystic dise	GCDFP15;GPIP4;PIP
Q9HCC1	Single chain Fv	
P00491;Q8N7G1;Q9P1G4	Inosine phosphorylase	NP;PNP
P35754;B2R4L2	Glutaredoxin-1;Thiolt	GLRX;GRX
Q8IVC0;P05546;B2RAI1	Serpin peptidase inhib	SERPIND1;HCF2
P01876;Q8NCL6;Q9UP60	Ig alpha-1 chain C reg	IGHA1;SNC73
P30043	Biliverdin reductase B	BLVRB;FLR
Q01459;B2RBF5;B3KQ53;B4DQ98;Q5VX5	Di-N-acetylchitobiase	CTB;CTBS;hCG_250
P60981;B2R6N2;Q5E9D5;B4DYA6;B7Z9M	Actin-depolymerizing	ACTDP;DSN;DSTN;h
P19652;B2R5L2;Q5T538;Q6IB74	Alpha-1-acid glycopro	AGP2;ORM2;hCG_2
B4E175;Q53GF4;Q15833;O00184;Q9BU6	cDNA FLJ54775, highl	STXBP2;UNC18B;hC
P30050-1;P30050;Q59FI9;P61284;Q862L	60S ribosomal protein	RPL12
A7MBI5;B3SXQ8;Q6DEN2;Q8IXW6;Q1419	Collapsin response me	LCRMP;DPYSL3;CRN
P43652;A8K3E1;Q4W5C5	Afamin;Alpha-albumin	AFM;ALB2;ALBA
Q9UL92;P01743	Myosin-reactive immunoglobulin heavy ch	
P42330;B4DL37;Q2XPP3;P17516;Q04828	17-beta-hydroxysterol	AKR1C3;DDH1;HSD
P30085;B2R6S5;Q2KIW9;B4DDL4;B4DPU7	Cytidine monophosph	CMK;CMPK;CMPK1;
Q9UBR2;B2RC40;Q5U000;B9ZVX6;P0568	Cathepsin P;Cathepsin	CTSZ

P22314;B4DDE4;A3KMOV5;O77800;Q9N1X	Protein A1S9;Ubiquitin	A1S9T;UBA1;UBE1
P14618-1;P14618;B4DNK4;Q8WUW7;Q9N	Cytosolic thyroid horr	OIP3;PK2;PK3;PKM;
A6NHF2;B4DFX1;B4DLJ9;P43251;B2R865;	cDNA FLJ59679, highl	BTD
Q99536;A8K345;B0AZP7;B3KUF8;B4DPX4	Synaptic vesicle mem	VAT1
A2NXP8;A2NWW1	Heavy chain variable r	VH-3 family (VH26)I
Q9H772	Cysteine knot superfa	CKTSF1B2;DAND3;G
Q15782;Q53FH2;Q96F97;A6NNY3;A8MTN	Chitinase-3-like prote	CHI3L2;hCG_17605
Q9NUW1;Q9NV23;Q5VUB6	Augmented in rheum	AURA1;hCG_17738
P61204;A8K6G8;P84077;P84080;Q5E9I6;	ADP-ribosylation fact	ARF3;ARF1
P02751-15;P02751;P02751-7;Q6MZM7;Q	Anastellin;Cold-insolu	FN;FN1;DKFZp686O
Q96S86;A8K7P0;A8K7T8	Hyaluronan and prote	EXLD1;HAPLN3;UNC
P11532-1;P11532;B1AK23;Q548X2;Q7KZ4	Dystrophin;DMD prot	DMD;GS1-19O24.1-
P31949;B2R5H0;Q862H7	Calgizzarin;Metastatic	MLN70;S100A11;S1
P08603-1;P08603;A8K5T0;Q14006;P0860	Complement factor H	CFH;HF;HF1;HF2;RP
P07741;Q56JW4	Adenine phosphoribo	APRT
A7Z057;P61981;B3KNB4;B4DHC4;P68252	14-3-3 protein gamma	YWHAG
P23381;B4DTK8;P78534;Q502Y0;Q53XB6	Interferon-induced pr	IFI53;WARS;WRS
Q86X29-1;Q86X29;A6NDW3;B4DKL4;Q86	Lipolysis-stimulated li	LISCH;LSR
P19827;A8K9N5;B7Z539;B7Z549;B7Z558;	Inter-alpha-trypsin inh	ITIH1
Q1RMX7;Q9NR45;B2RE98	N-acetylneuraminate	NANS;SAS
P51148;Q58DS9;P61020;A8K982;Q6FI54;	L1880;RAB5L;Ras-rela	RAB5C;RABL;RAB5B
B4DIM0;Q4LE36;P53396;Q8N9C4;Q32PF2	cDNA FLJ56442, highl	ACLY variant protein
A8MPU4;Q53GN4;Q53H17;Q59ER5;O750	Actin-interacting prot	WDR1;hCG_19377
P01773	Ig heavy chain V-III region BUR	
P34896-1;P34896;Q53ET7;Q96HY0;P3489	Glycine hydroxymethyl	SHMT1;SHMT
B4DI54;B4DXY3;Q53FA3;P34931;B2RCQ9	cDNA FLJ56386, highl	DAAP-21F2.9-001;H
P27348;B4DMT8;B4DY04;Q53S41;Q3SZI4	14-3-3 protein tau;14	YWHAQ
Q6N0B3;Q8TBV2;P07355;P04272;B4DNH	Annexin A2;Annexin I	ANX2;ANX2L4;ANXA
A2J1N6	Rheumatoid factor RF-ET9	
Q15365;Q53SS8;Q5E9A3;P57721-1;P5772	Alpha-CP1;Heterogen	PCBP1;hCG_177699
A6XGL1;P02766;A6XMH1;Q53WY6;Q8TD	Transthyretin;ATTR;P	PALB;TTR;transthyr
Q15375-1;Q15375;B7ZLK0;Q15375-2;B7Z	EPH homology kinase	EHK3;EPA7;HEK11
P00441;A8MST3	Superoxide dismutase	SOD1
P13796;B3KUI1;Q53FI1;Q59GX5;Q5TBN4;	LC64P;L-plastin;Lymph	LCP1;PLS2
P30101;B3KQT2;B3KQT9;B4DDM1;B4DJ9	58 kDa glucose-regula	ERP57;ERP60;GRP5
P37837;B4DID5;Q8WZ45;Q9UMF8	Transaldolase;cDNA F	TAL;TALDO;TALDO1
B7XD04;Q63HL5;P15289	Arylsulfatase A;Putati	ARSA;DKFZp686G12
A5PKI3;Q92520	Protein FAM3C	FAM3C;GS3786
Q8N474;A8KAM5;Q05DS5;O19116	Secreted apoptosis-re	FRP;FRP1;SARP2;SF
P30044-1;P30044;A8MVL5;P30044-2;A6N	Alu corepressor 1;Ant	ACR1;PRDX5;SBB10
Q9HAT2-1;Q9HAT2;B3KPB0;Q9HAT2-2	H-Lse;Sialate O-acetyl	SIAE;YSG2
Q04917;B2R6N6;P68509	14-3-3 protein eta;Pro	YWHA1;YWHAH
A6NKB8;Q9H4A4;Q7RU04	Putative uncharacteri	RNPEP;APB
B4DE59	cDNA FLJ60424, highly similar to Junction	
P11021;B0QZ61;B4DEF7;Q2KHP4;Q0VCX2	78 kDa glucose-regula	GRP78;HSPA5
A7MBN2;P24821-1;P24821;Q4LE33;Q5T7	TNC protein;Cytotacti	TNC;HXB;TNC variat
P09972;B2R5R3;B7Z1N6;B7Z1Y2;B7Z1Z9;	Brain-type aldolase;Fr	ALDC;ALDOC
P49908	Selenoprotein P	SELP;SEPP1
Q14376;B3KQ39;Q38G75;Q3T105;Q5QPP	Galactowaldenase;UD	GALE;RP5-886K2.6-
Q12805-1;Q12805;A8K3I4;A8KAJ3;B2R6M	EGF-containing fibulin	EFEMP1;FBLN3;FBN

P01023;Q9BQ22	Alpha-2-macroglobulin	A2M;CPAMD5;FWP
A2NYV1	Heavy chain Fab	
Q53H87;Q53HP5;Q59G10;O75891;B4DGG3	Formyltetrahydrofolate	ALDH1L1;FTHFD;hCG
O94760;B1AKK2;B4DGT0;B4DYP1;P56965	DDAH;Dimethylarginine	DDAH;DDAH1;hCG
P47895;B2R5T2;B4DYU3;Q7Z3A2	Aldehyde dehydrogenase	ALDH1A3;ALDH6;DH
P09467;A8QID0;B2RE74;Q2TU34	D-fructose-1,6-bisphosphate	FBP;FBP1;hCG_1640
A8K1M2;B2RDW0;P62158;B4DJ51;Q96HY	cDNA FLJ75174, highly	CALM;CALM1;CALM
P27105;B4DZK8;B4E2V5;A8E4P3	Erythrocyte band 7 in	BND7;EPB72;STOM
Q14118;B4DN78	Alpha-dystroglycan;Beta	DAG1
P02675;B2R7G3;B4E1D3;Q32Q65	Fibrinogen beta chain	FGB
O14745;B2R6A3;B3KY21;B3KSV9	Ezrin-radixin-moesin-	NHERF;NHERF1;SLC
P15924-1;P15924;P15924-2;B2RTT2;B4D	250/210 kDa paraneoplastic	DSP;DSP variant pro
Q86YS6;A8K4P9	Ras-related protein R	RAB41;RAB43
Q8NF20;P01880-2;P01880;P01880-1	FLJ00382 protein;Ig d	IGHD
Q6AZZ1;B3KPM5;B4DVK4;Q96LE5	E3 ubiquitin-protein li	GC109;RNF137;SS5
Q99102-1;Q99102;Q99102-10;Q99102-11	Ascites sialoglycoprotein	MUC4
Q9UL25;Q96GX3;Q17R06	Ras-related protein R	KIAA0118;RAB21
P11216;B4DSD8;Q59GM9	Glycogen phosphorylase	PYGB
O00299;Q53FB0;Q5SRT3	Chloride channel ABP	CLIC1;NCC27;DADB
B4DTG2;Q3SZV3;Q1JPA2;Q862B9;Q862P4	cDNA FLJ56389, highly	EEF1G;EF1G;PRO16
A2BFH1;Q9Y536	Chromosome 1-amplified	COAS2;PPIAL4;PPIA
Q13277-1;Q13277;B4DME0;Q53YE2;Q7Z3	Syntaxin-3;cDNA FLJ6	STX3;STX3A;hCG_40
Q9NZH0;B7Z831;Q1JPD9;B7Z2G0;B7Z9M	A-69G12.1;G-protein	GPRC5B;RAIG2
P28799-1;P28799;B4DJI2;Q53HQ8;Q540U	Acrogranin;Granulin A	GRN
P22676;Q3ZBY3;A6NER6;A8MY71	29 kDa calbindin;Calret	CAB29;CALB2;hCG
P05067-1;P05067;B2R5V1;P05067-9;P050	ABPP;Alzheimer disease	A4;AD1;APP
B4DE36;B4DG39;P06744;B4DVJ0	Glucose-6-phosphate	GPI
P61764-2;P61764;B1AM97;B7Z2V7;P6176	N-Sec1;p67;Protein u	STXBP1;UNC18A;hCG
B7TY16;A1L0V1;B4DHH3;Q1HE25;Q3B7N	Actinin alpha 1 isoform	ACTN1;hCG_22243
P07686;Q5URX0;B4DVA7;P06865;Q9BVJ8	Beta-hexosaminidase	HCC7;HEXB;HEXA
A5D7D1;O43707;Q96BG6;A4K467	Alpha-actinin-4;F-actin	ACTN4
Q3B8N2-1;Q3B8N2;B4DKP4;Q6DKI2;Q3B8	Galectin-9B;Galectin-9	LGALS9B;LGALS9C;L
Q15631;Q53GR3;Q08DM8;B3KRM8;B7Z5	Translin;Translin varia	TSN;hCG_37642
A7YIJ8;A7YIK3;Q32LP2;A6QQJ5;P35241;B	Radixin isoform b;Rad	hCG_39182;RDX;DK
Q14240-2;Q14240;Q3SZ65;Q9XT93;Q142	ATP-dependent RNA h	DDX2B;EIF4A2;EIF4
P00338-1;P00338;B7Z5E3;P00338-2;B4DJ	Cell proliferation-indu	LDHA;PIG19;hCG_9
P00734;B4DDT3;Q15253;Q69EZ7;Q69EZ8	Activation peptide fra	F2
P13667;A8K4K6;Q549T6;Q29RV1;A5D971	Endoplasmic reticulum	ERP70;ERP72;PDIA4
P17931;Q59FR8;Q6FGL0;Q6IBA7;Q6NVH9	35 kDa lectin;Carbohydr	LGALS3;MAC2
Q6PCB0-1;Q6PCB0	von Willebrand factor	VWA1
Q5VZE3;Q8NBJ4-1;Q8NBJ4;B3KNK9;Q8NE	Golgi membrane prot	GOLM1;RP11-379P
P49419;Q2KJC9;B4DMA0	Aldehyde dehydrogenase	ALDH7A1;ATQ1
P06737;B2R825;B4DUB7;Q0VCM4	Glycogen phosphorylase	PYGL
Q6XQN6-1;Q6XQN6;Q8WY82;Q6XQN6-3;	FHA-HIT-interacting p	FHIP;NAPRT1
B2R5M9;B4DR87;Q5JXB8;Q02809;O7758	cDNA, FLJ92537, highly	PLOD1;RP5-1077B9
B4DEG8;Q53GX7;P26639;A8K8I1;B2RDX5	cDNA FLJ53464, highly	TARS
P11940-1;P11940;B4DZW4;B3KT93;P612	Polyadenylate-binding	PAB1;PABP1;PABPC
Q02413;B7Z845	Cadherin family mem	CDHF4;DSG1
P12821-1;P12821;P12821-2;B4DKH4;B4D	Angiotensin-converting	ACE;DCP;DCP1
Q06210-1;Q06210;A8E645;Q8WN68;Q06	D-fructose-6-phosphate	CALR;CRTC

Q86SQ4-3;Q86SQ4;Q6DHz4;Q6F3F6;Q8IX	Developmentally regu	GFAT;GFPT;GFPT1
B7Z6Q5;P16278-1;P16278;B7Z6B0;Q53G4	Beta-galactosidase;Ac	DREG;GPR126;VIGR
P08107;A8K5I0;B4DI39;B4E1S9;Q9UQC1;	Heat shock 70 kDa pr	ELNR1;GLB1
Q27970;Q6DW14;Q6QDT8;P07384;B2RDI	Calcium-activated neu	HSPA1;HSPA1A;HSP
P04040;B4DWK8;Q8TAK2	Catalase;Similar to ca	CANPL1;CAPN1;PIG
A7MBJ4;P10586-1;P10586;P10586-2;Q59	Leukocyte common a	VCP;DKFZp434K012
P27797;B4DHR1;B4E2Y9;Q53G71;Q6IAT4	Calregulin;Calreticulin	CAT
P55072;B2R5T8;Q0IIN5;Q0V924;Q2TAI5;Q	15S Mg(2+)-ATPase p	LAR;PTPRF
O43493-1;O43493;B8ZZ88;O43493-3;O43	TGN38 homolog;TGN4	TGN46;TGN51;TGO
O60603;B3KWR9	Toll/interleukin-1 rece	TLR2
P07864	Cancer/testis antigen	LDHC
P06753-2;P06753;B2RDE1;Q5KR47-2;Q5K	Gamma-tropomyosin	TPM3;RP11-205M9
A7BI36;Q9P2E9-1;Q9P2E9;Q9P2E9-2;A1A	p180/ribosome recep	DPP3;DKFZp686O11
Q9NY33-1;Q9NY33;B4DLX4;B4E357;Q53G	Dipeptidyl aminopept	ATRN;KIAA0548;MC
O75882-1;O75882;O75882-2;B4DZ36;O75	Attractin;DPPT-L;Mah	POLD;POLD1
Q308M6;P28340;P28339;Q59FA0	DNA polymerase;DNA	RRBP1;KIAA1398;Rf
P54802;Q14769;Q59FD0	Alpha-N-acetylglucosa	NAGLU;UFHSD1;hC
B4DHD2;B7Z5C1;Q4W4Y1;Q6NUS1;Q8W	cDNA FLJ55458, highl	DRIP4;PDCD6IP;AIP

Average allergic mothers	Std. dev. allergic mothers	Average non-allergic mothers
9,074242	0,31	9,4203958
9,5753725	0,14	9,4617622
9,6074999	0,23	9,5229652
8,5283657	0,20	8,4357813
8,8543668	0,24	8,7640692
8,462776	0,26	8,4197056
8,0966193	0,19	8,0997895
8,0268671	0,18	7,998319
7,5647664	0,49	8,3907927
8,0603746	0,17	7,7434792
7,3690815	0,22	7,5393328
7,5008695	0,44	7,031845
7,4068696	0,41	8,0929567
7,6233511	0,25	7,5753152
7,4411733	0,46	7,3351568
7,2305963	0,83	7,7885459
7,6535428	0,40	7,5897058
7,6008565	0,28	7,6248854
7,677062	0,39	7,6513455
8,0400057	0,17	7,7927816
7,9362986	0,52	7,7538993
6,7264896	0,71	6,9476968
7,3239666	0,36	7,156066
6,7647391	0,40	7,6166386
3,9748202	0,22	3
7,2986314	0,24	7,081805
7,1633773	0,29	7,1700958
6,6968395	0,25	6,4561937
6,7340348	0,32	6,5677519
7,7628252	0,36	7,5150196
7,1837096	0,50	7,123792
7,0765541	0,26	7,0834726
7,2986871	0,24	7,1162369
6,6860009	0,19	6,918896
6,9270885	0,25	7,0423247
6,8456136	0,37	7,0800873
6,4439139	0,29	5,4447433
6,3433467	0,37	6,5017279
7,0370911	0,58	7,1594745
6,5663569	0,17	6,5447011
6,5459491	0,30	6,2546269
6,5023849	0,26	6,1203709
6,268282	0,33	6,2685322
6,7408474	0,46	6,5883571
7,3840042	0,49	7,17039
6,3318132	0,20	5,3389348

6,7929615	0,56	6,5044859
6,3627342	0,22	6,5182713
3	0,58	3,432742
6,4136152	0,32	6,0072267
6,5542123	0,46	6,7371921
5,8493222	0,81	6,1624781
6,321983	0,28	6,3145934
6,6945325	0,44	6,6983118
6,6574682	0,47	6,4350335
6,4894514	0,47	6,4075486
6,8432498	0,35	6,610797
3	0,35	3,2605434
6,3297875	0,55	6,44289
6,5029881	0,27	6,1768576
6,3893068	0,55	6,3922338
6,4497197	0,49	6,4003045
6,2195992	0,56	6,3081794
6,3206815	0,33	6,1940071
6,0280187	0,14	5,7509614
6,4386043	0,46	6,3415902
6,1638179	0,53	6,4876599
6,1730018	0,59	6,0302318
6,4061338	0,17	6,2288087
6,3309165	0,26	6,291811
5,9385306	0,55	5,939482
3	0,58	3,2672679
6,1960911	0,35	6,28956
5,4432447	0,29	5,5030947
6,2281801	0,30	5,6565286
6,2562764	0,36	6,6029939
6,3522523	0,19	6,1443757
5,5697989	0,18	5,1490188
4,8880971	0,79	4,9562029
6,4604925	0,62	6,2829518
6,330165	0,56	6,4039496
3,2656366	0,36	3
5,9325297	0,41	5,0616877
6,2162154	0,53	5,8945604
6,3630535	0,60	6,7309846
5,7949482	0,26	5,7059191
6,1634821	0,50	5,7750636
3	0,30	3,2785358
6,0603539	0,19	5,6903573
6,9043658	0,60	6,7909438
5,7722826	0,37	5,4878603
6,1921469	0,50	5,9486744
6,0270462	0,48	5,6577955
4,9996949	0,85	6,1447365
4,0382965	0,38	3,1875507
5,6494393	0,77	6,5133042

5,8831462	0,32	5,5205857
3	0,43	3,2008345
6,0209494	0,48	6,0870013
5,6282834	0,33	3
5,2493956	0,67	5,7344906
5,6163934	0,22	5,0714486
5,7218791	0,40	6,1893813
5,4190617	0,64	5,1074151
5,0239721	0,92	4,3500645
6,4768781	0,33	6,1169585
5,9176658	0,44	5,6468802
5,3005206	0,72	5,3202026
6,0464843	0,31	5,8210118
5,3438589	0,58	4,4146831
6,159315	0,35	6,0575281
5,8143885	0,55	6,3840098
4,2047778	0,36	3,7227122
6,3451796	0,26	6,1756296
6,0286571	0,69	5,9488839
5,7585719	0,28	5,5333007
3	0,21	3,1937694
5,4541808	0,56	4,5495932
5,6783906	0,62	5,8365423
5,3818059	0,79	4,3406836
5,5542775	0,70	5,9641795
3	0,43	3,2078964
5,3508843	0,62	5,1729132
5,8641666	0,57	5,4551305
5,6444611	0,51	5,3744012
5,971806	0,68	5,2746776
5,7730154	0,37	5,3571536
3	0,30	3,1871579
5,9298474	0,16	5,7648581
5,5799161	0,52	6,1588161
5,9365131	0,38	5,8939962
5,9247912	0,64	5,9397253
5,6810625	0,27	5,4257796
3	0,28	3,2163102
4,6128247	0,75	4,7180489
5,5606733	0,30	5,518433
5,594185	0,40	6,4428734
5,1991069	0,71	5,4842409
5,3572842	0,65	4,9339826
5,1957441	0,83	5,4687445
3	0,24	3,2212773
3,4925314	0,54	3,5452791
3	0,32	3,1782838
5,6637927	0,38	6,0001389
5,2031871	0,63	4,7079485
5,5632299	0,73	5,7083928

5,124101	0,82	4,9210943
6,0829915	0,41	5,8771627
4,2948413	0,53	3,1966522
5,4995975	0,48	6,7456083
5,179058	0,68	4,9062258
5,5165174	0,82	5,4331112
5,1569012	0,59	5,3719106
5,4272953	0,49	5,252345
5,5618469	0,66	5,1911051
5,6074363	0,61	5,6403298
5,3545331	0,23	4,0929776
5,7865721	0,17	4,5411434
5,7557569	0,58	5,8042146
4,9461568	0,65	4,7310447
5,4674947	0,44	5,2632617
3	0,57	3,2796713
5,5602594	0,56	4,9514218
5,0126906	0,81	4,3169064
5,3919808	0,62	4,5846058
5,8926486	0,39	5,6529081
5,3988978	0,44	4,9764477
3	0,57	3,2745255
5,3044822	0,54	5,2671497
4,5887352	0,90	4,1260156
5,4755792	0,31	5,0440298
4,1268428	0,82	4,0948294
3,2115311	0,32	3,4394184
3,9619537	1,03	3
4,1785277	0,37	4,1810078
5,3604795	0,35	4,7243563
4,8812802	0,82	4,0697523
5,9727326	0,62	6,1654718
3	0,48	3,2529623
4,7538523	0,39	4,5048425
4,4350956	0,78	3,6237353
3,4176605	0,71	4,6250641
5,4087917	0,66	4,719761
4,6854537	0,85	4,1979876
6,4073017	0,62	5,3291347
5,1888318	0,44	4,0066991
4,635151	0,71	3,702538
4,8520517	0,52	4,6208285
3,2613853	0,60	3
4,5015267	0,67	3,5624544
5,2393349	0,65	4,4912401
3	0,61	3,2128755
3	0,40	3,2564405
3,2396531	0,72	3,4761199
3,7492676	0,69	3
4,6646223	0,85	4,13206

4,7318011	0,57	3,4301631
4,6368835	0,74	4,1810077
4,3749692	0,73	3,4724886
4,8209924	0,74	4,7455628
4,7804832	0,50	4,8270496
3	0,44	3,2406813
4,3254722	0,54	3
3	0,28	3,2144792
4,9682875	0,61	4,2390154
5,125223	0,43	5,8684303
4,9144985	0,57	4,0073298
4,9138979	0,61	4,6683097
4,3879311	0,73	4,4602024
4,2782208	0,59	4,8949733
5,079756	0,62	5,0972407
4,7932013	0,62	5,7053651
4,6400187	0,66	3,789253
4,4999669	0,69	3,6527087
5,3977799	0,34	4,48388
4,582439	0,61	4,1564103
4,7500583	0,70	4,3353907
3,4546547	0,20	3
5,0439049	0,69	4,0376654
4,3578581	0,52	3
4,8617979	0,72	3,7062899
3	0,73	3,2523798
4,164684	0,73	3,2553082
4,6284872	0,71	5,4384877
3,7296592	0,35	3,4553927
3,9596003	0,63	3,2337699
4,7418423	0,47	3,2261358
4,5183656	0,69	4,4314809
4,2481313	0,82	4,4141405
3	0,76	3,2166608
4,4553349	0,58	3,9125948
3,8520165	0,62	4,2322605
5,051601	0,33	3,5308675
3	0,36	3,2197501
3,6764425	0,68	3
3,6118729	0,34	3,1975308
3	0,68	3,2106905
3,2716087	0,72	4,1259708
4,5848291	0,43	4,0107233
3,8707227	0,72	3,6932001
4,6481772	0,63	4,3555096
4,8455797	0,53	4,1843789
3	0,71	3,2163817
4,2455634	0,59	3,4786465
4,2104618	0,74	4,4849712
3,8073385	0,56	3,590064

4,7575602	0,58	4,5167869
4,657046	0,60	4,5202032
3,6147458	0,31	3
3,4427732	0,55	3
3	0,51	3,1620469
3,4286017	0,45	3
4,2094764	0,62	3
4,0775952	0,67	4,1670798
3,9566346	0,48	3,1886384
5,4791385	0,28	5,37515
4,1154386	0,54	3,8132394
4,2827597	0,47	3,3409713
3	0,77	3,7031637
5,2828516	0,56	4,1189303
3,7493099	0,60	3,3463362
4,0780176	0,72	4,3568386
4,4157382	0,69	4,2721899
3,4127586	0,29	3
4,4597691	0,35	3
3,8704316	0,57	3,4966884
3,4331305	0,62	3,1775443
4,6546044	0,59	4,1386728
3,8957226	0,56	3,6279956
3	0,68	3,1967131
4,0907877	0,57	3,9007327
3,6246606	0,40	3
4,0033983	0,64	3,204669
3,8881495	0,54	3,8438272
3	0,63	3,1942286
3,8346726	0,64	3,2164769
3,8246144	0,69	6,2357887
4,2800222	0,20	3
3,3615725	0,61	3,2384963
4,3956705	0,51	4,2182495
4,118662	0,89	3,8079429
3,6019369	0,49	3,4053642
3,561049	0,48	3
3,1880871	0,43	3
3,6585075	0,73	3
3,7305394	0,58	3,2256982
4,0183917	0,39	3
3	0,60	3,1889755
3,1916122	0,39	3
3,3970368	0,33	3,2405329
4,33631	0,73	5,0065479
4,8341025	0,49	4,7871367
3	0,49	3,1667985
3	0,37	3,1648818
3,4100923	0,52	3,5379937
3,7318748	0,46	3

4,5674195	0,45	4,3744296
3	0,56	3,1448954
4,3759175	0,60	3,5340545
3,4033514	0,53	3,6962539
3,5771365	0,52	3,9016906
3,6502628	0,62	3,7255008
3,4424665	0,62	4,5717004
3,6210024	0,56	3,1798872
3,6545722	0,39	3,491919
3,5864521	0,44	3,6993436
3,7452043	0,60	5,0987112
5,2688678	0,41	4,7924674
3	0,43	3,1755852
3,3520264	0,39	3,4335564
3	0,40	3,177636
3,7270639	0,51	3,257115
3,2040167	0,49	3
3,6551673	0,48	3,4258646
3	0,46	3,1627622
3,2039136	0,46	3,2236789
3	0,52	3,1337359
3	0,53	3,1626494
3,2089835	0,47	3
3,1747637	0,47	3
3,4849658	0,57	4,846548
3,6239947	0,39	3,5800894
3,4255517	0,46	3
3,7891626	0,38	3
3	0,35	3,1803478
3	0,22	3,3321495
3,9242607	0,54	3,8537521
3,2022016	0,45	3
3,1483687	0,41	3,2011105
3,4519029	0,51	3,4852518
3,5699299	0,33	3
3	0,30	3,1888853
3,1903893	0,32	3,2398513
3,1787482	0,27	3
3	0,29	3,0934806
3	0,28	3,414717
3	0,42	3,1933204
3,2179236	0,42	3
3,3692571	0,25	3
3,1982371	0,34	3,4182644
3,2075511	0,35	3
3,3469018	0,28	3
3,1797392	0,38	3,6329558
3,1866506	0,32	3
3,5519159	0,34	3,5343206
3	0,42	3,4795148

3,5682673	0,43	3,1879944
3,5404266	0,25	3,1688776
3,2932624	0,33	3
3	0,18	3,1408562
3,1204364	0,27	3
3,3497041	0,43	3,3428673
3,168777	0,00	3
4,3258261	0,00	3,7600437
3,1430542	0,00	4,0783498
3,1434473	0,00	3,2025633
3	0,00	3,2004966
3	0,00	3,2361293
3,301154	0,00	3,1778347
3,5001532	0,24	3
3	0,33	3,1611893
3	0,24	3,1986185
3,1570473	0,25	3
3,3661714	0,47	3,7408066

Std. dev. non-allergic mothers	Only allergic mother	Only non-allergic mothers
0,17		
0,17		
0,22		
0,20		
0,22		
0,18		
0,25		
0,37		
0,33		
0,25		
0,25		
0,61		
0,26		
0,15		
0,45		
0,46		
0,51		
0,27		
0,55		
0,22		
0,33		
0,62		
0,36		
0,29		
0,44		
0,20		
0,28		
0,32		
0,39		
0,35		
0,50		
0,30		
0,37		
0,22		
0,26		
0,24		
0,44		
0,41		
0,35		
0,27		
0,49		
0,28		
0,40		
0,61		
0,62		
0,20		

0,24		
0,41		
0,41		
0,31		
0,39		
0,35		
0,30		
0,54		
0,59		
0,53		
0,33		
0,72		
0,46		
0,25		
0,56		
0,52		
0,38		
0,27		
0,42		
0,45		
0,50		
0,60		
0,27		
0,27		
0,65		
0,58		
0,43		
0,47		
0,73		
0,33		
0,49		
0,32		
1,09		
0,64		
0,55		
0,41		
0,64		
0,68		
0,30		
0,18		
0,70		
0,46		
0,18		
0,72		
0,28		
0,56		
0,52		
0,48		
0,64		
0,49		

0,41		
0,45		
0,53		
0,32		
0,33		
0,43		
0,35		
0,49		
1,30		
0,49		
0,46		
0,64		
0,62		
0,42		
0,36		
0,36		
0,37		
0,36		
0,61		
0,39		
0,82		
0,55		
0,59		
0,72		
0,61		
0,37		
0,74		
0,79		
0,55		
0,81		
0,58		
0,42		
0,19		
0,33		
0,37		
0,67		
0,36		
0,59		
1,10		
0,20		
0,28		
0,65		
0,28		
0,54		
0,72		
0,69		
0,79		
0,32		
0,56		
0,48		

1,00		
0,33		
0,66		
0,25		
0,38		
0,75		
0,63		
0,40		
0,64		
0,50		
0,32		
0,49		
0,84		
0,57		
0,37		
0,31		
0,70		
0,79		
0,81		
0,42		
0,62		
0,62		
0,61		
0,98		
0,47		
0,85		
0,39		
0,75		
0,56		
0,58		
0,62		
0,75		
0,87		
0,53		
0,52		
0,75		
0,62		
0,82		
0,75		
0,47		
0,62		
0,50		
0,57		
0,63		
0,61		
0,77		
0,61		
0,79		
0,71		
0,93		

0,63		
0,72		
0,68		
0,85		
0,61		
0,65		
0,71		
0,29		
0,74		
0,40		
0,68		
0,68		
0,78		
0,56		
0,53		
0,58		
0,56		
0,59		
0,38		
0,81		
0,80		
0,41		
0,55		
0,50		
0,59		
0,75		
0,65		
0,71		
0,36		
0,58		
0,39		
0,70		
0,85		
0,76		
0,64		
0,85		
0,36		
0,48		
0,58		
0,33		
0,71		
0,45		
0,50		
0,85		
0,62		
0,57		
0,76		
0,71		
0,92		
0,54		

0,70		
0,67		
0,28		
0,37		
0,42		
0,52		
0,36		
0,79		
0,64		
0,26		
0,54		
0,57		
0,87		
0,57		
0,57		
0,71		
0,74		
0,34		
0,31		
0,69		
0,42		
0,47		
0,48		
0,43		
0,64		
0,34		
0,59		
0,53		
0,62		
0,48		
0,39		
0,15		
0,61		
0,54		
0,51		
0,55		
0,44		
0,11		
0,23		
0,60		
0,21		
0,57		
0,52		
0,25		
0,71		
0,93		
0,50		
0,39		
0,48		
0,36		

0,40		
0,48		
0,56		
0,65		
0,66		
0,73		
0,52		
0,39		
0,35		
0,65		
0,45		
0,51		
0,41		
0,54		
0,38		
0,33		
0,34		
0,44		
0,56		
0,47		
0,57		
0,54		
0,37		
0,21		
0,74		
0,33		
0,33		
0,00	X	
0,37		
0,66		
0,44		
0,00	X	
0,57		
0,55		
0,40		
0,41		
0,43		
0,24		
0,35		
0,46		
0,41		
0,24		
0,00	X	
0,50		
0,29		
0,00	X	
0,45		
0,17		
0,18		
0,27		

0,15		
0,11		
0,17		
0,00	X	
0,00	X	
0,30		
0,56		X
0,27		X
0,37		X
0,22		X
0,12		X
0,55		X
0,20		X
0,00	X	
0,00	X	
0,22		
0,00	X	
0,32		

Significantly different	Ratio allergic/non-allergic	IBAQ intens			
		Mother A1	Mother A2	Mother A3	Mother A4
	-0,3461538	8,114077	8,228862	7,928488	8,348908
	0,1136103	8,148294	8,279713	8,129239	8,219244
	0,0845347	8,094122	8,12827	8,109376	8,480682
	0,0925844	7,372728	7,534191	7,272538	7,721819
	0,0902976	7,248806	7,460642	7,159567	7,616811
	0,0430704	7,03523	6,941978	7,128529	7,389219
	-0,0031702	7,097847	7,376522	7,389024	7,362878
	0,0285481	7,260691	7,265996	7,170027	7,530174
	-0,8260263	6,79148	7,419162	6,458245	7,05446
	0,3168954	6,969868	7,011867	6,904856	7,104521
	-0,1702513	6,611798	6,587711	6,614412	7,023129
	0,4690245	6,870082	6,575603	6,744535	6,862042
	-0,6860871	6,628164	6,969019	6,437212	6,904764
	0,0480359	6,551267	6,780627	6,455195	6,775581
	0,1060165	6,81298	7,255152	5,879394	6,845848
	-0,5579496	6,274942	7,650404	5,563089	7,026493
	0,063837	6,845743	6,883883	6,176149	6,886592
	-0,0240289	6,263991	6,68752	6,418831	6,625354
	0,0257165	6,566084	6,338138	6,246203	7,217852
	0,2472241	6,411266	6,447809	6,424653	6,576479
	0,1823993	6,364532	6,97613	5,166608	6,733623
	-0,2212072	5,836286	7,062883	5,256718	6,664764
	0,1679006	6,313867	6,683398	5,76723	6,478812
	-0,8518995	6,095344	6,637159	5,816652	6,607476
	0,9748202	5,845823	6,127656	6,009281	6,49195
	0,2168264	6,028896	6,145507	6,029627	5,983094
	-0,0067185	5,931961	5,881961	5,958831	6,31353
	0,2406458	5,790566	5,969085	5,969141	6,4757
	0,1662829	5,807136	5,990885	5,76458	6,395571
	0,2478056	6,056333	6,312537	5,655935	6,33656
	0,0599176	6,043676	6,72462	5,304663	6,441884
	-0,0069185	6,083216	5,873698	5,75817	6,258852
	0,1824502	6,011317	5,883923	5,898922	6,227038
	-0,2328951	5,91688	6,047664	5,678973	6,010893
	-0,1152362	5,469778	5,842909	6,007321	5,876916
	-0,2344737	5,865465	5,961768	5,606897	6,190248
	0,9991706	5,61362	5,821763	5,395274	6,290413
	-0,1583812	5,767972	5,836457	5,890751	6,0086
	-0,1223834	5,903172	6,566744	4,715192	6,062469
	0,0216558	5,865015	6,021396	5,694869	5,779445
	0,2913222	5,38929	5,554683	5,472698	6,217984
	0,382014	5,472039	5,614581	5,748769	5,808528
	-0,0002502	5,532372	5,893673	5,604766	6,180097
	0,1524903	5,620032	6,06614	5,346822	5,914121
	0,2136142	5,858429	5,825536	5,732563	6,085932
X	0,9928784	5,712389	5,491096	5,612063	5,565694

	0,2884756	5,152564	5,824861	4,443654	6,090928
	-0,1555371	5,532652	5,74445	5,67033	5,939494
	-0,432742	5,508557	5,967042	5,433434	5,726817
	0,4063885	5,156458	5,832317	5,422606	5,821179
	-0,1829798	5,769156	5,659517	5,35637	5,522457
	-0,3131559	5,973174	6,515172	4,855065	6,230628
	0,0073896	5,688349	4,999505	5,476672	5,509485
	-0,0037793	5,479733	5,968338	5,110152	5,811682
	0,2224347	5,434234	6,049024	4,786347	5,966043
	0,0819028	5,520798	6,185429	5,008387	5,774626
	0,2324528	5,26949	5,525421	5,150081	5,907331
	-0,2605434	5,134049	5,481328	5,280465	5,967061
	-0,1131025	4,961596	5,269606	5,094226	5,664586
	0,3261305	5,159868	5,460296	5,373206	5,589458
	-0,002927	5,505801	6,031085	4,738638	5,787269
	0,0494152	5,442009	6,073095	5,019656	5,709126
	-0,0885802	5,403567	6,026942	4,554332	5,794941
	0,1266744	4,955057	5,237946	5,441868	5,2305
	0,2770573	5,310736	5,219532	5,282214	5,460943
	0,0970141	5,251102	6,055531	5,417687	5,385749
	-0,323842	5,259809	5,996696	4,49621	5,692856
	0,14277	5,412444	5,876137	4,517974	5,83055
	0,1773251	5,193403	5,212933	5,165512	5,206853
	0,0391055	5,103085	5,555227	5,242765	5,188647
	-0,0009514	4,907701	6,146779	4,577089	5,525187
	-0,2672679	5,235503	5,755707	5,633479	4,739454
	-0,0934689	4,995547	5,220971	5,025552	5,390688
	-0,05985	5,271633	5,04945	5,338417	5,681919
	0,5716515	4,78187	5,420863	4,742937	5,542825
	-0,3467175	5,295237	5,045323	4,973484	5,222743
	0,2078766	5,041551	4,85915	4,984257	5,333226
	0,4207801	4,96499	5,274135	4,971044	4,74445
	-0,0681058	4,94538	4,914269	4,886265	5,863483
	0,1775407	4,944048	5,675852	4,283799	5,568589
	-0,0737846	4,960561	5,708786	4,403292	5,617786
	0,2656366	4,962814	5,0172	4,891839	5,402451
	0,870842	5,143483	5,667948	4,483402	5,412376
	0,321655	5,159266	5,620334	3,965719	5,484143
	-0,3679311	5,108565	5,161278	4,954874	5,428831
	0,0890291	5,044187	5,094646	4,943044	5,240025
	0,3884185	5,029708	5,537139	4,241596	5,326459
	-0,2785358	5,030438	4,926481	5,118463	5,493124
	0,3699966	4,841635	4,980276	5,054957	5,1329
	0,113422	5,13088	6,117139	4,489382	5,5302
	0,2844223	4,988488	5,152686	4,766324	5,511389
	0,2434725	4,867267	5,531185	4,199563	5,370124
	0,3692507	4,424751	4,646737	5,424375	4,742198
X	-1,1450416	4,935688	5,759434	4,296336	5,10185
	0,8507458	4,851912	4,917227	4,823905	5,456138
	-0,8638649	4,515688	6,113208	4,253677	5,005052

	0,3625605	4,748273	4,868033	4,682939	5,074085
	-0,2008345	4,729019	5,12691	4,659327	5,85026
	-0,0660519	4,840677	5,743894	4,218404	5,151646
X	2,6282834	4,65215	4,785856	4,852852	5,163609
	-0,485095	4,957478	5,026002	4,802473	5,152625
	0,5449448	4,74127	4,825517	4,649569	5,110455
	-0,4675022	4,595948	4,822789	4,569221	5,107854
	0,3116466	4,991563	5,682506	3,435685	5,430269
	0,6739076	5,238823	6,265973	4,045401	5,408664
	0,3599196	5,054536	5,207176	4,487887	4,229963
	0,2707856	4,578215	4,772197	4,665055	5,319959
	-0,019682	4,601419	5,723094	3,925333	5,247654
	0,2254725	4,564038	4,742426	4,976987	4,86062
	0,9291758	4,805038	5,572197	3,570274	5,263494
	0,1017869	4,506721	5,084433	4,645226	5,019905
	-0,5696213	4,840012	5,247286	3,838364	4,709279
	0,4820656	4,661112	4,53895	4,625024	5,211628
	0,16955	4,776614	4,962895	4,601528	4,997303
	0,0797732	4,897088	5,608366	3,564358	5,257607
	0,2252712	4,606961	4,748971	4,738321	5,32385
	-0,1937694	4,685984	4,701758	4,583346	5,149404
	0,9045876	4,187915	4,090893	5,065057	5,238197
	-0,1581517	4,705975	5,287197	4,358106	5,255369
	1,0411223	4,73901	5,500031	3	5,353416
	-0,409902	4,741663	5,489227	3,706334	5,257535
	-0,2078964	4,780461	5,070703	3,916628	5,050844
	0,1779711	4,798609	5,53395	4,150664	5,024937
	0,4090361	4,762236	5,202543	3,935255	5,095623
	0,2700599	4,632427	5,128529	3,951595	5,3915
	0,6971284	4,463729	5,268742	3,852913	5,394382
	0,4158618	4,685804	4,851876	4,076713	5,127688
	-0,1871579	4,701784	4,415958	4,619051	4,611543
	0,1649893	4,647774	4,617294	4,481815	4,831268
	-0,5789	4,499522	5,161967	4,534559	4,990223
	0,0425169	4,812653	4,903844	4,47673	5,087214
	-0,0149341	4,749443	5,536217	3,798492	5,061
	0,2552829	4,656979	4,705504	4,658431	4,796519
	-0,2163102	4,337839	4,716496	4,731597	5,080302
	-0,1052242	4,03515	5,081779	4,975119	5,664162
	0,0422403	4,553203	4,450218	4,618613	4,823383
	-0,8486884	4,650784	4,914729	4,69071	4,034869
	-0,285134	4,858321	5,57888	3,159597	4,877584
	0,4233016	4,83395	5,343113	3	5,068928
	-0,2730004	4,613377	5,745933	3	5,307261
	-0,2212773	4,390264	4,533543	4,663173	4,753613
	-0,0527477	4,471585	3,518935	4,810871	5,264747
	-0,1782838	4,249321	4,745364	4,423262	5,168203
	-0,3363462	4,212001	4,553252	4,534102	4,795526
	0,4952386	4,869631	5,254427	3	5,016699
	-0,1451629	4,751618	5,570333	3,206988	4,933599

	0,2030067	4,378289	5,372175	3,805773	5,118265
	0,2058288	4,341257	4,137037	4,253798	5,260787
	1,0981891	4,73928	4,421456	4,543124	5,010893
X	-1,2460108	4,203278	4,801966	3,751264	4,601962
	0,2728322	4,364851	4,811374	4,287399	4,993017
	0,0834062	4,537907	5,416956	3,556194	5,019324
	-0,2150094	4,457927	5,013385	3,359	4,887943
	0,1749503	4,459181	3,683326	4,35226	4,874876
	0,3707418	4,512338	5,143951	3,832643	4,995174
	-0,0328935	4,571499	5,244351	3,773289	5,06213
X	1,2615555	4,33682	4,250713	4,29199	4,651491
X	1,2454287	4,281942	4,587532	4,340742	4,383169
	-0,0484577	4,30548	3,581039	4,374895	5,037506
	0,2151121	4,549751	5,053309	3	4,832975
	0,204233	4,154789	4,522679	4,127558	4,997325
	-0,2796713	4,020154	4,574714	4,005952	5,171229
	0,6088376	4,334695	4,974783	3,468657	4,725953
	0,6957842	4,572209	5,37055	3	4,926466
	0,807375	4,378888	5,195402	3,63364	4,75801
	0,2397405	4,353243	4,798395	3,291369	4,441836
	0,4224501	3,887612	4,580742	3,709092	5,039057
	-0,2745255	4,490225	4,369494	4,532423	5,124015
	0,0373325	4,089941	4,772351	3,442636	4,82076
	0,4627196	4,155184	4,681314	4,192957	3,990756
	0,4315494	3,9873	3,805637	4,543161	4,330718
	0,0320134	3,978988	5,358221	3	4,67442
	-0,2278873	4,200276	4,281079	4,350558	4,375974
	0,9619537	4,946717	3	3	3
	-0,0024801	3,698822	4,880402	4,04914	4,422885
	0,6361232	4,161098	4,398409	4,187464	4,388847
	0,8115279	4,411956	5,249907	3	4,597355
	-0,1927392	4,195014	4,886942	3,017534	4,731234
	-0,2529623	4,070518	4,477382	4,248782	4,768002
	0,2490098	4,265101	3,817869	4,051307	4,767542
	0,8113603	4,561936	3,615982	4,575465	4,683785
	-1,2074036	4,274897	5,150296	3	4,616265
	0,6890307	4,370402	4,994814	3,581972	4,664933
	0,4874661	4,470366	5,188675	3	5,029789
X	1,078167	4,308201	4,508853	4,396304	4,537315
X	1,1821327	3,842116	4,327298	4,206178	4,562721
	0,932613	4,241596	5,033303	3	4,864938
	0,2312232	4,412427	4,21096	4,112906	4,258829
	0,2613853	4,143171	4,563825	3,836811	4,716087
	0,9390723	4,436004	5,098298	3	4,719862
	0,7480948	4,048558	4,791838	3,757745	4,749953
	-0,2128755	4,274065	4,724145	4,471438	4,732434
	-0,2564405	3,887482	3,919057	3,626135	4,898017
	-0,2364668	3,741112	4,719687	3,937342	5,028409
	0,7492676	3,767979	3	4,352163	4,71265
	0,5325623	4,54532	5,226187	3	4,400693

X	1,301638	4,29695	4,562578	3	4,312474
	0,4558758	4,214314	4,792153	3	4,574622
	0,9024806	4,260572	4,818292	3	4,633529
	0,0754296	4,149404	4,843862	3,074158	4,754952
	-0,0465664	4,130559	4,251419	3,951362	4,499508
	-0,2406813	4,333105	4,505231	3	4,474449
X	1,3254722	4,021727	4,566626	3	4,522431
	-0,2144792	3,950282	4,242914	4,031368	4,098263
	0,7292721	3,993052	4,734223	3,537492	4,37164
	-0,7432073	3,622701	4,612858	4,156367	4,27699
	0,9071687	4,461934	3,606188	3,5867	4,632589
	0,2455882	4,008132	4,53671	2,928836	4,541117
	-0,0722713	3,876974	4,905569	3	4,605036
	-0,6167525	4,310884	4,90834	3	4,160738
	-0,0174847	4,129142	4,318397	3,958129	4,419427
	-0,9121638	4,166637	4,385731	4,091632	4,216615
	0,8507657	3,774794	4,764946	2,634961	4,271168
	0,8472582	3,787028	4,743855	3	4,555409
	0,9138999	3,501757	3,245932	4,185429	3,931041
	0,4260287	4,118926	4,463191	3,264912	4,445402
	0,4146676	4,037626	4,878706	3	4,541067
	0,4546547	4,04883	3,816414	3,867579	3,946668
	1,0062395	3,661898	5,05327	3	4,558877
X	1,3578581	4,076276	4,334956	3	4,60375
	1,155508	4,167642	4,896112	3,061415	4,446816
	-0,2523798	3,478206	4,881921	3	4,317813
	0,9093758	3,555892	4,727801	3	4,63761
	-0,8100005	4,382683	4,908748	3	4,603447
	0,2742665	4,054498	4,251054	3,177277	4,241521
	0,7258304	3,679864	4,523408	3	4,079796
X	1,5157065	3,638849	3,863138	3,995284	4,004579
	0,0868847	4,114944	4,905909	3,16888	4,382485
	-0,1660092	3	4,366255	4,023705	4,594404
	-0,2166608	4,191115	4,538058	3,810589	4,843588
	0,5427401	3,991297	4,470013	3	4,351642
	-0,380244	4,084826	4,335298	3,37916	4,450188
X	1,5207335	3,740221	3,957085	3,752724	4,053808
	-0,2197501	3,983752	3,735136	4,052348	4,243906
	0,6764425	3,889884	4,748754	3	4,725838
	0,4143421	3,8646	3,873954	3,64836	3,770078
	-0,2106905	3,659774	4,80744	3	4,60219
	-0,8543621	3,777122	4,773954	3,842216	4,291569
	0,5741058	3,967033	4,475874	3,531275	4,115045
	0,1775226	3,920181	4,823969	3	4,730524
	0,2926676	3,639158	4,638739	3	4,448366
	0,6612008	3,65021	3,917658	3,796193	4,196673
	-0,2163817	3	3,761409	3,996731	4,890181
	0,7669169	3,789404	4,616413	2,948975	3,97418
	-0,2745094	3,526766	4,922409	3	3,978651
	0,2172745	3,571767	3,957042	3,617818	4,430188

	0,2407733	3,865862	4,632001	3	4,255345
	0,1368428	3,917259	4,665243	3	4,438353
	0,6147458	3,724759	3,766272	3,491152	4,11284
	0,4427732	3,769931	4,312304	3,086609	4,452798
	-0,1620469	3,619542	3,943831	3	4,667705
	0,4286017	3,957066	4,478783	3,678928	3,244524
X	1,2094764	4,381584	4,221988	3	4,410507
	-0,0894846	3,543993	4,815146	3	4,195346
	0,7679962	4,344785	3,716713	3,459061	4,310502
	0,1039885	3,817056	3,241322	4,104828	3,711166
	0,3021992	4,364213	3,521596	3,825692	4,167495
	0,9417884	4,053846	3	3,802041	3,949668
	-0,7031637	3	5,070776	3	4,005567
	1,1639213	3,795769	3,436878	4,037785	4,11059
	0,4029737	4,008217	4,843837	3	3,762093
	-0,278821	3	4,676566	3	4,622815
	0,1435483	3,701698	4,330353	3	4,452783
	0,4127586	3,683101	3,957574	3,784467	3
X	1,4597691	3,60374	3,84672	3,70206	3,838307
	0,3737432	4,048092	4,490408	3	4,108091
	0,2555862	4,183469	4,229938	3	4,56103
	0,5159316	3,036988	4,419956	2,722955	4,083072
	0,267727	3,857284	4,71163	3	4,109612
	-0,1967131	3	4,320894	3,71617	4,697063
	0,190055	3,583391	4,481242	3	4,013848
	0,6246606	3,691144	4,040206	2,984253	3,989192
	0,7987293	3,830672	4,427616	2,820924	4,356714
	0,0443223	3,487153	4,654273	3,43908	3,386481
	-0,1942286	4,137069	3	3	4,298613
	0,6181957	2,86108	4,51029	3	4,032135
X	-2,4111743	3	4,557543	3,291546	4,034829
X	1,2800222	3,60231	3,700115	3,465011	3,652372
	0,1230762	3,709728	4,730314	3	3,90445
	0,177421	3,369884	4,438922	3,041827	4,096006
	0,3107191	3	3,923348	3	5,495364
	0,1965727	3,69743	4,245636	3	3,592088
	0,561049	3,247114	3,406131	3,839842	3,730209
	0,1880871	3,954049	4,120475	3,74735	3,352858
	0,6585075	3	3	3	4,6914
	0,5048412	3,245414	4,375279	3	3,903519
	1,0183917	3,592932	3,228195	3,562043	3,431557
	-0,1889755	3,791445	4,538134	3,384551	3
	0,1916122	3,51904	4,018909	3	3,75047
	0,1565039	3,517156	3,833128	3,612816	3
	-0,6702379	3,599042	4,354493	2,42359	4,248243
	0,0469658	3,863763	4,247163	3,866848	3,289968
	-0,1667985	3,511442	3,929516	3	3
	-0,1648818	3	3,534445	3	4,051654
	-0,1279014	3,479302	4,240549	3	4,306832
	0,7318748	3,780324	3,909706	3	3,813441

	0,1929899	3,734776	3,612794	3,640988	2,607637
	-0,1448954	4,27591	3	4,260477	3
	0,841863	3,220186	4,66404	3	3,643956
	-0,2929025	3	4,240524	3	3,802787
	-0,3245541	3,037626	4,177074	3	4,048791
	-0,075238	3	4,425991	3,257798	4,282191
	-1,1292339	2,759962	4,559308	3	3,524032
	0,4411152	3,611043	4,780663	3	3,230628
	0,1626532	2,964425	3,569069	3	3,416291
	-0,1128915	3,810468	3,26257	3,660704	3
X	-1,3535069	3	4,645353	3	3,726002
	0,4764004	3,617566	3,880911	3,437655	2,533047
	-0,1755852	3,531939	4,193152	3	3,817585
	-0,08153	3,4814	4,046027	3	3,736357
	-0,177636	3,858405	3	3,680308	4,010003
	0,4699489	3,013722	4,503478	3	3,644813
	0,2040167	3,3371	4,350481	3	3,874928
	0,2293027	3,363518	4,252392	3	3,781023
	-0,1627622	3,392873	4,223029	3	3,942633
	-0,0197653	3,263186	4,107074	3	3,842934
	-0,1337359	3,915458	3	3	3
	-0,1626494	3	4,56303	3	3,824529
	0,2089835	3,561113	4,462323	3	3
	0,1747637	3,66545	3	3,563813	3
X	-1,3615822	3	4,302721	3	3,057476
	0,0439053	3,886412	3	3	3,923814
	0,4255517	3	3,951104	3	4,108802
	0,7891626	3,368398	3,991248	3	3,779871
	-0,1803478	3,377306	3,668004	2,952705	3,792917
	-0,3321495	3,244054	3,15664	3,175599	3,420253
	0,0705086	3,005781	4,145227	3	3,966747
	0,2022016	3	4,304296	3	3,636678
	-0,0527418	3,578043	4,060018	3	3
	-0,0333489	3,176757	4,501881	3	3,58493
	0,5699299	3,179121	3,512618	3	3,529469
	-0,1888853	3,621311	3,837683	3,137797	3
	-0,049462	3	3,468362	3	3,284205
	0,1787482	3	3,632983	3	3,616717
	-0,0934806	3	3,834542	3	3,278959
	-0,414717	3,126099	3,478292	3,197363	3
	-0,1933204	3	3,586396	3	3,630469
	0,2179236	2,912281	4,218483	3	3,415124
	0,3692571	3	3,686994	3	3,506559
	-0,2200273	3	4,076422	3	3,094436
	0,2075511	2,795247	3,356982	3	3,850389
	0,3469018	3	3,535712	3	3,530968
	-0,4532166	2,937919	2,859048	3	3,59221
	0,1866506	3	3,709473	2,897622	3
	0,0175953	3	3,459453	2,401487	3,672541
	-0,4795148	3	3,723579	3	3

	0,3802729	3,208978	3,774225	3	3,765892
	0,371549	3,00762	3,121822	2,2223	3,671321
	0,2932624	2,751549	3	2,600537	3,137196
	-0,1408562	2,730605	3,386089	3	3,785301
	0,1204364	3	3,363931	3	3,261976
	0,0068368	3	3,790735	3	2,625559
	0,168777	2,841897	3,669038	3	3
	0,5657824	2,881892	3,235831	2,628808	3,718269
	-0,9352956	3	3	3	3
	-0,059116	3	3,372986	3	3
	-0,2004966	3	3	3	3
	-0,2361293	3	3	3	3
	0,1233193	3	3,328196	3	3,034307
	0,5001532	2,976918	3,102537	2,543012	3,428524
	-0,1611893	2,496611	3,281397	3	3
	-0,1986185	3	3	3	3
	0,1570473	3	2,809317	3,106021	3
	-0,3746352	2,465888	3,556049	3	3,576226

ities of allergic mothers							
Mother A5	Mother A6	Mother A7	Mother A8	Mother A9	Mother A10	Mother N1	Mother N2
8,616139	8,048247	8,057172	7,822443	8,428054	8,821467	8,712296	8,743917
8,240299	8,061113	8,088455	7,902128	8,234365	8,405756	7,996188	8,031408
8,41172	7,96744	7,928729	7,799878	8,381061	8,306961	7,97813	7,99613
7,491208	7,22256	7,532754	7,025347	7,471966	7,334494	7,298591	7,307496
7,637269	7,107481	7,349394	7,02032	7,435637	7,709448	7,151982	7,103119
7,50795	6,939709	7,0086	6,984658	7,518132	7,582745	7,331812	7,259331
7,33694	7,09496	7,022552	6,78994	7,262356	7,260047	7,197556	7,102674
7,294863	7,087924	7,291835	6,878683	7,215373	6,96759	7,044579	6,719638
7,230449	7,495489	7,264629	5,916722	7,190332	7,191451	7,875472	7,675989
6,912541	6,840959	6,936976	6,787602	6,467904	6,830235	6,623528	6,664219
6,836102	6,468894	6,669047	6,344412	6,894892	6,971336	6,720027	6,777246
7,187577	6,502236	6,068964	5,848565	7,261311	6,580537	6,661604	6,282668
6,703291	6,102811	6,358144	6,044304	6,940322	7,320333	7,077513	7,355911
6,853723	6,230883	6,222352	6,533874	6,694544	6,955943	6,397088	6,701965
6,655484	5,819261	6,286344	6,707289	6,756697	6,976047	6,175164	6,369661
6,809546	7,214738	5,823585	5,020693	6,916396	6,944448	7,119355	6,854846
6,766613	5,932575	6,078638	5,998813	6,861044	6,465145	5,872296	6,169086
6,632548	5,875524	6,364251	6,302093	6,560886	6,853857	6,152166	6,282191
6,663277	5,847369	6,367151	5,931615	6,434505	6,572244	6,047976	6,178372
6,352414	6,220056	6,208415	6,087071	6,460688	6,649461	6,068817	5,924806
6,494975	5,829259	6,459498	5,97989	6,365001	6,640948	6,263139	6,131105
6,594834	7,038858	5,780368	5,121658	6,819169	6,375353	5,148541	6,014856
6,22295	5,776767	5,661567	6,125188	6,332337	6,614032	5,593485	6,190276
6,095762	5,635524	6,292809	5,451049	6,022635	6,509122	6,699031	6,722798
6,220814	5,821703	5,958616	5,77133	5,917222	6,04544	5,330759	5,246868
5,996757	5,712885	5,71963	5,658545	6,146283	6,46574	5,683857	5,878183
6,021603	5,612031	6,179293	5,440578	6,259713	6,236436	5,989748	5,932737
6,152777	5,635755	5,987268	5,693472	6,176207	5,852437	5,475598	5,488636
6,398183	5,748266	6,181329	5,372157	5,807068	6,135005	5,857568	5,874401
6,293363	5,436481	5,829014	5,371991	6,081383	6,213358	5,3274	5,452001
5,942336	5,193152	5,524798	5,893101	6,15186	6,334695	5,686055	5,935376
5,957004	5,891894	6,33165	5,444841	5,95866	5,757692	5,996564	6,139029
5,780123	5,684863	5,881852	5,614623	5,660875	6,351642	5,382323	5,607198
6,057628	5,692477	5,671515	5,616297	6,010724	6,08604	5,391958	5,394592
6,033705	5,91638	5,553373	5,673574	6,083216	6,293915	5,707101	5,564299
6,073608	5,24672	5,46443	5,375096	5,840815	6,399414	5,656204	5,838289
5,91211	5,430591	5,818872	5,433946	5,598364	5,998521	5,134974	5,20412
5,910021	5,563884	5,329459	5,147089	5,406421	6,424996	5,882143	6,02592
5,570204	5,788402	5,374162	4,935553	6,27985	5,986418	5,551792	5,812706
5,563077	5,720019	5,812459	5,590797	5,477613	5,523473	5,475133	5,255803
5,705214	5,360991	6,014898	5,25312	5,676968	5,740694	5,404235	4,906243
5,441884	5,644813	5,403687	5,166104	5,914772	6,031529	5,391887	5,090752
5,853857	5,202243	5,704391	5,044696	5,56819	5,582688	5,533226	5,335799
5,78062	4,828815	4,927221	5,577767	5,713037	6,254669	5,282441	5,803798
5,806858	4,977499	5,803164	4,494168	5,88742	5,547221	5,039256	5,142609
5,864968	5,610415	5,276761	5,188	5,718643	5,52307	4,979626	4,661026

6,127429	4,999322	5,308479	5,506424	5,858188	6,05679	5,33082	5,133347
5,532589	5,149681	5,428944	5,275841	5,498241	5,546641	5,243955	5,216298
5,651753	4,765586	5,087071	4,585889	6,000781	6,446086	6,043873	6,22003
5,704142	5,292544	5,203413	5,026615	5,766569	5,858291	4,767475	5,013554
5,931849	4,900416	4,957631	5,053232	5,288696	6,329723	5,350093	4,820609
5,798347	4,993652	4,160948	4,40734	6,141732	5,618111	5,599403	5,367803
5,307303	5,157336	5,353262	5,492355	5,811266	5,864458	4,898753	5,680027
5,385087	4,888202	4,690843	5,54285	5,490029	6,03523	5,312199	5,509874
5,484343	4,752325	4,991488	5,234542	5,566673	5,851992	4,739683	5,476831
5,469233	4,678336	4,778202	5,395937	5,553701	5,717371	5,10799	5,523695
5,793134	5,00762	5,093176	4,95696	5,70155	5,669038	4,968184	5,143702
5,775239	5,000564	5,185769	4,82492	5,389308	5,590975	4,948873	4,89195
5,730936	4,468687	5,594326	4,46507	6,018576	5,798934	4,907761	5,486771
5,55123	4,948692	5,072176	4,862132	5,420484	5,613239	4,678637	4,904991
5,369327	4,219506	4,945262	5,132068	5,550937	5,725127	5,046807	5,371917
5,353262	5,634135	5,047353	4,234365	5,276393	5,208011	4,990911	4,818186
5,448212	4,250932	5,055417	4,999835	5,599709	5,661529	5,360783	5,68801
5,449154	4,780706	5,025633	4,811716	5,361274	5,852218	5,129303	4,882314
5,314878	5,016532	5,15797	5,228528	4,993635	5,142389	5,166341	4,558277
5,27485	5,497206	4,627253	4,442245	4,930042	5,23391	5,218431	4,575315
5,299268	4,468185	4,72605	4,978587	5,401676	5,75457	5,02592	5,490352
5,426804	4,281806	4,484272	4,985822	5,543633	5,60708	4,527784	5,037745
5,430285	4,932616	5,045518	4,953605	5,245142	5,44548	4,711638	4,811468
5,215241	4,772248	5,018284	5,006851	4,954045	5,585427	4,873704	4,902155
5,466571	4,403327	4,678637	4,934448	5,311224	5,60361	4,733927	4,938134
5,344235	4,598627	3,848275	5,175135	5,516231	5,428378	4,785878	5,077186
5,23525	4,542016	4,948975	4,725928	5,273719	5,780144	5,053463	5,123917
5,232844	4,757184	4,941109	4,717962	4,89339	5,115843	5,036908	5,124374
5,358163	5,064757	4,713893	4,851436	5,264204	5,016992	4,713827	4,421505
5,322984	4,650822	4,728232	4,471277	5,174031	5,656405	5,009663	5,316536
4,970472	4,868333	5,081563	4,832483	5,024363	5,393137	3,746953	4,750524
4,966236	4,86441	4,986629	5,282758	5,079398	5,241422	4,998495	5,49596
5,62671	4,89555	5,505367	3	5,418881	5,208576	5,079398	3
5,32023	4,061452	4,215003	5,091527	5,401659	5,636648	4,534166	5,095831
5,154789	4,247679	4,277792	4,843519	5,300378	5,636317	4,652276	5,008472
4,996271	4,385517	5,547085	4,697203	4,730903	5,350791	4,435733	5,006894
5,144232	4,683731	4,622794	4,479345	5,053731	5,24341	4,555602	3,034468
5,132612	4,2397	4,898127	4,814887	5,187182	5,414472	4,659279	4,912275
5,461874	3,972305	4,261929	4,327543	5,475657	5,717213	5,114044	5,15567
5,083108	4,388882	4,723357	4,926836	5,167642	5,251297	4,745294	4,78366
4,897407	4,262214	4,657438	4,824041	5,634175	5,412125	4,553227	4,977097
5,313298	4,564678	4,954064	4,514282	5,022758	4,816632	4,288137	4,352453
5,211761	4,64555	4,772717	4,78756	5,011951	5,155336	4,413383	4,704151
5,016699	4,541579	4,28854	4,172982	5,015485	5,278731	4,338138	5,467652
5,325659	4,193764	4,826204	4,641186	5,03527	5,103462	4,548782	4,626258
5,01389	4,141575	4,414371	4,728459	5,206853	5,30882	4,280874	4,785607
5,693014	5,284791	4,735096	4,183241	4,464132	4,88896	4,353724	4,541392
5,543186	3	4,703962	4,117967	5,338217	5,668647	5,589346	6,151646
5,37462	4,207877	4,585043	4,435446	4,821173	4,963424	4,075583	3,787432
5,32023	3,601136	4,681368	4,196894	5,887482	4,756864	5,638249	4,720713

5,015611	4,451311	4,613133	4,278204	5,166193	5,256646	4,073719	4,39097
4,711858	4,313066	4,691868	4,519303	4,515543	4,984604	4,662163	4,294929
4,856173	4,276646	4,263896	4,591476	4,968352	5,103256	4,386588	4,594172
5,138618	4,75343	4,302049	4,259068	4,788366	5,17528	4,344667	4,114344
5,249565	4,72755	3	4,696295	4,785387	5,456609	4,831306	4,43683
4,925977	4,511429	4,801589	4,366143	4,800332	4,988866	3,551377	4,192484
5,052309	4,29365	4,584591	4,176815	5,013216	5,494989	4,760633	4,822194
4,858188	4,287869	4,533988	4,320271	5,058312	4,827033	4,211254	3,730653
4,868003	5,071661	4,057704	3	5,229349	4,216825	3	3
4,390529	4,648955	4,55145	4,973091	4,733101	5,081419	3,60968	5,036349
5,197611	4,19064	4,266373	4,181958	4,821166	5,334414	4,189967	3,673214
4,866364	3,687698	3,853595	4,632143	5,247138	5,540942	4,272422	4,725479
4,534242	4,311987	4,82669	4,234416	5,12359	5,082965	4,402829	4,535977
4,928191	4,203767	4,36048	4,487053	4,884359	5,097223	3,776236	4,086502
4,970421	4,30963	4,615108	4,266467	4,412292	5,276048	4,345942	4,293296
4,716996	4,321122	5,178603	4,060018	4,533391	5,64186	5,54123	5,672236
4,98679	4,456108	4,179006	4,255031	4,956082	5,151217	4,273233	4,030883
4,711554	4,371751	4,516667	4,242591	4,742654	4,961027	4,326643	4,219584
4,90704	3,709719	4,013722	4,733325	5,090435	5,073132	4,228041	4,670468
4,821638	4,591699	4,532958	4,209702	4,558048	4,691524	4,221701	4,373703
4,861988	4,387265	4,718659	4,649773	4,650094	4,429591	4,105476	3
5,164472	4,802274	4,271818	3,716053	5,335056	4,889206	4,548045	4,230449
4,898324	3,479532	3,811018	4,731226	4,985283	5,203305	4,444217	4,724497
4,969131	3,971721	4,022923	4,65355	5,149527	5,325577	3,689327	4,092229
4,900913	3,382053	4,265596	4,676007	4,723768	5,463161	4,841979	5,320914
4,762228	4,430639	4,443592	3,985525	4,768845	5,095657	3,935658	4,132644
4,665337	3,74097	3,621104	4,519132	4,967178	5,210666	4,358563	4,895881
4,879056	3,636378	4,030316	4,43433	5,071661	5,163072	3,835595	4,618602
4,798326	3,907116	4,15048	4,395064	4,71767	5,125124	3,931412	4,620532
5,275426	3,569116	4,121527	4,066326	4,999948	5,164502	3,770697	4,239575
4,680961	4,337719	4,079507	4,471805	4,823018	5,029262	4,146903	4,529956
4,191144	4,78471	4,776774	5,256285	4,489114	4,294885	4,651162	4,603945
4,571348	4,369791	4,514056	4,442636	4,695718	4,875264	4,145787	4,214314
4,784453	3,98738	3,960875	4,031247	4,589805	5,484741	4,844334	4,780641
4,527488	4,022717	4,390511	3,959285	4,784688	4,898922	4,353358	4,207688
4,762206	3,511937	4,03064	4,47525	4,656271	5,255971	4,26257	4,784589
4,658822	4,346588	4,221675	4,099163	4,639904	4,949468	4,222326	4,236185
4,771256	4,395361	4,194625	4,219218	4,578662	4,613884	3	3,938334
4,207015	4,543993	5,196839	4,6408	4,092335	3	3	4,721374
4,701231	3,962047	4,427713	4,131523	4,85752	4,845278	4,107142	4,173419
4,462173	4,293849	4,341355	3,893756	4,791698	5,175367	4,941303	5,097604
4,718734	3,612455	4,16563	4,629053	4,574541	5,02592	4,486033	4,877976
4,394434	4,065729	4,363179	4,448799	4,754509	4,868668	4,439696	4,118761
4,592399	3,84037	3,612869	4,294488	5,022717	4,992624	4,311987	4,606112
4,592021	3,917994	4,529546	4,444139	4,379795	4,72025	4,048286	4,235377
4,955712	3,817532	4,068111	4,7096	4,597619	4,679382	4,498559	4,348597
4,453456	4,087178	4,697535	4,120574	4,523798	4,409256	3	3,818661
4,688829	4,044383	4,136118	4,132836	4,419906	5,280282	4,529905	4,841128
4,438495	4,227347	4,542676	4,048558	4,628685	4,767661	3,630438	4,039494
4,272723	4,535674	3,682109	3,92342	5,34918	4,556218	4,315424	3,776185

4,958592	3	3,591532	4,175338	5,099543	5,27738	3	5,205096
5,088986	4,248071	4,263873	4,095901	4,312981	4,765892	4,037586	3,951211
4,934443	3,422738	4,549494	3,730976	4,262285	4,987662	3	3,577055
4,674411	3,860601	4,608141	4,114077	4,572848	5,370013	5,292633	5,53153
4,235023	4,600091	3	3,875599	4,915521	5,445558	5,106293	4,133954
4,615308	2,621332	4,157849	4,457821	4,985624	4,995912	3,779856	4,744825
4,635283	3,376705	4,487195	4,437481	4,619573	4,899902	4,409849	4,649423
4,942097	3,739319	4,241895	4,046417	4,856699	4,956941	4,090188	4,510907
4,422442	3,273811	3,471218	4,516324	4,796546	5,055875	3,779387	4,666218
4,543783	3,320271	3,775042	4,348558	4,567838	4,749474	3,898922	4,515211
4,674576	4,358886	4,159357	3,98981	4,587093	4,595595	3,874917	3,63833
4,535307	4,288093	4,177767	4,172048	4,37676	4,658727	3,071551	3,449278
4,720812	4,480309	3,94603	3,596355	4,000911	5,304943	4,443326	4,789362
4,552072	3,463654	4,136657	4,212161	4,547208	4,856602	4,023458	3,897088
4,694122	3,737137	3,692168	4,018825	4,429833	4,809385	3,98768	3,60579
5,145227	3,802548	3,394627	4,083539	4,332701	4,608836	3,750917	4,138366
3,816586	3,74351	3,772586	4,518185	4,757358	4,950379	3	4,33167
4,533709	3	3,677224	4,262712	4,677835	4,905785	3,347954	4,566967
4,316411	3,35478	3,431106	4,320105	4,452614	4,920676	3,454616	4,313424
4,373298	4,284724	4,246671	4,210319	4,483045	4,179408	3,818879	4,347954
4,432697	4,322488	4,197143	3,577469	4,335558	4,471042	4,055149	3,944616
4,432809	4,16646	3,790742	3	4,595232	4,011063	4,59913	3,901507
4,852346	3,442652	3,895085	4,005824	4,55444	4,572139	3,878321	4,310672
5,787772	3,462083	3	3	4,819471	5,025593	3	4,752041
4,568425	3,955322	3,875993	4,038183	4,478971	4,51825	3	4,212933
4,443513	3,582836	3	4,281443	4,500209	5,220657	4,301421	4,961967
4,47375	3,661661	3,782458	3,90923	4,263518	4,678919	3,764191	3,621882
5,137196	4,844918	5,031933	4,9409	3	5,022758	4,489255	3
4,357821	3,810656	3,938645	3,894305	4,218562	4,549677	3,66187	3,574564
4,327951	3,602917	4,351216	3,687948	3,817836	4,661737	4,091878	4,141889
4,240574	3,262783	2,893812	4,30818	4,67019	4,922367	3,624725	4,185769
4,280965	3,531147	3,592676	4,032901	4,519775	4,767912	4,120146	4,531185
4,28603	3,800009	4,413719	4,117702	4,096771	3	4,684522	5,116043
4,235655	3,700288	3,959256	3,77681	3,848029	4,791761	3,794892	4,085505
3,932469	3,706308	3	3	5,191618	4,92902	3,698857	4,279872
4,264723	3	3,942722	3,740442	4,326971	4,840865	4,537139	4,31618
4,315193	3,413383	2,855792	3,912727	4,360423	4,611479	3	3,888646
4,428394	3	3,07675	3,641057	4,623125	4,541779	3,201233	4,01157
4,347311	4,078421	3,571138	2,563446	4,024363	4,636036	3,372802	4,090293
4,563623	3,506343	3,878436	3,313593	4,340305	4,413451	3	3
4,306468	3	3,443263	4,03623	4,416674	4,383007	3,715285	4,402829
4,283957	3,388368	3	3,833453	4,665253	4,496861	3,874998	3,928729
4,41071	3,831159	3	3,180327	4,283957	4,675164	3	3,821978
3,999448	3,932184	4,040919	3	4,326295	4,058464	3	3
4,168321	3	3,096528	4,036948	4,121953	4,817096	3,669986	4,031812
4,194126	4,093982	4,058236	3	4,00346	3	4,17612	3
4,019988	3,717046	4,508139	3,659992	4,117404	4,180699	3,664952	3,993551
4,541829	3,546765	3	3	4,268414	4,701749	3	3,981982
4,318668	3,430462	4,762363	3	4,395186	4,640163	3	3,714682
4,213651	4,816699	3	3	4,711242	3,43244	3	3

4,31555	3,114411	3,890443	3,795435	4,475526	4,541692	2,838603	3,554792
4,258565	3	3	4,175918	4,504797	4,782222	3	3,949858
4,209649	3	3	4,294577	4,269046	4,692142	3	3,792651
4,294753	3	3	3,677799	4,344903	4,722749	3	4,402055
4,289366	3	3,359	3,618383	4,426934	4,286546	3	3,256453
3,904505	3,744879	3,933902	3,718111	4,062845	4,107888	3	3
4,370698	3,471394	3,603231	3,560696	4,137386	4,48084	3	3
4,033263	3,345178	3,791578	3,751502	3,968586	4,350694	3,663324	3,929445
3,904559	3	3	4,103769	4,145725	4,65485	3,015904	3,867756
3,115943	3,544192	4,166933	3,779589	3,961003	4,163757	4,757236	4,510759
4,784432	3,51904	3,092896	3,443685	4,104487	4,082965	3,10044	3,358297
4,338337	3	3,482788	3,798506	4,231623	4,422623	3	3,760181
4,260024	3	3	3,823363	4,125514	4,689433	3	4,11551
4,078928	3,341098	3,738178	3,677735	3,468273	4,587576	4,350926	4,508193
4,327706	3,677315	3,227372	2,653849	3,799361	4,717437	3,814514	3,662909
4,086075	3,671293	3,137006	2,774554	3,741742	4,924796	3,721778	3,511215
4,281079	4,077259	3,748064	3	4,52264	4,06722	3	4,087249
4,225955	3	3	4,019407	4,536192	4,239425	3	3,800751
3,953054	3,879526	4,078674	3,777572	4,174031	4,366946	2,983414	3,56265
4,052155	3	3	3,77747	4,409256	4,542639	2,943658	4,219008
3,775742	3	3	3,975174	3,927175	4,646639	3	4,09937
4,232411	3,49181	3,839365	3,666321	3,911919	3,956519	3	3,480539
4,029343	3,443466	3	3,405807	4,53278	4,087391	3	3,648048
4,057438	3,262854	3,537643	3,59809	3,845079	4,420616	3	3,330028
4,123623	3,208952	2,534813	3,789665	4,10476	4,275542	3	3,160528
4,305158	3	3,697508	4,072911	3	4,833007	4,219008	4,783232
4,46452	3,177017	3	3,192456	4,376011	4,454266	3	3,873815
4,035029	3,465279	3	3	3,903681	4,261311	3	3,970207
3,907218	3,671043	3,42498	3,823487	4,054345	3,933138	3,066996	3,801829
3,994256	3	3,227912	3,834294	4,424685	4,753744	3	3,520064
4,158905	3,982466	3	3,273372	3,825355	4,685034	3,440153	2,869355
3,210987	2,759857	3,357649	3,947889	3,970031	4,581927	3,459166	3,813254
5,125611	3	3	3	3,55594	4,619198	4,053348	3,859667
3	3	3	4,570543	4,283256	3	3	3
3,938029	3	3,070629	3,918429	4,404936	4,047664	3	3,723357
3	3	3,288339	3,748149	4,140634	4,717829	3	3,956341
4,075802	3,378089	3,385106	3,410203	3,923306	4,332903	3,174874	3,234568
4,013175	3,582609	3,879704	3,474944	3,940626	3	3,744926	3,659098
3,320105	3	3	4,048869	3,952177	4,215823	3	3
4,031368	3,205935	3,467179	3,536091	4,211628	4,28594	3	3,802397
3,891052	2,829593	3	3,73977	4,145631	4,145973	3	4,127137
3	3,296336	3,80093	3	3	4,934716	3,974691	4,698683
3,740094	3	3,773252	3,444669	3,425355	4,112772	3,33672	2,682073
3	3,476063	3,399899	3	3,657276	4,576779	3	3
3,994009	3	3	3,435096	3,956269	4,420055	2,937428	3,377379
4,239975	2,961601	2,976368	3,227758	4,067108	4,450141	3,258326	3,286097
4,418367	3	3,958392	3	3	4,381765	3	3
4,034989	3	3	3,66833	4,014647	4,347818	3	3,445308
3	3	3	3,8997	4,447964	4,608612	3	4,90969
4,225542	3	3	3,110556	4,116109	4,345785	3	3,773787

3,647089	3	3	3,753399	3,882114	4,284814	3	3,702008
3,715201	3	3	3,673168	3,590998	4,226471	2,784339	3,698657
4,037426	3,234087	3,290836	3,616853	3,892111	4,018617	3,287174	3,149988
3,887797	3	3	3,787836	3,592621	4,291968	3,704777	3
4,151186	3,632407	3,71147	3,419906	3,994928	3	3	3
3	4,268157	3,453288	3,838194	3,573661	3,587464	4,345158	4,225774
3,839648	2,917232	3	3,137797	4,151462	3,949356	3	3
3,961255	3	3	2,937738	4,001388	4,306854	3	3,95207
3,491894	3,77826	4,09854	3,391852	3	3	3	3
3,605176	3,610905	3,42377	3,441365	3,506126	4,099784	3,477483	3,283346
3	3,953508	3,441789	3	3	4,284115	3	3
3,84393	3,778368	3,924879	3	4,190556	3	3	4,207984
3	3	3	3,647373	4,22282	4,5066	3	4,092089
4,047742	3,294863	3,226445	2,61699	3,349957	4,510625	3	2,37936
3,34183	3	3	3,444513	4,005223	4,012204	3	3,51883
3,873867	3	3	3	3,864843	4,36903	3,074999	4,259092
3	3	2,715836	3,50534	4,265738	4,430752	3	4,281374
3,891677	3,571546	3,582347	3,424865	3,523876	3,955688	3,342719	3
4,046495	3,279849	3,03575	3,243187	3,690772	4,080374	3	2,81288
3,33969	3	2,952763	3,727688	3,406642	4,287174	3,345942	4,027839
3	3,437846	3,348597	3,179609	3	4,30285	3,097362	3
3,786397	3	3,162534	3,819458	3,799051	4,274019	3	3,516773
3,291413	3	3	3,642751	3,757912	3,702896	3	3,853838
3	3	3	3	4,248586	4,057628	3	3
3,634296	3	2,812673	3,474726	3,661178	4,354972	2,870304	3,978025
3,821461	3	3,400452	3,324673	3,93047	3,816414	3	3,383474
3	3	3	3,41951	3,761364	4,378143	3	3,568894
3	3,584003	3	3,160408	4,121166	4,085433	3	3,804289
4,149065	3	4,386695	3	3,926296	3	3	3
3,985691	3	3	3,112873	3,857598	4,380139	3	3
3	3	3,133443	3	3,948349	4,750778	5,126066	5,257367
3,76168	3,280578	3,199014	3,384819	3,523122	3,772688	3,182557	3,026288
3	3	3	3,760309	3	4,090998	3,530417	4,476629
3,790151	3	2,884399	3,351796	3,321495	3,865098	3	3,444966
3,349977	3	3	2,754654	3	4,583595	3	3,400573
3	3	3,014814	3,503041	3,953465	4,086075	3	3,312579
4,151768	3	2,809162	3	3,861606	4,022387	3	3
3	3	3,779481	3,10185	3,131875	3,796498	3,360972	3
4,781332	3	3	3	3,452706	3,985907	3	3
3,867137	3	3	3,127072	3	4,348986	3	3
3,894111	3	3	3,16337	4,11985	3,862906	2,882428	2,991301
3	3	3	3,62328	3	4,413317	3	3,89166
3,556339	3,394592	2,808164	3,755402	3,792048	3,11674	3,243683	3,387977
3	3,501798	3,475787	3,501976	3,200878	4,042536	3,156489	3,467564
3,631048	3	2,321122	3,200166	3,579601	4,256164	3,525097	3,948119
2,786304	3,816082	3	3	3	3,54727	3,809425	2,268367
4,060622	3	3	3	3,74223	4,138271	3,621228	4,1634
3,706274	3,111128	3,474391	3	3,750362	3,599708	3	3
3,635484	3	3	3	3,436449	3	3	3,775195
3,677662	3,192763	2,754791	3	3	3,947306	3,220736	3

2,838043	3	2,518185	2,58967	3	3	3	3,357535
3,523486	2,774393	3,04289	2,782458	2,878183	3,483858	2,787078	3
3,18364	3	3	3	3,348149	3,455986	3	3
3	3	3	2,56632	3	3	3	2,733711
2,702094	3	3	3	2,980603	3	3	3
2,572918	3	3	3	3	3,294642	3	2,950097
3	3	3	2,599665	3	3,169792	3	3
3,30897	2,347447	2,667219	3	2,914967	3,530737	3	2,24445
3	3	2,990956	3	3	3,062657	2,870416	3,088101
3,046378	2,639865	3	3	2,958406	3	3	3
3	3	3	3	3	3	4,077731	3,872582
3	3	3	3	3	3	3	3
3	3	3	2,451218	2,723332	3,18831	3	3
2,894133	2,43345	3,066996	2,784646	3	3,420566	3	3
3	2,730031	2,740252	2,993211	3	3,296534	3,505381	3
3	3	3	3	3	2,314626	3	3
3	2,238372	3,076968	3	2,893873	3	2,891314	3
2,431878	2,435781	3	2,299028	2,650142	3,076313	3	3

IBAQ intensities of non-allergic mothers

Mother N3	Mother N4	Mother N5	Mother N6	Mother N7	Mother N8	Mother N9	Mother N10
9,060093	9,019241	8,64066	9,011401	8,860829	8,676044	8,911903	9,088136
8,347642	8,421144	7,997373	8,359911	8,24346	7,939769	8,138176	8,235528
8,296029	8,33746	8,125091	8,353744	8,143077	7,629889	8,219112	8,246326
7,45171	7,442809	7,740536	7,680997	7,651482	7,096771	7,563172	7,508422
7,593784	7,513058	7,579303	7,656223	7,455682	7,06614	7,541454	7,431444
7,592643	7,624251	7,334132	7,57779	7,261144	7,055531	7,370087	7,304275
7,324982	7,242864	7,700626	7,684064	7,45632	6,902324	7,489002	7,350636
7,331913	7,103427	7,525783	7,581472	7,340226	6,406813	7,421209	7,166223
8,412763	7,80315	8,054498	7,975091	7,47391	7,189631	7,902802	7,726491
6,487153	6,480495	6,98513	7,114544	7,05873	6,440909	6,79115	6,790116
7,267125	7,00518	6,986906	7,134751	7,047547	6,427746	7,057286	7,138145
6,732619	6,618947	6,548611	6,815784	6,621197	4,872844	7,022098	6,032659
7,669149	7,599752	7,138839	7,738986	7,480682	7,043441	7,13149	7,22678
6,821926	6,744708	6,820832	6,874186	6,647217	6,47069	6,75713	6,704665
6,722083	6,984235	5,686824	6,690816	6,859426	5,740094	6,241297	6,687431
7,766799	6,883956	8,0029	7,112672	7,084612	6,401642	7,22144	7,505923
6,921374	6,266749	6,975602	7,12691	6,712818	5,827802	7,200221	6,63364
6,789687	6,803989	6,254838	6,71016	6,820898	6,270912	6,706701	6,72394
6,780663	6,728264	7,246819	7,217905	6,026533	5,835323	7,316054	6,632001
6,491474	6,283844	5,951891	6,436417	6,286816	5,992332	5,911994	6,2923
6,369995	6,656769	5,843868	6,690674	6,567097	5,729537	6,39976	6,506586
6,802226	6,45826	7,271958	6,516667	6,081275	6,005266	7,089764	6,568683
6,38819	6,687984	5,662097	6,456047	6,108903	5,753782	6,037825	6,254621
6,96316	6,755181	7,488368	7,302071	7,020485	6,570192	7,105101	6,965338
5,711107	5,424506	5,984743	5,908624	5,939968	4,53939	5,770462	5,503818
6,145041	6,354166	5,859259	6,263683	5,992845	6,056333	6,095623	6,124732
6,244302	6,351796	5,920827	6,293252	6,226368	5,454235	6,226625	6,355106
5,639984	5,782351	6,1529	6,377761	5,909283	5,50892	6,159958	5,975524
5,961829	5,843955	6,409646	6,543472	6,498297	5,298264	6,357592	6,023746
6,010003	5,763413	5,974553	6,473881	5,945626	5,494127	6,153419	5,653029
6,408359	6,632781	5,07813	6,250859	6,579086	5,450772	5,777137	6,066401
6,047936	5,818971	6,224585	6,417439	6,147707	5,483687	6,508287	5,829439
5,917059	6,080915	5,535964	6,360839	5,633852	5,061867	5,940531	5,908281
5,93519	5,898999	5,670932	5,879566	5,834758	5,396496	5,714019	5,764131
6,244772	6,282645	6,190556	6,096806	6,125969	5,763233	5,82978	6,204636
6,236411	6,297498	6,254258	6,439538	6,254258	5,917153	6,14588	6,135832
5,518172	5,357478	5,871625	6,112538	5,911248	4,608686	5,698092	5,492327
6,390405	6,844098	6,406097	6,537479	5,706624	5,5148	6,02506	6,392521
6,380898	5,844583	6,410659	6,402897	6,02914	5,696706	6,517763	6,233985
5,541941	5,478436	5,897869	6,015527	5,743573	5,12814	5,6821	5,601071
5,646031	5,68627	5,948843	5,982353	6,1712	4,769569	5,628092	4,906426
5,653627	5,621944	5,32455	5,600439	5,076422	4,784767	5,489818	5,300769
5,605994	5,591566	5,97792	6,173769	6,195512	4,906055	5,927925	5,47094
6,015402	6,446475	4,545357	5,833478	6,150695	4,802965	5,105272	5,437719
6,213969	5,498917	5,943554	6,101197	4,948799	4,67488	6,543111	5,791718
5,161488	5,121724	4,738003	5,16776	5,015234	4,654658	4,998826	4,959904

5,72957	5,520221	5,30865	5,767824	5,230398	5,487195	5,05327	5,482645
5,63745	5,641999	6,300921	6,066922	5,954951	5,048985	5,966588	5,644577
6,892134	6,839006	5,736396	6,781878	6,596135	6,13786	5,879583	6,281579
5,410558	5,185825	4,575165	5,242939	4,948887	4,439001	5,031044	4,731137
5,965404	6,122216	5,540692	5,989877	5,981737	5,518553	5,545851	5,818681
5,947145	5,499536	6,027757	5,752655	6,080518	5,176641	6,279941	5,994097
5,642712	5,652159	5,811682	5,697526	5,661794	5,12133	5,243757	5,566744
5,915104	6,40288	4,656376	5,784317	6,184663	4,982931	5,146345	5,463505
5,664388	6,071956	4,36186	5,63752	5,98034	4,586542	5,110085	5,564856
5,788041	6,157699	4,564026	5,738289	5,87314	4,676968	5,040206	5,409511
5,469144	5,403909	5,020113	5,592476	5,345589	4,43775	5,201452	5,214632
5,096319	4,8963	5,118463	5,343468	5,396966	3	5,252416	4,260214
6,178545	5,555058	5,936222	6,05797	5,381747	5,293363	5,950126	4,884104
5,054957	5,269746	5,012204	5,54408	5,093142	4,822201	5,075474	5,242616
5,744504	6,048946	4,294951	5,741797	6,036429	4,821913	5,236764	5,533632
5,805725	5,335759	5,747225	5,509458	5,325782	4,2294	5,990099	5,288093
6,026083	6,200823	5,120771	6,009578	5,836931	5,07976	5,59674	5,824841
5,689371	4,717695	5,065878	5,364945	5,154606	4,95896	5,30003	5,259116
5,273834	5,126943	5,868968	5,668777	5,509794	4,671006	5,586092	5,12691
5,250859	5,114844	5,947924	5,699508	4,91803	4,721101	5,729302	5,38532
5,81646	6,133571	4,737423	5,854142	5,921328	4,772879	5,173157	5,563623
5,469822	5,791929	4,007406	5,201179	5,754272	4,237217	4,839597	4,897885
5,362256	5,220788	4,83616	5,340186	5,153815	4,619104	5,098609	5,177796
5,339749	5,27614	4,826735	5,456351	5,474012	4,734544	5,024445	5,172574
5,597223	6,010724	4,127882	5,551181	5,787942	4,238673	4,702878	5,402072
5,435844	5,316599	4,594182	5,259188	5,722872	3,715535	5,470028	5,224041
5,642415	5,752233	4,970277	5,830428	5,699135	4,645943	5,023787	5,725413
5,382017	5,467549	6,060282	5,767505	5,703919	4,422081	5,611607	5,685598
5,050651	5,216667	4,907218	5,257702	4,069853	2,905272	4,889901	5,293473
6,002382	5,523512	5,77194	5,705487	5,634457	5,089481	5,808812	5,801411
4,937503	5,2464	5,10551	5,385463	4,643887	4,188141	4,897666	4,693551
4,4842	5,01515	5,058274	5,282599	5,288763	5,101162	4,911775	5,607605
5,519775	5,439964	5,68719	5,69063	5,569666	3,941531	5,333346	3
5,357611	5,76107	3,733157	5,397279	5,70803	4,632832	4,425795	4,901251
5,563718	5,791389	4,379305	5,439917	5,872459	4,391306	4,794913	5,186759
4,769267	4,663107	5,136118	5,312431	5,441192	4,073425	5,04852	5,012162
4,929224	4,582586	4,540617	4,999418	4,836255	3,589022	4,716204	4,864547
5,125904	5,397244	3,246671	5,301464	5,343704	4,021603	4,907927	5,04945
5,767178	5,785123	5,620812	6,009451	5,538699	5,310098	5,642276	5,299943
5,302807	5,126878	5,05007	5,115278	4,778788	4,944788	4,973986	4,915716
5,419923	5,682181	3,432841	5,275818	5,671025	4,434808	4,333971	4,918759
4,892835	4,83402	5,283595	5,574807	5,11059	4,211334	5,28621	4,897281
4,605833	4,976033	4,868962	4,876328	4,594812	4,44356	4,659783	4,694043
5,053616	6,27212	4,197832	5,697822	4,771815	3,882883	4,844067	5,049218
4,95823	4,865122	5,270842	5,315698	4,902074	4,560803	5,111094	5,041077
5,091174	5,239049	3,693885	4,835354	5,443169	4,037785	4,275012	4,71982
4,798879	4,970909	5,228195	5,12215	4,49621	3,384031	4,341019	4,717096
6,48061	6,381855	5,155063	6,10006	6,495322	5,402639	5,782816	5,594934
4,542116	4,711351	4,526727	4,94938	5,072728	3	4,932961	4,692565
5,92151	5,952201	6,074524	6,172778	6,338217	5,431974	6,318126	5,87535

4,65382	4,948912	4,622183	4,991518	4,409037	3,66133	4,804575	4,63267
4,661434	4,616455	5,270725	5,444404	5,086965	3,96306	4,91393	4,501716
4,969239	5,389379	4,318939	4,975891	5,325002	3,596619	4,79407	4,785665
4,954489	4,685168	4,853674	5,017868	4,632032	4,126683	4,787885	4,518475
4,845588	5,043873	5,546913	5,448737	4,894742	4,82826	5,296928	5,122118
4,810038	4,825835	4,585348	4,781641	4,767416	3,981551	4,607476	4,692882
5,511308	5,350015	4,515768	5,270586	5,031893	4,419278	5,046573	5,023746
4,808711	5,166075	4,468362	4,893235	4,740236	3,69797	4,802192	4,667696
5,529251	3	5,910486	3	4,191423	3,938169	6,115877	5,209032
4,063821	4,236764	4,375353	4,768453	4,6722	4,987402	3,901273	4,878665
4,864363	4,738559	4,136308	5,05304	4,442997	3,665008	4,349744	4,435446
5,376066	5,552474	3,924357	5,391235	5,546222	3,954489	4,478105	4,861851
5,093632	4,976446	3	5,105953	4,777354	4,416873	4,296863	4,858068
4,663729	4,918931	3,891214	4,7672	4,472903	3,748731	4,494836	4,415774
4,933513	4,972263	4,246572	4,944196	5,207984	4,195041	4,709465	4,656654
6,163102	5,003504	5,384192	5,188675	5,79096	5,441255	5,869695	5,943524
4,866027	4,387977	4,452967	4,851167	4,542128	3,684316	4,635695	4,645462
5,041708	4,73241	4,584342	5,098298	4,629175	4,008558	4,93155	4,545109
5,262095	5,464847	3,794118	4,874725	5,518343	3,997312	4,23027	4,834484
4,391253	4,273996	4,989454	5,043205	4,764759	3,788614	4,687547	4,718385
4,277128	3	4,813374	4,801129	4,69688	3	4,505489	3
4,765572	4,506451	3,922891	4,784524	3,903925	3	4,681784	4,545938
4,971434	5,244252	3,472771	4,90578	5,32255	3,965211	4,124276	4,692953
4,834662	5,039335	3	5,009961	5,028164	3,615866	4,118066	4,810817
5,768239	6,111296	4,479547	5,699308	6,022964	4,424735	4,971851	5,459407
4,18876	4,8266	4,050186	4,607208	4,23325	3,510585	4,496695	4,434042
5,22763	5,521086	3	5,275242	5,111027	4,168056	4,430511	4,945247
4,777238	5,542651	3,074158	5,148479	4,914666	3,372083	4,166756	4,599621
4,864481	5,303023	3,46623	4,97619	5,021107	4,200385	4,452844	4,616832
5,114511	5,20374	3	4,913273	5,236411	3,231419	4,101953	4,330779
4,650609	5,15351	3,334615	4,902357	4,850046	3,610713	4,194153	4,527372
4,120212	4,579463	5,114411	5,361274	5,244227	4,397749	5,152441	4,471072
4,448923	4,574436	4,395239	4,569795	4,328869	3,987188	4,252998	4,413182
5,49195	5,502386	4,919507	5,515702	5,502468	4,726018	5,255707	5,360025
4,931951	4,745684	4,878493	5,088136	4,604291	3,99893	5,053079	4,611107
5,086538	5,655523	3,633317	5,053808	5,541405	3,94567	4,263234	4,766108
4,541367	4,719572	4,483687	4,916617	4,652556	3,664068	4,462817	4,832841
3,657859	4,086716	4,733005	4,745161	4,78773	3,785942	4,663955	4,443935
5,085076	3	5,384622	5,747723	5,333286	3	5,253992	4,935472
4,731323	4,645795	4,544886	4,410524	4,520064	4,236713	4,473429	4,384156
5,480007	5,528274	5,378253	5,629491	5,360271	4,749288	5,395449	5,379179
5,13043	5,522496	3,2923	5,023046	5,551731	4,510733	4,470969	4,873297
4,406557	4,544254	4,091245	4,750663	4,583924	3,889021	4,376413	4,687172
5,053348	5,482731	3,880996	4,877463	5,276714	3,91429	4,390935	4,4567
3	3	4,319169	4,818285	4,428572	3,647432	4,780562	3
4,832688	4,757753	5,245956	5,318335	5,281987	3	5,065094	4,664989
3	4,395082	3	4,906055	4,603945	3	4,582904	4,334212
5,514548	5,436846	4,918622	5,183213	5,142202	4,678518	4,972453	5,2205
4,179207	4,861576	3,149496	4,452814	4,60335	3,973216	4,738995	4,833485
4,898138	4,586047	4,386178	4,785678	4,901556	3,897633	5,309971	4,8876

4,981184	5,042575	3	5,066885	5,397262	3,92077	3	4,794829
4,720209	4,620864	4,631535	4,684773	4,54915	3,845607	4,576733	4,263021
3	3	4,22084	4,047936	4,542726	3	4,467978	4,240923
5,891281	5,902683	5,669094	6,104897	5,767074	5,347486	5,647501	5,692547
4,549359	5,292057	4,742073	4,733277	4,446522	4,583301	5,230653	4,380048
5,209327	5,346646	3	4,962847	5,034668	3,887477	4,278136	4,693551
5,065766	5,346588	3,289321	5,165422	5,096215	4,015192	4,483059	4,902927
4,692018	4,897644	3,998355	5,065804	4,046807	3,983807	4,719422	4,233681
4,53695	5,17557	3,392292	4,801095	4,684998	3,507964	3,491852	4,056715
4,556785	5,295743	4,440169	4,685778	5,036988	3,575719	4,589056	4,728767
4,321743	4,082139	4,368937	4,474741	3,800676	3,551828	4,258637	4,079072
4,203115	4,373629	3,358239	4,387692	4,281533	3,521948	3,948965	4,246548
4,790918	5,522274	5,162325	5,639437	3	3,532984	4,980035	5,189266
4,33654	4,422097	3	4,836274	4,471482	3,493319	4,204961	4,769215
4,73012	4,547885	4,471395	4,6236	4,601778	3,98014	4,42111	4,56097
4,573208	4,624591	4,403738	4,534153	4,399622	3,796824	4,270096	4,074487
4,817698	5,012921	3,313234	4,608547	4,775486	3,528068	4,418119	4,626443
4,372488	5,225749	3	4,722831	4,920708	3,06277	3,93518	4,451541
4,600243	5,27219	3	4,451233	5,165541	3,054115	3,616213	4,231979
4,679473	4,76104	4,484086	4,664811	4,689069	3,530712	4,704365	4,496985
4,853704	4,624952	5,229938	5,055684	3,750601	3,458638	4,986996	4,842522
4,628522	3,561435	4,195152	4,525887	3	3	4,296643	3,641811
4,811917	4,889178	3	4,626658	4,807731	3,608729	4,106293	4,342699
5,223236	3	3,68736	4,992439	5,182728	3	3,744184	3
4,553288	4,691479	4,164353	4,319397	4,564169	4,350248	4,374895	4,23391
5,289656	5,749682	3	5,147923	5,833893	4,22243	4,198794	4,818048
4,630967	4,552485	4,023582	4,703549	4,503096	3,872121	4,088562	4,480194
3	3,342107	3	3	5,090329	3	3,56534	3
4,593917	4,646854	3,437925	4,162714	4,731854	3,198959	4,325413	4,431074
3	4,482888	3	4,459045	4,254814	3,387941	4,162266	4,37042
4,497745	4,743721	3	4,06066	4,642168	3	3,896024	4,208307
6,161877	5,174525	4,179696	4,766591	5,362181	3,600559	4,115311	4,335378
3	4,565789	4,978098	5,330556	5,249736	3	5,140508	4,5624
4,659012	4,330454	3,781827	4,643867	4,151768	3	4,595673	3,659355
3	4,056028	3	4,241945	3,4814	4,076931	3,908163	3
5,196425	5,177046	3	5,148109	5,424522	3,909866	4,237041	5,044971
4,157608	4,60953	2,985889	4,375993	4,052809	2,87411	3,549445	3,962388
4,461709	5,072213	3	4,370309	4,996402	3	3	3,631444
3,082319	4,47318	3,381097	4,485778	2,348149	3	4,069372	4,471248
4,140037	3,893401	3,808886	3	3,849186	3,138587	4,112572	3,545542
3,88666	4,857707	3	4,366479	4,337299	3	3,734063	4,345824
4,530251	4,242318	4,54958	4,478379	3,594105	3,942474	4,476861	3
4,413451	4,605229	3	3,390865	3,422097	3	3,363198	3,57648
3	3,847091	3,530097	4,517961	3	3	4,30833	4,216667
4,457125	4,785686	3,371585	4,406642	4,692741	3,274065	3,394084	3,301269
4,764654	4,328319	4,636578	4,874632	4,276875	3	4,629603	3
4,069113	4,221753	4,44883	5,030033	5,093142	3	4,160799	3,92076
4,795796	4,566037	3	4,526507	4,702103	3	3	4,096388
3	4,693384	4,176265	4,350694	3	3	4,671673	3,816394
4,509055	3	4,511014	3	3,518816	3	5,494391	4,571755

3	4,675476	3	3,763376	4,12408	3	3,818265	4,258829
4,248096	4,747699	3	4,531505	4,752071	3,376084	3	3,833994
4,271005	4,761883	3	4,25602	4,75131	3	3,619657	3,818153
4,678136	5,211868	3	4,595253	4,763982	3	3,282984	4,01536
4,861851	4,713331	4,450264	4,415123	4,13906	4,044344	4,469969	3,825192
3	3	3,729205	4,538222	3	3,387532	4,606639	3,986189
4,38991	4,648389	3	4,468244	4,312558	3	3,849481	4,271563
4,302894	4,459965	4,071108	4,499013	4,258039	3,732538	4,13969	4,293583
4,434122	4,663145	3	4,286726	4,770756	3	3	3,684046
4,603913	5,694842	4,733302	5,212081	4,81498	4,459438	5,17981	5,324632
4,804712	3,424261	4,708302	3,642811	3,413115	3,093387	4,74071	3,80956
4,354377	4,627653	3	4,352742	4,74756	3,163787	3,31372	4,098678
4,717237	4,859348	3	4,627888	4,784275	3	3,527553	4,184152
4,338417	4,798554	3	4,711824	4,697883	3,861415	4,446211	4,877141
4,302656	4,377962	3,454982	4,531108	4,122773	2,743063	4,08257	4,149866
4,391182	4,899317	3,870369	5,125384	4,163072	3,674797	4,689584	4,797413
4,377707	3,77108	4,580161	3,806146	4,568941	3,757434	4,717654	4,754868
3,784981	4,553167	3	3,92525	4,342265	3	3	3,482816
3,209354	3,48643	3,957052	4,184208	3,787921	3,127234	3,509122	3,306575
4,356848	4,789891	3	4,589805	4,668004	2,801836	3	3,620781
4,531773	5,002555	3	4,101575	4,786183	3	3	4,130623
3,658193	3,947625	3,97084	3,618059	3	3,124798	3,882576	3
4,040206	4,405671	3,568905	3,828802	4,575569	3,126099	3	3,764034
3	4,053961	3	4,146717	3,901671	3	3,8572	3
4,03579	4,387141	2,899793	3,960556	4,383923	3	3,700011	3,19637
4,653502	4,823826	3	4,566956	4,918272	4,1557	3	5,075182
4,334253	4,315508	3	3,958927	4,791543	3	3,540329	4,266866
5,218036	4,384568	4,866258	5,266114	4,688998	4,070444	5,247728	4,492341
3,961853	4,043912	3,691391	3,982958	3,752218	3	3,815943	3,549163
3	4,495406	3	3	4,324427	3	3,31241	3
3,700634	3,768831	3	3,857091	4,066401	3,744786	3,200522	3,725781
4,655014	4,620739	3	4,356313	4,469056	3,218247	3,093422	3
4,894421	3	3	4,936016	5,011528	3	4,683425	4,592021
3	3	3	4,931026	4,655791	3	3	3
4,276347	4,639447	3	3,927222	4,353705	3	3	3,599763
4,553179	5,059147	3	4,810844	5,058046	3	3,894781	4,648292
3	3,889879	3	3,967464	3,33963	3,118695	3,677078	3,636949
3,979466	3	4,161338	4,395623	4,02317	3	4,000607	4,196038
3,842266	4,32164	3	3	4,327359	3	3	3
4,015192	4,025674	3,953436	3,990157	4,206502	3,767875	3,952894	4,071404
4,340266	4,841028	3	4,166844	4,424816	3	3	3,769835
5,558625	5,230679	4,5567	5,141544	4,937121	4,412158	4,966137	4,804317
3	4,147089	3	3,767905	3	2,683839	3,594503	3,728743
4,735519	4,290235	3,561912	3	5,225025	3	3	3
4,177536	4,383474	3	4,261168	4,570718	3	3,513377	3,489255
4,485963	4,487987	3,0566	4,05423	4,205935	3,053232	3,828209	4,134305
3	3	4,352028	4,51883	4,403103	3	4,606682	3
3,874615	4,654225	3	4,316012	4,290057	2,472259	3	3,585912
4,080338	5,377507	3	4,828312	5,077877	3	4,327032	4,662975
4,333467	3,690807	4,117304	4,081743	3,851118	3	3	3

4,092721	4,726523	3	4,088632	4,695166	3	3	3,336099
4,361728	4,729675	3	4,191591	4,337958	3	3,515913	3,669717
3,866476	3,714279	3,760905	4,059033	3,718161	3,351816	3,788225	3,642227
3,753958	3,724554	3	3,839516	4,018867	3,128432	3,658965	3,382053
3	3	3	4,326889	3	3	3	3
4,951235	4,483744	4,186985	3	4,358202	3,68593	4,251127	4,212161
3	3	3,641395	3,884512	3	3	3,634639	3,588518
4,405756	4,969332	3	4,506492	4,285512	3	3	3
3	4,549616	3	4,259522	3	3	4,110657	3
3,487986	3,918219	3,739897	4,230219	3,568249	3,66288	3,716229	3,732056
3,804024	3,727289	3,843208	4,26093	3	3	3,984541	4,273279
3	3,508597	3	3	3,782444	3	3,347447	4,561674
5,133858	4,743604	3	4,492453	5,148078	3	4,097257	4,768956
3,169792	4,025306	3,366329	4,125579	3	3	3,771646	3,899591
3,963519	4,661074	3	3	3	3	3,564583	3,862686
4,274573	4,827201	3	4,358278	4,714262	3	3,486133	4,104658
4,705428	4,816208	3,794732	4,553665	4,56772	3	3	3,712667
3,712229	4,182215	3,480036	4,017534	3,808481	3,479287	3,666153	3,7751
3,715268	3,359854	3	3,73343	3,298264	3	3,143327	3,204906
4,440736	4,876247	3	4,201643	4,682668	3,329133	3	4,036948
3	3,803102	3	4,152533	3	3	3,457412	3,642573
3,511081	4,251443	3	3,555361	3,798188	2,74911	3,287488	2,851809
3,682335	4,282622	3	3,944675	3,163191	3	3	3,475511
3	3	4,372802	3	3	3	3	3
3,998194	4,548426	3	3,890041	4,506451	3	3	3,481615
3,295413	3,742293	3,111666	3,68265	3,949395	3	3	3,323417
4,072911	4,471218	3	4,126229	4,232513	3	3,6068	3
3	3	3,370643	3,877636	3	3,192735	3,884008	4,505963
3	3	4,25312	4,648702	3	3	3	3
3	4,381043	3	3,731814	3,634387	3	3	3
6,02061	5,959118	5,49722	5,912546	5,720134	4,83388	5,480855	5,745684
3,109072	3	2,71417	3,051037	3,147985	2,988332	3,241571	3
3,340741	4,663107	3	3,799582	4,464847	4,025265	3	4,015862
4,222977	3,884744	3	3,624076	4,451633	3	3,263305	3,02592
4,026165	3,920681	3	3	4,233504	3	3	3
4,04976	4,427502	3	3,821002	4,161398	3	3	3,556508
3,937819	3,628522	3,880962	4,159597	4,135451	3,494447	4,173944	3,66574
3	3	3	3	3	3	3	3
3,471585	3,235074	3	3	3	3	3,606328	3
3	4,719049	3	3,985615	3,743376	3	3	3
3	3	3,415724	3	3,165036	2,692424	3,331184	3
3,906265	4,435446	3	4,070703	4,110859	3	3	4,030964
3,631302	4,067852	3,256646	3,833529	4,357801	2,582892	3	3,236411
3	3,435924	3,33684	3	3,414706	3,575072	3	3,66078
4,841904	4,676337	3,577951	4,376887	4,903041	2,65329	3,749296	4,357077
3	4,417273	3	4,666864	4,305394	3	4,631556	4,995912
4,366684	3,443623	3	3	3,310693	3	3,536811	3
3,768601	3	3,825627	3,815378	3	3	3,682867	3,50084
3	4,175367	3	3,972804	3	3	3	3
3,731605	3,657935	3,666846	3	3	3	3,613345	3,85176

3,922061	3,932743	3,493123	3,702241	2,906938	2,816593	3,608291	3,445526
4,179121	3	3,840131	4,083431	3,99092	3	3,95721	3,942336
3,206367	4,529045	3	3,539114	4,049838	3	3	3
4,203495	4,600592	3	4,33662	4,664783	3,585009	3	3,861038
3,741656	4,77747	3	4,086538	4,354243	3	3,114744	3,077441
4,716921	4,84604	3	4,055837	4,010808	3	3	4,112203
4,639656	5,118728	3,966719	4,69421	4,998447	3,903757	4,389609	4,509364
3	3	3,572477	3	3	3	4,163042	3
4,048985	3,971243	3,786482	4,100026	4,140508	3,722404	3,641405	4,347915
3	4,155427	3	4,672772	3	3	4,081563	3,914518
4,437592	4,690852	4,227347	4,40147	4,786908	3,609882	4,008345	3,973677
3	3,402777	2,954305	3,834713	3,319481	3,727891	2,254886	3,837229
3,743909	3	3	3,90871	3,678172	3	3	3,897049
3,678045	3	3	3,477714	3,922725	2,813801	3	4,520038
3,955837	3,65984	3	3	3,7458	3	3	3
3,249125	3	3,138397	3	2,619594	3	3,91667	3
3	3	3	3,828009	3	3	3,431492	3,744434
3	4,234568	3	3,768653	3,752079	3	3	3,446351
4,040721	4,492285	3	3	3,829014	3	3	3
3,634074	4,297038	3	3,870983	3,611734	3	3	3
4,253362	3	3,889722	3	3,449741	3	4,470675	3,654648
3,961872	3	3,56586	4,083036	4,183924	3	4,010215	4,133794
3	3	3	3	3	3	4,162475	3
3	3,102605	3,640124	3	3	3,301963	3,358924	3
5,030964	5,131651	3	4,802055	5,083968	3,607787	3,780756	4,561674
3,800167	3,476339	3,785309	4,048597	3,887398	3,088774	3,478047	3,691974
3,384927	3,888887	3	3	3,407578	3	3	3
3	3	3	3	3	3	3	3
3,263518	3,926085	3,433562	3,670747	3,950993	2,952671	3,371289	3
3	4,219899	5,067108	3,287421	3	4,0306	3,402364	3,58634
3,22745	4,069076	3	3,493402	4,060736	3	3	3,064121
3	3	3	3	3	3	3	3
3,977184	4,313192	3	3,689886	4,352433	3	3	3
3	4,256212	3	3,174002	4,363481	3	3	2,88479
3	4,210746	3	3,541504	3	3	3	3
3,582836	4,055225	3	3,546271	3,88933	3	3	3
3,796297	3,468613	3	3	4,220265	3,6289	3	3,452982
3,495863	3	3	3,33636	3,549886	3	3	3
3,836596	3,800642	3	3	3,566591	3	3	3,289879
4,143764	3,377234	3,590585	3,796782	3	3	4,108057	3,394154
3,88552	3,939824	3,893629	4,121625	3,9209	3,142952	3,868997	3,867279
3	3	3	3	3,751733	3	3	3
3	3,265525	3	3	3	3	3	3
3	4,40221	3	3	3,900858	3	3	3
3,357191	3,511857	3,146624	3,610213	3	3	3,22781	2,978076
3	3	3	3	3	3	3	3
3,863162	3,971243	3	3,764818	4,060471	3	3	3,349472
3	3	3	3	3,315803	3	3	3,470925
3	3	3,188478	3,462083	3	3	3,311436	2,915442
4,236386	4,332055	3	3,909743	4,7248	3	4,340444	3,799616

3	3,667957	3,582768	3	3,401624	3	3,489269	3,085112
3,249834	3,158845	3,15005	3,231801	3	3	3,271423	3
3	3	3	3,363819	3	3	3,015276	3
3	3,358924	3	3	3,284092	3	3	3
3	3	3	3	3	3	3	3
3	3,77886	3	3,408189	2,959561	3	3	3
3	3	3	3	3	3	3	3
3,314899	3	3,314036	3,160589	3	3	3,196674	2,971498
3,730814	3,552461	3,929582	3,869461	3,868797	3,410676	3,411788	3,157094
3	3	3,540755	3,522431	3	3	3,224274	3
4,172982	4,072029	4,045049	4,186306	3,918727	3,830845	3,949873	4,021231
3,755082	4,028368	3	3	4,47091	3	3	3
3,233199	3	3	3	3,681359	3	3	3
3	3	2,652092	3,327154	3	2,278662	3	3,064121
3,457625	3	3	3,312537	3,408036	3	3,071366	3
2,581039	2,745972	3	3	3,338835	3	3	3
3	3	3	3	3	3	3	3
3,610202	3,683326	3,301182	3,697151	3,504973	3	3,629297	3

LFQ intensities of allergic mothers							
Mother A1	Mother A2	Mother A3	Mother A4	Mother A5	Mother A6	Mother A7	Mother A8
9,043009	8,94536	9,044697	9,066475	9,171638	9,083682	9,024158	8,990024
9,591443	9,44495	9,745012	9,375517	9,528351	9,739066	9,670321	9,592843
9,55693	9,296885	9,731315	9,759713	9,801067	9,649939	9,541018	9,485821
8,496763	8,349782	8,541829	8,61325	8,577549	8,697918	8,890796	8,420567
8,78927	8,649257	8,881253	8,894848	9,00877	8,813794	9,062545	8,761846
8,368789	7,888909	8,605886	8,507343	8,677552	8,538498	8,441113	8,457867
8,195346	7,909465	8,335096	8,247998	8,01195	8,114811	8,144169	8,218955
7,962824	7,856699	8,125286	8,138871	8,123492	8,184578	8,431332	7,785885
7,500922	7,742788	7,443419	7,320997	7,382648	8,364682	7,739375	7,316033
8,112906	7,91494	8,345452	8,164561	7,999218	8,135005	8,239124	8,230577
7,428993	7,115111	7,499852	7,644517	7,443592	7,301204	7,333004	7,222508
7,73294	7,118033	7,811213	7,643324	7,943044	7,590229	7,078058	6,973659
7,614507	7,285738	7,721514	7,240274	7,236386	7,072471	7,286389	7,448706
7,51472	7,527359	7,548463	7,681069	7,834834	7,443169	7,472742	7,955019
7,633418	7,876956	6,842659	7,513457	7,467179	6,834198	7,279895	7,86585
6,971201	8,317499	6,440925	7,360612	7,431315	8,210372	6,669624	6,144605
8,074634	7,820589	7,461093	7,864737	7,884541	7,36784	7,306361	7,429898
7,487718	7,633105	7,691895	7,490997	7,651598	7,330191	7,63797	7,734456
7,925627	7,391605	7,772233	8,188563	7,779856	7,356752	7,775086	7,461813
8,060395	7,826166	8,261833	8,115045	7,947615	8,131779	7,990348	7,982791
8,05534	8,401038	7,057438	8,159025	7,966883	7,710075	8,171288	8,034348
6,354397	7,357077	5,607434	6,797724	7,210104	7,974475	6,659698	6,001171
7,494141	7,559978	7,103633	7,351371	7,236764	7,235528	6,946565	7,529366
6,812438	7,006038	6,575211	6,985144	6,709261	6,651298	7,173361	6,395396
3	6,140697	3	6,691541	3	3	3	3
7,3889	7,264723	7,563291	7,156882	7,173856	7,289455	7,072507	7,350132
7,121724	6,784218	7,398704	7,369272	7,053616	7,05816	7,538084	6,822162
6,589916	6,462353	6,944951	7,004536	6,720052	6,661898	6,868351	6,713919
6,569221	6,643916	6,639885	7,014647	7,113007	6,594182	7,046378	6,376522
7,896135	7,898363	7,658259	7,961179	7,970514	7,497096	7,761116	7,495364
7,319647	7,721044	6,77681	7,346744	6,980094	6,71163	6,958693	7,550045
7,312452	6,834007	7,049644	7,195761	6,97855	7,328706	7,464534	7,02003
7,420649	7,040167	7,464221	7,437116	7,106565	7,364288	7,397453	7,303995
6,557375	6,578307	6,564098	6,803703	6,915621	6,779986	6,64361	6,510371
6,62266	6,672357	7,289299	6,67071	7,054115	7,179322	6,776418	6,886581
6,951959	6,780476	6,835151	7,005266	6,959266	6,566709	6,690728	6,760023
6,154941	6,320209	6,444107	6,831991	6,593164	6,514707	6,708429	6,273025
6,448691	6,204798	6,690072	6,455819	6,411973	6,459558	6,017367	6,147985
7,338994	7,684396	6,422409	7,208656	6,796706	7,358163	6,613345	6,570239
6,738773	6,704365	6,85773	6,543149	6,394207	6,528454	6,72453	6,452584
6,38666	6,258637	6,564062	6,983694	6,613577	6,506721	7,051075	6,507789
6,36237	6,23782	6,852955	6,597651	6,224559	6,802295	6,346725	6,317478
6,198327	6,312029	6,40625	6,621031	6,409967	6,162803	6,560002	5,967679
6,785366	7,061151	6,616455	6,833651	6,809768	6,172077	6,189209	7,081599
7,660505	7,392081	7,755349	7,6722	7,433354	7,03161	7,613313	6,744778
6,513031	6,079181	6,443107	6,012162	6,496514	6,770366	6,358696	6,422836

6,432537	6,898072	5,973797	7,118793	7,305308	6,538071	6,682768	7,040602
6,371123	6,558145	6,533734	6,422409	6,304684	6,273395	6,471042	6,365095
3	3	3	3	3	3	3	3
6,026656	6,566473	6,486104	6,555312	6,459227	6,429736	6,386356	6,20257
7,007705	6,407561	6,564512	6,422984	7,075182	6,135673	6,147089	6,306296
6,61254	6,82072	5,496168	6,555916	6,185542	5,975174	3	5,359722
6,594978	5,590162	6,55854	6,107786	6,081671	6,224689	6,356083	6,682651
6,778665	7,074158	6,619072	6,773413	6,470087	6,387799	6,012879	7,152869
6,746198	7,142671	6,164353	7,060018	6,608697	6,189069	6,294863	6,89022
6,627264	7,000477	6,361804	6,564559	6,390953	6,044892	6,06032	6,872244
6,770594	6,704657	6,813674	7,132132	7,097743	6,732217	6,661557	6,681187
3	3	3	3	3	3	3	3
5,857628	5,923674	6,366927	6,463968	6,677671	5,951857	6,804936	6,094471
6,40863	6,383815	6,744567	6,544837	6,641435	6,453272	6,498518	6,406523
6,574587	6,86765	6,004579	6,66306	6,304835	5,800751	6,1442	6,532104
6,707059	7,01791	6,139942	6,630845	6,338138	7,047664	6,30833	5,783339
6,43377	6,658059	5,78136	6,609317	6,157155	5,67554	5,986884	6,393189
6,072691	6,023293	6,696531	6,241945	6,423279	6,094681	6,31973	6,269046
6,236361	5,796685	6,392539	6,176294	5,944507	6,065019	6,103975	6,283573
6,489044	7,040404	6,828737	6,539804	6,324941	7,045753	5,968642	5,971573
6,269979	6,615234	5,745231	6,3843	6,126845	5,830916	5,844769	6,241945
6,447453	6,736747	5,709999	6,578284	6,192679	5,749009	5,493932	6,254766
6,343684	6,328196	6,550192	6,316075	6,533391	6,424914	6,443091	6,447948
6,276761	6,413786	6,594536	6,179265	6,285039	6,250639	6,375499	6,517974
5,709931	6,571464	5,698048	6,28201	5,960495	5,382737	5,541816	5,927509
3	3	3	3	3	3	3	3
6,071992	6,125481	6,348071	6,136879	6,209167	5,894283	6,128399	6,164323
5,495905	5,438827	5,785045	5,84294	5,369809	5,322922	5,387443	5,169968
6,084648	6,36048	6,166608	6,468761	6,372838	6,424784	5,976373	6,288249
6,564145	6,109241	6,299049	6,225645	6,302829	6,144792	6,09251	6,150449
6,34848	5,920984	6,453746	6,416124	6,224196	6,38532	6,607787	6,500497
5,508853	5,624849	5,607862	5,059412	5,318564	5,773391	5,592488	6,224792
5,552814	5,095099	5,421472	6,23429	6,107413	3	5,64913	3
6,404132	6,936529	6,069261	6,645157	6,525459	5,882439	5,831582	6,839421
6,327052	6,732571	5,846961	6,654937	6,345393	5,972485	5,830172	6,491558
3	3	3	3	3	3	3	3
6,224921	6,411737	5,741782	6,074048	5,88869	5,981723	5,558888	5,904375
6,342975	6,5781	5,566013	6,575165	6,206583	5,812131	6,248219	6,358829
6,486869	6,110993	6,541242	6,522444	6,610873	5,991527	5,90886	6,121789
5,817241	5,618508	5,961772	5,789672	5,767653	5,545925	5,763023	6,140193
6,341098	6,465026	5,583822	6,376212	6,054804	5,688162	5,92877	6,467445
3	3	3	3	3	3	3	3
5,869208	5,95612	6,41241	5,905046	6,119223	6,283188	6,081095	6,144855
7,062582	7,84201	6,599228	7,229912	6,857525	6,765251	6,368101	6,586137
5,820267	5,725561	5,794899	6,069335	6,003805	5,355988	5,790489	5,805623
6,282554	6,60709	5,709033	6,474319	6,25421	5,684863	5,8025	6,411114
5,89405	5,290636	6,847961	5,701248	6,871567	6,791782	6,280692	5,448691
5,684244	6,285602	5,781123	3	5,793287	3	5,310821	3
3	4,646698	3	5,5036	5,510102	3	4,963873	3
5,734208	6,594094	5,600374	6,005223	6,03157	3	5,925828	5,705906

5,842509	5,663041	5,93329	5,873495	5,949727	5,872599	5,773925	5,850352
3	3	3	3	3	3	3	3
5,911648	6,805025	5,662446	6,070961	5,97031	5,809358	5,674402	6,295611
5,554792	5,449895	6,051731	5,68498	5,717795	5,782716	5,39905	5,445137
5,52463	5,231699	5,518974	5,345491	5,646943	5,681694	3	5,617881
5,612275	5,414071	5,702008	5,722239	5,656165	5,627509	5,816546	5,550033
5,67134	5,147923	5,752133	5,820195	5,77529	5,698031	5,831556	5,662163
5,955981	6,058957	3	6,009196	5,439854	5,302288	5,525667	5,554961
6,18591	6,946894	4,888404	5,957305	5,150879	3	4,807393	3
6,901382	6,774831	6,353166	5,645688	5,94466	6,644537	6,505245	7,102365
5,866559	5,707383	6,041551	6,149404	6,138966	5,759789	5,675531	5,791599
5,647285	6,244178	3	6,082318	5,747163	3	5,42083	5,860056
5,936619	5,733879	6,563363	6,091456	5,804119	5,888314	6,132868	5,817836
5,544589	6,174932	3	5,829368	5,660287	5,209113	5,317353	5,591476
6,050689	6,235352	6,346275	6,30298	6,271842	5,984509	6,210773	6,022717
6,05835	6,199481	5,240075	5,700453	5,800105	5,617084	6,428847	5,326315
5,52411	4,99135	3	3	3	3	3	5,379088
6,509848	6,35681	6,431959	6,359076	6,252732	6,340147	6,303693	6,285692
6,2284	6,641533	5,314962	6,202897	6,071219	5,531223	5,609765	6,339233
5,535585	5,650288	5,968473	6,245093	5,80721	5,726874	5,796276	5,692053
3	3	3	3	3	3	3	3
5,183811	4,728824	6,028856	5,902824	5,723759	5,628399	5,132452	4,922315
5,968982	6,265973	5,780742	6,202161	5,966278	3	5,162325	6,276714
5,652024	6,028734	3	5,838055	5,644163	5,108193	5,373151	5,546061
5,803266	6,229963	4,904515	6,017284	5,363744	4,968642	5,149004	5,616402
3	3	3	3	3	3	3	3
5,555953	6,171317	5,22678	5,802856	5,348675	3	5,104863	5,666742
5,844707	6,251687	5,376467	6,053501	5,97902	5,308244	5,410017	6,109983
5,746284	5,929981	5,344412	6,171317	5,677297	5,251273	5,313593	5,653762
6,086609	6,345687	5,559452	6,446475	6,368119	5,3673	5,433898	5,726091
5,742851	5,911397	5,431444	6,062394	5,856028	5,699612	5,68219	5,732667
3	3	3	3	3	3	3	3
5,983892	5,762806	5,91177	5,867202	5,813821	5,99254	6,048209	6,076968
5,469807	5,965253	5,568495	5,650744	5,741483	5,248586	5,099266	5,281306
6,188563	6,019988	5,98997	6,09892	5,799265	5,719066	5,948829	5,655263
6,001344	6,541829	5,421061	6,123819	6,059866	5,367524	5,479964	5,992964
5,598407	5,489452	5,997901	5,774174	5,811924	5,78607	5,513989	5,611054
3	3	3	3	3	3	3	3
3	5,345864	6,03543	6,252877	3	5,389202	5,616874	5,488
5,692062	5,211014	5,806431	5,583505	5,433242	5,417953	5,581984	5,527862
6,066177	5,804003	6,120936	5,477382	5,63797	5,853984	5,866642	3
5,65088	6,098159	3	5,343369	5,204011	4,910331	5,193152	5,701084
5,750161	6,077949	3	5,805637	5,278113	5,413685	5,489537	5,787546
5,830647	6,377288	3	5,881556	5,483516	3	5,170056	5,780555
3	3	3	3	3	3	3	3
3	3	3	3	5,560576	3	5,364738	3
3	3	3	3	3	3	3	3
5,707246	5,345178	5,924388	5,709897	5,678919	5,532805	5,545443	5,622494
5,706393	5,873158	3	5,557302	5,082642	5,39333	5,450988	5,205881
6,04914	6,538561	3	5,81957	5,424179	6,035029	5,023623	5,584331

5,494794	5,957253	5,369494	5,667163	5,650385	3	3	5,599566
6,139911	5,438574	6,103735	6,441003	6,454403	6,10568	6,081347	6,144855
5,310353	4,782788	5,481027	3	5,352376	3	3	3
5,553045	5,761243	3	5,656568	5,58835	5,786183	5,998168	5,821186
5,672661	5,353166	5,678792	5,844887	5,424032	5,912551	3	3
5,863335	6,380193	5,053808	5,982597	5,728305	3	5,328502	5,960504
5,404851	5,609338	3	5,506627	5,399154	4,590195	5,525369	5,674365
5,655571	3	5,727314	5,635705	5,918539	5,626648	5,591109	5,559608
5,847973	6,227552	5,289009	6,050805	5,752295	3	5,216166	6,124635
5,779834	6,272352	5,230449	6,106667	5,633206	5,059071	5,104214	5,725601
5,580412	5,254983	5,655187	5,206205	5,456488	5,600341	5,15048	5,233275
5,663946	5,861905	5,993326	5,435924	5,887538	5,942628	5,651685	5,906168
5,810925	5,349879	5,895958	5,852608	5,788755	6,049295	5,663899	5,591966
5,440689	5,760453	3	5,628747	5,315886	3	5,277105	5,333226
5,338476	5,369383	5,45364	5,862668	5,650599	5,253362	5,127299	5,537479
3	3	3	3	3	3	3	3
5,684764	5,702482	5,13653	5,555094	5,19981	5,362633	5,418334	6,08041
5,416358	6,256453	3	5,635232	5,372009	3	4,964929	5,387212
5,361992	6,087568	4,886795	5,498972	5,393259	4,934155	4,892022	5,712347
5,948823	6,174844	5,539477	5,782723	5,798008	6,064645	5,917952	6,155245
5,180298	5,525239	5,185627	5,903405	5,323932	5,796942	5,509848	4,978249
3	3	3	3	3	3	3	3
5,374327	5,802644	3	5,890415	5,930343	4,851411	5,344392	5,593818
5,011697	5,137133	3	5,609338	6,868644	3	3	3
5,263186	4,956654	5,855991	5,413116	5,686538	5,532767	5,372894	5,538058
3	5,331872	3	5,17557	5,132228	3	3	3
5,115311	3	3	3	3	3	3	3
3	3	3	3	6,20137	6,058692	6,359475	3
3	5,893112	5,28355	3	3	5,209435	5,20561	5,19357
5,220736	5,201179	5,485267	5,352144	5,409104	5,325023	5,58872	5,229298
5,218929	5,88063	3	5,563446	5,083646	4,604992	3	5,290613
5,950735	6,211414	5,913066	6,152686	5,909909	5,614401	5,757404	6,15348
3	3	3	3	3	3	3	3
5,237795	3	5,170291	5,507262	5,104726	4,88975	5,06543	5,091069
5,303563	3	5,431911	5,221623	3	4,935069	3	3
3	5,282804	3	3	3	3	3	3
5,885836	6,221388	5,237895	5,928626	5,794816	5,118099	3	5,573069
5,411199	5,857345	3	5,501621	5,334092	3	3	5,208334
6,642989	6,456776	6,908999	6,558156	6,464042	6,691647	6,131137	5,427762
4,996363	5,091983	5,49167	5,386837	5,624323	4,961592	5,117503	4,942911
5,356924	5,756294	3	5,49871	5,045127	3	3	5,36851
5,415157	5,247801	5,418616	5,075729	5,226291	3	3	5,23391
3	3	3	5,613853	3	3	3	3
5,208898	5,814141	3	5,319772	4,947022	4,912546	4,901507	3
5,405346	5,857821	5,386213	5,64659	5,414973	3	4,92356	5,733045
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	5,396531	3	3	3	3	3	3
3	3	5,171989	3	3	3	5,840608	3
5,597256	6,282509	3	5,788394	5,370273	6,05038	3	3

5,17557	5,491194	3	5,132516	5,007022	3	5,07445	5,157638
5,201752	5,534825	3	5,359399	5,193403	3	3	5,465948
5,175019	5,442778	3	5,23782	4,981003	3	3	5,674549
5,546024	5,862936	3	5,836406	5,323335	3	3	5,452461
5,220239	5,1087	5,261453	5,302829	5,250176	3	3	5,059033
3	3	3	3	3	3	3	3
5,162952	5,268976	3	5,297038	5,158362	3	3	3
3	3	3	3	3	3	3	3
5,330373	5,762514	5,179868	5,425811	5,317353	3	3	5,73882
4,941929	5,659213	5,821959	5,434105	3	5,269093	5,308116	5,474944
5,71433	3	5,112135	5,539566	5,82171	5,236411	3	5,218168
5,394627	5,569596	3	5,43072	5,288316	3	5,099404	5,576871
5,246745	5,647031	3	5,40147	3	3	3	5,145849
5,246474	5,406642	3	4,966264	5,024527	3	5,023623	3
5,66847	5,53556	5,721852	5,557784	5,675191	5,282849	3	3
5,705513	5,481743	5,790341	5,21381	5,358677	5,358677	3	3
5,217062	5,579612	3	5,20989	5,34557	5,456851	3	3
4,857327	5,480668	3	5,085683	5,062582	3	3	5,094087
5,130012	4,853601	5,979812	5,130977	5,43468	5,409899	5,518264	5,461318
5,264936	5,33694	3	5,360764	5,043087	3	3	5,332095
5,375243	5,893856	3	5,473005	5,287869	3	3	5,565198
5,23965	3	3	3	5,306897	3	3	3
5,51858	6,093001	3	5,559655	5,22282	5,346959	3	5,63188
5,029587	5,022758	3	5,262261	4,855325	3	4,594326	4,782795
5,31012	6,190276	3	5,262332	5,140256	5,024404	3	5,333306
3	3	3	3	3	3	3	3
3	5,507127	3	5,245118	5,363762	3	3	3
5,499357	5,7503	3	5,51375	5,07489	5,025838	3	3
5,499357	3	3	3	3	5,412864	3	3
3	5,486473	3	3	3	3	3	5,344746
5,278273	3	5,741222	5,451756	5,598166	5,334333	3	5,283278
5,418699	5,851546	3	5,547479	3	3	3	5,663559
3	4,600058	5,161098	5,245439	5,867785	3	3	3
3	3	3	3	3	3	3	3
5,053232	5,018451	3	4,973871	4,891771	3	3	5,269022
4,590229	4,682515	3	4,697195	3	3	3	3
5,065654	4,833721	5,28558	5,060131	5,22144	4,976111	4,735312	4,967716
3	3	3	3	3	3	3	3
3	5,343409	3	5,23175	3	3	3	5,189266
3	3	3	3	4,986023	3	3	3
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
5,302872	5,511081	3	5,445012	5,227501	3	5,217247	4,966897
4,837576	5,464087	3	5,446351	3	3	3	3
5,27591	5,690852	3	5,508893	5,245686	3	3	5,349608
5,196729	5,036549	5,424277	5,407442	5,481915	3	3	5,045362
3	3	3	3	3	3	3	3
4,913199	5,479071	3	3	4,837064	3	3	5,010512
3	5,960209	3	5,127364	3	3	3	5,387052
3	3	3	5,094366	5,057628	3	3	3

5,413937	5,893468	3	5,556158	5,243856	3	3	5,66186
5,381422	5,903296	3	5,381259	4,99021	3	3	5,460296
3	3	3	4,993083	5,065318	3	3	5,089057
3	5,109376	3	5,318356	3	3	3	3
3	3	3	3	3	3	3	3
3	4,946904	3	3	3	5,339113	3	3
5,617074	4,862871	3	5,004923	4,97551	3	3	3
3	5,478826	3	5,020734	5,016323	3	3	3
5,153388	3	3	5,000087	3	4,741144	5,198547	4,47318
5,796588	4,861696	6,129786	5,350829	5,426316	5,563077	5,412948	5,486133
5,44367	3	5,108903	5,099404	3	5,42359	3	3
6,238021	3	3	3	3	6,240923	6,266514	3
3	3	3	3	3	3	3	3
5,325413	5,158302	5,756788	5,474377	5,359285	5,341039	5,060358	4,847529
4,70734	5,690869	3	3	3	3	3	3
3	5,349899	3	5,287444	5,021437	3	3	3
5,24608	5,389733	3	5,388492	3	3	3	5,105442
3	3	3	3	5,003245	5,124341	3	3
3	5,104589	5,095797	5,138397	5,122216	5,092335	3	3
4,873472	5,304706	3	5,178574	3	3	3	5,347564
5,184464	3	3	5,146841	3	3	3	3
4,81699	5,734191	3	5,295875	5,234213	3	3	5,605693
5,063559	5,882513	3	3	3	3	3	5,039136
3	3	3	3	3	3	3	3
4,922378	5,443686	3	5,17196	3	3	3	5,195096
3	4,991766	3	5,31133	3	3	3	3
4,928831	5,186363	3	5,176612	3	3	3	3
3	5,603567	3	3	3	5,096736	3	3
3	3	3	3	3	3	3	3
3	5,317729	3	5,003547	4,879291	3	3	3
3	5,87271	3	3	3	3	3	3
5,2178	3	5,189995	3	3	5,169381	3	5,172982
3	4,896013	3	3	3	3	3	3
4,750809	5,612201	4,622742	5,123558	5,021148	3	3	4,971364
3	5,907202	3	6,115744	5,496791	3	3	3
4,888337	5,104009	3	3	3	3	3	5,027023
3	3	3	3	5,042733	3	3	3
3	3	3	3	3	3	4,880871	3
3	3	3	5,20137	5,665843	3	3	3
3	4,873698	3	4,786489	4,771904	3	3	3
4,974678	3	5,061904	3	5,002295	3	3	3
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	4,934498	5,03587	3	3	3	3	3
5,139942	5,352086	3	5,373978	5,181701	3	3	3
5,914655	5,983996	6,001561	5,196231	5,130784	5,903052	3	3
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	5,10161	3	4,999313	3	3	3	3
5,084898	4,777804	3	3	4,711284	3	3	3

5,300835	5,008685	5,39361	3	5,255272	5,451817	3	3
3	3	3	3	3	3	3	3
5,075182	5,87321	3	5,146903	3	3	3	5,310226
3	5,117139	3	3	3	3	3	3
3	5,102914	3	4,833198	3	3	3	3
3	5,292079	3	5,140068	3	3	3	3
3	5,300226	3	3	3	3	3	3
4,766948	5,626894	3	3	3	4,816182	3	3
3	4,957679	3	3	3	3	5,118265	3
4,970031	3	3	3	4,930174	3	3	3
3	5,521086	3	4,674494	4,659031	3	3	3
5,690045	5,585021	5,581734	3	5,072691	5,466111	5,478234	5,973197
3	3	3	3	3	3	3	3
3	4,754692	3	3	3	3	3	4,765572
3	3	3	3	3	3	3	3
3	5,862614	3	5,263731	3	3	3	3
3	5,040167	3	3	3	3	3	3
3	5,44248	3	5,039969	3	3	3	3
3	3	3	3	3	3	3	3
3	5,039136	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	5,089835	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	5,67071	3	3	3	3	3	3
5,230832	3	3	5,168056	3	3	3	3
3	5,061641	3	5,193876	3	3	3	3
4,717687	5,098298	3	4,979079	3	3	5,096562	3
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	5,231546	3	4,998355	4,703738	3	3	3
3	5,022016	3	3	3	3	3	3
3	4,483687	3	3	3	3	3	3
3	5,439775	3	5,079254	3	3	3	3
4,399604	4,395134	3	4,396409	3	3	3	3
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	3	3	4,787482	3	3	3	3
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	5,179236	3	3	3	3	3	3
3	4,962322	3	4,730249	3	3	3	3
3	4,982371	3	3	3	3	3	3
3	3	3	5,075511	3	3	3	3
3	4,67121	3	4,797808	3	3	3	3
3	3	3	4,797392	3	3	3	3
3	4,866506	3	3	3	3	3	3
3	4,827544	3	4,960381	4,731234	3	3	3
3	3	3	3	3	3	3	3

4,743643	5,042851	3	4,896179	3	3	3	3
3	3	3	5,023335	4,766413	3	3	3
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	4,958153	3	3	3	3	3	3
3	4,68777	3	3	3	3	3	3
3	4,831467	4,742827	5,207122	5,11886	3	4,749752	3
3	3	3	3	3	3	4,430542	3
3	4,434473	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	4,546604	3	4,464936	3	3	3	3
3	4,433866	3	3	3	3	4,925152	3
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	3	3	3	3	3	4,570473	3
3	4,814481	3	4,847233	3	3	3	3

		LFQ intensities of non-allergic mothers					
Mother A9	Mother A10	Mother N1	Mother N2	Mother N3	Mother N4	Mother N5	Mother N6
9,101025	9,272352	9,585517	9,355145	9,515238	9,453747	9,233605	9,351139
9,522092	9,54413	9,60081	9,479776	9,437227	9,453502	9,343921	9,377124
9,765229	9,487082	9,701248	9,497828	9,508059	9,491025	9,567414	9,483388
8,534825	8,160378	8,653531	8,300791	8,277723	8,038183	8,84604	8,500401
8,791803	8,890282	8,770469	8,56606	8,767638	8,625631	9,028896	8,766301
8,708081	8,433722	8,67499	8,466274	8,490717	8,54209	8,380555	8,352337
7,954479	7,833924	8,201998	7,935986	7,826884	7,693692	8,623394	8,277999
8,030519	7,629185	8,288986	7,71032	7,869091	7,650055	8,367673	8,13242
7,537467	7,299333	8,699265	8,460672	8,775654	8,095901	8,553191	8,2521
7,772476	7,689487	7,986131	7,79508	7,342837	7,239024	8,23626	7,663371
7,343015	7,359019	7,533569	7,493569	7,746782	7,434904	7,649734	7,47525
7,957636	7,160559	7,586868	7,118	7,137101	6,915094	7,27133	6,950136
7,428119	7,734592	7,929061	8,313847	8,469822	8,119355	7,902226	8,291058
7,58734	7,668796	7,561566	7,694008	7,551816	7,405312	7,774634	7,498986
7,514242	7,583879	7,322033	7,483544	7,487548	7,630326	6,682217	7,333125
7,543459	7,216351	8,015612	7,579235	8,256862	7,191786	8,682533	7,31012
8,019739	7,305996	7,177623	7,341137	7,792938	7,14392	8,024978	7,819537
7,609231	7,741404	7,57802	7,500085	7,77069	7,658813	7,375096	7,498241
7,604949	7,514136	7,462937	7,43001	7,58835	7,454494	8,364719	8,002857
8,003675	8,08041	7,959933	7,705736	8,018118	7,684585	7,636448	7,796373
7,886271	7,92128	7,98266	7,682732	7,671885	7,840595	7,292943	7,821474
7,131939	6,170877	6,01949	6,836033	7,339193	6,648477	7,979366	6,684818
7,321888	7,460432	6,890265	7,42282	7,240025	7,512258	6,720936	7,263186
6,536217	6,803027	7,662965	7,601223	7,536685	7,134081	8,124732	7,740252
3	5,915964	3	3	3	3	3	3
7,307753	7,418815	6,926131	6,990325	7,032054	7,157003	6,928729	7,030235
7,338337	7,149496	7,425045	7,119487	7,056562	7,22243	7,045401	7,076276
6,724604	6,277815	6,43919	6,237971	6,170848	6,128916	6,896201	6,699369
6,642484	6,700106	6,618341	6,429978	6,663173	6,159417	6,820017	6,796366
7,77111	7,719116	7,327379	7,264346	7,574031	7,195817	7,705915	7,910737
7,23772	7,234669	7,105578	7,24763	7,313171	7,531696	6,339749	7,069557
7,026533	6,555324	7,405637	6,909411	7,041314	6,664689	7,479287	7,22204
6,976107	7,47631	7,066587	7,104009	7,12408	7,214579	7,005009	7,429122
6,808872	6,698066	6,944355	6,749435	7,161038	6,928545	6,861516	6,802699
6,97766	7,141763	6,972966	6,81781	6,992231	7,125319	7,275864	6,934645
6,725601	7,180957	6,923995	6,89334	6,978714	7,005995	7,271284	7,144013
6,292677	6,305889	3	3	5,828596	5,707817	6,716237	6,511107
5,941154	6,65605	6,438827	6,463535	6,51484	6,887629	6,759894	6,579086
7,422229	6,955774	6,939978	6,983577	7,335959	6,679837	7,492579	7,178516
6,357973	6,361804	6,692512	6,325023	6,344038	6,256718	6,804936	6,709524
6,433065	6,154211	6,424343	5,931356	6,171258	6,122707	6,849512	6,439459
6,630224	6,651772	6,412276	6,03519	6,257871	6,183327	6,092861	6,18047
6,088597	5,956135	6,431219	6,086965	6,041432	5,924615	6,660524	6,48609
6,798236	7,060962	6,525239	6,967	6,866358	7,258901	5,805358	6,467238
7,546358	6,990494	6,965752	6,87882	7,59997	6,828609	7,598013	7,399431
6,440893	5,781346	5,684109	5,668684	5,251322	5,122282	5,117702	5,080915

6,950876	6,988791	6,708293	6,479172	6,559547	6,4079	6,464818	6,515728
6,237845	6,08987	6,274366	6,140853	6,268086	6,412125	7,290658	6,60081
3	3	3	3	3	7,32742	3	3
6,574147	6,449571	5,98789	6,203984	6,272932	6,007278	5,898297	5,877343
6,193542	7,281579	6,594282	6,061264	6,993344	6,986807	6,746292	6,797129
6,628644	5,858796	5,983919	5,791712	6,254065	5,632366	6,534673	6,010046
6,583811	6,439459	6,000738	6,712902	6,322178	6,185542	6,603426	6,319668
6,660353	7,01603	6,816851	6,798416	6,958559	7,336319	5,91598	6,646619
6,70021	6,778383	6,332903	6,715627	6,544973	6,904272	5,676693	6,35455
6,481256	6,490745	6,429914	6,704073	6,611362	6,902476	5,664134	6,437513
6,993956	6,844781	6,69702	6,709999	6,734368	6,61326	6,50896	6,734592
3	3	3	3	3	3	3	3
6,77478	6,381963	6,124537	6,511001	6,83922	6,128981	6,899279	6,482602
6,441617	6,506667	6,151094	6,18435	5,950501	6,115976	6,189575	6,245636
6,51199	6,489312	6,330941	6,450588	6,462008	6,779329	5,59707	6,4134
6,332519	6,191451	6,404166	6,127947	6,669503	6,162236	6,887792	6,254959
6,311733	6,188985	6,1809	6,455317	6,399362	6,532614	5,736149	6,39827
6,37005	6,695569	6,42896	6,049412	6,504063	5,59437	6,139911	6,099991
5,650735	5,630499	6,202734	3	5,865684	5,697002	6,569175	6,112772
6,123721	6,053424	6,543385	5,894858	6,048558	6,040127	7,204798	6,506613
6,169263	6,409697	6,355452	6,668386	6,736396	6,868086	5,818984	6,632113
6,364851	6,202298	5,909695	6,219951	6,255514	6,532449	5,244895	5,958621
6,273464	6,400383	6,16711	6,116143	6,439932	6,205556	6,051886	6,302504
5,978518	6,437148	6,3368	6,198877	6,496598	6,304016	6,011063	6,326581
6,077767	6,233529	5,758957	5,98455	6,333105	6,747777	4,816215	6,285017
3	3	3	3	3	3	3	3
6,251614	6,630702	6,317688	6,204717	6,342679	6,457397	6,037745	6,469321
5,536659	5,082929	5,523838	5,623125	5,420533	5,550889	6,442636	5,807806
6,238698	5,900362	6,233706	5,724546	5,896835	6,038342	6,11551	6,028815
6,18364	6,490464	6,423803	6,392539	6,678272	6,418401	6,933432	6,543907
6,281897	6,383492	5,625888	6,213491	6,1634	6,343054	6,413283	6,395291
5,454235	5,533543	3	6,035069	3	5,30298	5,57833	5,590831
5,820753	3	5,799513	3	5,765341	5,811937	6,080049	5,76095
6,731943	6,739002	6,22131	6,545332	6,540079	6,939085	5,000174	6,471277
6,489509	6,611012	6,264204	6,544861	6,619365	6,774466	5,861379	6,419261
3	5,656366	3	3	3	3	3	3
5,723841	5,815292	5,815863	3	5,572453	5,130655	5,509673	5,591009
6,183526	6,290613	6,241646	6,273695	6,187323	6,39905	3	6,255971
6,679591	6,656347	6,596883	6,48548	6,743682	6,746144	6,917085	6,953233
5,834599	5,710896	5,92355	5,688562	5,850622	5,590608	5,829651	5,556483
6,414121	6,315361	5,950482	6,196121	6,150695	6,507141	3	6,034027
3	3	3	3	3	3	3	3
5,871006	5,961388	5,717129	6,005652	5,485963	5,802117	5,778397	5,591087
6,816685	6,916227	6,572302	7,36797	6,718319	7,798402	6,197308	7,119915
5,736421	5,620438	5,676328	5,63811	5,591632	3	6,083467	5,822129
6,34455	6,351236	5,949341	6,173681	6,164055	6,308244	5,392978	5,743526
5,336259	5,807576	5,639666	5,652556	5,381548	5,756309	6,625919	6,184691
5,980894	6,160978	6,202679	6,588193	6,25159	6,286277	5,493598	5,978016
3	4,758692	3	3	3	3	3	4,875507
6,262783	5,634407	6,602581	5,980099	6,462922	6,330556	6,707323	6,542714

6,111834	5,96069	5,436925	5,501538	5,518093	5,525783	5,696566	5,658326
3	3	3	3	3	3	3	3
5,946024	6,063709	6,059866	6,129883	5,992385	6,47066	5,758238	5,899317
5,525899	5,670839	3	3	3	3	3	3
5,125611	5,801033	5,930261	5,320188	5,289098	5,485295	6,393698	5,829767
5,526378	5,53671	3	5,084791	5,387016	5,352144	5,39667	5,227861
5,80276	6,0574	6,253871	6,234998	6,615413	6,163132	5,853382	6,189181
5,784225	5,559488	5,349608	3	5,249614	5,646531	5,183013	5,385177
5,715978	4,586958	3	3	5,529469	3	6,37116	3
6,320209	6,576698	5,631068	6,891348	5,560289	5,654754	6,173361	6,063221
5,848706	6,19717	5,829477	5,312474	5,882763	5,622079	5,643077	5,865329
5,902661	6,100715	5,694281	5,752302	6,140822	6,277403	3	5,909283
6,414071	6,082318	6,144107	6,003159	6,389007	6,092089	3	6,256526
5,611139	5,500332	3	5,214897	5,346255	5,521073	3	5,475424
5,744129	6,423884	6,081707	5,889627	6,148633	6,102708	5,71551	5,994735
5,269629	6,503546	6,668162	6,606983	6,191786	6,052116	6,01603	5,872046
5,511389	5,641841	3	3	5,579109	3	3	5,272167
6,249639	6,3622	6,117371	5,961279	6,438748	6,053348	6,195678	6,356561
6,253847	6,093492	5,833224	6,073021	6,143733	6,326377	5,332095	5,812111
5,597783	5,566084	5,67881	5,347213	5,358468	5,118066	5,720201	5,742104
3	3	3	3	3	3	3	3
5,963802	5,326766	5,731879	5,285692	5,157245	5,109983	3	5,033504
6,068186	6,092545	5,927581	6,101438	6,002684	6,19728	5,367505	5,748583
5,859565	5,768113	3	3	5,661434	5,669605	3	5,664567
5,408104	6,081851	5,619459	6,071735	6,430349	6,683146	5,134081	6,234062
3	3	3	3	3	3	3	3
5,677096	5,954561	5,490941	5,667332	5,859931	6,11227	3	5,680625
6,205881	6,102159	5,435303	5,931519	5,594492	6,485906	3	5,964844
5,582109	5,774583	5,395134	5,631423	5,646335	5,859318	3	5,591566
6,190248	6,194181	5,587397	5,83707	6,031974	6,21801	3	5,690099
5,772036	5,839535	5,530494	5,823089	5,753859	6,054881	3	5,599948
3	3	3	3	3	4,871579	3	3
5,948232	5,893034	5,784703	5,775115	5,700236	5,766926	5,80813	5,774393
5,420055	6,354166	5,96802	5,782981	6,442684	6,363932	5,852639	6,076641
5,932261	6,013006	5,947811	5,625672	5,981134	5,74256	6,104214	6,001993
5,917395	6,342146	5,774816	6,123525	6,158483	6,600842	5,267711	5,968049
5,457443	5,770211	5,412394	5,41792	5,245735	5,345335	5,470175	5,527346
3	3	3	3	3	3	3	3
3	3	3	5,284769	5,223678	3	5,658898	5,7758
5,756567	5,596113	5,55461	5,468879	5,490576	5,421011	5,640133	5,433994
5,940347	6,174409	6,355241	6,377033	6,411805	6,508395	6,657199	6,52621
5,294554	5,595529	5,373151	5,783167	5,856475	6,196536	3	5,608034
5,512938	5,457276	5,59024	3	3	5,605876	5,140162	5,487167
5,684845	5,748978	5,398634	5,73583	5,688651	6,120804	3	5,794864
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	5,656175
3	3	3	3	3	3	3	3
5,527488	6,044069	5,957842	5,949839	6,242417	6,138429	5,878798	5,793211
5,354684	5,407493	3	5,133251	3	5,642395	3	5,183611
6,405756	5,75211	5,529443	5,261643	6,012795	5,356848	5,443607	5,490633

5,748328	5,754027	3	6,249467	5,588597	5,593541	3	5,478523
6,00843	5,911977	5,781971	5,693938	6,013554	5,733815	6,101541	5,8296
4,748335	5,273534	3	3	3	3	3	3
5,584512	6,24672	6,763735	6,791663	6,674953	6,67158	6,770572	6,67663
5,770314	6,134177	6,275288	3	5,450434	5,848909	5,468067	3
5,957717	5,910213	5,306832	5,861134	6,085469	6,094401	3	5,767453
5,364945	5,494168	5,542402	5,595739	5,766138	5,971939	3	5,697386
5,820694	5,737765	5,51167	5,604312	3	5,629359	5,628818	5,617901
6,064907	6,045127	5,365357	6,049567	5,711495	6,209408	3	5,705162
5,535408	5,627561	5,314457	5,639058	5,580172	6,281283	5,649851	5,48575
5,2727	5,13526	5,169027	3	5,150173	3	5,373574	5,031933
5,771183	5,751418	3	5,204039	5,628695	5,610384	3	5,5619
5,321847	6,232437	5,998913	6,130752	5,862155	6,347779	6,312664	6,374675
5,379885	5,325577	5,186956	5,133219	5,008558	5,183185	3	5,313783
5,385571	5,69647	3	4,987943	5,651578	5,469881	5,751402	5,468879
3	3	3	5,796713	3	3	3	3
5,662597	5,79994	3	5,633842	5,933538	5,964863	3	5,707101
5,488085	5,606628	3	5,481586	3	5,96887	3	5,566402
5,395728	5,75697	3	5,490633	5,72453	5,817413	3	5,330616
5,918182	5,626587	5,627315	6,014814	6,012247	5,958592	6,02247	5,798678
5,301572	5,283866	3	5,362746	5,834395	5,453012	6,369846	5,843077
3	3	5,745255	3	3	3	3	3
5,712734	5,544738	5,292212	5,639885	5,827111	5,853187	3	5,470175
5,501046	5,759494	3	5,847116	5,842734	3	3	5,658031
5,619511	5,517077	3	5,574772	5,580206	5,592632	5,406915	3
4,946496	5,682262	3	5,504212	5,394907	5,586373	3	3
3	3	3	3	3	3	5,016532	3
3	3	3	3	3	3	3	3
3	3	3	3	5,376632	5,353628	3	3
5,211761	5,581563	5,528801	5,451418	3	5,587812	3	5,450957
5,533848	5,636698	3	5,058654	5,092124	5,325228	3	3
5,981841	6,08239	5,878981	6,488847	6,480007	6,458184	5,745075	6,260214
3	3	5,529623	3	3	3	3	3
3	5,4722	5,000955	5,089693	5,429122	5,039612	4,832317	5,264416
6,13088	5,32791	4,9007	5,160678	3	3	3	3
3	4,893801	5,059564	4,815763	5,660524	5,270026	3	5,209944
5,6763	5,651888	3	5,540192	5,497123	5,828331	3	5,504457
5,351642	5,190304	3	5,175918	5,20393	5,686082	3	5,096354
6,145321	6,646188	6,127752	5,563446	5,130816	6,13526	5,893001	6,442699
5,197914	5,077222	3	3	5,146903	4,814487	4,992682	3
5,208011	5,117934	3	5,406608	3	5,551999	3	5,066773
5,66077	5,242243	3	5,13634	5,406285	5,076385	5,598933	5,196894
3	3	3	3	3	3	3	3
4,911381	3	3	3	3	3	3	4,860086
5,420237	5,605564	3	5,483473	5,511549	5,740765	3	5,418931
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	3	3	3	5,429914	3	3	3
3	5,480079	3	3	3	3	3	3
5,557411	3	3	3	5,87564	3	5,853577	3

5,19885	5,080771	3	3	3	5,246942	3	3
5,297979	5,315529	3	5,283889	5,14192	5,576422	3	5,233479
3	5,238523	3	3	3	5,25358	3	3
5,460116	5,728646	3	5,631667	5,658269	6,074341	3	5,489382
5,232055	5,370347	3	3	5,491838	5,438036	5,440909	5,089587
3	3	3	3	3	3	3	3
5,154302	5,213092	3	3	3	3	3	3
3	3	3	3	3	3	3	5,144792
5,335959	5,592177	3	5,178545	5,41504	5,665618	3	5,314836
5,18608	5,156791	5,794837	5,969765	5,232869	6,531415	5,722066	5,892356
5,341237	5,161428	3	3	5,487407	3	5,805501	3
5,390953	5,388492	3	5,32742	5,456411	5,656347	3	5,169439
5,07715	5,361066	3	5,277426	5,595143	5,67109	3	5,325475
3	5,114678	5,4019	5,403103	5,156307	5,3365	3	5,276485
5,532576	5,823278	5,268835	5,191898	5,34918	5,411316	5,180842	5,474973
3	6,023252	5,394049	5,200495	5,649773	6,09054	5,219113	6,183327
5,625714	4,965488	3	3	5,611564	3	5,565682	3
5,359456	5,059866	3	5,049257	3	5,308479	3	3
5,570192	5,489044	3	5,185627	3	4,900651	5,375389	5,222066
5,246843	5,239725	3	5,33708	5,182072	5,429058	3	5,25602
5,414204	5,491208	3	5,643541	5,483202	5,956769	3	3
3	3	3	3	3	3	3	3
5,616969	5,449185	3	5,418036	5,377725	5,686627	3	3
3	5,031529	3	3	3	3	3	3
4,963675	5,39361	3	3	5,1329	5,300508	3	3
3	3	3	3	3	3	3	3
5,242517	5,288316	3	3	3	3	3	3
5,106701	5,314036	3	5,20785	6,063296	5,237142	6,021727	5,956471
5,384371	3	3	5,358525	3	5,195402	3	3
5,354243	5,410541	3	3	3	5,337699	3	3
3	5,731395	3	3	3	5,261358	3	3
5,241671	5,460702	3	5,254766	5,543956	5,658965	3	5,246769
4,432263	5,17467	5,136055	3	5,582347	3	3	5,297345
3	3	3	3	3	3	3	5,166608
5,199975	5,147027	3	3	5,464534	5,447189	3	4,807549
4,554525	4,995701	3	3	4,888124	5,445464	3	4,829696
4,948281	5,422064	3	3	3	4,824263	3	4,782473
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
5,089658	5,043048	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	5,716087	3	3	6,116143	5,893445	3	3
3	5,177681	5,070223	3	3	5,212587	3	4,920321
3	4,959213	3	3	5,350539	4,860625	3	3
5,109511	5,301312	3	5,08941	5,148911	5,297804	3	5,137069
5,369327	5,494196	3	3	5,501853	5,512604	3	3
3	3	3	3	3	3	3	3
5,18608	5,029708	3	3	3	5,575211	3	5,211254
5,269816	5,360177	3	5,622307	5,275956	5,793071	3	5,265879
4,935668	4,985723	3	4,867868	5,010385	3	5,022387	3

5,324365	5,481958	3	5,32952	5,469277	5,907137	3	5,279781
5,160018	5,293959	3	5,261049	5,194931	5,656281	3	4,989708
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	4,620469
3	3	3	3	3	3	3	3
4,920249	4,714137	3	3	3	3	3	3
5,007022	5,253047	3	5,188056	5,329561	5,721498	3	5,090011
3	3	3	3	3	4,886384	3	3
5,188732	5,57528	5,36118	5,401021	5,296248	5,313255	5,374822	5,402485
3	5,078819	3	3	4,786453	3	3	5,057856
6,082139	3	3	6,409713	3	3	3	3
3	3	3	3	5,32418	3	3	3
4,795825	5,7096	3	3	3	5,289901	5,143296	5,248243
4,601571	4,493319	3	3	4,51635	4,947012	3	3
5,009663	5,111733	3	5,343763	5,123296	5,503259	3	5,100095
5,502837	5,524798	3	5,560719	5,567015	5,494767	3	5,500881
3	3	3	3	3	3	3	3
4,896217	5,14814	3	3	3	3	3	3
3	3	3	3	3	5,396879	3	3
3	3	3	3	3	3	3	4,775443
5,207581	5,651501	3	5,41098	5,089304	5,480984	3	5,014772
4,972018	3	3	5,195485	3	5,166016	3	4,918455
3	3	3	3	3	3	4,967131	3
3	5,174757	3	5,239174	5,047586	5,313635	3	3
3	4,94351	3	3	3	3	3	3
4,777361	4,964816	3	3	3	3	3	3
5,15794	5,023252	3	5,053348	3	3	3	4,927894
3	3	3	3	3	3	3	4,942286
3	5,146159	3	3	3	5,164769	3	3
5,874696	5,498738	6,001301	6,121297	6,618445	6,390617	6,137354	6,245809
4,917548	5,132516	3	3	3	3	3	3
3	4,719712	3	3	3	5,384963	3	3
3	4,854883	3	4,838459	5,119454	4,996446	3	4,635956
3	5,666883	3	3	5,79724	5,744559	3	3
3	3	3	3	4,963278	3	3	3
4,727639	4,840118	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	4,717862	3	3	3	3	3	3
3	4,873303	3	3	3	5,256982	3	3
5,21088	4,93416	3	3	3	3	3	3
3	3	3	3	3	3	3	3
4,916122	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
4,976061	5,339332	5,027186	5,224274	5,887471	5,666256	3	5,473063
3	5,210746	5,706163	3	3	5,878407	3	5,975087
3	3	3	3	3	3	3	3
3	3	3	3	4,648818	3	3	3
3	3	3	4,869032	3	4,85135	3	4,659555
3	4,744762	3	3	3	3	3	3

4,973719	5,290257	5,310969	3	5,399829	5,334494	5,256501	5,153784
3	3	3	3	3	3	3	3
5,226161	5,127493	3	3	3	5,895533	3	3
3	4,916375	3	5,212773	3	5,248611	3	3
4,835253	3	3	3	4,772124	5,737407	3	5,320956
3	5,070481	3	5,386374	5,338716	5,529918	3	3
3	5,124439	3	5,745137	5,447003	5,764116	3	5,299812
3	3	3	3	3	3	3	3
3	5,469778	3	3	3	3	3	3
3	4,964316	3	3	3	5,121001	3	5,570928
4,597432	3	3	5,288517	5,318314	5,661576	5,496016	5,201916
5,248758	5,592887	3	5,716154	3	5,165037	5,148016	5,561066
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
5,144294	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	5,069224	3	5,088384	3	3	3	3
3	3	3	3	3	3	3	3
3	3	3	3	3	5,236789	3	3
3	3	3	3	3	3	3	3
3	3	3	3	4,626494	3	3	3
3	3	3	3	3	3	3	3
3	4,747637	3	3	3	3	3	3
3	5,178948	5,16776	5,819978	5,776374	5,804664	3	5,494474
3	4,841059	3	4,695543	3	3	4,993753	5,111598
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	3	3	3	3	3	6,321495	3
4,557543	4,751425	3	3	3	5,280556	3	4,900088
3	3	3	3	3	3	3	3
3	3	3	3	3	5,011105	3	3
3	3	3	3	3	5,231342	3	3
3	4,508152	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	4,903893	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	3	3	3	3	5,020941	3	3
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	3	3	3	3	5,176178	3	3
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	3	3	3	5,013974	5,125449	3	3
3	3	3	3	3	3	3	3
3	3	3	3	3	3	4,796339	4,73759
3	3	3	3	5,03539	3	3	3

3	3	3	4,879944	3	3	3	3
3	4,614518	3	3	3	3	3	3
4,508543	4,424081	3	3	3	3	3	3
3	3	3	3	3	3	3	3
4,204364	3	3	3	3	3	3	3
3	4,538888	3	3	3	4,861176	3	4,567497
3	3	3	3	3	3	3	3
4,718103	4,89013	3	3	4,911786	3	5,052386	4,716638
3	3	3	3	4,643008	4,492062	5,359627	4,661197
3	3	3	3	3	3	5,025633	3
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	4,642514	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3
3	3	3	3	4,882319	4,889206	3	4,81472

Mother N7	Mother N8	Mother N9	Mother N10
9,430285	9,540455	9,236058	9,502769
9,445184	9,621207	9,405568	9,453303
9,465621	9,333266	9,647803	9,534
8,605671	8,226574	8,564074	8,344825
8,752524	8,788451	8,88155	8,693172
8,209381	8,440185	8,410001	8,230526
8,226728	7,89324	8,309204	8,00877
8,186702	7,683614	8,224171	7,870158
8,092615	8,236462	8,451187	8,29088
7,938214	7,565092	7,97695	7,691833
7,539804	7,301876	7,655321	7,562519
7,113876	6,023623	7,628287	6,574135
8,23525	8,142609	7,835824	7,690515
7,428021	7,806221	7,557062	7,475526
7,694956	7,052001	7,145911	7,519907
7,576871	7,359911	7,835925	8,076604
7,634759	7,223626	8,21577	7,52277
7,781533	7,695718	7,702301	7,688357
6,944892	7,356275	8,325598	7,583323
7,837266	7,95241	7,508287	7,82866
7,964387	7,584388	7,787871	7,910058
6,401504	6,763742	7,840194	6,964151
7,081275	7,188422	7,045988	7,195485
7,660068	7,499054	7,871147	7,336179
3	3	3	3
7,036349	7,570391	7,046807	7,100026
7,115577	6,928928	7,309524	7,401728
6,35862	6,352858	6,727736	6,550228
6,666836	6,304167	6,758041	6,461183
7,544861	7,550766	7,825705	7,250639
7,643601	7,03559	6,819248	7,1321
7,273117	6,815272	7,226394	6,797565
6,858465	6,845048	7,284791	7,230679
7,004278	6,8268	7,000043	6,910251
7,112437	7,215664	6,755654	7,220657
7,127688	7,300117	7,053808	7,101919
6,086894	5,513098	6,106395	5,977289
6,097466	6,392574	6,24998	6,633448
7,051268	7,124015	7,615224	7,193792
6,644823	6,586114	6,561924	6,521399
6,580606	5,99815	6,44083	5,588048
5,766963	6,03619	6,26935	5,969211
6,627939	5,932829	6,507775	5,985934
7,206259	6,251565	6,172982	6,362671
6,472771	6,551743	8,132996	7,275795
4,972939	5,532487	5,746774	5,212134

6,289634	6,990831	6,150081	6,478855
6,791901	6,244203	6,826606	6,333105
3	3	3	3
6,136816	5,815286	6,034588	5,837853
6,989597	6,90464	6,478292	6,820274
6,57066	5,769968	6,653242	6,42413
6,396443	6,320499	5,978263	6,306275
7,189631	6,550387	6,286142	6,484214
7,031408	6,247458	6,066736	6,475715
6,80999	6,098678	6,040167	6,377179
6,587161	6,409155	6,576745	6,53671
3	3	5,605434	3
6,203631	6,679246	6,801733	5,75867
5,985857	6,339213	6,330211	6,276163
6,910501	6,394277	6,17719	6,407034
6,296182	5,732233	7,062544	6,405483
6,512631	6,188619	6,17612	6,501812
6,236965	6,427859	6,294753	6,163787
6,20661	5,825459	6,210292	5,819886
5,705307	6,304254	6,869607	6,298395
6,826444	6,274642	6,208844	6,487252
6,725119	5,728224	5,85396	5,87389
6,302829	6,148973	6,263186	6,289968
6,531709	6,357382	6,133123	6,221961
6,699994	5,267782	5,275726	6,225697
3	3	3	5,672679
6,486189	6,173069	5,898643	6,508152
5,801445	3	5,919382	5,941293
5,337639	3	5,838213	6,35168
6,622981	6,525265	6,770395	6,720944
5,883395	6,062017	6,299202	6,044736
5,635594	5,867185	5,403704	6,076495
5,781375	3	5,562864	3
6,940531	6,229118	5,839767	6,102845
7,061791	6,223807	5,960328	6,310034
3	3	3	3
5,771815	3	5,540205	5,685204
6,413082	5,885994	6,057628	6,231215
6,672541	6,922222	6,818371	6,454205
5,420517	5,935608	5,679791	5,583799
6,58056	5,935411	5,584738	5,811461
3	3	5,785358	3
5,541617	5,833306	5,564619	5,583686
6,576549	6,225981	6,535244	6,797448
5,585224	5,834707	5,868515	5,778491
6,632133	5,724333	5,448985	5,949468
5,347623	4,959409	5,373427	5,656807
6,633872	6,213358	6,057324	5,742458
3	3	3	3
6,74011	6,469896	6,957469	6,339372

5,270166	5,325331	5,746105	5,527024
3	3	3	5,008345
6,606671	5,951566	6,076641	5,924786
3	3	3	3
5,458109	6,054613	5,875813	5,708064
5,404304	5,175802	5,328706	5,357192
5,965032	6,113074	6,308863	6,196867
5,314057	4,963528	5,625775	5,356848
3	4,920681	6,332317	5,347018
6,052078	7,202815	5,554937	6,385714
5,486728	5,57912	5,745847	5,501908
6,292411	3	5,490997	5,644527
6,082678	6,2266	5,841979	6,173973
3	3	5,33391	5,255272
6,563006	5,979143	6,091527	6,008685
6,474449	6,687128	6,611054	6,660344
3	3	5,375846	3
6,107515	6,015988	6,467075	6,042733
6,517895	5,92555	5,566709	5,958124
5,720606	5,349685	5,646198	5,651656
3	3	4,937694	3
3	3	5,13258	5,045049
6,412057	5,602982	5,231826	5,773487
5,824497	3	3	5,586733
6,655456	5,248782	5,467815	6,09691
3	3	3	5,078964
6,167288	3	5,231061	5,519684
5,951648	5,129561	5,413367	5,644665
5,879721	5,665956	5,417073	5,657486
6,238573	3	5,507627	5,636026
5,677643	5,277059	5,341652	5,512911
3	3	3	3
5,695368	5,781001	5,727183	5,835526
6,186787	6,247679	6,307988	6,35881
5,675347	5,733895	6,326008	5,801328
6,656491	5,700461	5,327298	5,819577
5,4791	5,073168	5,661444	5,625179
3	3	5,163102	3
5,554198	3	5,482788	5,200358
5,53409	5,860164	5,4308	5,350073
6,3714	6,305867	6,477628	6,437956
6,347076	5,77852	5,2402	5,65925
5,357725	5,261691	5,275726	5,621239
6,062883	5,435399	5,608558	5,841822
3	3	5,212773	3
3	3	5,796616	3
3	3	3	4,782838
5,995157	6,081815	5,903448	6,060433
5,522731	5,277792	5,568295	5,75141
6,046729	5,576514	6,428459	5,937257

6,184095	5,528235	3	5,588485
5,88971	6,058957	5,99673	5,671811
3	3	4,966522	3
6,730879	6,936217	6,726271	6,713583
3	5,697918	6,042181	5,279461
6,109848	5,354934	5,210987	5,540054
5,863442	5,273695	5,335538	5,672827
5,2108	5,330475	5,581756	5,408359
5,897754	5,393382	3	5,578926
6,238874	5,465383	5,279576	5,468894
3	3	5,205069	3
5,767238	3	3	5,639178
3	5,725789	6,131811	6,157608
5,122609	3	4,982868	5,379269
5,644783	5,518659	5,55818	5,581312
3	3	3	3
5,82555	3	5,64366	5,805664
5,674925	3	3	5,477281
6,236638	3	3	5,246228
6,070001	3	6,152074	5,87289
3	3	6,031044	5,870357
3	3	3	3
5,879004	5,083395	5,175802	5,450726
5,912275	3	3	3
5,583357	5,840382	5,518172	5,343862
6,462802	3	3	3
5,377652	3	3	3
3	3	3	3
5,495072	3	5,271702	5,313044
5,411906	3	5,400158	5,412511
5,33013	3	3	4,891387
6,835431	5,946639	5,722132	5,839208
3	3	3	3
3	3	5,39231	3
3	5,175975	3	3
5,938089	3	3	5,296731
5,449015	3	5,086324	5,292168
5,817592	3	3	3
3	3	5,885299	6,113074
4,848503	3	5,264416	3
3	3	3	3
3	5,423639	5,369809	3
3	3	3	3
3	3	4,949605	4,814853
5,74887	3	5,008813	3
3	3	5,128755	3
5,564405	3	3	3
5,331285	3	3	3
3	3	3	3
3	3	5,969439	5,621944

5,054689	3	3	3
5,574367	3	3	3
5,471306	3	3	3
5,70541	3	4,793748	5,102811
5,154546	5,414505	5,266937	4,974138
3	3	5,406813	3
3	3	3	3
3	3	3	3
5,816115	3	3	3
5,359589	5,590318	6,311627	6,279461
3	3	5,650249	5,130141
5,813074	5,095518	3	5,164888
5,612975	3	3	5,119915
5,30963	3	5,270422	5,795386
5,417056	3	5,312389	5,365918
5,638918	5,59034	6,005137	6,081959
3	3	5,715284	3
5,169351	3	3	3
5,193431	3	5,094121	4,867515
5,359873	3	3	3
5,883968	3	3	5,386427
3	3	3	3
5,894266	3	3	3
3	3	3	3
5,629491	3	3	3
3	3	3	5,523798
5,553082	3	3	3
5,535636	5,577905	6,265101	5,519749
3	3	3	3
3	3	3	3
3	3	3	3
5,595706	5,014647	3	3
5,692953	3	5,285647	5,147058
3	3	3	3
5,406676	3	3	3
5,500058	3	4,531964	5,127299
3	3	4,701939	3
3	3	3	5,197501
3	3	3	3
3	3	4,975308	3
5,106905	3	3	3
5,618038	3	5,632082	3
3	3	4,83856	5,065542
5,720837	3	3	3
5,845154	3	5,036748	3
5,324035	3	5,198657	5,30664
3	3	5,163817	3
3	3	3	3
5,747551	3	3	5,144948
3	3	3	3

5,964618	3	3	5,217536
5,251906	3	4,892801	4,955356
3	3	3	3
3	3	3	3
3	3	3	3
3	3	3	3
3	3	3	3
5,341672	3	3	3
3	3	3	3
5,180785	5,799706	5,312304	5,309694
3	3	5,076057	5,212028
3	3	3	3
5,576191	3	3	5,131266
3	3	5,19819	5,309673
3	3	3	3
5,536571	3	3	4,961402
5,598517	3	3	3
3	3	3	3
3	3	3	3
5,570005	3	3	3
3	3	3	3
5,390688	3	3	3
3	3	3	3
3	3	3	3
5,406932	3	3	3
3	3	3	3
5,04669	3	3	3
3	3	5,103633	5,353397
3	3	3	3
3	3	3	3
6,446677	5,877832	6,188141	6,330414
3	3	3	3
3	3	3	3
5,716112	3	4,876068	3
5,53763	3	3	3
5,090364	3	3	3
3	3	3	3
3	3	3	3
3	3	3	3
3	3	3	3
3	3	3	3
3	3	3	4,889755
3	3	3	3
3	5,405329	3	3
6,04348	3	5,252513	5,491236
5,655417	3	6,041195	6,615098
3	3	4,667985	3
3	3	3	3
3	3	3	3
3	3	3	3

3	3	5,288719	3
3	3	3	4,448954
5,445012	3	3	3
5,501155	3	3	3
5,186419	3	3	3
3	3	3	3
6,171258	3	3	5,289678
3	3	4,798872	3
3	5,395483	3	5,523707
3	3	5,301507	3
5,709728	5,042181	5,284611	4,984253
5,37018	6,196397	3	5,767824
3	3	3	4,755852
4,703309	3	3	5,632255
4,77636	3	3	3
3	3	5,57115	3
3	3	3	3
5,170262	3	3	3
4,627622	3	3	3
3	3	3	3
3	3	3	4,337359
3	3	3	3
3	3	3	3
3	3	3	3
5,938935	3	3	5,463295
3	3	3	3
3	3	3	3
3	3	3	3
3	3	4,803478	3
3	3	3	3
5,626289	3	3	4,730588
3	3	3	3
3	3	3	3
5,621176	3	3	3
3	3	3	3
4,888853	3	3	3
5,398513	3	3	3
3	3	3	3
3	3	3	3,934806
3	3	5,126229	3
3	3	3	4,933204
3	3	3	3
3	3	3	3
5,006466	3	3	3
3	3	3	3
3	3	3	3
5,190135	3	3	3
3	3	3	3
3	3	4,809277	3
5,759758	3	3	3

3	3	3	3
3	3	4,688776	3
3	3	3	3
4,408562	3	3	3
3	3	3	3
3	3	3	3
3	3	3	3
3	3	4,919627	3
4,783282	4,844322	3	3
3	3	3	3
3	3	3	5,004966
5,361293	3	3	3
4,778347	3	3	3
3	3	3	3
3	3	4,611893	3
4,986185	3	3	3
3	3	3	3
4,821821	3	3	3