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Identification of microRNAs associated with allergic airway disease using a genetically diverse mouse population

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Abstract

Background: Allergic airway diseases (AADs) such as asthma are characterized in part by granulocytic airway inflammation. The gene regulatory networks that govern granulocyte recruitment are poorly understood, but evidence is accruing that microRNAs (miRNAs) play an important role. To identify miRNAs that may underlie AADs, we used two complementary approaches that leveraged the genotypic and phenotypic diversity of the Collaborative Cross (CC) mouse population. In the first approach, we sought to identify miRNA expression quantitative trait loci (eQTL) that overlap QTL for AAD-related phenotypes. Specifically, CC founder strains and incipient lines of the CC were sensitized and challenged with house dust mite allergen followed by measurement of granulocyte recruitment to the lung. Total lung RNA was isolated and miRNA was measured using arrays for CC founders and qRT-PCR for incipient CC lines.

Results: Among CC founders, 92 miRNAs were differentially expressed. We measured the expression of 40 of the most highly expressed of these 92 miRNAs in the incipient lines of the CC and identified 18 eQTL corresponding to 14 different miRNAs. Surprisingly, half of these eQTL were distal to the corresponding miRNAs, and even on different chromosomes. One of the largest-effect local miRNA eQTL was for miR-342-3p, for which we identified putative causal variants by bioinformatic analysis of the effects of single nucleotide polymorphisms on RNA structure. None of the miRNA eQTL co-localized with QTL for eosinophil or neutrophil recruitment. In the second approach, we constructed putative miRNA/mRNA regulatory networks and identified three miRNAs (miR-497, miR-351 and miR-31) as candidate master regulators of genes associated with neutrophil recruitment. Analysis of a dataset from human keratinocytes transfected with a miR-31 inhibitor revealed two target genes in common with miR-31 targets correlated with neutrophils, namely *Oxsr1* and *Nsf*.

Conclusions: miRNA expression in the allergically inflamed murine lung is regulated by genetic loci that are smaller in effect size compared to mRNA eQTL and often act in trans. Thus our results indicate that the genetic architecture of miRNA expression is different from mRNA expression. We identified three miRNAs, miR-497, miR-351 and miR-31, that are candidate master regulators of genes associated with neutrophil recruitment. Because miR-31 is expressed in airway epithelia and is predicted to target genes with known links to neutrophilic inflammation, we suggest that miR-31 is a potentially novel regulator of airway inflammation.

Keywords: Allergic inflammation, Asthma, miRNA, Expression QTL

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Background

Post-transcriptional control of gene expression is critical for the proper control of inflammation [1]. microRNA (miRNA) mediated transcript degradation and translational inhibition represent two important mechanisms of post-transcriptional control, and a large body of work demonstrates the complex role miRNAs play in fine-tuning the regulatory networks that govern inflammation and innate and adaptive immunity [2]. Allergic airway diseases (AADs) such as allergic rhinitis and asthma are characterized by aberrant adaptive immune responses to allergens that results in airway inflammation, mucus hyper-secretion, and airway hyper-responsiveness [3]. Evidence is accruing that miRNAs play a role in these diseases [4–6]. In particular, several miRNAs have been shown to regulate pathways underlying AAD pathogenesis including T-lymphocyte polarization and function [7–9], regulatory T-cell activity [10], and airway smooth muscle proliferation and contractility [11–13]. Previous studies have also identified miRNAs that are differentially expressed in airway epithelia of individuals with AAD [14–16] and in mouse models of AAD [8, 9, 17]. However, the question of whether genetic variation in miRNA expression affects AAD phenotypes has not been addressed.

We previously characterized the genetics of lung mRNA expression in a mouse model of AAD [18] using the Collaborative Cross (CC) mouse genetics reference population. The CC is a mammalian systems genetics resource comprised of recombinant inbred lines derived from eight-way crosses using five classical inbred strains (C57BL/6 J, 129S1/SvImJ, A/J, NOD/ShiLtJ, and NZO/H1LtJ) and three wild-derived inbred strains (WSB/EiJ, PWK/PhJ, and CAST/EiJ) [19, 20]. Using incipient (i.e., not yet fully inbred) CC lines, which we refer to as “pre-CC” mice, we identified more than 6,000 gene expression quantitative trait loci (eQTL), the majority of which were located near the cognate gene. We used these eQTL to identify candidate genes within QTL for inflammation phenotypes [21]. For example, we identified a locus on chromosome 7 that controls the expression of a gene that is causally related to neutrophil recruitment [22], thereby linking sequence variation, gene expression, and a downstream phenotype. Those analyses were limited to mRNAs. Thus, the role of miRNAs in this experimental system remains unknown.

To identify miRNAs that play a role in AAD, we leveraged the genotypic and phenotypic diversity of preCC mice and utilized two complementary analytical approaches. In the first approach we assessed whether regulatory variation at miRNA loci underlies variation in allergic inflammation. We identified robustly expressed miRNAs that vary by strain, mapped the genetic loci that correlate with expression levels, and then determined

whether these loci are associated with AAD phenotypes. In the second approach, we combined bioinformatic sequence analysis with statistical simulations to identify miRNAs that serve as candidate master regulators of genes altered during airway inflammation.

Methods

Our overall study design and workflow is depicted in Additional file 1: Figure S1.

Mice

We obtained 129 male preCC mice (ages 10–14 weeks) from Oak Ridge National Laboratory [21, 23, 24]. Each mouse was from an independent CC line that had undergone five to fourteen generations of inbreeding. We also obtained four male mice of each of the eight CC founder strains from The Jackson Laboratory. All mice were singly housed, with alpha-dri bedding, under normal 12-h light/dark cycles. All experiments conducted with mice in this study were compliant with an Institutional Animal Care and Use Committee protocol at an animal facility approved accredited by the Association for Assessment and Accreditation of Laboratory Animal Care International.

Phenotyping protocol

We employed a house dust mite (HDM) model of AAD that produces hallmark disease phenotypes including T_H2 -biased airway inflammation, elevated serum IgE, mucous cell metaplasia, and airway hyper-responsiveness in a strain-dependent fashion [18]. Mice were sensitized with 10 μ g of the immunodominant allergen from the *Dermaphagoides pteronyssinus* species of HDM, Der p 1, by intra-peritoneal injection on days 0 and 7, followed by challenge with 50 μ g of Der p 1, administered by oropharyngeal aspiration, on day 14. On day 17, mice were euthanized, followed by collection of whole lung lavage fluid with two successive volumes of 0.5 and 1.0 ml PBS. No perfusion was performed, so vascular contents were still present in the lungs. Following lavage, lung tissue was snap frozen. Cells in lavage fluid were isolated by centrifugation; eosinophil and neutrophil counts were then manually determined using cytopins and morphologic criteria.

miRNA expression analysis

For the eight CC founder strains ($n = 4$ /strain), we isolated total lung RNA by Trizol extraction. RNA quality was assessed using an Agilent Bioanalyzer. With one exception, all samples had RNA integrity numbers greater than 7. RNA samples were then processed and hybridized to Affymetrix miRNA 2.0 arrays (GSE63954). We limited our analysis to the 723 probe sets on the array that are specific to mouse miRNAs. Manual inspection of results from principle component analysis of miRNA

expression revealed that two samples were outliers (one A/J and one NZO/H1LtJ sample); these two samples were removed prior to subsequent analyses. We used an ANOVA model to identify miRNAs that were differentially expressed by strain at a false discovery rate (FDR) q -value < 0.05 . We further filtered this list of miRNAs to those that were highly expressed, which we defined as within the top 20th percentile of miRNA expression in any one CC founder strain, and those that varied by at least 1.5-fold between the highest and lowest-expressing strains. This limited the list to 38 miRNAs. We also selected one miRNA, miR-17* (now known as miR-17-3p), as a reference miRNA for normalization in experiments with preCC mice. miR-17* was selected because its expression was near the mean of all miRNAs that met our selection criteria (mean of all miRNAs = 7.3; mean of miR-17* = 7.1) and it was not differentially expressed by strain ($p = 0.89$).

From these ANOVA models described above, we estimated broad-sense heritability (H^2) by calculating the interclass correlation (r_1) and the coefficient of genetic determination (g^2) [25]:

$$r_1 = (\text{MSB} - \text{MSW}) / (\text{MSB} + (n-1)\text{MSW})$$

where MSB and MSW are the mean squares between and within, respectively, from the eight-way ANOVA model described above and n is the number of mice per strain. g^2 is a slightly modified estimate of heritability that accounts for the doubling of the additive genetic variance with inbreeding and is calculated as:

$$g^2 = (\text{MSB} - \text{MSW}) / (\text{MSB} + (2n-1)\text{MSW})$$

For the preCC mice, the same RNA isolation protocol was used. We then used Exiqon locked nucleic acid (LNA)-based qRT-PCR assays for each of the 38 miRNAs, except miR-805 (because an assay was not available from Exiqon). We added miR-148b and miR-182 due to published evidence indicating roles in asthma or allergic inflammation in the lung [10, 26], and miR-17* and U6 for normalization. Thus in total we measured the expression of 40 miRNAs and one snRNA (U6). Since the time of ordering the Exiqon LNA qRT-PCR assays, three of the measured miRNAs have had name changes: miR-17* is now miR-17-3p; miR-193* is now miR-193-5p; and miR-322* is now miR-322-3p. We maintained the old nomenclature throughout the manuscript since that is consistent with Exiqon product information at the time of ordering. Exiqon miRCURY LNA Universal RT was used to generate cDNA, after which miRNA-specific primers were used to amplify each miRNA. For each miRNA for each mouse, we calculated the delta Ct relative to miR-17*. Across all samples and miRNAs, the delta Ct relative to miR-17* and U6 snRNA (another commonly used control for normalization) were highly

correlated (Pearson $r = 0.81$, $p < 5 \times 10^{-16}$). qPCR data is provided as Additional file 2.

eQTL approach

Genotyping and eQTL mapping

We genotyped each mouse at the University of North Carolina at Chapel Hill, using one of two Affymetrix SNP arrays (A or B) that were produced during the development of the Mouse Diversity array (MDA) [27]. After removing uninformative and poorly performing SNPs, these arrays contained 181,752 (A-array) and 180,976 (B-array) SNP assays, and the set of SNPs on each array did not overlap. Most mice (83 %) were genotyped on the B-array and the remaining were genotyped on the A-array. These training arrays were annotated to NCBI Build 36 of the mouse genome, but we mapped QTL boundaries to Build 37 positions to integrate with other resources. We report NCBI Build 37 positions in our results. We estimated the most probable ancestor for each SNP in each mouse using the GAIN algorithm [28], and reconstructed founder haplotypes based on these results. We then merged the non-overlapping SNP datasets from arrays A and B by imputing unobserved genotypes based on inferred founder haplotype. For QTL mapping, we used HAPPY [29] to infer ancestry matrices for an additive genetic model. For computational efficiency, we then averaged the matrices across SNPs between which GAIN inferred no recombination in the population, and this reduced the mapping dataset to 27,059 intervals. Genotype data are provided as Additional file 3. We used BAGPIPE [30] to fit a regression model and calculate LOD scores. Significance thresholds were determined by permutation ($n = 250$ permutations per miRNA), and we used the 1.5 LOD drop method to approximate confidence intervals for QTL [31]. We defined local eQTL as eQTL located within 10 Mb of the cognate gene based on prior work on mRNA eQTL [21]. Narrow sense heritability (h^2) for eQTL was estimated by regression of miRNA expression on CC founder haplotype probabilities. For example, the expression of a given miRNA Y is

$$\begin{aligned} Y = & \text{intercept} + B_1(\text{C57BL/6J}) + B_2(\text{129S1/SvImJ}) \\ & + B_3(\text{NOD/ShiLtJ}) + B_4(\text{NZO/H1LtJ}) \\ & + B_5(\text{PWK/PhJ}) + B_6(\text{CAST/EiJ}) \\ & + B_7(\text{WSB/EiJ}) + \text{error} \end{aligned}$$

where each strain term represents the estimated number of that strain's haplotypes present at the QTL for a given mouse (this estimate being the posterior expectation derived from the probabilistic haplotype reconstruction using HAPPY [29]), and where A/J is designated as the reference strain. We used the model R^2 to describe the percent of phenotypic variation accounted for by the locus.

Identification of regions of shared ancestry and phylogenetic analysis

We used a comparative genomic approach to narrow QTL regions and identify candidate genes, as described previously [24]. Using the allele effect plots as a guide, we grouped founder alleles into two groups by effect (e.g., high vs. low allele effect). We divided the two groups based on the greatest difference between ordered allele effects estimated at the QTL peak. We then used the Collaborative Cross Viewer at the University of North Carolina [20, 32] and genome sequences from the Wellcome Trust Sanger mouse genomes project (MGP) [33, 34] to identify regions in the confidence interval in which grouped strains have shared SNP genotypes. Positions identified as heterozygous and low confidence genotype calls were omitted from the analysis.

Analysis of the effects of SNPs on pre-miRNA structure

To examine the consequences of SNPs on miRNA structure, we used two computational approaches. First, we used RNAfold [35] to compare the predicted structures of pre-miR-342 based on the reference allele (C57BL/6J) to a *musculus*-derived allele (shared by the NOD/ShiLtJ and PWK/PhJ strains) containing two SNPs (rs264778660 and rs242689107) and one indel (rs261236356) that fall within the precursor. Second, we used SNPfold [36] to formally test whether either SNP affects the ensemble of predicted RNA structures.

Bioinformatic/Statistical approach to identify putative miRNA-mRNA regulatory networks

To construct putative miRNA-mRNA regulatory networks, we utilized a multistep procedure outlined in green in Additional file 1: Figure S1. We first identified mRNA transcripts linearly (positively or negatively) correlated at an FDR < 0.1 with log-transformed eosinophil or neutrophil counts that were previously quantified [21, 22]. We refer to these as called quantitative trait transcripts [37]. Second, we identified quantitative trait miRNAs, which we defined as miRNAs that were linearly correlated with inflammation phenotypes at an FDR < 0.1. For each phenotype (eosinophil or neutrophil counts), we paired positive quantitative trait transcripts with negative quantitative trait miRNAs and vice-versa. We then used a Monte Carlo simulation strategy called miRhub [38, 39] to identify the miRNAs that may act as regulatory hubs for a given set of oppositely correlated quantitative trait transcripts. miRhub identifies miRNAs that are predicted to regulate a target gene list/network more than expected by chance. To accomplish this the algorithm utilizes the following inputs: (1) the strength and clustering of miRNA target sites in the gene set (as predicted by the TargetScan algorithm [40]), these predicted interactions can be filtered to require a

minimum level of conservation across species - we specified conservation between mouse and one other species (rat, human, or chicken); (2) the centrality of target genes in a network, which is based on high confidence protein-protein interactions listed in the STRING 9.0 database (<http://string-db.org/>) - we did not employ this feature; and (3) the expected range of targeting scores in random gene lists/networks ($n = 1000$). Empirical p-values are generated based on the comparison of the observed distribution of target scores to the distribution found in the random gene networks, and are adjusted for multiple comparisons using a false discovery rate.

Results

As outlined in Additional file 1: Figure S1, we used two complementary approaches to identify miRNAs that may be associated with AAD, one based explicitly on genetically determined variation in miRNA expression ("eQTL approach" shown in blue), and one that does not rely on genetic diversity per se but rather combined bioinformatics and statistical analyses to construct putative miRNA-mRNA regulatory networks ("bioinformatics/statistical approach" shown in green). We begin with results from our survey of miRNA expression in CC founder strains, followed results from the eQTL and bioinformatics/statistical approaches, respectively.

Detection of differentially expressed miRNAs in the lungs of CC founder strains

We measured the expression of 723 miRNAs in whole lung RNA samples from the eight CC founder strains ($n = 3-4$ /strain) using microarrays (Methods). We identified 92 that were differentially expressed by strain at an FDR < 0.05 (Additional file 4: Table S1), 38 of which were identified as highly expressed in at least one strain (Methods, Additional file 5: Table S2). Hierarchical clustering of these 38 miRNAs clearly demonstrated the effect of strain (Fig. 1) and the sample clustering was consistent with the known phylogenetic relationships among these strains [41]. We estimated the broad sense heritability (H^2) for miRNA expression (Additional file 5: Table S2); H^2 values ranged from 0.28 for miR-200a to 0.94 for miR-342-3p.

To ensure that these results were not false positives due to altered hybridization between array probes and genetic variants, we mapped probesets of differentially expressed miRNAs to genetic variants contained in the Sanger Mouse Genomes Project data [33, 34]. Three probesets aligned to regions that contain structural variants among CC founder strains (miR-148b, miR-192, and miR-194), but the observed patterns of expression were not correlated with the strain distribution of structural variants. Thus we conclude that the variation in miRNA expression is not biased by the array platform we used.

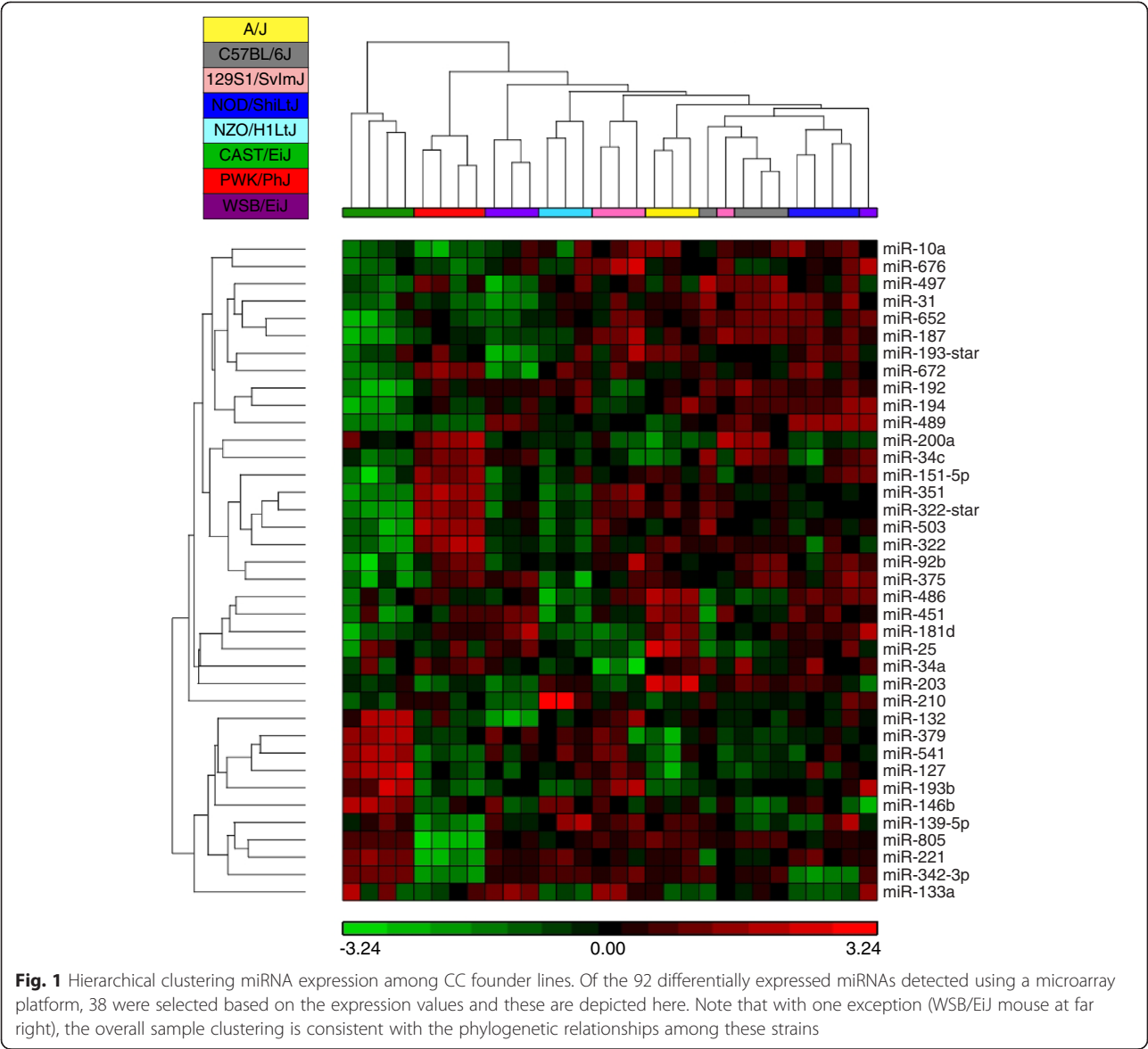


Fig. 1 Hierarchical clustering miRNA expression among CC founder lines. Of the 92 differentially expressed miRNAs detected using a microarray platform, 38 were selected based on the expression values and these are depicted here. Note that with one exception (WSB/EiJ mouse at far right), the overall sample clustering is consistent with the phylogenetic relationships among these strains

eQTL Approach

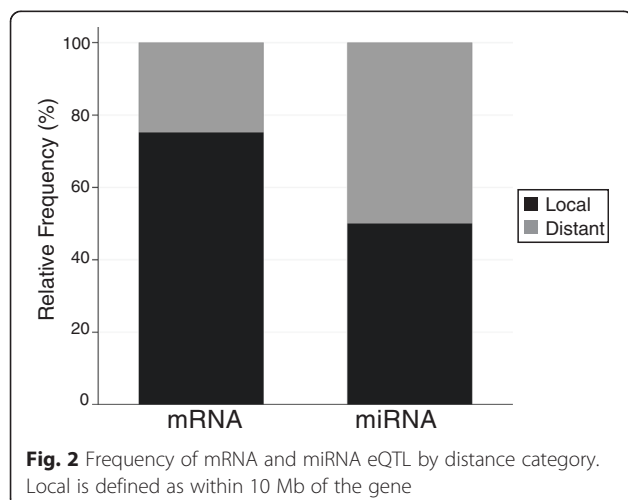
We then measured the expression of 37 out of 38 of these miRNAs (Methods), as well as miR-148b and miR-182 due to published evidence indicating roles for these miRNAs in asthma or allergic inflammation in the lung [10, 26], in 129 preCC lines using Exiqon LNA-based qRT-PCR assays. We observed a broad range of expression for many miRNAs (Additional file 1: Figure S2). We note in particular the bi-modal distributions for two miRNAs, miR-133 and miR-489, suggesting a single, large-effect eQTL for each. Next we performed genome-wide scans for each miRNA to identify miRNA eQTL. In total, we identified 18 high-confidence eQTL (at $p_{\text{adjusted}} < 0.05$) corresponding to 14 different miRNAs, and an additional eight potential eQTL (at $p_{\text{adjusted}} < 0.10$) for seven more miRNAs (Table 1). This equates to high-confidence eQTL for 38 % of the miRNAs

that were differentially and highly expressed among the founder strains (and 35 % of the total number of miRNAs studied), though surprisingly miR-133 was not one of them. Of the high-confidence eQTL, nine were located near the miRNA gene itself (within 10 Mb), which we refer to as local eQTL [21], while nine were located distal to the miRNA gene, including on other chromosomes. These results differ from our previous studies of protein coding gene eQTL, which revealed predominately (~75 %) large-effect, local eQTL (Fig. 2) [21]. We categorized the miRNA eQTL in terms of their effect size and location in the genome. Two eQTL, for miR-489 and miR-342-3p, stood out in terms of effect size. Not surprisingly, expression of these two miRNAs also showed the highest heritability in CC founder lines (Additional file 5: Table S2). We confirmed that for both

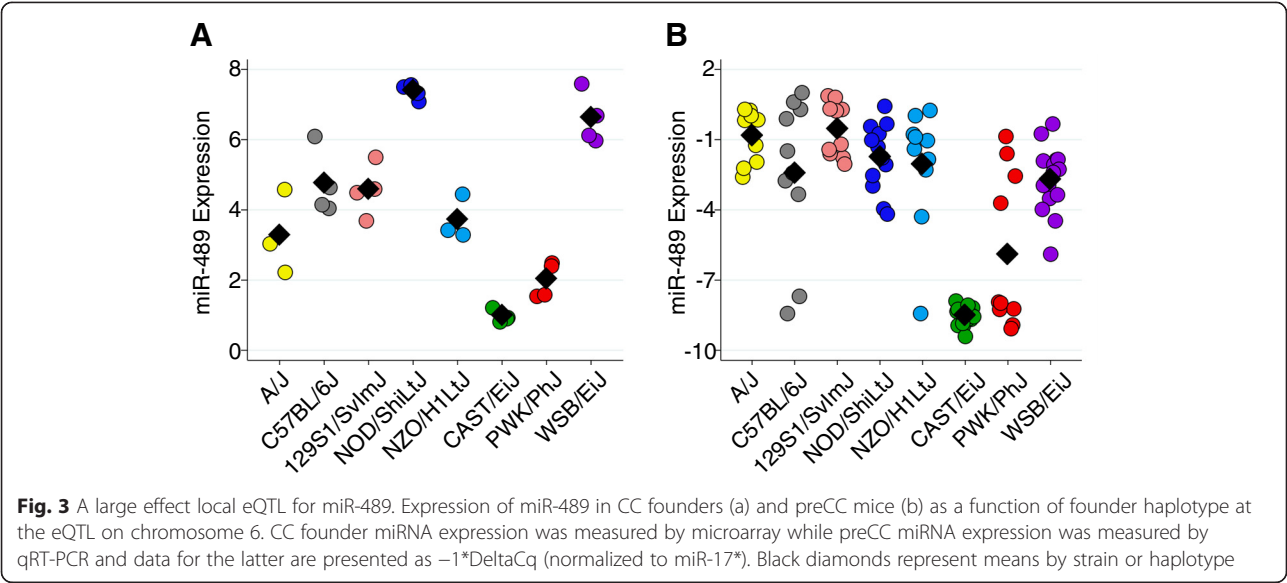
Table 1 miRNA eQTL

miRNA	p value threshold	LOD	Chr	peak (bp)	Start (bp)	End (bp)
miR-139-5p	0.05	7.23	16	75704393	66282944	78490921
miR-146b	0.05	10.72	19	45318029	44272094	48072092
miR-181d	0.05	12.39	8	86984259	83331794	88394118
miR-187	0.05	7.53	18	24437090	17391307	25992115
miR-203	0.05	10.20	12	113443612	109075713	115064141
miR-221	0.05	7.23	X	11875846	6743622	19481467
miR-25	0.05	7.73	2	29331785	19850261	33013357
miR-322	0.05	8.44	11	111672727	109872770	113662465
miR-322	0.05	7.99	X	49213981	46393688	72375891
miR-322*	0.05	7.29	11	111689383	109944727	112970648
miR-342-3p	0.05	45.72	12	109161374	108668025	110004769
miR-351	0.05	7.79	7	111699531	104065978	117022949
miR-351	0.05	7.43	X	92256284	72656435	97587740
miR-451	0.05	10.18	9	108231334	106496149	111607827
miR-486	0.05	8.08	9	107619856	105998212	111638630
miR-489	0.05	25.31	6	3360097	3183618	5399987
miR-503	0.05	7.39	11	110853290	109531467	112735746
miR-503	0.05	7.18	X	55318092	49106938	70590355
miR-148b	0.1	6.66	2	42420095	34807751	50632983
miR-210	0.1	6.62	6	3259542	3001551	13855894
miR-322*	0.1	6.69	7	102716364	86631134	117203425
miR-322*	0.1	6.75	X	55058589	49106938	70017706
miR-34a	0.1	6.73	1	13531834	3036178	30553568
miR-34c	0.1	6.76	13	99709138	94236515	102155480
miR-351	0.1	6.68	11	110853290	106160019	112970648
miR-497	0.1	6.76	11	110106556	106863427	112735746

Bold denotes eQTL located within 10 Mb of the miRNA locus (i.e., local eQTL). Start and end positions (bp) in the Table headings correspond to eQTL confidence intervals

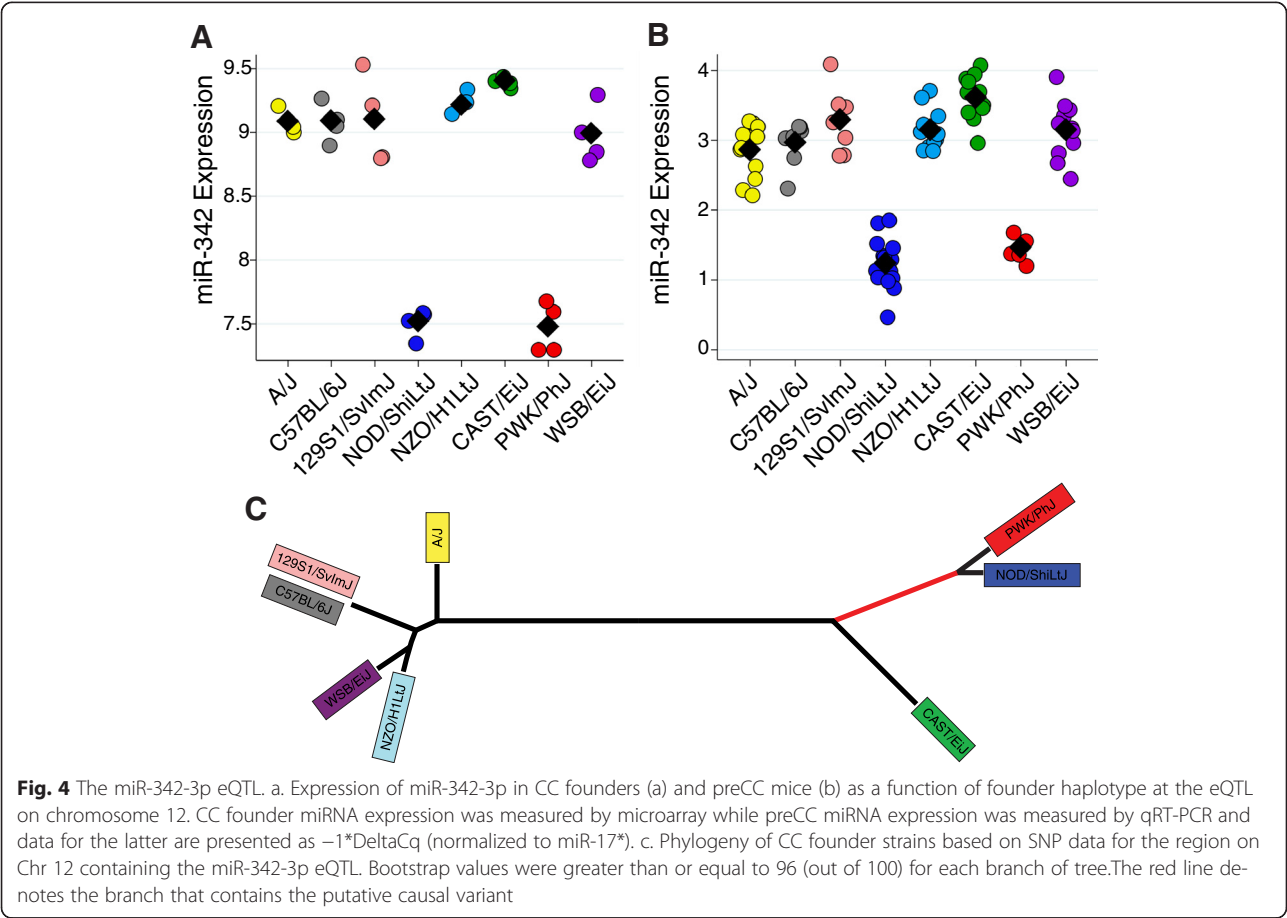


miRNAs the expression levels among preCC mice with a specific CC founder haplotype at the eQTL were concordant with expression levels in the CC founder strain (Figs. 3 and 4). We calculated the narrow sense heritability (h^2) to be 0.60 and 0.84 for the miR-489 and miR-342-3p eQTL, respectively. Taken together, these results indicate that *cis*-regulatory elements at the respective eQTL are the primary determinants of miR-489 and miR-342-3p expression in the lung. However, we note that miR-489 expression in CC founders suggests three distinct groups (high expression group composed of NOD/ShiLtJ and WSB/Eij; medium expression group composed of A/J, C57BL/6J, 129S1SvImJ, and NZO/H1LtJ; and low expression group composed of CAST/Eij and PWK/PhJ), but the allele effects for the eQTL on chromosome (Chr) 6 indicates that this eQTL only explains the differences between CAST/Eij and PWK/PhJ vs. the other six CC founders. Thus it appears that one or more additional loci likely contribute to miR-489 expression; but we did not



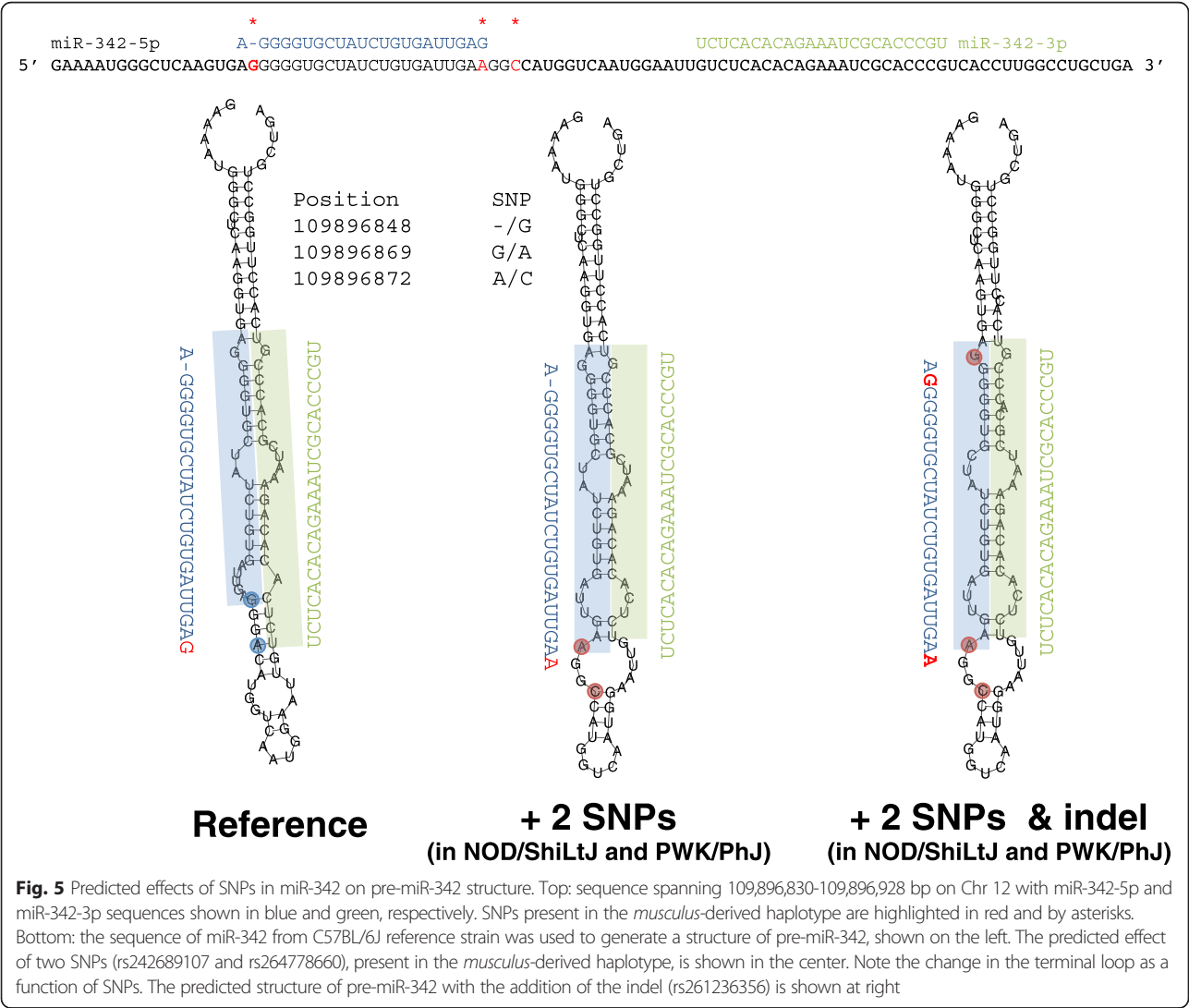
identify other eQTL (local or distant) using genome scans in which we conditioned on the Chr 6 eQTL.

The allele effects for miR-342-3p indicated that the NOD/ShiLtJ and PWK/PhJ alleles were similar in terms of their effect on miRNA expression (Fig. 4b). Using publically available array-based genotype and haplotype data from the CC founder strains [20, 32], we found that, like the *musculus* strain PWK/PhJ, the NOD/ShiLtJ founder strain has a *musculus*-derived haplotype in the QTL confidence interval (Chr 12: 108,668,025-110,004,769 bp). We confirmed that



these two strains share a haplotype in this region using more complete single nucleotide polymorphism (SNP) data from the Sanger Mouse Genomes Project [33] (Fig. 4c). This finding facilitated the identification of putative causal variants descended from the *musculus* sub-species that are shared by NOD/ShiLtJ and PWK/PhJ and are different from all other founder strains. We identified 938 SNPs in the region that met these criteria, the majority of which were located in or near 11 genes (defined as +/- 5 kb from the gene), including 20 SNPs in or near the miR-342 locus. Two SNPs (rs264778660 and rs242689107) and one indel (rs261236356) were in the miR-342 precursor (pre-miR-342) and thus were considered strong candidate causal variants for the eQTL because the stem-loop structure of the precursor is critical for miRNA maturation and expression. The RNAfold algorithm [35] predicted an allele-dependent effect for both SNPs (but not the indel) on the terminal loop of the pre-miR-342

stem-loop structure (Fig. 5). Subsequent analysis using SNPfold [36] provided further *in silico* evidence that rs264778660 significantly alters the conformation of pre-miR-342 ($p = 0.01$, Additional file 1: Figure S3). These results suggest that at least rs264778660 is likely to cause a change in pre-miR-342 structure, which in turn may alter processing by Dicer and Drosha, and consequently affect expression of both miR-342-3p and miR-342-5p. Indeed, among CC founder strains, we found a strong correlation between miR-342-3p and miR-342-5p expression, with NOD/ShiLtJ and PWK/PhJ strains having low expression for both arms of miR-342 (Additional file 1: Figure S4). We noted that indel (rs261236356) is predicted to cause a change in the seed sequence of miR-342-5p (Fig. 5), potentially altering the relationship between this miRNA and target genes. We did not measure the expression of miR-342-5p in the preCC because its expression levels were very low.



Seven other miRNAs had local eQTL: miR-146b, miR-181d, miR-187, miR-203, miR-221, miR-322, and miR-503. The allele effects for these eQTL are shown in Additional file 1: Figure S5. Some miRNAs had both local and distant eQTL. For example, miR-322 and miR-503 each had one local eQTL (on Chr X) and one trans-eQTL on Chr 11. We built regression models for these two miRNAs and found that these two loci accounted for 44 % and 37 % of variation in miR-322 and miR-503 expression, respectively.

The trans-eQTL locus shared by miR-322 and miR-503 was also weakly associated with the expression of miR-351 and miR-497 ($p_{\text{adjusted}} < 0.1$). We found that each pairwise comparison of miRNA expression for all four miRNAs was highly significant (Additional file 6: Table S3) and that the allele effects for all four of these trans-eQTL were consistent (Fig. 6). This suggests that a single variant mediates allele-specific trans-regulation of the expression of all four miRNAs. miRNA expression in mice with the 129S1/SvImJ allele was significantly different from all other strains with the exception of WSB/EiJ ($p < 0.05$ by Tukey's honestly significant difference test),

indicating the 129S1/SvImJ allele is functionally distinct from most other CC founder strains. This region contains 100 genes and we looked for SNPs for which the 129S1/SvImJ strain is distinct from all other CC founders excluding WSB/EiJ and identified 212 SNPs in 20 genes that met this criterion: *A830035A12Rik*, *Abca6*, *Amz2*, *C330019F10Rik*, *Cacng1*, *Cacng5*, *Ccdc46*, *Gm11650*, *Gm11655*, *Gm11674*, *Gm11677*, *Gm11678*, *Gm11680*, *Gm11681*, *Gm11714*, *Gna13*, *Helz*, *Prkca*, *Smurf2*, and *Tex2* (Additional file 7: Table S4). These genes represent causal candidates for the miRNA trans-eQTL. We identified a second set of trans-eQTL on Chr 9 at ~107-108 Mb for miR-486 and miR-451, but the allele effects for these eQTL were not completely consistent (Additional file 1: Figure S6), thus we cannot conclude that these two trans-eQTL are one and the same.

The relationship between miRNAs and inflammation phenotypes

Genetic variation in a miRNA has been linked to disease phenotypes [42–45]. We asked whether the miRNA

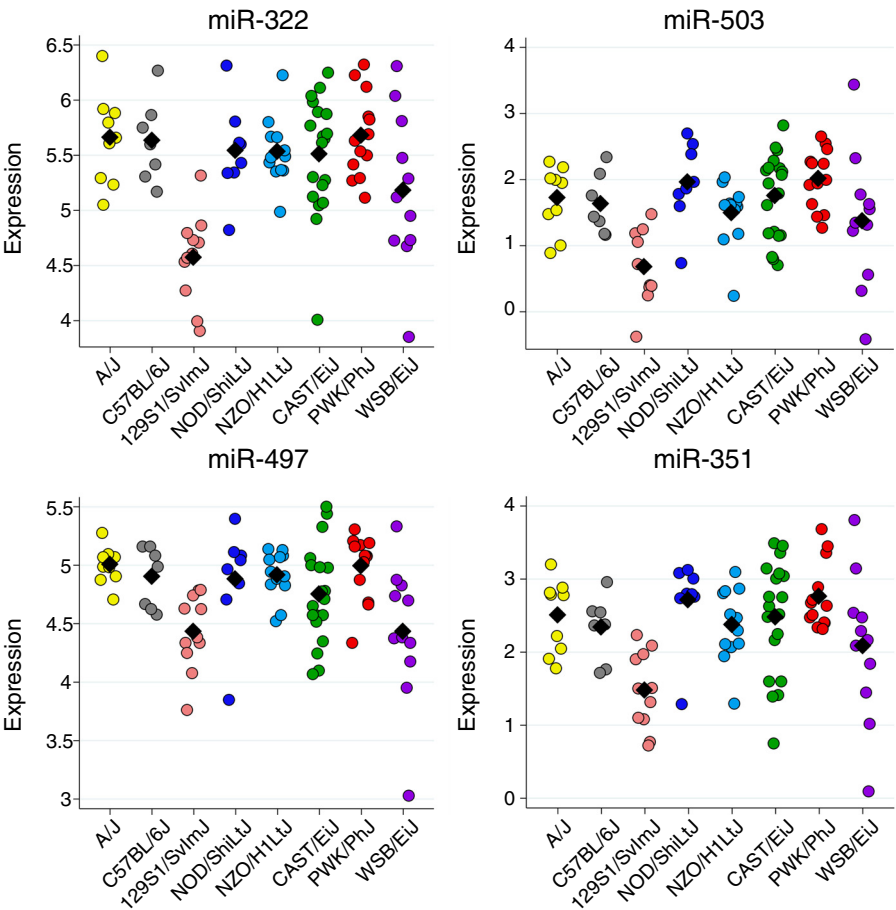


Fig. 6 A miRNA trans-eQTL cluster on Chr 11. Allele effects for each miRNA eQTL are shown. Expression derived from the 129S1/SvImJ allele is significantly different from other CC founder strains except WSB/EiJ

eQTL we discovered underlie QTL we previously identified for two phenotypes: eosinophil and neutrophil recruitment responses to allergen sensitization and challenge. No miRNA eQTL co-localized with the eosinophil QTL (Chr 11:71.8-87.1 Mb [21]) or neutrophil QTL (Chr 2:79.8–98.0 Mb and Chr 4:3.3–10.0 Mb [22]).

Bioinformatic/Statistical approach to identify putative miRNA-mRNA regulatory networks

As shown in Additional file 1: Figure S1, we used a complementary approach to ask whether any miRNAs were candidate master regulators of genes altered during airway inflammation. We first identified miRNAs whose expression levels were linearly correlated with eosinophils and neutrophils. At an FDR < 0.1, thirteen and nineteen miRNAs were correlated, respectively. The vast majority was negatively correlated (Additional file 8: Table S5). We then used the miRHub algorithm (Methods), which determines whether the predicted regulatory effect of any given miRNA on a specific set of genes is significantly greater than expected by chance (i.e., acts as a “regulatory hub”), to predict whether any of these miRNAs are candidate drivers of the gene expression profiles associated with the phenotypes of interest. For the set of genes that were positively correlated with neutrophils ($n = 674$ at FDR < 0.1), we identified miR-497, miR-351 and miR-31 as candidate regulatory hubs (Fig. 7). No miRNA hubs were identified for the sets of genes positively ($n = 1802$) or negatively ($n = 1605$) associated with eosinophils (Additional file 1: Figure S7). These results indicate that miR-497, miR-351 and miR-31 may serve as mediators of neutrophilic inflammation by targeting genes that regulate neutrophil recruitment to the airways; predicted targets of each miRNA are listed in Additional file 9: Table S6.

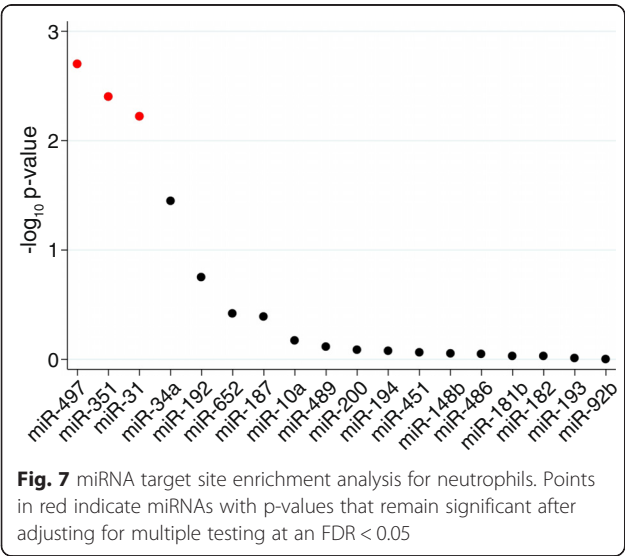


Fig. 7 miRNA target site enrichment analysis for neutrophils. Points in red indicate miRNAs with p-values that remain significant after adjusting for multiple testing at an FDR < 0.05

miR-31 has been previously reported as a marker and/or regulator of other inflammatory conditions, such as inflammatory bowel disease [46] and psoriasis [47]. In a previously published dataset of gene expression from human keratinocytes transfected with a miR-31 inhibitor, 96 genes were up-regulated, and of these, 24 were predicted targets of miR-31 [47]. We found that the mouse orthologs of two of these genes, *Oxsr1* and *Nsf*, were also present in our list of predicted miR-31 targets correlated with neutrophils, resulting in statistically significant enrichment ($p = 4 \times 10^{-3}$ by hyper-geometric test). While an overlap of two genes is not large, it is appreciable given the differences in cell types, species, and disease processes examined. We also found that the expression of *Oxsr1* and *Nsf* was negatively correlated with miR-31 expression ($r = -0.26$, $p = 2.0 \times 10^{-3}$ and $r = -0.23$, $p = 8.7 \times 10^{-3}$, respectively). Thus we conclude that miR-31 is likely to be an important modulator of neutrophilic airway inflammation in part by targeting *Oxsr1* and *Nsf*.

Discussion

We examined whether regulatory variation at miRNA loci underlies variation in response to allergen sensitization and challenge using a genetically diverse population of mice. The phenotypic variation across these mice enabled the identification of eQTL for 14 out of the 40 miRNAs (35 %) that we studied, as well as suggestive eQTL for an additional seven miRNAs. We characterized these eQTL in terms of effect size and location relative to the miRNA gene and found that we could explain a large fraction of the total variation in expression for several miRNAs using eQTL. Some miRNAs exhibited appreciable heritability estimates based on gene expression in the CC founder strains, but did not have detectable eQTL in the preCC population (e.g., miR-133). One possible explanation is that variation in expression is due to epistasis among two or more loci that lack sizeable individual effects. Due to the limited power afforded by the sample size of our study, we did not test for epistatic eQTL. Additionally, due to the fact that the qRT-PCR system we used was developed by a company and the primer sequences are proprietary, we cannot rule out the possibility that false negative and/or false positive eQTL we detected in the preCC mice are due to SNPs (or other types of genetic variants) that could affect the measurement of miRNA expression.

In the case of miR-342-3p, we were able to identify highly plausible candidate causal variants using a combination of sequence data and structural modeling. We found that a SNP (rs264778660) located in the miRNA precursor is likely to alter the terminal loop of the pre-miR-342 structure, which in turn may alter processing and maturation of miR-342-3p. Liu et al. have shown that the terminal loop of a pre-miRNA affects processing by Dicer [48]. We suggest that rs264778660 affects the

maturation and expression of miR-342-3p, providing a plausible explanation for why preCC mice with haplotypes at this locus matching that of NOD/ShiLtJ and PWK/PhJ have lower expression levels. This hypothesis merits further experimental investigation.

Out of all the other miRNAs we studied, very few had variants located in the precursor sequence and none had sequence variants located in seed regions (except for miR-342-5p which was measured in the CC founder lines but not in the preCC population). This is consistent with other population genetic studies, which have concluded that evolutionary pressures have preserved regulatory networks involving miRNAs by selecting against mutations that cause changes in miRNA targeting [49, 50].

One of the interesting results from our eQTL analysis was that distal or trans-eQTL were quite common for miRNAs. This contrasts with typical results for mRNA eQTL, including our own findings in the same set of samples [21], where local eQTL constitute the majority. Our findings are similar to those recently reported for miRNA eQTL in human peripheral blood, where miRNA eQTL were often located far upstream from the miRNA itself [51]. In one case, we identified four miRNAs whose expression was regulated by a single locus on Chr 11. Of the ~20 candidate genes in the region, *Prkca*, which encodes Protein Kinase C- α , is a plausible candidate because it is a well-known regulator of immune responses in the lung [52] and therefore may regulate pathways that in turn affect miRNA expression.

Trans-eQTL were also more common than local eQTL in a previous miRNA eQTL mapping study involving an F2-intercross with diabetes resistant and susceptible strains (C57BL/6J and BTBR, respectively, each containing two mutant alleles of the leptin gene) [53]. In that study, the authors measured the expression of 220 miRNAs in adipose tissue in 290 F2 mice and identified eQTL for 21 of them (i.e., ~10 % of miRNAs), three of which were local or cis-eQTL. Thus, in comparison, we identified more eQTL (in terms of number of eQTL relative to the number measured) and a larger proportion of local eQTL. It is likely that this can be attributed to the greater genetic diversity present in the CC founder strains versus the two founder strains used in that F2 mapping study. Five miRNAs or miRNA family members were measured in that study and were also a part of this study, namely miR-31, miR-34c, miR-148a, miR-181, and miR-451. We detected a similar local eQTL for miR-181 but there was no overlap in eQTL for the other miRNAs. These differences could be explained at least in part by different regulatory elements responsible for controlling miRNA expression in different tissues (adipose vs. lung) and in response to different perturbations (*ob* transgene/diet vs. allergen). In aggregate, our results and those of Zhao et al. [53] suggest that miRNA expression levels in mice are more strongly dependent on genetic variation at distal loci than mRNAs.

Additionally, the LOD scores for local miRNA eQTL were, on average, lower in magnitude than those for local mRNA eQTL we previously identified. Hence local eQTL account for a smaller proportion of miRNA expression variation than local mRNA eQTL. This too is consistent with results from a recent human miRNA eQTL study in which local eQTL accounted for ~1 % of variation in miRNA expression compared to 30-50 % for mRNA eQTL [51]. Our results indicate that the genetic architecture of miRNA expression is clearly different from mRNA expression, likely involving more loci with additive or perhaps even multiplicative effects. As such, it is perhaps not surprising that we did not identify a miRNA eQTL that underlies variation in allergic inflammation in our model of asthma. For a single miRNA eQTL to underlie a trait QTL, the miRNA eQTL must have a large effect on miRNA expression and be causally linked to the trait. While we identified miRNAs that are correlated with inflammation phenotypes, none of these miRNAs had a single major effect eQTL that explains the resulting variation in inflammation. However, additive or multiplicative effects across miRNA eQTL may explain a greater proportion of the variation in inflammation. More complex statistical models will be required to characterize the effects of multiple loci, and this will inherently require greater statistical power.

The bioinformatic analysis we conducted to identify miRNAs that may act as key regulators of genes involved in granulocyte (eosinophil and neutrophil) recruitment pointed to three miRNAs of interest for neutrophils, namely miR-497, miR-351 and miR-31. Of these, miR-31 is potentially the most promising based on prior work demonstrating that miR-31 is highly expressed in airway epithelia [54], and in skin epithelia regulates the expression of pro-inflammatory chemokines by targeting genes that regulate NF- κ B activity [47]. Additionally, miR-31 is not highly expressed in neutrophils at baseline or after bacterial challenge [55], suggesting that miR-31 is not simply a surrogate metric of neutrophil counts. Based on our finding of significant enrichment of predicted miR-31 targets in our data compared to dataset from human keratinocytes in which miR-31 was inhibited [47], we suggest that two genes, *Oxsr1* and *Nsf*, may be novel regulators of neutrophilic inflammation in the airway. NSF (N-ethylmaleimide-sensitive factor) is a cytoplasmic ATPase that plays an important role in the exocytosis of inflammatory mediators by disassembling the soluble-N-ethylmaleimide-sensitive-factor accessory-protein receptor (SNARE) complex after exocytosis [56]. Using a mouse model of peritonitis, Morrell et al. showed that inhibition of NSF resulted in diminished neutrophil recruitment to the peritoneum [57]. Given these data, one simple hypothesis is that NSF in airway epithelium regulates the release of a

chemokine involved in neutrophil recruitment, and this pathway is targeted by miR-31.

Our results also indicate that other genes with established relationships to neutrophil recruitment are predicted target genes of miR-31. We note three genes in particular: *Ccr2*, a chemokine receptor linked to monocyte and neutrophil recruitment to the lung and other organs [58–60], *Tnfr1* (*Abin1*), which is involved in toll-like receptor mediated innate immune responses [61], and *Unc93b1*, a gene involved in antigen presentation by dendritic cells [62]. In combination with prior work in human airway and skin epithelia, our result suggests that miR-31 may be targeting genes both in the airway epithelia and in white blood cells (neutrophils, monocytes, and dendritic cells), and provide rationale for additional studies on the role of miR-31 in neutrophilic airway inflammation. We note that many previous studies have documented an important role for miR-31 in multiple cancer processes [63]; thus our findings suggest that miR-31 is microRNA with pleiotropic effects.

Conclusion

miRNA expression in the allergically inflamed murine lung is regulated by genetic loci that are smaller in effect size compared to mRNA eQTL and often act in trans. Thus our results indicate that the genetic architecture of miRNA expression is different from mRNA expression. We identified three miRNAs, miR-497, miR-351 and miR-31, that are candidate master regulators of genes associated with neutrophil recruitment. Because miR-31 is expressed in airway epithelia and is predicted to target genes with known links to neutrophilic inflammation, we suggest that miR-31 is a potentially novel regulator of airway inflammation.

Availability of supporting data

Data for array-based expression of miRNAs in Collaborative Cross founder strains is provided in NCBI's Gene Expression Omnibus: <http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE63954>. Genotype data for preCC mice and qPCR-based measurement of miRNAs in preCC mice are provided as supporting data (Additional Files 2 and 3, respectively).

Additional files

Additional file 1: Figure S1. Overall study design and workflow. * See Discussion section for a discussion of possible reasons for lack of co-localization. ** See reference 38 for details about this analytical method. **Figure S2.** Distributions of miRNA expression. Data are expressed as Delta Ct vs. U6 snRNA. Note that miR-17* star showed relatively little variation and its mean expression was comparable to the majority of other miRNAs measured; thus it was used as for normalization in subsequent analyses. **Figure S3.** Predicted effects of SNPs in miR-342-3p on miR-342 structure as determined by SNPfold. Green line denotes location

of SNP. A. The effect of rs242689107 (G40A) is shown, $p = 0.86$. B. The effect of rs264778660 (A43C) is significant ($p = 0.01$). SNP positions refer to miR-342-3p precursor as shown in Fig. 5. **Figure S4.** Expression of miR-342-3p and miR-342-5p in CC founder lines. **Figure S5.** Allele effects for other local miRNA eQTL. **Figure S6.** Allele Effects for miR-451 and miR-486 trans-eQTL on Chr 9. **Figure S7.** miRNA target site enrichment analysis for eosinophils. None of the miRNAs tested had p -values that were significant after adjusting for multiple testing at an FDR < 0.05.

Additional file 2: qPCR-based measurements of miRNAs in preCC mice.

Additional file 3: Genotype data for preCC mice.

Additional file 4: Table S1. Differentially expressed miRNAs among CC founder strains.

Additional file 5: Table S2. miRNA expression and heritability among CC founder strains for select miRNAs.

Additional file 6: Table S3. Pairwise Pearson Correlation Values Among miR-322, miR-252, miR-497, and miR-503.

Additional file 7: Table S4. SNPs on Chromosome 11 in the miRNA trans-band eQTL interval for which the 129S1/SvImJ Strain is distinct.

Additional file 8: Table S5. miRNAs correlated with inflammation phenotypes.

Additional file 9: Table S6. Predicted target genes of enriched miRNAs.

Abbreviations

AAD: allergic airway disease; CC: Collaborative Cross; eQTL: Expression QTL; HDM: house dust mite; preCC: Pre-Collaborative Cross; QTL: Quantitative trait locus/loci.

Competing interests

The authors declare that they have no competing interests.

Authors' contributions

HR generated qPCR data. JBG carried out statistical modeling of the effects of SNPs on pre-miR-342 structure and miRNA target site enrichment analysis. PS and SNPK designed experiments with inbred lines, conducted data analyses, and wrote the manuscript; SNPK oversaw the entire study. GAC, EJC, and FPMdV were involved in generation of CC mice, experimental design, and data interpretation. All authors read and approved the final manuscript.

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References

- Anderson P. Post-transcriptional regulons coordinate the initiation and resolution of inflammation. *Nat Rev Immunol.* 2010;10(1):24–35.
- O'Connell RM, Rao DS, Baltimore D. microRNA regulation of inflammatory responses. *Annu Rev Immunol.* 2012;30(1):295–312.
- Busse WW, Lemanske RF. Asthma. *N Engl J Med.* 2001;344(5):350–62.

4. Foster PS, Plank M, Collison A, Tay HL, Kaiko GE, Li J, et al. The emerging role of microRNAs in regulating immune and inflammatory responses in the lung. *Immunol Rev*. 2013;253(1):198–215.
5. Booton R, Lindsay MA. Emerging role of micromas and long noncoding rnas in respiratory disease. *Chest*. 2014;146(1):193–204.
6. Cushing L, Jiang Z, Kuang P, Lü J. The roles of MicroRNAs and protein components of the MicroRNA pathway in lung development and diseases. *Am J Respir Cell Mol Biol*. 2014;52(4):397–408.
7. Baumjohann D, Ansel KM. MicroRNA-mediated regulation of T helper cell differentiation and plasticity. *Nat Rev Immunol*. 2013;13(9):666–78.
8. Mattes J, Collison A, Plank M, Phipps S, Foster PS. Antagonism of microRNA-126 suppresses the effector function of TH2 cells and the development of allergic airways disease. *Proc Natl Acad Sci*. 2009;106(44):18704–9.
9. Polikepahad S, Knight JM, Naghavi AO, Oplt T, Creighton CJ, Shaw C, et al. Proinflammatory role for let-7 MicroRNAs in experimental asthma. *J Biol Chem*. 2010;285(39):30139–49.
10. Kelada S, Sethupathy P, Okoye IS, Kistasis E, Czieso S, White SD, et al. miR-182 and miR-10a are key regulators of Treg specialisation and stability during Schistosoma and leishmania-associated Inflammation. *PLoS Pathog*. 2013;9(6):e1003451.
11. Chiba Y, Tanabe M, Goto K, Sakai H, Misawa M. Down-regulation of miR-133a contributes to up-regulation of RhoA in bronchial smooth muscle cells. *Am J Respir Crit Care Med*. 2009;180(8):713–9.
12. Mohamed JS, Lopez MA, Boriek AM. Mechanical stretch up-regulates MicroRNA-26a and induces human airway smooth muscle hypertrophy by suppressing glycogen synthase kinase-3 β . *J Biol Chem*. 2010;285(38):29336–47.
13. Perry MM, Baker JE, Gibeon DS, Adcock IM, Chung KF. Airway smooth muscle hyperproliferation is regulated by MicroRNA-221 in severe asthma. *Am J Respir Cell Mol Biol*. 2013;50(1):7–17.
14. Solberg OD, Ostrin EJ, Love MI, Peng JC, Bhakta NR, Hou L, et al. Airway epithelial miRNA expression is altered in asthma. *Am J Respir Crit Care Med*. 2012;186:965–74.
15. Jardim MJ, Dailey L, Silbajoris R, Diaz-Sanchez D. Distinct MicroRNA expression in human airway cells of asthmatic donors identifies a novel asthma-associated gene. *Am J Respir Cell Mol Biol*. 2012;47(4):536–42.
16. Suojalehto H, Lindström I, Majuri ML, Mitts C, Karjalainen J, Wolff H, et al. Altered MicroRNA expression of nasal mucosa in long-term asthma and allergic rhinitis. *Int Arch Allergy Immunol*. 2014;163(3):168–78.
17. Collison A, Mattes J, Plank M, Foster PS. Inhibition of house dust mite-induced allergic airways disease by antagonism of microRNA-145 is comparable to glucocorticoid treatment. *J Allergy Clin Immunol*. 2011;128(1):160–167.e164.
18. Kelada SNP, Wilson MS, Tavarez U, Kubalanza K, Borate B, Whitehead GS, et al. Strain-dependent genomic factors affect allergen-induced airway hyperresponsiveness in mice. *Am J Respir Cell Mol Biol*. 2011;45(4):817–24.
19. Churchill G, Airey D, Allayee H, Angel J, Attie A, Beatty J, et al. The collaborative cross, a community resource for the genetic analysis of complex traits. *Nat Genet*. 2004;36(11):1133–7.
20. The Collaborative Cross Consortium. The Genome Architecture of the Collaborative Cross Mouse Genetic Reference Population. *Genetics* 2012, 190(2):389–401.
21. Kelada SNP, Carpenter DE, Aylor DL, Chines P, Rutledge H, Chesler EJ, et al. Integrative genetic analysis of allergic inflammation in the murine lung. *Am J Respir Cell Mol Biol*. 2014;51(3):436–45.
22. Rutledge H, Aylor DL, Carpenter DE, Peck BC, Chines P, Ostrowski LE, et al. Genetic regulation of Zfp30, CXCL1, and neutrophilic inflammation in murine lung. *Genetics*. 2014;198(2):735–45.
23. Chesler E, Miller D, Branstetter L, Galloway L, Jackson B, Philip V, et al. The collaborative cross at Oak Ridge National Laboratory: developing a powerful resource for systems genetics. *Mamm Genome*. 2008;19:382–9.
24. Kelada SNP, Aylor DL, Peck BCE, Ryan JF, Tavarez U, Buus RJ, et al. Genetic analysis of hematological parameters in incipient lines of the collaborative cross. *G3: Genes|Genomes|Genetics*. 2012;2(2):157–65.
25. Festing M. Inbred strains in biomedical research. New York: Oxford University Press; 1979.
26. Nicodemus-Johnson J, Laxman B, Stern RK, Sudi J, Tierney CN, Norwick L, et al. Maternal asthma and microRNA regulation of soluble HLA-G in the airway. *J Allergy Clin Immunol*. 2013;131(6):1496–1503.e1494.
27. Yang H, Ding Y, Hutchins LN, Szatkiewicz J, Bell TA, Paigen BJ, et al. A customized and versatile high-density genotyping array for the mouse. *Nat Meth*. 2009;6(9):663–6.
28. Liu EY, Zhang Q, McMillan L, de Villena FP-M, Wang W. Efficient genome ancestry inference in complex pedigrees with inbreeding. *Bioinformatics*. 2010;26(12):i199–207.
29. Mott R, Talbot CJ, Turri MG, Collins AC, Flint J. A method for fine mapping quantitative trait loci in outbred animal stocks. *Proc Natl Acad Sci*. 2000;97(23):12649–54.
30. Valdar W, Holmes CC, Mott R, Flint J. Mapping in structured populations by resample model averaging. *Genetics*. 2009;182(4):1263–77.
31. Dupuis J, Siegmund D. Statistical methods for mapping quantitative trait loci from a dense set of markers. *Genetics*. 1999;151(1):373–86.
32. Wang J, de Villena F, McMillan L. Comparative analysis and visualization of multiple collinear genomes. *BMC Bioinformatics*. 2012;13 Suppl 3:S13.
33. Keane TM, Goodstadt L, Danecek P, White MA, Wong K, Yalcin B, et al. Mouse genomic variation and its effect on phenotypes and gene regulation. *Nature*. 2011;477(7364):289–94.
34. Yalcin B, Wong K, Agam A, Goodson M, Keane TM, Gan X, et al. Sequence-based characterization of structural variation in the mouse genome. *Nature*. 2011;477(7364):326–9.
35. Lorenz R, Bernhart S, Honer zu Siederdisen C, Tafer H, Flamm C, Stadler P, et al. ViennaRNA Package 2.0. *Algorithms Mol Biol*. 2011;6(1):26.
36. Halvorsen M, Martin JS, Broadaway S, Laederach A. Disease-associated mutations that alter the RNA structural ensemble. *PLoS Genet*. 2010;6(8), e1001074.
37. Passador-Gurgel G, Hsieh W-P, Hunt P, Deighton N, Gibson G. Quantitative trait transcripts for nicotine resistance in *Drosophila melanogaster*. *Nat Genet*. 2007;39(2):264–8.
38. Baran-Gale J, Fannin EE, Kurtz CL, Sethupathy P. Beta cell 5'-shifted isomiRs are candidate regulatory hubs in type 2 diabetes. *PLoS One*. 2013;8(9), e73240.
39. Kurtz CL, Peck BCE, Fannin EE, Beysen C, Miao J, Landstreet SR, et al. microRNA-29 fine-tunes the expression of key FOXA2-activated lipid metabolism genes and is dysregulated in animal models of insulin resistance and diabetes. *Diabetes*. 2014;63:3141–8.
40. Grimson A, Farh KK-H, Johnston WK, Garrett-Engle P, Lim LP, Bartel DP. MicroRNA targeting specificity in mammals: determinants beyond seed pairing. *Mol Cell*. 2007;27(1):91–105.
41. Yang H, Wang JR, Didion JP, Buus RJ, Bell TA, Welsh CE, et al. Subspecific origin and haplotype diversity in the laboratory mouse. *Nat Genet*. 2011;43(7):648–55.
42. Schizophrenia Psychiatric Genome-Wide Association Study (GWAS) Consortium. Genome-wide association study identifies five new schizophrenia loci. *Nat Genet*. 2011;43(10):969–976.
43. Soldà G, Robusto M, Primignani P, Castorina P, Benzonzi E, Cesarani A, et al. A novel mutation within the MIR96 gene causes non-syndromic inherited hearing loss in an Italian family by altering pre-miRNA processing. *Human Molecular Genetics*. 2012;21(3):577–585.
44. Pekarsky Y, Croce CM. Role of miR-15/16 in CLL. *Cell Death Differ*. 2015;22(1):6–11.
45. Luo X, Yang W, Ye D-Q, Cui H, Zhang Y, Hirankarn N, et al. A functional variant in MicroRNA-146a promoter modulates its expression and confers disease risk for systemic lupus erythematosus. *PLoS Genet*. 2011;7(6), e1002128.
46. Lin J, Welker NC, Zhao Z, Li Y, Zhang J, Reuss SA, et al. Novel specific microRNA biomarkers in idiopathic inflammatory bowel disease unrelated to disease activity. *Mod Pathol*. 2014;27(4):602–8.
47. Xu N, Meisgen F, Butler LM, Han G, Wang X-J, Söderberg-Nauclér C, et al. MicroRNA-31 is overexpressed in psoriasis and modulates inflammatory cytokine and chemokine production in keratinocytes via targeting serine/threonine kinase 40. *J Immunol*. 2013;190(2):678–88.
48. Liu Z, Wang J, Li G, Wang H-W. Structure of precursor microRNA's terminal loop regulates human Dicer's dicing activity by switching DExH/D domain. *Protein & Cell*. 2014;1–9.
49. Chen K, Rajewsky N. Natural selection on human microRNA binding sites inferred from SNP data. *Nat Genet*. 2006;38(12):1452–6.
50. Saunders MA, Liang H, Li W-H. Human polymorphism at microRNAs and microRNA target sites. *Proc Natl Acad Sci*. 2007;104(9):3300–5.
51. Huan T, Rong J, Liu C, Zhang X, Tanriverdi K, Joeheanes R, et al. Genome-wide identification of microRNA expression quantitative trait loci. *Nat Commun*. 2015;6.
52. Dempsey EC, Cool CD, Littler CM. Lung disease and PKCs. *Pharmacol Res*. 2007;55(6):545–59.
53. Zhao E, Keller M, Rabaglia M, Oler A, Stapleton D, Schueler K, et al. Obesity and genetics regulate microRNAs in islets, liver, and adipose of diabetic mice. *Mamm Genome*. 2009;20(8):476–85.

54. Ramachandran S, Karp PH, Jiang P, Ostedgaard LS, Walz AE, Fisher JT, et al. A microRNA network regulates expression and biosynthesis of wild-type and $\Delta F508$ mutant cystic fibrosis transmembrane conductance regulator. *Proc Natl Acad Sci*. 2012;109(33):13362–7.
55. Liu Z, Petersen R, Devireddy L. Impaired neutrophil function in 24p3 null mice contributes to enhanced susceptibility to bacterial infections. *J Immunol*. 2013;190(9):4692–706.
56. Stow JL, Manderson AP, Murray RZ. SNAREing immunity: the role of SNAREs in the immune system. *Nat Rev Immunol*. 2006;6(12):919–29.
57. Morrell CN, Matsushita K, Lowenstein CJ. A novel inhibitor of N-Ethylmaleimide-Sensitive factor decreases leukocyte trafficking and peritonitis. *J Pharmacol Exp Ther*. 2005;314(1):155–61.
58. Hartl D, Krauss-Etschmann S, Koller B, Hordijk PL, Kuijpers TW, Hoffmann F, et al. Infiltrated neutrophils acquire novel chemokine receptor expression and chemokine responsiveness in chronic inflammatory lung diseases. *J Immunol*. 2008;181(11):8053–67.
59. Souto FO, Alves-Filho JC, Turato WM, Auxiliadora-Martins M, Basile-Filho A, Cunha FQ. Essential role of CCR2 in neutrophil tissue infiltration and multiple organ dysfunction in sepsis. *Am J Respir Crit Care Med*. 2011;183(2):234–42.
60. Williams AE, Chambers RC. The mercurial nature of neutrophils: still an enigma in ARDS? *Am J Physiol Lung Cell Mol Physiol*. 2014;306:L217–30.
61. Zhou J, Wu R, High AA, Slaughter CA, Finkelstein D, Rehg JE, et al. A20-binding inhibitor of NF- κ B (ABIN1) controls Toll-like receptor-mediated CCAAT/enhancer-binding protein β activation and protects from inflammatory disease. *Proc Natl Acad Sci*. 2011;108(44):E998–1006.
62. Tabeta K, Hoebe K, Janssen EM, Du X, Georgel P, Crozat K, et al. The Unc93b1 mutation 3d disrupts exogenous antigen presentation and signaling via Toll-like receptors 3, 7 and 9. *Nat Immunol*. 2006;7(2):156–64.
63. Laurila EM, Kallioniemi A. The diverse role of miR-31 in regulating cancer associated phenotypes. *Genes Chromosom Cancer*. 2013;52(12):1103–13.

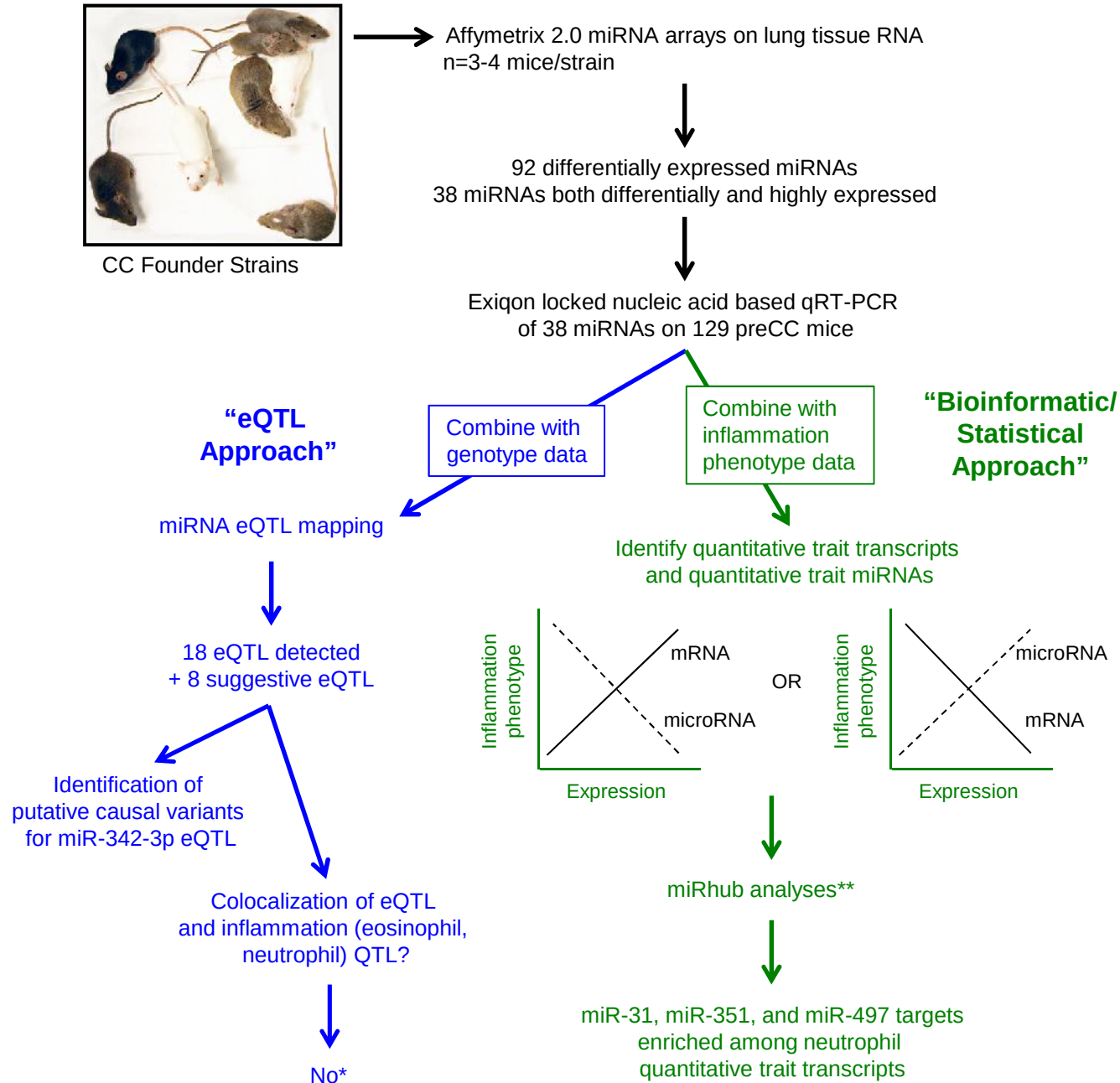
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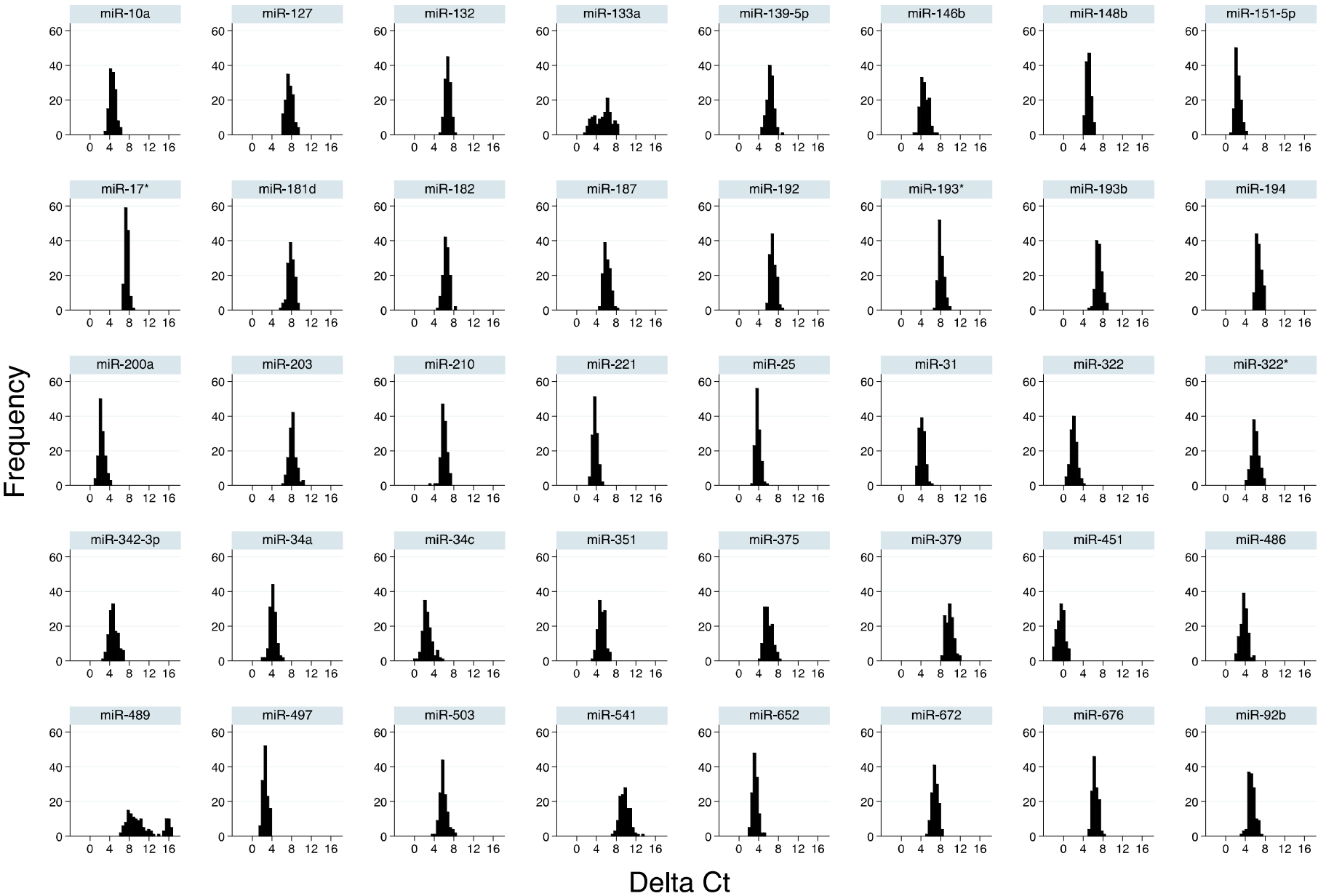
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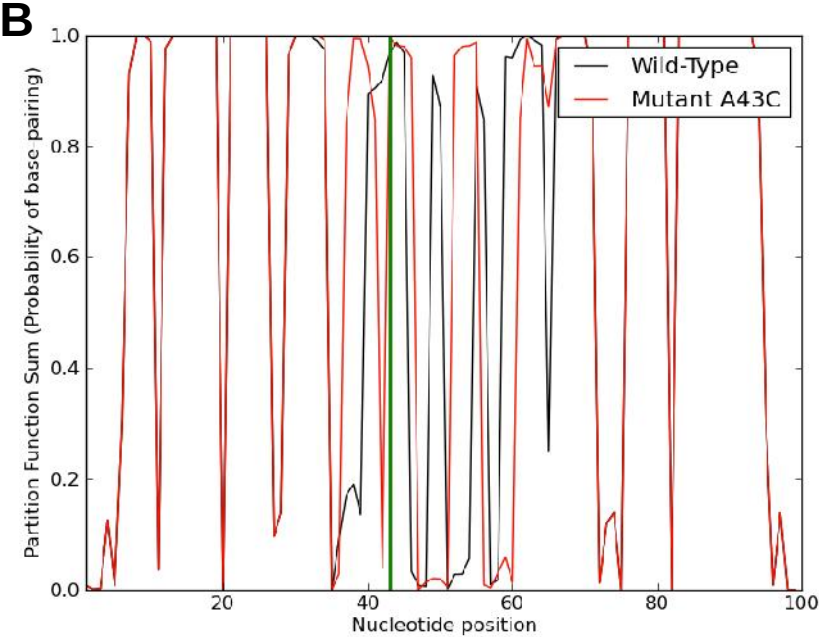
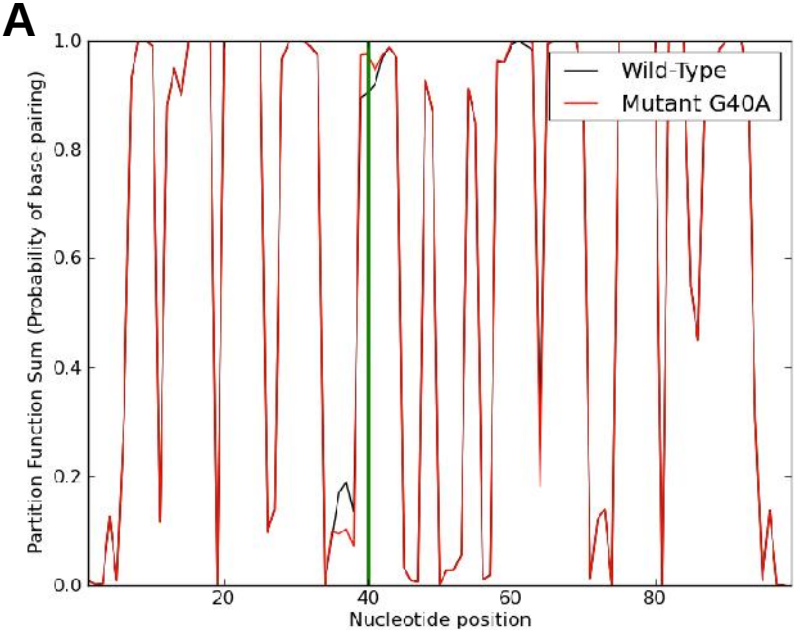
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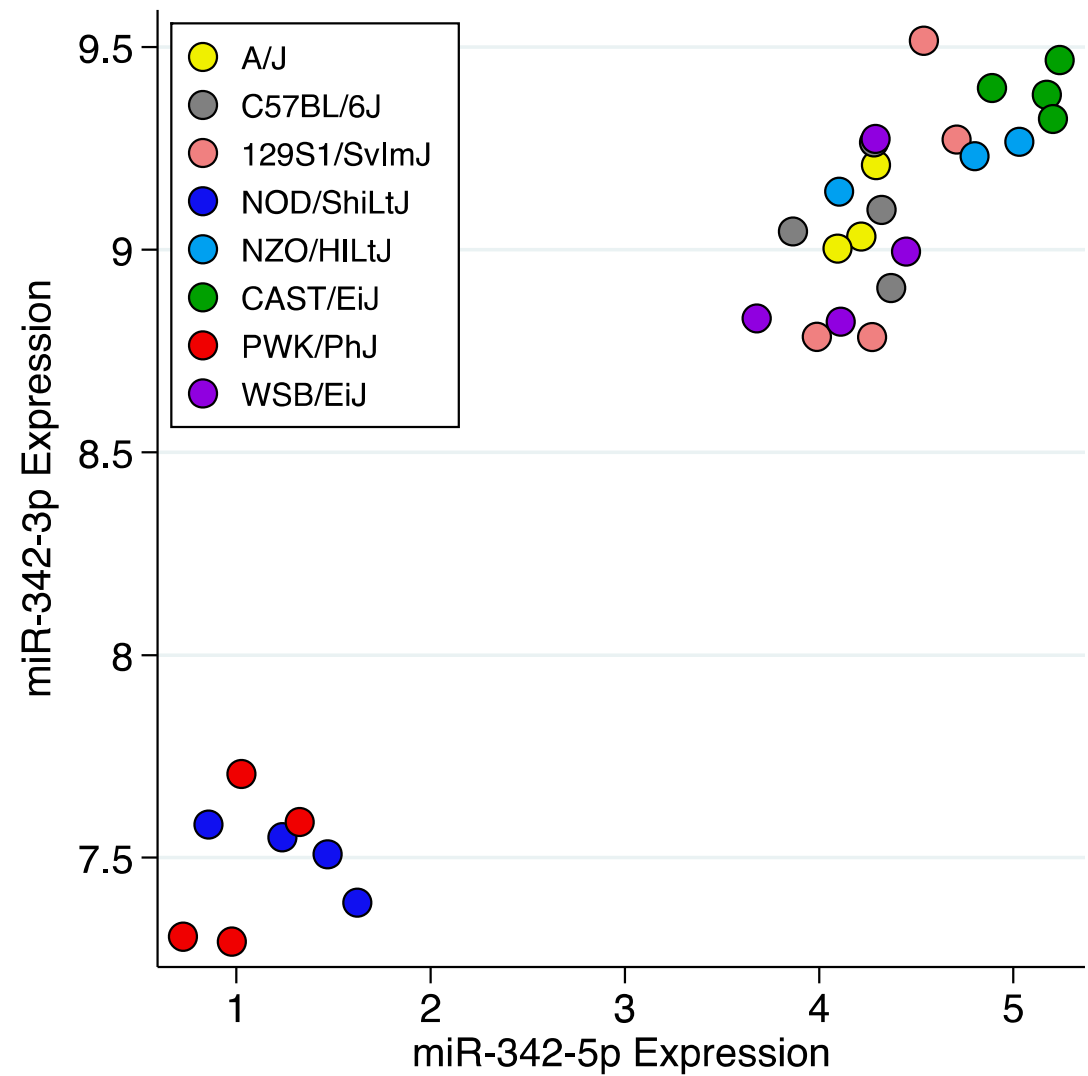
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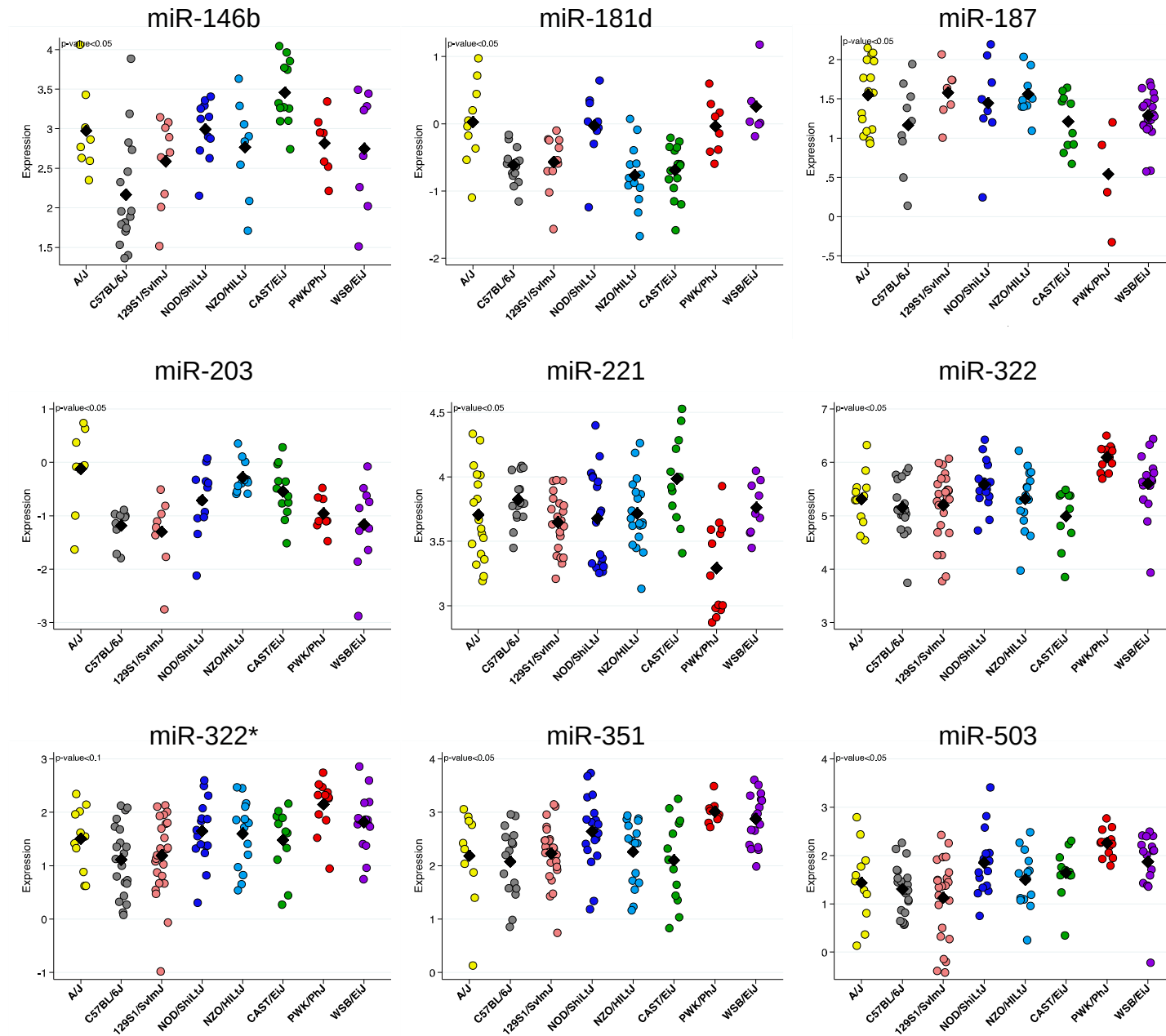
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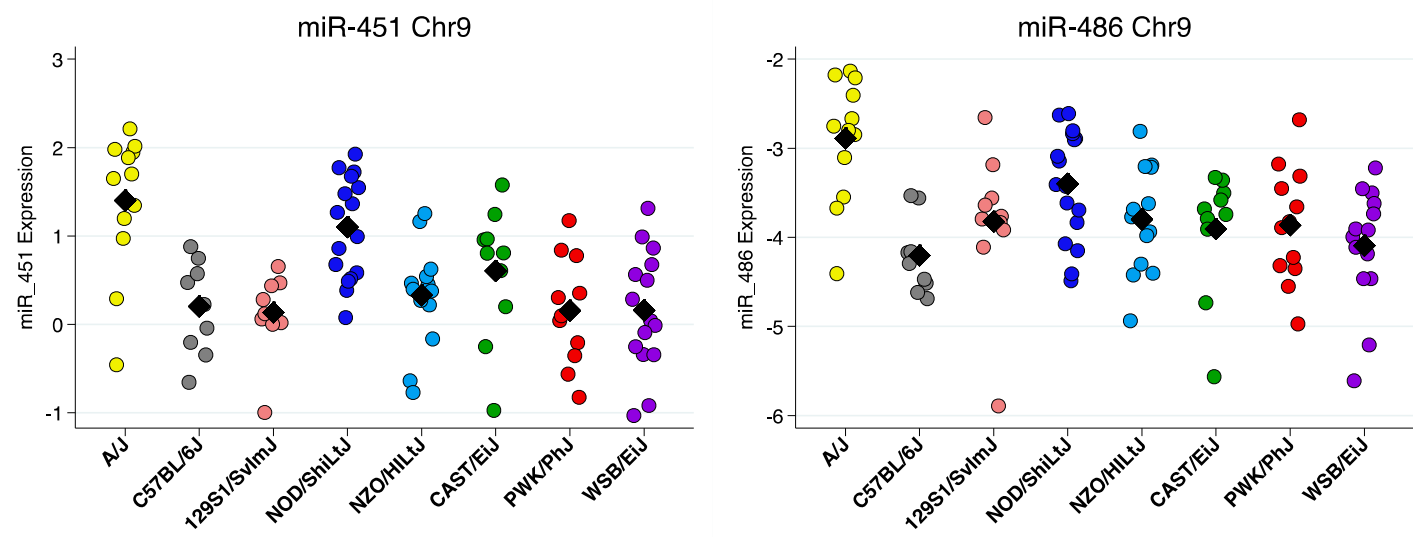
Supplementary Figure 4.



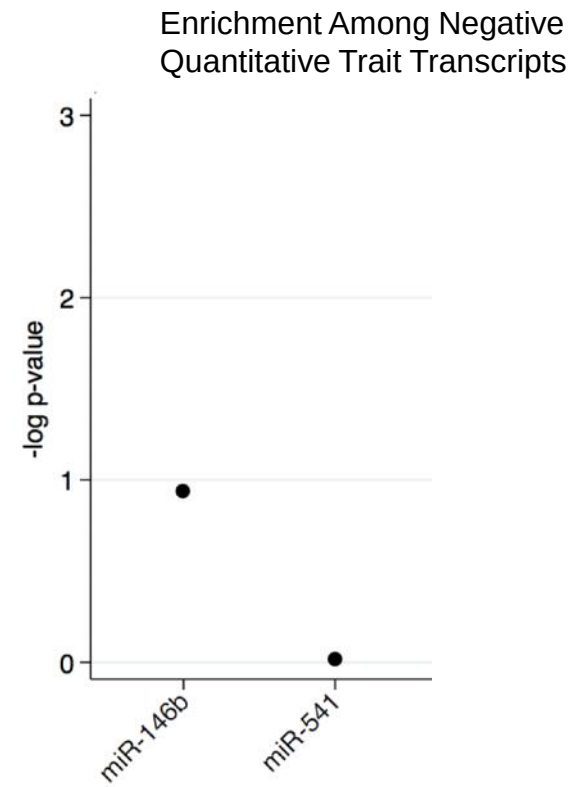
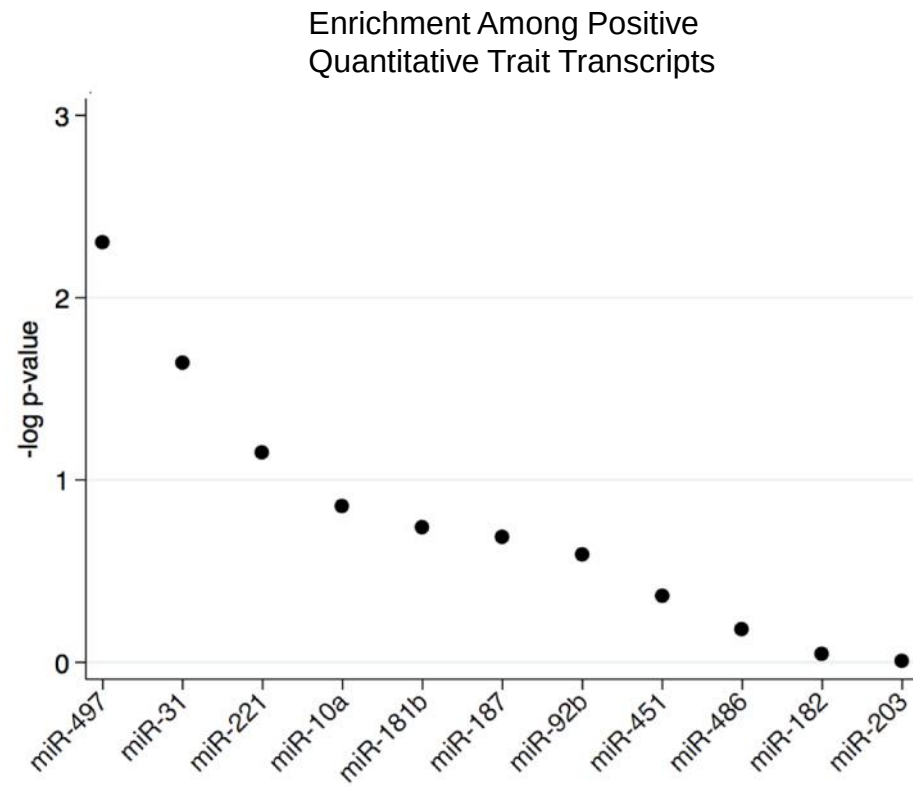
Supplementary Figure 5.



Supplementary Figure 6.



Supplementary Figure 7.



subjectname	microRNA	Cq
OR1009m158	U6 snRNA	25.09
OR1009m158	mmu-miR-10a	30.25
OR1009m158	mmu-miR-127	31.88667
OR1009m158	mmu-miR-132	31
OR1009m158	mmu-miR-133a	31.97667
OR1009m158	mmu-miR-139-5p	30.25
OR1009m158	mmu-miR-146b	28.59333
OR1009m158	mmu-miR-148b	29.88
OR1009m158	mmu-miR-151-5p	27.66333
OR1009m158	mmu-miR-17*	32.08667
OR1009m158	mmu-miR-181d	33.00333
OR1009m158	mmu-miR-182	30.86667
OR1009m158	mmu-miR-187	31.05333
OR1009m158	mmu-miR-192	31.40333
OR1009m158	mmu-miR-193*	32.96667
OR1009m158	mmu-miR-193b	32.54
OR1009m158	mmu-miR-194	31.56
OR1009m158	mmu-miR-200a	27.68333
OR1009m158	mmu-miR-203	33.94667
OR1009m158	mmu-miR-210	30.81333
OR1009m158	mmu-miR-221	28.03333
OR1009m158	mmu-miR-25	28.27
OR1009m158	mmu-miR-31	30.09333
OR1009m158	mmu-miR-322	26.81667
OR1009m158	mmu-miR-322*	31.00667
OR1009m158	mmu-miR-342-3p	28.18
OR1009m158	mmu-miR-34a	27.96333
OR1009m158	mmu-miR-34c	27.81333
OR1009m158	mmu-miR-351	29.61333
OR1009m158	mmu-miR-375	31.84333
OR1009m158	mmu-miR-379	34.06
OR1009m158	mmu-miR-451	25.03
OR1009m158	mmu-miR-486	28.88333
OR1009m158	mmu-miR-489	40
OR1009m158	mmu-miR-497	27.75333
OR1009m158	mmu-miR-503	30.17
OR1009m158	mmu-miR-541	33.98667
OR1009m158	mmu-miR-652	28.24667
OR1009m158	mmu-miR-672	31.95
OR1009m158	mmu-miR-676	31.65
OR1009m158	mmu-miR-92b	30.72667
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OR1057m169	mmu-miR-127	31.87667
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OR1057m169	mmu-miR-133a	29.05333
OR1057m169	mmu-miR-139-5p	30.17333
OR1057m169	mmu-miR-146b	28.04
OR1057m169	mmu-miR-148b	29.07
OR1057m169	mmu-miR-151-5p	26.47333
OR1057m169	mmu-miR-17*	31.50333
OR1057m169	mmu-miR-181d	32.32667
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OR1057m169	mmu-miR-187	30.10333
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OR1057m169	mmu-miR-193b	30.89667
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OR1057m169	mmu-miR-31	27.81333
OR1057m169	mmu-miR-322	25.98667
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OR1057m169	mmu-miR-379	34.55
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OR1057m169	mmu-miR-486	28.50667
OR1057m169	mmu-miR-489	32.27333
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OR1057m169	mmu-miR-92b	29.93333
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OR1112m142	mmu-miR-127	32.45
OR1112m142	mmu-miR-132	31.66667
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OR1112m142	mmu-miR-139-5p	31.73667
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OR1112m142	mmu-miR-148b	29.88333
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OR1112m142	mmu-miR-34c	27.37667
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OR113m87	mmu-miR-541	33.64333
OR113m87	mmu-miR-652	27.65667
OR113m87	mmu-miR-672	30.71667

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OR113m87	mmu-miR-676	30.69667
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OR1234m179	mmu-miR-181d	31.32667
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OR1234m179	mmu-miR-193b	31.19333
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OR1234m179	mmu-miR-200a	26.50667
OR1234m179	mmu-miR-203	32.33
OR1234m179	mmu-miR-210	30.37333
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OR1234m179	mmu-miR-25	27.79333
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OR1234m179	mmu-miR-672	30.75667
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OR1237m84	mmu-miR-203	31.22333
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OR1237m84	mmu-miR-221	27.53
OR1237m84	mmu-miR-25	26.57667
OR1237m84	mmu-miR-31	27.28667
OR1237m84	mmu-miR-322	24.83333
OR1237m84	mmu-miR-322*	28.70333

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OR1237m84	mmu-miR-672	30.23333
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OR125m64	mmu-miR-25	27.14
OR125m64	mmu-miR-31	28.23333
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OR125m64	mmu-miR-322*	29.52
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OR125m64	mmu-miR-34a	27.91333
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OR1390m66	mmu-miR-221	28.46333
OR1390m66	mmu-miR-25	28.06667
OR1390m66	mmu-miR-31	28.23333
OR1390m66	mmu-miR-322	25.79333
OR1390m66	mmu-miR-322*	30.09
OR1390m66	mmu-miR-342-3p	29.50333
OR1390m66	mmu-miR-34a	28.28667
OR1390m66	mmu-miR-34c	26.30667
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OR13m69	mmu-miR-133a	30.97333
OR13m69	mmu-miR-139-5p	30.06667
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OR2020m60	mmu-miR-34c	26.28
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OR2020m60	mmu-miR-375	29.95333
OR2020m60	mmu-miR-379	34.14667
OR2020m60	mmu-miR-451	23.36
OR2020m60	mmu-miR-486	27.79333
OR2020m60	mmu-miR-489	32.58667
OR2020m60	mmu-miR-497	26.17333
OR2020m60	mmu-miR-503	29.82
OR2020m60	mmu-miR-541	33.73667
OR2020m60	mmu-miR-652	27.37667
OR2020m60	mmu-miR-672	31.11333
OR2020m60	mmu-miR-676	29.56667
OR2020m60	mmu-miR-92b	29.43667
OR2041m60	U6 snRNA	24.47333
OR2041m60	mmu-miR-10a	28.61
OR2041m60	mmu-miR-127	31.1
OR2041m60	mmu-miR-132	30.13
OR2041m60	mmu-miR-133a	30.06
OR2041m60	mmu-miR-139-5p	29.90333
OR2041m60	mmu-miR-146b	28.56667
OR2041m60	mmu-miR-148b	28.74333
OR2041m60	mmu-miR-151-5p	26.00333
OR2041m60	mmu-miR-17*	31.71
OR2041m60	mmu-miR-181d	32.04333
OR2041m60	mmu-miR-182	30.52667
OR2041m60	mmu-miR-187	29.9
OR2041m60	mmu-miR-192	30.55
OR2041m60	mmu-miR-193*	31.73667
OR2041m60	mmu-miR-193b	30.77667
OR2041m60	mmu-miR-194	30.42
OR2041m60	mmu-miR-200a	26.08
OR2041m60	mmu-miR-203	32.34333
OR2041m60	mmu-miR-210	29.58333
OR2041m60	mmu-miR-221	27.26333
OR2041m60	mmu-miR-25	27.76667

OR2041m60	mmu-miR-31	27.93667
OR2041m60	mmu-miR-322	25.96333
OR2041m60	mmu-miR-322*	29.77333
OR2041m60	mmu-miR-342-3p	30.28
OR2041m60	mmu-miR-34a	27.42
OR2041m60	mmu-miR-34c	26.02
OR2041m60	mmu-miR-351	29.15333
OR2041m60	mmu-miR-375	29.69
OR2041m60	mmu-miR-379	33.6
OR2041m60	mmu-miR-451	22.51667
OR2041m60	mmu-miR-486	27.33333
OR2041m60	mmu-miR-489	31.33
OR2041m60	mmu-miR-497	26.55
OR2041m60	mmu-miR-503	29.95667
OR2041m60	mmu-miR-541	33.52333
OR2041m60	mmu-miR-652	26.94
OR2041m60	mmu-miR-672	30.55
OR2041m60	mmu-miR-676	30.44
OR2041m60	mmu-miR-92b	28.9
OR205m51	U6 snRNA	23.37333
OR205m51	mmu-miR-10a	28.22333
OR205m51	mmu-miR-127	31.27333
OR205m51	mmu-miR-132	30.53667
OR205m51	mmu-miR-133a	27.77
OR205m51	mmu-miR-139-5p	30.26
OR205m51	mmu-miR-146b	28.19333
OR205m51	mmu-miR-148b	28.82667
OR205m51	mmu-miR-151-5p	26.03
OR205m51	mmu-miR-17*	31.25667
OR205m51	mmu-miR-181d	31.96
OR205m51	mmu-miR-182	30.60333
OR205m51	mmu-miR-187	30.18333
OR205m51	mmu-miR-192	31.06667
OR205m51	mmu-miR-193*	31.50333
OR205m51	mmu-miR-193b	31.06333
OR205m51	mmu-miR-194	30.91667
OR205m51	mmu-miR-200a	25.73333
OR205m51	mmu-miR-203	31.69
OR205m51	mmu-miR-210	29.42667
OR205m51	mmu-miR-221	28.37
OR205m51	mmu-miR-25	27.59667
OR205m51	mmu-miR-31	27.39667
OR205m51	mmu-miR-322	24.97
OR205m51	mmu-miR-322*	28.85333
OR205m51	mmu-miR-342-3p	28.95667
OR205m51	mmu-miR-34a	28.34667
OR205m51	mmu-miR-34c	26.29333
OR205m51	mmu-miR-351	28.27333
OR205m51	mmu-miR-375	29.03
OR205m51	mmu-miR-379	33.54
OR205m51	mmu-miR-451	23.25667
OR205m51	mmu-miR-486	27.87667
OR205m51	mmu-miR-489	33.03
OR205m51	mmu-miR-497	26.25333
OR205m51	mmu-miR-503	28.89
OR205m51	mmu-miR-541	33.47
OR205m51	mmu-miR-652	26.82
OR205m51	mmu-miR-672	29.95667
OR205m51	mmu-miR-676	30.36667
OR205m51	mmu-miR-92b	29.00667
OR2075m59	U6 snRNA	24.35
OR2075m59	mmu-miR-10a	29.53
OR2075m59	mmu-miR-127	32.37667
OR2075m59	mmu-miR-132	30.79667
OR2075m59	mmu-miR-133a	31.95667
OR2075m59	mmu-miR-139-5p	31.63
OR2075m59	mmu-miR-146b	28.91333
OR2075m59	mmu-miR-148b	29.97667

OR2075m59	mmu-miR-151-5p	27.17667
OR2075m59	mmu-miR-17*	32.25667
OR2075m59	mmu-miR-181d	33.26
OR2075m59	mmu-miR-182	31.59
OR2075m59	mmu-miR-187	30.76
OR2075m59	mmu-miR-192	31.7
OR2075m59	mmu-miR-193*	32.73333
OR2075m59	mmu-miR-193b	31.91
OR2075m59	mmu-miR-194	31.59
OR2075m59	mmu-miR-200a	27.32667
OR2075m59	mmu-miR-203	32.61
OR2075m59	mmu-miR-210	31.48667
OR2075m59	mmu-miR-221	28.59667
OR2075m59	mmu-miR-25	28.68333
OR2075m59	mmu-miR-31	29.04333
OR2075m59	mmu-miR-322	27.72667
OR2075m59	mmu-miR-322*	31.52667
OR2075m59	mmu-miR-342-3p	29.48
OR2075m59	mmu-miR-34a	28.84
OR2075m59	mmu-miR-34c	28.09333
OR2075m59	mmu-miR-351	30.35667
OR2075m59	mmu-miR-375	31.13333
OR2075m59	mmu-miR-379	34.36
OR2075m59	mmu-miR-451	24.36333
OR2075m59	mmu-miR-486	29.00667
OR2075m59	mmu-miR-489	40
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OR2075m59	mmu-miR-503	31.07667
OR2075m59	mmu-miR-541	33.71333
OR2075m59	mmu-miR-652	27.95667
OR2075m59	mmu-miR-672	32.24667
OR2075m59	mmu-miR-676	31.39667
OR2075m59	mmu-miR-92b	30.1
OR2168m52	U6 snRNA	25.17
OR2168m52	mmu-miR-10a	30.03
OR2168m52	mmu-miR-127	32.51
OR2168m52	mmu-miR-132	31.79333
OR2168m52	mmu-miR-133a	31.75667
OR2168m52	mmu-miR-139-5p	31.48667
OR2168m52	mmu-miR-146b	30.62
OR2168m52	mmu-miR-148b	29.55667
OR2168m52	mmu-miR-151-5p	27.00667
OR2168m52	mmu-miR-17*	32.38333
OR2168m52	mmu-miR-181d	31.98667
OR2168m52	mmu-miR-182	30.62
OR2168m52	mmu-miR-187	30.88
OR2168m52	mmu-miR-192	31.40333
OR2168m52	mmu-miR-193*	32.88333
OR2168m52	mmu-miR-193b	32.21333
OR2168m52	mmu-miR-194	31.50667
OR2168m52	mmu-miR-200a	26.97333
OR2168m52	mmu-miR-203	33.28
OR2168m52	mmu-miR-210	30.61333
OR2168m52	mmu-miR-221	28.30333
OR2168m52	mmu-miR-25	28.86333
OR2168m52	mmu-miR-31	28.37333
OR2168m52	mmu-miR-322	27.24333
OR2168m52	mmu-miR-322*	31.11333
OR2168m52	mmu-miR-342-3p	29.36667
OR2168m52	mmu-miR-34a	28.53333
OR2168m52	mmu-miR-34c	27.36333
OR2168m52	mmu-miR-351	30.02667
OR2168m52	mmu-miR-375	31.11667
OR2168m52	mmu-miR-379	34.98333
OR2168m52	mmu-miR-451	24.33
OR2168m52	mmu-miR-486	28.54
OR2168m52	mmu-miR-489	35.08
OR2168m52	mmu-miR-497	27.28

OR2168m52	mmu-miR-503	31.07333
OR2168m52	mmu-miR-541	33.83667
OR2168m52	mmu-miR-652	28.00333
OR2168m52	mmu-miR-672	30.92
OR2168m52	mmu-miR-676	30.79
OR2168m52	mmu-miR-92b	30.35333
OR219m71	U6 snRNA	24.74667
OR219m71	mmu-miR-10a	29.43333
OR219m71	mmu-miR-127	31.93333
OR219m71	mmu-miR-132	31.16333
OR219m71	mmu-miR-133a	30.64
OR219m71	mmu-miR-139-5p	29.67
OR219m71	mmu-miR-146b	29.40667
OR219m71	mmu-miR-148b	29.47333
OR219m71	mmu-miR-151-5p	27.06333
OR219m71	mmu-miR-17*	31.92
OR219m71	mmu-miR-181d	32.51667
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OR219m71	mmu-miR-193*	32.78
OR219m71	mmu-miR-193b	31.69667
OR219m71	mmu-miR-194	31.53333
OR219m71	mmu-miR-200a	26.69
OR219m71	mmu-miR-203	32.41333
OR219m71	mmu-miR-210	30.67667
OR219m71	mmu-miR-221	28.26333
OR219m71	mmu-miR-25	28.42667
OR219m71	mmu-miR-31	28.69333
OR219m71	mmu-miR-322	26.66
OR219m71	mmu-miR-322*	30.98333
OR219m71	mmu-miR-342-3p	29.03667
OR219m71	mmu-miR-34a	28.99333
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OR219m71	mmu-miR-351	29.83333
OR219m71	mmu-miR-375	30.08333
OR219m71	mmu-miR-379	34.16333
OR219m71	mmu-miR-451	23.69
OR219m71	mmu-miR-486	28.21
OR219m71	mmu-miR-489	32.46667
OR219m71	mmu-miR-497	27.19
OR219m71	mmu-miR-503	30.87333
OR219m71	mmu-miR-541	33.91
OR219m71	mmu-miR-652	27.77
OR219m71	mmu-miR-672	31.34667
OR219m71	mmu-miR-676	31.24667
OR219m71	mmu-miR-92b	29.35
OR220m52	U6 snRNA	23.89
OR220m52	mmu-miR-10a	28.43667
OR220m52	mmu-miR-127	31.6
OR220m52	mmu-miR-132	30.72
OR220m52	mmu-miR-133a	29.36667
OR220m52	mmu-miR-139-5p	30.09
OR220m52	mmu-miR-146b	29.63667
OR220m52	mmu-miR-148b	29.13333
OR220m52	mmu-miR-151-5p	26.56667
OR220m52	mmu-miR-17*	31.50333
OR220m52	mmu-miR-181d	31.65667
OR220m52	mmu-miR-182	30.93
OR220m52	mmu-miR-187	29.76667
OR220m52	mmu-miR-192	30.57667
OR220m52	mmu-miR-193*	32.33
OR220m52	mmu-miR-193b	31
OR220m52	mmu-miR-194	30.24
OR220m52	mmu-miR-200a	26.18667
OR220m52	mmu-miR-203	31.55667
OR220m52	mmu-miR-210	30.00333
OR220m52	mmu-miR-221	28.02333

OR220m52	mmu-miR-25	27.98667
OR220m52	mmu-miR-31	28.20667
OR220m52	mmu-miR-322	26.21
OR220m52	mmu-miR-322*	30.47
OR220m52	mmu-miR-342-3p	28.84667
OR220m52	mmu-miR-34a	28.27333
OR220m52	mmu-miR-34c	25.72333
OR220m52	mmu-miR-351	29.88
OR220m52	mmu-miR-375	29.24333
OR220m52	mmu-miR-379	33.90333
OR220m52	mmu-miR-451	24.25
OR220m52	mmu-miR-486	28.41667
OR220m52	mmu-miR-489	33.69
OR220m52	mmu-miR-497	26.70667
OR220m52	mmu-miR-503	30.31667
OR220m52	mmu-miR-541	33.04333
OR220m52	mmu-miR-652	27.31333
OR220m52	mmu-miR-672	30.96
OR220m52	mmu-miR-676	30.76667
OR220m52	mmu-miR-92b	28.52667
OR237m72	U6 snRNA	23.91667
OR237m72	mmu-miR-10a	27.21333
OR237m72	mmu-miR-127	31.37
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OR237m72	mmu-miR-133a	26.61333
OR237m72	mmu-miR-139-5p	29.45667
OR237m72	mmu-miR-146b	28.00667
OR237m72	mmu-miR-148b	28.51333
OR237m72	mmu-miR-151-5p	26.19
OR237m72	mmu-miR-17*	30.68333
OR237m72	mmu-miR-181d	31.21667
OR237m72	mmu-miR-182	30.42
OR237m72	mmu-miR-187	29.16
OR237m72	mmu-miR-192	30.24667
OR237m72	mmu-miR-193*	31.98333
OR237m72	mmu-miR-193b	30.62333
OR237m72	mmu-miR-194	29.69333
OR237m72	mmu-miR-200a	25.75
OR237m72	mmu-miR-203	31.79667
OR237m72	mmu-miR-210	29.62
OR237m72	mmu-miR-221	27.81333
OR237m72	mmu-miR-25	27.58
OR237m72	mmu-miR-31	28.11
OR237m72	mmu-miR-322	24.37
OR237m72	mmu-miR-322*	28.42667
OR237m72	mmu-miR-342-3p	29.07
OR237m72	mmu-miR-34a	27.84333
OR237m72	mmu-miR-34c	25.97
OR237m72	mmu-miR-351	27.6
OR237m72	mmu-miR-375	29.01667
OR237m72	mmu-miR-379	33.25
OR237m72	mmu-miR-451	23.21
OR237m72	mmu-miR-486	27.38667
OR237m72	mmu-miR-489	33.47667
OR237m72	mmu-miR-497	25.98
OR237m72	mmu-miR-503	28.90667
OR237m72	mmu-miR-541	34.33667
OR237m72	mmu-miR-652	27.35
OR237m72	mmu-miR-672	31.39333
OR237m72	mmu-miR-676	29.88667
OR237m72	mmu-miR-92b	28.57333
OR2558m55	U6 snRNA	23.72333
OR2558m55	mmu-miR-10a	28.98
OR2558m55	mmu-miR-127	31.37
OR2558m55	mmu-miR-132	30.80333
OR2558m55	mmu-miR-133a	26.90333
OR2558m55	mmu-miR-139-5p	30.78
OR2558m55	mmu-miR-146b	28.66667

OR2558m55	mmu-miR-148b	29.31333
OR2558m55	mmu-miR-151-5p	27.00333
OR2558m55	mmu-miR-17*	31.75
OR2558m55	mmu-miR-181d	31.92333
OR2558m55	mmu-miR-182	30.25333
OR2558m55	mmu-miR-187	30.53667
OR2558m55	mmu-miR-192	31.70333
OR2558m55	mmu-miR-193*	32.28333
OR2558m55	mmu-miR-193b	30.99333
OR2558m55	mmu-miR-194	31.2
OR2558m55	mmu-miR-200a	26.65
OR2558m55	mmu-miR-203	31.09
OR2558m55	mmu-miR-210	30.21667
OR2558m55	mmu-miR-221	28.01667
OR2558m55	mmu-miR-25	28.17667
OR2558m55	mmu-miR-31	28.26
OR2558m55	mmu-miR-322	26.11
OR2558m55	mmu-miR-322*	29.72
OR2558m55	mmu-miR-342-3p	29.32333
OR2558m55	mmu-miR-34a	28.86
OR2558m55	mmu-miR-34c	26.47
OR2558m55	mmu-miR-351	28.40667
OR2558m55	mmu-miR-375	30.01667
OR2558m55	mmu-miR-379	33.14333
OR2558m55	mmu-miR-451	24.34333
OR2558m55	mmu-miR-486	28.20333
OR2558m55	mmu-miR-489	40
OR2558m55	mmu-miR-497	27.05
OR2558m55	mmu-miR-503	29.59333
OR2558m55	mmu-miR-541	32.99333
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OR2580m61	mmu-miR-132	30.99667
OR2580m61	mmu-miR-133a	27.27667
OR2580m61	mmu-miR-139-5p	30.21333
OR2580m61	mmu-miR-146b	27.98333
OR2580m61	mmu-miR-148b	29.32
OR2580m61	mmu-miR-151-5p	27.40333
OR2580m61	mmu-miR-17*	32.04667
OR2580m61	mmu-miR-181d	32.78
OR2580m61	mmu-miR-182	31.19333
OR2580m61	mmu-miR-187	30.78667
OR2580m61	mmu-miR-192	31.25
OR2580m61	mmu-miR-193*	33.08667
OR2580m61	mmu-miR-193b	31.51
OR2580m61	mmu-miR-194	31.58
OR2580m61	mmu-miR-200a	26.51
OR2580m61	mmu-miR-203	33.57333
OR2580m61	mmu-miR-210	30.19
OR2580m61	mmu-miR-221	27.62
OR2580m61	mmu-miR-25	28.66667
OR2580m61	mmu-miR-31	28.88333
OR2580m61	mmu-miR-322	26.88667
OR2580m61	mmu-miR-322*	31.28
OR2580m61	mmu-miR-342-3p	27.99
OR2580m61	mmu-miR-34a	27.21667
OR2580m61	mmu-miR-34c	25.45333
OR2580m61	mmu-miR-351	30.29667
OR2580m61	mmu-miR-375	29.30333
OR2580m61	mmu-miR-379	33.93333
OR2580m61	mmu-miR-451	24.58667
OR2580m61	mmu-miR-486	29.10667
OR2580m61	mmu-miR-489	40

OR2580m61	mmu-miR-497	27.48
OR2580m61	mmu-miR-503	30.89667
OR2580m61	mmu-miR-541	33.56667
OR2580m61	mmu-miR-652	27.41
OR2580m61	mmu-miR-672	31.18667
OR2580m61	mmu-miR-676	31.55667
OR2580m61	mmu-miR-92b	29.23333
OR291m157	U6 snRNA	24.36667
OR291m157	mmu-miR-10a	29.5
OR291m157	mmu-miR-127	32.27667
OR291m157	mmu-miR-132	31.82
OR291m157	mmu-miR-133a	30.88
OR291m157	mmu-miR-139-5p	31.4
OR291m157	mmu-miR-146b	29.91667
OR291m157	mmu-miR-148b	29.78333
OR291m157	mmu-miR-151-5p	27.19
OR291m157	mmu-miR-17*	32.08333
OR291m157	mmu-miR-181d	32.65333
OR291m157	mmu-miR-182	30.99667
OR291m157	mmu-miR-187	30.39
OR291m157	mmu-miR-192	32.20333
OR291m157	mmu-miR-193*	32.71
OR291m157	mmu-miR-193b	32.14667
OR291m157	mmu-miR-194	31.72667
OR291m157	mmu-miR-200a	26.51667
OR291m157	mmu-miR-203	33.05333
OR291m157	mmu-miR-210	30.48
OR291m157	mmu-miR-221	28.40667
OR291m157	mmu-miR-25	28.59333
OR291m157	mmu-miR-31	28.42333
OR291m157	mmu-miR-322	26.37333
OR291m157	mmu-miR-322*	30.6
OR291m157	mmu-miR-342-3p	28.92
OR291m157	mmu-miR-34a	28.89667
OR291m157	mmu-miR-34c	26.33
OR291m157	mmu-miR-351	29.18667
OR291m157	mmu-miR-375	30.36
OR291m157	mmu-miR-379	34.32667
OR291m157	mmu-miR-451	24.34
OR291m157	mmu-miR-486	28.84333
OR291m157	mmu-miR-489	32.17333
OR291m157	mmu-miR-497	27.21
OR291m157	mmu-miR-503	29.98667
OR291m157	mmu-miR-541	35.44667
OR291m157	mmu-miR-652	27.77333
OR291m157	mmu-miR-672	30.91667
OR291m157	mmu-miR-676	31.56333
OR291m157	mmu-miR-92b	29.88333
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OR3009m54	mmu-miR-139-5p	29.56333
OR3009m54	mmu-miR-146b	28.01333
OR3009m54	mmu-miR-148b	28.68667
OR3009m54	mmu-miR-151-5p	26.24333
OR3009m54	mmu-miR-17*	31.18
OR3009m54	mmu-miR-181d	30.83667
OR3009m54	mmu-miR-182	30.64667
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OR3009m54	mmu-miR-351	28.23333
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OR3009m54	mmu-miR-379	33.13334
OR3009m54	mmu-miR-451	23.16333
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OR3009m54	mmu-miR-652	26.87333
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OR3009m54	mmu-miR-92b	28.61
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OR3078m52	mmu-miR-34a	27.99667
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OR3078m52	mmu-miR-351	28.66667
OR3078m52	mmu-miR-375	30.09333
OR3078m52	mmu-miR-379	33.43667
OR3078m52	mmu-miR-451	23.59
OR3078m52	mmu-miR-486	27.60667
OR3078m52	mmu-miR-489	36.16333
OR3078m52	mmu-miR-497	26.05
OR3078m52	mmu-miR-503	29.61333
OR3078m52	mmu-miR-541	34.19
OR3078m52	mmu-miR-652	26.82
OR3078m52	mmu-miR-672	30.66667
OR3078m52	mmu-miR-676	30.06667
OR3078m52	mmu-miR-92b	28.69
OR3080m40	U6 snRNA	25.725
OR3080m40	mmu-miR-10a	30.83
OR3080m40	mmu-miR-127	33.01667
OR3080m40	mmu-miR-132	33
OR3080m40	mmu-miR-133a	28.48
OR3080m40	mmu-miR-139-5p	32.78
OR3080m40	mmu-miR-146b	30.15667
OR3080m40	mmu-miR-148b	30.93
OR3080m40	mmu-miR-151-5p	28.15333
OR3080m40	mmu-miR-17*	33.08333
OR3080m40	mmu-miR-181d	33.53
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OR3080m40	mmu-miR-187	31.68333
OR3080m40	mmu-miR-192	33.115
OR3080m40	mmu-miR-193*	33.40333
OR3080m40	mmu-miR-193b	32.38
OR3080m40	mmu-miR-194	32.73
OR3080m40	mmu-miR-200a	27.73
OR3080m40	mmu-miR-203	34.14333
OR3080m40	mmu-miR-210	31.62333
OR3080m40	mmu-miR-221	29.45
OR3080m40	mmu-miR-25	29.74667
OR3080m40	mmu-miR-31	29.84333
OR3080m40	mmu-miR-322	27.67333
OR3080m40	mmu-miR-322*	31.96333
OR3080m40	mmu-miR-342-3p	30.90667
OR3080m40	mmu-miR-34a	29.48
OR3080m40	mmu-miR-34c	27.66333
OR3080m40	mmu-miR-351	31.4
OR3080m40	mmu-miR-375	31.50333
OR3080m40	mmu-miR-379	35.75
OR3080m40	mmu-miR-451	25.09333
OR3080m40	mmu-miR-486	29.56333
OR3080m40	mmu-miR-489	33.16333
OR3080m40	mmu-miR-497	27.81333
OR3080m40	mmu-miR-503	31.48333
OR3080m40	mmu-miR-541	35.095
OR3080m40	mmu-miR-652	29.07
OR3080m40	mmu-miR-672	33.06334
OR3080m40	mmu-miR-676	32.21
OR3080m40	mmu-miR-92b	31.07333
OR3081m35	U6 snRNA	24.59667
OR3081m35	mmu-miR-10a	28.13
OR3081m35	mmu-miR-127	32.45667
OR3081m35	mmu-miR-132	30.95333

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OR3081m35	mmu-miR-133a	30.86667
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OR3081m35	mmu-miR-146b	28.63667
OR3081m35	mmu-miR-148b	29.24667
OR3081m35	mmu-miR-151-5p	26.29
OR3081m35	mmu-miR-17*	31.96
OR3081m35	mmu-miR-181d	32.01667
OR3081m35	mmu-miR-182	30.09
OR3081m35	mmu-miR-187	30.02333
OR3081m35	mmu-miR-192	31.11667
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OR3081m35	mmu-miR-193b	31.5
OR3081m35	mmu-miR-194	30.73667
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OR3081m35	mmu-miR-203	32.89
OR3081m35	mmu-miR-210	30.19
OR3081m35	mmu-miR-221	28.21333
OR3081m35	mmu-miR-25	28.19667
OR3081m35	mmu-miR-31	28.46667
OR3081m35	mmu-miR-322	26.33
OR3081m35	mmu-miR-322*	30.03333
OR3081m35	mmu-miR-342-3p	29.17
OR3081m35	mmu-miR-34a	28.47667
OR3081m35	mmu-miR-34c	26.86
OR3081m35	mmu-miR-351	29.22667
OR3081m35	mmu-miR-375	30.38
OR3081m35	mmu-miR-379	35.05333
OR3081m35	mmu-miR-451	23.45333
OR3081m35	mmu-miR-486	28.10333
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OR3081m35	mmu-miR-503	30.46
OR3081m35	mmu-miR-541	35.1
OR3081m35	mmu-miR-652	27.43667
OR3081m35	mmu-miR-672	31.48333
OR3081m35	mmu-miR-676	30.55333
OR3081m35	mmu-miR-92b	29.72667
OR3091m49	U6 snRNA	24.45333
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OR3091m49	mmu-miR-132	30.78667
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OR3091m49	mmu-miR-31	28.29
OR3091m49	mmu-miR-322	26
OR3091m49	mmu-miR-322*	29.39
OR3091m49	mmu-miR-342-3p	28.38
OR3091m49	mmu-miR-34a	28.78333
OR3091m49	mmu-miR-34c	26.92333
OR3091m49	mmu-miR-351	28.37333
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OR3091m49	mmu-miR-379	33.08

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OR3091m49	mmu-miR-486	28.23333
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OR3118m48	mmu-miR-148b	28.85667
OR3118m48	mmu-miR-151-5p	26.13
OR3118m48	mmu-miR-17*	31.37667
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OR3118m48	mmu-miR-192	30.32667
OR3118m48	mmu-miR-193*	31.38667
OR3118m48	mmu-miR-193b	31.33667
OR3118m48	mmu-miR-194	30.27
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OR3118m48	mmu-miR-221	27.39
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OR3118m48	mmu-miR-322	25.93
OR3118m48	mmu-miR-322*	29.35333
OR3118m48	mmu-miR-342-3p	28.23333
OR3118m48	mmu-miR-34a	27.98667
OR3118m48	mmu-miR-34c	26.23333
OR3118m48	mmu-miR-351	28.59333
OR3118m48	mmu-miR-375	29.77333
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OR3118m48	mmu-miR-451	22.74
OR3118m48	mmu-miR-486	27.04
OR3118m48	mmu-miR-489	40
OR3118m48	mmu-miR-497	26.28
OR3118m48	mmu-miR-503	29.38
OR3118m48	mmu-miR-541	34.65
OR3118m48	mmu-miR-652	27.21667
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OR3118m48	mmu-miR-676	30.21667
OR3118m48	mmu-miR-92b	29.05
OR3140m58	U6 snRNA	24.28667
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OR3140m58	mmu-miR-127	32.84
OR3140m58	mmu-miR-132	31.38667
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OR3140m58	mmu-miR-139-5p	30.40333
OR3140m58	mmu-miR-146b	29.25667
OR3140m58	mmu-miR-148b	29.29667
OR3140m58	mmu-miR-151-5p	26.55667
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OR3140m58	mmu-miR-192	30.96333
OR3140m58	mmu-miR-193*	32.41667
OR3140m58	mmu-miR-193b	31.42333
OR3140m58	mmu-miR-194	31.04333

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OR3140m58	mmu-miR-200a	26.6
OR3140m58	mmu-miR-203	32.63667
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OR3140m58	mmu-miR-489	40
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OR3140m58	mmu-miR-503	29.65333
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OR3140m58	mmu-miR-652	27.25
OR3140m58	mmu-miR-672	30.96333
OR3140m58	mmu-miR-676	30.62
OR3140m58	mmu-miR-92b	29.45333
OR3156m41	U6 snRNA	24.67
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OR3156m41	mmu-miR-127	31.00667
OR3156m41	mmu-miR-132	30.31333
OR3156m41	mmu-miR-133a	30.52
OR3156m41	mmu-miR-139-5p	30.33333
OR3156m41	mmu-miR-146b	28.50667
OR3156m41	mmu-miR-148b	28.96667
OR3156m41	mmu-miR-151-5p	26.71
OR3156m41	mmu-miR-17*	31.39
OR3156m41	mmu-miR-181d	31.35667
OR3156m41	mmu-miR-182	29.97667
OR3156m41	mmu-miR-187	30.54333
OR3156m41	mmu-miR-192	30.26333
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OR3156m41	mmu-miR-193b	30.93333
OR3156m41	mmu-miR-194	30.57667
OR3156m41	mmu-miR-200a	26.59667
OR3156m41	mmu-miR-203	31.13333
OR3156m41	mmu-miR-210	29.82
OR3156m41	mmu-miR-221	27.43333
OR3156m41	mmu-miR-25	27.82667
OR3156m41	mmu-miR-31	28.91667
OR3156m41	mmu-miR-322	26.69333
OR3156m41	mmu-miR-322*	30.78
OR3156m41	mmu-miR-342-3p	27.95667
OR3156m41	mmu-miR-34a	27.04667
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OR3156m41	mmu-miR-375	30.00333
OR3156m41	mmu-miR-379	33.70667
OR3156m41	mmu-miR-451	23.76333
OR3156m41	mmu-miR-486	28.05333
OR3156m41	mmu-miR-489	32.47667
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OR3156m41	mmu-miR-503	31.03667
OR3156m41	mmu-miR-541	33.41667
OR3156m41	mmu-miR-652	27.29333
OR3156m41	mmu-miR-672	30.90333
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OR3156m41	mmu-miR-92b	29.34667
OR3168m50	U6 snRNA	24.47
OR3168m50	mmu-miR-10a	28.28
OR3168m50	mmu-miR-127	32.08667

OR3168m50	mmu-miR-132	30.40667
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OR3168m50	mmu-miR-139-5p	30.24333
OR3168m50	mmu-miR-146b	28.44
OR3168m50	mmu-miR-148b	28.81333
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OR3168m50	mmu-miR-182	30.29333
OR3168m50	mmu-miR-187	29.25667
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OR3168m50	mmu-miR-193*	32.05667
OR3168m50	mmu-miR-193b	31.32333
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OR3168m50	mmu-miR-200a	26.39667
OR3168m50	mmu-miR-203	32
OR3168m50	mmu-miR-210	30.34
OR3168m50	mmu-miR-221	27.46333
OR3168m50	mmu-miR-25	27.78667
OR3168m50	mmu-miR-31	27.99333
OR3168m50	mmu-miR-322	26.43333
OR3168m50	mmu-miR-322*	29.43
OR3168m50	mmu-miR-342-3p	27.98333
OR3168m50	mmu-miR-34a	28.37333
OR3168m50	mmu-miR-34c	26.24667
OR3168m50	mmu-miR-351	28.78667
OR3168m50	mmu-miR-375	30.03333
OR3168m50	mmu-miR-379	34.23
OR3168m50	mmu-miR-451	23.23667
OR3168m50	mmu-miR-486	28.05333
OR3168m50	mmu-miR-489	33.59333
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OR3168m50	mmu-miR-541	34.57667
OR3168m50	mmu-miR-652	27.06
OR3168m50	mmu-miR-672	30.89
OR3168m50	mmu-miR-676	30.01333
OR3168m50	mmu-miR-92b	29.23667
OR3180m54	U6 snRNA	23.55667
OR3180m54	mmu-miR-10a	28.78333
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OR3180m54	mmu-miR-132	30.58
OR3180m54	mmu-miR-133a	31.63
OR3180m54	mmu-miR-139-5p	30.29
OR3180m54	mmu-miR-146b	27.88
OR3180m54	mmu-miR-148b	29.36333
OR3180m54	mmu-miR-151-5p	26.66667
OR3180m54	mmu-miR-17*	31.65333
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OR3180m54	mmu-miR-187	30.41
OR3180m54	mmu-miR-192	31.52333
OR3180m54	mmu-miR-193*	32.20333
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OR3180m54	mmu-miR-194	30.74667
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OR3180m54	mmu-miR-34a	28.23333
OR3180m54	mmu-miR-34c	28.35
OR3180m54	mmu-miR-351	29.50667
OR3180m54	mmu-miR-375	31.14333

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OR3181m52	mmu-miR-133a	32.11
OR3181m52	mmu-miR-139-5p	31.51
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OR3181m52	mmu-miR-148b	30.64
OR3181m52	mmu-miR-151-5p	27.14
OR3181m52	mmu-miR-17*	32.40333
OR3181m52	mmu-miR-181d	32.30333
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OR3181m52	mmu-miR-187	30.81667
OR3181m52	mmu-miR-192	32.41333
OR3181m52	mmu-miR-193*	32.54667
OR3181m52	mmu-miR-193b	32.42333
OR3181m52	mmu-miR-194	31.8
OR3181m52	mmu-miR-200a	28.35333
OR3181m52	mmu-miR-203	33.51
OR3181m52	mmu-miR-210	31.57
OR3181m52	mmu-miR-221	28.98667
OR3181m52	mmu-miR-25	28.81
OR3181m52	mmu-miR-31	29.25
OR3181m52	mmu-miR-322	28.43
OR3181m52	mmu-miR-322*	31.40333
OR3181m52	mmu-miR-342-3p	31.17333
OR3181m52	mmu-miR-34a	29.92
OR3181m52	mmu-miR-34c	29.94333
OR3181m52	mmu-miR-351	30.03
OR3181m52	mmu-miR-375	31.47667
OR3181m52	mmu-miR-379	36.34
OR3181m52	mmu-miR-451	24.2
OR3181m52	mmu-miR-486	27.70333
OR3181m52	mmu-miR-489	33.41
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OR3181m52	mmu-miR-541	35.935
OR3181m52	mmu-miR-652	27.79
OR3181m52	mmu-miR-672	32.05667
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OR3181m52	mmu-miR-92b	30.41667
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OR3232m54	mmu-miR-146b	28.67
OR3232m54	mmu-miR-148b	29.23333
OR3232m54	mmu-miR-151-5p	26.56667
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OR3232m54	mmu-miR-181d	32.15334
OR3232m54	mmu-miR-182	30.63667
OR3232m54	mmu-miR-187	29.96333
OR3232m54	mmu-miR-192	30.82667
OR3232m54	mmu-miR-193*	32.34333
OR3232m54	mmu-miR-193b	31.45

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OR3232m54	mmu-miR-194	30.65333
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OR3232m54	mmu-miR-31	28.10667
OR3232m54	mmu-miR-322	25.93
OR3232m54	mmu-miR-322*	29.42667
OR3232m54	mmu-miR-342-3p	28.96333
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OR3232m54	mmu-miR-34c	28.78333
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OR3232m54	mmu-miR-503	29
OR3232m54	mmu-miR-541	35.16
OR3232m54	mmu-miR-652	27.26
OR3232m54	mmu-miR-672	31.16667
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OR3232m54	mmu-miR-92b	30.55333
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OR3289m52	mmu-miR-672	30.72667
OR3289m52	mmu-miR-676	30.01333
OR3289m52	mmu-miR-92b	29.02
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OR3327m48	mmu-miR-146b	27.61333
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OR3389m51	mmu-miR-676	30.83
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OR3415m51	mmu-miR-92b	29.29333
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OR3513m61	mmu-miR-17*	32.08
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OR3513m61	mmu-miR-182	30.55
OR3513m61	mmu-miR-187	29.97333
OR3513m61	mmu-miR-192	31.43333
OR3513m61	mmu-miR-193*	31.81
OR3513m61	mmu-miR-193b	31.17667
OR3513m61	mmu-miR-194	31.26333
OR3513m61	mmu-miR-200a	26.68333
OR3513m61	mmu-miR-203	32.09667
OR3513m61	mmu-miR-210	30.45667
OR3513m61	mmu-miR-221	27.74333
OR3513m61	mmu-miR-25	27.90667
OR3513m61	mmu-miR-31	28.21333
OR3513m61	mmu-miR-322	27.74
OR3513m61	mmu-miR-322*	31.20333
OR3513m61	mmu-miR-342-3p	28.10667
OR3513m61	mmu-miR-34a	28.64667
OR3513m61	mmu-miR-34c	27.51667
OR3513m61	mmu-miR-351	30.24
OR3513m61	mmu-miR-375	30.19333
OR3513m61	mmu-miR-379	34.64
OR3513m61	mmu-miR-451	22.97667
OR3513m61	mmu-miR-486	27.12667
OR3513m61	mmu-miR-489	32.29667
OR3513m61	mmu-miR-497	27.27333
OR3513m61	mmu-miR-503	32.15
OR3513m61	mmu-miR-541	34.02
OR3513m61	mmu-miR-652	27.64333
OR3513m61	mmu-miR-672	30.24333
OR3513m61	mmu-miR-676	30.5
OR3513m61	mmu-miR-92b	29.82333

OR3515m67	U6 snRNA	24.17
OR3515m67	mmu-miR-10a	28.3
OR3515m67	mmu-miR-127	31.25667
OR3515m67	mmu-miR-132	30.8
OR3515m67	mmu-miR-133a	26.35667
OR3515m67	mmu-miR-139-5p	30.03333
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OR3515m67	mmu-miR-148b	28.78667
OR3515m67	mmu-miR-151-5p	25.98667
OR3515m67	mmu-miR-17*	31.28
OR3515m67	mmu-miR-181d	31.66333
OR3515m67	mmu-miR-182	29.97333
OR3515m67	mmu-miR-187	29.54333
OR3515m67	mmu-miR-192	30.38
OR3515m67	mmu-miR-193*	31.4
OR3515m67	mmu-miR-193b	30.08333
OR3515m67	mmu-miR-194	30.12
OR3515m67	mmu-miR-200a	26.23667
OR3515m67	mmu-miR-203	33.995
OR3515m67	mmu-miR-210	29.92
OR3515m67	mmu-miR-221	27.79
OR3515m67	mmu-miR-25	27.42667
OR3515m67	mmu-miR-31	27.92333
OR3515m67	mmu-miR-322	25.63
OR3515m67	mmu-miR-322*	29.88
OR3515m67	mmu-miR-342-3p	28.33667
OR3515m67	mmu-miR-34a	28.00333
OR3515m67	mmu-miR-34c	25.90667
OR3515m67	mmu-miR-351	29.48667
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OR3515m67	mmu-miR-379	33.85333
OR3515m67	mmu-miR-451	22.35
OR3515m67	mmu-miR-486	26.75
OR3515m67	mmu-miR-489	32.7
OR3515m67	mmu-miR-497	26.07333
OR3515m67	mmu-miR-503	29.83
OR3515m67	mmu-miR-541	33.38
OR3515m67	mmu-miR-652	27.60667
OR3515m67	mmu-miR-672	31.39333
OR3515m67	mmu-miR-676	30.16333
OR3515m67	mmu-miR-92b	28.97667
OR3549m47	U6 snRNA	23.30667
OR3549m47	mmu-miR-10a	28.24
OR3549m47	mmu-miR-127	31.52667
OR3549m47	mmu-miR-132	30.52
OR3549m47	mmu-miR-133a	31.08
OR3549m47	mmu-miR-139-5p	30.49
OR3549m47	mmu-miR-146b	29.3
OR3549m47	mmu-miR-148b	28.8
OR3549m47	mmu-miR-151-5p	26.09667
OR3549m47	mmu-miR-17*	31.12
OR3549m47	mmu-miR-181d	31.39
OR3549m47	mmu-miR-182	29.91
OR3549m47	mmu-miR-187	29.46333
OR3549m47	mmu-miR-192	30.22333
OR3549m47	mmu-miR-193*	31.92667
OR3549m47	mmu-miR-193b	31.69
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OR3549m47	mmu-miR-203	30.98667
OR3549m47	mmu-miR-210	29.95333
OR3549m47	mmu-miR-221	27.23667
OR3549m47	mmu-miR-25	27.62667
OR3549m47	mmu-miR-31	27.83333
OR3549m47	mmu-miR-322	25.57667
OR3549m47	mmu-miR-322*	29.84333
OR3549m47	mmu-miR-342-3p	28.94
OR3549m47	mmu-miR-34a	28.18333

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OR3549m47	mmu-miR-34c	26.33667
OR3549m47	mmu-miR-351	29
OR3549m47	mmu-miR-375	29.88
OR3549m47	mmu-miR-379	33.50667
OR3549m47	mmu-miR-451	23.14333
OR3549m47	mmu-miR-486	27.71333
OR3549m47	mmu-miR-489	30.89333
OR3549m47	mmu-miR-497	26.2
OR3549m47	mmu-miR-503	29.69667
OR3549m47	mmu-miR-541	34.01
OR3549m47	mmu-miR-652	27.30667
OR3549m47	mmu-miR-672	30.11333
OR3549m47	mmu-miR-676	30.1
OR3549m47	mmu-miR-92b	29.21333
OR3564m41	U6 snRNA	23.17667
OR3564m41	mmu-miR-10a	28.15667
OR3564m41	mmu-miR-127	30.84333
OR3564m41	mmu-miR-132	30.15667
OR3564m41	mmu-miR-133a	26.93
OR3564m41	mmu-miR-139-5p	29.87333
OR3564m41	mmu-miR-146b	28.22
OR3564m41	mmu-miR-148b	28.68333
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OR3564m41	mmu-miR-17*	30.9
OR3564m41	mmu-miR-181d	31.87333
OR3564m41	mmu-miR-182	29.8
OR3564m41	mmu-miR-187	29.78667
OR3564m41	mmu-miR-192	30.48333
OR3564m41	mmu-miR-193*	32.09
OR3564m41	mmu-miR-193b	30.89667
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OR3564m41	mmu-miR-200a	25.98333
OR3564m41	mmu-miR-203	31.72333
OR3564m41	mmu-miR-210	30.19
OR3564m41	mmu-miR-221	27.57
OR3564m41	mmu-miR-25	27.51
OR3564m41	mmu-miR-31	27.86333
OR3564m41	mmu-miR-322	25.20333
OR3564m41	mmu-miR-322*	29.11
OR3564m41	mmu-miR-342-3p	29.82
OR3564m41	mmu-miR-34a	28.28
OR3564m41	mmu-miR-34c	25.84
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OR3564m41	mmu-miR-375	28.56667
OR3564m41	mmu-miR-379	32.69
OR3564m41	mmu-miR-451	23.36333
OR3564m41	mmu-miR-486	27.42333
OR3564m41	mmu-miR-489	40
OR3564m41	mmu-miR-497	26.53
OR3564m41	mmu-miR-503	29.07333
OR3564m41	mmu-miR-541	32.95333
OR3564m41	mmu-miR-652	27.21667
OR3564m41	mmu-miR-672	30.27
OR3564m41	mmu-miR-676	29.76
OR3564m41	mmu-miR-92b	28.50667
OR3584m51	U6 snRNA	23.39
OR3584m51	mmu-miR-10a	29.62333
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OR3584m51	mmu-miR-132	31.87667
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OR3584m51	mmu-miR-139-5p	31.91333
OR3584m51	mmu-miR-146b	30.04333
OR3584m51	mmu-miR-148b	30.93667
OR3584m51	mmu-miR-151-5p	27.60667
OR3584m51	mmu-miR-17*	32.98333
OR3584m51	mmu-miR-181d	34.07667
OR3584m51	mmu-miR-182	32.20333
OR3584m51	mmu-miR-187	31.60333

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OR3584m51	mmu-miR-192	33.20667
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OR3584m51	mmu-miR-200a	29.25333
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OR3584m51	mmu-miR-210	32.06333
OR3584m51	mmu-miR-221	29.06667
OR3584m51	mmu-miR-25	29.29
OR3584m51	mmu-miR-31	29.12667
OR3584m51	mmu-miR-322	29.60333
OR3584m51	mmu-miR-322*	32.02667
OR3584m51	mmu-miR-342-3p	29.22667
OR3584m51	mmu-miR-34a	29.95
OR3584m51	mmu-miR-34c	31.21333
OR3584m51	mmu-miR-351	30.93667
OR3584m51	mmu-miR-375	32.45
OR3584m51	mmu-miR-379	35.59
OR3584m51	mmu-miR-451	25.71
OR3584m51	mmu-miR-486	28.50333
OR3584m51	mmu-miR-489	34.475
OR3584m51	mmu-miR-497	28.72667
OR3584m51	mmu-miR-503	33.37
OR3584m51	mmu-miR-541	34.61333
OR3584m51	mmu-miR-652	28.56
OR3584m51	mmu-miR-672	31.92667
OR3584m51	mmu-miR-676	31.75333
OR3584m51	mmu-miR-92b	30.77333
OR3594m47	U6 snRNA	23.73
OR3594m47	mmu-miR-10a	27.41
OR3594m47	mmu-miR-127	30.31
OR3594m47	mmu-miR-132	30.06333
OR3594m47	mmu-miR-133a	30.09667
OR3594m47	mmu-miR-139-5p	29.91667
OR3594m47	mmu-miR-146b	29.26667
OR3594m47	mmu-miR-148b	28.27333
OR3594m47	mmu-miR-151-5p	25.28667
OR3594m47	mmu-miR-17*	30.73
OR3594m47	mmu-miR-181d	30.89
OR3594m47	mmu-miR-182	28.67
OR3594m47	mmu-miR-187	28.61
OR3594m47	mmu-miR-192	29.86
OR3594m47	mmu-miR-193*	31.07333
OR3594m47	mmu-miR-193b	30.44667
OR3594m47	mmu-miR-194	30.13
OR3594m47	mmu-miR-200a	26.02333
OR3594m47	mmu-miR-203	31.92667
OR3594m47	mmu-miR-210	29.30333
OR3594m47	mmu-miR-221	27.13667
OR3594m47	mmu-miR-25	26.86
OR3594m47	mmu-miR-31	27.04333
OR3594m47	mmu-miR-322	24.32667
OR3594m47	mmu-miR-322*	28.25333
OR3594m47	mmu-miR-342-3p	27.17333
OR3594m47	mmu-miR-34a	27.11
OR3594m47	mmu-miR-34c	26.39
OR3594m47	mmu-miR-351	27.91667
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OR3594m47	mmu-miR-379	32.68667
OR3594m47	mmu-miR-451	21.74333
OR3594m47	mmu-miR-486	25.9
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OR3594m47	mmu-miR-503	28.45667
OR3594m47	mmu-miR-541	33.34666
OR3594m47	mmu-miR-652	26.22667
OR3594m47	mmu-miR-672	29.51
OR3594m47	mmu-miR-676	29.22667

OR3594m47	mmu-miR-92b	29.49333
OR3612m60	U6 snRNA	23.74
OR3612m60	mmu-miR-10a	29.3
OR3612m60	mmu-miR-127	32.42667
OR3612m60	mmu-miR-132	30.62333
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OR3612m60	mmu-miR-139-5p	30.28
OR3612m60	mmu-miR-146b	28.25
OR3612m60	mmu-miR-148b	29.44333
OR3612m60	mmu-miR-151-5p	27.23
OR3612m60	mmu-miR-17*	31.46
OR3612m60	mmu-miR-181d	32.20333
OR3612m60	mmu-miR-182	31.10667
OR3612m60	mmu-miR-187	30.86667
OR3612m60	mmu-miR-192	31.38333
OR3612m60	mmu-miR-193*	33.04667
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OR3612m60	mmu-miR-194	31.37333
OR3612m60	mmu-miR-200a	27.40667
OR3612m60	mmu-miR-203	32.87667
OR3612m60	mmu-miR-210	30.72
OR3612m60	mmu-miR-221	27.84
OR3612m60	mmu-miR-25	28.35333
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OR3612m60	mmu-miR-322	26.66333
OR3612m60	mmu-miR-322*	30.81
OR3612m60	mmu-miR-342-3p	29.31333
OR3612m60	mmu-miR-34a	28.69333
OR3612m60	mmu-miR-34c	27.64
OR3612m60	mmu-miR-351	29.12333
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OR3612m60	mmu-miR-379	34.66667
OR3612m60	mmu-miR-451	24.63
OR3612m60	mmu-miR-486	29.22
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OR380m69	mmu-miR-127	31.1
OR380m69	mmu-miR-132	31.28333
OR380m69	mmu-miR-133a	28.31667
OR380m69	mmu-miR-139-5p	30.72333
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OR380m69	mmu-miR-148b	29.08667
OR380m69	mmu-miR-151-5p	26.39667
OR380m69	mmu-miR-17*	31.88333
OR380m69	mmu-miR-181d	31.95333
OR380m69	mmu-miR-182	30.51667
OR380m69	mmu-miR-187	29.8
OR380m69	mmu-miR-192	30.81
OR380m69	mmu-miR-193*	32.45333
OR380m69	mmu-miR-193b	31.00667
OR380m69	mmu-miR-194	30.75667
OR380m69	mmu-miR-200a	26.32667
OR380m69	mmu-miR-203	32.73667
OR380m69	mmu-miR-210	30.27667
OR380m69	mmu-miR-221	27.87
OR380m69	mmu-miR-25	28.15667
OR380m69	mmu-miR-31	27.82667
OR380m69	mmu-miR-322	26.37333
OR380m69	mmu-miR-322*	30.21
OR380m69	mmu-miR-342-3p	28.66667

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OR380m69	mmu-miR-34a	28.28
OR380m69	mmu-miR-34c	26.79
OR380m69	mmu-miR-351	29.73
OR380m69	mmu-miR-375	29.50333
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OR380m69	mmu-miR-489	33.34666
OR380m69	mmu-miR-497	26.91333
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OR380m69	mmu-miR-541	33.02
OR380m69	mmu-miR-652	27.16333
OR380m69	mmu-miR-672	30.49333
OR380m69	mmu-miR-676	30.26333
OR380m69	mmu-miR-92b	28.71667
OR381m65	U6 snRNA	23.87667
OR381m65	mmu-miR-10a	29.16
OR381m65	mmu-miR-127	32.25667
OR381m65	mmu-miR-132	29.72
OR381m65	mmu-miR-133a	32.34333
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OR381m65	mmu-miR-146b	28.00667
OR381m65	mmu-miR-148b	29.1
OR381m65	mmu-miR-151-5p	27.07333
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OR381m65	mmu-miR-181d	32.04
OR381m65	mmu-miR-182	30.95
OR381m65	mmu-miR-187	31.05333
OR381m65	mmu-miR-192	31.28
OR381m65	mmu-miR-193*	32.63
OR381m65	mmu-miR-193b	31.76
OR381m65	mmu-miR-194	30.70667
OR381m65	mmu-miR-200a	27.09
OR381m65	mmu-miR-203	33.12
OR381m65	mmu-miR-210	27.91
OR381m65	mmu-miR-221	27.76333
OR381m65	mmu-miR-25	27.68667
OR381m65	mmu-miR-31	29.01
OR381m65	mmu-miR-322	26.14
OR381m65	mmu-miR-322*	30.65333
OR381m65	mmu-miR-342-3p	29.61667
OR381m65	mmu-miR-34a	28.49667
OR381m65	mmu-miR-34c	27.66
OR381m65	mmu-miR-351	29.65667
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OR381m65	mmu-miR-489	33.17
OR381m65	mmu-miR-497	27.12
OR381m65	mmu-miR-503	30.20333
OR381m65	mmu-miR-541	33.77
OR381m65	mmu-miR-652	27.57
OR381m65	mmu-miR-672	31.66
OR381m65	mmu-miR-676	31.51333
OR381m65	mmu-miR-92b	30.35333
OR4010m155	U6 snRNA	24.20667
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OR4010m155	mmu-miR-139-5p	29.69667
OR4010m155	mmu-miR-146b	29.79
OR4010m155	mmu-miR-148b	29.12
OR4010m155	mmu-miR-151-5p	26.37333
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OR4010m155	mmu-miR-181d	32.70667
OR4010m155	mmu-miR-182	30.42667

OR4010m155	mmu-miR-187	30.46333
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OR4010m155	mmu-miR-193*	32.15
OR4010m155	mmu-miR-193b	30.84667
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OR4010m155	mmu-miR-25	27.94667
OR4010m155	mmu-miR-31	28.13
OR4010m155	mmu-miR-322	25.45667
OR4010m155	mmu-miR-322*	29.38
OR4010m155	mmu-miR-342-3p	29.35667
OR4010m155	mmu-miR-34a	28.21
OR4010m155	mmu-miR-34c	25.71667
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OR4010m155	mmu-miR-379	34.06
OR4010m155	mmu-miR-451	24.34333
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OR4010m155	mmu-miR-489	36.32333
OR4010m155	mmu-miR-497	26.52667
OR4010m155	mmu-miR-503	29.42
OR4010m155	mmu-miR-541	33.59667
OR4010m155	mmu-miR-652	27.25
OR4010m155	mmu-miR-672	31.31667
OR4010m155	mmu-miR-676	30.52
OR4010m155	mmu-miR-92b	29.07
OR4078m152	U6 snRNA	23.67667
OR4078m152	mmu-miR-10a	30.15333
OR4078m152	mmu-miR-127	30.89333
OR4078m152	mmu-miR-132	30.8
OR4078m152	mmu-miR-133a	28.38333
OR4078m152	mmu-miR-139-5p	30.37
OR4078m152	mmu-miR-146b	28.41333
OR4078m152	mmu-miR-148b	29.40667
OR4078m152	mmu-miR-151-5p	26.87
OR4078m152	mmu-miR-17*	31.36
OR4078m152	mmu-miR-181d	33.05667
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OR4078m152	mmu-miR-193*	32.49
OR4078m152	mmu-miR-193b	31.65667
OR4078m152	mmu-miR-194	31.37
OR4078m152	mmu-miR-200a	26.62
OR4078m152	mmu-miR-203	33.25
OR4078m152	mmu-miR-210	29.92667
OR4078m152	mmu-miR-221	28.23333
OR4078m152	mmu-miR-25	28.125
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OR4078m152	mmu-miR-322	26.38
OR4078m152	mmu-miR-322*	30.80667
OR4078m152	mmu-miR-342-3p	28.99
OR4078m152	mmu-miR-34a	28.64
OR4078m152	mmu-miR-34c	26.36333
OR4078m152	mmu-miR-351	29.3
OR4078m152	mmu-miR-375	30.52
OR4078m152	mmu-miR-379	33.32667
OR4078m152	mmu-miR-451	22.75
OR4078m152	mmu-miR-486	27.89
OR4078m152	mmu-miR-489	40
OR4078m152	mmu-miR-497	27.32333
OR4078m152	mmu-miR-503	30.26667
OR4078m152	mmu-miR-541	32.43
OR4078m152	mmu-miR-652	27.56333
OR4078m152	mmu-miR-672	31.20333

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OR4078m152	mmu-miR-676	31.01667
OR4078m152	mmu-miR-92b	29.08
OR4179m174	U6 snRNA	23.56
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OR4179m174	mmu-miR-127	32.10333
OR4179m174	mmu-miR-132	31.13333
OR4179m174	mmu-miR-133a	31.76667
OR4179m174	mmu-miR-139-5p	30.15667
OR4179m174	mmu-miR-146b	29.13667
OR4179m174	mmu-miR-148b	29.18667
OR4179m174	mmu-miR-151-5p	26.67
OR4179m174	mmu-miR-17*	31.67667
OR4179m174	mmu-miR-181d	31.58
OR4179m174	mmu-miR-182	30.51333
OR4179m174	mmu-miR-187	30.62333
OR4179m174	mmu-miR-192	30.92333
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OR4179m174	mmu-miR-194	30.63
OR4179m174	mmu-miR-200a	26.41333
OR4179m174	mmu-miR-203	31.24333
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OR4179m174	mmu-miR-25	27.99333
OR4179m174	mmu-miR-31	28.07667
OR4179m174	mmu-miR-322	26.02667
OR4179m174	mmu-miR-322*	30.19667
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OR4179m174	mmu-miR-34a	28.54
OR4179m174	mmu-miR-34c	26.96
OR4179m174	mmu-miR-351	29.10333
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OR4179m174	mmu-miR-379	34.04667
OR4179m174	mmu-miR-451	23.97
OR4179m174	mmu-miR-486	28.27
OR4179m174	mmu-miR-489	40
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OR4179m174	mmu-miR-503	29.75
OR4179m174	mmu-miR-541	33.65
OR4179m174	mmu-miR-652	27.63667
OR4179m174	mmu-miR-672	31.23
OR4179m174	mmu-miR-676	30.65333
OR4179m174	mmu-miR-92b	29.66333
OR41m114	U6 snRNA	23.7
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OR41m114	mmu-miR-132	29.53
OR41m114	mmu-miR-133a	29.04667
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OR41m114	mmu-miR-34c	26.37
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OR41m114	mmu-miR-503	31.67667
OR41m114	mmu-miR-541	32.9
OR41m114	mmu-miR-652	27.61667
OR41m114	mmu-miR-672	30.89
OR41m114	mmu-miR-676	30.60333
OR41m114	mmu-miR-92b	29.26
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OR4251m142	mmu-miR-375	29.89
OR4251m142	mmu-miR-379	33.47667
OR4251m142	mmu-miR-451	24.29
OR4251m142	mmu-miR-486	28.41
OR4251m142	mmu-miR-489	34.13667
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OR4251m142	mmu-miR-652	27.68667
OR4251m142	mmu-miR-672	31.00667
OR4251m142	mmu-miR-676	30.96667
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OR4390m150	mmu-miR-139-5p	29.73
OR4390m150	mmu-miR-146b	27.89333
OR4390m150	mmu-miR-148b	29.17
OR4390m150	mmu-miR-151-5p	27.17
OR4390m150	mmu-miR-17*	31.6
OR4390m150	mmu-miR-181d	31.95333

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OR4390m150	mmu-miR-187	30.30667
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OR4390m150	mmu-miR-375	30.27667
OR4390m150	mmu-miR-379	33.03
OR4390m150	mmu-miR-451	23.05667
OR4390m150	mmu-miR-486	27.81
OR4390m150	mmu-miR-489	40
OR4390m150	mmu-miR-497	27.8
OR4390m150	mmu-miR-503	30.47667
OR4390m150	mmu-miR-541	32.99333
OR4390m150	mmu-miR-652	27.44333
OR4390m150	mmu-miR-672	31.25
OR4390m150	mmu-miR-676	31.10333
OR4390m150	mmu-miR-92b	29.88333
OR4410m171	U6 snRNA	23.35
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OR4410m171	mmu-miR-132	30.61667
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OR4410m171	mmu-miR-139-5p	30.24667
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OR4410m171	mmu-miR-148b	29.10333
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OR4410m171	mmu-miR-181d	31.72667
OR4410m171	mmu-miR-182	30.18667
OR4410m171	mmu-miR-187	30.27
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OR4410m171	mmu-miR-193*	32.27
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OR4410m171	mmu-miR-379	34.53
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OR4410m171	mmu-miR-489	40
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OR4410m171	mmu-miR-503	28.97667
OR4410m171	mmu-miR-541	34.01333
OR4410m171	mmu-miR-652	27.29667

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OR4410m171	mmu-miR-676	30.4
OR4410m171	mmu-miR-92b	29.97
OR4445m141	U6 snRNA	23.99333
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OR4445m141	mmu-miR-148b	29.13667
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OR4445m141	mmu-miR-181d	31.86
OR4445m141	mmu-miR-182	30.4
OR4445m141	mmu-miR-187	29.83667
OR4445m141	mmu-miR-192	30.75667
OR4445m141	mmu-miR-193*	31.84333
OR4445m141	mmu-miR-193b	31.73333
OR4445m141	mmu-miR-194	30.35667
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OR4445m141	mmu-miR-342-3p	30.10333
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OR4445m141	mmu-miR-34c	25.88
OR4445m141	mmu-miR-351	29.81333
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OR4445m141	mmu-miR-486	27.75667
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OR4445m141	mmu-miR-652	27.14
OR4445m141	mmu-miR-672	30.76333
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OR4445m141	mmu-miR-92b	29.38333
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OR462m61	mmu-miR-127	31.88
OR462m61	mmu-miR-132	31.20333
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OR462m61	mmu-miR-139-5p	30.95
OR462m61	mmu-miR-146b	29.28667
OR462m61	mmu-miR-148b	29.49667
OR462m61	mmu-miR-151-5p	26.58667
OR462m61	mmu-miR-17*	31.84667
OR462m61	mmu-miR-181d	31.72333
OR462m61	mmu-miR-182	30.87667
OR462m61	mmu-miR-187	30.29
OR462m61	mmu-miR-192	31.12667
OR462m61	mmu-miR-193*	32.39667
OR462m61	mmu-miR-193b	31.62
OR462m61	mmu-miR-194	31.24667
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OR462m61	mmu-miR-210	30.54
OR462m61	mmu-miR-221	27.97667
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OR462m61	mmu-miR-322	26.5

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OR462m61	mmu-miR-652	27.48
OR462m61	mmu-miR-672	30.56333
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OR462m61	mmu-miR-92b	29.58
OR477m143	U6 snRNA	24.53667
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OR477m143	mmu-miR-132	31.55
OR477m143	mmu-miR-133a	29.50667
OR477m143	mmu-miR-139-5p	31.04667
OR477m143	mmu-miR-146b	29.94
OR477m143	mmu-miR-148b	29.67
OR477m143	mmu-miR-151-5p	26.84
OR477m143	mmu-miR-17*	31.88667
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OR477m143	mmu-miR-652	28.27
OR477m143	mmu-miR-672	31.72
OR477m143	mmu-miR-676	30.46667
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OR489m79	mmu-miR-133a	29.18
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OR489m79	mmu-miR-148b	29.36333
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OR489m79	mmu-miR-541	34.49
OR489m79	mmu-miR-652	28.38
OR489m79	mmu-miR-672	31.29667
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OR5019m130	mmu-miR-139-5p	30.93667
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OR5019m130	mmu-miR-148b	29.31
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OR5019m130	mmu-miR-17*	30.66333
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OR5019m130	mmu-miR-489	34.62667
OR5019m130	mmu-miR-497	26.47
OR5019m130	mmu-miR-503	30.08667
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OR5046m132	mmu-miR-652	27.5
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OR5232m137	mmu-miR-375	29.71
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OR5232m137	mmu-miR-489	31.94333
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OR5232m137	mmu-miR-652	26.57
OR5232m137	mmu-miR-672	30.50667
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OR5252m131	mmu-miR-148b	28.76333
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OR5389m137	mmu-miR-489	40
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OR5389m137	mmu-miR-503	28.20333
OR5389m137	mmu-miR-541	32.96667
OR5389m137	mmu-miR-652	26.74
OR5389m137	mmu-miR-672	30.69667
OR5389m137	mmu-miR-676	29.49333
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OR538m149	mmu-miR-148b	29.21667
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OR538m149	mmu-miR-187	29.68667
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OR538m149	mmu-miR-672	32.06
OR538m149	mmu-miR-676	30.27
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OR5480m136	mmu-miR-497	26.39
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OR5480m136	mmu-miR-541	35.39667
OR5480m136	mmu-miR-652	27.16667
OR5480m136	mmu-miR-672	31.03
OR5480m136	mmu-miR-676	29.72333
OR5480m136	mmu-miR-92b	29.38
OR549m62	U6 snRNA	23.61333
OR549m62	mmu-miR-10a	29.83
OR549m62	mmu-miR-127	32.40334
OR549m62	mmu-miR-132	31.66
OR549m62	mmu-miR-133a	29.62
OR549m62	mmu-miR-139-5p	30.55
OR549m62	mmu-miR-146b	29.14
OR549m62	mmu-miR-148b	29.57667
OR549m62	mmu-miR-151-5p	27.16
OR549m62	mmu-miR-17*	31.81333
OR549m62	mmu-miR-181d	32.55
OR549m62	mmu-miR-182	30.30333
OR549m62	mmu-miR-187	30.53333
OR549m62	mmu-miR-192	31.64667
OR549m62	mmu-miR-193*	32.51667
OR549m62	mmu-miR-193b	32.26333
OR549m62	mmu-miR-194	31.54333
OR549m62	mmu-miR-200a	26.39
OR549m62	mmu-miR-203	32.22667

OR549m62	mmu-miR-210	29.64333
OR549m62	mmu-miR-221	28.23667
OR549m62	mmu-miR-25	28.17
OR549m62	mmu-miR-31	28.31
OR549m62	mmu-miR-322	25.98667
OR549m62	mmu-miR-322*	29.94333
OR549m62	mmu-miR-342-3p	28.65667
OR549m62	mmu-miR-34a	28.49667
OR549m62	mmu-miR-34c	26.72333
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OR549m62	mmu-miR-375	30.14667
OR549m62	mmu-miR-379	34.43333
OR549m62	mmu-miR-451	24.46
OR549m62	mmu-miR-486	28.61667
OR549m62	mmu-miR-489	31.91667
OR549m62	mmu-miR-497	27.17333
OR549m62	mmu-miR-503	29.31
OR549m62	mmu-miR-541	34.34
OR549m62	mmu-miR-652	27.50333
OR549m62	mmu-miR-672	31.4
OR549m62	mmu-miR-676	30.89333
OR549m62	mmu-miR-92b	29.62
OR5515m126	U6 snRNA	23.86667
OR5515m126	mmu-miR-10a	27.76667
OR5515m126	mmu-miR-127	30.44667
OR5515m126	mmu-miR-132	30.16667
OR5515m126	mmu-miR-133a	29.79333
OR5515m126	mmu-miR-139-5p	30.01333
OR5515m126	mmu-miR-146b	28.20667
OR5515m126	mmu-miR-148b	28.33
OR5515m126	mmu-miR-151-5p	25.52
OR5515m126	mmu-miR-17*	30.93667
OR5515m126	mmu-miR-181d	30.34
OR5515m126	mmu-miR-182	29.11333
OR5515m126	mmu-miR-187	28.97667
OR5515m126	mmu-miR-192	30.44333
OR5515m126	mmu-miR-193*	30.98667
OR5515m126	mmu-miR-193b	30.49
OR5515m126	mmu-miR-194	30.08
OR5515m126	mmu-miR-200a	25.11
OR5515m126	mmu-miR-203	30.89
OR5515m126	mmu-miR-210	29.16667
OR5515m126	mmu-miR-221	27.02
OR5515m126	mmu-miR-25	27.17667
OR5515m126	mmu-miR-31	27.08333
OR5515m126	mmu-miR-322	25.39
OR5515m126	mmu-miR-322*	29.21
OR5515m126	mmu-miR-342-3p	27.5
OR5515m126	mmu-miR-34a	27.9
OR5515m126	mmu-miR-34c	25.33
OR5515m126	mmu-miR-351	28.5
OR5515m126	mmu-miR-375	29.00667
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OR5515m126	mmu-miR-489	31.22333
OR5515m126	mmu-miR-497	25.67333
OR5515m126	mmu-miR-503	29.41333
OR5515m126	mmu-miR-541	33.57333
OR5515m126	mmu-miR-652	26.22333
OR5515m126	mmu-miR-672	30.21333
OR5515m126	mmu-miR-676	29.62333
OR5515m126	mmu-miR-92b	28.32
OR5516m139	U6 snRNA	24.15
OR5516m139	mmu-miR-10a	28.62333
OR5516m139	mmu-miR-127	31.44667
OR5516m139	mmu-miR-132	30.93667
OR5516m139	mmu-miR-133a	31.24667

OR5516m139	mmu-miR-139-5p	30.37667
OR5516m139	mmu-miR-146b	28.6
OR5516m139	mmu-miR-148b	29.41
OR5516m139	mmu-miR-151-5p	26.77333
OR5516m139	mmu-miR-17*	31.88333
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OR5516m139	mmu-miR-182	30.57667
OR5516m139	mmu-miR-187	31.52
OR5516m139	mmu-miR-192	31.49333
OR5516m139	mmu-miR-193*	32.25333
OR5516m139	mmu-miR-193b	32.07667
OR5516m139	mmu-miR-194	31.3
OR5516m139	mmu-miR-200a	26.89333
OR5516m139	mmu-miR-203	32.53667
OR5516m139	mmu-miR-210	30.47667
OR5516m139	mmu-miR-221	27.97
OR5516m139	mmu-miR-25	28.09333
OR5516m139	mmu-miR-31	27.95333
OR5516m139	mmu-miR-322	26.04333
OR5516m139	mmu-miR-322*	30.06
OR5516m139	mmu-miR-342-3p	30.44
OR5516m139	mmu-miR-34a	29.22333
OR5516m139	mmu-miR-34c	27.69667
OR5516m139	mmu-miR-351	28.9
OR5516m139	mmu-miR-375	30.2
OR5516m139	mmu-miR-379	33.00667
OR5516m139	mmu-miR-451	24.8
OR5516m139	mmu-miR-486	28.43667
OR5516m139	mmu-miR-489	40
OR5516m139	mmu-miR-497	27.3
OR5516m139	mmu-miR-503	29.75
OR5516m139	mmu-miR-541	33.37
OR5516m139	mmu-miR-652	27.15333
OR5516m139	mmu-miR-672	31.06
OR5516m139	mmu-miR-676	30.72667
OR5516m139	mmu-miR-92b	29.99
OR5528m164	U6 snRNA	24.16
OR5528m164	mmu-miR-10a	28.14
OR5528m164	mmu-miR-127	32.41667
OR5528m164	mmu-miR-132	31.24333
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OR5528m164	mmu-miR-139-5p	30.94333
OR5528m164	mmu-miR-146b	29.47333
OR5528m164	mmu-miR-148b	29.25
OR5528m164	mmu-miR-151-5p	26.33
OR5528m164	mmu-miR-17*	31.85
OR5528m164	mmu-miR-181d	32.19
OR5528m164	mmu-miR-182	30.87667
OR5528m164	mmu-miR-187	30.36333
OR5528m164	mmu-miR-192	30.87
OR5528m164	mmu-miR-193*	31.84333
OR5528m164	mmu-miR-193b	31.44333
OR5528m164	mmu-miR-194	30.8
OR5528m164	mmu-miR-200a	26.81
OR5528m164	mmu-miR-203	32.67667
OR5528m164	mmu-miR-210	30.21333
OR5528m164	mmu-miR-221	27.32333
OR5528m164	mmu-miR-25	27.69
OR5528m164	mmu-miR-31	28.56
OR5528m164	mmu-miR-322	26.33
OR5528m164	mmu-miR-322*	29.765
OR5528m164	mmu-miR-342-3p	28.27667
OR5528m164	mmu-miR-34a	28.35667
OR5528m164	mmu-miR-34c	27.12667
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OR5528m164	mmu-miR-375	30.94667
OR5528m164	mmu-miR-379	34.93
OR5528m164	mmu-miR-451	22.85

OR5528m164	mmu-miR-486	27.04333
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OR5528m164	mmu-miR-497	26.97
OR5528m164	mmu-miR-503	30.71333
OR5528m164	mmu-miR-541	35.66333
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OR5546m131	mmu-miR-10a	30.51333
OR5546m131	mmu-miR-127	31.62333
OR5546m131	mmu-miR-132	31.5
OR5546m131	mmu-miR-133a	22.57333
OR5546m131	mmu-miR-139-5p	30.22333
OR5546m131	mmu-miR-146b	29.675
OR5546m131	mmu-miR-148b	30.77667
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OR5546m131	mmu-miR-181d	33.58333
OR5546m131	mmu-miR-182	31.80333
OR5546m131	mmu-miR-187	31.83667
OR5546m131	mmu-miR-192	32.41667
OR5546m131	mmu-miR-193*	33.69667
OR5546m131	mmu-miR-193b	31.82
OR5546m131	mmu-miR-194	32.00333
OR5546m131	mmu-miR-200a	28.41333
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OR5546m131	mmu-miR-221	29.12
OR5546m131	mmu-miR-25	29.23333
OR5546m131	mmu-miR-31	29.94667
OR5546m131	mmu-miR-322	27.72667
OR5546m131	mmu-miR-322*	31.05667
OR5546m131	mmu-miR-342-3p	30.00333
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OR5546m131	mmu-miR-34c	30.09333
OR5546m131	mmu-miR-351	29.91333
OR5546m131	mmu-miR-375	31.33667
OR5546m131	mmu-miR-379	34.39333
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OR5546m131	mmu-miR-672	32.5
OR5546m131	mmu-miR-676	31.85667
OR5546m131	mmu-miR-92b	31.99333
OR5549m133	U6 snRNA	24.12
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OR5549m133	mmu-miR-127	32.21
OR5549m133	mmu-miR-132	31.13333
OR5549m133	mmu-miR-133a	30.88333
OR5549m133	mmu-miR-139-5p	30.62333
OR5549m133	mmu-miR-146b	29.11
OR5549m133	mmu-miR-148b	29.26
OR5549m133	mmu-miR-151-5p	26.29667
OR5549m133	mmu-miR-17*	31.80667
OR5549m133	mmu-miR-181d	31.42333
OR5549m133	mmu-miR-182	31.32333
OR5549m133	mmu-miR-187	30.34
OR5549m133	mmu-miR-192	31.28333
OR5549m133	mmu-miR-193*	32.04667
OR5549m133	mmu-miR-193b	31.02667
OR5549m133	mmu-miR-194	31.22
OR5549m133	mmu-miR-200a	26.67333

OR5549m133	mmu-miR-203	32.62
OR5549m133	mmu-miR-210	30.40667
OR5549m133	mmu-miR-221	28.12667
OR5549m133	mmu-miR-25	28.09
OR5549m133	mmu-miR-31	28.23667
OR5549m133	mmu-miR-322	25.86
OR5549m133	mmu-miR-322*	29.47667
OR5549m133	mmu-miR-342-3p	28.33333
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OR5549m133	mmu-miR-34c	26.96667
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OR5549m133	mmu-miR-375	29.76333
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OR5549m133	mmu-miR-489	32.16
OR5549m133	mmu-miR-497	26.71
OR5549m133	mmu-miR-503	29.74
OR5549m133	mmu-miR-541	34.29333
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OR5549m133	mmu-miR-672	30.47
OR5549m133	mmu-miR-676	30.67333
OR5549m133	mmu-miR-92b	30.07333
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OR555m52	mmu-miR-132	31.71667
OR555m52	mmu-miR-133a	30.29
OR555m52	mmu-miR-139-5p	31.89
OR555m52	mmu-miR-146b	31.03667
OR555m52	mmu-miR-148b	30.08
OR555m52	mmu-miR-151-5p	28.01
OR555m52	mmu-miR-17*	31.84667
OR555m52	mmu-miR-181d	32.51
OR555m52	mmu-miR-182	32.04333
OR555m52	mmu-miR-187	31.30333
OR555m52	mmu-miR-192	31.41
OR555m52	mmu-miR-193*	33.4
OR555m52	mmu-miR-193b	32.27666
OR555m52	mmu-miR-194	31.29667
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OR555m52	mmu-miR-25	28.92
OR555m52	mmu-miR-31	29.29667
OR555m52	mmu-miR-322	26.28667
OR555m52	mmu-miR-322*	30.09
OR555m52	mmu-miR-342-3p	29.53333
OR555m52	mmu-miR-34a	28.82667
OR555m52	mmu-miR-34c	27.80667
OR555m52	mmu-miR-351	29.50667
OR555m52	mmu-miR-375	31.45333
OR555m52	mmu-miR-379	34.69667
OR555m52	mmu-miR-451	22.27
OR555m52	mmu-miR-486	28.26
OR555m52	mmu-miR-489	34.06333
OR555m52	mmu-miR-497	27.17667
OR555m52	mmu-miR-503	30.26333
OR555m52	mmu-miR-541	34.89
OR555m52	mmu-miR-652	29.01
OR555m52	mmu-miR-672	32.28
OR555m52	mmu-miR-676	31.35667
OR555m52	mmu-miR-92b	30.58667
OR559m152	U6 snRNA	24.4
OR559m152	mmu-miR-10a	29.55
OR559m152	mmu-miR-127	31.94667
OR559m152	mmu-miR-132	31.29

OR559m152	mmu-miR-133a	27.65667
OR559m152	mmu-miR-139-5p	30.42333
OR559m152	mmu-miR-146b	28.68333
OR559m152	mmu-miR-148b	29.94
OR559m152	mmu-miR-151-5p	27.15
OR559m152	mmu-miR-17*	32.05
OR559m152	mmu-miR-181d	32.7
OR559m152	mmu-miR-182	30.61333
OR559m152	mmu-miR-187	31.17
OR559m152	mmu-miR-192	31.25667
OR559m152	mmu-miR-193*	32.72333
OR559m152	mmu-miR-193b	31.69333
OR559m152	mmu-miR-194	31.22333
OR559m152	mmu-miR-200a	27.21
OR559m152	mmu-miR-203	32.28333
OR559m152	mmu-miR-210	30.52
OR559m152	mmu-miR-221	28.42667
OR559m152	mmu-miR-25	28.4
OR559m152	mmu-miR-31	28.62667
OR559m152	mmu-miR-322	27.23
OR559m152	mmu-miR-322*	31.65667
OR559m152	mmu-miR-342-3p	29.72333
OR559m152	mmu-miR-34a	28.96
OR559m152	mmu-miR-34c	26.83667
OR559m152	mmu-miR-351	30.91
OR559m152	mmu-miR-375	30.07667
OR559m152	mmu-miR-379	33.81334
OR559m152	mmu-miR-451	24.50667
OR559m152	mmu-miR-486	28.50333
OR559m152	mmu-miR-489	32.81667
OR559m152	mmu-miR-497	27.77667
OR559m152	mmu-miR-503	31.28
OR559m152	mmu-miR-541	33.55667
OR559m152	mmu-miR-652	28.06333
OR559m152	mmu-miR-672	31.89333
OR559m152	mmu-miR-676	30.75333
OR559m152	mmu-miR-92b	29.75667
OR5612m133	U6 snRNA	24.79667
OR5612m133	mmu-miR-10a	29.12
OR5612m133	mmu-miR-127	32.52333
OR5612m133	mmu-miR-132	31.29
OR5612m133	mmu-miR-133a	31.24667
OR5612m133	mmu-miR-139-5p	31.34
OR5612m133	mmu-miR-146b	30.75333
OR5612m133	mmu-miR-148b	29.50667
OR5612m133	mmu-miR-151-5p	26.59667
OR5612m133	mmu-miR-17*	32.15
OR5612m133	mmu-miR-181d	31.22333
OR5612m133	mmu-miR-182	30.16667
OR5612m133	mmu-miR-187	29.96333
OR5612m133	mmu-miR-192	31.22667
OR5612m133	mmu-miR-193*	32.7
OR5612m133	mmu-miR-193b	31.86
OR5612m133	mmu-miR-194	31.12667
OR5612m133	mmu-miR-200a	26.73333
OR5612m133	mmu-miR-203	32.73
OR5612m133	mmu-miR-210	30.81667
OR5612m133	mmu-miR-221	27.90667
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OR5612m133	mmu-miR-34c	27.04333
OR5612m133	mmu-miR-351	29.73333
OR5612m133	mmu-miR-375	30.48333
OR5612m133	mmu-miR-379	35.11333

OR5612m133	mmu-miR-451	22.90333
OR5612m133	mmu-miR-486	27.58667
OR5612m133	mmu-miR-489	40
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OR5612m133	mmu-miR-541	34.69667
OR5612m133	mmu-miR-652	27.65667
OR5612m133	mmu-miR-672	30.66333
OR5612m133	mmu-miR-676	31.04333
OR5612m133	mmu-miR-92b	29.60667
OR652m150	U6 snRNA	24.10333
OR652m150	mmu-miR-10a	30.37333
OR652m150	mmu-miR-127	31.57
OR652m150	mmu-miR-132	31.48667
OR652m150	mmu-miR-133a	29.27
OR652m150	mmu-miR-139-5p	31.75
OR652m150	mmu-miR-146b	29.39
OR652m150	mmu-miR-148b	29.5
OR652m150	mmu-miR-151-5p	27.36333
OR652m150	mmu-miR-17*	31.43
OR652m150	mmu-miR-181d	32.88667
OR652m150	mmu-miR-182	30.63
OR652m150	mmu-miR-187	31.18
OR652m150	mmu-miR-192	31.38333
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OR652m150	mmu-miR-193b	31.27667
OR652m150	mmu-miR-194	31.46333
OR652m150	mmu-miR-200a	27.30333
OR652m150	mmu-miR-203	34.30333
OR652m150	mmu-miR-210	30.26
OR652m150	mmu-miR-221	28.34
OR652m150	mmu-miR-25	28.72
OR652m150	mmu-miR-31	29.12333
OR652m150	mmu-miR-322	27.37
OR652m150	mmu-miR-322*	31.58333
OR652m150	mmu-miR-342-3p	28.75667
OR652m150	mmu-miR-34a	28.3
OR652m150	mmu-miR-34c	27.15667
OR652m150	mmu-miR-351	30.60667
OR652m150	mmu-miR-375	31.61
OR652m150	mmu-miR-379	34.33333
OR652m150	mmu-miR-451	24.24333
OR652m150	mmu-miR-486	28.48
OR652m150	mmu-miR-489	33.69
OR652m150	mmu-miR-497	27.13667
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OR652m150	mmu-miR-672	32.57
OR652m150	mmu-miR-676	31.2
OR652m150	mmu-miR-92b	30.81333
OR692m181	U6 snRNA	23.97333
OR692m181	mmu-miR-10a	27.53333
OR692m181	mmu-miR-127	30.86333
OR692m181	mmu-miR-132	30.53
OR692m181	mmu-miR-133a	30.85333
OR692m181	mmu-miR-139-5p	30.06333
OR692m181	mmu-miR-146b	27.39333
OR692m181	mmu-miR-148b	28.73
OR692m181	mmu-miR-151-5p	26.04333
OR692m181	mmu-miR-17*	31.22667
OR692m181	mmu-miR-181d	31.20667
OR692m181	mmu-miR-182	30.11
OR692m181	mmu-miR-187	29.79667
OR692m181	mmu-miR-192	30.64667
OR692m181	mmu-miR-193*	31.94333
OR692m181	mmu-miR-193b	31.25333
OR692m181	mmu-miR-194	30.62333

OR692m181	mmu-miR-200a	26.51333
OR692m181	mmu-miR-203	31.89333
OR692m181	mmu-miR-210	29.92
OR692m181	mmu-miR-221	27.64667
OR692m181	mmu-miR-25	27.64333
OR692m181	mmu-miR-31	27.87333
OR692m181	mmu-miR-322	26.40667
OR692m181	mmu-miR-322*	30.56
OR692m181	mmu-miR-342-3p	27.80667
OR692m181	mmu-miR-34a	27.59333
OR692m181	mmu-miR-34c	26.27
OR692m181	mmu-miR-351	29.78
OR692m181	mmu-miR-375	30.37333
OR692m181	mmu-miR-379	33.08333
OR692m181	mmu-miR-451	23.46667
OR692m181	mmu-miR-486	27.74667
OR692m181	mmu-miR-489	32.59
OR692m181	mmu-miR-497	26.64333
OR692m181	mmu-miR-503	30.90667
OR692m181	mmu-miR-541	33.30667
OR692m181	mmu-miR-652	26.69667
OR692m181	mmu-miR-672	30.03
OR692m181	mmu-miR-676	29.99
OR692m181	mmu-miR-92b	28.62
OR699m69	U6 snRNA	23.88667
OR699m69	mmu-miR-10a	29.39667
OR699m69	mmu-miR-127	32.31667
OR699m69	mmu-miR-132	31.64333
OR699m69	mmu-miR-133a	30.22667
OR699m69	mmu-miR-139-5p	31.34
OR699m69	mmu-miR-146b	28.5
OR699m69	mmu-miR-148b	29.57
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OR699m69	mmu-miR-182	30.65667
OR699m69	mmu-miR-187	30.41333
OR699m69	mmu-miR-192	31.22333
OR699m69	mmu-miR-193*	32.46667
OR699m69	mmu-miR-193b	31.46667
OR699m69	mmu-miR-194	31.34
OR699m69	mmu-miR-200a	27.01
OR699m69	mmu-miR-203	32.37
OR699m69	mmu-miR-210	30.28333
OR699m69	mmu-miR-221	27.69667
OR699m69	mmu-miR-25	28.19
OR699m69	mmu-miR-31	28.52333
OR699m69	mmu-miR-322	26.37333
OR699m69	mmu-miR-322*	29.76
OR699m69	mmu-miR-342-3p	28.63333
OR699m69	mmu-miR-34a	28.13667
OR699m69	mmu-miR-34c	26.86333
OR699m69	mmu-miR-351	28.99667
OR699m69	mmu-miR-375	31.14
OR699m69	mmu-miR-379	34.48333
OR699m69	mmu-miR-451	23.87333
OR699m69	mmu-miR-486	28.06333
OR699m69	mmu-miR-489	32.19
OR699m69	mmu-miR-497	26.98
OR699m69	mmu-miR-503	29.62333
OR699m69	mmu-miR-541	33.92
OR699m69	mmu-miR-652	27.89
OR699m69	mmu-miR-672	30.61333
OR699m69	mmu-miR-676	30.56667
OR699m69	mmu-miR-92b	29.40333
OR739m165	U6 snRNA	24.97667
OR739m165	mmu-miR-10a	29.22
OR739m165	mmu-miR-127	32.21667

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OR739m165	mmu-miR-132	31.385
OR739m165	mmu-miR-133a	32.2
OR739m165	mmu-miR-139-5p	31.2
OR739m165	mmu-miR-146b	28.36333
OR739m165	mmu-miR-148b	29.76667
OR739m165	mmu-miR-151-5p	27.09333
OR739m165	mmu-miR-17*	32.33333
OR739m165	mmu-miR-181d	32.62333
OR739m165	mmu-miR-182	31.24667
OR739m165	mmu-miR-187	30.33667
OR739m165	mmu-miR-192	31.21333
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OR739m165	mmu-miR-193b	31.78333
OR739m165	mmu-miR-194	31
OR739m165	mmu-miR-200a	27.03333
OR739m165	mmu-miR-203	32.95667
OR739m165	mmu-miR-210	28.17
OR739m165	mmu-miR-221	28.37
OR739m165	mmu-miR-25	28.24333
OR739m165	mmu-miR-31	28.47667
OR739m165	mmu-miR-322	27.34333
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OR739m165	mmu-miR-34c	28.86333
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OR739m165	mmu-miR-375	31.92
OR739m165	mmu-miR-379	34.66333
OR739m165	mmu-miR-451	23.30667
OR739m165	mmu-miR-486	27.51333
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OR739m165	mmu-miR-503	32.09
OR739m165	mmu-miR-541	34.91
OR739m165	mmu-miR-652	28.16
OR739m165	mmu-miR-672	30.35333
OR739m165	mmu-miR-676	30.97667
OR739m165	mmu-miR-92b	30.68667
OR773m68	U6 snRNA	24.45
OR773m68	mmu-miR-10a	29.35667
OR773m68	mmu-miR-127	31.2
OR773m68	mmu-miR-132	30.93333
OR773m68	mmu-miR-133a	27.7
OR773m68	mmu-miR-139-5p	30.93
OR773m68	mmu-miR-146b	28.89333
OR773m68	mmu-miR-148b	29.55667
OR773m68	mmu-miR-151-5p	27.24
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OR773m68	mmu-miR-182	30.41667
OR773m68	mmu-miR-187	30.51333
OR773m68	mmu-miR-192	31.10667
OR773m68	mmu-miR-193*	32.95667
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OR773m68	mmu-miR-194	31.27
OR773m68	mmu-miR-200a	26.34333
OR773m68	mmu-miR-203	32.26
OR773m68	mmu-miR-210	30.275
OR773m68	mmu-miR-221	29.05333
OR773m68	mmu-miR-25	28.17
OR773m68	mmu-miR-31	28.83333
OR773m68	mmu-miR-322	26.26667
OR773m68	mmu-miR-322*	31.09333
OR773m68	mmu-miR-342-3p	29
OR773m68	mmu-miR-34a	28.83667
OR773m68	mmu-miR-34c	26.03
OR773m68	mmu-miR-351	29.62333
OR773m68	mmu-miR-375	29.19667

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OR773m68	mmu-miR-379	33.51
OR773m68	mmu-miR-451	23.14333
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OR773m68	mmu-miR-497	27.50333
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OR773m68	mmu-miR-541	32.70667
OR773m68	mmu-miR-652	27.49333
OR773m68	mmu-miR-672	31.36
OR773m68	mmu-miR-676	31
OR773m68	mmu-miR-92b	29.23333
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OR779m146	mmu-miR-10a	29.69
OR779m146	mmu-miR-127	31.39333
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OR779m146	mmu-miR-139-5p	30.68
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OR779m146	mmu-miR-148b	29.45
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OR779m146	mmu-miR-17*	32.03333
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OR779m146	mmu-miR-187	30.56333
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OR779m146	mmu-miR-203	32.65333
OR779m146	mmu-miR-210	30.54
OR779m146	mmu-miR-221	28.23
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OR779m146	mmu-miR-31	28.22667
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OR779m146	mmu-miR-451	24.35
OR779m146	mmu-miR-486	28.89667
OR779m146	mmu-miR-489	31.61667
OR779m146	mmu-miR-497	27.64667
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OR779m146	mmu-miR-541	32.45
OR779m146	mmu-miR-652	27.45
OR779m146	mmu-miR-672	30.85
OR779m146	mmu-miR-676	31.17333
OR779m146	mmu-miR-92b	28.63
OR792m76	U6 snRNA	24.78333
OR792m76	mmu-miR-10a	28.99667
OR792m76	mmu-miR-127	32.00333
OR792m76	mmu-miR-132	31.83
OR792m76	mmu-miR-133a	29.70333
OR792m76	mmu-miR-139-5p	30.77667
OR792m76	mmu-miR-146b	28.36667
OR792m76	mmu-miR-148b	29.24667
OR792m76	mmu-miR-151-5p	26.52333
OR792m76	mmu-miR-17*	31.73667
OR792m76	mmu-miR-181d	32.32333
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OR792m76	mmu-miR-187	30.17333
OR792m76	mmu-miR-192	31.15
OR792m76	mmu-miR-193*	32.32333
OR792m76	mmu-miR-193b	31.87

OR792m76	mmu-miR-194	30.54333
OR792m76	mmu-miR-200a	26.33667
OR792m76	mmu-miR-203	32.1
OR792m76	mmu-miR-210	30.04333
OR792m76	mmu-miR-221	28.35667
OR792m76	mmu-miR-25	27.84333
OR792m76	mmu-miR-31	28.24
OR792m76	mmu-miR-322	25.24667
OR792m76	mmu-miR-322*	29.14333
OR792m76	mmu-miR-342-3p	28.61333
OR792m76	mmu-miR-34a	28.63333
OR792m76	mmu-miR-34c	27.1
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OR792m76	mmu-miR-375	30.96333
OR792m76	mmu-miR-379	33.8
OR792m76	mmu-miR-451	23.22
OR792m76	mmu-miR-486	27.63333
OR792m76	mmu-miR-489	33.47667
OR792m76	mmu-miR-497	26.91333
OR792m76	mmu-miR-503	28.92667
OR792m76	mmu-miR-541	34.35333
OR792m76	mmu-miR-652	27.09333
OR792m76	mmu-miR-672	31.06667
OR792m76	mmu-miR-676	30.58667
OR792m76	mmu-miR-92b	29.46333
OR799m164	U6 snRNA	23.69333
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OR799m164	mmu-miR-127	30.78
OR799m164	mmu-miR-132	30.27
OR799m164	mmu-miR-133a	29.25667
OR799m164	mmu-miR-139-5p	29.99667
OR799m164	mmu-miR-146b	29.13
OR799m164	mmu-miR-148b	28.94333
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OR799m164	mmu-miR-17*	30.92
OR799m164	mmu-miR-181d	32.1
OR799m164	mmu-miR-182	30.32
OR799m164	mmu-miR-187	30.04333
OR799m164	mmu-miR-192	31.02
OR799m164	mmu-miR-193*	32.2
OR799m164	mmu-miR-193b	30.93333
OR799m164	mmu-miR-194	30.60667
OR799m164	mmu-miR-200a	26.31
OR799m164	mmu-miR-203	32.59666
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OR799m164	mmu-miR-221	26.63333
OR799m164	mmu-miR-25	27.58667
OR799m164	mmu-miR-31	28.63333
OR799m164	mmu-miR-322	26.3
OR799m164	mmu-miR-322*	30.51
OR799m164	mmu-miR-342-3p	28.28333
OR799m164	mmu-miR-34a	27.57333
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OR799m164	mmu-miR-375	30.05333
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OR799m164	mmu-miR-489	33.13
OR799m164	mmu-miR-497	26.40333
OR799m164	mmu-miR-503	29.36333
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OR799m164	mmu-miR-652	27.27667
OR799m164	mmu-miR-672	31.41
OR799m164	mmu-miR-676	30.56
OR799m164	mmu-miR-92b	28.70333
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OR801m64	mmu-miR-10a	29.40667

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OR801m64	mmu-miR-127	32.88667
OR801m64	mmu-miR-132	30.91667
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OR801m64	mmu-miR-139-5p	31.45
OR801m64	mmu-miR-146b	28.58333
OR801m64	mmu-miR-148b	29.64333
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OR801m64	mmu-miR-17*	31.98
OR801m64	mmu-miR-181d	32.79333
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OR801m64	mmu-miR-203	33.21667
OR801m64	mmu-miR-210	31.40667
OR801m64	mmu-miR-221	27.6
OR801m64	mmu-miR-25	28.73667
OR801m64	mmu-miR-31	28.41
OR801m64	mmu-miR-322	26.69
OR801m64	mmu-miR-322*	30.61
OR801m64	mmu-miR-342-3p	28.69667
OR801m64	mmu-miR-34a	27.22333
OR801m64	mmu-miR-34c	27.22
OR801m64	mmu-miR-351	29.92667
OR801m64	mmu-miR-375	29.94333
OR801m64	mmu-miR-379	35.59333
OR801m64	mmu-miR-451	24.31667
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OR801m64	mmu-miR-489	34.41667
OR801m64	mmu-miR-497	27.21333
OR801m64	mmu-miR-503	30.54667
OR801m64	mmu-miR-541	35.45333
OR801m64	mmu-miR-652	27.16667
OR801m64	mmu-miR-672	31.17333
OR801m64	mmu-miR-676	30.64
OR801m64	mmu-miR-92b	29.51333
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OR820m63	mmu-miR-139-5p	30.63667
OR820m63	mmu-miR-146b	29.57
OR820m63	mmu-miR-148b	30.11
OR820m63	mmu-miR-151-5p	27.96
OR820m63	mmu-miR-17*	32.09
OR820m63	mmu-miR-181d	33.41
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OR820m63	mmu-miR-187	31.56333
OR820m63	mmu-miR-192	32.18333
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OR820m63	mmu-miR-210	31.29333
OR820m63	mmu-miR-221	28.73
OR820m63	mmu-miR-25	29
OR820m63	mmu-miR-31	29.56333
OR820m63	mmu-miR-322	27.40333
OR820m63	mmu-miR-322*	31.61667
OR820m63	mmu-miR-342-3p	29.13
OR820m63	mmu-miR-34a	29.29333
OR820m63	mmu-miR-34c	27.77333
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OR820m63	mmu-miR-375	31.19
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OR820m63	mmu-miR-676	31.87667
OR820m63	mmu-miR-92b	30.69333
OR822m147	U6 snRNA	24.96667
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OR822m147	mmu-miR-146b	29.15
OR822m147	mmu-miR-148b	29.8
OR822m147	mmu-miR-151-5p	27.24
OR822m147	mmu-miR-17*	32.59666
OR822m147	mmu-miR-181d	33.00333
OR822m147	mmu-miR-182	30.88
OR822m147	mmu-miR-187	31.01333
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OR822m147	mmu-miR-193*	32.75667
OR822m147	mmu-miR-193b	31.64667
OR822m147	mmu-miR-194	31.31667
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OR822m147	mmu-miR-210	30.53
OR822m147	mmu-miR-221	28.54667
OR822m147	mmu-miR-25	28.8
OR822m147	mmu-miR-31	29.16
OR822m147	mmu-miR-322	26.27333
OR822m147	mmu-miR-322*	30.45333
OR822m147	mmu-miR-342-3p	29.71
OR822m147	mmu-miR-34a	29.05
OR822m147	mmu-miR-34c	26.61333
OR822m147	mmu-miR-351	28.91
OR822m147	mmu-miR-375	29.66
OR822m147	mmu-miR-379	33.12333
OR822m147	mmu-miR-451	24.8
OR822m147	mmu-miR-486	28.94667
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OR822m147	mmu-miR-541	32.83667
OR822m147	mmu-miR-652	27.91
OR822m147	mmu-miR-672	31.76
OR822m147	mmu-miR-676	31.30333
OR822m147	mmu-miR-92b	29.52667
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OR829m74	mmu-miR-133a	29.63
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OR829m74	mmu-miR-182	30.69
OR829m74	mmu-miR-187	29.87333
OR829m74	mmu-miR-192	30.53
OR829m74	mmu-miR-193*	31.91667

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OR829m74	mmu-miR-193b	31.28
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OR829m74	mmu-miR-203	31.79
OR829m74	mmu-miR-210	29.84
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OR829m74	mmu-miR-34c	27.05333
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OR829m74	mmu-miR-375	31.04333
OR829m74	mmu-miR-379	34.68
OR829m74	mmu-miR-451	23.17333
OR829m74	mmu-miR-486	27.88667
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OR829m74	mmu-miR-497	26.48667
OR829m74	mmu-miR-503	29.21
OR829m74	mmu-miR-541	34.05
OR829m74	mmu-miR-652	27.27
OR829m74	mmu-miR-672	31.67333
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OR829m74	mmu-miR-92b	30.16667
OR857m67	U6 snRNA	24.44
OR857m67	mmu-miR-10a	28.96667
OR857m67	mmu-miR-127	31.44
OR857m67	mmu-miR-132	30.88667
OR857m67	mmu-miR-133a	27.15333
OR857m67	mmu-miR-139-5p	29.47667
OR857m67	mmu-miR-146b	30.20667
OR857m67	mmu-miR-148b	29.09
OR857m67	mmu-miR-151-5p	26.31667
OR857m67	mmu-miR-17*	31.57
OR857m67	mmu-miR-181d	31.95333
OR857m67	mmu-miR-182	30.12667
OR857m67	mmu-miR-187	30.05667
OR857m67	mmu-miR-192	30.74333
OR857m67	mmu-miR-193*	32.34333
OR857m67	mmu-miR-193b	30.65333
OR857m67	mmu-miR-194	30.44333
OR857m67	mmu-miR-200a	26.19667
OR857m67	mmu-miR-203	31.61
OR857m67	mmu-miR-210	30.25
OR857m67	mmu-miR-221	27.77333
OR857m67	mmu-miR-25	28.16333
OR857m67	mmu-miR-31	27.88667
OR857m67	mmu-miR-322	25.73333
OR857m67	mmu-miR-322*	29.32667
OR857m67	mmu-miR-342-3p	29.36
OR857m67	mmu-miR-34a	27.68
OR857m67	mmu-miR-34c	26.08
OR857m67	mmu-miR-351	28.1
OR857m67	mmu-miR-375	29.49
OR857m67	mmu-miR-379	33.89
OR857m67	mmu-miR-451	23.84667
OR857m67	mmu-miR-486	28.64333
OR857m67	mmu-miR-489	32.63667
OR857m67	mmu-miR-497	26.36667
OR857m67	mmu-miR-503	29.08667
OR857m67	mmu-miR-541	33.16
OR857m67	mmu-miR-652	27.35333
OR857m67	mmu-miR-672	30.68667
OR857m67	mmu-miR-676	30.62333
OR857m67	mmu-miR-92b	29.1
OR867m181	U6 snRNA	24.78667

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OR867m181	mmu-miR-10a	30.28333
OR867m181	mmu-miR-127	33.23
OR867m181	mmu-miR-132	32.32
OR867m181	mmu-miR-133a	33
OR867m181	mmu-miR-139-5p	31.55
OR867m181	mmu-miR-146b	31.68333
OR867m181	mmu-miR-148b	31.19
OR867m181	mmu-miR-151-5p	27.88
OR867m181	mmu-miR-17*	33.2
OR867m181	mmu-miR-181d	33.61
OR867m181	mmu-miR-182	31.82
OR867m181	mmu-miR-187	31.56
OR867m181	mmu-miR-192	32.74334
OR867m181	mmu-miR-193*	32.86666
OR867m181	mmu-miR-193b	32.43667
OR867m181	mmu-miR-194	32.61333
OR867m181	mmu-miR-200a	28.65333
OR867m181	mmu-miR-203	34.47334
OR867m181	mmu-miR-210	31.97667
OR867m181	mmu-miR-221	29.27
OR867m181	mmu-miR-25	29.67
OR867m181	mmu-miR-31	29.64667
OR867m181	mmu-miR-322	28.16
OR867m181	mmu-miR-322*	31.1
OR867m181	mmu-miR-342-3p	30.10667
OR867m181	mmu-miR-34a	30.37
OR867m181	mmu-miR-34c	29.42
OR867m181	mmu-miR-351	30.17
OR867m181	mmu-miR-375	30.55
OR867m181	mmu-miR-379	36.05
OR867m181	mmu-miR-451	25.65
OR867m181	mmu-miR-486	29.00333
OR867m181	mmu-miR-489	34.96
OR867m181	mmu-miR-497	28.65667
OR867m181	mmu-miR-503	32.1
OR867m181	mmu-miR-541	35.34667
OR867m181	mmu-miR-652	28.76667
OR867m181	mmu-miR-672	32.01333
OR867m181	mmu-miR-676	31.93667
OR867m181	mmu-miR-92b	30.31667
OR896m61	U6 snRNA	24.40333
OR896m61	mmu-miR-10a	29.78
OR896m61	mmu-miR-127	31.24
OR896m61	mmu-miR-132	30.74667
OR896m61	mmu-miR-133a	30.72667
OR896m61	mmu-miR-139-5p	31.30333
OR896m61	mmu-miR-146b	29.07
OR896m61	mmu-miR-148b	29.67667
OR896m61	mmu-miR-151-5p	27.12667
OR896m61	mmu-miR-17*	31.84333
OR896m61	mmu-miR-181d	32.59667
OR896m61	mmu-miR-182	30.82667
OR896m61	mmu-miR-187	30.83333
OR896m61	mmu-miR-192	31.29333
OR896m61	mmu-miR-193*	32.08667
OR896m61	mmu-miR-193b	31.35
OR896m61	mmu-miR-194	31.33667
OR896m61	mmu-miR-200a	26.97333
OR896m61	mmu-miR-203	32.91333
OR896m61	mmu-miR-210	30.15667
OR896m61	mmu-miR-221	28.26333
OR896m61	mmu-miR-25	28.23667
OR896m61	mmu-miR-31	28.36333
OR896m61	mmu-miR-322	26.95333
OR896m61	mmu-miR-322*	31.25333
OR896m61	mmu-miR-342-3p	29.50667
OR896m61	mmu-miR-34a	28.89333
OR896m61	mmu-miR-34c	26.57333

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OR896m61	mmu-miR-351	30.5
OR896m61	mmu-miR-375	30.06333
OR896m61	mmu-miR-379	33.47667
OR896m61	mmu-miR-451	24.42333
OR896m61	mmu-miR-486	28.32667
OR896m61	mmu-miR-489	31.57
OR896m61	mmu-miR-497	27.35667
OR896m61	mmu-miR-503	31.07333
OR896m61	mmu-miR-541	33.11
OR896m61	mmu-miR-652	28.38333
OR896m61	mmu-miR-672	31.59667
OR896m61	mmu-miR-676	31.48667
OR896m61	mmu-miR-92b	29.09
OR900m153	U6 snRNA	23.42
OR900m153	mmu-miR-10a	27.92667
OR900m153	mmu-miR-127	30.38
OR900m153	mmu-miR-132	30.21667
OR900m153	mmu-miR-133a	26.02333
OR900m153	mmu-miR-139-5p	29.09
OR900m153	mmu-miR-146b	27.51
OR900m153	mmu-miR-148b	28.32
OR900m153	mmu-miR-151-5p	25.76
OR900m153	mmu-miR-17*	30.77333
OR900m153	mmu-miR-181d	31.65
OR900m153	mmu-miR-182	29.83
OR900m153	mmu-miR-187	29.35
OR900m153	mmu-miR-192	30.32333
OR900m153	mmu-miR-193*	31.48333
OR900m153	mmu-miR-193b	30.32667
OR900m153	mmu-miR-194	29.77333
OR900m153	mmu-miR-200a	25.55333
OR900m153	mmu-miR-203	30.72
OR900m153	mmu-miR-210	29.30667
OR900m153	mmu-miR-221	27.47333
OR900m153	mmu-miR-25	26.87667
OR900m153	mmu-miR-31	27.98333
OR900m153	mmu-miR-322	25.24667
OR900m153	mmu-miR-322*	29.29667
OR900m153	mmu-miR-342-3p	29.03
OR900m153	mmu-miR-34a	28.12333
OR900m153	mmu-miR-34c	25.39
OR900m153	mmu-miR-351	28.15333
OR900m153	mmu-miR-375	28.25667
OR900m153	mmu-miR-379	32.23667
OR900m153	mmu-miR-451	23.28667
OR900m153	mmu-miR-486	27.22667
OR900m153	mmu-miR-489	36.45333
OR900m153	mmu-miR-497	26.24333
OR900m153	mmu-miR-503	29.35333
OR900m153	mmu-miR-541	32.45667
OR900m153	mmu-miR-652	26.67
OR900m153	mmu-miR-672	29.85
OR900m153	mmu-miR-676	29.62333
OR900m153	mmu-miR-92b	28.23
OR937m160	U6 snRNA	24.49
OR937m160	mmu-miR-10a	29.36333
OR937m160	mmu-miR-127	31.52
OR937m160	mmu-miR-132	30.52333
OR937m160	mmu-miR-133a	29.11667
OR937m160	mmu-miR-139-5p	31.52
OR937m160	mmu-miR-146b	27.98333
OR937m160	mmu-miR-148b	29.22667
OR937m160	mmu-miR-151-5p	26.83333
OR937m160	mmu-miR-17*	31.38
OR937m160	mmu-miR-181d	32.27333
OR937m160	mmu-miR-182	30.09667
OR937m160	mmu-miR-187	30.24
OR937m160	mmu-miR-192	31.16667

OR937m160	mmu-miR-193*	32.03333
OR937m160	mmu-miR-193b	31.76
OR937m160	mmu-miR-194	30.74
OR937m160	mmu-miR-200a	26.66667
OR937m160	mmu-miR-203	31.70333
OR937m160	mmu-miR-210	30.29333
OR937m160	mmu-miR-221	27.64333
OR937m160	mmu-miR-25	28.04667
OR937m160	mmu-miR-31	27.99667
OR937m160	mmu-miR-322	26.22
OR937m160	mmu-miR-322*	30.74333
OR937m160	mmu-miR-342-3p	28.52667
OR937m160	mmu-miR-34a	28.04
OR937m160	mmu-miR-34c	27.80333
OR937m160	mmu-miR-351	29.72667
OR937m160	mmu-miR-375	30.36333
OR937m160	mmu-miR-379	33.59333
OR937m160	mmu-miR-451	23.56333
OR937m160	mmu-miR-486	27.97333
OR937m160	mmu-miR-489	40
OR937m160	mmu-miR-497	26.77333
OR937m160	mmu-miR-503	30.13333
OR937m160	mmu-miR-541	33.02666
OR937m160	mmu-miR-652	27.10333
OR937m160	mmu-miR-672	31.01
OR937m160	mmu-miR-676	30.87
OR937m160	mmu-miR-92b	29.76

Table S3. Pairwise Pearson Correlation Values Among miR-322, miR-252, miR-497, and miR-503

	miR-322	miR-351	miR-497	miR-503
miR-322	1.00			
miR-351	0.74	1.00		
miR-497	0.61	0.45	1.00	
miR-503	0.81	0.74	0.44	1.00

All values are significant at $p < 1 \times 10^{-4}$.