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Chicken sperm transcriptome profiling by microarray analysis

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Abstract

It has been confirmed that mammalian sperm contain thousands of functional RNAs, and some of them have vital roles in fertilization and early embryonic development. Therefore, we attempted to characterize transcriptome of the sperm of fertile chickens using microarray analysis. Spermatozoal RNA was pooled from ten fertile males and used for RNA preparation. Prior to performing the microarray, RNA quality was assessed using a bioanalyzer, and gDNA and somatic cell RNA contamination was assessed by *CD4* and *PTPRC* gene amplification. The chicken sperm transcriptome was cross-examined by analysing sperm and testes RNA on a 4 x 44K chicken array, and results were verified by RT-PCR. Microarray analysis identified 17542 predominantly nuclear-encoded transcripts in chicken sperm. The majority (87.3%) of the sperm transcripts were shared with the testes, while surprisingly, 12.7% transcripts were detected (raw signal intensity greater than 50) only in the sperm and not in the testes. The greatest proportion of up-regulated transcripts were responsible for signal transduction (63.20%) followed by embryonic development (56.76%) and cell structure (56.25%). Of the 20 most abundant transcripts, 18 remain uncharacterized, whereas the least abundant genes were mostly associated with the ribosome. These findings lay a foundation for more detailed investigations on sperm RNAs in chickens to identify sperm-based biomarkers for fertility.

Key words: fertility biomarker, sperm RNA, embryonic development, egg, fertilization

Introduction

Historically, it was believed that spermatozoa are just a vehicle that delivers the male genome to the oocyte. However, in the last decade research has shown that spermatozoa delivers more to the oocyte than just the paternal haploid genome. Upon fertilization, the spermatozoon provides a complete, highly structured, and epigenetically marked genome that, together with a defined complement of RNAs and proteins, serves a variety of divergent functions (Krawetz, 2005). A recent study reported an absence of fertility-related sperm RNA elements in men with idiopathic infertility, but whose sperm characteristics were normal (Jodar et al. 2015). Zhang et al. (2006) reported that infertile men possess a higher proportion of spermatozoa with an increased histone to protamine (*PRM*) ratio than fertile controls. Similarly, human sperm devoid of phospholipase C zeta 1 (*PLCZ1*) fail to induce Ca^{2+} release and are unable to initiate the first step of embryo development (Yoon et al. 2008). Studies have reported that sperm antisense RNAs can epigenetically regulate early embryonic development and have a structural role in maintaining histone-bound sperm chromosomal regions (Lalancette et al. 2008; Krawetz et al. 2011; Liu et al. 2012). Besides their role in fertilization, Gapp et al. (2014) provided evidence for the idea that sperm RNA-dependent processes contribute to the transmission of acquired traits in mammals by experimentally proving that sperm RNAs are responsible for transgenerational inheritance of the effects of early trauma in mice.

The transcriptional profiling of sperm RNAs has been done for humans, mice and other domesticated animals such as bovine, swine and stallion (Goodrich et al. 2007; Gilbert et al. 2007; Yang et al. 2009; Das et al. 2013; Kawano et al. 2012; Card et al. 2013), and those results indicate a combination of coding, non-coding and miRNA molecules present in sperm. Gilbert et al. (2007) compared between bovine sperm and spermatid transcriptome and reported that sperm

harbors a complex mixture of messengers implicated in a wide array of cell functions and representing a large subset of transcripts found in spermatids. Another study reported many full-length transcripts in bovine sperm, the presence of which have already been reported in sperm of other species (Card et al. 2013), indicating that some candidate sperm transcripts might be conserved across species. Das et al. (2013) analysed the transcriptome of stallion sperm vs. testes by microarray and RNA-sequencing, and those results suggest that the rich repertoire of coding and non-coding RNAs in stallion sperm is not a random remnant from spermatogenesis in testes but a selectively retained and functionally coherent collection of RNAs. These results confirmed that sperm not only transfer the haploid male genome to the oocyte, but also deliver specific paternal messenger and non-coding RNAs to the egg at fertilization. However, the overall functional significance of these sperm RNAs in fertilization, early embryonic development or in any other function is yet to be understood and elucidated in most species. As a first step to examining the functional significance of sperm RNAs in any species, it is essential to characterise the species-specific sperm enriched RNA population, which will help in determining the molecular functions of sperm RNAs in silico based on biological pathway analysis. Therefore, this study was conceived to explore the chicken sperm RNA profiling by comparison of RNA transcripts between spermatozoa and testes using a microarray technique.

Materials and methods

All the procedures used in this study were reviewed and approved by the Central Avian Research Institute Animal ethics committee and were carried out in accordance with the revised framework of animals (Scientific Procedures) Act of 2002 of Government of India on animal welfare.

Semen and testes sample preparation

Semen from ten fertile male broilers (IC3) of the same hatch (about 40 weeks of age) was collected by the abdominal massage method (Quinn and Burrows 1936), and evaluated for motility as described by Wheeler and Andrews (1943) and fertility by natural mating. The first few ejaculates from each male were discarded in order to obtain good quality semen. Semen samples that showed a motility score above 3 were used for further processing. The concentration of spermatozoa was determined spectrophotometrically at 550nm as described by Brillard and McDaniel (1985). To eliminate variation between individuals, an equal volume of semen from all males was pooled and considered as a single sample, and subjected for density gradient centrifugation. After semen collection, all ten males were euthanized, testes were removed aseptically and washed with RNase free chilled phosphate buffer saline. Approximately 1 mg of testicular tissue from each male was collected, pooled and mixed with 1 mL of RNAlater and stored at 4°C for further use. Two biological replicates from one pooled sample of each sperm and testes RNA was used for microarray study.

Somatic cell removal by density gradient centrifugation

Pooled semen was subjected to density gradient centrifugation (DGC) using density gradient mediums, PureSperm (Nidacon International, Mölndal, Sweden), for the removal of somatic cells and immature diploid spermatocytes. In brief, 400 µL neat semen was mixed well with 1000 µL of 1X PBS and centrifuged at 1000 g for 5 min at room temperature (RT). The resultant pellet was then again dissolved with 1000 µL 1X PBS, and sperm concentration was measured and adjusted. An aliquot of 1000 µL ($500\text{--}800 \times 10^6$ sperm) from this resultant semen solution was layered over 3 mL pre-warmed (37 °C) 40% PureSperm and centrifuged at 280 g for 30 min

at RT. The bottom layer was carefully aspirated using a Pasteur pipette without disturbing the upper layer, transferred into a 2 mL centrifuge tube and washed twice with 1X PBS by centrifuging at 1000 g for 5 min at room temperature. Finally, the sperm pellet was suspended in 1 mL 1X PBS, and an aliquot of this purified sperm was examined by phase-contrast light microscopy (X 400) to check for the absence of somatic cells and immature spermatocytes. The sperm concentration in purified samples was adjusted to approximately $100\text{--}500 \times 10^6/\text{mL}$, and used for either RNA isolation or mixed with an equal amount of RNAlater and stored at 4°C for further use.

Total RNA isolation and quantity and quality assessment

RNA isolation was carried out in an area dedicated to RNA work using RNase/DNase free water and RNase free glass- and plastic-ware. Total RNA was isolated from purified sperm and testes samples using a RNeasy Mini Kit with spin columns (Qiagen, Valencia, CA, USA) following manufacturer's instructions. The concentration and purity of the RNA extracted were evaluated using the Nanodrop Spectrophotometer (Thermo Scientific, Wilmington, DE, USA). The integrity of the extracted RNA was analysed on the Bioanalyzer (Agilent; 2100, Santa Clara, CA, USA). We considered RNA to be of good quality based on the 260/280 and 260/230 values (Nanodrop); additionally rRNA 28S/18S ratios and RNA integrity number (RIN) were also considered for testes RNA. Genomic DNA contamination in purified RNA samples was examined by reverse transcriptase PCR with intron-spanning primers for the *CD4* gene. Further, somatic cell RNA contamination in purified RNA samples was examined by reverse transcriptase PCR with intron-spanning primers for *CD4* and protein tyrosine phosphatase, receptor type, C (*PTPRC*) gene.

Microarray

The RNA samples were labeled using Agilent Quick Amp Kit (Part number: 5190-0424). 500ng of total RNA was reverse transcribed using oligodT primer tagged to T7 promoter sequence. cDNA thus obtained was converted to double stranded cDNA in the same reaction. Further the cDNA was converted to cRNA by in-vitro transcription reaction by T7 RNA polymerase enzyme in presence of Cy3 dye. During cRNA synthesis Cy3 dye was incorporated into the newly synthesized cRNA strands. The cRNA obtained was then cleaned up using Qiagen RNeasy columns (Qiagen, Cat No: 74106). Both concentration and the amount of dye incorporated into cDNA were determined using Nanodrop. Specific activities of the labeled samples were determined. The labeling QC passed samples were hybridized. 1650ng of labeled cRNA were fragmented and hybridized on the chicken array (AMADID: 49081), containing 43604 chicken probes for 28078 genes, using the Gene Expression Hybridization kit (Part Number 5190-0404; Agilent) in Sure Hybridization Chambers (Agilent) at 65° C for 16 hours. Each hybridized slide was washed with wash buffer I for 1 minute at room temperature followed by wash buffer II for 1 minute at 37°C using Agilent Gene Expression wash buffers (Part No: 5188-5327). The hybridized, washed microarray slides were then scanned on a G2600D scanner (Agilent Technologies).

Microarray data acquisition and analysis

Images were quantified using Feature Extraction Software (Version-11.5, Agilent). Extracted raw data were analyzed using GeneSpring GX software from Agilent. Data were normalized in GeneSpring GX using the 50th percentile shift (percentile shift normalization is a global normalization, where the locations of all the spot intensities in an array are adjusted). This

normalization takes each column in an experiment independently, and computes the n^{th} percentile of the expression values for this array, across all spots (where n has a range from 0-100 and $n=50$ is the median). It subtracts this value from the expression value of each entity, thereby normalizing each data point relative to specific control samples. Genes significantly up- or down-regulated, showing a one-fold (log base2) or above change with respect to control samples were identified. The resulting gene lists underwent a clustering analysis (Cluster 3.0) to unravel Differentially Expressed Genes (DEGs), excluding transcripts showing a concordant value <80%. Genes were classified based on Gene ontology functional classification (DAVID).

Validation of microarray results

RNA samples were reverse transcribed with random hexamer primers using the 'RevertAid First strand cDNA synthesis kit' (MBI Fermentas, Hanover, MD, USA) according to the manufacturer's instructions. A total of 500 ng RNA was used for cDNA synthesis. The reverse transcription reaction was carried out in a final volume of 20 μ L. The resultant cDNA was stored at -20°C until used. The presence of testes and sperm specific genes (*PRM* and *PLCZ1*), and most and least abundant genes were examined using PCR with gene specific primers (Table 1). The amplification was carried out in 25 μ L volume containing 2.5 μ L PCR buffer (10X), 0.5 μ L dNTPs mix (10mM each), 0.5 μ L each of forward and reverse primer (10 pmol/ μ L), 0.2 μ L Taq polymerase (5U/ μ L, Biotools, Spain), 2 μ L of cDNA (1:10 diluted) and 18.8 μ L nuclease-free water. The PCR cycling conditions for all genes except *PRM* were: initial denaturation of 95°C for 5 min, followed by 35 cycles of denaturation at 95°C for 30 s; annealing (Table 1) for 30 s and extension at 72°C for 30 s. The PCR cycling conditions for *PRM* followed those previously described elsewhere (Sharma et al. 2014). Negative controls were samples in which cDNA was

not added. PCR products were resolved on 2.5% agarose gels and visualized by staining with ethidium bromide.

Semi-quantitative RT-PCR was chosen to estimate the transcripts amount in testes and sperm. To control for variation in the efficiencies of the RT step among different experimental samples, mRNA concentrations of *GAPDH*, a housekeeping gene, presumed to be expressed at constant amounts in chicken testes and sperm were also calculated, along with mRNA concentrations of targeted genes, by densitometry analysis using Image J software (NIH). Relative expression was determined as arbitrary units, defined as the ratio of mRNA level to the corresponding *GAPDH* mRNA level after subtraction of background intensity (value = (intensity; gene of interest - intensity; background)/(intensity; *GAPDH* -intensity; background) (Singh et al. 2011). Mean values of three measurements for testes and sperm bands were used for analysis.

Results

Sperm RNA quality

The absorbance ratios at A260/ A280 and A260/230 for testes and sperm RNA samples isolated were between 1.86 –2.10 and 1.70–2.31, respectively (Table 2). The bioanalyzer profile of testes RNA showed two distinct peaks of 18S and 28S rRNA respectively (Fig. 1), at the same place as indicated in reference with a RNA integrity number (RIN) of 9.5. In contrast, the sperm RNA bioanalyzer profile exhibited only a single peak at 40-50 s intervals (Fig. 1). The absence of 18S and 28S rRNA peaks in sperm RNA indicated that the RNA was originated from sperm and was uncontaminated with somatic cell RNA. Further, *PTPRC* and *CD4* genes were targeted to detect the traces of somatic cell RNA in sperm samples. The primers for *CD4* gene were intron-spanning in order to check for genomic DNA contamination also in RNA samples. The sperm

RNA sample was found to be negative for *PTPRC* and *CD4*, whereas the testes sample was positive for *PTPRC* and *CD4* (Fig. 2 & 3). No genomic DNA contamination was detectable in the samples used for microarray.

Microarray QC

The quality of Cy3 dye labelled cRNA samples were evaluated by NanoDrop. The specific activity of the sperm and testes samples ranged from 14.11 to 18.74 (Table S1), which is considered to be good. It is recommended that specific activity greater than eight is good for hybridization (Diaz and Barisone, 2011). The hybridization images were manually verified and found to be devoid of uneven hybridization, streaks, blobs and other artefacts. Hybridization across the slides was good based on a number of features such as spot finding of the four corners of the array, spatial distribution of all outliers on the array, negative control and net signal statistics and histogram of signal plot (Data not shown).

The overall mRNA expression levels within a single hybridization are presented in a scatter plot, where each point represents the expression value of a gene in each of the two biological replicates, one plotted on the x-axis and other on the y. The scatter plot showed a linear relationship in expression of genes in both biological replicates (Fig. S1). These results were further substantiated by measuring the correlation coefficient based on the intensity values of expression (Table S2) and intra-array gene expression clustering (Fig. S2).

Sperm transcript profile

Gene expression microarray analysis revealed 17542 probes in chicken sperm and 21639 in the testes. The majority (87.3%) of the sperm transcripts were shared with the testes, while surprisingly, 12.7% transcripts were detected (raw signal intensity greater than 50) only in the

sperm and not in the testes (Fig. 4). The chicken sperm transcript contains predominantly nuclear-encoded mRNAs, including 13 mitochondrial-encoded RNAs. The differential analysis revealed 11785 genes up and 9946 genes down regulated compared to testes at signal to noise ratio ≥ 2 .

Gene ontology annotations grouped sperm transcripts into different groups as shown in Table 3. The most transcripts were related to nucleic acid binding (1744) followed by signal transduction (1598) and transcription (1318). The greatest numbers of up-regulated transcripts were responsible for signal transduction (63.20%) followed by embryonic development (56.76%) and cell structure (56.25%). The lowest numbers of up-regulated transcripts were associated with spermatogenesis (11.62%) and fertilization (18.18%) (Figures 5 & 6). All transcripts (100%) related to ribosomal machinery were down regulated in sperm (Table S3).

A preliminary survey of the chicken sperm transcript profile for previously reported sperm RNA candidates identified several transcripts common in bovine, human, porcine, stallion and chicken (Table 4). These transcripts showed differential expression pattern in chicken spermatozoa. A list of the twenty most and least abundant RNAs in chicken sperm is presented in Tables 5 and 6. Of these 20 most abundant transcripts, 18 were uncharacterized, whereas the 20 least abundant transcripts were mostly associated with the ribosome.

Validation of microarray results

For microarray result validation, specific candidate genes were selected according to their abundance in chicken sperm. Two known sperm specific-genes (*PRM* and *PLCZ1*) were also included for microarray results. The RT-PCR results show up-regulation of *PRM*, *PLK2* and

ENSI gene, whereas down-regulation of *PLCZI*, *PABPC1* and *RPL26L1* in sperm compared to testes, which are consistent with the microarray results (Fig. 7 & 8).

Discussion

This is the first time that the chicken spermatozoal transcript profile has been explored using microarray, which confirms the presence of thousands of predominantly nuclear-encoded transcripts. Our findings are in good agreement with previous research in the field on human, mouse, bovine and stallion (Das et al. 2010 & 2013; Jodar et al. 2012; Gilbert et al. 2007; Yang et al. 2009; Kawano et al. 2012; Yoon et al. 2008; Krawetz 2005). The microarray results of two candidate sperm transcripts (*PRM* and *PLCZI*) and two transcripts each from high and low abundant RNA in sperm were confirmed by RT-PCR. The *PRM* and *PLCZI* were chosen to make sure that the microarray template was germ cell originated. The expression of *PRM* and *PLCZI* is known to be restricted in testes, thereby known as testes-specific marker genes. Since, sperm RNAs are thought to be remnants of spermatogenesis process; sperm also contains *PRM* and *PLCZI* transcripts. Earlier studies used *PRM* expression as marker for testes and sperm specific transcripts in mammalian species (Das et al. 2010 & 2013; Jodar et al. 2012; Gilbert et al. 2007; Yang et al. 2009; Kawano et al. 2012; Yoon et al. 2008; Krawetz 2005). We had already confirmed the presence of these transcripts in chicken sperm (Shafeeque et al. 2014). Further, we have used intron-spanning primer of *CD4* gene to examine the genomic DNA contamination in RNA samples. *CD4* gene amplification results showed that microarray templates were free from genomic DNA contamination. A similar technique has already been applied by other authors to check genomic DNA in RNA samples (Das et al. 2010; Jodar et al. 2012). We have examined the quality of RNA by measuring the absorbance ratios at A260/A280 and through bioanalyzer profiling, which is known to be the most sensitive technique to evaluate

RNA integrity. The testes RNA showed two distinct peaks of 18S and 28S rRNA that are known as a hallmark of most tissue RNA (Krawetz 2005). In contrast, sperm RNA profile did not show 18S and 28S rRNA peaks. Das et al. (2010) and Shafeeque et al. (2014) reported the same results for stallion and chicken sperm RNA. The bioanalyzer profile of the sperm RNA samples exhibited a RIN value (7.3). However, since calculation of the RIN value is mainly based on the ratio of 18S and 28S rRNA, and sperm RNA contains trace amounts of rRNA, perhaps RIN values are not useful to reliably assess the quality of sperm RNA samples. In general, it is known that sperm are rRNA-depleted (Ostermeier et al. 2002; Krawetz 2005; Grunewald et al. 2005; Das et al. 2010 & 2013), hence the absence of rRNA peaks in chicken sperm RNA samples indicated that the RNA originated from sperm and was uncontaminated with foreign RNA. This observation was further strengthened by visualising the *CD4* and *PTPCR*, somatic cell marker transcripts in sperm RNA samples. Both the somatic cell marker gene transcripts were found to be absent in chicken sperm RNA samples, indicating the absence of any foreign RNA. Similar results have been reported for stallion, human and chicken sperm (Das et al. 2010; Jodar et al. 2012; Shafeeque et al. 2014).

Our microarray results demonstrate that the majority of the transcripts (87.3%) were common between sperm and testes, supporting the prevailing idea that sperm transcripts are solely historical records of spermatogenesis in testes (Krawetz 2005; Ostermeier et al. 2002). A previous study on stallion sperm reported 97% common transcripts between sperm and testes in the stallion (Das et al. 2013). The difference in the proportion of shared transcripts between sperm and testes is primarily due to species differences, because chicken sperm have relatively low cytoplasmic content (3% of initial spermatid cell volume in rooster sperm) compared to mammalian sperm (Sprando and Russell 1988). Further, our results show 12.7% sperm-enriched

transcripts in the chicken, which is higher than the previously reported 2.44% sperm-enriched transcripts in stallion sperm (Das et al. 2013). The difference in sperm-enriched transcripts may be due to species differences and the number of probes in oligoarray. Whereas the stallion study was conducted on equine oligoarray containing 14531 gene probes, we used a chicken oligoarray which contains approximately 44 thousand probes for 28077 genes. The sperm-enriched transcripts are considered to be foreign RNA taken up by sperm released from the testis during maturation in, or passage through, the epididymis. It is believed that microsome-like structures such as epididymosomes may be used as a vehicle to provide such foreign RNA to the maturing sperm either during ejaculation or in the epididymis but this idea needs to be tested (Boerke et al. 2007). Gene ontology analysis revealed that the greatest number of sperm up-regulated transcripts were related to signal transduction followed by embryonic development and cell structure, as reported previously in bovine and stallion sperm (Das et al. 2013; Gilbert et al. 2007; Card et al. 2013). However, the lowest numbers of sperm up-regulated transcripts were associated with spermatogenesis and fertilization, indicating selective retention of transcripts in sperm. Das et al. (2013) has already speculated that certain transcriptional products of spermatogenesis are selectively retained in the sperm but not in the testes in stallion. All transcripts related to ribosomal machinery were down-regulated in sperm, indicating that translation was predominantly impaired in chicken sperm.

A preliminary survey of the chicken sperm transcript profile for previously reported sperm RNA candidates identified several transcripts common in bovine, human, porcine and chicken (Das et al. 2013; Gilbert et al. 2007; Card et al. 2013). The sperm RNA candidates include *PRM*, *CRISP2*, *CLGN* and *PLCZ1*. These results indicate that some of the candidate sperm RNA transcripts are conserved across these species. Results of the top 20 most abundant transcripts

showed all uncharacterized transcripts except for two genes (*TANK* & *SCARF1*). These genes have no direct role in either fertilization or early embryonic development, but *TANK* plays an important role as an anti-apoptotic factor, and might be preventing apoptosis in the zygote. Whereas, *SCARF1* regulates the uptake of chemically modified low density lipoproteins, including acetylated low density lipoprotein (Ac-LDL), and therefore may be involved in sperm energy metabolism.

In conclusion this study provides the first evidence of the presence of thousands of RNAs in chicken sperm; some of which have been already been identified as candidate sperm RNA in other species. The results will help in establishing the functional role of identified candidate sperm RNA in fertility and early embryonic development along with functional genomics studies of fertility to develop non-invasive fertility biomarkers.

Declaration of interest

All the authors hereby declare that there is no conflict of interest that could be perceived as prejudicing the impartiality of the research reported.

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Caption of figures

Figure 1: Image showing microarray electropherogram of testes and sperm RNA samples. (A) 18S and 28S rRNA reference; (B) Ladder; (C) Total sperm RNA; and (D) Total testes RNA.

Figure 2: Image showing the absence of *PTPRC* RNA in sperm RNA (Lane 1: 100bp marker; Lane 2: non template control; Lane 3: testes RNA and Lane 4: sperm RNA).

Figure 3: Image showing the absence or presence of *CD4* RNA and gDNA in sperm or testes samples. An intron-spanning *CD4* primer set was used to detect the presence of genomic DNA contamination. Lane 1: 100 bp ladder. Lane 2: Non template control; Lane 3: Testes RNA spiked with genomic DNA to produce the amplicon of 248 bp corresponding to genomic DNA and an amplicon of 162 bp corresponding to *CD4* cDNA sperm RNA. Lane 4 : sperm RNA.

Figure 4: Venn diagram of the proportion of specific or common transcripts between testes and sperm with raw signal intensity greater than 50 by microarray analysis.

Figure 5: Heat map of genes that have a role in fertilization. Hierarchical clustering of genes is based on similar expression profiles in sperm samples vs. testes samples. Clustering analysis was performed using GeneSpringGX Software using Average Linkage rule with Pearson Uncentered Distance Metric. Red color in the cluster indicates up-regulation and green color in the cluster indicates down-regulation in Sperm cells when compared to Testes samples. The fold expression values represented in the cluster are in terms of log base 2.

Figure 6: Heat map of genes that has role in spermatogenesis. Hierarchical clustering of genes is based on similar expression profiles in sperm samples vs. testes samples. Clustering analysis was performed using GeneSpringGX Software using Average Linkage rule with Pearson Uncentered Distance Metric. Red color in the cluster indicates up-regulation and green color in the cluster

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Figure 7: Validation of microarray results for selected transcripts by RT-PCR. Lanes 1, 2 and 3 contain PCR products amplified with sperm cDNA, whereas lanes 4, 5 and 6 contain PCR products amplified with testes cDNA. Gel electrophoresis was performed for all the genes in identical conditions.

Figure 8: RT-PCR analysis of selected transcripts in sperm and testes cDNA. Bars represent the mean of the normalized band density for each mRNA band obtained by densitometric analysis (mean $\pm$ SE; n = 3). Normalization was performed by dividing each band density value by the value of β -actin band density in the same sample. Asterisk (*) indicates a significant difference (p<0.05) in mRNA expression.

Table1: Primer pairs used for PCR.

Gene name	Accession number	Primer Sequence (5'-3')	Annealing Temp. (°C)	Product size
GAPDH	NM_204305	F-CGTGTTGTGGACTTGATGG R-AACTGAGCGGTGGTGAAG	58	120
PLCZ1	AY843531	F-CGTAGTAGACAAGTATGC R-ATTGGTGAAGTAAGAAGTT	47.8	141
PRM	M28100/ L38713	F-CGCAGCAGGACCCGCAGCCG R-CGGCGGCGGGCGGCTCAGTAG	66	187
CD4	DQ202315	F-GAAAGATGGGACCTGTACTTGG R-TCCAGGCTCAAGTCTGACAC	58	RNA/cDNA =162 Genomic DNA=248
PTPRC	NM_204417	F- ACTATTGACCTTACTCCAT R- GCCCATTTGTAGAACTTT	49.7	109
PLK2	XM_424739	F-TAGCCAAGCCAGGAGCATTAC R-TCCAGACATCCACGCAATACC	53.7	166
ENS-1	NM_001080873	F-CCTTGTGCTTGCTATCTTCTC R-CCTGTCCATCAGTGTCTC	53.7	191
PABPC1	NM_001031597	F-AGAGAATGGCGAGTGTAAG R-TTGGAATGGATGAGGTCTG	59.5	197
RPL26L1	NM_001277099	F-TCAGACCGCAGCAAGAAC R-GACAACCTGGACTTCATCATC	53.7	150

Table 2: RNA quality and yield of RNA samples used for microarray analysis.

Sample name	Absorbance value 260/280	Absorbance value 260/230	RNA concentration ng/ μ l
Testis RNA	2.10	2.31	1643
Sperm RNA	1.86	1.7	231

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Table 3: Gene ontology functional groups of sperm up- and down-regulated transcripts.

Function name	Total genes found	Up-regulated genes/%	Down-regulated genes
Nucleic acid binding	1744	645 (36.98)	1099
Signal transduction	1598	1010 (63.20)	588
Transcription	1318	623 (47.26)	695
Embryonic development	377	214 (56.76)	163
Cell structure	16	9 (56.25)	7
Spermatogenesis	43	5 (11.62)	38
Fertilization	11	2 (18.18)	9
Apoptosis	471	226 (47.98)	245
Oocyte	167	52 (31.13)	115
Cell cycle	384	98 (25.52)	286
Steroid	195	104 (53.33)	91
Protein modification	855	388 (45.38)	467

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Table 4: A list of previously reported candidate sperm transcripts identified in the chicken sperm transcript profile.

Transcript name	Accession no.	Expression in chicken sperm	Species	REFERENCE
PRM	M28100	Up	Human, Bovine, Chicken	Ziyyat et al., 1999; Gilbert et al., 2007; Shafeeque et al., 2014
CRISP2	ENSGALT00000026918	Up	Bovine	Arangasamy et al., 2011; Zhao et al., 2006
SPATA20	XM_420103	Up	Bovine	Gilbert et al., 2007
H2AFZ	NM_001031374	Down	Bovine	Gilbert et al., 2007
EEF1A1	NM_204157	Down	Bovine	Laalancette et al., 2008; Zhao et al., 2006
ACTG1	NM_001007824	Down	Bovine	Gilbert et al., 2007
PLCZ1	NM_001039273	Down	Human, chicken	Hamatani et al., 2012; Shafeeque et al., 2014
MYCBP	ENSGALT00000041046	Down	Human	Lambard et al., 2004; Kumar et al., 1993
PEBP1	NM_001198642	Down	Bovine	Bissonette et al., 2009; Arangasamy et al., 2011
SPAG4	XM_424281	Down	Bovine	Gilbert et al., 2007
CCT8	NM_001004389	Down	Bovine	Arangasamy et al., 2011;
PPIH	ENSGALT00000007781	Down	Bovine	Gilbert et al., 2007
STRBP	NM_001030680	Down	Bovine	Gilbert et al., 2007
CHMP5	ENSGALT00000021491	Down	Human	Zhao et al., 2006; Lalancette et al., 2008
CLGN	ENSGALT00000015978	Down	Porcine	Ostermeier et al., 2006; Wang et al., 2004; Kempisty et al., 2008
EIF2B2	NM_001006481	Down	Bovine	Gilbert et al., 2007
CTTN	NM_205468	Down	Stallion	Das et al., 2013
ARID5B	NM_001031220	Down	Stallion	Das et al., 2013
ATG12	ENSGALT00000003696	Down	Stallion	Das et al., 2013
GSTA1	NM_001001777	Down	Stallion	Das et al., 2013
PRPSAP1	ENSGALT00000002885	Down	Stallion	Das et al., 2013

Table 5: The twenty most abundant probes based on the fold change (NA-not available).

Gene name	Accession number	Fold change	P value	Chromosome position	Size (bp)	Pathway
<i>CR389478</i>	BU441709	9.98	1.13E-03	1	732	Unknown
<i>L48903</i>	L48903	10.37	1.12E-03	1	297	Unknown
<i>ENSGALT00000014963</i>	ENSGALT00000014963	10.38	9.47E-04	25	483	Unknown
<i>CR407005</i>	CR407005	10.56	8.66E-04	2	869	Unknown
<i>NP9665240</i>	NP9665240	10.72	3.07E-06	NA	NA	Unknown
<i>NP9669230</i>	NP9669230	10.41	5.76E-04	NA	NA	Unknown
<i>NP9668656</i>	NP9668656	10.63	3.29E-04	NA	NA	Unknown
<i>NP9669152</i>	NP9669152	10.57	6.11E-04	NA	NA	Unknown
<i>NP9665913</i>	NP9665913	9.93	9.26E-04	NA	NA	Unknown
<i>ENSGALT00000029799</i>	ENSGALT00000029799	11.39	1.25E-03	NA	NA	Unknown
<i>TANK</i>	XM_422036	9.67	2.17E-04	7	2695	Apoptosis
<i>NP9668902</i>	NP9668902	10.87	1.61E-03	NA	NA	Unknown
<i>BX934641</i>	TC442112	11.04	7.35E-04	25	357	Unknown
<i>NP9669128</i>	NP9669128	9.76	1.83E-04	NA	NA	Unknown
<i>NP9668791</i>	NP9668791	9.39	1.32E-03	NA	NA	Unknown
<i>NP9666246</i>	NP9666246	11.05	1.76E-03	NA	NA	Unknown
<i>NP9665148</i>	NP9665148	9.50	1.37E-03	NA	NA	Unknown
<i>NP9668920</i>	NP9668920	9.12	1.06E-02	NA	NA	Unknown
<i>TC429602</i>	TC429602	9.44	1.06E-04	NA	NA	Unknown
<i>SCARF1</i>	XM_001234822	10.32	3.25E-03	19	2851	Unknown

Table 6: The twenty least abundant probes based on the fold change (NA-not available).

Gene name	Accession number	Fold change	P value	Chromosome position	Size (bp)	Pathway
RPLP1	NM_205322	-8.85	1.46E-05	2	459	Ribosome
LOC768497	XM_001231376	-8.60	3.55E-04	5	835	Open reading frame
RPL26L1	ENSGALG00000002868	-8.74	6.22E-06	13	4414	Ribosome
RPL30	NM_001007967	-8.97	5.12E-05	2	3068	Ribosome
COX4I1	DR410805	-8.52	1.02E-04	11	4096	Oxidative phosphorylation
LOC770729	ENSGALT00000018624	-8.53	5.81E-05	4	5585	Unknown
RPL32	NM_001252255	-8.51	2.60E-05	12	2036	Ribosome
LOC420220	ENSGALT00000030843	-9.04	1.49E-03	2	8150	Unknown
RPL38	ENSGALT00000002220	-8.58	3.60E-04	18	2514	Ribosome
RPL35	NM_204273	-8.51	5.03E-05	17	1064	Ribosome
LOC425049	XM_422851	-9.05	3.85E-04	9	2035	Gap junction
PTTG1	ENSGALT00000002291	-8.78	9.28E-05	13	2179	Cell cycle
BX932642	BX950575	-8.72	1.54E-04	4	3291	Unknown
ENPP4	NM_001006422	-8.45	3.11E-05	3	5390	Catalytic activity
PABPC1	NM_001031597	-8.95	3.29E-05	2	9531	Nucleotide binding
RPS17L	NM_204217	-8.14	4.06E-05	10	2054	Ribosome
RPS6	NM_205225	-8.19	4.82E-05	Z	4459	Ribosome
CO635742	XM_001233012	-8.31	1.04E-03	12	979	Unknown
AKAP14	ENSGALT00000032302	-8.48	1.77E-04	4	2445	Unknown
GGNBP2	NM_001001899	-8.46	3.00E-04	19	2624	Spermatogenesis

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S. No.	Gene	Fold change	P-Value
1	41700	-4.80	8.42E-05
2	41701	-5.26	8.26E-04
3	41703	-5.90	1.60E-04
4	41705	-2.76	1.03E-02
5	41709	-3.69	0.00439499
6	41884	-3.20	2.05E-04
7	41885	-2.38	1.59E-04
8	41888	-4.44	4.15E-04
9	41889	-2.43	1.63E-03
10	41892	-4.71	7.38E-06
11	41897	-4.28	9.89E-03
12	A2LD1	-1.57	5.24E-02
13	AACS	-3.87	7.65E-03
14	AADACL4	-6.35	1.55E-04
15	AADAT	-4.32	2.81E-05
16	AAED1	-2.48	1.94E-03
17	AAGAB	-4.18	5.31E-04
18	AAMDC	-6.00	8.88E-05
19	AAMP	-1.12	2.36E-02
20	AAR2	-2.15	1.33E-03
21	AARS2	-5.12	1.52E-04
22	AARSD1	-3.83	3.70E-04
23	AASDH	-1.31	1.84E-02
24	AASDHPT	-4.09	6.41E-04
25	ABAT	-5.99	1.03E-04
26	ABCB10	-5.18	4.24E-05
27	ABCB6	-2.07	5.28E-07
28	ABCB7	-1.75	1.00E-03
29	ABCC1	-3.10	7.01E-04
30	ABCC2	-1.93	5.05E-03
31	ABCC4	-1.56	9.33E-03
32	ABCC5	-3.17	8.47E-04
33	ABCC9	-5.35	3.70E-04
34	ABCD2	-2.18	1.64E-03
35	ABCD3	-1.93	2.14E-02
36	ABCD4	-2.42	3.62E-03
37	ABCE1	-4.29	1.68E-03
38	ABCF2	-4.15	2.74E-03
39	ABCG2	-3.15	7.61E-03
40	ABHD12	-4.20	3.06E-05
41	ABHD13	-2.62	7.44E-03
42	ABHD2	-3.62	1.06E-03
43	ABHD3	-1.82	1.62E-03
44	ABI1	-2.57	3.67E-03
45	ABI2	-4.31	8.54E-04
46	ABLIM1	-4.22	3.98E-03
47	ABTB1	-1.02	1.08E-01
48	ACAA1	-2.37	5.02E-03
49	ACAA2	-5.57	3.90E-03
50	ACAD11	-2.59	1.57E-03
51	ACAD8	-1.45	1.50E-03
52	ACAD9	-6.60	1.14E-04
53	ACADL	-6.22	4.68E-04
54	ACAD5	-1.75	1.67E-02
55	ACADS8	-1.64	2.00E-02
56	ACAP2	-2.89	1.79E-03
57	ACAT1	-3.48	1.18E-05
58	ACAT2	-2.70	1.20E-02
59	ACBD3	-3.03	6.73E-02
60	ACBD5	-5.88	3.39E-04
61	ACBD6	-1.76	7.40E-03
62	ACBD7	-7.72	2.57E-04

63	ACD	-1.45	5.27E-03
64	ACER3	-3.59	3.62E-04
65	ACN9	-3.62	8.10E-04
66	ACO1	-4.46	6.80E-04
67	ACO2	-4.72	1.11E-04
68	ACOT13	-5.53	2.93E-03
69	ACOT7	-5.64	9.19E-05
70	ACOT8	-2.12	1.77E-03
71	ACOT9	-2.74	6.04E-04
72	ACOX3	-2.17	1.18E-02
73	ACP1	-6.21	2.85E-04
74	ACP2	-5.35	4.63E-05
75	ACP6	-4.28	5.83E-04
76	ACPL2	-1.58	5.29E-03
77	ACPP	-1.49	1.42E-02
78	ACR	-5.33	4.58E-05
79	ACRC	-1.50	8.69E-03
80	ACSBG1	-1.06	3.92E-03
81	ACSBG2	-4.49	2.56E-04
82	ACSF2	-1.86	9.92E-04
83	ACSL1	-5.39	7.17E-05
84	ACSL3	-5.67	6.00E-04
85	ACSS1	-2.36	3.15E-04
86	ACSS2	-2.49	8.64E-05
87	ACSS3	-5.62	7.91E-04
88	ACTA1	-1.82	8.77E-04
89	ACTA2	-2.52	1.58E-03
90	ACTB	-5.37	6.04E-05
91	ACTG1	-4.56	6.40E-03
92	ACTL9	-2.25	3.64E-03
93	ACTN1	-3.08	1.79E-03
94	ACTR10	-5.66	4.03E-04
95	ACTR1A	-2.55	6.88E-04
96	ACTR2	-2.34	8.26E-03
97	ACTR3B	-1.30	2.48E-02
98	ACTR5	-3.90	1.53E-03
99	ACTR6	-4.51	1.74E-03
100	ACTR8	-4.12	4.39E-04
101	ACVR1	-4.50	1.18E-03
102	ACVR2A	-1.38	1.88E-02
103	ACYP1	-7.52	5.79E-04
104	ACYP2	-4.72	6.65E-04
105	ADA	-3.47	1.20E-03
106	ADAD1	-1.79	1.07E-01
107	ADAM10	-2.38	4.51E-03
108	ADAM15	-4.03	1.84E-03
109	ADAM17	-2.89	6.53E-04
110	ADAM20	-2.50	5.80E-04
111	ADAM32	-5.48	4.42E-04
112	ADAM9	-1.40	1.49E-02
113	ADAMTS13	-2.26	6.13E-03
114	ADAMTS5	-3.40	1.19E-03
115	ADAP2	-3.08	1.01E-02
116	ADAR	-1.68	4.82E-02
117	ADARB1	-1.82	1.92E-02
118	ADAT2	-5.67	1.44E-04
119	ADCK1	-1.43	3.45E-03
120	ADCK2	-3.11	5.25E-04
121	ADCY8	-4.53	2.00E-03
122	ADCY9	-6.02	1.22E-03
123	ADD1	-4.85	7.70E-04
124	ADD3	-2.33	1.80E-02
125	ADH5	-4.18	1.00E-03

126	ADH6	-1.50	9.09E-03
127	ADHFE1	-1.74	3.43E-02
128	ADIPOR1	-4.41	6.63E-04
129	ADIPOR2	-2.75	1.03E-02
130	ADK	-2.46	1.93E-01
131	ADNP	-4.87	1.36E-04
132	ADNP2	-1.62	6.64E-03
133	ADRM1	-4.34	1.00E-03
134	ADSL	-4.56	1.47E-04
135	ADSS	-5.19	9.90E-04
136	AEBP2	-4.00	5.63E-04
137	AEN	-1.44	1.34E-02
138	AF090088	-1.85	4.23E-03
139	AF170930	-5.33	1.20E-02
140	AF188735	-2.44	1.03E-02
141	AF308592	-4.87	1.92E-03
142	AF309648	-5.03	1.57E-04
143	AFF1	-2.99	5.42E-04
144	AFF4	-4.05	6.53E-04
145	AFG3L2	-5.10	8.95E-04
146	AFMID	-3.33	2.73E-03
147	AFTPH	-3.44	1.03E-03
148	AGAP1	-3.05	2.37E-04
149	AGBL3	-3.70	8.25E-04
150	AGBL4	-2.24	6.99E-04
151	AGFG1	-4.56	4.34E-04
152	AGPAT5	-2.15	4.06E-03
153	AGPAT6	-4.84	1.09E-04
154	AGPAT9	-5.77	1.37E-04
155	AGPHD1	-2.39	1.35E-02
156	AGPS	-1.55	6.55E-02
157	AGTRAP	-2.47	3.33E-03
158	AGXT2	-1.37	1.47E-03
159	AGXT2L2	-2.67	1.97E-03
160	AHCTF1	-2.14	1.03E-02
161	AHCY	-2.11	8.27E-03
162	AHCYL1	-1.35	4.18E-04
163	AHSA1	-7.63	3.00E-05
164	AHSA2	-4.70	9.71E-03
165	AIDA	-3.52	2.57E-03
166	AIF1L	-2.72	2.64E-02
167	AIFM1	-4.82	2.69E-04
168	AIG1	-3.38	9.95E-04
169	AIM1	-3.39	1.92E-03
170	AIMP1	-3.20	3.78E-04
171	AIMP2	-4.72	2.79E-03
172	AIP	-2.00	3.71E-04
173	AJ301880	-1.94	2.04E-02
174	AJ301881	-2.04	1.64E-02
175	AJ393608	-1.40	4.54E-02
176	AJ443802	-3.13	4.02E-03
177	AJ452155	-1.43	8.38E-03
178	AJ456460	-1.83	1.68E-03
179	AJ719505	-1.61	3.42E-03
180	AJ719778	-2.41	2.13E-02
181	AJ720157	-4.95	5.79E-04
182	AJ720254	-2.67	4.10E-03
183	AJ720285	-2.26	5.14E-02
184	AJ720512	-1.83	2.19E-03
185	AJ722492	-3.97	2.31E-05
186	AJ723596	-1.62	1.19E-02
187	AJ729193	-2.29	2.54E-02
188	AJ736817	-3.29	5.90E-03

189	AJ843259	-1.30	4.34E-04
190	AJ851519	-1.81	1.33E-01
191	AJ851720	-4.46	1.15E-03
192	AJ851804	-8.22	1.02E-03
193	AK1	-3.74	6.75E-05
194	AK3	-4.12	8.42E-04
195	AK7	-6.45	3.14E-05
196	AKAP1	-2.94	6.13E-04
197	AKAP10	-2.97	1.68E-03
198	AKAP12	-5.76	5.94E-04
199	AKAP14	-8.48	1.77E-04
200	AKAP17A	-2.01	2.42E-03
201	AKD1	-4.58	3.14E-04
202	AKIP1	-2.86	2.46E-02
203	AKIRIN2	-7.98	1.55E-05
204	AKR1A1	-1.27	5.21E-03
205	AKR1B10	-6.36	1.06E-05
206	AKR7A2	-4.51	6.83E-04
207	AKTIP	-5.90	3.07E-05
208	AL588186	-7.15	2.82E-05
209	ALAS1	-2.98	3.13E-03
210	ALDH1A2	-2.06	1.91E-02
211	ALDH2	-4.77	6.71E-05
212	ALDH3A2	-3.92	3.51E-04
213	ALDH4A1	-4.63	2.44E-03
214	ALDH7A1	-2.27	1.54E-03
215	ALDH9A1	-2.95	1.56E-03
216	ALDOA	-1.98	1.15E-02
217	ALDOC	-4.43	6.75E-04
218	ALG1	-2.05	5.76E-04
219	ALG10	-3.13	1.75E-04
220	ALG11	-5.58	1.37E-04
221	ALG13	-4.50	2.03E-04
222	ALG14	-3.84	2.21E-04
223	ALG2	-2.54	7.58E-03
224	ALG5	-3.59	5.15E-04
225	ALG6	-4.34	5.30E-03
226	ALG8	-4.30	9.97E-04
227	ALKBH1	-4.67	5.19E-04
228	ALKBH2	-3.00	7.81E-04
229	ALKBH4	-3.74	3.54E-03
230	ALKBH5	-3.52	1.24E-03
231	ALKBH8	-3.33	2.99E-03
232	ALMS1	-3.62	1.14E-03
233	ALOX5AP	-4.45	2.27E-03
234	AM284174	-1.67	5.00E-02
235	AMACR	-4.04	1.06E-04
236	AMBP	-4.02	1.79E-04
237	AMBRA1	-2.75	4.96E-04
238	AMD1	-4.17	2.68E-04
239	AMDHD1	-2.01	1.32E-03
240	AMDHD2	-3.33	7.25E-04
241	AMFR	-2.25	2.67E-02
242	AMH	-5.57	2.03E-04
243	AMIGO2	-1.45	1.92E-02
244	AMN1	-5.06	1.84E-04
245	AMT	-1.28	5.61E-02
246	AMY1A	-2.59	9.63E-03
247	ANAPC1	-5.00	2.83E-04
248	ANAPC10	-4.10	2.88E-04
249	ANAPC16	-6.15	5.38E-04
250	ANAPC2	-3.97	2.15E-04
251	ANAPC4	-4.03	6.65E-04

252	ANAPC5	-1.79	1.77E-02
253	ANAPC7	-1.82	1.10E-01
254	ANGEL1	-4.17	6.80E-04
255	ANGEL2	-3.55	4.72E-04
256	ANGPTL1	-5.06	1.39E-03
257	ANGPTL2	-2.99	7.80E-03
258	ANK2	-4.32	6.59E-03
259	ANK3	-1.77	4.28E-03
260	ANKH	-1.30	7.79E-03
261	ANKHD1	-2.73	1.64E-03
262	ANKLE2	-3.49	1.60E-03
263	ANKMY1	-6.79	6.42E-05
264	ANKMY2	-2.80	1.77E-03
265	ANKRA2	-2.77	2.28E-04
266	ANKRD10	-2.02	1.82E-03
267	ANKRD11	-3.87	2.56E-03
268	ANKRD13A	-2.69	5.62E-03
269	ANKRD13C	-3.47	1.97E-03
270	ANKRD16	-2.23	5.67E-03
271	ANKRD22	-2.35	2.31E-02
272	ANKRD26	-5.34	2.53E-04
273	ANKRD28	-1.32	1.34E-02
274	ANKRD32	-3.36	2.80E-04
275	ANKRD42	-2.20	1.15E-03
276	ANKRD46	-3.91	5.47E-06
277	ANKRD49	-2.90	7.85E-04
278	ANKRD50	-1.36	1.41E-02
279	ANKRD54	-1.94	8.02E-03
280	ANKRD9	-1.33	4.10E-04
281	ANKS3	-2.77	6.97E-04
282	ANKS6	-1.11	5.25E-03
283	ANKZF1	-1.83	1.34E-02
284	ANLN	-4.30	4.40E-04
285	ANO3	-2.49	1.20E-04
286	ANO4	-4.06	5.37E-03
287	ANP32B	-2.00	1.64E-02
288	ANP32E	-2.78	1.38E-03
289	ANXA11	-3.85	2.27E-03
290	ANXA2	-6.76	1.36E-04
291	ANXA5	-4.00	7.69E-04
292	ANXA7	-1.95	9.37E-03
293	AOX1	-1.88	6.65E-03
294	AP1G1	-4.64	6.63E-04
295	AP1M1	-2.94	3.23E-04
296	AP1S2	-4.17	1.29E-03
297	AP1S3	-4.50	3.00E-04
298	AP2A2	-2.27	3.56E-05
299	AP2M1	-4.97	1.87E-04
300	AP3B1	-3.35	3.81E-04
301	AP3M1	-6.07	8.22E-04
302	AP3S1	-4.66	5.66E-04
303	AP3S2	-3.83	2.39E-03
304	AP4B1	-2.54	3.79E-03
305	AP4E1	-1.08	1.11E-02
306	AP4S1	-3.15	3.95E-04
307	APBA1	-1.39	1.74E-02
308	APEH	-3.83	2.33E-03
309	API5	-2.18	5.09E-05
310	APITD1	-7.47	4.26E-05
311	APLF	-1.76	1.03E-02
312	APLP2	-4.29	4.04E-04
313	APOA1	-7.27	1.29E-04
314	APOH	-3.46	3.96E-03

315	APOO	-6.92	2.70E-03
316	APOOL	-1.44	4.94E-02
317	APOPT1	-4.09	1.99E-03
318	APP	-1.71	1.27E-02
319	APTX	-7.94	1.25E-04
320	AQP7	-6.18	1.13E-03
321	AQR	-2.82	7.47E-05
322	ARBP	-2.92	4.87E-03
323	ARCN1	-4.74	1.40E-04
324	ARF1	-6.69	2.34E-05
325	ARF4	-6.74	6.97E-05
326	ARF6	-1.73	8.10E-02
327	ARFGAP1	-2.59	5.33E-03
328	ARFGAP2	-2.76	9.35E-03
329	ARFGAP3	-5.21	1.06E-03
330	ARFGEF1	-1.66	1.36E-04
331	ARFGEF2	-1.87	6.55E-03
332	ARFIP1	-1.80	1.06E-02
333	ARFRP1	-4.68	2.62E-04
334	ARG2	-4.78	1.06E-03
335	ARGLU1	-6.62	3.39E-04
336	ARHGAP10	-2.10	2.66E-03
337	ARHGAP11A	-4.08	2.01E-03
338	ARHGAP12	-3.54	2.33E-03
339	ARHGAP17	-1.86	2.31E-03
340	ARHGAP19	-3.67	8.40E-05
341	ARHGAP21	-3.22	8.13E-05
342	ARHGAP29	-2.54	6.69E-03
343	ARHGAP35	-1.95	1.84E-02
344	ARHGAP5	-2.82	1.25E-03
345	ARHGDI	-1.73	4.01E-02
346	ARHGEF12	-1.57	4.33E-04
347	ARHGEF16	-1.17	2.80E-03
348	ARHGEF18	-1.38	5.57E-03
349	ARHGEF19	-1.53	1.19E-02
350	ARHGEF26	-2.17	3.24E-03
351	ARHGEF9	-5.29	7.67E-04
352	ARID2	-4.26	3.31E-03
353	ARID3B	-5.66	3.62E-05
354	ARID4A	-3.13	4.22E-04
355	ARID5B	-1.29	2.68E-02
356	ARIH1	-6.13	1.74E-05
357	ARIH2	-3.27	1.08E-03
358	ARL1	-4.13	1.32E-03
359	ARL13B	-6.60	4.89E-05
360	ARL14EP	-5.68	2.17E-05
361	ARL2BP	-1.33	1.52E-02
362	ARL3	-5.78	4.89E-04
363	ARL4A	-1.18	3.65E-03
364	ARL5B	-2.58	6.27E-04
365	ARL6	-4.00	5.58E-04
366	ARL6IP1	-5.04	8.12E-04
367	ARL6IP4	-3.30	2.22E-03
368	ARL6IP5	-4.19	2.99E-04
369	ARL8B	-4.73	8.85E-04
370	ARMC1	-3.70	2.23E-03
371	ARMC10	-2.26	8.62E-03
372	ARMC2	-4.58	2.65E-03
373	ARMC3	-2.82	6.02E-04
374	ARMC6	-4.16	4.42E-03
375	ARMC7	-3.40	2.38E-06
376	ARMC8	-2.32	6.94E-02
377	ARMC9	-1.74	7.19E-03

378	ARNT	-3.25	6.32E-04
379	ARNTL	-1.27	1.54E-03
380	ARPC1A	-4.43	6.02E-03
381	ARPC2	-5.17	1.17E-04
382	ARPC3	-3.78	1.37E-03
383	ARPC4	-4.33	1.08E-04
384	ARPC5	-3.06	2.03E-03
385	ARPC5L	-3.76	2.91E-04
386	ARPP19	-4.44	1.17E-04
387	ARRDC1	-3.47	1.12E-03
388	ARRDC2	-2.01	6.20E-03
389	ARRDC3	-1.79	4.05E-03
390	ARSG	-1.73	1.40E-03
391	ARVCF	-1.19	3.26E-02
392	ASAH1	-3.68	3.23E-04
393	ASAP1	-4.52	3.14E-04
394	ASAP2	-1.98	2.76E-02
395	ASB14	-1.42	5.04E-03
396	ASB15	-1.50	3.21E-02
397	ASB5	-1.64	3.47E-02
398	ASB8	-1.21	1.77E-02
399	ASCC2	-3.51	1.79E-04
400	ASF1A	-6.31	1.90E-05
401	ASH2L	-4.26	8.79E-04
402	ASMTL	-3.51	5.10E-04
403	ASNS	-1.42	7.65E-02
404	ASNSD1	-5.41	1.78E-03
405	ASPH	-3.18	1.77E-03
406	ASPM	-3.55	7.18E-04
407	ASXL3	-2.31	1.19E-02
408	ASZ1	-3.20	1.75E-04
409	ATAD1	-3.20	8.49E-03
410	ATAD2B	-4.50	2.54E-04
411	ATAD5	-3.10	5.02E-04
412	ATF4	-6.21	2.12E-04
413	ATF7IP	-3.73	6.92E-04
414	ATG12	-4.43	7.28E-05
415	ATG16L1	-4.60	1.95E-05
416	ATG3	-4.02	4.58E-03
417	ATG4B	-2.62	3.62E-03
418	ATG5	-2.13	6.05E-03
419	ATG7	-1.72	1.00E-02
420	ATG9A	-1.95	2.32E-03
421	ATIC	-5.18	4.77E-04
422	ATL1	-2.83	4.10E-04
423	ATM	-2.12	1.28E-03
424	ATOX1	-5.21	1.73E-03
425	ATP10D	-2.92	6.37E-03
426	ATP11A	-2.37	3.24E-04
427	ATP11B	-3.00	2.38E-03
428	ATP12A	-1.56	1.25E-02
429	ATP13A1	-1.59	4.84E-04
430	ATP13A4	-2.40	8.43E-03
431	ATP1A1	-4.55	7.60E-04
432	ATP1B1	-3.89	5.47E-03
433	ATP1B3	-2.84	1.40E-02
434	ATP2A2	-1.85	2.80E-02
435	ATP2C1	-3.08	5.45E-04
436	ATP5A1	-5.54	6.35E-04
437	ATP5A1W	-4.21	8.25E-04
438	ATP5B	-4.58	1.10E-03
439	ATP5C1	-8.41	5.02E-04
440	ATP5E	-7.21	1.24E-04

441	ATP5F1	-6.49	6.61E-04
442	ATP5G1	-3.80	2.27E-03
443	ATP5G3	-7.46	8.11E-05
444	ATP5H	-8.09	1.02E-04
445	ATP5I	-8.29	1.26E-04
446	ATP5J	-5.71	4.26E-03
447	ATP5J2	-5.88	3.21E-03
448	ATP5O	-8.29	3.08E-04
449	ATP5S	-4.11	2.13E-03
450	ATP6	-8.27	5.15E-03
451	ATP6AP1	-3.54	3.47E-03
452	ATP6AP1L	-2.40	2.04E-03
453	ATP6AP2	-4.72	6.35E-04
454	ATP6VOA1	-1.54	1.51E-04
455	ATP6VOA2	-3.95	3.44E-03
456	ATP6VOD1	-1.36	4.73E-03
457	ATP6VOE1	-6.56	1.64E-04
458	ATP6VOE2	-2.63	6.66E-03
459	ATP6V1A	-3.26	3.81E-04
460	ATP6V1B2	-5.63	3.48E-05
461	ATP6V1D	-8.59	3.81E-05
462	ATP6V1E1	-5.78	1.01E-04
463	ATP6V1G1	-8.58	1.21E-05
464	ATP6V1H	-1.49	2.32E-03
465	ATP7B	-1.06	3.64E-04
466	ATP8	-4.58	1.98E-02
467	ATP8A2	-2.14	7.67E-03
468	ATPAF1	-3.14	6.60E-03
469	ATPAF2	-3.00	7.52E-04
470	ATRX	-5.20	2.29E-03
471	ATXN1	-1.99	1.45E-03
472	ATXN10	-4.05	1.55E-03
473	ATXN2	-1.32	5.07E-02
474	ATXN3	-4.19	1.12E-03
475	ATXN7	-4.73	1.13E-04
476	ATXN7L1	-1.26	9.06E-04
477	AURKA	-5.43	7.36E-04
478	AURKAIP1	-6.38	4.50E-04
479	AVEN	-8.10	7.55E-05
480	AVL9	-1.48	4.55E-03
481	AXIN1	-2.67	1.01E-03
482	AZI1	-3.33	1.15E-03
483	AZIN1	-3.76	1.65E-03
484	B2M	-5.45	1.67E-05
485	B3GAT2	-2.43	1.15E-02
486	B3GAT3	-2.50	4.83E-03
487	B3GNT2	-3.96	9.41E-04
488	B3GNT5	-6.23	2.27E-04
489	B4GALT1	-2.14	1.35E-03
490	B4GALT2	-4.55	1.15E-03
491	B4GALT3	-5.28	2.59E-04
492	B4GALT4	-3.01	2.90E-03
493	B4GALT6	-2.82	1.14E-03
494	B4GALT7	-4.11	2.82E-03
495	B9D1	-3.86	2.10E-05
496	BACE2	-1.94	5.57E-04
497	BACH1	-1.96	2.89E-02
498	BAG1	-3.52	2.72E-04
499	BAG2	-1.50	8.37E-02
500	BAG3	-2.38	3.20E-02
501	BAG4	-2.85	9.85E-04
502	BAHD1	-5.12	1.62E-05
503	BAMBI	-3.11	1.60E-03

504	BAP1	-2.13	1.07E-02
505	BARD1	-2.02	1.88E-04
506	BASP1	-3.66	1.22E-02
507	BAZ1A	-5.34	3.46E-05
508	BAZ1B	-1.11	3.59E-04
509	BAZ2B	-3.97	4.47E-03
510	BBS10	-3.52	1.36E-04
511	BBS12	-3.05	1.89E-03
512	BBS2	-4.18	4.47E-04
513	BBS4	-4.67	6.21E-04
514	BBS5	-2.91	4.05E-04
515	BBS7	-1.39	1.03E-02
516	BBS9	-2.10	2.43E-03
517	BBX	-3.78	1.39E-04
518	BCAP29	-7.77	8.64E-04
519	BCAR1	-4.94	9.26E-05
520	BCAR3	-6.08	2.03E-04
521	BCAS2	-5.79	1.47E-04
522	BCAS3	-1.49	1.08E-02
523	BCHE	-1.85	2.34E-03
524	BCKDHA	-2.34	1.35E-03
525	BCKDHB	-2.91	8.11E-04
526	BCL10	-1.68	5.41E-03
527	BCL2L1	-1.25	1.11E-03
528	BCL6	-1.18	7.12E-03
529	BCL7A	-1.17	2.16E-02
530	BCLAF1	-1.27	4.73E-03
531	BCO2	-1.61	5.42E-03
532	BCR	-2.99	1.56E-03
533	BCS1L	-2.86	1.28E-03
534	BD173581	-3.72	9.59E-03
535	BDH1	-5.87	1.43E-04
536	BDH2	-2.92	2.97E-04
537	BEND3	-1.04	8.71E-04
538	BEND5	-2.37	1.33E-02
539	BEND7	-6.19	4.57E-04
540	BET1L	-4.14	2.64E-04
541	BF845664	-4.05	3.11E-02
542	BFAR	-1.52	4.07E-03
543	BFSP1	-1.18	2.58E-02
544	BGLAP	-2.05	4.92E-02
545	BICD1	-1.98	1.14E-02
546	BICD2	-3.36	3.04E-03
547	BID	-3.19	8.17E-04
548	BIN1	-1.68	6.55E-02
549	BIRC2	-2.58	4.51E-04
550	BIRC5	-7.33	6.57E-06
551	BIRC6	-2.18	6.62E-04
552	BIVM	-2.72	6.31E-04
553	BLB2	-1.67	1.38E-02
554	BLM	-3.12	8.16E-05
555	BLMH	-3.20	4.60E-04
556	BLOC1S2	-5.02	1.56E-04
557	BLZF1	-3.97	3.90E-04
558	BM489687	-3.00	5.08E-04
559	BMP2K	-2.70	3.02E-04
560	BMPR2	-1.67	1.02E-03
561	BMS1	-1.84	3.84E-03
562	BNIP2	-4.55	5.48E-04
563	BNIP3	-3.02	2.28E-03
564	BNIP3L	-2.36	3.53E-04
565	BOC	-2.62	4.41E-04
566	BOD1	-4.56	1.56E-04

567	BOLL	-1.22	6.70E-03
568	BORA	-5.05	5.36E-04
569	BPGM	-3.86	2.60E-04
570	BPHL	-1.54	1.14E-02
571	BPNT1	-3.05	2.02E-03
572	BRAT1	-3.11	5.90E-04
573	BRCA1	-3.26	3.74E-04
574	BRCA2	-4.01	3.05E-04
575	BRCC3	-3.01	4.67E-04
576	BRD1	-2.00	4.94E-03
577	BRD2	-1.98	5.77E-03
578	BRD3	-4.29	4.77E-04
579	BRD4	-2.77	6.23E-04
580	BRD7	-7.54	5.95E-04
581	BRD8	-1.10	3.06E-03
582	BRE	-4.96	2.47E-04
583	BRF1	-3.24	1.43E-04
584	BRIP1	-3.83	4.53E-04
585	BRIX1	-6.02	1.46E-04
586	BRMS1L	-3.18	3.03E-03
587	BROX	-3.16	7.62E-04
588	BRP44	-6.19	3.32E-04
589	BRP44L	-2.85	8.34E-03
590	BRSK2	-4.25	4.30E-03
591	BRUNOL6	-2.16	2.86E-03
592	BRWD1	-3.41	1.22E-04
593	BSDC1	-5.74	1.90E-05
594	BSG	-4.58	7.70E-04
595	BST1	-1.66	7.23E-03
596	BTBD1	-2.51	8.08E-03
597	BTBD10	-4.43	1.33E-03
598	BTBD7	-2.43	1.51E-02
599	BTBD9	-1.15	6.77E-03
600	BTC	-1.80	3.21E-03
601	BTD	-6.43	3.02E-04
602	BTF3	-6.60	4.21E-04
603	BTF3L4	-4.46	7.03E-04
604	BTG1	-4.90	2.65E-03
605	BU104491	-1.21	1.56E-02
606	BU108528	-2.99	5.25E-03
607	BU109100	-1.54	2.10E-02
608	BU109404	-4.33	1.88E-03
609	BU111680	-2.81	3.88E-03
610	BU113518	-2.98	3.72E-05
611	BU113971	-3.56	1.21E-03
612	BU114246	-1.27	5.27E-03
613	BU114269	-3.60	2.25E-05
614	BU115588	-2.12	9.91E-03
615	BU116401	-1.34	6.84E-03
616	BU116406	-1.95	1.04E-02
617	BU116459	-1.53	3.05E-03
618	BU117124	-2.17	2.99E-04
619	BU118729	-1.27	3.06E-02
620	BU119676	-1.87	8.49E-03
621	BU121308	-3.91	2.28E-03
622	BU128167	-3.25	3.59E-03
623	BU130275	-4.29	4.73E-04
624	BU130630	-2.93	1.80E-03
625	BU134586	-2.28	9.39E-03
626	BU136639	-7.32	9.35E-04
627	BU137418	-6.14	1.39E-03
628	BU137447	-1.97	1.51E-02
629	BU139275	-1.62	4.66E-03

630	BU140555	-1.81	3.27E-03
631	BU142555	-1.20	9.05E-03
632	BU144368	-4.13	5.16E-04
633	BU202730	-3.71	1.33E-04
634	BU203419	-6.01	6.56E-05
635	BU204424	-3.45	1.92E-03
636	BU211126	-5.36	3.28E-04
637	BU211163	-1.24	3.85E-03
638	BU213140	-2.12	2.76E-03
639	BU214537	-2.52	1.43E-02
640	BU215540	-2.95	3.64E-03
641	BU216024	-2.61	1.91E-02
642	BU217054	-5.28	2.06E-03
643	BU217171	-6.15	6.12E-05
644	BU217492	-1.33	2.90E-03
645	BU219775	-2.11	2.90E-03
646	BU220187	-3.03	7.97E-03
647	BU220292	-3.09	9.48E-03
648	BU221066	-1.33	7.00E-03
649	BU221176	-1.32	1.58E-03
650	BU222144	-4.25	8.53E-04
651	BU222871	-3.73	8.82E-04
652	BU228041	-5.95	8.47E-04
653	BU230533	-1.70	1.43E-02
654	BU232990	-2.65	1.63E-03
655	BU233039	-4.01	1.02E-03
656	BU234200	-5.48	1.98E-04
657	BU234845	-1.75	3.60E-03
658	BU236609	-3.20	9.73E-03
659	BU237399	-2.34	4.31E-03
660	BU239725	-1.85	6.06E-03
661	BU240502	-5.70	3.37E-05
662	BU242143	-1.88	1.78E-02
663	BU242606	-1.65	1.03E-02
664	BU242613	-5.65	1.74E-05
665	BU242939	-3.31	1.18E-02
666	BU245643	-2.30	1.03E-03
667	BU250162	-3.46	7.82E-03
668	BU254568	-1.43	1.01E-01
669	BU257618	-3.88	7.43E-03
670	BU259793	-3.44	1.01E-05
671	BU262292	-2.64	2.20E-03
672	BU264475	-2.16	1.57E-02
673	BU269286	-1.37	2.50E-03
674	BU273126	-1.74	3.89E-03
675	BU273691	-6.12	1.54E-04
676	BU275217	-3.26	8.60E-04
677	BU275369	-2.07	3.15E-03
678	BU277859	-4.76	2.40E-03
679	BU278479	-1.77	1.98E-02
680	BU278743	-1.92	1.98E-03
681	BU279507	-1.41	2.87E-02
682	BU280333	-1.56	1.27E-02
683	BU282626	-1.51	2.33E-02
684	BU288461	-3.05	3.88E-03
685	BU292776	-2.45	8.65E-03
686	BU295319	-1.28	2.34E-02
687	BU295520	-1.95	2.49E-03
688	BU299492	-2.60	4.19E-03
689	BU300843	-2.01	8.26E-03
690	BU303451	-2.31	4.02E-03
691	BU304798	-1.73	6.21E-04
692	BU306831	-3.87	3.89E-03

693	BU308973	-2.31	3.46E-03
694	BU309453	-4.65	6.19E-05
695	BU311548	-4.66	7.51E-03
696	BU316125	-1.77	2.07E-04
697	BU319139	-1.15	1.75E-02
698	BU319249	-2.27	7.46E-04
699	BU322109	-1.69	6.28E-02
700	BU322203	-3.30	4.74E-03
701	BU322364	-3.98	1.43E-04
702	BU323306	-2.13	4.07E-04
703	BU324289	-5.20	1.35E-03
704	BU327019	-1.17	1.66E-02
705	BU330375	-5.38	1.15E-03
706	BU332430	-3.81	3.18E-05
707	BU334825	-2.39	1.01E-02
708	BU337284	-3.72	1.19E-04
709	BU338027	-4.32	8.24E-04
710	BU339296	-4.61	4.46E-03
711	BU340250	-1.67	7.96E-03
712	BU343566	-3.55	5.19E-03
713	BU344120	-4.80	3.29E-04
714	BU347374	-6.15	6.26E-04
715	BU349378	-3.99	7.73E-04
716	BU350246	-2.77	7.99E-03
717	BU350976	-3.36	4.42E-04
718	BU351391	-1.75	5.78E-02
719	BU352584	-2.27	5.20E-03
720	BU354789	-7.54	1.54E-04
721	BU355364	-2.73	8.48E-04
722	BU368370	-2.65	2.10E-03
723	BU370425	-3.90	2.54E-03
724	BU370618	-1.11	3.95E-02
725	BU371327	-3.28	1.11E-02
726	BU371925	-3.01	1.53E-02
727	BU373399	-2.08	2.86E-02
728	BU375502	-2.88	4.90E-05
729	BU377969	-3.75	1.31E-03
730	BU378738	-4.33	2.41E-04
731	BU382899	-2.73	6.19E-03
732	BU383595	-2.05	4.57E-03
733	BU385229	-2.49	2.48E-03
734	BU385935	-3.63	2.61E-02
735	BU386892	-3.08	6.96E-03
736	BU388045	-2.31	1.16E-02
737	BU389255	-3.39	9.29E-04
738	BU389520	-1.39	9.24E-03
739	BU393834	-1.25	3.72E-03
740	BU399392	-2.73	1.90E-02
741	BU399899	-1.78	7.00E-03
742	BU401633	-3.60	1.14E-04
743	BU406711	-1.95	3.45E-03
744	BU410862	-3.45	5.30E-05
745	BU412051	-4.86	1.41E-04
746	BU412468	-1.17	3.75E-03
747	BU413222	-4.08	1.59E-03
748	BU414688	-3.63	1.46E-03
749	BU416228	-1.99	7.88E-03
750	BU418491	-2.77	6.24E-04
751	BU419298	-1.39	1.65E-02
752	BU420213	-2.40	4.99E-03
753	BU422033	-1.31	5.21E-03
754	BU422489	-2.07	9.41E-04
755	BU423835	-3.00	1.91E-03

756	BU424467	-2.17	4.49E-03
757	BU426033	-4.16	6.18E-04
758	BU427251	-3.38	3.75E-03
759	BU427545	-3.06	2.99E-03
760	BU432081	-5.43	2.53E-04
761	BU432383	-1.97	1.84E-04
762	BU434282	-2.17	1.60E-03
763	BU435083	-5.49	9.44E-05
764	BU435210	-3.76	2.05E-03
765	BU435717	-3.41	2.54E-04
766	BU437151	-2.38	7.34E-04
767	BU438351	-1.40	1.33E-03
768	BU439396	-3.70	1.02E-04
769	BU442664	-4.83	2.51E-05
770	BU445593	-5.08	5.57E-03
771	BU445963	-2.50	1.00E-02
772	BU446528	-4.84	4.05E-04
773	BU447721	-6.30	1.33E-05
774	BU447799	-2.02	1.92E-03
775	BU448880	-2.69	1.35E-03
776	BU457104	-8.17	1.49E-04
777	BU459548	-7.13	2.30E-05
778	BU461178	-2.31	3.60E-02
779	BU461476	-5.58	7.08E-04
780	BU462304	-1.37	2.49E-04
781	BU462330	-2.42	2.76E-02
782	BU464906	-2.32	1.09E-02
783	BU465760	-3.84	1.18E-03
784	BU467036	-3.19	2.37E-03
785	BU483329	-2.86	2.06E-04
786	BUB1	-5.60	1.01E-03
787	BUB1B	-4.53	2.56E-04
788	BUB3	-6.63	6.43E-05
789	BUD13	-3.93	6.77E-03
790	BUD31	-7.27	5.65E-05
791	BVES	-4.56	1.08E-05
792	BX256978	-5.55	1.99E-03
793	BX258241	-2.65	7.64E-03
794	BX258353	-3.72	3.07E-03
795	BX259218	-5.06	7.94E-05
796	BX259370	-4.79	5.53E-05
797	BX259812	-5.92	1.23E-05
798	BX259979	-2.14	1.09E-02
799	BX261305	-3.87	2.45E-03
800	BX262960	-2.68	9.70E-03
801	BX263196	-2.04	9.65E-04
802	BX266154	-4.38	3.73E-03
803	BX266529	-3.91	3.62E-03
804	BX266754	-4.61	1.77E-04
805	BX267869	-2.14	3.70E-02
806	BX267901	-2.68	9.37E-04
807	BX267911	-7.01	5.86E-04
808	BX270141	-1.28	3.45E-02
809	BX270748	-1.88	1.13E-01
810	BX271803	-6.13	1.40E-03
811	BX272269	-4.00	2.39E-03
812	BX273792	-5.77	1.16E-04
813	BX274617	-3.07	1.51E-03
814	BX275540	-2.33	1.30E-02
815	BX277450	-2.37	2.66E-02
816	BX277726	-1.74	1.40E-02
817	BX278173	-5.49	1.93E-04
818	BX929312	-7.41	1.35E-03

819	BX929336	-1.50	3.39E-03
820	BX929356	-4.53	2.43E-03
821	BX929359	-7.64	2.56E-04
822	BX929412	-8.37	2.15E-03
823	BX929445	-6.55	1.88E-04
824	BX929508	-7.31	1.29E-03
825	BX929566	-1.55	3.36E-03
826	BX929600	-2.94	3.43E-03
827	BX929608	-3.42	9.81E-04
828	BX929625	-2.89	4.90E-03
829	BX929643	-7.58	4.73E-04
830	BX929646	-7.41	1.88E-03
831	BX929653	-3.02	3.46E-02
832	BX929657	-2.91	8.39E-03
833	BX929658	-2.06	2.46E-02
834	BX929659	-1.68	1.63E-02
835	BX929752	-1.84	3.83E-02
836	BX929780	-2.75	4.06E-03
837	BX929805	-1.43	7.36E-03
838	BX929816	-7.58	2.27E-05
839	BX929823	-3.64	6.67E-06
840	BX929830	-1.95	9.74E-03
841	BX929854	-2.45	1.12E-04
842	BX929874	-5.33	4.48E-03
843	BX929896	-4.90	7.68E-05
844	BX929907	-1.87	8.99E-03
845	BX929911	-4.55	1.46E-03
846	BX929922	-2.84	3.87E-05
847	BX929970	-4.75	2.20E-03
848	BX929986	-1.38	2.02E-02
849	BX930001	-1.44	7.42E-03
850	BX930013	-3.65	3.62E-03
851	BX930022	-2.97	4.80E-03
852	BX930038	-3.13	5.08E-04
853	BX930055	-3.70	3.68E-03
854	BX930110	-2.71	2.26E-02
855	BX930116	-3.78	8.39E-04
856	BX930129	-2.73	9.82E-03
857	BX930197	-2.98	2.92E-02
858	BX930251	-5.15	2.86E-04
859	BX930253	-3.35	1.09E-03
860	BX930276	-4.34	5.75E-04
861	BX930288	-2.20	1.69E-03
862	BX930337	-5.68	3.25E-04
863	BX930354	-5.71	8.25E-04
864	BX930362	-2.53	9.31E-04
865	BX930423	-1.23	5.83E-03
866	BX930460	-2.38	1.47E-03
867	BX930474	-4.21	2.08E-02
868	BX930483	-8.27	6.80E-05
869	BX930497	-2.87	2.70E-03
870	BX930540	-1.72	8.03E-03
871	BX930547	-4.74	1.04E-03
872	BX930569	-1.95	6.65E-03
873	BX930638	-6.99	7.02E-04
874	BX930641	-4.31	6.17E-04
875	BX930647	-5.36	9.27E-03
876	BX930675	-4.18	1.29E-03
877	BX930689	-1.81	9.69E-02
878	BX930718	-3.62	1.88E-03
879	BX930756	-1.46	9.83E-03
880	BX930765	-4.37	1.87E-04
881	BX930836	-4.15	3.08E-03

882	BX930863	-3.01	4.78E-03
883	BX930931	-8.62	1.80E-03
884	BX931089	-6.53	4.35E-05
885	BX931113	-2.81	7.27E-03
886	BX931120	-1.91	7.66E-03
887	BX931154	-1.92	3.49E-03
888	BX931202	-1.24	8.34E-02
889	BX931223	-3.42	2.83E-03
890	BX931282	-7.45	5.39E-06
891	BX931290	-3.45	3.50E-04
892	BX931315	-3.33	5.18E-04
893	BX931335	-5.55	7.01E-04
894	BX931342	-3.30	1.95E-02
895	BX931362	-7.21	3.56E-04
896	BX931370	-2.99	4.82E-04
897	BX931384	-2.40	2.06E-02
898	BX931429	-1.28	2.48E-05
899	BX931431	-5.30	1.23E-02
900	BX931465	-5.65	1.55E-03
901	BX931488	-3.12	1.45E-03
902	BX931529	-6.58	3.81E-04
903	BX931573	-2.51	4.43E-04
904	BX931588	-3.76	1.23E-05
905	BX931611	-5.87	1.95E-04
906	BX931660	-2.35	2.62E-03
907	BX931678	-5.10	1.58E-03
908	BX931702	-3.41	3.32E-03
909	BX931721	-6.13	6.34E-04
910	BX931729	-1.98	3.86E-03
911	BX931754	-1.41	8.83E-03
912	BX931841	-5.42	1.15E-03
913	BX931846	-4.31	6.74E-04
914	BX931853	-3.60	9.06E-03
915	BX931896	-3.30	1.59E-02
916	BX931917	-7.57	4.65E-03
917	BX932001	-8.31	1.76E-04
918	BX932003	-8.07	1.15E-04
919	BX932036	-5.88	1.08E-03
920	BX932044	-3.40	2.04E-03
921	BX932052	-5.73	1.51E-03
922	BX932054	-3.31	1.45E-03
923	BX932063	-7.23	7.12E-03
924	BX932065	-4.38	7.77E-04
925	BX932136	-5.41	1.06E-03
926	BX932151	-6.93	2.63E-03
927	BX932188	-5.32	2.10E-04
928	BX932191	-3.71	1.78E-03
929	BX932205	-5.49	2.67E-04
930	BX932216	-1.98	6.73E-03
931	BX932246	-1.77	1.36E-02
932	BX932256	-3.29	2.53E-04
933	BX932291	-2.94	5.86E-03
934	BX932341	-3.13	1.19E-03
935	BX932364	-5.94	8.56E-04
936	BX932371	-2.27	3.52E-02
937	BX932373	-5.47	1.62E-04
938	BX932413	-3.66	4.98E-04
939	BX932430	-5.06	5.93E-04
940	BX932451	-1.58	9.12E-03
941	BX932459	-1.49	3.60E-03
942	BX932460	-1.97	8.78E-02
943	BX932549	-2.82	2.80E-04
944	BX932555	-2.18	5.43E-04

945	BX932580	-2.66	1.25E-03
946	BX932594	-5.04	9.28E-03
947	BX932599	-5.16	5.88E-04
948	BX932600	-8.57	1.82E-04
949	BX932616	-3.13	6.22E-03
950	BX932629	-8.35	2.71E-04
951	BX932642	-8.72	1.54E-04
952	BX932650	-3.17	2.82E-03
953	BX932687	-1.72	1.05E-03
954	BX932708	-3.17	6.30E-02
955	BX932735	-4.85	1.72E-03
956	BX932774	-2.50	4.51E-03
957	BX932786	-1.62	4.15E-04
958	BX932795	-1.26	4.12E-02
959	BX932816	-2.89	1.12E-01
960	BX932837	-1.31	3.33E-03
961	BX932840	-1.65	4.27E-02
962	BX932849	-2.20	1.37E-02
963	BX932862	-6.15	2.89E-04
964	BX932874	-5.52	4.24E-04
965	BX932877	-7.50	4.29E-04
966	BX932933	-1.12	1.71E-02
967	BX932982	-1.50	4.33E-03
968	BX932985	-1.89	5.80E-04
969	BX932992	-4.64	3.60E-03
970	BX933001	-7.25	4.99E-04
971	BX933017	-1.92	6.89E-03
972	BX933023	-2.58	3.08E-03
973	BX933071	-3.29	2.18E-03
974	BX933147	-1.18	7.41E-03
975	BX933160	-3.31	2.14E-02
976	BX933174	-3.30	2.13E-03
977	BX933193	-7.57	1.23E-04
978	BX933195	-1.84	4.51E-02
979	BX933198	-2.30	4.47E-02
980	BX933211	-2.30	2.26E-02
981	BX933251	-3.96	8.06E-03
982	BX933278	-3.76	1.20E-03
983	BX933376	-5.54	1.57E-03
984	BX933403	-4.12	6.15E-04
985	BX933422	-2.17	1.37E-02
986	BX933430	-3.32	1.31E-03
987	BX933456	-3.26	9.99E-04
988	BX933458	-2.27	6.26E-03
989	BX933470	-1.19	3.32E-02
990	BX933593	-1.40	2.77E-02
991	BX933633	-3.48	2.74E-02
992	BX933729	-6.52	6.79E-04
993	BX933749	-1.56	8.68E-03
994	BX933755	-5.99	1.20E-04
995	BX933777	-2.11	1.04E-03
996	BX933792	-4.62	4.54E-04
997	BX933822	-7.42	2.84E-04
998	BX933824	-4.86	2.03E-04
999	BX933903	-5.64	2.42E-02
1000	BX933916	-4.50	2.94E-03
1001	BX933931	-1.74	7.35E-03
1002	BX934035	-7.07	3.73E-04
1003	BX934048	-7.33	8.48E-05
1004	BX934051	-1.12	7.15E-03
1005	BX934089	-4.75	2.10E-03
1006	BX934095	-6.49	8.16E-05
1007	BX934107	-4.32	1.13E-02

1008	BX934113	-7.69	2.71E-03
1009	BX934127	-2.68	4.49E-03
1010	BX934164	-3.19	1.69E-03
1011	BX934201	-4.88	2.52E-03
1012	BX934247	-3.75	1.88E-03
1013	BX934273	-3.08	3.91E-03
1014	BX934293	-4.59	1.97E-03
1015	BX934316	-1.85	3.92E-02
1016	BX934379	-1.16	9.13E-04
1017	BX934422	-4.60	2.41E-03
1018	BX934434	-1.94	1.40E-02
1019	BX934492	-6.90	2.24E-03
1020	BX934615	-4.77	2.56E-04
1021	BX934739	-4.52	3.61E-04
1022	BX934745	-5.15	1.04E-03
1023	BX934757	-2.73	2.50E-03
1024	BX934779	-3.61	2.24E-03
1025	BX934859	-2.29	2.99E-03
1026	BX934897	-3.14	7.11E-03
1027	BX934918	-7.03	1.68E-03
1028	BX934943	-2.82	8.95E-03
1029	BX934945	-4.11	9.26E-04
1030	BX935016	-5.95	3.79E-04
1031	BX935057	-5.50	1.42E-03
1032	BX935059	-6.24	9.34E-03
1033	BX935093	-1.53	1.30E-02
1034	BX935100	-1.99	6.59E-04
1035	BX935104	-3.18	8.33E-03
1036	BX935110	-1.69	3.62E-02
1037	BX935137	-8.44	2.22E-04
1038	BX935301	-3.73	3.46E-03
1039	BX935369	-5.21	5.67E-04
1040	BX935396	-6.53	9.89E-04
1041	BX935398	-3.85	3.35E-04
1042	BX935421	-4.14	1.12E-03
1043	BX935424	-4.55	1.63E-03
1044	BX935455	-3.59	9.27E-06
1045	BX935460	-3.53	4.88E-03
1046	BX935465	-4.35	1.09E-03
1047	BX935490	-2.41	6.11E-03
1048	BX935537	-2.30	2.66E-03
1049	BX935585	-3.34	1.59E-02
1050	BX935592	-5.89	3.82E-04
1051	BX935599	-3.88	3.71E-03
1052	BX935603	-2.49	3.01E-02
1053	BX935608	-2.78	7.73E-04
1054	BX935611	-1.77	2.32E-02
1055	BX935614	-2.10	9.56E-03
1056	BX935617	-6.82	1.30E-03
1057	BX935654	-6.10	4.73E-04
1058	BX935655	-5.05	2.86E-04
1059	BX935662	-2.23	2.46E-02
1060	BX935670	-2.40	3.10E-03
1061	BX935682	-1.42	1.56E-02
1062	BX935684	-3.86	4.30E-03
1063	BX935690	-1.35	4.88E-03
1064	BX935718	-1.54	2.71E-02
1065	BX935724	-2.35	7.41E-03
1066	BX935738	-6.69	8.39E-04
1067	BX935740	-1.45	3.26E-03
1068	BX935828	-1.40	7.21E-02
1069	BX935876	-2.56	1.20E-03
1070	BX935919	-1.10	4.15E-02

1071	BX935933	-5.51	2.16E-03
1072	BX935950	-1.41	9.12E-03
1073	BX935964	-2.91	8.23E-04
1074	BX935983	-2.65	3.38E-03
1075	BX935992	-5.39	4.10E-04
1076	BX936015	-4.45	3.44E-04
1077	BX936034	-1.82	1.69E-04
1078	BX936058	-4.63	9.21E-04
1079	BX936085	-2.80	4.08E-03
1080	BX936099	-2.04	1.26E-02
1081	BX936147	-4.66	3.93E-06
1082	BX936170	-3.48	1.47E-02
1083	BX936183	-5.36	1.29E-03
1084	BX936185	-2.17	4.58E-03
1085	BX936203	-7.40	3.22E-04
1086	BX936238	-3.05	4.39E-04
1087	BX950246	-6.66	9.75E-05
1088	BX950297	-6.77	9.13E-04
1089	BX950304	-3.13	6.22E-03
1090	BX950335	-4.44	2.49E-03
1091	BX950348	-4.91	4.60E-03
1092	BX950367	-3.14	4.91E-04
1093	BX950369	-2.07	4.02E-02
1094	BX950411	-6.92	2.06E-05
1095	BX950494	-5.10	3.24E-03
1096	BX950520	-3.73	5.37E-04
1097	BX950527	-6.97	1.52E-04
1098	BX950556	-3.58	5.02E-03
1099	BX950565	-4.59	2.35E-03
1100	BX950568	-4.22	1.03E-03
1101	BX950580	-1.56	1.69E-04
1102	BX950605	-8.39	7.81E-04
1103	BX950615	-1.86	8.51E-03
1104	BX950634	-7.22	3.61E-04
1105	BX950648	-6.46	5.50E-05
1106	BX950682	-4.15	7.06E-04
1107	BX950768	-4.14	1.42E-02
1108	BX950770	-4.82	4.67E-03
1109	BX950780	-6.37	3.13E-03
1110	BX950807	-1.32	1.11E-02
1111	BX950820	-6.19	2.26E-04
1112	BX950834	-8.00	5.57E-04
1113	BX950846	-1.94	5.79E-03
1114	BYSL	-1.12	1.38E-02
1115	BZRAP1	-2.64	3.14E-04
1116	BZW1	-4.99	7.86E-04
1117	BZW2	-6.60	5.37E-04
1118	C10H15orf40	-2.94	1.07E-03
1119	C10H15orf60	-3.61	8.29E-05
1120	C11H16orf70	-2.57	5.77E-03
1121	C11H16orf80	-4.84	1.37E-03
1122	C11H16orf87	-5.46	1.89E-04
1123	C11H19orf12	-2.98	1.55E-03
1124	C12H3orf14	-5.43	3.13E-04
1125	C12H3orf37	-2.98	3.34E-03
1126	C12H3orf67	-2.36	1.06E-02
1127	C13H5orf15	-5.14	5.35E-04
1128	C13H5orf25	-6.51	2.83E-04
1129	C13H5orf45	-5.07	7.56E-04
1130	C14H16orf42	-3.21	6.54E-03
1131	C14H16orf5	-4.21	1.14E-03
1132	C14H16orf59	-2.26	3.91E-03
1133	C14H16orf62	-4.57	3.29E-03

1134	C14H17orf103	-4.87	1.60E-04
1135	C14H7orf50	-1.57	1.11E-03
1136	C14H7orf62	-5.34	1.43E-03
1137	C14H8orf33	-4.40	8.08E-05
1138	C14orf104	-5.17	3.95E-04
1139	C15H12orf43	-3.84	1.68E-03
1140	C15H12orf49	-4.13	1.37E-03
1141	C15H12orf65	-4.63	5.32E-04
1142	C15H14orf166B	-3.50	2.84E-03
1143	C15H22orf36	-3.31	1.14E-02
1144	C17H9orf114	-5.05	9.59E-05
1145	C17H9orf16	-5.58	1.33E-04
1146	C17H9orf78	-4.73	7.03E-04
1147	C17H9orf9	-7.50	1.08E-04
1148	C17H9orf96	-6.87	2.39E-04
1149	C18H17orf67	-5.41	1.17E-03
1150	C18H17orf75	-2.89	1.34E-03
1151	C18H17orf80	-2.55	7.87E-04
1152	C19H17orf108	-2.38	1.47E-03
1153	C19H17orf63	-3.62	2.94E-03
1154	C19H17orf78	-8.49	1.13E-04
1155	C19H17orf85	-2.80	7.18E-04
1156	C1D	-3.01	5.12E-04
1157	C1GALT1	-4.57	3.44E-04
1158	C1GALT1C1	-2.07	1.51E-03
1159	C1H11orf54	-3.26	1.64E-04
1160	C1H11orf70	-7.11	7.06E-04
1161	C1H11orf73	-5.71	1.83E-04
1162	C1H12orf11	-5.50	3.48E-04
1163	C1H12orf23	-5.16	3.15E-04
1164	C1H12orf35	-2.56	1.20E-02
1165	C1H12orf4	-4.84	2.98E-05
1166	C1H12orf45	-2.73	9.85E-03
1167	C1H12orf5	-3.96	2.53E-05
1168	C1H12orf50	-3.05	2.14E-02
1169	C1H12orf57	-7.49	2.57E-04
1170	C1H12orf73	-2.24	5.68E-04
1171	C1H13orf15	-5.13	7.13E-04
1172	C1H1orf114	-2.38	2.22E-04
1173	C1H21orf33	-3.29	1.61E-03
1174	C1H21orf59	-3.89	4.80E-04
1175	C1H21orf91	-3.05	2.31E-04
1176	C1H22orf23	-6.52	1.73E-04
1177	C1H22orf28	-3.41	2.76E-03
1178	C1H22orf32	-7.09	5.59E-05
1179	C1H22orf33	-6.59	2.91E-04
1180	C1H2orf29	-5.94	4.65E-04
1181	C1H3orf15	-3.57	1.24E-03
1182	C1H3orf17	-2.18	1.58E-02
1183	C1H3orf38	-3.16	4.04E-04
1184	C1H7orf23	-3.19	2.13E-03
1185	C1H7orf55	-1.73	3.40E-02
1186	C1H7orf60	-2.70	3.32E-03
1187	C1HXorf22	-3.10	2.71E-04
1188	C1orf67	-3.85	1.45E-03
1189	C1QBP	-4.32	1.26E-05
1190	C1S	-2.05	2.80E-03
1191	C20H20orf111	-5.79	2.98E-04
1192	C20H20orf177	-1.40	1.23E-03
1193	C20H20orf195	-6.51	1.56E-04
1194	C20H20orf20	-6.17	4.57E-04
1195	C20H20orf24	-2.81	1.73E-04
1196	C20H20orf85	-7.45	5.46E-03

1197	C21H1orf158	-5.99	1.77E-03
1198	C21H1orf159	-3.73	9.14E-04
1199	C21H1orf174	-2.49	1.80E-03
1200	C21H1orf50	-4.89	2.29E-03
1201	C23H1orf109	-3.50	2.31E-04
1202	C23H1orf94	-6.10	3.26E-03
1203	C24H11orf1	-5.89	6.36E-04
1204	C24H11orf57	-3.16	5.90E-05
1205	C25H1orf43	-4.40	2.23E-04
1206	C26H1orf74	-2.06	1.08E-02
1207	C26H1orf88	-5.44	3.35E-04
1208	C26H6orf106	-3.21	1.24E-02
1209	C26H6orf130	-4.04	1.32E-03
1210	C27H17orf104	-1.46	3.91E-03
1211	C27H17orf105	-8.37	1.33E-04
1212	C28H19orf10	-3.91	6.20E-03
1213	C28H19orf44	-3.43	4.79E-06
1214	C28H19orf50	-5.82	2.70E-04
1215	C2CD5	-3.04	8.16E-04
1216	C2H18orf21	-3.86	1.12E-03
1217	C2H18orf55	-1.37	7.97E-02
1218	C2H18orf8	-4.27	1.73E-04
1219	C2H1orf35	-3.47	2.45E-03
1220	C2H3orf23	-2.16	1.42E-02
1221	C2H3orf75	-2.24	8.30E-03
1222	C2H6orf145	-1.24	1.65E-03
1223	C2H6orf62	-2.21	1.87E-02
1224	C2H7orf10	-2.86	2.99E-03
1225	C2H7orf25	-2.99	1.62E-03
1226	C2H7orf41	-4.76	2.84E-04
1227	C2H7orf46	-6.59	5.56E-04
1228	C2H7orf57	-6.21	8.79E-04
1229	C2H8orf37	-4.41	5.76E-04
1230	C2H8orf38	-4.45	9.23E-04
1231	C2H8orf45	-3.55	6.32E-04
1232	C2H8orf76	-1.35	1.10E-02
1233	C3H17orf59	-5.04	1.65E-04
1234	C3H1orf100	-6.69	5.61E-04
1235	C3H1orf101	-2.23	1.06E-03
1236	C3H1orf131	-4.16	2.09E-04
1237	C3H20orf3	-4.84	6.11E-04
1238	C3H20orf7	-4.87	4.36E-04
1239	C3H20orf72	-6.40	2.17E-05
1240	C3H2orf18	-2.93	2.76E-04
1241	C3H2orf56	-3.04	1.05E-02
1242	C3H6orf115	-4.71	4.76E-03
1243	C3H6orf120	-3.57	2.22E-04
1244	C3H6orf163	-8.03	6.54E-04
1245	C3H6orf165	-4.73	3.39E-03
1246	C3H6orf186	-1.32	1.14E-03
1247	C3H6orf192	-4.13	4.66E-03
1248	C3H6orf203	-4.87	4.46E-04
1249	C3H6orf211	-5.76	2.72E-04
1250	C3H6orf57	-5.07	2.96E-03
1251	C3H6orf70	-2.13	1.15E-04
1252	C3H8orf42	-2.63	5.69E-04
1253	C4	-3.39	1.92E-03
1254	C4H20orf194	-1.30	4.36E-03
1255	C4H4orf17	-5.13	4.28E-04
1256	C4H4orf21	-4.29	7.00E-04
1257	C4H4orf27	-5.66	4.28E-05
1258	C4H4orf29	-1.83	6.23E-03
1259	C4H4orf33	-3.07	5.30E-03

1260	C4H4orf34	-3.81	1.35E-04
1261	C4H4orf45	-6.85	3.20E-04
1262	C4H4orf47	-9.87	2.19E-03
1263	C4H4orf52	-5.28	2.67E-04
1264	C4H8orf40	-5.11	2.53E-04
1265	C4HXorf56	-3.59	1.36E-05
1266	C5	-2.70	3.49E-04
1267	C5H11orf10	-6.68	1.77E-04
1268	C5H11orf58	-6.91	3.80E-04
1269	C5H11orf74	-8.22	8.23E-05
1270	C5H14orf1	-4.61	6.91E-04
1271	C5H14orf101	-3.27	1.47E-03
1272	C5H14orf129	-1.25	1.18E-02
1273	C5H14orf149	-2.14	4.85E-03
1274	C5H14orf166	-7.61	3.60E-05
1275	C5H14orf166B	-1.70	1.99E-02
1276	C5H14orf169	-2.48	3.72E-02
1277	C5H14orf38	-3.70	1.73E-03
1278	C5H14orf39	-5.61	6.05E-04
1279	C5H14orf49	-3.80	1.91E-03
1280	C5H15orf23	-4.88	4.31E-04
1281	C5H15orf24	-3.42	9.19E-04
1282	C5H15orf41	-1.32	1.60E-02
1283	C6H10orf107	-6.73	4.23E-04
1284	C6H10orf118	-1.10	6.26E-03
1285	C6H10orf32	-4.05	3.94E-04
1286	C6H10orf46	-4.41	1.15E-03
1287	C6H10orf57	-5.25	8.17E-04
1288	C6H10orf76	-2.22	3.71E-03
1289	C6H10orf88	-5.15	1.20E-04
1290	C7	-3.26	1.12E-03
1291	C7H2orf47	-3.31	1.61E-03
1292	C7H2orf66	-3.44	2.02E-03
1293	C7H2orf69	-3.23	3.81E-03
1294	C8G	-3.17	2.81E-03
1295	C8H1orf111	-5.81	1.13E-03
1296	C8H1orf123	-6.68	1.50E-04
1297	C8H1orf146	-3.25	6.00E-03
1298	C8H1orf173	-2.16	2.90E-03
1299	C8H1orf21	-1.84	1.13E-03
1300	C8H1orf228	-1.22	6.43E-02
1301	C8H1orf27	-1.55	1.57E-02
1302	C8H1orf52	-4.27	9.92E-05
1303	C9H21orf2	-4.95	7.29E-04
1304	CA2	-4.14	1.73E-03
1305	CA3	-3.33	2.07E-02
1306	CAAP1	-5.27	4.51E-04
1307	CAB39L	-2.88	1.07E-03
1308	CABIN1	-2.20	7.18E-04
1309	CABP1	-3.09	4.95E-04
1310	CABYR	-4.48	2.40E-03
1311	CACHD1	-1.21	1.03E-02
1312	CACNA2D1	-3.08	2.59E-03
1313	CACYBP	-5.53	8.69E-05
1314	CADM1	-2.13	7.18E-03
1315	CALCOCO2	-3.16	3.00E-03
1316	CALD1	-3.34	2.24E-03
1317	CALM	-6.92	3.40E-04
1318	CALM1	-5.58	3.41E-04
1319	CALR3	-7.28	1.77E-03
1320	CAMK1G	-1.10	3.53E-02
1321	CAMK2D	-1.60	2.65E-03
1322	CAMK2G	-2.38	1.31E-03

1323	CAMK4	-2.40	9.19E-03
1324	CAMKK1	-6.34	2.56E-04
1325	CAMKMT	-3.33	9.72E-03
1326	CAMLG	-3.02	1.52E-03
1327	CAMSAP1	-3.24	1.32E-03
1328	CAND1	-5.75	1.59E-04
1329	CANX	-3.61	1.65E-04
1330	CAPN10	-2.05	1.26E-02
1331	CAPN2	-1.28	1.28E-02
1332	CAPN6	-1.41	1.49E-02
1333	CAPRIN1	-3.67	1.32E-03
1334	CAPZA1	-4.77	1.13E-03
1335	CAPZA2	-3.62	4.99E-03
1336	CAPZA3	-7.91	5.59E-05
1337	CAPZB	-7.08	1.24E-04
1338	CARD11	-2.13	4.30E-04
1339	CARD9	-2.23	9.43E-03
1340	CARKD	-4.86	4.71E-04
1341	CARS	-4.55	9.55E-05
1342	CARS2	-3.31	3.03E-04
1343	CASC1	-3.37	4.95E-03
1344	CASC3	-3.21	7.54E-04
1345	CASC4	-6.04	3.31E-05
1346	CASK	-3.71	6.20E-04
1347	CASP1	-5.13	1.34E-03
1348	CASP18	-2.14	3.94E-04
1349	CASP2	-2.85	9.47E-04
1350	CASP3	-1.44	5.34E-02
1351	CASP6	-1.31	2.79E-02
1352	CASP8	-1.45	1.06E-02
1353	CASP9	-3.06	1.08E-03
1354	CAST	-1.22	4.34E-02
1355	CAV2	-2.99	2.99E-03
1356	CBFA2T2	-2.12	4.55E-03
1357	CBFB	-2.60	6.09E-04
1358	CBLL1	-2.39	1.76E-03
1359	CBLN1	-3.76	3.47E-03
1360	CBR1	-2.15	9.48E-05
1361	CBR4	-2.77	2.42E-04
1362	CB5	-3.16	1.66E-03
1363	CBWD1	-3.63	2.28E-03
1364	CBX1	-2.69	8.84E-03
1365	CBX3	-5.82	5.37E-05
1366	CBY1	-6.98	1.48E-04
1367	CC2D1B	-1.85	1.46E-03
1368	CC2D2A	-3.64	1.57E-03
1369	CCAR1	-3.68	1.77E-03
1370	CCBL2	-3.30	1.78E-04
1371	CCBP2	-1.40	1.78E-02
1372	CCDC101	-3.99	6.88E-04
1373	CCDC103	-6.85	2.50E-03
1374	CCDC104	-6.43	3.98E-04
1375	CCDC107	-7.24	3.75E-04
1376	CCDC109B	-2.76	1.70E-03
1377	CCDC111	-3.60	1.99E-03
1378	CCDC112	-3.55	7.60E-04
1379	CCDC12	-2.69	5.71E-03
1380	CCDC121	-5.53	5.18E-04
1381	CCDC126	-2.06	1.57E-03
1382	CCDC13	-5.07	3.53E-04
1383	CCDC132	-2.04	9.98E-03
1384	CCDC134	-1.87	9.38E-04
1385	CCDC14	-4.01	1.94E-04

1386	CCDC146	-4.63	2.75E-03
1387	CCDC147	-4.35	1.45E-03
1388	CCDC148	-5.77	1.83E-04
1389	CCDC15	-6.12	5.17E-04
1390	CCDC167	-3.82	5.93E-03
1391	CCDC17	-1.64	5.93E-04
1392	CCDC173	-3.46	7.88E-03
1393	CCDC174	-3.02	3.23E-03
1394	CCDC176	-5.55	1.04E-03
1395	CCDC18	-2.64	2.37E-03
1396	CCDC19	-7.72	4.67E-04
1397	CCDC25	-4.42	1.06E-03
1398	CCDC27	-5.81	5.99E-05
1399	CCDC28A	-4.13	3.34E-04
1400	CCDC34	-5.03	4.49E-04
1401	CCDC39	-5.32	1.04E-04
1402	CCDC40	-8.09	4.46E-04
1403	CCDC41	-3.29	7.49E-04
1404	CCDC42	-4.60	6.73E-03
1405	CCDC43	-3.09	5.65E-04
1406	CCDC47	-2.40	8.40E-03
1407	CCDC53	-1.66	5.19E-04
1408	CCDC56	-5.25	6.89E-06
1409	CCDC58	-1.26	4.12E-04
1410	CCDC59	-4.80	4.13E-04
1411	CCDC6	-2.39	2.55E-03
1412	CCDC61	-3.95	1.04E-03
1413	CCDC63	-2.65	4.34E-04
1414	CCDC66	-1.68	2.18E-03
1415	CCDC72	-8.51	5.78E-06
1416	CCDC75	-4.72	1.45E-03
1417	CCDC76	-5.43	1.16E-03
1418	CCDC77	-5.20	4.20E-03
1419	CCDC79	-4.15	7.08E-04
1420	CCDC80	-1.94	9.07E-04
1421	CCDC82	-4.07	4.75E-03
1422	CCDC83	-5.83	1.44E-04
1423	CCDC84	-3.10	1.74E-02
1424	CCDC86	-3.99	1.32E-03
1425	CCDC88C	-2.12	6.64E-03
1426	CCDC89	-5.12	1.93E-04
1427	CCDC92	-4.64	1.01E-03
1428	CCDC93	-3.58	4.47E-04
1429	CCDC99	-2.84	1.63E-02
1430	CKK	-6.17	2.23E-04
1431	CCL20	-2.22	3.67E-03
1432	CCM2	-1.98	1.08E-03
1433	CCNA1	-8.05	1.38E-03
1434	CCNA2	-3.16	6.09E-03
1435	CCNB2	-5.18	9.26E-04
1436	CCNB3	-1.11	3.02E-03
1437	CCNC	-1.88	9.73E-04
1438	CCND1	-2.57	1.98E-02
1439	CCNDBP1	-4.11	2.45E-04
1440	CCNG1	-3.67	1.46E-02
1441	CCNH	-8.22	1.20E-04
1442	CCNI	-5.57	1.41E-03
1443	CCNK	-6.69	9.33E-04
1444	CCNL1	-4.02	3.25E-04
1445	CCNL2	-3.03	1.54E-03
1446	CCNYL1	-3.70	4.22E-04
1447	CCP110	-2.89	2.78E-03
1448	CCPG1	-2.88	2.42E-04

1449	CCT2	-6.41	5.98E-05
1450	CCT4	-7.31	5.17E-05
1451	CCT5	-4.92	2.42E-03
1452	CCT6A	-6.87	1.25E-04
1453	CCT7	-7.09	2.58E-04
1454	CCT8	-6.88	4.12E-04
1455	CCZ1	-2.62	2.16E-04
1456	CD151	-3.46	3.19E-04
1457	CD200	-1.61	6.61E-03
1458	CD24	-2.03	1.93E-02
1459	CD247	-1.31	1.07E-02
1460	CD2AP	-4.51	6.76E-04
1461	CD3D	-3.45	1.52E-04
1462	CD47	-2.47	1.61E-02
1463	CD729621	-3.40	1.62E-04
1464	CD736984	-5.61	4.00E-03
1465	CD74	-4.56	3.58E-03
1466	CD740706	-1.83	1.57E-02
1467	CD763379	-2.47	8.51E-05
1468	CD763555	-1.86	6.85E-02
1469	CD765291	-4.59	4.13E-03
1470	CD81	-2.11	2.24E-02
1471	CD82	-3.51	1.97E-02
1472	CD9	-2.17	5.08E-03
1473	CD99	-4.16	4.64E-03
1474	CDA	-2.90	4.21E-03
1475	CDADC1	-3.77	1.61E-03
1476	CDC14B	-4.53	4.59E-05
1477	CDC20	-6.53	1.42E-05
1478	CDC23	-3.89	1.23E-03
1479	CDC25A	-3.87	1.11E-04
1480	CDC26	-4.86	5.23E-03
1481	CDC27	-5.58	7.28E-06
1482	CDC2L1	-3.09	3.08E-04
1483	CDC34	-1.11	8.90E-03
1484	CDC37	-3.85	7.41E-04
1485	CDC37L1	-6.09	4.05E-04
1486	CDC40	-6.08	9.51E-04
1487	CDC42	-6.74	2.82E-06
1488	CDC42BPB	-1.72	6.09E-03
1489	CDC42SE1	-7.10	5.87E-04
1490	CDC45	-1.56	1.29E-03
1491	CDC5L	-6.18	1.44E-03
1492	CDC7	-1.38	1.05E-02
1493	CDCA2	-4.56	4.77E-04
1494	CDCA4	-5.68	8.18E-04
1495	CDCA7	-2.05	1.99E-03
1496	CDCA7L	-3.46	1.06E-03
1497	CDCA8	-3.02	7.45E-04
1498	CDH1-A	-1.84	1.06E-02
1499	CDH2	-1.57	3.06E-02
1500	CDH5	-2.36	5.39E-03
1501	CDK1	-5.05	5.73E-05
1502	CDK10	-4.21	5.34E-04
1503	CDK13	-4.32	3.83E-04
1504	CDK17	-2.26	2.48E-03
1505	CDK19	-3.07	9.21E-03
1506	CDK2AP1	-1.99	8.33E-04
1507	CDK3	-3.83	3.15E-03
1508	CDK9	-2.61	7.60E-04
1509	CDKAL1	-3.16	3.06E-04
1510	CDKL1	-3.03	4.39E-04
1511	CDKL2	-4.42	1.02E-03

1512	CDKN1B	-4.46	2.36E-04
1513	CDKN2A	-2.56	5.54E-04
1514	CDKN3	-3.64	4.01E-03
1515	CDO1	-2.97	3.24E-04
1516	CDR2	-1.24	1.67E-02
1517	CDS1	-5.93	5.33E-04
1518	CDS2	-2.31	2.32E-03
1519	CDV3	-5.18	6.83E-05
1520	CEBPG	-2.80	1.72E-03
1521	CEBPZ	-4.51	3.70E-04
1522	CENPC1	-6.93	1.63E-04
1523	CENPF	-2.72	1.80E-03
1524	CENPH	-4.92	1.12E-03
1525	CENPK	-4.39	1.36E-04
1526	CENPL	-3.85	9.16E-04
1527	CENPM	-4.95	8.63E-05
1528	CENPN	-4.24	2.08E-03
1529	CENPP	-4.02	6.69E-04
1530	CENPQ	-5.96	6.00E-04
1531	CENPT	-6.37	1.75E-04
1532	CENPV	-2.37	2.03E-02
1533	CENPW	-5.53	4.76E-03
1534	CEP104	-6.31	1.88E-04
1535	CEP112	-3.98	4.27E-04
1536	CEP120	-5.47	1.12E-03
1537	CEP135	-4.28	4.53E-03
1538	CEP170	-5.79	7.67E-04
1539	CEP19	-6.22	6.75E-04
1540	CEP192	-5.23	2.32E-05
1541	CEP290	-5.34	3.97E-05
1542	CEP350	-3.17	1.99E-04
1543	CEP44	-6.32	6.31E-05
1544	CEP55	-5.27	5.58E-04
1545	CEP57	-3.26	2.79E-03
1546	CEP63	-2.89	3.29E-04
1547	CEP70	-5.27	3.96E-03
1548	CEP85	-2.23	2.87E-03
1549	CEP89	-4.76	1.15E-03
1550	CEP95	-1.55	5.70E-03
1551	CEP97	-2.34	4.56E-04
1552	CERK	-4.75	1.02E-04
1553	CERS1	-2.02	7.76E-03
1554	CERS5	-1.28	1.23E-03
1555	CERS6	-2.04	2.05E-03
1556	CETN1	-6.15	1.16E-04
1557	CETN2	-5.41	1.48E-04
1558	CETN3	-7.44	1.73E-05
1559	CF249937	-2.63	2.15E-03
1560	CF254431	-2.46	2.46E-03
1561	CF256373	-2.61	2.20E-03
1562	CFC1B	-3.77	1.06E-03
1563	CFDP1	-1.55	1.09E-02
1564	CFI	-1.79	1.08E-02
1565	CFL2	-2.46	1.74E-02
1566	CFLAR	-1.45	1.39E-02
1567	CGA	-2.15	2.47E-03
1568	CGNL1	-2.80	4.45E-03
1569	CGRRF1	-6.80	2.44E-05
1570	CHAC2	-1.30	5.13E-04
1571	CHAF1A	-3.74	2.74E-04
1572	CHAF1B	-4.01	3.41E-04
1573	CHCHD1	-3.38	8.01E-04
1574	CHCHD2	-5.13	9.28E-03

1575	CHCHD3	-3.81	1.03E-04
1576	CHCHD4	-3.43	5.90E-04
1577	CHCHD5	-1.28	2.67E-02
1578	CHCHD6	-5.33	4.50E-04
1579	CHD1	-4.78	3.14E-05
1580	CHD1L	-6.43	4.18E-04
1581	CHD7	-1.65	8.13E-03
1582	CHD9	-1.89	2.60E-03
1583	CHERP	-3.96	1.16E-04
1584	CHGB	-2.50	2.83E-04
1585	CHIC2	-3.29	2.41E-03
1586	CHID1	-4.82	3.82E-04
1587	CHMP1A	-3.76	5.29E-03
1588	CHMP1B	-2.33	1.55E-03
1589	CHMP2A	-2.46	1.27E-03
1590	CHMP2B	-2.45	1.38E-02
1591	CHMP4B	-3.98	6.13E-03
1592	CHMP5	-5.42	1.87E-03
1593	CHMP6	-3.33	4.50E-05
1594	CHMP7	-3.42	1.94E-04
1595	CHN1	-3.50	1.03E-04
1596	CHORDC1	-4.29	1.62E-03
1597	CHP1	-5.95	3.53E-04
1598	CHPT1	-4.48	4.89E-04
1599	CHRA1	-5.50	4.47E-04
1600	CHRD1	-3.41	5.18E-03
1601	CHST15	-3.03	2.66E-03
1602	CHST6	-1.95	4.05E-03
1603	CHSY1	-2.27	4.26E-03
1604	CHTOP	-1.69	2.34E-03
1605	CHUK	-3.13	1.16E-03
1606	CHURC1	-5.84	2.72E-04
1607	CIAPIN1	-5.30	3.59E-05
1608	CIB1	-1.45	5.56E-04
1609	CINP	-3.46	1.82E-04
1610	CIR1	-4.99	1.84E-04
1611	CIRBP	-4.92	1.45E-05
1612	CISD1	-2.38	6.27E-03
1613	CISD2	-3.45	3.79E-04
1614	CISH	-1.59	1.40E-02
1615	CITED4	-2.41	4.61E-03
1616	CIZ1	-2.42	7.31E-05
1617	CK611406	-2.91	8.52E-04
1618	CK612070	-2.47	1.47E-02
1619	CK613298	-2.02	6.58E-03
1620	CK986952	-2.23	2.82E-03
1621	CKAP2	-6.02	3.25E-04
1622	CKAP2L	-1.74	3.21E-02
1623	CKAP4	-5.30	1.34E-05
1624	CKAP5	-2.10	4.77E-02
1625	CKB	-7.81	6.59E-03
1626	CKMT1A	-2.43	4.53E-03
1627	CKMT2	-6.61	4.54E-04
1628	CKR2	-6.53	5.81E-05
1629	CKS1B	-6.08	1.51E-04
1630	CKS2	-8.36	1.11E-03
1631	CLCN3	-1.27	1.01E-02
1632	CLCN7	-3.78	5.28E-04
1633	CLCNKB	-1.95	4.51E-02
1634	CLDN1	-2.46	3.50E-03
1635	CLDN15	-2.80	1.35E-02
1636	CLDN1	-3.29	7.35E-05
1637	CLEC16A	-1.39	1.83E-02

1638	CLEC3B	-5.84	3.01E-03
1639	CLGN	-8.13	6.50E-05
1640	CLIC4	-7.65	7.95E-05
1641	CLINT1	-1.98	3.17E-03
1642	CLIP1	-2.44	7.87E-03
1643	CLK1	-5.11	4.52E-03
1644	CLK2	-1.47	4.30E-03
1645	CLK3	-2.21	5.62E-03
1646	CLK4	-5.28	6.28E-05
1647	CLMN	-6.66	3.62E-04
1648	CLMP	-1.85	6.93E-02
1649	CLN8	-1.20	1.88E-03
1650	CLNS1A	-6.74	2.70E-06
1651	CLP1	-2.97	1.66E-04
1652	CLPTM1L	-3.60	3.69E-04
1653	CLPX	-2.56	9.22E-04
1654	CLSPN	-1.15	1.45E-03
1655	CLSTN1	-2.69	9.52E-03
1656	CLTA	-6.95	3.14E-05
1657	CLTB	-3.90	1.35E-04
1658	CLTC	-3.39	3.93E-05
1659	CLTCL1	-2.51	4.67E-02
1660	CLU	-2.80	1.12E-02
1661	CMC1	-4.08	2.40E-04
1662	CMC2	-3.96	4.52E-04
1663	CMIP	-2.33	4.44E-03
1664	CMPK1	-3.59	6.52E-04
1665	CMSS1	-3.66	5.24E-04
1666	CMTM3	-1.95	6.73E-04
1667	CN218106	-4.20	1.24E-03
1668	CN218725	-1.43	4.67E-02
1669	CN225732	-3.27	1.02E-03
1670	CN227175	-6.02	2.22E-03
1671	CN228445	-3.59	2.76E-03
1672	CN232510	-1.67	6.18E-03
1673	CN236467	-3.86	9.69E-04
1674	CN236670	-4.11	2.48E-03
1675	CNBP	-6.48	7.48E-05
1676	CNDP1	-4.89	4.62E-04
1677	CNDP2	-4.56	1.87E-04
1678	CNIH	-2.11	1.79E-02
1679	CNIH4	-5.71	5.10E-05
1680	CNN3	-1.49	1.61E-02
1681	CNNM2	-1.49	1.72E-03
1682	CNOT1	-1.58	4.25E-03
1683	CNOT10	-3.26	8.33E-04
1684	CNOT2	-2.40	4.55E-03
1685	CNOT4	-2.35	1.06E-03
1686	CNOT7	-2.01	1.00E-02
1687	CNOT8	-4.33	1.87E-03
1688	CNP	-1.47	4.74E-04
1689	CNPPD1	-4.06	2.00E-03
1690	CNST	-4.62	4.35E-03
1691	CNTRL	-4.40	2.87E-03
1692	CO420398	-4.55	1.51E-03
1693	CO503234	-2.82	1.46E-03
1694	CO635406	-1.61	2.17E-02
1695	CO635609	-7.38	3.77E-03
1696	CO635655	-6.64	2.98E-04
1697	CO635671	-4.58	1.72E-04
1698	CO635742	-8.31	1.04E-03
1699	CO759238	-1.90	4.78E-04
1700	CO759258	-3.20	1.75E-05

1701	CO759280	-4.55	1.09E-03
1702	CO759332	-4.31	2.02E-04
1703	CO759530	-4.27	1.99E-04
1704	CO759556	-2.87	2.82E-04
1705	CO760012	-5.07	1.31E-03
1706	CO760221	-3.82	2.16E-03
1707	CO760951	-1.87	1.52E-03
1708	CO760968	-2.61	3.13E-03
1709	CO761064	-1.33	1.03E-02
1710	CO761439	-2.29	5.23E-03
1711	CO761921	-4.96	7.05E-04
1712	CO762094	-4.31	1.46E-04
1713	CO762098	-1.83	4.35E-03
1714	CO762224	-3.46	1.30E-03
1715	CO762861	-3.20	2.02E-02
1716	CO763026	-3.78	1.11E-03
1717	CO763237	-3.20	1.54E-04
1718	CO763508	-2.46	1.51E-02
1719	CO763836	-5.28	6.49E-04
1720	CO764067	-8.41	7.00E-03
1721	CO764213	-3.88	5.13E-04
1722	CO765929	-1.91	5.29E-03
1723	CO766042	-1.50	5.17E-03
1724	CO766552	-1.80	1.34E-03
1725	CO766638	-1.18	1.17E-03
1726	CO766877	-2.21	6.35E-03
1727	CO767029	-2.43	3.04E-04
1728	CO767272	-1.60	7.27E-03
1729	CO767662	-1.14	7.97E-03
1730	CO767799	-4.48	4.79E-04
1731	CO768102	-2.10	9.79E-03
1732	CO768125	-1.78	1.53E-03
1733	CO768202	-4.86	3.41E-04
1734	CO768499	-2.77	1.08E-03
1735	CO770066	-4.05	1.89E-04
1736	CO770555	-3.63	3.17E-03
1737	CO770638	-8.85	8.41E-06
1738	CO770890	-3.88	5.19E-04
1739	CO771126	-5.37	7.91E-04
1740	CO771485	-4.79	3.28E-03
1741	CO771662	-2.36	2.64E-03
1742	CO772032	-5.37	4.02E-03
1743	CO772425	-6.72	6.42E-04
1744	CO773030	-4.06	2.92E-03
1745	CO773370	-5.82	1.20E-03
1746	COA5	-3.69	8.12E-05
1747	COA6	-4.05	1.25E-03
1748	COBL	-3.55	1.60E-03
1749	COBLL1	-1.71	5.05E-03
1750	COBRA1	-3.75	5.30E-03
1751	COG1	-5.00	2.63E-04
1752	COG2	-5.03	2.78E-04
1753	COG4	-1.48	4.41E-03
1754	COG5	-1.31	1.73E-03
1755	COG6	-2.69	5.82E-05
1756	COG7	-5.13	2.18E-04
1757	COIL	-5.80	2.62E-04
1758	COL18A1	-4.80	6.50E-04
1759	COL20A1	-1.48	4.89E-02
1760	COL3A1	-2.68	5.19E-04
1761	COL4A1	-1.37	3.28E-02
1762	COL4A3BP	-4.24	3.37E-03
1763	COL6A1	-2.04	3.75E-03

1764	COL9A1	-2.03	1.52E-02
1765	COMMD1	-4.46	3.86E-04
1766	COMMD10	-4.43	4.54E-04
1767	COMMD2	-4.55	8.83E-05
1768	COMMD4	-2.59	1.66E-03
1769	COMMD6	-4.45	7.66E-04
1770	COMMD7	-5.98	3.57E-05
1771	COMMD8	-4.97	2.19E-03
1772	COPA	-3.93	6.20E-04
1773	COPB1	-5.93	5.62E-05
1774	COPB2	-6.60	6.89E-06
1775	COPE	-6.26	6.60E-04
1776	COPG	-2.18	1.11E-02
1777	COPG2	-4.55	2.40E-04
1778	COPS2	-4.44	1.14E-03
1779	COPS3	-8.41	2.05E-04
1780	COPS4	-6.48	4.78E-04
1781	COPS5	-7.18	2.73E-04
1782	COPS7A	-4.15	5.81E-05
1783	COPS7B	-7.91	5.29E-04
1784	COPS8	-6.57	6.42E-06
1785	COQ10A	-1.24	6.16E-04
1786	COQ2	-7.56	1.66E-04
1787	COQ3	-3.80	1.83E-03
1788	COQ5	-5.34	6.03E-06
1789	COQ6	-2.30	4.10E-02
1790	COQ7	-7.99	2.44E-05
1791	COQ9	-4.03	9.82E-05
1792	COX1	-8.10	2.75E-03
1793	COX10	-2.91	7.41E-04
1794	COX11	-4.05	2.53E-03
1795	COX15	-1.62	3.07E-04
1796	COX17	-6.43	1.38E-04
1797	COX18	-2.70	6.65E-03
1798	COX19	-5.92	4.64E-05
1799	COX2	-7.79	6.00E-04
1800	COX20	-2.87	8.87E-05
1801	COX3	-7.32	1.66E-03
1802	COX411	-8.52	1.02E-04
1803	COX5A	-7.67	1.21E-05
1804	COX6A1	-7.49	7.95E-06
1805	COX6C	-6.03	3.42E-05
1806	COX7A2	-6.11	2.36E-04
1807	COX7A2L	-7.60	4.58E-04
1808	COX7C	-6.00	1.03E-03
1809	COX8A	-5.73	2.52E-03
1810	CPA2	-2.77	1.31E-02
1811	CPEB2	-4.17	6.11E-04
1812	CPEB3	-2.43	3.59E-03
1813	CPNE1	-1.93	2.16E-03
1814	CPNE3	-2.30	2.33E-03
1815	CPNE8	-3.07	3.46E-03
1816	CPOX	-3.55	2.13E-03
1817	CPQ	-1.40	5.96E-03
1818	CPSF2	-2.76	3.37E-04
1819	CPSF3	-4.54	5.80E-04
1820	CPSF3L	-8.55	3.00E-05
1821	CPSF4	-3.56	4.60E-04
1822	CPSF6	-4.67	3.92E-04
1823	CPT1A	-3.43	1.14E-04
1824	CPT2	-4.72	2.08E-03
1825	CR338694	-5.28	2.07E-04
1826	CR338731	-4.02	2.63E-03

1827	CR338733	-4.95	6.24E-03
1828	CR338740	-4.32	1.90E-03
1829	CR338741	-1.17	2.85E-03
1830	CR338763	-6.97	1.09E-03
1831	CR338764	-2.29	8.88E-03
1832	CR338780	-5.39	1.09E-03
1833	CR338781	-6.87	1.08E-03
1834	CR338807	-2.05	3.16E-03
1835	CR338818	-1.29	6.47E-02
1836	CR338819	-2.02	3.83E-03
1837	CR338837	-4.17	2.38E-04
1838	CR338838	-2.09	5.71E-03
1839	CR338843	-3.72	5.71E-03
1840	CR338869	-3.01	4.36E-03
1841	CR338874	-2.89	7.80E-03
1842	CR338900	-3.20	1.61E-03
1843	CR338915	-2.05	1.81E-03
1844	CR338916	-2.44	2.46E-03
1845	CR338923	-2.16	5.48E-03
1846	CR338928	-4.00	9.29E-04
1847	CR338941	-2.21	1.55E-02
1848	CR338943	-1.35	3.22E-03
1849	CR338946	-1.28	2.07E-03
1850	CR338956	-3.65	1.41E-03
1851	CR339016	-3.95	2.66E-04
1852	CR352345	-5.29	6.55E-05
1853	CR352346	-2.11	7.83E-03
1854	CR352357	-4.47	2.43E-05
1855	CR352359	-1.34	1.66E-02
1856	CR352361	-2.06	9.73E-02
1857	CR352363	-6.12	1.34E-03
1858	CR352369	-2.21	4.66E-03
1859	CR352370	-3.27	1.32E-03
1860	CR352374	-2.01	1.43E-02
1861	CR352376	-2.96	1.33E-03
1862	CR352380	-1.80	5.10E-02
1863	CR352381	-1.89	5.38E-03
1864	CR352385	-1.63	1.63E-02
1865	CR352388	-3.03	7.42E-03
1866	CR352393	-1.97	7.75E-04
1867	CR352404	-4.56	3.25E-04
1868	CR352409	-2.89	3.48E-03
1869	CR352415	-1.86	1.09E-03
1870	CR352419	-3.87	5.53E-03
1871	CR352432	-3.76	5.38E-03
1872	CR352433	-3.69	7.99E-03
1873	CR352434	-7.28	5.55E-04
1874	CR352441	-2.97	1.61E-04
1875	CR352447	-1.09	7.09E-03
1876	CR352450	-1.88	2.56E-02
1877	CR352453	-1.10	1.71E-02
1878	CR352457	-1.92	1.14E-02
1879	CR352551	-1.93	1.47E-02
1880	CR352562	-2.08	3.39E-04
1881	CR352573	-5.36	3.31E-04
1882	CR352593	-1.47	9.06E-03
1883	CR352594	-7.83	5.46E-04
1884	CR352615	-3.93	7.39E-04
1885	CR352635	-3.53	8.67E-04
1886	CR352638	-2.70	4.06E-04
1887	CR352641	-1.11	7.49E-03
1888	CR352645	-2.29	1.79E-04
1889	CR352647	-3.42	2.17E-03

1890	CR352651	-2.23	6.49E-03
1891	CR352656	-1.20	9.59E-03
1892	CR352689	-1.51	3.40E-02
1893	CR352690	-6.84	1.70E-06
1894	CR352708	-1.96	1.80E-02
1895	CR352717	-2.39	6.37E-02
1896	CR352728	-2.66	4.84E-04
1897	CR352729	-3.33	1.66E-03
1898	CR352731	-1.39	5.59E-02
1899	CR352732	-1.48	1.39E-03
1900	CR352739	-5.90	4.53E-05
1901	CR352744	-3.80	2.14E-02
1902	CR352747	-6.32	8.68E-04
1903	CR352749	-5.88	4.30E-04
1904	CR352764	-4.86	8.64E-04
1905	CR352768	-4.36	1.53E-03
1906	CR352781	-2.13	2.13E-03
1907	CR352790	-5.12	1.34E-03
1908	CR352799	-3.90	5.50E-04
1909	CR352803	-1.97	3.10E-03
1910	CR352805	-4.30	2.72E-02
1911	CR352811	-1.28	2.89E-02
1912	CR352814	-4.50	9.95E-04
1913	CR352819	-2.28	1.41E-02
1914	CR352822	-4.07	2.32E-03
1915	CR352824	-7.01	4.89E-03
1916	CR352826	-2.99	4.43E-03
1917	CR352833	-2.80	6.92E-02
1918	CR352842	-3.28	1.74E-03
1919	CR352844	-3.18	3.94E-03
1920	CR352850	-1.54	8.73E-03
1921	CR352870	-5.41	2.26E-03
1922	CR352873	-2.97	8.60E-03
1923	CR352877	-3.94	1.33E-03
1924	CR352882	-4.30	1.94E-04
1925	CR352885	-3.78	5.20E-03
1926	CR352886	-5.45	1.11E-03
1927	CR352893	-1.84	7.17E-03
1928	CR352895	-6.06	2.29E-04
1929	CR352900	-6.79	1.57E-04
1930	CR352901	-2.58	5.58E-03
1931	CR352914	-4.96	8.42E-04
1932	CR352918	-3.30	3.69E-04
1933	CR352925	-4.45	5.37E-04
1934	CR352932	-4.01	3.54E-03
1935	CR352938	-1.97	3.76E-02
1936	CR352947	-1.44	5.97E-03
1937	CR352963	-2.01	1.53E-02
1938	CR352967	-4.93	7.84E-05
1939	CR352976	-4.15	1.75E-03
1940	CR352998	-1.56	1.64E-03
1941	CR353000	-1.73	2.50E-02
1942	CR353001	-4.30	1.94E-04
1943	CR353007	-2.11	1.33E-03
1944	CR353025	-3.99	5.13E-04
1945	CR353036	-3.64	3.21E-04
1946	CR353043	-2.01	1.63E-02
1947	CR353065	-3.96	1.51E-03
1948	CR353068	-5.17	7.54E-04
1949	CR353086	-2.87	2.04E-02
1950	CR353135	-3.82	1.58E-02
1951	CR353144	-2.26	7.40E-03
1952	CR353151	-2.29	1.03E-02

1953	CR353152	-3.39	1.47E-03
1954	CR353157	-3.44	4.80E-03
1955	CR353160	-3.27	3.92E-03
1956	CR353168	-2.57	1.52E-02
1957	CR353171	-2.87	3.23E-03
1958	CR353181	-1.15	3.45E-04
1959	CR353182	-2.14	2.59E-02
1960	CR353186	-4.90	3.52E-02
1961	CR353188	-4.40	3.22E-03
1962	CR353200	-4.28	2.11E-04
1963	CR353203	-4.08	1.22E-03
1964	CR353208	-1.42	1.53E-02
1965	CR353214	-1.40	2.21E-02
1966	CR353216	-5.07	4.27E-04
1967	CR353219	-6.04	5.62E-04
1968	CR353242	-3.07	1.61E-03
1969	CR353246	-1.71	5.47E-03
1970	CR353249	-2.32	1.08E-02
1971	CR353256	-3.75	1.40E-03
1972	CR353257	-4.24	1.31E-03
1973	CR353265	-5.37	1.39E-03
1974	CR353281	-3.16	8.08E-03
1975	CR353285	-1.13	9.15E-03
1976	CR353290	-3.71	2.04E-03
1977	CR353308	-3.47	9.10E-04
1978	CR353350	-8.31	6.62E-05
1979	CR353362	-4.33	2.50E-03
1980	CR353393	-1.77	1.77E-02
1981	CR353397	-3.73	9.84E-04
1982	CR353398	-5.02	4.33E-04
1983	CR353401	-2.70	3.52E-03
1984	CR353411	-3.21	4.17E-03
1985	CR353414	-2.73	1.49E-02
1986	CR353421	-2.02	9.19E-03
1987	CR353426	-3.39	3.05E-04
1988	CR353427	-4.08	6.17E-04
1989	CR353434	-4.30	9.02E-04
1990	CR353436	-1.28	6.94E-03
1991	CR353438	-5.96	5.64E-04
1992	CR353439	-1.93	4.18E-02
1993	CR353444	-1.15	1.75E-02
1994	CR353449	-1.80	3.03E-03
1995	CR353452	-1.58	3.33E-03
1996	CR353459	-6.23	2.39E-04
1997	CR353464	-3.58	9.48E-04
1998	CR353466	-2.41	7.51E-03
1999	CR353489	-2.86	1.53E-04
2000	CR353495	-3.61	1.31E-03
2001	CR353509	-3.38	1.66E-03
2002	CR353511	-2.64	6.63E-04
2003	CR353513	-4.10	1.29E-03
2004	CR353514	-3.48	2.34E-04
2005	CR353515	-1.21	7.18E-03
2006	CR353522	-1.67	6.61E-03
2007	CR353529	-2.00	1.75E-03
2008	CR353533	-2.07	1.57E-02
2009	CR353541	-5.19	6.70E-04
2010	CR353542	-1.09	2.54E-03
2011	CR353544	-4.08	3.35E-03
2012	CR353546	-3.32	7.43E-04
2013	CR353547	-1.50	1.05E-02
2014	CR353548	-2.48	4.01E-03
2015	CR353549	-3.37	4.81E-04

2016	CR353551	-6.71	6.73E-04
2017	CR353554	-4.72	2.01E-02
2018	CR353574	-7.23	1.26E-04
2019	CR353584	-4.00	3.56E-03
2020	CR353585	-5.63	1.07E-04
2021	CR353591	-1.42	1.09E-03
2022	CR353597	-1.75	2.32E-02
2023	CR353608	-2.71	2.06E-03
2024	CR353609	-5.02	1.43E-03
2025	CR353616	-1.72	2.02E-03
2026	CR353622	-4.84	2.39E-05
2027	CR353624	-2.58	2.54E-03
2028	CR353625	-4.33	5.87E-04
2029	CR353639	-5.24	1.19E-03
2030	CR353664	-1.16	4.30E-02
2031	CR353684	-2.63	2.60E-04
2032	CR353734	-7.14	2.01E-03
2033	CR353739	-7.45	3.26E-04
2034	CR353740	-5.66	8.14E-04
2035	CR353748	-4.62	2.08E-04
2036	CR353800	-5.84	7.35E-05
2037	CR353803	-3.63	8.64E-04
2038	CR353842	-2.00	1.21E-02
2039	CR353857	-6.00	1.33E-04
2040	CR353877	-2.81	2.93E-03
2041	CR353881	-2.88	2.62E-04
2042	CR353897	-3.46	1.33E-03
2043	CR353916	-4.92	1.24E-04
2044	CR353924	-2.62	4.96E-03
2045	CR353937	-3.21	3.83E-03
2046	CR353954	-4.27	2.22E-03
2047	CR353959	-1.47	1.40E-02
2048	CR353976	-2.36	4.57E-03
2049	CR353985	-2.35	1.13E-03
2050	CR354023	-1.45	2.04E-02
2051	CR354039	-2.03	1.28E-02
2052	CR354042	-1.66	1.37E-02
2053	CR354044	-3.27	6.38E-04
2054	CR354076	-2.73	8.57E-03
2055	CR354078	-3.48	5.69E-03
2056	CR354080	-1.16	4.47E-03
2057	CR354084	-2.13	3.77E-03
2058	CR354091	-4.63	6.24E-06
2059	CR354096	-2.85	1.41E-03
2060	CR354116	-7.04	2.81E-05
2061	CR354117	-2.73	1.35E-02
2062	CR354122	-2.84	2.02E-04
2063	CR354123	-3.37	8.53E-03
2064	CR354127	-4.19	5.75E-04
2065	CR354132	-2.88	9.56E-04
2066	CR354135	-1.42	8.14E-04
2067	CR354143	-7.22	1.52E-04
2068	CR354145	-4.60	2.10E-03
2069	CR354151	-5.92	4.44E-04
2070	CR354172	-1.55	5.88E-03
2071	CR354180	-1.67	6.06E-02
2072	CR354183	-2.42	4.83E-04
2073	CR354192	-8.05	5.07E-03
2074	CR354195	-1.50	1.37E-02
2075	CR354203	-4.55	2.51E-04
2076	CR354213	-5.67	1.30E-03
2077	CR354222	-1.49	3.94E-03
2078	CR354230	-3.92	3.57E-05

2079	CR354259	-3.67	6.81E-04
2080	CR354271	-2.03	6.38E-03
2081	CR354275	-1.38	2.05E-02
2082	CR354278	-2.56	1.10E-03
2083	CR354291	-4.00	5.82E-03
2084	CR354305	-5.44	6.46E-04
2085	CR354306	-7.90	3.00E-05
2086	CR354316	-8.12	1.13E-03
2087	CR354329	-5.25	1.75E-04
2088	CR354332	-4.86	2.54E-04
2089	CR354338	-1.46	6.14E-03
2090	CR354340	-2.58	1.73E-02
2091	CR382427	-2.31	1.85E-02
2092	CR385096	-6.13	9.43E-04
2093	CR385102	-3.47	2.58E-03
2094	CR385106	-4.02	7.69E-03
2095	CR385108	-2.67	1.47E-03
2096	CR385119	-5.59	1.40E-03
2097	CR385126	-2.67	1.91E-07
2098	CR385135	-1.20	5.19E-03
2099	CR385141	-5.16	2.30E-04
2100	CR385142	-3.82	1.75E-03
2101	CR385145	-5.97	3.65E-04
2102	CR385155	-5.81	5.63E-04
2103	CR385160	-1.71	1.59E-03
2104	CR385161	-1.47	2.08E-03
2105	CR385162	-2.89	6.83E-04
2106	CR385164	-2.69	5.91E-03
2107	CR385166	-5.94	2.12E-03
2108	CR385169	-2.59	4.37E-02
2109	CR385171	-1.39	3.04E-02
2110	CR385173	-3.25	1.45E-03
2111	CR385195	-2.13	3.62E-02
2112	CR385196	-2.78	2.02E-03
2113	CR385198	-2.11	4.82E-03
2114	CR385199	-4.70	4.05E-02
2115	CR385217	-3.74	2.37E-02
2116	CR385225	-1.46	2.55E-02
2117	CR385228	-3.38	2.65E-03
2118	CR385236	-1.92	3.32E-03
2119	CR385245	-3.39	1.24E-04
2120	CR385250	-1.55	1.37E-01
2121	CR385262	-1.48	2.10E-02
2122	CR385266	-2.64	5.31E-03
2123	CR385267	-2.42	2.35E-03
2124	CR385268	-3.28	8.99E-03
2125	CR385287	-4.88	1.31E-04
2126	CR385297	-2.89	1.09E-04
2127	CR385306	-1.29	4.58E-02
2128	CR385307	-4.69	2.01E-03
2129	CR385310	-4.45	4.95E-04
2130	CR385317	-7.36	5.11E-04
2131	CR385325	-2.32	3.27E-03
2132	CR385330	-5.47	3.09E-04
2133	CR385334	-3.47	3.51E-04
2134	CR385338	-1.26	1.28E-02
2135	CR385352	-1.23	4.94E-03
2136	CR385353	-1.61	1.72E-02
2137	CR385367	-1.63	8.03E-03
2138	CR385389	-1.06	3.99E-03
2139	CR385393	-2.86	3.24E-03
2140	CR385396	-4.81	1.62E-03
2141	CR385411	-3.00	3.83E-03

2142	CR385412	-3.93	1.44E-02
2143	CR385427	-2.25	3.56E-04
2144	CR385460	-1.93	1.71E-03
2145	CR385463	-5.89	6.81E-04
2146	CR385464	-3.44	9.42E-04
2147	CR385473	-1.88	1.46E-02
2148	CR385491	-6.69	7.31E-04
2149	CR385510	-1.87	6.03E-03
2150	CR385519	-4.64	6.61E-04
2151	CR385522	-2.34	8.38E-04
2152	CR385528	-3.27	4.12E-03
2153	CR385539	-5.35	6.97E-03
2154	CR385554	-2.68	3.46E-03
2155	CR385565	-4.92	4.98E-04
2156	CR385569	-4.42	4.13E-03
2157	CR385578	-2.27	2.28E-02
2158	CR385585	-3.27	3.14E-03
2159	CR385594	-5.00	4.36E-03
2160	CR385601	-6.54	4.72E-04
2161	CR385608	-2.76	3.01E-04
2162	CR385614	-2.61	6.71E-04
2163	CR385627	-2.59	4.12E-03
2164	CR385643	-1.86	2.60E-02
2165	CR385645	-1.76	1.33E-03
2166	CR385648	-3.67	6.39E-03
2167	CR385657	-2.58	3.57E-03
2168	CR385663	-3.50	5.48E-04
2169	CR385680	-4.91	1.78E-03
2170	CR385682	-2.98	1.50E-03
2171	CR385689	-1.15	4.35E-03
2172	CR385696	-1.08	5.08E-02
2173	CR385698	-2.17	8.94E-03
2174	CR385700	-1.59	7.57E-03
2175	CR385701	-3.08	1.49E-03
2176	CR385721	-2.31	1.42E-04
2177	CR385733	-1.76	1.00E-02
2178	CR385747	-4.36	3.40E-03
2179	CR385757	-3.60	2.22E-03
2180	CR385759	-2.35	8.11E-04
2181	CR385765	-3.93	1.64E-03
2182	CR385768	-2.06	7.95E-03
2183	CR385780	-4.15	3.92E-05
2184	CR385808	-5.45	1.07E-04
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2189	CR385841	-3.20	5.92E-04
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2191	CR385853	-3.44	4.16E-04
2192	CR385858	-3.16	1.74E-03
2193	CR385866	-3.98	7.03E-04
2194	CR385869	-1.79	1.51E-03
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2212	CR386037	-2.34	1.69E-02
2213	CR386047	-4.54	1.38E-03
2214	CR386053	-3.54	1.48E-03
2215	CR386056	-3.71	9.54E-04
2216	CR386068	-4.39	6.64E-05
2217	CR386075	-2.54	2.56E-03
2218	CR386094	-2.15	2.02E-03
2219	CR386101	-4.04	1.94E-03
2220	CR386103	-1.43	7.58E-03
2221	CR386113	-5.41	1.99E-03
2222	CR386119	-4.71	9.60E-05
2223	CR386128	-4.86	1.50E-04
2224	CR386155	-1.62	5.57E-04
2225	CR386156	-1.53	8.81E-03
2226	CR386166	-1.42	5.24E-02
2227	CR386170	-2.12	5.89E-03
2228	CR386175	-3.26	2.82E-04
2229	CR386187	-1.58	1.07E-02
2230	CR386188	-3.95	8.57E-04
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2232	CR386194	-1.76	1.13E-02
2233	CR386202	-1.79	1.95E-02
2234	CR386203	-2.98	3.34E-03
2235	CR386207	-2.18	5.88E-03
2236	CR386213	-4.10	1.39E-03
2237	CR386215	-4.51	2.42E-04
2238	CR386224	-4.03	1.95E-03
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2244	CR386254	-5.19	1.67E-04
2245	CR386257	-3.14	4.56E-04
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2247	CR386268	-2.39	1.01E-02
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2249	CR386273	-2.28	1.50E-02
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2265	CR386379	-3.60	2.98E-03
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2271	CR386411	-2.57	6.43E-03
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2273	CR386456	-2.25	5.01E-03
2274	CR386468	-4.33	9.58E-04
2275	CR386470	-2.06	5.33E-03
2276	CR386477	-1.56	3.72E-02
2277	CR386492	-4.02	1.96E-03
2278	CR386493	-1.12	3.53E-02
2279	CR386494	-1.28	2.33E-02
2280	CR386498	-1.25	3.11E-03
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2291	CR386570	-3.97	8.01E-04
2292	CR386573	-2.81	1.65E-04
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2294	CR386584	-3.62	1.96E-03
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2316	CR386739	-3.90	1.05E-04
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2318	CR386764	-6.08	1.12E-04
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2324	CR386840	-3.25	2.27E-03
2325	CR386842	-1.41	1.27E-03
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2328	CR386887	-2.85	6.88E-05
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2332	CR386924	-3.48	2.45E-03
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2345	CR387029	-1.24	8.09E-03
2346	CR387038	-1.80	2.80E-02
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2355	CR387081	-2.65	1.05E-02
2356	CR387083	-6.49	3.05E-05
2357	CR387087	-3.52	7.53E-04
2358	CR387108	-3.54	3.23E-03
2359	CR387110	-1.36	8.38E-04
2360	CR387139	-2.47	5.65E-03
2361	CR387140	-5.21	1.16E-04
2362	CR387145	-1.81	9.72E-03
2363	CR387147	-2.29	3.09E-03
2364	CR387151	-2.19	2.49E-02
2365	CR387154	-5.95	5.57E-04
2366	CR387158	-2.37	8.93E-03
2367	CR387163	-2.21	5.57E-03
2368	CR387200	-2.86	9.95E-04
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2373	CR387248	-1.76	1.36E-02
2374	CR387255	-3.41	3.87E-04
2375	CR387256	-4.91	1.43E-03
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2378	CR387281	-1.63	5.53E-02
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2380	CR387305	-3.74	2.22E-04
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2382	CR387312	-3.26	1.58E-02
2383	CR387323	-1.42	2.76E-03
2384	CR387331	-4.69	2.87E-03
2385	CR387338	-2.11	6.67E-04
2386	CR387359	-2.12	2.01E-03
2387	CR387366	-2.54	9.48E-04
2388	CR387376	-1.67	4.00E-03
2389	CR387378	-4.14	3.92E-03
2390	CR387396	-3.00	2.88E-04
2391	CR387400	-6.79	3.49E-04
2392	CR387402	-1.29	7.42E-03
2393	CR387413	-1.80	2.83E-02

2394	CR387417	-4.06	1.04E-03
2395	CR387429	-1.75	1.98E-02
2396	CR387431	-7.30	3.36E-05
2397	CR387438	-1.66	2.19E-04
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2402	CR387452	-5.17	1.11E-03
2403	CR387455	-3.66	2.04E-03
2404	CR387457	-1.46	5.40E-02
2405	CR387468	-7.08	2.91E-04
2406	CR387473	-1.84	2.88E-03
2407	CR387479	-2.50	8.69E-03
2408	CR387493	-1.49	1.51E-02
2409	CR387499	-4.85	9.27E-04
2410	CR387500	-6.40	7.99E-06
2411	CR387502	-3.50	2.75E-04
2412	CR387504	-3.71	1.17E-03
2413	CR387515	-1.10	1.41E-03
2414	CR387517	-5.12	9.16E-04
2415	CR387523	-3.69	5.85E-04
2416	CR387527	-1.67	9.52E-03
2417	CR387530	-3.77	6.00E-03
2418	CR387539	-3.19	6.14E-04
2419	CR387543	-3.85	1.04E-02
2420	CR387548	-4.34	1.53E-03
2421	CR387549	-2.97	7.06E-04
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2444	CR387766	-3.42	1.72E-04
2445	CR387769	-2.95	1.05E-03
2446	CR387783	-1.22	3.21E-02
2447	CR387785	-2.66	2.49E-03
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2449	CR387815	-1.16	3.58E-02
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2451	CR387825	-3.78	6.06E-04
2452	CR387832	-1.20	4.97E-03
2453	CR387836	-5.20	1.25E-03
2454	CR387849	-3.03	5.01E-03
2455	CR387855	-3.24	1.53E-03
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2457	CR387861	-3.60	2.04E-02
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2475	CR388483	-2.21	3.63E-03
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2479	CR388504	-1.30	5.22E-03
2480	CR388509	-1.38	1.95E-02
2481	CR388514	-1.53	4.87E-03
2482	CR388524	-3.95	2.37E-04
2483	CR388526	-3.73	2.14E-03
2484	CR388531	-1.55	3.08E-03
2485	CR388539	-1.75	2.36E-02
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2487	CR388551	-2.45	1.40E-03
2488	CR388563	-1.95	3.13E-03
2489	CR388568	-2.77	1.26E-03
2490	CR388578	-2.49	4.26E-04
2491	CR388583	-1.81	3.54E-04
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2495	CR388603	-3.23	7.85E-05
2496	CR388607	-4.54	1.50E-03
2497	CR388610	-5.22	3.02E-04
2498	CR388611	-7.22	1.96E-04
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2502	CR388641	-3.39	1.34E-04
2503	CR388647	-1.75	1.04E-01
2504	CR388654	-3.64	7.67E-04
2505	CR388658	-3.66	1.70E-03
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2507	CR388666	-1.61	3.51E-03
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2514	CR388705	-2.97	1.48E-03
2515	CR388706	-2.23	5.14E-04
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2517	CR388718	-3.51	1.29E-03
2518	CR388721	-6.34	2.00E-05
2519	CR388722	-2.14	1.83E-02

2520	CR388727	-1.87	7.70E-03
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2522	CR388735	-2.07	7.67E-04
2523	CR388764	-2.95	2.79E-03
2524	CR388786	-1.88	7.82E-03
2525	CR388789	-2.41	1.96E-04
2526	CR388796	-1.33	3.98E-02
2527	CR388801	-6.02	2.93E-04
2528	CR388806	-4.22	5.72E-04
2529	CR388807	-2.99	1.81E-02
2530	CR388815	-1.89	1.21E-02
2531	CR388816	-1.07	6.18E-02
2532	CR388817	-4.14	9.10E-07
2533	CR388823	-5.84	1.30E-03
2534	CR388826	-1.57	3.18E-02
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2539	CR388858	-3.82	9.90E-04
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2545	CR388917	-2.70	1.25E-02
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2547	CR388927	-3.35	3.22E-03
2548	CR388937	-1.24	3.82E-03
2549	CR388938	-2.29	2.42E-03
2550	CR388940	-1.46	1.16E-02
2551	CR388942	-1.23	5.39E-03
2552	CR388950	-2.43	4.52E-03
2553	CR388957	-3.64	7.01E-03
2554	CR388958	-3.15	6.55E-05
2555	CR388970	-3.59	1.13E-03
2556	CR388980	-4.56	3.52E-04
2557	CR388989	-4.67	1.00E-03
2558	CR388990	-1.64	2.19E-03
2559	CR388993	-5.55	7.82E-04
2560	CR388994	-3.14	7.07E-05
2561	CR388995	-2.80	9.25E-03
2562	CR389003	-3.53	1.97E-03
2563	CR389004	-1.59	3.16E-02
2564	CR389010	-5.33	1.21E-04
2565	CR389017	-2.42	1.63E-03
2566	CR389018	-2.88	8.41E-03
2567	CR389022	-4.11	8.75E-04
2568	CR389036	-3.42	3.47E-04
2569	CR389041	-1.35	1.55E-02
2570	CR389049	-4.13	1.19E-03
2571	CR389060	-1.49	4.00E-02
2572	CR389064	-1.72	1.07E-03
2573	CR389070	-2.86	1.97E-03
2574	CR389072	-2.56	9.83E-03
2575	CR389091	-3.29	2.26E-03
2576	CR389092	-2.96	1.28E-02
2577	CR389094	-4.22	5.66E-04
2578	CR389099	-3.01	1.24E-03
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2580	CR389124	-2.35	1.09E-03
2581	CR389126	-3.47	5.95E-04
2582	CR389133	-1.20	2.82E-02

2583	CR389150	-1.24	3.29E-02
2584	CR389158	-3.73	7.24E-04
2585	CR389160	-4.13	1.16E-03
2586	CR389180	-1.87	7.51E-03
2587	CR389182	-2.60	7.85E-04
2588	CR389186	-2.58	2.79E-03
2589	CR389189	-2.84	1.51E-03
2590	CR389195	-5.90	1.23E-03
2591	CR389198	-2.35	2.24E-02
2592	CR389221	-2.65	1.37E-04
2593	CR389222	-1.41	9.72E-03
2594	CR389223	-1.38	5.63E-02
2595	CR389234	-4.11	2.04E-03
2596	CR389238	-2.20	2.31E-02
2597	CR389242	-2.68	2.35E-03
2598	CR389246	-3.41	1.58E-03
2599	CR389248	-4.92	3.14E-03
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2603	CR389278	-2.37	2.22E-05
2604	CR389295	-5.00	9.92E-03
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2606	CR389304	-3.14	1.01E-04
2607	CR389305	-3.19	3.06E-03
2608	CR389307	-2.55	8.86E-03
2609	CR389330	-4.85	4.91E-04
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2611	CR389353	-2.67	3.22E-03
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2614	CR389369	-1.34	2.34E-02
2615	CR389371	-4.06	1.11E-03
2616	CR389374	-3.59	8.01E-04
2617	CR389380	-3.57	3.28E-03
2618	CR389382	-2.38	1.75E-02
2619	CR389385	-2.61	7.27E-03
2620	CR389398	-1.69	5.14E-03
2621	CR389410	-3.50	2.51E-04
2622	CR389412	-4.56	1.63E-03
2623	CR389419	-4.21	9.70E-04
2624	CR389421	-1.40	3.53E-02
2625	CR389434	-4.16	6.42E-03
2626	CR389446	-1.37	6.65E-03
2627	CR389447	-4.99	4.76E-04
2628	CR389451	-2.96	2.38E-03
2629	CR389454	-2.86	1.02E-02
2630	CR389456	-2.29	2.87E-02
2631	CR389469	-3.06	1.09E-01
2632	CR389476	-3.17	1.36E-03
2633	CR389477	-1.98	3.30E-03
2634	CR389494	-1.39	6.31E-03
2635	CR389495	-2.79	3.24E-03
2636	CR389497	-5.21	1.39E-03
2637	CR389505	-1.89	6.40E-03
2638	CR389506	-3.71	3.12E-03
2639	CR389521	-2.29	3.54E-02
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2654	CR389603	-3.70	1.21E-03
2655	CR389607	-3.10	2.77E-05
2656	CR389614	-2.92	1.36E-03
2657	CR389616	-1.47	2.06E-02
2658	CR389623	-1.76	4.18E-02
2659	CR389627	-1.35	1.03E-02
2660	CR389636	-2.80	2.90E-03
2661	CR389639	-2.94	1.67E-03
2662	CR389684	-4.57	1.68E-04
2663	CR389694	-1.30	1.96E-02
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2666	CR389728	-1.64	9.25E-04
2667	CR389732	-3.81	6.92E-04
2668	CR389740	-5.38	6.27E-04
2669	CR389741	-4.74	1.61E-05
2670	CR389744	-1.65	3.70E-03
2671	CR389749	-1.16	6.18E-03
2672	CR389750	-1.25	1.13E-02
2673	CR389765	-2.91	1.49E-05
2674	CR389782	-1.53	1.56E-02
2675	CR389787	-1.33	2.18E-03
2676	CR389789	-3.48	6.27E-04
2677	CR389792	-2.17	1.22E-02
2678	CR389802	-5.14	5.63E-03
2679	CR389809	-4.75	1.55E-03
2680	CR389812	-1.57	4.33E-02
2681	CR389818	-4.71	3.83E-07
2682	CR389819	-5.66	2.12E-05
2683	CR389821	-2.35	1.06E-03
2684	CR389822	-2.21	9.49E-04
2685	CR389833	-5.72	6.90E-05
2686	CR389834	-5.69	2.37E-04
2687	CR389853	-4.33	2.67E-04
2688	CR389854	-3.75	5.05E-05
2689	CR389859	-2.71	1.66E-03
2690	CR389872	-3.31	3.60E-03
2691	CR389873	-4.85	2.22E-03
2692	CR389887	-1.26	2.15E-02
2693	CR389889	-4.12	1.27E-03
2694	CR389901	-1.96	5.32E-03
2695	CR389902	-1.09	6.05E-03
2696	CR389921	-4.68	2.35E-04
2697	CR389931	-5.32	1.77E-03
2698	CR389933	-1.33	1.06E-02
2699	CR389935	-2.54	2.93E-03
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2702	CR389965	-3.87	1.09E-03
2703	CR389967	-1.25	2.38E-02
2704	CR389969	-2.33	3.77E-03
2705	CR389970	-1.13	2.02E-02
2706	CR389977	-2.64	1.96E-02
2707	CR389978	-3.27	1.80E-03
2708	CR389984	-1.25	1.28E-02

2709	CR389992	-2.10	4.68E-03
2710	CR389999	-1.51	1.54E-03
2711	CR390012	-2.36	2.39E-03
2712	CR390043	-1.58	3.28E-04
2713	CR390048	-1.66	1.51E-03
2714	CR390049	-4.59	7.42E-04
2715	CR390052	-2.74	4.88E-03
2716	CR390079	-2.83	1.62E-02
2717	CR390081	-1.15	2.50E-02
2718	CR390087	-2.85	6.27E-04
2719	CR390088	-2.33	5.87E-03
2720	CR390110	-4.60	2.53E-03
2721	CR390112	-1.78	1.20E-02
2722	CR390120	-3.55	8.29E-03
2723	CR390121	-2.50	3.46E-04
2724	CR390128	-3.29	2.97E-03
2725	CR390143	-6.59	5.68E-05
2726	CR390145	-2.54	4.15E-03
2727	CR390163	-1.58	4.61E-02
2728	CR390165	-2.99	2.81E-03
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2730	CR390171	-4.10	1.09E-03
2731	CR390172	-2.15	1.36E-02
2732	CR390185	-5.95	1.66E-03
2733	CR390191	-5.91	4.38E-04
2734	CR390197	-4.33	1.13E-02
2735	CR390200	-2.96	4.74E-03
2736	CR390202	-1.49	2.52E-03
2737	CR390211	-3.03	1.36E-02
2738	CR390216	-1.95	4.36E-02
2739	CR390227	-3.04	6.91E-03
2740	CR390230	-2.64	4.75E-03
2741	CR390234	-4.50	5.78E-04
2742	CR390260	-1.77	4.24E-02
2743	CR390264	-1.39	2.39E-03
2744	CR390274	-2.38	4.60E-03
2745	CR390276	-4.49	2.16E-03
2746	CR390304	-2.07	1.34E-02
2747	CR390310	-3.39	1.22E-04
2748	CR390315	-4.29	2.12E-03
2749	CR390321	-1.45	3.37E-03
2750	CR390322	-3.15	2.83E-02
2751	CR390323	-3.35	1.32E-03
2752	CR390333	-4.29	2.73E-05
2753	CR390347	-5.93	1.17E-03
2754	CR390358	-4.63	9.08E-04
2755	CR390361	-1.67	1.85E-02
2756	CR390373	-3.36	4.54E-05
2757	CR390391	-2.09	1.25E-02
2758	CR390396	-1.66	3.99E-03
2759	CR390407	-6.17	1.31E-04
2760	CR390415	-2.52	9.12E-04
2761	CR390417	-5.92	1.00E-03
2762	CR390424	-3.21	2.78E-03
2763	CR390446	-1.37	7.87E-02
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2765	CR390463	-1.65	2.06E-03
2766	CR390478	-2.43	3.60E-03
2767	CR390484	-3.81	7.30E-04
2768	CR390488	-2.29	9.58E-03
2769	CR390492	-2.93	7.28E-03
2770	CR390494	-3.76	2.55E-03
2771	CR390498	-5.04	4.75E-03

2772	CR390514	-4.64	5.85E-04
2773	CR390531	-2.21	4.50E-03
2774	CR390534	-6.53	4.79E-04
2775	CR390540	-2.03	5.41E-03
2776	CR390556	-1.77	9.25E-03
2777	CR390577	-1.30	2.14E-02
2778	CR390591	-1.51	9.82E-03
2779	CR390592	-1.94	2.41E-02
2780	CR390600	-3.08	6.03E-03
2781	CR390601	-1.91	2.11E-04
2782	CR390609	-3.51	6.74E-03
2783	CR390616	-2.26	2.22E-02
2784	CR390621	-4.63	5.51E-04
2785	CR390626	-1.13	1.55E-02
2786	CR390638	-4.31	2.27E-02
2787	CR390647	-4.58	1.41E-03
2788	CR390649	-2.74	5.56E-03
2789	CR390651	-5.99	3.96E-04
2790	CR390654	-3.10	4.57E-03
2791	CR390664	-2.95	5.00E-03
2792	CR390669	-3.65	5.22E-04
2793	CR390673	-3.38	8.16E-03
2794	CR390684	-4.28	2.09E-04
2795	CR390688	-3.42	8.49E-04
2796	CR390689	-2.45	1.00E-03
2797	CR390721	-1.29	1.95E-02
2798	CR390732	-2.12	6.41E-02
2799	CR390739	-1.98	1.66E-02
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2803	CR390795	-1.12	1.16E-02
2804	CR390797	-1.48	1.66E-02
2805	CR390803	-2.86	1.22E-03
2806	CR390808	-2.30	9.94E-03
2807	CR390817	-4.69	2.80E-03
2808	CR390830	-2.76	1.10E-03
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2811	CR390903	-2.24	7.93E-03
2812	CR390913	-4.15	1.15E-03
2813	CR390929	-2.09	1.92E-03
2814	CR390942	-2.95	2.54E-03
2815	CR390943	-1.31	4.97E-02
2816	CR390946	-1.13	9.63E-03
2817	CR390949	-3.06	7.96E-04
2818	CR390955	-1.15	5.96E-02
2819	CR390956	-1.52	5.34E-03
2820	CR390959	-1.63	1.55E-02
2821	CR390967	-5.25	1.75E-03
2822	CR390976	-5.52	9.46E-04
2823	CR390977	-3.22	1.35E-04
2824	CR390978	-1.56	1.08E-02
2825	CR390980	-3.24	7.19E-04
2826	CR390981	-3.28	3.82E-04
2827	CR390983	-3.52	5.47E-03
2828	CR390985	-5.20	6.19E-04
2829	CR390997	-1.61	4.12E-03
2830	CR391001	-1.54	9.91E-03
2831	CR391007	-3.53	2.31E-03
2832	CR391013	-2.24	3.04E-03
2833	CR391025	-1.85	4.70E-02
2834	CR391026	-1.79	2.83E-03

2835	CR391043	-1.40	1.03E-02
2836	CR391073	-3.28	2.21E-04
2837	CR391096	-3.80	2.71E-03
2838	CR391097	-3.33	1.47E-04
2839	CR391099	-3.45	4.46E-03
2840	CR391133	-1.67	2.00E-03
2841	CR391136	-3.20	1.17E-03
2842	CR391144	-2.07	3.83E-04
2843	CR391196	-3.61	8.32E-05
2844	CR391214	-3.14	2.18E-03
2845	CR391222	-1.49	1.36E-03
2846	CR391240	-2.26	9.25E-03
2847	CR391257	-3.22	6.69E-05
2848	CR391266	-2.54	1.51E-03
2849	CR391273	-2.17	2.62E-03
2850	CR391275	-1.32	3.50E-03
2851	CR391302	-1.24	3.66E-03
2852	CR391322	-1.33	1.11E-02
2853	CR391327	-1.24	2.53E-02
2854	CR391331	-3.29	1.13E-03
2855	CR391356	-3.59	1.93E-03
2856	CR391368	-1.71	6.34E-03
2857	CR391389	-4.21	8.88E-04
2858	CR391390	-1.78	1.39E-04
2859	CR391394	-4.03	3.26E-05
2860	CR391397	-3.75	3.82E-03
2861	CR391399	-3.59	2.61E-03
2862	CR391402	-2.41	2.18E-02
2863	CR391403	-3.54	1.10E-04
2864	CR391406	-3.19	6.53E-04
2865	CR391410	-1.75	3.06E-02
2866	CR391411	-4.44	3.64E-05
2867	CR391414	-2.22	2.40E-03
2868	CR391419	-1.73	4.01E-02
2869	CR391436	-5.06	7.04E-04
2870	CR391440	-1.76	6.00E-05
2871	CR391442	-2.34	1.75E-02
2872	CR391448	-6.81	1.04E-04
2873	CR391450	-2.87	9.69E-04
2874	CR391452	-3.97	1.57E-03
2875	CR391453	-4.63	4.33E-04
2876	CR391457	-2.88	2.50E-03
2877	CR391460	-2.17	3.08E-03
2878	CR391464	-1.72	7.87E-03
2879	CR391465	-2.57	5.10E-03
2880	CR391477	-2.67	5.26E-03
2881	CR391480	-2.26	3.32E-02
2882	CR391482	-1.22	2.65E-02
2883	CR391486	-2.88	5.91E-03
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2885	CR391489	-1.26	4.52E-03
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2893	CR391507	-2.51	3.76E-03
2894	CR391508	-2.47	2.82E-03
2895	CR391514	-3.82	3.96E-04
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2897	CR391526	-2.96	2.24E-03

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2899	CR391529	-2.08	1.36E-02
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2901	CR391535	-2.25	5.49E-02
2902	CR391536	-2.59	4.28E-04
2903	CR391554	-2.21	1.33E-03
2904	CR391556	-2.20	7.55E-04
2905	CR391563	-3.28	2.53E-03
2906	CR391569	-2.33	2.10E-02
2907	CR391586	-3.45	5.65E-04
2908	CR391591	-3.33	2.07E-04
2909	CR391593	-1.92	7.54E-03
2910	CR391600	-1.77	1.95E-03
2911	CR391608	-2.00	5.08E-03
2912	CR391611	-1.47	4.55E-02
2913	CR391615	-5.99	3.42E-04
2914	CR391616	-1.93	8.59E-02
2915	CR391620	-4.54	7.99E-04
2916	CR391622	-5.38	2.11E-04
2917	CR391646	-2.58	1.02E-03
2918	CR391649	-2.94	2.94E-03
2919	CR391651	-5.97	6.01E-04
2920	CR391652	-2.79	1.39E-03
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2922	CR391663	-8.13	1.76E-03
2923	CR391666	-2.35	1.21E-03
2924	CR391667	-3.20	1.29E-03
2925	CR391668	-1.30	3.61E-04
2926	CR391670	-1.99	6.36E-03
2927	CR391676	-1.50	6.49E-03
2928	CR391681	-3.52	1.66E-03
2929	CR391703	-4.37	1.19E-03
2930	CR391713	-6.52	2.81E-06
2931	CR391714	-3.21	1.79E-04
2932	CR391723	-1.38	7.49E-03
2933	CR391747	-4.29	4.31E-04
2934	CR391751	-4.99	9.41E-04
2935	CR391753	-1.49	8.13E-02
2936	CR391759	-3.45	2.43E-03
2937	CR405727	-2.09	4.93E-02
2938	CR405742	-4.78	2.60E-04
2939	CR405764	-2.94	4.13E-04
2940	CR405790	-2.55	2.91E-02
2941	CR405835	-6.09	8.78E-04
2942	CR405837	-1.51	6.95E-03
2943	CR405852	-1.14	9.17E-03
2944	CR405854	-1.39	1.19E-02
2945	CR405866	-1.46	5.18E-02
2946	CR405890	-2.41	7.86E-03
2947	CR405893	-2.07	2.87E-03
2948	CR405912	-1.19	4.98E-03
2949	CR405941	-3.26	6.44E-03
2950	CR405942	-4.49	5.73E-03
2951	CR405958	-4.60	1.69E-04
2952	CR405968	-1.69	4.28E-03
2953	CR405970	-3.62	2.62E-03
2954	CR405976	-6.56	7.78E-05
2955	CR405980	-4.30	1.23E-03
2956	CR405988	-3.76	2.12E-03
2957	CR405994	-2.27	2.76E-03
2958	CR406000	-4.20	1.53E-03
2959	CR406009	-1.66	1.19E-02
2960	CR406037	-2.36	7.01E-03

2961	CR406039	-2.75	4.73E-03
2962	CR406043	-1.83	9.27E-03
2963	CR406068	-4.20	2.44E-04
2964	CR406087	-1.57	1.66E-02
2965	CR406089	-4.84	5.16E-04
2966	CR406096	-1.87	7.92E-02
2967	CR406099	-3.88	3.62E-04
2968	CR406105	-4.14	2.43E-03
2969	CR406108	-1.33	6.07E-03
2970	CR406116	-1.41	2.09E-03
2971	CR406121	-1.22	2.29E-02
2972	CR406125	-4.49	2.39E-03
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2975	CR406136	-3.32	3.68E-03
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2977	CR406146	-5.52	9.54E-05
2978	CR406151	-3.97	1.64E-04
2979	CR406163	-2.79	2.47E-03
2980	CR406190	-1.95	9.03E-03
2981	CR406192	-1.55	1.73E-02
2982	CR406194	-2.19	1.07E-02
2983	CR406196	-2.85	5.66E-04
2984	CR406198	-1.81	3.56E-03
2985	CR406202	-3.53	1.53E-03
2986	CR406208	-5.13	9.09E-04
2987	CR406210	-1.83	3.98E-04
2988	CR406214	-2.84	4.23E-03
2989	CR406226	-1.62	1.66E-02
2990	CR406269	-3.78	1.47E-04
2991	CR406276	-4.68	4.77E-03
2992	CR406289	-2.63	6.65E-03
2993	CR406292	-2.36	4.72E-04
2994	CR406296	-2.26	2.76E-03
2995	CR406307	-4.11	2.33E-04
2996	CR406309	-2.61	6.16E-05
2997	CR406318	-2.88	3.54E-03
2998	CR406331	-3.16	3.29E-03
2999	CR406342	-1.32	1.82E-02
3000	CR406346	-2.72	4.17E-03
3001	CR406355	-3.47	5.03E-03
3002	CR406357	-2.51	7.40E-03
3003	CR406365	-2.80	9.26E-04
3004	CR406366	-3.97	2.24E-05
3005	CR406368	-1.49	9.82E-03
3006	CR406373	-2.50	9.27E-03
3007	CR406381	-4.53	1.86E-03
3008	CR406385	-2.13	6.37E-03
3009	CR406390	-3.34	5.90E-04
3010	CR406397	-2.83	1.57E-03
3011	CR406398	-2.53	7.26E-03
3012	CR406400	-1.56	1.04E-02
3013	CR406441	-2.23	3.37E-04
3014	CR406446	-3.11	8.28E-04
3015	CR406452	-1.38	1.98E-02
3016	CR406455	-2.81	6.79E-03
3017	CR406456	-3.52	2.76E-05
3018	CR406474	-2.74	1.36E-03
3019	CR406485	-3.13	2.03E-03
3020	CR406501	-2.30	3.91E-03
3021	CR406504	-1.31	1.01E-03
3022	CR406512	-1.87	6.96E-03
3023	CR406521	-1.54	3.34E-03

3024	CR406527	-1.66	2.61E-03
3025	CR406535	-1.56	7.73E-03
3026	CR406538	-1.74	6.41E-04
3027	CR406554	-1.20	1.38E-02
3028	CR406561	-4.59	1.13E-03
3029	CR406570	-5.86	4.79E-05
3030	CR406575	-1.48	5.40E-02
3031	CR406586	-1.52	3.06E-02
3032	CR406604	-4.89	6.70E-04
3033	CR406607	-1.90	3.40E-02
3034	CR406622	-2.04	5.89E-03
3035	CR406635	-1.24	5.00E-03
3036	CR406637	-2.32	2.45E-02
3037	CR406656	-4.43	1.61E-03
3038	CR406658	-1.20	2.20E-02
3039	CR406660	-4.33	1.72E-03
3040	CR406664	-1.56	1.87E-02
3041	CR406665	-1.46	8.20E-02
3042	CR406676	-2.98	1.06E-03
3043	CR406684	-2.03	3.66E-03
3044	CR406685	-5.65	5.96E-04
3045	CR406686	-1.53	3.69E-02
3046	CR406688	-4.05	2.06E-04
3047	CR406692	-4.30	1.87E-04
3048	CR406696	-5.01	1.21E-04
3049	CR406697	-1.19	2.10E-02
3050	CR406706	-2.22	7.45E-02
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3054	CR406741	-4.28	3.26E-02
3055	CR406744	-2.22	1.36E-02
3056	CR406763	-3.10	3.85E-03
3057	CR406771	-5.98	2.50E-04
3058	CR406789	-1.23	5.27E-03
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3060	CR406798	-4.92	1.89E-04
3061	CR406800	-2.81	2.32E-03
3062	CR406804	-1.72	1.98E-03
3063	CR406809	-6.07	3.67E-04
3064	CR406813	-3.86	3.55E-03
3065	CR406823	-1.18	5.93E-03
3066	CR406826	-1.23	1.63E-02
3067	CR406829	-2.58	2.47E-03
3068	CR406836	-1.65	1.23E-02
3069	CR406838	-1.96	1.48E-02
3070	CR406841	-4.81	8.05E-04
3071	CR406843	-1.64	2.72E-02
3072	CR406844	-2.86	1.09E-02
3073	CR406845	-3.84	1.71E-03
3074	CR406847	-2.84	6.60E-04
3075	CR406853	-2.08	4.68E-03
3076	CR406868	-3.93	8.51E-05
3077	CR406873	-5.69	3.64E-04
3078	CR406887	-1.07	5.89E-02
3079	CR406897	-1.39	2.44E-03
3080	CR406902	-3.45	5.56E-04
3081	CR406903	-1.38	3.47E-03
3082	CR406910	-2.72	1.10E-03
3083	CR406918	-3.58	2.54E-04
3084	CR406935	-3.61	3.88E-04
3085	CR406956	-4.01	2.31E-04
3086	CR406962	-3.15	1.50E-04

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3089	CR406991	-1.14	1.92E-02
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3092	CR407050	-5.14	6.92E-04
3093	CR407057	-1.97	2.88E-03
3094	CR407063	-7.35	3.43E-04
3095	CR407065	-2.10	5.64E-03
3096	CR407068	-3.73	1.79E-04
3097	CR407069	-3.53	1.63E-03
3098	CR407094	-3.31	1.32E-04
3099	CR407095	-5.16	2.64E-04
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3102	CR407126	-1.20	1.22E-03
3103	CR407146	-2.52	3.16E-03
3104	CR407164	-1.92	3.74E-03
3105	CR407178	-3.49	3.21E-03
3106	CR407192	-4.07	9.97E-04
3107	CR407207	-4.09	6.96E-04
3108	CR407208	-1.71	3.95E-03
3109	CR407209	-4.71	4.10E-05
3110	CR407214	-3.43	7.06E-03
3111	CR407222	-1.38	5.99E-02
3112	CR407224	-2.14	8.03E-03
3113	CR407227	-2.01	1.41E-03
3114	CR407229	-4.47	3.45E-03
3115	CR407242	-3.71	3.62E-03
3116	CR407243	-5.37	1.21E-03
3117	CR407244	-4.80	1.10E-03
3118	CR407248	-1.96	4.09E-03
3119	CR407251	-3.53	2.78E-03
3120	CR407254	-4.25	6.33E-04
3121	CR407256	-3.02	1.55E-03
3122	CR407259	-2.84	7.05E-04
3123	CR407269	-2.19	7.39E-03
3124	CR407283	-3.08	4.15E-03
3125	CR407284	-4.87	4.43E-04
3126	CR407286	-1.15	4.34E-03
3127	CR407293	-4.44	3.43E-04
3128	CR407297	-6.00	3.83E-04
3129	CR407300	-4.89	2.55E-03
3130	CR407306	-4.92	1.28E-05
3131	CR407307	-3.19	1.03E-02
3132	CR407315	-1.75	2.18E-02
3133	CR407326	-1.41	7.65E-03
3134	CR407328	-1.70	1.60E-02
3135	CR407338	-3.42	5.53E-03
3136	CR407377	-6.75	4.57E-04
3137	CR407379	-1.64	2.92E-04
3138	CR407386	-3.14	7.31E-04
3139	CR407387	-2.26	4.44E-04
3140	CR407408	-3.46	1.59E-04
3141	CR407409	-2.88	5.38E-03
3142	CR407413	-3.16	5.72E-04
3143	CR407415	-3.31	2.07E-03
3144	CR407426	-1.50	3.35E-03
3145	CR407428	-3.60	1.18E-04
3146	CR407433	-3.98	1.65E-05
3147	CR407447	-1.98	1.90E-02
3148	CR407487	-3.92	1.90E-04
3149	CR407491	-6.36	1.42E-03

3150	CR407503	-1.65	1.48E-02
3151	CR407504	-5.33	1.21E-03
3152	CR407511	-3.43	7.21E-03
3153	CR407515	-6.00	1.04E-03
3154	CR407516	-1.77	7.93E-02
3155	CR407521	-2.76	3.01E-03
3156	CR407528	-6.53	2.78E-04
3157	CR407533	-1.25	1.94E-02
3158	CR407572	-2.95	4.22E-03
3159	CR407574	-6.75	3.62E-04
3160	CR522884	-2.67	8.77E-03
3161	CR522885	-3.46	5.30E-03
3162	CR522889	-2.11	2.69E-03
3163	CR522901	-2.62	1.47E-03
3164	CR522902	-1.96	3.49E-02
3165	CR522911	-2.99	3.82E-04
3166	CR522924	-4.00	1.22E-04
3167	CR522933	-1.78	3.35E-04
3168	CR522937	-1.48	2.35E-02
3169	CR522950	-3.66	1.44E-02
3170	CR522954	-2.96	1.03E-02
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3172	CR522961	-2.67	1.08E-02
3173	CR522971	-1.74	1.17E-03
3174	CR522976	-2.57	2.70E-04
3175	CR522983	-2.50	1.14E-03
3176	CR522985	-2.79	1.88E-03
3177	CR522990	-3.16	2.96E-04
3178	CR522994	-1.72	1.74E-02
3179	CR522995	-2.52	1.16E-03
3180	CR523002	-4.68	1.80E-04
3181	CR523006	-1.75	1.97E-03
3182	CR523007	-1.55	9.80E-05
3183	CR523012	-3.57	6.32E-04
3184	CR523022	-1.89	6.89E-02
3185	CR523025	-4.59	7.89E-05
3186	CR523027	-3.76	2.80E-03
3187	CR523037	-3.14	3.38E-03
3188	CR523038	-4.62	2.63E-03
3189	CR523042	-2.07	3.28E-03
3190	CR523045	-2.49	1.58E-03
3191	CR523047	-4.29	1.30E-04
3192	CR523052	-6.58	6.03E-04
3193	CR523053	-3.11	4.93E-04
3194	CR523056	-3.05	8.99E-04
3195	CR523067	-1.35	1.82E-03
3196	CR523068	-4.50	3.76E-04
3197	CR523071	-3.37	1.31E-03
3198	CR523073	-1.42	4.67E-02
3199	CR523074	-1.29	2.52E-02
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3202	CR523088	-2.77	2.23E-03
3203	CR523093	-2.47	6.94E-03
3204	CR523102	-4.52	5.79E-04
3205	CR523112	-2.26	6.23E-03
3206	CR523119	-5.62	7.57E-04
3207	CR523137	-1.69	1.41E-03
3208	CR523138	-4.01	1.54E-03
3209	CR523145	-3.36	2.62E-02
3210	CR523149	-5.36	1.45E-03
3211	CR523153	-2.47	1.22E-02
3212	CR523167	-3.75	1.42E-02

3213	CR523182	-6.21	1.72E-05
3214	CR523188	-1.69	2.26E-02
3215	CR523193	-1.22	1.00E-02
3216	CR523195	-2.47	7.54E-04
3217	CR523206	-1.59	7.24E-02
3218	CR523239	-1.75	1.87E-02
3219	CR523258	-3.66	3.76E-04
3220	CR523259	-3.01	3.80E-03
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3222	CR523268	-2.91	1.01E-03
3223	CR523273	-3.27	8.35E-04
3224	CR523277	-3.99	1.15E-04
3225	CR523278	-3.38	3.39E-03
3226	CR523281	-2.24	3.41E-02
3227	CR523303	-3.00	9.29E-03
3228	CR523341	-3.53	8.72E-04
3229	CR523357	-1.09	5.92E-03
3230	CR523359	-1.99	6.47E-03
3231	CR523361	-2.01	6.63E-03
3232	CR523362	-2.13	3.03E-02
3233	CR523377	-3.09	1.34E-03
3234	CR523380	-1.82	7.14E-03
3235	CR523382	-3.52	2.05E-03
3236	CR523406	-4.08	5.15E-03
3237	CR523407	-4.64	4.79E-03
3238	CR523409	-2.97	3.48E-03
3239	CR523411	-3.54	3.25E-03
3240	CR523418	-2.97	3.44E-02
3241	CR523420	-3.54	1.69E-02
3242	CR523421	-5.53	5.37E-05
3243	CR523427	-4.01	1.53E-03
3244	CR523432	-4.26	9.13E-05
3245	CR523436	-2.99	7.07E-04
3246	CR523445	-2.94	2.19E-04
3247	CR523449	-5.64	6.78E-05
3248	CR523450	-2.20	7.14E-04
3249	CR523451	-1.97	2.47E-03
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3251	CR523456	-3.35	2.93E-03
3252	CR523466	-1.54	8.73E-03
3253	CR523467	-2.24	7.62E-04
3254	CR523468	-3.92	2.85E-04
3255	CR523471	-1.56	1.52E-02
3256	CR523474	-2.46	5.08E-03
3257	CR523476	-2.13	7.56E-03
3258	CR523481	-1.71	2.25E-03
3259	CR523495	-6.71	7.46E-04
3260	CR523496	-2.16	2.13E-03
3261	CR523505	-3.34	2.82E-03
3262	CR523506	-4.56	9.66E-05
3263	CR523507	-3.89	1.29E-04
3264	CR523515	-6.67	8.93E-04
3265	CR523529	-1.92	6.25E-03
3266	CR523535	-1.19	2.84E-02
3267	CR523538	-1.52	1.99E-02
3268	CR523543	-2.37	1.92E-02
3269	CR523550	-1.74	2.32E-03
3270	CR523554	-3.19	4.26E-03
3271	CR523555	-5.61	6.47E-04
3272	CR523560	-2.74	4.82E-03
3273	CR523588	-4.06	4.05E-03
3274	CR523597	-3.37	2.30E-03
3275	CR523599	-3.14	2.71E-03

3276	CR523603	-1.13	1.53E-02
3277	CR523607	-2.88	5.39E-03
3278	CR523610	-3.49	5.23E-04
3279	CR523615	-2.47	4.08E-03
3280	CR523616	-2.03	9.04E-03
3281	CR523620	-6.45	2.66E-04
3282	CR523636	-3.99	4.07E-04
3283	CR523640	-5.84	4.06E-04
3284	CR523644	-1.78	5.81E-05
3285	CR523650	-2.16	2.82E-03
3286	CR523658	-1.37	2.30E-02
3287	CR523661	-3.51	3.72E-05
3288	CR523681	-2.70	8.54E-03
3289	CR523699	-4.02	2.52E-04
3290	CR523701	-2.88	7.06E-03
3291	CR523719	-1.93	5.33E-04
3292	CR523723	-3.83	1.18E-04
3293	CR523726	-6.41	1.13E-04
3294	CR523729	-1.96	1.39E-02
3295	CR523735	-2.01	2.61E-03
3296	CR523739	-2.99	6.20E-04
3297	CR523743	-4.13	1.97E-03
3298	CR523745	-2.45	9.63E-03
3299	CR523750	-3.48	7.40E-04
3300	CR523760	-1.75	1.65E-03
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3303	CR523778	-5.63	4.27E-05
3304	CR523794	-3.70	5.35E-04
3305	CR523795	-5.77	3.18E-04
3306	CR523806	-1.55	3.53E-02
3307	CR523813	-2.70	7.22E-04
3308	CR523816	-1.79	2.27E-02
3309	CR523844	-1.30	3.19E-02
3310	CR523871	-3.49	1.08E-03
3311	CR523878	-2.18	1.65E-02
3312	CR523883	-2.19	1.29E-04
3313	CR523903	-2.61	3.82E-04
3314	CR523929	-3.41	5.73E-04
3315	CR523934	-4.19	9.42E-05
3316	CR523941	-1.44	1.16E-02
3317	CR523950	-3.07	6.46E-03
3318	CR523971	-1.26	7.21E-04
3319	CR523978	-3.71	3.48E-04
3320	CR523983	-4.50	6.74E-04
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3322	CR524006	-2.28	1.09E-02
3323	CR524027	-2.43	6.78E-04
3324	CR524031	-1.85	6.97E-04
3325	CR524053	-4.85	6.97E-04
3326	CR524058	-1.59	1.46E-02
3327	CR524063	-5.07	1.26E-04
3328	CR524078	-3.21	3.04E-04
3329	CR524091	-3.00	3.21E-04
3330	CR524093	-2.50	2.82E-03
3331	CR524097	-1.60	9.87E-03
3332	CR524099	-1.50	5.56E-05
3333	CR524109	-1.57	3.37E-03
3334	CR524113	-1.65	3.71E-03
3335	CR524118	-1.47	5.04E-04
3336	CR524122	-3.00	1.15E-03
3337	CR524125	-5.52	1.09E-03
3338	CR524132	-1.60	3.29E-02

3339	CR524142	-1.32	4.68E-03
3340	CR524148	-3.05	4.91E-03
3341	CR524149	-4.60	1.91E-03
3342	CR524162	-5.52	5.55E-06
3343	CR524164	-2.04	6.85E-03
3344	CR524165	-2.30	6.00E-03
3345	CR524171	-3.29	1.07E-03
3346	CR524193	-1.97	2.56E-04
3347	CR524194	-1.11	7.73E-03
3348	CR524196	-2.21	7.65E-03
3349	CR524201	-1.92	2.76E-03
3350	CR524215	-4.09	3.51E-04
3351	CR524234	-4.31	1.02E-03
3352	CR524242	-1.34	1.99E-02
3353	CR524257	-4.04	1.19E-03
3354	CR524259	-4.20	2.39E-03
3355	CR524260	-3.96	2.53E-03
3356	CR524264	-2.16	3.20E-03
3357	CR524266	-3.59	9.98E-04
3358	CR524270	-4.33	7.63E-04
3359	CR524275	-4.82	3.65E-04
3360	CR524282	-4.13	3.94E-04
3361	CR524288	-2.30	6.05E-04
3362	CR524290	-4.62	8.91E-04
3363	CR524300	-2.21	5.11E-04
3364	CR524313	-3.73	5.29E-03
3365	CR524315	-4.93	2.88E-04
3366	CR524325	-1.54	5.15E-03
3367	CR524329	-2.63	6.51E-03
3368	CR524337	-1.65	2.30E-03
3369	CR524339	-1.42	3.79E-03
3370	CR524351	-3.42	6.36E-05
3371	CR524352	-1.51	5.82E-02
3372	CR524355	-3.38	4.38E-04
3373	CR524365	-3.53	4.91E-04
3374	CR524369	-2.24	2.51E-03
3375	CR524375	-1.58	3.98E-03
3376	CR524376	-1.49	3.27E-02
3377	CR524387	-1.11	1.81E-02
3378	CR524389	-4.02	2.08E-03
3379	CR524390	-3.58	2.14E-05
3380	CR524404	-5.63	7.55E-04
3381	CR524406	-3.78	6.34E-04
3382	CR524412	-2.06	1.76E-02
3383	CR524429	-1.72	4.25E-03
3384	CR524436	-6.22	2.13E-05
3385	CR524462	-2.26	6.47E-03
3386	CR524463	-1.53	1.18E-02
3387	CR524466	-3.05	9.37E-03
3388	CR732735	-3.57	6.94E-03
3389	CR732778	-1.91	7.61E-03
3390	CR732803	-6.89	7.98E-04
3391	CR732824	-1.40	3.73E-02
3392	CR733020	-2.06	4.85E-02
3393	CR733064	-4.86	1.93E-04
3394	CR733118	-3.23	4.19E-03
3395	CR733127	-1.27	7.35E-03
3396	CR733131	-1.24	1.64E-02
3397	CR733143	-1.50	3.42E-02
3398	CR733216	-5.08	2.11E-03
3399	CR733231	-7.68	3.51E-04
3400	CR733258	-1.98	2.90E-02
3401	CR733265	-3.89	3.56E-04

3402	CR733307	-4.30	4.63E-03
3403	CR733330	-1.70	6.89E-02
3404	CR733334	-3.24	1.40E-03
3405	CR733347	-3.17	1.39E-03
3406	CR733352	-4.17	1.07E-03
3407	CR733387	-2.59	8.68E-05
3408	CR733416	-2.58	3.49E-03
3409	CRABP1	-3.08	8.98E-03
3410	CRCP	-5.60	2.05E-04
3411	CRDS2	-2.66	1.15E-03
3412	CREB3	-3.54	2.93E-04
3413	CREB3L1	-1.23	1.04E-02
3414	CREBL2	-3.56	3.10E-04
3415	CRELD2	-4.62	2.27E-04
3416	CREM	-2.28	9.78E-03
3417	CRH	-1.87	9.77E-02
3418	CRIM1	-2.03	5.30E-03
3419	CRIPT	-5.37	9.31E-04
3420	CRKL	-5.06	9.19E-04
3421	CRLF3	-5.35	3.72E-04
3422	CRLS1	-3.12	4.59E-04
3423	CRNKL1	-3.99	1.26E-03
3424	CROT	-7.49	1.74E-04
3425	CRTAP	-5.09	1.01E-03
3426	CRTC1	-5.99	8.29E-05
3427	CRY1	-3.31	2.82E-04
3428	CRY2	-4.19	4.16E-04
3429	CRYGN	-1.46	4.26E-02
3430	CRYL1	-2.39	3.42E-04
3431	CRYM	-2.16	2.19E-02
3432	CRYZ	-2.14	2.10E-03
3433	CRYZL1	-6.21	4.18E-04
3434	CSDA	-3.02	4.78E-03
3435	CSD E1	-3.66	6.63E-05
3436	CSE1L	-4.57	3.55E-03
3437	CSGALNACT2	-2.08	7.80E-03
3438	CSNK1A1	-5.99	1.00E-03
3439	CSNK1D	-2.30	5.75E-04
3440	CSNK1E	-4.76	1.76E-03
3441	CSNK1G1	-3.85	1.21E-03
3442	CSNK2A1	-4.27	1.41E-04
3443	CSRNP1	-3.19	1.33E-02
3444	CSRNP3	-6.69	4.47E-04
3445	CSRP2	-4.18	1.80E-03
3446	CSRP2BP	-4.07	9.20E-05
3447	CST3	-6.89	1.89E-04
3448	CSTB	-5.70	8.25E-04
3449	CSTF2	-2.70	8.17E-03
3450	CSTF3	-6.41	3.55E-04
3451	CTBP1	-3.17	4.29E-04
3452	CTCF	-1.97	2.77E-02
3453	CTDP1	-3.41	1.08E-05
3454	CTDSPL	-2.50	1.93E-02
3455	CTDSPL2	-1.87	2.74E-02
3456	CTGF	-3.26	1.98E-02
3457	CTH	-1.78	1.97E-02
3458	CTHRC1	-4.12	1.78E-03
3459	CTNNA1	-3.20	3.51E-04
3460	CTNNA3	-1.47	2.07E-03
3461	CTNNB1	-5.82	6.38E-04
3462	CTNNBIP1	-2.50	1.02E-03
3463	CTNNBL1	-3.40	2.72E-04
3464	CTNND1	-1.65	1.80E-02

3465	CTPS2	-4.38	6.45E-04
3466	CTR9	-3.95	1.54E-04
3467	CTSA	-5.96	6.24E-04
3468	CTSH	-1.05	7.86E-03
3469	CTSL2	-4.03	2.70E-04
3470	CTSS	-1.21	4.40E-02
3471	CTSZ	-1.11	1.37E-03
3472	CTTN	-2.46	3.79E-03
3473	CTTNBP2	-4.53	1.85E-04
3474	CTTNBP2NL	-2.50	8.33E-04
3475	CUL1	-2.58	4.47E-03
3476	CUL2	-1.22	6.71E-04
3477	CUL3	-6.83	7.45E-05
3478	CUL4A	-3.87	1.90E-03
3479	CUL5	-2.58	6.88E-04
3480	CUTA	-2.22	3.97E-02
3481	CUTC	-3.79	1.12E-04
3482	CUX1	-4.13	8.00E-03
3483	CV854043	-2.25	4.46E-03
3484	CV855125	-2.65	4.89E-04
3485	CV855835	-4.53	7.15E-04
3486	CV856329	-4.67	4.44E-04
3487	CV856945	-2.98	1.53E-02
3488	CV858534	-3.77	1.24E-04
3489	CV858761	-4.74	8.52E-04
3490	CV859025	-1.73	1.92E-02
3491	CV859088	-3.65	3.35E-04
3492	CV859173	-3.67	3.11E-03
3493	CV859265	-2.58	3.43E-03
3494	CV859284	-2.45	2.56E-05
3495	CV859334	-1.93	8.33E-04
3496	CV859391	-1.39	3.94E-02
3497	CV859444	-2.75	2.34E-04
3498	CV859557	-2.72	7.15E-04
3499	CV859752	-4.18	2.83E-04
3500	CV859797	-3.36	3.15E-03
3501	CV859945	-1.37	1.81E-03
3502	CV860146	-3.56	1.87E-03
3503	CV860159	-3.09	1.36E-03
3504	CV860274	-1.52	5.09E-03
3505	CV860626	-3.58	3.78E-03
3506	CV860651	-3.30	8.57E-02
3507	CV860692	-1.67	1.31E-02
3508	CV860933	-4.58	8.78E-04
3509	CV861196	-3.29	6.13E-04
3510	CV861241	-1.34	1.45E-02
3511	CV861265	-1.57	6.86E-03
3512	CV861302	-3.88	1.54E-04
3513	CV861605	-3.15	9.38E-04
3514	CV861615	-3.03	3.59E-04
3515	CV861629	-1.23	1.42E-02
3516	CV861667	-2.00	6.83E-03
3517	CV861885	-2.69	1.88E-03
3518	CV862250	-1.45	2.04E-03
3519	CV862376	-2.92	1.44E-02
3520	CV862635	-4.14	6.23E-04
3521	CV862799	-5.97	9.17E-04
3522	CWC15	-5.68	4.25E-05
3523	CWC22	-5.17	4.12E-04
3524	CWC25	-1.41	1.97E-02
3525	CWC27	-3.68	1.04E-04
3526	CWF19L2	-3.73	6.47E-05
3527	CXADR	-4.68	5.79E-03

3528	CXCL13L2	-1.41	4.71E-03
3529	CXCR7	-2.84	3.63E-04
3530	CXXC5	-1.11	8.87E-03
3531	CYB5A	-3.73	4.39E-04
3532	CYB5B	-1.57	1.78E-02
3533	CYB5D2	-3.69	5.61E-04
3534	CYB5R2	-2.39	5.43E-03
3535	CYB5RL	-2.56	2.48E-04
3536	CYBASC3	-1.37	7.20E-03
3537	CYCS	-2.96	1.94E-02
3538	CYP11A1	-2.12	6.51E-02
3539	CYP20A1	-1.41	2.49E-03
3540	CYP39A1	-2.40	3.11E-03
3541	CYP46A1	-5.41	2.02E-04
3542	CYP51A1	-2.12	2.26E-03
3543	CYP7A1	-1.30	2.89E-02
3544	CYP8B1	-3.63	3.03E-02
3545	CYSTM1	-2.93	6.59E-04
3546	CYTB	-8.51	2.98E-03
3547	CYTH1	-2.07	3.22E-04
3548	CZH18orf25	-1.40	4.04E-03
3549	CZH20orf134	-4.02	1.15E-03
3550	CZH5orf28	-3.35	1.25E-03
3551	CZH5orf30	-1.78	5.74E-02
3552	CZH5orf44	-4.47	6.66E-05
3553	CZH5orf51	-3.94	1.60E-03
3554	CZH5orf63	-3.12	4.25E-03
3555	CZH9orf100	-1.32	3.47E-03
3556	CZH9orf103	-2.96	1.17E-03
3557	CZH9orf150	-3.53	2.67E-04
3558	CZH9orf24	-6.78	7.46E-04
3559	CZH9orf41	-2.11	2.09E-03
3560	CZH9orf64	-1.88	2.07E-03
3561	CZH9orf95	-3.00	4.49E-03
3562	D2HGDH	-1.62	1.48E-02
3563	D90399	-2.25	3.14E-02
3564	DAAM1	-1.64	1.47E-02
3565	DAAM2	-3.65	1.26E-03
3566	DAB2IP	-2.76	2.26E-03
3567	DACH2	-3.66	1.34E-03
3568	DAD1	-7.19	4.35E-04
3569	DAGLA	-1.25	3.21E-01
3570	DAP	-2.00	2.94E-02
3571	DAP3	-3.98	4.90E-03
3572	DAPP1	-3.94	6.39E-04
3573	DARS	-3.95	3.26E-03
3574	DASRAA	-3.77	2.39E-03
3575	DAZAP1	-6.65	6.43E-04
3576	DAZL	-6.94	1.70E-03
3577	DBI	-4.64	1.76E-03
3578	DBNDD1	-2.77	1.16E-01
3579	DBT	-1.65	1.01E-03
3580	DBX2	-3.67	4.96E-04
3581	DCAF12	-2.51	5.83E-03
3582	DCAF13	-2.71	1.11E-04
3583	DCAF4	-5.93	2.76E-04
3584	DCAF5	-1.77	3.35E-02
3585	DCAF7	-3.81	1.25E-04
3586	DCAKD	-3.31	1.45E-03
3587	DCBLD2	-4.70	6.35E-04
3588	DCCK	-4.40	8.61E-04
3589	DCLRE1A	-2.70	2.20E-03
3590	DCLRE1B	-2.38	3.48E-04

3591	DCN	-1.19	3.27E-03
3592	DCP1A	-2.59	8.59E-03
3593	DCPS	-2.25	7.15E-03
3594	DCTD	-3.65	2.22E-03
3595	DCTN1	-1.08	4.42E-03
3596	DCTN3	-6.17	2.37E-05
3597	DCTN4	-4.27	3.34E-04
3598	DCTN5	-3.18	1.65E-03
3599	DCTN6	-6.43	3.48E-04
3600	DCUN1D1	-4.60	1.96E-04
3601	DCUN1D2	-4.12	1.51E-02
3602	DCUN1D3	-2.00	1.79E-03
3603	DCUN1D4	-2.52	3.59E-02
3604	DCUN1D5	-7.22	2.59E-04
3605	DCXR	-3.55	3.02E-04
3606	DDA1	-3.21	1.68E-03
3607	DDB1	-2.28	1.14E-03
3608	DDHD1	-2.43	1.29E-02
3609	DDHD2	-4.08	3.44E-03
3610	DDOST	-1.91	6.93E-03
3611	DDRGK1	-6.56	7.86E-05
3612	DDT	-6.80	5.19E-04
3613	DDX1	-6.42	1.30E-05
3614	DDX10	-2.11	7.15E-03
3615	DDX11	-3.98	1.90E-03
3616	DDX17	-4.26	4.01E-04
3617	DDX20	-3.18	7.69E-03
3618	DDX24	-1.65	1.47E-02
3619	DDX25	-6.32	4.52E-04
3620	DDX26B	-2.20	4.14E-03
3621	DDX27	-3.82	8.98E-04
3622	DDX31	-2.12	4.64E-03
3623	DDX3X	-5.51	6.24E-04
3624	DDX4	-7.15	4.13E-06
3625	DDX42	-3.94	5.02E-05
3626	DDX43	-4.34	5.03E-04
3627	DDX46	-3.03	1.26E-02
3628	DDX49	-1.61	3.75E-03
3629	DDX5	-3.31	5.43E-05
3630	DDX50	-4.34	4.89E-04
3631	DDX51	-2.82	7.85E-04
3632	DDX52	-3.72	9.64E-04
3633	DDX55	-2.92	3.15E-04
3634	DDX59	-1.32	6.20E-03
3635	DEAF1	-2.15	3.04E-03
3636	DECR1	-4.21	1.94E-03
3637	DEGS1	-3.20	9.76E-05
3638	DEK	-2.78	3.61E-02
3639	DENND1B	-4.60	1.28E-04
3640	DENND2C	-1.39	8.19E-03
3641	DENND4C	-1.11	4.49E-03
3642	DENND5A	-3.65	5.96E-03
3643	DENND6A	-2.88	4.01E-03
3644	DENR	-6.48	1.68E-05
3645	DEPDC1	-4.34	2.64E-03
3646	DEPDC1B	-2.40	1.37E-02
3647	DEPDC5	-1.50	3.45E-03
3648	DEPDC7	-6.05	5.49E-04
3649	DERA	-3.15	3.77E-03
3650	DERL1	-4.94	7.80E-04
3651	DERL2	-4.28	3.08E-04
3652	DERL3	-2.98	1.77E-03
3653	DFFA	-2.99	9.93E-04

3654	DFFB	-3.68	1.84E-03
3655	DFNA5	-5.26	1.94E-04
3656	DGCR14	-4.23	3.46E-04
3657	DGCR6	-1.94	1.03E-03
3658	DGCR8	-2.46	5.35E-03
3659	DGKE	-3.92	1.06E-03
3660	DGKQ	-3.10	5.57E-03
3661	DHCR24	-2.23	5.80E-03
3662	DHCR7	-4.53	2.58E-03
3663	DHDDS	-1.85	7.11E-04
3664	DHFR	-3.45	6.04E-05
3665	DHODH	-1.61	3.91E-04
3666	DHRS7	-4.75	2.27E-04
3667	DHRS7B	-5.40	4.71E-04
3668	DHX15	-5.51	1.18E-06
3669	DHX36	-6.99	6.27E-05
3670	DHX37	-1.41	3.77E-03
3671	DHX38	-3.88	2.41E-03
3672	DHX40	-2.35	9.13E-03
3673	DIABLO	-1.51	1.44E-03
3674	DIAPH1	-4.66	1.86E-03
3675	DIAPH3	-4.56	5.11E-04
3676	DIEXF	-4.12	2.58E-03
3677	DIMT1L	-2.75	1.84E-03
3678	DIRC2	-1.82	4.45E-02
3679	DIS3	-4.34	1.07E-04
3680	DIS3L2	-1.12	1.53E-03
3681	DISP1	-1.74	7.70E-03
3682	DIXDC1	-1.92	6.16E-02
3683	DKC1	-2.65	8.12E-03
3684	DKK3	-5.74	2.83E-04
3685	DLD	-3.48	7.55E-04
3686	DLGAP4	-3.69	9.28E-03
3687	DLGAP5	-5.60	4.85E-05
3688	DLST	-2.63	1.35E-03
3689	DMD	-1.38	1.14E-02
3690	DMRT1	-3.19	9.30E-03
3691	DMTF1	-1.71	4.89E-03
3692	DN851424	-1.34	2.04E-02
3693	DNA2	-6.11	4.41E-05
3694	DNAAF1	-5.92	3.34E-04
3695	DNAH10	-1.88	1.71E-03
3696	DNAH12	-3.01	5.39E-03
3697	DNAH17	-4.29	1.89E-04
3698	DNAH3	-3.60	8.21E-04
3699	DNAI2	-5.71	4.23E-05
3700	DNAJA1	-5.49	1.75E-02
3701	DNAJA2	-5.57	2.70E-04
3702	DNAJA3	-2.91	4.44E-02
3703	DNAJA4	-4.09	1.82E-03
3704	DNAJB12	-2.94	3.64E-03
3705	DNAJB13	-2.57	8.83E-03
3706	DNAJB14	-4.88	6.20E-04
3707	DNAJB4	-4.70	2.17E-04
3708	DNAJB6	-4.01	9.31E-04
3709	DNAJB9	-2.82	5.98E-04
3710	DNAJC1	-4.03	1.63E-03
3711	DNAJC10	-3.63	2.19E-03
3712	DNAJC11	-2.86	3.60E-04
3713	DNAJC12	-3.84	1.18E-04
3714	DNAJC13	-2.74	3.89E-04
3715	DNAJC15	-7.61	1.17E-04
3716	DNAJC17	-4.05	1.89E-02

3717	DNAJC18	-4.52	1.07E-03
3718	DNAJC2	-7.12	2.50E-06
3719	DNAJC21	-2.69	2.61E-03
3720	DNAJC24	-7.09	5.91E-04
3721	DNAJC25	-3.19	6.63E-04
3722	DNAJC27	-1.55	8.92E-03
3723	DNAJC3	-3.49	1.67E-02
3724	DNAJC30	-2.62	8.83E-04
3725	DNAJC5	-1.92	4.44E-03
3726	DNAJC8	-5.39	4.58E-06
3727	DNAJC9	-6.43	1.45E-05
3728	DNAL1	-2.12	1.99E-03
3729	DNAL4	-5.16	2.97E-03
3730	DNAL11	-6.05	5.60E-04
3731	DNER	-2.95	2.39E-04
3732	DNLZ	-2.19	5.59E-03
3733	DNM1	-3.13	1.14E-03
3734	DNM1L	-3.48	1.78E-03
3735	DNPEP	-3.74	7.47E-04
3736	DOCK7	-1.89	2.32E-03
3737	DOHH	-3.42	1.54E-03
3738	DOLK	-3.04	1.07E-02
3739	DONSON	-4.14	4.24E-04
3740	DOPEY1	-1.52	4.53E-02
3741	DPAGT1	-2.45	2.90E-02
3742	DPCD	-5.30	2.16E-03
3743	DPH1	-1.91	1.37E-03
3744	DPH2	-3.95	1.06E-04
3745	DPH5	-4.28	1.32E-04
3746	DPP4	-1.62	3.75E-02
3747	DPP7	-3.63	1.28E-03
3748	DPP8	-3.46	3.38E-04
3749	DPY19L1	-4.67	8.73E-05
3750	DPY30	-5.85	1.28E-04
3751	DPYS	-6.66	6.56E-05
3752	DPYSL3	-3.75	2.29E-03
3753	DPYSL4	-1.72	5.95E-02
3754	DR1	-6.64	2.21E-05
3755	DR410336	-1.85	1.31E-03
3756	DR410398	-4.10	2.42E-03
3757	DR410535	-2.86	4.45E-04
3758	DR410876	-4.80	1.30E-04
3759	DR411196	-2.51	3.59E-03
3760	DR411245	-5.26	4.61E-03
3761	DR411270	-4.59	2.16E-03
3762	DR411532	-2.55	4.43E-03
3763	DR411613	-2.10	1.37E-04
3764	DR411789	-5.41	3.05E-03
3765	DR411838	-2.75	7.46E-03
3766	DR411968	-6.62	1.93E-04
3767	DR412230	-3.06	7.13E-04
3768	DR412563	-5.37	1.27E-03
3769	DR412887	-6.83	2.55E-04
3770	DR413278	-1.65	1.57E-04
3771	DR413425	-3.52	3.74E-03
3772	DR413643	-2.84	2.22E-03
3773	DR413961	-6.76	2.33E-04
3774	DR414083	-5.16	3.48E-03
3775	DR414223	-3.46	5.15E-03
3776	DR414315	-3.17	3.59E-03
3777	DR414494	-5.37	3.05E-03
3778	DR414565	-6.04	6.20E-05
3779	DR415129	-3.46	1.17E-03

3780	DR415393	-1.37	1.89E-02
3781	DR415668	-2.14	6.16E-03
3782	DR415886	-3.37	1.95E-02
3783	DR415989	-2.89	5.65E-03
3784	DR416056	-1.92	7.04E-03
3785	DR416088	-2.41	7.49E-04
3786	DR416112	-2.13	2.37E-03
3787	DR416800	-2.81	5.33E-03
3788	DR417302	-2.64	9.49E-04
3789	DR417655	-2.18	2.44E-02
3790	DR417798	-2.24	2.50E-02
3791	DR417811	-2.24	6.51E-04
3792	DR417814	-3.40	1.49E-03
3793	DR417916	-1.39	3.48E-02
3794	DR417963	-3.32	8.12E-03
3795	DR418155	-2.88	8.50E-04
3796	DR418477	-3.11	1.29E-04
3797	DR418821	-1.26	4.23E-03
3798	DR419086	-2.47	5.95E-04
3799	DR419108	-5.07	1.19E-03
3800	DR419169	-2.83	1.85E-03
3801	DR419300	-1.71	2.08E-02
3802	DR419490	-2.11	1.48E-04
3803	DR419542	-2.40	1.19E-02
3804	DR419625	-8.19	1.36E-03
3805	DR419728	-3.12	2.72E-03
3806	DR420403	-2.22	4.26E-03
3807	DR420538	-5.22	2.55E-03
3808	DR420690	-1.98	3.27E-03
3809	DR420743	-2.25	2.34E-02
3810	DR420879	-4.43	1.77E-03
3811	DR424806	-2.01	2.54E-03
3812	DR426316	-4.67	1.34E-03
3813	DR427235	-5.47	9.05E-05
3814	DR429050	-2.11	1.84E-03
3815	DR429224	-3.69	7.83E-04
3816	DR429499	-3.93	1.45E-04
3817	DR429689	-3.76	1.02E-03
3818	DR431170	-5.15	1.01E-04
3819	DR431746	-2.69	3.94E-03
3820	DR973990	-2.37	1.13E-02
3821	DRAM2	-3.53	2.03E-04
3822	DRD4	-1.35	5.42E-03
3823	DRG1	-6.20	2.62E-04
3824	DROSHA	-2.86	3.20E-03
3825	DSCC1	-1.73	8.04E-03
3826	DSCR3	-1.23	2.30E-02
3827	DSN1	-5.22	2.54E-03
3828	DSP	-2.83	8.28E-04
3829	DSTN	-3.86	5.47E-03
3830	DSTYK	-1.35	2.87E-02
3831	DTD1	-7.20	1.80E-04
3832	DTL	-2.75	1.13E-04
3833	DTNA	-1.78	1.52E-03
3834	DTNB	-3.87	9.79E-04
3835	DTNBP1	-2.50	5.06E-03
3836	DTWD1	-5.19	7.89E-05
3837	DTX2	-4.61	2.44E-04
3838	DTX3L	-3.69	7.29E-04
3839	DTYMK	-4.24	1.13E-03
3840	DUPD1	-5.48	2.01E-03
3841	DUS1L	-3.89	3.87E-04
3842	DUS2L	-2.79	1.61E-03

3843	DUS3L	-3.18	3.40E-04
3844	DUS4L	-3.72	4.62E-04
3845	DUSP1	-2.52	1.97E-03
3846	DUSP12	-4.99	3.98E-04
3847	DUSP14	-1.95	4.62E-03
3848	DUSP18	-7.10	2.89E-04
3849	DUSP19	-2.07	2.13E-02
3850	DUSP22	-1.84	2.68E-03
3851	DUSP3	-4.15	5.59E-03
3852	DUT	-4.00	1.89E-04
3853	DYDC1	-7.93	3.27E-04
3854	DYM	-3.68	2.18E-03
3855	DYNC1I1	-2.86	1.95E-04
3856	DYNC1I2	-2.18	1.37E-03
3857	DYNC1L1	-1.83	1.84E-04
3858	DYNC1L2	-1.54	1.17E-02
3859	DYNC2H1	-2.76	3.70E-03
3860	DYNC2L1	-1.68	1.10E-02
3861	DYNLL1	-6.23	2.05E-04
3862	DYNLL2	-4.53	1.07E-04
3863	DYNLRB1	-2.98	3.66E-03
3864	DYNLT1	-8.37	9.57E-06
3865	DYNLT3	-2.27	1.03E-02
3866	DYRK1A	-4.49	2.29E-03
3867	DYRK2	-1.74	3.38E-02
3868	DYRK3	-6.74	1.49E-04
3869	DYX1C1	-4.40	1.71E-03
3870	DZANK1	-3.33	4.13E-04
3871	DZIP1	-4.17	3.75E-03
3872	E2F1	-2.97	1.10E-03
3873	E2F4	-1.92	4.17E-03
3874	E2F5	-3.62	1.40E-03
3875	E2F6	-1.81	4.58E-03
3876	E2F8	-4.71	3.72E-04
3877	E4F1	-4.03	1.66E-03
3878	EAF1	-1.36	6.54E-03
3879	EAPP	-4.69	1.17E-03
3880	EARS2	-2.05	6.82E-04
3881	EBAG9	-5.50	6.27E-04
3882	EBNA1BP2	-4.79	2.34E-04
3883	ECD	-2.20	3.45E-03
3884	ECE1	-2.76	5.25E-03
3885	ECHDC2	-3.95	9.37E-04
3886	ECHDC3	-6.76	7.98E-04
3887	ECHS1	-3.22	5.43E-04
3888	ECI1	-1.20	8.84E-03
3889	ECI2	-1.80	4.25E-02
3890	EDARADD	-2.76	3.85E-03
3891	EDEM3	-2.76	1.59E-03
3892	EDF1	-6.55	2.80E-04
3893	EDNRA	-1.86	8.68E-04
3894	EEA1	-3.65	6.62E-04
3895	EEF1A1	-5.49	1.14E-03
3896	EEF1B2	-7.44	2.70E-04
3897	EEF1D	-7.89	1.17E-04
3898	EEF1E1	-4.29	3.83E-05
3899	EEF1G	-5.89	6.41E-03
3900	EEF2	-4.64	6.91E-03
3901	EEPD1	-2.66	2.70E-03
3902	EFCAB1	-7.76	7.97E-04
3903	EFCAB11	-5.20	1.89E-04
3904	EFCAB4B	-2.52	5.33E-04
3905	EFCAB6	-6.45	4.00E-04

3906	EFEMP1	-2.64	2.25E-03
3907	EFHA1	-1.99	3.23E-02
3908	EFHA2	-2.77	7.64E-04
3909	EFHB	-8.03	2.26E-04
3910	EFHC1	-7.26	3.15E-05
3911	EFHC2	-8.00	2.72E-05
3912	EFHD1	-3.25	2.14E-03
3913	EFR3A	-3.62	2.02E-04
3914	EFTUD1	-3.90	1.36E-03
3915	EFTUD2	-2.91	2.30E-02
3916	EGFL6	-3.12	3.03E-03
3917	EGLN3	-4.50	5.13E-03
3918	EGR1	-1.57	5.82E-02
3919	EHD3	-3.40	3.26E-03
3920	EHF	-2.34	1.73E-03
3921	EI24	-3.57	3.02E-03
3922	EIF1	-6.37	1.95E-04
3923	EIF1AD	-6.17	1.25E-03
3924	EIF1AY	-5.48	1.67E-04
3925	EIF1B	-6.64	1.83E-05
3926	EIF2A	-5.83	2.10E-03
3927	EIF2AK1	-3.47	2.01E-03
3928	EIF2B2	-5.23	9.60E-04
3929	EIF2B3	-3.31	7.86E-03
3930	EIF2B4	-2.42	3.52E-03
3931	EIF2C3	-3.45	2.04E-04
3932	EIF2C4	-1.30	6.56E-04
3933	EIF2D	-4.28	3.85E-04
3934	EIF2S1	-6.66	2.75E-05
3935	EIF2S2	-6.17	2.83E-05
3936	EIF2S3	-7.30	7.27E-06
3937	EIF3A	-2.07	2.53E-02
3938	EIF3D	-5.10	6.65E-05
3939	EIF3E	-7.60	7.30E-05
3940	EIF3F	-5.76	1.59E-04
3941	EIF3H	-7.78	3.15E-05
3942	EIF3I	-3.81	1.18E-02
3943	EIF3J	-5.37	8.52E-05
3944	EIF3L	-7.64	4.81E-04
3945	EIF3M	-8.21	1.15E-04
3946	EIF4A2	-4.42	3.56E-03
3947	EIF4A3	-6.59	1.28E-03
3948	EIF4E	-5.85	4.63E-05
3949	EIF4E3	-2.68	2.20E-03
3950	EIF4EBP2	-3.61	4.64E-04
3951	EIF4G2	-6.57	2.26E-04
3952	EIF4G3	-3.47	8.55E-03
3953	EIF4H	-3.06	1.15E-02
3954	EIF5	-7.65	1.37E-04
3955	EIF5A2	-3.48	1.15E-02
3956	EIF5B	-3.83	7.40E-04
3957	EIF6	-3.84	5.58E-04
3958	ELAC2	-2.16	5.89E-02
3959	ELAVL1	-4.19	8.07E-05
3960	ELAVL4	-2.36	5.27E-03
3961	ELK3	-1.62	1.28E-03
3962	ELL	-1.74	8.98E-03
3963	ELL2	-3.80	1.32E-03
3964	ELMO1	-2.33	4.72E-03
3965	ELMO2	-4.03	5.27E-04
3966	ELMOD2	-4.13	4.17E-04
3967	ELOVL1	-3.21	5.19E-06
3968	ELOVL5	-5.60	9.00E-04

3969	ELOVL6	-1.14	7.68E-03
3970	ELP2	-5.32	1.15E-03
3971	ELP3	-3.77	7.47E-04
3972	ELP4	-4.41	2.86E-06
3973	EMB	-5.12	1.06E-03
3974	EMC1	-2.29	2.11E-02
3975	EMG1	-2.64	3.58E-03
3976	EMIUN2	-1.81	1.23E-02
3977	EML1	-1.66	1.74E-02
3978	EML4	-1.90	2.58E-03
3979	EMP2	-3.79	1.13E-03
3980	ENAH	-2.91	2.34E-04
3981	ENDOG	-1.43	6.11E-02
3982	ENDOV	-4.78	7.60E-05
3983	ENKUR	-7.27	3.12E-05
3984	ENO1	-7.37	7.68E-05
3985	ENO4	-4.70	1.31E-03
3986	ENOX2	-4.35	1.60E-04
3987	ENPP2	-3.68	5.02E-04
3988	ENPP4	-8.45	3.11E-05
3989	ENSA	-2.48	2.00E-03
3990	ENSGALT00000000053	-1.79	6.38E-02
3991	ENSGALT00000000076	-3.14	4.45E-03
3992	ENSGALT000000000113	-4.97	5.27E-04
3993	ENSGALT000000000129	-6.67	1.28E-04
3994	ENSGALT000000000145	-6.47	7.77E-05
3995	ENSGALT000000000159	-3.53	1.53E-03
3996	ENSGALT000000000234	-2.36	2.05E-02
3997	ENSGALT000000000252	-1.96	5.94E-03
3998	ENSGALT000000000296	-6.68	2.24E-04
3999	ENSGALT000000000338	-2.98	1.42E-03
4000	ENSGALT000000000355	-4.55	6.11E-04
4001	ENSGALT000000000385	-3.75	1.57E-04
4002	ENSGALT000000000388	-3.43	1.41E-03
4003	ENSGALT000000000417	-2.77	4.09E-03
4004	ENSGALT000000000502	-3.73	1.00E-03
4005	ENSGALT000000000505	-3.23	3.59E-04
4006	ENSGALT000000000522	-3.36	2.36E-03
4007	ENSGALT000000000552	-1.46	2.66E-03
4008	ENSGALT000000000596	-4.87	3.42E-03
4009	ENSGALT000000000616	-5.43	4.41E-04
4010	ENSGALT000000000626	-3.50	4.09E-05
4011	ENSGALT000000000678	-5.09	5.23E-05
4012	ENSGALT000000000679	-3.43	3.25E-03
4013	ENSGALT000000000797	-3.02	2.13E-03
4014	ENSGALT000000000841	-2.70	2.99E-03
4015	ENSGALT000000000890	-2.99	1.55E-03

4016	ENSGALT000000000920	-6.58	3.75E-03
4017	ENSGALT000000000970	-3.03	1.23E-02
4018	ENSGALT000000001010	-2.87	1.42E-03
4019	ENSGALT000000001059	-1.47	8.43E-03
4020	ENSGALT000000001087	-3.58	1.95E-04
4021	ENSGALT000000001127	-4.70	1.13E-05
4022	ENSGALT000000001302	-2.26	3.44E-05
4023	ENSGALT000000001466	-1.35	2.84E-03
4024	ENSGALT000000001593	-6.53	1.71E-03
4025	ENSGALT000000001678	-5.28	3.24E-05
4026	ENSGALT000000001801	-2.30	3.39E-04
4027	ENSGALT000000001885	-3.91	1.22E-04
4028	ENSGALT000000001925	-2.53	3.88E-04
4029	ENSGALT000000001982	-4.00	3.44E-04
4030	ENSGALT000000002005	-4.53	4.75E-04
4031	ENSGALT000000002034	-3.24	3.75E-03
4032	ENSGALT000000002155	-2.90	5.80E-03
4033	ENSGALT000000002299	-6.08	1.09E-05
4034	ENSGALT000000002410	-7.22	3.11E-04
4035	ENSGALT000000002439	-5.53	3.62E-05
4036	ENSGALT000000002562	-3.48	8.92E-04
4037	ENSGALT000000002612	-3.92	1.60E-03
4038	ENSGALT000000002661	-1.14	9.60E-03
4039	ENSGALT000000002758	-2.05	7.83E-03
4040	ENSGALT000000002759	-2.13	1.42E-02
4041	ENSGALT000000002763	-4.33	9.95E-05
4042	ENSGALT000000002781	-8.17	1.76E-04
4043	ENSGALT000000002785	-6.16	4.08E-04
4044	ENSGALT000000002789	-3.31	2.00E-02
4045	ENSGALT000000002870	-5.91	6.39E-05
4046	ENSGALT000000002880	-3.73	2.55E-04
4047	ENSGALT000000003212	-3.54	8.15E-05
4048	ENSGALT000000003426	-4.98	7.39E-03
4049	ENSGALT000000003481	-2.32	2.26E-02
4050	ENSGALT000000003569	-3.64	4.58E-05
4051	ENSGALT000000003611	-1.71	6.58E-02
4052	ENSGALT000000003620	-1.51	2.74E-02
4053	ENSGALT000000003676	-1.41	2.07E-02
4054	ENSGALT000000003682	-2.97	1.23E-03

4055	ENSGALT000000003688	-3.54	9.12E-04
4056	ENSGALT000000003720	-5.84	5.05E-03
4057	ENSGALT000000003739	-1.14	1.22E-02
4058	ENSGALT000000003778	-5.19	1.67E-03
4059	ENSGALT000000003831	-1.26	2.93E-02
4060	ENSGALT000000003959	-3.25	2.77E-03
4061	ENSGALT000000003960	-3.47	2.90E-03
4062	ENSGALT000000003983	-2.19	5.43E-03
4063	ENSGALT000000004194	-2.81	8.83E-03
4064	ENSGALT000000004266	-3.48	1.55E-03
4065	ENSGALT000000004283	-1.17	9.41E-03
4066	ENSGALT000000004308	-2.51	9.20E-03
4067	ENSGALT000000004323	-2.69	9.91E-05
4068	ENSGALT000000004366	-2.06	6.76E-04
4069	ENSGALT000000004380	-5.95	1.17E-04
4070	ENSGALT000000004394	-5.45	2.11E-03
4071	ENSGALT000000004410	-1.60	2.34E-02
4072	ENSGALT000000004517	-7.18	1.71E-03
4073	ENSGALT000000004526	-2.60	1.75E-02
4074	ENSGALT000000004533	-5.32	7.64E-04
4075	ENSGALT000000004545	-5.88	2.39E-04
4076	ENSGALT000000004546	-2.40	1.55E-03
4077	ENSGALT000000004668	-1.99	6.35E-02
4078	ENSGALT000000004712	-5.77	2.61E-04
4079	ENSGALT000000004713	-2.47	4.18E-03
4080	ENSGALT000000004810	-6.11	3.29E-04
4081	ENSGALT000000004814	-1.43	2.06E-02
4082	ENSGALT000000004817	-1.50	2.21E-03
4083	ENSGALT000000004870	-4.29	1.43E-03
4084	ENSGALT000000004872	-2.98	1.87E-03
4085	ENSGALT000000004875	-4.66	2.31E-03
4086	ENSGALT000000004909	-2.98	2.01E-03
4087	ENSGALT000000004978	-3.64	3.12E-03
4088	ENSGALT000000004989	-4.05	1.03E-03
4089	ENSGALT000000005016	-1.81	2.76E-03
4090	ENSGALT000000005087	-2.03	1.30E-03
4091	ENSGALT000000005096	-5.30	2.81E-03
4092	ENSGALT000000005121	-4.17	2.93E-04
4093	ENSGALT000000005160	-4.78	2.70E-03

4094	ENSGALT00000005208 3.07E-04	-4.28
4095	ENSGALT00000005216 5.18E-03	-3.51
4096	ENSGALT00000005228 3.65E-03	-3.04
4097	ENSGALT00000005259 5.74E-04	-7.20
4098	ENSGALT00000005278 5.69E-04	-2.86
4099	ENSGALT00000005286 6.78E-02	-1.65
4100	ENSGALT00000005305 5.98E-03	-1.77
4101	ENSGALT00000005427 1.92E-03	-4.88
4102	ENSGALT00000005448 2.30E-03	-3.65
4103	ENSGALT00000005451 1.47E-03	-2.62
4104	ENSGALT00000005458 3.92E-05	-7.07
4105	ENSGALT00000005471 1.44E-04	-6.86
4106	ENSGALT00000005480 8.54E-03	-4.45
4107	ENSGALT00000005488 1.49E-03	-3.75
4108	ENSGALT00000005549 1.67E-01	-1.61
4109	ENSGALT00000005602 2.41E-04	-5.19
4110	ENSGALT00000005620 7.00E-04	-3.63
4111	ENSGALT00000005629 1.25E-03	-1.97
4112	ENSGALT00000005683 7.18E-04	-2.75
4113	ENSGALT00000005691 1.38E-04	-6.26
4114	ENSGALT00000005700 1.83E-02	-5.32
4115	ENSGALT00000005708 1.48E-02	-2.05
4116	ENSGALT00000005733 2.45E-03	-4.39
4117	ENSGALT00000005741 1.13E-02	-2.89
4118	ENSGALT00000005810 5.86E-04	-2.08
4119	ENSGALT00000005815 9.86E-03	-2.18
4120	ENSGALT00000005822 3.85E-03	-2.56
4121	ENSGALT00000006001 3.53E-04	-2.94
4122	ENSGALT00000006070 2.12E-04	-5.90
4123	ENSGALT00000006088 1.40E-02	-1.50
4124	ENSGALT00000006159 1.90E-03	-3.00
4125	ENSGALT00000006223 1.54E-03	-4.25
4126	ENSGALT00000006290 1.04E-03	-4.33
4127	ENSGALT00000006360 1.04E-04	-4.75
4128	ENSGALT00000006408 1.69E-03	-1.79
4129	ENSGALT00000006419 6.86E-03	-2.60
4130	ENSGALT00000006430 5.31E-03	-2.68
4131	ENSGALT00000006504 6.14E-02	-1.15
4132	ENSGALT00000006557 3.64E-04	-6.19

4133	ENSGALT00000006634 6.96E-03	-2.42
4134	ENSGALT00000006738 8.66E-03	-2.22
4135	ENSGALT00000006741 6.58E-04	-7.56
4136	ENSGALT00000006755 5.49E-04	-7.29
4137	ENSGALT00000006770 1.37E-02	-1.16
4138	ENSGALT00000006789 2.58E-04	-5.17
4139	ENSGALT00000006996 3.53E-04	-2.89
4140	ENSGALT00000007036 2.27E-03	-3.33
4141	ENSGALT00000007043 2.76E-03	-3.21
4142	ENSGALT00000007055 1.24E-04	-5.34
4143	ENSGALT00000007068 2.48E-03	-3.28
4144	ENSGALT00000007158 1.35E-04	-6.46
4145	ENSGALT00000007164 2.28E-03	-1.69
4146	ENSGALT00000007176 5.57E-04	-2.12
4147	ENSGALT00000007178 1.62E-04	-4.99
4148	ENSGALT00000007245 1.11E-02	-1.22
4149	ENSGALT00000007342 6.64E-03	-2.97
4150	ENSGALT00000007349 1.35E-04	-3.52
4151	ENSGALT00000007438 1.56E-03	-2.37
4152	ENSGALT00000007481 2.15E-04	-4.72
4153	ENSGALT00000007511 2.75E-03	-1.65
4154	ENSGALT00000007571 2.08E-03	-4.10
4155	ENSGALT00000007601 7.79E-04	-1.48
4156	ENSGALT00000007624 3.72E-03	-2.26
4157	ENSGALT00000007787 1.60E-02	-1.43
4158	ENSGALT00000007790 5.90E-04	-5.29
4159	ENSGALT00000007793 1.68E-02	-3.27
4160	ENSGALT00000007806 7.09E-06	-1.77
4161	ENSGALT00000007854 4.03E-02	-1.34
4162	ENSGALT00000007941 2.71E-05	-7.54
4163	ENSGALT00000007970 1.61E-02	-1.72
4164	ENSGALT00000008076 2.36E-03	-1.31
4165	ENSGALT00000008187 1.02E-02	-1.25
4166	ENSGALT00000008219 7.35E-05	-4.31
4167	ENSGALT00000008225 1.30E-03	-2.36
4168	ENSGALT00000008337 4.03E-04	-1.23
4169	ENSGALT00000008376 4.20E-03	-1.44
4170	ENSGALT00000008386 6.24E-04	-5.58
4171	ENSGALT00000008482 2.47E-03	-2.59

4172	ENSGALT00000008627 1.28E-05	-2.95
4173	ENSGALT00000008677 3.22E-04	-8.03
4174	ENSGALT00000008690 6.95E-04	-2.10
4175	ENSGALT00000008816 3.09E-06	-7.48
4176	ENSGALT00000008821 2.86E-03	-2.34
4177	ENSGALT00000008822 2.03E-03	-3.86
4178	ENSGALT00000008851 1.66E-04	-7.09
4179	ENSGALT00000008872 2.95E-05	-3.77
4180	ENSGALT00000008873 1.16E-03	-1.59
4181	ENSGALT00000008888 1.15E-02	-1.61
4182	ENSGALT00000008901 5.43E-03	-2.43
4183	ENSGALT00000008953 5.55E-02	-2.05
4184	ENSGALT00000009018 2.17E-04	-4.36
4185	ENSGALT00000009049 9.67E-06	-3.87
4186	ENSGALT00000009067 7.20E-02	-1.56
4187	ENSGALT00000009092 5.32E-04	-5.26
4188	ENSGALT00000009112 7.25E-04	-5.85
4189	ENSGALT00000009122 3.09E-03	-3.55
4190	ENSGALT00000009152 2.09E-05	-5.87
4191	ENSGALT00000009174 4.01E-04	-2.36
4192	ENSGALT00000009209 7.59E-04	-7.91
4193	ENSGALT00000009283 1.30E-05	-6.30
4194	ENSGALT00000009292 3.65E-05	-5.09
4195	ENSGALT00000009358 3.12E-03	-4.39
4196	ENSGALT00000009363 7.75E-04	-3.98
4197	ENSGALT00000009435 2.68E-05	-7.30
4198	ENSGALT00000009484 5.31E-05	-4.52
4199	ENSGALT00000009519 1.88E-01	-1.49
4200	ENSGALT00000009595 3.14E-02	-1.73
4201	ENSGALT00000009600 3.33E-04	-8.34
4202	ENSGALT00000009669 3.02E-04	-2.15
4203	ENSGALT00000009670 3.22E-03	-2.79
4204	ENSGALT00000009734 1.79E-05	-3.77
4205	ENSGALT00000009765 7.68E-05	-6.82
4206	ENSGALT00000009804 5.10E-04	-4.87
4207	ENSGALT00000009829 2.13E-03	-1.54
4208	ENSGALT00000009875 2.85E-04	-3.45
4209	ENSGALT00000009958 2.73E-03	-6.11
4210	ENSGALT00000010020 1.54E-05	-7.27

4211	ENSGALT00000010062 1.01E-03	-3.21
4212	ENSGALT00000010115 9.35E-04	-3.38
4213	ENSGALT00000010150 2.53E-04	-4.56
4214	ENSGALT00000010171 1.96E-03	-4.38
4215	ENSGALT00000010207 2.61E-04	-6.52
4216	ENSGALT00000010228 7.64E-04	-5.93
4217	ENSGALT00000010235 5.20E-04	-7.63
4218	ENSGALT00000010237 1.13E-03	-5.09
4219	ENSGALT00000010291 1.26E-02	-1.93
4220	ENSGALT00000010322 2.43E-03	-3.27
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4222	ENSGALT00000010386 4.34E-04	-6.36
4223	ENSGALT00000010418 1.67E-02	-1.17
4224	ENSGALT00000010432 5.22E-03	-2.00
4225	ENSGALT00000010448 1.30E-04	-7.17
4226	ENSGALT00000010530 2.53E-03	-4.70
4227	ENSGALT00000010536 7.95E-02	-1.14
4228	ENSGALT00000010542 1.27E-04	-2.99
4229	ENSGALT00000010576 1.68E-04	-5.90
4230	ENSGALT00000010588 1.22E-03	-5.08
4231	ENSGALT00000010589 1.91E-04	-5.94
4232	ENSGALT00000010627 9.00E-03	-1.32
4233	ENSGALT00000010642 2.53E-03	-3.32
4234	ENSGALT00000010681 2.74E-03	-2.79
4235	ENSGALT00000010684 8.03E-04	-1.91
4236	ENSGALT00000010711 3.28E-03	-1.12
4237	ENSGALT00000010733 8.63E-04	-5.01
4238	ENSGALT00000010789 3.43E-04	-4.96
4239	ENSGALT00000010951 5.99E-03	-2.13
4240	ENSGALT00000010978 2.33E-02	-1.26
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4242	ENSGALT00000011207 7.70E-04	-2.31
4243	ENSGALT00000011211 3.78E-03	-3.36
4244	ENSGALT00000011225 2.85E-03	-3.04
4245	ENSGALT00000011235 2.41E-04	-6.36
4246	ENSGALT00000011237 2.92E-02	-1.96
4247	ENSGALT00000011292 1.09E-04	-6.14
4248	ENSGALT00000011493 3.37E-04	-5.72
4249	ENSGALT00000011495 1.19E-03	-6.03

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4252	ENSGALT00000011561 6.45E-03	-3.58
4253	ENSGALT00000011586 2.98E-04	-4.66
4254	ENSGALT00000011588 2.22E-04	-7.88
4255	ENSGALT00000011589 1.46E-03	-4.63
4256	ENSGALT00000011609 8.09E-03	-1.26
4257	ENSGALT00000011610 8.63E-03	-4.17
4258	ENSGALT00000011640 4.00E-04	-4.86
4259	ENSGALT00000011789 1.52E-03	-4.01
4260	ENSGALT00000011808 9.58E-04	-5.63
4261	ENSGALT00000011831 1.95E-02	-3.43
4262	ENSGALT00000011863 1.36E-04	-5.12
4263	ENSGALT00000011945 7.12E-04	-2.29
4264	ENSGALT00000011997 7.78E-04	-5.97
4265	ENSGALT00000012074 1.17E-03	-2.62
4266	ENSGALT00000012081 4.51E-04	-3.61
4267	ENSGALT00000012108 9.31E-03	-2.28
4268	ENSGALT00000012146 3.32E-04	-6.82
4269	ENSGALT00000012154 4.73E-03	-1.04
4270	ENSGALT00000012179 1.42E-03	-1.82
4271	ENSGALT00000012241 2.00E-03	-3.39
4272	ENSGALT00000012292 2.17E-02	-3.11
4273	ENSGALT00000012300 5.11E-04	-2.54
4274	ENSGALT00000012323 4.21E-04	-3.09
4275	ENSGALT00000012339 6.89E-03	-4.94
4276	ENSGALT00000012360 9.00E-03	-1.37
4277	ENSGALT00000012364 1.65E-01	-2.02
4278	ENSGALT00000012438 1.34E-03	-1.17
4279	ENSGALT00000012445 3.03E-04	-3.26
4280	ENSGALT00000012612 2.14E-03	-3.66
4281	ENSGALT00000012644 7.24E-03	-3.51
4282	ENSGALT00000012655 1.55E-03	-2.01
4283	ENSGALT00000012727 1.29E-03	-5.46
4284	ENSGALT00000012748 1.14E-02	-2.91
4285	ENSGALT00000012756 2.44E-03	-5.27
4286	ENSGALT00000012763 1.85E-02	-2.53
4287	ENSGALT00000012809 5.10E-03	-1.89
4288	ENSGALT00000012865 7.99E-03	-1.21

4289	ENSGALT00000012888 1.02E-03	-3.45
4290	ENSGALT00000013011 9.83E-03	-1.94
4291	ENSGALT00000013077 1.31E-03	-2.33
4292	ENSGALT00000013157 2.34E-04	-2.41
4293	ENSGALT00000013167 1.32E-03	-3.29
4294	ENSGALT00000013169 3.05E-03	-3.84
4295	ENSGALT00000013285 7.82E-04	-4.71
4296	ENSGALT00000013351 4.01E-03	-1.23
4297	ENSGALT00000013446 8.33E-05	-3.63
4298	ENSGALT00000013484 2.04E-03	-2.67
4299	ENSGALT00000013532 3.39E-03	-3.43
4300	ENSGALT00000013675 3.35E-02	-1.12
4301	ENSGALT00000013682 9.25E-04	-2.31
4302	ENSGALT00000013683 7.41E-03	-5.66
4303	ENSGALT00000013703 5.37E-04	-6.00
4304	ENSGALT00000013724 2.70E-03	-1.15
4305	ENSGALT00000013770 1.32E-02	-1.37
4306	ENSGALT00000013824 4.27E-04	-4.48
4307	ENSGALT00000013833 1.71E-03	-2.56
4308	ENSGALT00000013868 3.62E-03	-4.75
4309	ENSGALT00000013882 7.15E-04	-3.44
4310	ENSGALT00000013914 1.99E-03	-4.00
4311	ENSGALT00000014081 1.22E-03	-3.27
4312	ENSGALT00000014101 9.25E-04	-3.27
4313	ENSGALT00000014145 6.82E-06	-3.91
4314	ENSGALT00000014381 3.42E-04	-4.72
4315	ENSGALT00000014383 6.98E-03	-2.46
4316	ENSGALT00000014479 9.50E-04	-4.70
4317	ENSGALT00000014487 1.28E-03	-1.32
4318	ENSGALT00000014506 1.86E-02	-3.85
4319	ENSGALT00000014545 8.07E-04	-4.44
4320	ENSGALT00000014574 1.35E-05	-4.17
4321	ENSGALT00000014592 8.77E-04	-6.32
4322	ENSGALT00000014608 6.35E-03	-2.86
4323	ENSGALT00000014614 2.18E-04	-4.55
4324	ENSGALT00000014632 4.56E-05	-7.54
4325	ENSGALT00000014766 6.52E-04	-7.73
4326	ENSGALT00000014840 2.48E-04	-2.79
4327	ENSGALT00000014845 3.67E-04	-4.36

4328	ENSGALT00000014852 1.10E-02	-2.55
4329	ENSGALT00000014910 2.57E-03	-3.64
4330	ENSGALT00000015018 1.55E-02	-3.48
4331	ENSGALT00000015026 1.49E-02	-1.27
4332	ENSGALT00000015161 8.25E-03	-5.08
4333	ENSGALT00000015199 6.03E-03	-6.45
4334	ENSGALT00000015265 2.24E-03	-5.71
4335	ENSGALT00000015314 1.69E-03	-5.33
4336	ENSGALT00000015333 5.50E-03	-2.10
4337	ENSGALT00000015359 1.42E-03	-4.35
4338	ENSGALT00000015496 5.11E-03	-2.47
4339	ENSGALT00000015530 7.42E-05	-1.67
4340	ENSGALT00000015535 6.83E-04	-1.78
4341	ENSGALT00000015561 4.98E-04	-5.92
4342	ENSGALT00000015575 1.74E-05	-4.08
4343	ENSGALT00000015662 3.15E-03	-3.83
4344	ENSGALT00000015675 1.35E-03	-1.07
4345	ENSGALT00000015676 2.39E-03	-3.19
4346	ENSGALT00000015752 1.82E-04	-4.06
4347	ENSGALT00000015761 2.96E-03	-3.15
4348	ENSGALT00000015764 8.98E-04	-2.23
4349	ENSGALT00000015782 1.05E-03	-4.20
4350	ENSGALT00000015796 4.03E-03	-1.72
4351	ENSGALT00000015806 4.58E-06	-4.66
4352	ENSGALT00000015851 6.83E-05	-7.06
4353	ENSGALT00000015965 2.34E-02	-2.21
4354	ENSGALT00000015972 6.15E-04	-5.38
4355	ENSGALT00000016123 1.33E-03	-2.68
4356	ENSGALT00000016159 1.68E-02	-1.97
4357	ENSGALT00000016328 6.24E-04	-1.57
4358	ENSGALT00000016350 3.81E-03	-2.66
4359	ENSGALT00000016352 1.80E-03	-3.86
4360	ENSGALT00000016356 1.25E-03	-2.41
4361	ENSGALT00000016414 1.86E-04	-5.20
4362	ENSGALT00000016453 2.27E-03	-5.01
4363	ENSGALT00000016562 2.27E-04	-3.23
4364	ENSGALT00000016572 1.39E-02	-3.33
4365	ENSGALT00000016926 3.08E-03	-2.85
4366	ENSGALT00000016936 3.64E-03	-4.88

4367	ENSGALT00000016952 6.83E-03	-1.32
4368	ENSGALT00000017008 1.31E-03	-2.31
4369	ENSGALT00000017125 1.61E-03	-4.18
4370	ENSGALT00000017131 2.54E-02	-1.97
4371	ENSGALT00000017148 7.97E-04	-3.93
4372	ENSGALT00000017162 1.66E-04	-4.82
4373	ENSGALT00000017186 5.30E-03	-1.83
4374	ENSGALT00000017187 4.53E-03	-1.53
4375	ENSGALT00000017257 1.02E-03	-4.10
4376	ENSGALT00000017329 2.08E-02	-2.74
4377	ENSGALT00000017346 5.17E-03	-2.15
4378	ENSGALT00000017499 4.30E-04	-4.12
4379	ENSGALT00000017510 1.42E-03	-7.88
4380	ENSGALT00000017545 2.95E-04	-4.22
4381	ENSGALT00000017549 6.17E-04	-6.92
4382	ENSGALT00000017586 3.52E-03	-2.28
4383	ENSGALT00000017594 4.26E-03	-3.20
4384	ENSGALT00000017618 6.95E-04	-2.07
4385	ENSGALT00000017760 3.19E-04	-3.01
4386	ENSGALT00000017886 1.46E-03	-2.09
4387	ENSGALT00000017892 3.68E-02	-1.32
4388	ENSGALT00000017897 1.33E-03	-5.72
4389	ENSGALT00000017916 5.85E-03	-3.08
4390	ENSGALT00000018018 3.78E-04	-3.46
4391	ENSGALT00000018029 1.58E-03	-1.51
4392	ENSGALT00000018063 1.62E-05	-3.14
4393	ENSGALT00000018250 1.04E-03	-5.75
4394	ENSGALT00000018253 2.73E-03	-3.06
4395	ENSGALT00000018455 2.07E-03	-3.45
4396	ENSGALT00000018474 4.93E-03	-1.90
4397	ENSGALT00000018539 4.54E-03	-4.11
4398	ENSGALT00000018548 6.53E-04	-4.33
4399	ENSGALT00000018584 2.68E-04	-3.31
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4401	ENSGALT00000018638 1.06E-03	-2.96
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4403	ENSGALT00000018685 3.34E-03	-2.20
4404	ENSGALT00000018700 7.12E-03	-1.40
4405	ENSGALT00000018701 1.38E-03	-5.78

4406	ENSGALT00000018879 6.60E-04	-7.23
4407	ENSGALT00000018981 1.89E-02	-1.44
4408	ENSGALT00000018997 1.70E-04	-3.99
4409	ENSGALT00000019023 8.21E-04	-3.84
4410	ENSGALT00000019030 6.30E-04	-7.26
4411	ENSGALT00000019190 3.38E-02	-1.90
4412	ENSGALT00000019277 7.59E-04	-5.21
4413	ENSGALT00000019339 1.07E-04	-5.75
4414	ENSGALT00000019385 2.07E-04	-7.08
4415	ENSGALT00000019429 7.75E-03	-1.77
4416	ENSGALT00000019431 4.52E-04	-5.39
4417	ENSGALT00000019558 2.26E-04	-2.10
4418	ENSGALT00000019682 6.86E-03	-1.24
4419	ENSGALT00000019873 4.40E-02	-1.41
4420	ENSGALT00000019911 8.32E-04	-4.68
4421	ENSGALT00000019979 7.48E-04	-6.41
4422	ENSGALT00000020008 5.97E-03	-1.50
4423	ENSGALT00000020010 1.50E-04	-7.66
4424	ENSGALT00000020016 3.18E-02	-1.43
4425	ENSGALT00000020032 4.16E-04	-6.38
4426	ENSGALT00000020176 2.99E-05	-6.87
4427	ENSGALT00000020359 1.92E-05	-3.31
4428	ENSGALT00000020410 5.10E-03	-1.75
4429	ENSGALT00000020434 7.63E-03	-3.73
4430	ENSGALT00000020442 2.58E-03	-2.06
4431	ENSGALT00000020539 3.07E-03	-3.40
4432	ENSGALT00000020877 3.40E-04	-6.60
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4434	ENSGALT00000021128 7.17E-03	-1.47
4435	ENSGALT00000021143 8.34E-04	-4.38
4436	ENSGALT00000021246 1.89E-03	-1.73
4437	ENSGALT00000021306 1.19E-03	-2.29
4438	ENSGALT00000021367 5.55E-03	-3.20
4439	ENSGALT00000021438 2.79E-04	-2.64
4440	ENSGALT00000021448 4.25E-04	-2.20
4441	ENSGALT00000021457 4.16E-03	-2.60
4442	ENSGALT00000021535 2.08E-03	-6.27
4443	ENSGALT00000021541 1.24E-03	-2.11
4444	ENSGALT00000021576 1.83E-03	-4.18

4445	ENSGALT000000021577 3.70E-03	-5.20
4446	ENSGALT000000021605 2.71E-04	-3.52
4447	ENSGALT000000021705 1.13E-03	-6.10
4448	ENSGALT000000021796 4.71E-03	-3.99
4449	ENSGALT000000021843 4.27E-03	-3.10
4450	ENSGALT000000021846 2.70E-02	-3.30
4451	ENSGALT000000021875 2.05E-03	-4.69
4452	ENSGALT000000021922 1.64E-04	-2.44
4453	ENSGALT000000021947 6.17E-04	-2.11
4454	ENSGALT000000021967 3.21E-03	-1.36
4455	ENSGALT000000021988 1.71E-03	-1.28
4456	ENSGALT000000022068 1.49E-03	-3.96
4457	ENSGALT000000022123 5.60E-04	-4.13
4458	ENSGALT000000022162 1.63E-05	-5.18
4459	ENSGALT000000022311 9.18E-04	-3.59
4460	ENSGALT000000022351 3.90E-04	-8.12
4461	ENSGALT000000022378 8.21E-04	-4.18
4462	ENSGALT000000022437 1.07E-03	-6.23
4463	ENSGALT000000022454 1.24E-02	-1.82
4464	ENSGALT000000022468 1.51E-02	-1.10
4465	ENSGALT000000022477 2.40E-03	-3.35
4466	ENSGALT000000022479 2.46E-04	-4.21
4467	ENSGALT000000022497 4.42E-04	-4.09
4468	ENSGALT000000022498 1.22E-02	-1.42
4469	ENSGALT000000022503 2.79E-03	-4.95
4470	ENSGALT000000022532 3.24E-02	-2.26
4471	ENSGALT000000022540 5.23E-03	-1.53
4472	ENSGALT000000022584 8.67E-03	-1.90
4473	ENSGALT000000022585 7.45E-04	-4.44
4474	ENSGALT000000022607 2.43E-04	-5.31
4475	ENSGALT000000022610 4.98E-03	-1.86
4476	ENSGALT000000022647 4.05E-03	-2.12
4477	ENSGALT000000022686 1.76E-04	-3.97
4478	ENSGALT000000022732 5.66E-04	-3.22
4479	ENSGALT000000022745 6.50E-04	-4.56
4480	ENSGALT000000022768 5.25E-04	-5.37
4481	ENSGALT000000022773 2.62E-03	-6.26
4482	ENSGALT000000022794 2.56E-03	-1.72
4483	ENSGALT000000022810 1.24E-02	-1.75

4484	ENSGALT000000022828 1.46E-02	-3.74
4485	ENSGALT000000022847 1.64E-03	-1.54
4486	ENSGALT000000022855 2.42E-04	-6.31
4487	ENSGALT000000022884 3.21E-02	-1.36
4488	ENSGALT000000022893 2.32E-02	-1.87
4489	ENSGALT000000022896 2.80E-03	-2.95
4490	ENSGALT000000022916 4.69E-04	-4.16
4491	ENSGALT000000023031 3.98E-03	-1.32
4492	ENSGALT000000023032 5.42E-04	-4.77
4493	ENSGALT000000023052 6.50E-04	-2.38
4494	ENSGALT000000023056 7.68E-04	-4.50
4495	ENSGALT000000023057 1.71E-03	-2.37
4496	ENSGALT000000023081 6.53E-03	-1.56
4497	ENSGALT000000023123 1.97E-02	-3.41
4498	ENSGALT000000023134 3.27E-04	-5.75
4499	ENSGALT000000023152 1.71E-04	-6.28
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4501	ENSGALT000000023186 1.18E-02	-2.76
4502	ENSGALT000000023194 1.76E-03	-4.72
4503	ENSGALT000000023197 7.13E-04	-2.35
4504	ENSGALT000000023206 3.20E-03	-2.75
4505	ENSGALT000000023217 1.28E-03	-4.19
4506	ENSGALT000000023240 1.38E-02	-1.41
4507	ENSGALT000000023256 2.51E-02	-1.27
4508	ENSGALT000000023302 3.35E-03	-3.95
4509	ENSGALT000000023342 3.51E-03	-3.11
4510	ENSGALT000000023364 2.57E-03	-4.61
4511	ENSGALT000000023372 7.47E-03	-3.07
4512	ENSGALT000000023374 4.00E-03	-1.98
4513	ENSGALT000000023376 3.35E-03	-1.69
4514	ENSGALT000000023425 1.88E-04	-7.89
4515	ENSGALT000000023436 6.83E-05	-5.52
4516	ENSGALT000000023458 5.62E-03	-2.38
4517	ENSGALT000000023480 3.73E-04	-4.32
4518	ENSGALT000000023489 2.71E-03	-1.64
4519	ENSGALT000000023514 8.15E-05	-6.09
4520	ENSGALT000000023554 1.02E-03	-5.05
4521	ENSGALT000000023634 4.81E-03	-2.15
4522	ENSGALT000000023636 6.65E-04	-4.34

4523	ENSGALT000000023640 1.31E-03	-2.02
4524	ENSGALT000000023745 2.93E-02	-1.34
4525	ENSGALT000000023839 1.92E-03	-3.51
4526	ENSGALT000000023847 5.29E-05	-5.62
4527	ENSGALT000000023851 4.56E-03	-1.26
4528	ENSGALT000000023876 1.32E-02	-3.07
4529	ENSGALT000000023898 3.40E-05	-4.77
4530	ENSGALT000000023923 6.42E-04	-3.46
4531	ENSGALT000000023925 4.52E-04	-5.03
4532	ENSGALT000000023926 1.06E-03	-3.27
4533	ENSGALT000000024008 3.75E-02	-1.52
4534	ENSGALT000000024014 9.87E-04	-3.12
4535	ENSGALT000000024023 8.94E-04	-4.86
4536	ENSGALT000000024062 3.42E-04	-3.51
4537	ENSGALT000000024072 2.20E-03	-2.69
4538	ENSGALT000000024101 2.20E-02	-1.28
4539	ENSGALT000000024368 5.94E-05	-2.78
4540	ENSGALT000000024483 5.06E-05	-3.71
4541	ENSGALT000000024577 1.26E-04	-6.61
4542	ENSGALT000000024580 3.71E-04	-3.20
4543	ENSGALT000000024606 1.57E-03	-1.24
4544	ENSGALT000000024666 2.41E-03	-7.94
4545	ENSGALT000000024733 3.80E-03	-5.26
4546	ENSGALT000000024752 5.27E-04	-1.68
4547	ENSGALT000000024828 6.40E-04	-5.28
4548	ENSGALT000000024885 1.00E-02	-1.10
4549	ENSGALT000000024895 5.53E-04	-5.16
4550	ENSGALT000000024919 7.81E-02	-1.34
4551	ENSGALT000000024965 2.19E-02	-3.03
4552	ENSGALT000000024992 2.08E-01	-1.03
4553	ENSGALT000000025043 1.17E-04	-8.57
4554	ENSGALT000000025166 2.88E-02	-1.59
4555	ENSGALT000000025170 1.21E-02	-1.87
4556	ENSGALT000000025192 1.21E-04	-4.99
4557	ENSGALT000000025254 5.32E-05	-5.23
4558	ENSGALT000000025344 3.86E-03	-3.27
4559	ENSGALT000000025396 4.09E-02	-1.98
4560	ENSGALT000000025439 1.50E-03	-3.00
4561	ENSGALT000000025452 1.24E-04	-6.68

4562	ENSGALT00000025550 1.64E-03	-5.25
4563	ENSGALT00000025716 7.34E-03	-2.42
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4569	ENSGALT00000025829 5.85E-03	-2.60
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4571	ENSGALT00000025840 2.78E-05	-5.48
4572	ENSGALT00000025842 8.55E-04	-5.93
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4576	ENSGALT00000025976 3.61E-04	-6.54
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4579	ENSGALT00000026039 5.76E-03	-3.63
4580	ENSGALT00000026078 1.06E-03	-5.29
4581	ENSGALT00000026119 5.47E-04	-3.90
4582	ENSGALT00000026211 3.63E-04	-2.54
4583	ENSGALT00000026231 2.36E-03	-2.38
4584	ENSGALT00000026251 1.57E-03	-5.86
4585	ENSGALT00000026267 2.89E-03	-3.38
4586	ENSGALT00000026454 1.38E-04	-3.34
4587	ENSGALT00000026483 7.76E-04	-4.82
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4590	ENSGALT00000026662 9.04E-04	-6.54
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4592	ENSGALT00000026810 3.18E-02	-1.75
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4594	ENSGALT00000026863 2.84E-04	-3.36
4595	ENSGALT00000026884 7.74E-03	-2.31
4596	ENSGALT00000026953 3.78E-03	-2.13
4597	ENSGALT00000026965 5.25E-03	-3.48
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4599	ENSGALT00000027008 5.30E-04	-2.78
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4602	ENSGALT00000027054 3.99E-03	-2.67
4603	ENSGALT00000027092 2.87E-03	-1.40
4604	ENSGALT00000027144 4.13E-02	-1.30
4605	ENSGALT00000027361 1.45E-02	-2.67
4606	ENSGALT00000027363 1.02E-02	-1.71
4607	ENSGALT00000027411 1.62E-02	-1.52
4608	ENSGALT00000027451 2.61E-02	-2.95
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4611	ENSGALT00000027506 8.05E-04	-1.50
4612	ENSGALT00000027544 1.68E-04	-5.42
4613	ENSGALT00000027601 1.30E-03	-2.17
4614	ENSGALT00000027694 1.76E-03	-3.65
4615	ENSGALT00000027711 2.97E-04	-3.40
4616	ENSGALT00000027794 5.30E-03	-1.56
4617	ENSGALT00000027840 6.10E-04	-8.97
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4621	ENSGALT00000027945 1.26E-04	-5.83
4622	ENSGALT00000027948 5.92E-04	-2.54
4623	ENSGALT00000027971 5.63E-04	-4.63
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4625	ENSGALT00000028050 9.64E-04	-5.36
4626	ENSGALT00000028227 1.76E-04	-4.93
4627	ENSGALT00000028305 1.03E-04	-6.42
4628	ENSGALT00000028395 4.48E-03	-1.82
4629	ENSGALT00000029228 4.98E-04	-3.02
4630	ENSGALT00000029296 2.31E-03	-4.52
4631	ENSGALT00000029359 5.13E-05	-4.57
4632	ENSGALT00000029361 1.16E-04	-5.05
4633	ENSGALT00000029382 2.29E-04	-2.43
4634	ENSGALT00000029394 2.98E-04	-4.46
4635	ENSGALT00000029529 8.86E-04	-3.68
4636	ENSGALT00000029552 1.43E-02	-2.07
4637	ENSGALT00000029577 1.24E-02	-1.72
4638	ENSGALT00000029613 4.16E-03	-1.37
4639	ENSGALT00000029629 1.87E-03	-4.35

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4642	ENSGALT00000029709 1.32E-03	-1.48
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4644	ENSGALT00000029737 1.20E-02	-2.25
4645	ENSGALT00000029744 1.87E-02	-1.89
4646	ENSGALT00000029763 3.64E-03	-2.28
4647	ENSGALT00000029798 6.60E-04	-3.49
4648	ENSGALT00000029816 2.13E-03	-4.07
4649	ENSGALT00000029869 1.27E-02	-2.21
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4651	ENSGALT00000030060 4.30E-05	-7.31
4652	ENSGALT00000030134 1.59E-03	-3.70
4653	ENSGALT00000030281 1.22E-03	-5.65
4654	ENSGALT00000030391 1.80E-03	-1.98
4655	ENSGALT00000030462 1.88E-04	-6.06
4656	ENSGALT00000030545 4.53E-03	-2.06
4657	ENSGALT00000030615 3.30E-02	-1.13
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4659	ENSGALT00000030669 1.16E-02	-2.44
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4661	ENSGALT00000030823 1.03E-03	-5.87
4662	ENSGALT00000030914 1.69E-03	-1.92
4663	ENSGALT00000030948 2.88E-04	-4.11
4664	ENSGALT00000030959 3.72E-02	-1.80
4665	ENSGALT00000030981 1.18E-02	-2.63
4666	ENSGALT00000031123 4.88E-03	-1.63
4667	ENSGALT00000031143 4.54E-04	-5.09
4668	ENSGALT00000031165 8.14E-03	-2.72
4669	ENSGALT00000031192 8.57E-04	-7.54
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4673	ENSGALT00000031469 1.67E-02	-1.64
4674	ENSGALT00000031486 2.65E-02	-1.12
4675	ENSGALT00000031552 1.22E-02	-1.18
4676	ENSGALT00000031553 2.28E-02	-1.55
4677	ENSGALT00000031708 6.07E-04	-5.43
4678	ENSGALT00000031915 1.26E-03	-4.29

4679	ENSGALT00000031916 1.34E-04	-7.65
4680	ENSGALT00000031940 2.54E-02	-1.55
4681	ENSGALT00000031955 3.92E-02	-1.76
4682	ENSGALT00000031956 3.24E-03	-6.40
4683	ENSGALT00000031996 1.79E-03	-4.53
4684	ENSGALT00000032023 6.85E-04	-6.85
4685	ENSGALT00000032091 1.99E-04	-5.23
4686	ENSGALT00000032098 1.63E-02	-1.83
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4690	ENSGALT00000032339 3.62E-04	-4.72
4691	ENSGALT00000032350 7.15E-02	-1.48
4692	ENSGALT00000032365 6.47E-03	-4.23
4693	ENSGALT00000032438 1.07E-02	-5.33
4694	ENSGALT00000032505 2.48E-03	-2.36
4695	ENSGALT00000032561 2.27E-03	-4.42
4696	ENSGALT00000032563 2.70E-03	-4.36
4697	ENSGALT00000032826 4.36E-04	-3.61
4698	ENSGALT00000032827 4.55E-03	-3.25
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4701	ENSGALT00000032906 2.72E-02	-2.50
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4703	ENSGALT00000033142 7.65E-04	-2.60
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4706	ENSGALT00000033325 1.06E-03	-3.13
4707	ENSGALT00000033479 4.10E-04	-8.98
4708	ENSGALT00000033571 1.03E-02	-1.68
4709	ENSGALT00000033572 2.97E-04	-5.13
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4711	ENSGALT00000033596 1.07E-02	-3.01
4712	ENSGALT00000033705 1.28E-03	-2.79
4713	ENSGALT00000033787 9.90E-05	-8.20
4714	ENSGALT00000033804 2.35E-04	-5.63
4715	ENSGALT00000033814 9.75E-04	-3.59
4716	ENSGALT00000033820 1.23E-02	-3.19
4717	ENSGALT00000033882 2.10E-03	-6.96

4718	ENSGALT00000033912 1.42E-02	-5.02
4719	ENSGALT00000034014 2.05E-04	-5.25
4720	ENSGALT00000034019 4.64E-05	-5.45
4721	ENSGALT00000034023 1.11E-01	-2.08
4722	ENSGALT00000034037 2.45E-01	-1.28
4723	ENSGALT00000034065 8.75E-05	-6.28
4724	ENSGALT00000034107 2.16E-04	-6.00
4725	ENSGALT00000034148 5.81E-06	-6.53
4726	ENSGALT00000034280 2.10E-03	-2.20
4727	ENSGALT00000034311 4.63E-04	-6.27
4728	ENSGALT00000034312 1.32E-02	-3.74
4729	ENSGALT00000034313 1.38E-02	-4.08
4730	ENSGALT00000034377 2.66E-03	-5.35
4731	ENSGALT00000034384 4.03E-03	-2.61
4732	ENSGALT00000034401 2.53E-03	-2.01
4733	ENSGALT00000034423 4.11E-03	-2.51
4734	ENSGALT00000034442 6.11E-05	-7.04
4735	ENSGALT00000034473 2.23E-03	-2.07
4736	ENSGALT00000034549 2.28E-02	-1.34
4737	ENSGALT00000034557 3.47E-03	-2.81
4738	ENSGALT00000034587 3.38E-04	-4.41
4739	ENSGALT00000034819 1.84E-04	-5.95
4740	ENSGALT00000034881 1.47E-03	-4.77
4741	ENSGALT00000034912 2.13E-03	-1.90
4742	ENSGALT00000035098 3.05E-02	-1.64
4743	ENSGALT00000035294 1.44E-02	-2.52
4744	ENSGALT00000035353 1.05E-02	-1.55
4745	ENSGALT00000035355 4.86E-03	-4.74
4746	ENSGALT00000035364 4.64E-04	-7.49
4747	ENSGALT00000035369 4.46E-03	-4.60
4748	ENSGALT00000035375 1.05E-02	-2.40
4749	ENSGALT00000035378 1.03E-02	-2.70
4750	ENSGALT00000035404 1.54E-03	-3.91
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4752	ENSGALT00000035429 2.88E-03	-2.83
4753	ENSGALT00000035431 7.37E-05	-4.35
4754	ENSGALT00000035433 3.92E-03	-3.70
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4756	ENSGALT00000035443 8.87E-04	-3.43

4757	ENSGALT00000035493 1.25E-02	-2.65
4758	ENSGALT00000035572 1.72E-02	-1.68
4759	ENSGALT00000035573 1.69E-03	-3.47
4760	ENSGALT00000035621 2.62E-03	-7.10
4761	ENSGALT00000035653 1.04E-02	-1.47
4762	ENSGALT00000035666 3.12E-02	-1.50
4763	ENSGALT00000035677 3.62E-03	-1.72
4764	ENSGALT00000035697 1.87E-02	-1.71
4765	ENSGALT00000035703 5.30E-04	-1.37
4766	ENSGALT00000035712 1.50E-03	-7.35
4767	ENSGALT00000035726 2.12E-05	-8.65
4768	ENSGALT00000035730 2.02E-02	-1.16
4769	ENSGALT00000035742 5.18E-04	-4.31
4770	ENSGALT00000035764 5.42E-03	-1.46
4771	ENSGALT00000035780 3.99E-03	-3.83
4772	ENSGALT00000035786 1.23E-02	-1.31
4773	ENSGALT00000035822 2.43E-02	-1.17
4774	ENSGALT00000035893 5.50E-04	-6.91
4775	ENSGALT00000035955 4.63E-05	-7.09
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4777	ENSGALT00000036002 8.48E-04	-1.57
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4779	ENSGALT00000036076 3.44E-03	-4.81
4780	ENSGALT00000036121 3.05E-03	-2.13
4781	ENSGALT00000036129 6.58E-02	-1.32
4782	ENSGALT00000036153 1.76E-03	-2.53
4783	ENSGALT00000036196 1.47E-03	-1.44
4784	ENSGALT00000036227 3.49E-02	-1.46
4785	ENSGALT00000036267 1.70E-04	-6.59
4786	ENSGALT00000036273 9.87E-03	-1.45
4787	ENSGALT00000036276 4.42E-02	-2.45
4788	ENSGALT00000036278 4.68E-03	-2.16
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4790	ENSGALT00000036352 1.74E-03	-6.57
4791	ENSGALT00000036398 2.07E-03	-2.16
4792	ENSGALT00000036407 1.04E-02	-3.42
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4794	ENSGALT00000036444 7.43E-04	-9.25
4795	ENSGALT00000036513 6.24E-03	-2.05

4796	ENSGALT00000036521 1.28E-03	-1.18
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4798	ENSGALT00000036568 9.74E-05	-5.03
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4803	ENSGALT00000036658 2.35E-04	-2.86
4804	ENSGALT00000036676 1.67E-03	-4.11
4805	ENSGALT00000036685 2.66E-02	-1.53
4806	ENSGALT00000036688 9.37E-04	-4.06
4807	ENSGALT00000036729 6.36E-03	-2.06
4808	ENSGALT00000036731 2.68E-03	-1.85
4809	ENSGALT00000036734 4.01E-03	-1.58
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4812	ENSGALT00000036788 8.00E-06	-7.52
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4815	ENSGALT00000036897 1.40E-03	-3.87
4816	ENSGALT00000036899 7.21E-04	-3.33
4817	ENSGALT00000036912 8.56E-03	-2.03
4818	ENSGALT00000036918 6.30E-03	-2.58
4819	ENSGALT00000036939 1.21E-03	-1.26
4820	ENSGALT00000036943 6.48E-01	-2.17
4821	ENSGALT00000036945 2.68E-03	-4.07
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4823	ENSGALT00000036966 6.08E-02	-2.59
4824	ENSGALT00000037099 6.08E-03	-2.03
4825	ENSGALT00000037100 2.90E-02	-1.59
4826	ENSGALT00000037178 3.67E-03	-1.64
4827	ENSGALT00000037199 7.60E-03	-2.45
4828	ENSGALT00000037242 3.26E-02	-1.39
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4830	ENSGALT00000037285 1.84E-04	-6.92
4831	ENSGALT00000037310 4.66E-03	-3.93
4832	ENSGALT00000037321 3.15E-03	-1.17
4833	ENSGALT00000037360 1.42E-03	-3.50
4834	ENSGALT00000037363 1.25E-03	-3.22

4835	ENSGALT00000037388 9.51E-03	-1.31
4836	ENSGALT00000037420 3.43E-02	-1.35
4837	ENSGALT00000037421 2.91E-02	-1.22
4838	ENSGALT00000037423 3.60E-03	-3.53
4839	ENSGALT00000037444 2.52E-02	-2.11
4840	ENSGALT00000037512 3.04E-04	-4.93
4841	ENSGALT00000037514 2.95E-02	-1.23
4842	ENSGALT00000037541 1.39E-02	-1.63
4843	ENSGALT00000037579 1.41E-03	-4.08
4844	ENSGALT00000037580 6.83E-03	-1.37
4845	ENSGALT00000037616 1.22E-03	-3.62
4846	ENSGALT00000037637 2.58E-03	-2.69
4847	ENSGALT00000037641 1.44E-03	-4.06
4848	ENSGALT00000037644 4.43E-04	-3.74
4849	ENSGALT00000037665 2.21E-03	-3.70
4850	ENSGALT00000037711 2.63E-04	-3.08
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4852	ENSGALT00000037717 9.39E-04	-3.63
4853	ENSGALT00000037742 2.75E-04	-2.92
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4856	ENSGALT00000037783 2.64E-04	-5.11
4857	ENSGALT00000037784 1.20E-03	-2.59
4858	ENSGALT00000037789 2.95E-03	-1.81
4859	ENSGALT00000037839 9.18E-02	-1.27
4860	ENSGALT00000037856 1.06E-02	-1.46
4861	ENSGALT00000037871 4.60E-04	-6.61
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4863	ENSGALT00000037985 2.03E-03	-2.25
4864	ENSGALT00000037995 1.26E-01	-2.34
4865	ENSGALT00000038028 1.57E-02	-1.89
4866	ENSGALT00000038124 1.72E-03	-7.64
4867	ENSGALT00000038166 2.55E-04	-2.89
4868	ENSGALT00000038177 1.64E-04	-5.88
4869	ENSGALT00000038226 1.39E-02	-2.59
4870	ENSGALT00000038278 1.23E-03	-4.54
4871	ENSGALT00000038279 3.83E-04	-6.72
4872	ENSGALT00000038290 1.38E-04	-8.23
4873	ENSGALT00000038297 1.18E-03	-7.23

4874	ENSGALT00000038318 4.40E-03	-3.03
4875	ENSGALT00000038319 2.85E-03	-2.47
4876	ENSGALT00000038326 2.35E-02	-1.72
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4878	ENSGALT00000038364 5.64E-03	-3.86
4879	ENSGALT00000038365 7.95E-03	-3.67
4880	ENSGALT00000038375 2.53E-02	-1.93
4881	ENSGALT00000038413 1.41E-03	-3.82
4882	ENSGALT00000038441 1.31E-02	-1.86
4883	ENSGALT00000038453 1.06E-02	-2.56
4884	ENSGALT00000038455 1.77E-03	-4.15
4885	ENSGALT00000038486 1.61E-03	-6.11
4886	ENSGALT00000038514 5.81E-03	-1.03
4887	ENSGALT00000038525 2.57E-01	-1.20
4888	ENSGALT00000038597 1.42E-02	-1.53
4889	ENSGALT00000038600 2.44E-03	-2.63
4890	ENSGALT00000038602 8.81E-04	-2.96
4891	ENSGALT00000038613 1.64E-03	-4.42
4892	ENSGALT00000038631 2.30E-04	-5.17
4893	ENSGALT00000038643 3.51E-02	-2.04
4894	ENSGALT00000038655 6.74E-01	-1.61
4895	ENSGALT00000038678 1.05E-03	-1.22
4896	ENSGALT00000038693 2.63E-03	-4.50
4897	ENSGALT00000038739 1.99E-04	-5.68
4898	ENSGALT00000038785 1.05E-03	-2.28
4899	ENSGALT00000038814 1.11E-04	-2.28
4900	ENSGALT00000038832 1.31E-03	-2.91
4901	ENSGALT00000038851 5.11E-03	-1.84
4902	ENSGALT00000038859 3.65E-03	-1.93
4903	ENSGALT00000038868 2.28E-03	-4.22
4904	ENSGALT00000038870 1.01E-04	-4.63
4905	ENSGALT00000038873 1.01E-03	-5.97
4906	ENSGALT00000038915 7.01E-03	-4.76
4907	ENSGALT00000038945 5.46E-05	-6.79
4908	ENSGALT00000038948 6.93E-04	-5.39
4909	ENSGALT00000038958 6.21E-03	-2.21
4910	ENSGALT00000038970 3.43E-03	-1.05
4911	ENSGALT00000039021 5.24E-04	-5.73
4912	ENSGALT00000039024 4.28E-03	-3.30

4913	ENSGALT00000039025 6.66E-03	-1.75
4914	ENSGALT00000039044 6.17E-03	-2.52
4915	ENSGALT00000039073 2.56E-04	-4.42
4916	ENSGALT00000039131 6.33E-03	-1.71
4917	ENSGALT00000039135 1.21E-02	-1.25
4918	ENSGALT00000039149 2.16E-04	-5.56
4919	ENSGALT00000039151 2.32E-02	-1.39
4920	ENSGALT00000039152 1.86E-02	-2.66
4921	ENSGALT00000039154 1.31E-03	-2.10
4922	ENSGALT00000039169 7.85E-06	-5.90
4923	ENSGALT00000039177 4.46E-03	-4.00
4924	ENSGALT00000039187 5.88E-03	-2.66
4925	ENSGALT00000039205 3.70E-02	-1.16
4926	ENSGALT00000039217 3.44E-04	-4.41
4927	ENSGALT00000039223 1.07E-03	-3.99
4928	ENSGALT00000039231 1.00E-03	-3.35
4929	ENSGALT00000039270 2.96E-03	-2.07
4930	ENSGALT00000039308 4.56E-03	-2.46
4931	ENSGALT00000039326 6.79E-05	-2.38
4932	ENSGALT00000039329 1.42E-02	-1.57
4933	ENSGALT00000039359 2.34E-03	-1.66
4934	ENSGALT00000039388 5.26E-03	-2.90
4935	ENSGALT00000039406 3.63E-02	-1.26
4936	ENSGALT00000039437 1.70E-02	-1.30
4937	ENSGALT00000039464 8.35E-04	-4.83
4938	ENSGALT00000039480 7.12E-03	-1.76
4939	ENSGALT00000039509 2.86E-04	-6.37
4940	ENSGALT00000039511 4.49E-04	-6.52
4941	ENSGALT00000039514 9.95E-04	-8.09
4942	ENSGALT00000039520 4.67E-04	-6.46
4943	ENSGALT00000039524 4.03E-04	-6.75
4944	ENSGALT00000039532 8.38E-04	-2.73
4945	ENSGALT00000039568 1.18E-02	-2.47
4946	ENSGALT00000039594 4.40E-02	-1.86
4947	ENSGALT00000039612 3.25E-04	-7.01
4948	ENSGALT00000039614 6.92E-04	-5.69
4949	ENSGALT00000039617 1.46E-03	-2.84
4950	ENSGALT00000039659 2.71E-03	-1.88
4951	ENSGALT00000039665 2.87E-02	-2.50

4952	ENSGALT00000039666 6.81E-04	-1.35
4953	ENSGALT00000039691 2.13E-04	-4.33
4954	ENSGALT00000039723 3.02E-03	-2.71
4955	ENSGALT00000039732 6.13E-03	-2.89
4956	ENSGALT00000039740 7.54E-03	-1.79
4957	ENSGALT00000039742 1.15E-03	-3.23
4958	ENSGALT00000039756 5.79E-03	-3.71
4959	ENSGALT00000039771 1.07E-03	-1.25
4960	ENSGALT00000039773 1.34E-04	-5.29
4961	ENSGALT00000039780 9.47E-04	-3.32
4962	ENSGALT00000039794 2.36E-03	-3.41
4963	ENSGALT00000039847 2.53E-03	-1.29
4964	ENSGALT00000039851 7.46E-04	-3.35
4965	ENSGALT00000039942 3.07E-03	-4.33
4966	ENSGALT00000039951 2.30E-02	-3.47
4967	ENSGALT00000040052 2.53E-02	-1.15
4968	ENSGALT00000040115 1.84E-02	-2.37
4969	ENSGALT00000040180 1.07E-02	-5.26
4970	ENSGALT00000040187 2.35E-02	-1.29
4971	ENSGALT00000040193 1.85E-05	-5.36
4972	ENSGALT00000040225 1.19E-02	-2.29
4973	ENSGALT00000040242 2.34E-02	-1.26
4974	ENSGALT00000040244 3.55E-03	-4.32
4975	ENSGALT00000040271 3.45E-04	-6.82
4976	ENSGALT00000040314 1.03E-04	-6.34
4977	ENSGALT00000040352 3.28E-04	-6.42
4978	ENSGALT00000040393 3.74E-04	-7.98
4979	ENSGALT00000040398 3.31E-03	-1.91
4980	ENSGALT00000040424 6.92E-04	-5.66
4981	ENSGALT00000040440 5.76E-03	-1.37
4982	ENSGALT00000040493 9.53E-04	-2.65
4983	ENSGALT00000040503 3.22E-02	-1.30
4984	ENSGALT00000040513 7.89E-03	-2.40
4985	ENSGALT00000040525 2.25E-04	-8.13
4986	ENSGALT00000040573 1.94E-03	-2.10
4987	ENSGALT00000040608 7.76E-06	-7.37
4988	ENSGALT00000040633 2.02E-04	-5.77
4989	ENSGALT00000040671 3.73E-02	-1.50
4990	ENSGALT00000040696 1.27E-03	-5.21

4991	ENSGALT00000040732 3.40E-03	-3.32
4992	ENSGALT00000040733 6.31E-05	-1.09
4993	ENSGALT00000040735 1.03E-02	-1.46
4994	ENSGALT00000040740 1.12E-02	-2.06
4995	ENSGALT00000040808 1.13E-03	-2.75
4996	ENSGALT00000040817 1.33E-04	-5.45
4997	ENSGALT00000040818 2.31E-03	-2.19
4998	ENSGALT00000040829 2.04E-03	-3.72
4999	ENSGALT00000040831 7.77E-05	-6.82
5000	ENSGALT00000040895 1.59E-03	-2.97
5001	ENSGALT00000040947 1.80E-03	-1.91
5002	ENSGALT00000040966 4.31E-03	-3.31
5003	ENSGALT00000040970 1.32E-02	-1.76
5004	ENSGALT00000040998 6.08E-04	-1.38
5005	ENSGALT00000040999 2.19E-02	-2.04
5006	ENSGALT00000041037 1.26E-03	-3.15
5007	ENSGALT00000041068 1.47E-03	-4.42
5008	ENSGALT00000041087 1.59E-03	-3.46
5009	ENSGALT00000041103 4.34E-04	-4.86
5010	ENSGALT00000041107 5.71E-03	-1.55
5011	ENSGALT00000041137 1.02E-02	-2.12
5012	ENSGALT00000041158 2.20E-04	-5.48
5013	ENSGALT00000041245 1.42E-03	-2.25
5014	ENSGALT00000041248 7.77E-04	-1.63
5015	ENSGALT00000041272 7.07E-04	-2.14
5016	ENSGALT00000041273 4.11E-04	-4.98
5017	ENSGALT00000041320 7.38E-03	-2.02
5018	ENSGALT00000041328 7.62E-04	-5.25
5019	ENSGALT00000041350 4.08E-02	-1.88
5020	ENSGALT00000041367 4.30E-02	-1.68
5021	ENSGALT00000041373 1.22E-04	-1.66
5022	ENSGALT00000041391 2.75E-04	-3.44
5023	ENSGALT00000041392 1.33E-02	-3.04
5024	ENSGALT00000041403 4.90E-02	-2.63
5025	ENTPD4	-2.48 4.46E-04
5026	ENTPD5	-5.06 9.91E-04
5027	ENTPD6	-3.33 2.76E-03
5028	EPB41L4A	-4.84 6.73E-04
5029	EPCAM	-4.71 6.22E-04
5030	EPHA1	-2.18 3.41E-03
5031	EPHB2	-1.84 1.73E-03
5032	EPHX1	-2.57 9.47E-05

5033	EPM2A	-1.90	3.03E-03
5034	EPN2	-5.53	3.18E-04
5035	EPRS	-5.80	6.78E-04
5036	EPS15	-4.44	4.87E-04
5037	EPS15L1	-1.66	1.91E-02
5038	EPS8	-2.17	8.64E-03
5039	EPSTI1	-1.07	9.97E-02
5040	ERAL1	-4.47	1.62E-04
5041	ERAP1	-3.31	2.58E-03
5042	ERBB4	-1.85	3.78E-02
5043	ERC1	-3.07	5.64E-04
5044	ERCC3	-5.58	4.34E-04
5045	ERCC4	-1.31	1.01E-02
5046	ERCC5	-3.06	3.25E-04
5047	ERCC6	-2.83	4.55E-03
5048	ERCC6L2	-1.68	2.46E-03
5049	ERCC8	-1.76	1.67E-03
5050	ERGIC2	-2.36	2.89E-03
5051	ERGIC3	-2.10	1.11E-02
5052	ERH	-4.90	1.51E-04
5053	ERI1	-6.26	1.08E-04
5054	ERIC1	-1.83	1.20E-02
5055	ERLUN1	-3.62	2.49E-04
5056	ERLIN2	-4.75	2.91E-04
5057	ERO1L	-4.83	2.50E-04
5058	ERP29	-4.43	1.77E-03
5059	ERP44	-3.59	1.29E-03
5060	ERRF1	-2.61	4.26E-03
5061	ESCO1	-4.82	2.57E-04
5062	ESD	-2.95	2.62E-02
5063	ESF1	-3.22	1.00E-03
5064	ESRRB	-2.71	1.95E-02
5065	ETAA1	-3.10	7.60E-03
5066	ETF1	-5.28	6.05E-05
5067	ETFA	-3.07	2.26E-03
5068	ETFDH	-1.79	6.58E-04
5069	ETNK1	-2.55	3.29E-04
5070	ETNK2	-1.27	4.57E-03
5071	EU048536	-6.49	1.81E-03
5072	EU082129	-2.68	2.65E-03
5073	EU240280	-3.39	6.83E-03
5074	EU240284	-2.51	1.61E-04
5075	EU240299	-1.73	5.85E-03
5076	EVI5	-1.85	6.43E-03
5077	EVL	-2.01	1.60E-02
5078	EWSR1	-4.63	1.04E-01
5079	EXD1	-1.89	8.91E-03
5080	EXD2	-1.59	3.70E-03
5081	EXD3	-2.83	2.92E-03
5082	EXO1	-4.56	1.39E-04
5083	EXOC1	-1.83	7.80E-03
5084	EXOC3	-1.46	4.93E-02
5085	EXOC3L4	-1.84	1.40E-02
5086	EXOC4	-4.38	9.56E-04
5087	EXOC5	-5.73	4.71E-06
5088	EXOC6	-1.13	4.57E-03
5089	EXOC7	-4.01	3.28E-04
5090	EXOC8	-4.09	9.02E-04
5091	EXOG	-2.52	3.84E-04
5092	EXOSC1	-2.01	1.60E-02
5093	EXOSC10	-3.85	1.66E-03
5094	EXOSC2	-2.48	9.66E-03
5095	EXOSC3	-5.20	3.95E-04

5096	EXOSC7	-5.11	1.52E-05
5097	EXOSC9	-4.41	1.71E-04
5098	EZH2	-2.09	1.94E-03
5099	EZR	-2.71	2.05E-03
5100	F10	-1.29	1.34E-01
5101	F11R	-1.21	1.97E-03
5102	F2RL1	-2.23	1.42E-03
5103	F9	-4.89	2.27E-04
5104	FA2H	-1.12	4.22E-03
5105	FAAH	-2.35	6.81E-05
5106	FABP6	-3.55	2.53E-03
5107	FADS1	-3.76	2.65E-04
5108	FAF1	-2.97	9.17E-04
5109	FAF2	-2.33	5.54E-04
5110	FAHD2A	-5.46	2.45E-03
5111	FAIM	-5.86	2.29E-04
5112	FAM102B	-1.86	7.67E-04
5113	FAM103A1	-4.13	1.44E-03
5114	FAM104A	-6.00	1.28E-04
5115	FAM107A	-2.43	8.35E-03
5116	FAM108B1	-4.23	4.22E-04
5117	FAM114A2	-3.33	1.42E-03
5118	FAM118B	-3.58	2.54E-03
5119	FAM120A	-2.05	1.59E-03
5120	FAM120B	-3.13	4.34E-03
5121	FAM122A	-1.59	1.29E-02
5122	FAM122B	-2.40	8.38E-04
5123	FAM123B	-1.89	2.82E-02
5124	FAM125A	-4.57	9.63E-04
5125	FAM125B	-2.57	4.32E-04
5126	FAM126A	-8.16	5.26E-04
5127	FAM129A	-2.39	3.98E-03
5128	FAM132A	-2.30	2.40E-02
5129	FAM133B	-6.37	1.54E-04
5130	FAM134A	-5.26	7.53E-04
5131	FAM134C	-2.46	2.37E-03
5132	FAM135A	-4.02	8.32E-05
5133	FAM13A	-1.61	2.19E-03
5134	FAM13B	-4.26	1.52E-03
5135	FAM149B1	-2.42	1.95E-03
5136	FAM150B	-2.99	2.59E-03
5137	FAM162A	-3.37	8.50E-04
5138	FAM162B	-4.29	6.70E-04
5139	FAM164C	-6.03	2.20E-03
5140	FAM165B	-4.56	2.65E-03
5141	FAM166A	-1.86	1.80E-03
5142	FAM169B	-2.86	6.18E-03
5143	FAM171B	-5.54	4.33E-03
5144	FAM173A	-3.44	4.94E-04
5145	FAM174A	-5.11	1.66E-04
5146	FAM174B	-1.04	1.23E-02
5147	FAM175A	-2.18	1.30E-04
5148	Fam175b	-2.80	1.81E-04
5149	FAM177A1	-4.94	7.00E-05
5150	FAM179B	-2.40	6.48E-03
5151	FAM183A	-7.74	1.29E-03
5152	FAM184A	-4.27	6.27E-04
5153	FAM185A	-2.82	3.44E-03
5154	FAM188A	-2.43	4.35E-04
5155	FAM18A	-7.77	5.07E-05
5156	FAM192A	-5.42	9.46E-05
5157	FAM193A	-3.13	1.83E-03
5158	FAM194B	-6.02	4.50E-05

5159	FAM19A1	-1.31	2.02E-02
5160	FAM204A	-6.25	7.41E-04
5161	FAM206A	-6.16	1.46E-03
5162	FAM207A	-4.23	4.51E-04
5163	FAM208A	-3.10	4.45E-04
5164	FAM20B	-3.59	5.65E-04
5165	FAM210A	-3.64	5.49E-04
5166	FAM213A	-4.48	3.89E-03
5167	FAM214A	-3.64	1.72E-04
5168	FAM21A	-3.19	7.17E-04
5169	FAM32A	-7.14	6.08E-04
5170	FAM3B	-2.24	4.12E-03
5171	FAM3C	-2.73	3.77E-03
5172	FAM45A	-1.35	4.31E-03
5173	FAM46D	-7.27	1.12E-03
5174	FAM48A	-1.75	2.69E-03
5175	FAM49A	-3.38	2.60E-04
5176	FAM49B	-3.44	7.02E-04
5177	FAM53A	-5.58	1.22E-03
5178	FAM60A	-2.20	4.75E-03
5179	FAM62C	-1.31	1.08E-02
5180	FAM63B	-2.69	1.17E-03
5181	FAM64A	-4.74	2.41E-04
5182	FAM65B	-2.09	8.66E-04
5183	FAM69A	-2.65	9.13E-04
5184	FAM69C	-1.34	4.19E-03
5185	FAM70A	-1.58	2.84E-03
5186	FAM70B	-1.26	2.52E-02
5187	FAM72A	-3.88	8.73E-05
5188	FAM73A	-1.80	2.82E-03
5189	FAM76A	-3.67	2.83E-05
5190	FAM76B	-1.32	4.77E-03
5191	FAM81A	-3.26	1.99E-03
5192	FAM82B	-5.73	4.52E-04
5193	FAM83A	-1.46	2.85E-03
5194	FAM83D	-1.33	4.57E-02
5195	FAM84A	-2.87	3.78E-02
5196	FAM8A1	-1.33	1.47E-02
5197	FAM91A1	-3.27	3.21E-04
5198	FAM92A1	-6.88	9.60E-05
5199	FAM96A	-6.66	1.65E-06
5200	FAM96B	-5.09	2.71E-04
5201	FAM98A	-3.97	2.26E-03
5202	FANCA	-4.30	1.06E-04
5203	FANCC	-4.03	1.39E-03
5204	FANCE	-1.94	3.78E-02
5205	FANCG	-2.54	2.03E-02
5206	FANCI	-1.60	4.21E-04
5207	FANCL	-5.74	4.21E-04
5208	FAR1	-2.38	8.58E-04
5209	FARS2	-3.21	1.95E-03
5210	FARSA	-3.14	8.46E-03
5211	FARSB	-3.50	1.20E-04
5212	FASN	-3.04	3.51E-04
5213	FASTKD2	-3.37	1.60E-04
5214	FASTKD3	-2.02	4.78E-03
5215	FBF1	-4.56	3.11E-03
5216	FBLN1	-1.95	4.39E-02
5217	FBXL13	-5.21	9.36E-04
5218	FBXL18	-1.14	5.53E-03
5219	FBXL2	-2.50	1.35E-03
5220	FBXL20	-1.97	7.10E-03
5221	FBXL21	-2.84	1.12E-03

5222	FBXL3	-3.79	1.24E-03
5223	FBXL5	-3.71	2.89E-03
5224	FBXL7	-1.70	1.55E-01
5225	FBXL8	-2.02	2.27E-03
5226	FBXO11	-1.98	3.05E-03
5227	FBXO15	-5.17	1.90E-03
5228	FBXO16	-6.21	2.60E-03
5229	FBXO18	-1.59	1.21E-02
5230	FBXO21	-5.97	3.02E-04
5231	FBXO22	-2.67	8.85E-04
5232	FBXO25	-3.02	1.52E-03
5233	FBXO28	-2.90	3.23E-03
5234	FBXO30	-1.17	2.83E-03
5235	FBXO34	-4.43	3.29E-06
5236	FBXO39	-5.91	1.33E-04
5237	FBXO4	-1.67	1.80E-02
5238	FBXO43	-4.13	8.90E-04
5239	FBXO47	-1.65	8.56E-03
5240	FBXO48	-5.12	3.54E-05
5241	FBXO6	-2.52	1.34E-02
5242	FBXO7	-7.18	2.35E-05
5243	FBXO8	-2.99	1.56E-03
5244	FBXO9	-3.65	7.69E-04
5245	FBXW11	-2.58	6.62E-05
5246	FBXW5	-1.91	1.84E-02
5247	FBXW7	-2.67	1.44E-03
5248	FBXW8	-2.27	8.05E-03
5249	FCF1	-5.18	1.74E-04
5250	FCHO2	-1.44	1.92E-02
5251	FCHSD2	-1.39	1.35E-02
5252	FCN2	-3.60	1.21E-03
5253	FDF1	-4.76	1.11E-02
5254	FDX1	-5.81	2.96E-05
5255	FEM1B	-5.28	1.18E-04
5256	FEN1	-3.41	7.76E-03
5257	FER	-2.59	2.15E-03
5258	FER1L5	-4.50	4.89E-03
5259	FERMT1	-5.55	2.33E-04
5260	FEZ2	-4.04	2.12E-03
5261	FGB	-3.20	2.12E-03
5262	FGD3	-1.42	2.70E-03
5263	FGF14	-1.62	1.26E-02
5264	FGF18	-2.07	8.24E-02
5265	FGF19	-1.72	5.12E-03
5266	FGF2	-3.09	7.72E-03
5267	FGFBP2	-3.15	3.83E-03
5268	FGFR1OP	-3.12	2.23E-03
5269	FGFR1OP2	-4.13	7.64E-04
5270	FGFRL1	-2.50	8.71E-05
5271	FGG	-2.22	4.86E-04
5272	GGY	-4.24	5.40E-04
5273	FGL1	-3.17	1.05E-02
5274	FH	-6.92	5.93E-04
5275	FHIT	-4.15	2.32E-04
5276	FHL2	-1.45	6.32E-03
5277	FIBIN	-1.39	3.34E-03
5278	FICD	-2.37	3.62E-04
5279	FIG4	-2.02	8.35E-03
5280	FIGNL1	-4.67	1.76E-04
5281	FIP1L1	-3.66	5.74E-03
5282	FITM2	-1.45	8.76E-03
5283	FKBP14	-4.22	8.57E-04
5284	FKBP1A	-5.75	4.15E-03

5285	FKBP3	-7.65	7.29E-05
5286	FKBP4	-6.12	2.73E-04
5287	FKBP5	-1.80	7.43E-02
5288	FKBP6	-3.11	2.53E-02
5289	FKBP7	-1.84	1.17E-02
5290	FKBP9	-2.64	6.04E-03
5291	FLCN	-2.37	4.37E-04
5292	FMN1	-1.99	6.74E-04
5293	FMOD	-1.51	8.23E-02
5294	FMR1	-4.28	2.09E-04
5295	FN3KRP	-4.33	4.96E-04
5296	FNBP1L	-1.26	1.94E-03
5297	FNBP4	-4.81	1.55E-04
5298	FNDC3A	-6.95	1.05E-04
5299	FNDC7	-5.55	1.12E-03
5300	FNTA	-7.36	1.56E-04
5301	FOCAD	-1.35	4.55E-03
5302	FOPNL	-6.34	2.84E-04
5303	FOXK2	-4.70	6.02E-03
5304	FOXN3	-4.76	2.34E-04
5305	FRA10AC1	-5.63	4.94E-04
5306	FRG1	-3.22	1.33E-03
5307	FRMD3	-2.03	3.32E-02
5308	FRS2	-5.57	4.20E-04
5309	FRZB	-1.45	5.60E-04
5310	FSCN2	-1.12	1.20E-02
5311	FSD1L	-7.63	1.52E-04
5312	FSHR	-2.35	2.55E-03
5313	FSIP1	-2.63	3.33E-02
5314	FTH1	-5.99	1.37E-03
5315	FTSJ2	-2.17	3.15E-02
5316	FTSJ3	-3.94	2.21E-04
5317	FUBP1	-4.35	5.62E-04
5318	FUCA1	-3.77	2.73E-04
5319	FUNDC1	-7.26	1.12E-03
5320	FUS	-2.57	2.96E-03
5321	FUT10	-3.20	1.34E-03
5322	FUT11	-3.81	1.62E-04
5323	FUT8	-1.62	1.89E-03
5324	FXN	-4.35	2.89E-04
5325	FXR1	-4.45	4.59E-04
5326	FXYP6	-1.85	4.35E-04
5327	FYCO1	-2.09	3.64E-03
5328	FYT1D1	-4.99	1.45E-03
5329	FZD3	-4.98	3.55E-04
5330	FZD6	-2.24	2.96E-03
5331	FZD9	-1.78	2.12E-03
5332	G2E3	-2.50	2.32E-04
5333	G3BP1	-3.79	6.91E-04
5334	G3BP2	-3.68	4.98E-03
5335	GABARAPL2	-4.92	3.24E-04
5336	GABPA	-1.05	1.84E-03
5337	GABPB1	-1.85	3.76E-03
5338	GABRA4	-2.22	3.27E-03
5339	GADD45A	-2.80	1.69E-02
5340	GADD45B	-3.71	1.35E-04
5341	GALC	-1.43	1.94E-02
5342	GALK2	-3.54	5.00E-04
5343	GALM	-1.29	1.19E-02
5344	GALNT1	-2.88	3.67E-03
5345	GALNT11	-1.47	5.24E-03
5346	GALNT3	-1.53	6.47E-03
5347	GALNT7	-2.04	7.40E-03

5348	GALNT9	-1.37	4.53E-04
5349	GALNTL1	-1.77	9.20E-03
5350	GALNTL4	-1.46	2.85E-02
5351	GAN	-1.16	1.34E-01
5352	GAPDH	-7.51	1.54E-04
5353	GAPVD1	-3.92	2.69E-04
5354	GAR1	-1.07	8.24E-04
5355	GARNL3	-3.07	9.10E-03
5356	GARS	-4.16	1.84E-03
5357	GART	-2.82	4.20E-03
5358	GA56	-4.68	1.16E-03
5359	GA58	-5.72	1.53E-04
5360	GATA1	-1.91	7.59E-03
5361	GATAD1	-4.69	4.93E-04
5362	GATAD2A	-4.15	6.35E-04
5363	GATC	-1.45	6.04E-02
5364	GATSL2	-3.33	2.19E-03
5365	GBAS	-5.11	1.42E-03
5366	GBE	-3.30	4.11E-02
5367	GBF1	-4.49	8.84E-05
5368	GBGT1	-2.26	3.07E-04
5369	GC	-1.17	4.70E-03
5370	GCI1	-1.49	6.97E-02
5371	GCAT	-2.83	1.40E-03
5372	GCC2	-2.16	1.45E-03
5373	GCF1	-1.49	3.08E-02
5374	GCG	-2.12	3.46E-03
5375	GCH1	-2.08	9.83E-04
5376	GCLC	-4.23	6.75E-04
5377	GCNT2	-3.03	4.41E-02
5378	GCOM1	-4.44	3.91E-04
5379	GCSH	-3.23	2.79E-03
5380	GDF10	-1.93	9.23E-04
5381	GDI2	-3.30	8.29E-04
5382	GDPD1	-4.52	7.56E-04
5383	GEMIN4	-2.58	3.74E-05
5384	GEMIN5	-1.62	3.18E-03
5385	GEMIN6	-5.37	4.59E-04
5386	GET4	-4.72	1.40E-04
5387	GFER	-3.42	9.80E-04
5388	GF11	-3.79	1.11E-04
5389	GFM1	-3.37	2.98E-04
5390	GFPT1	-2.60	1.94E-03
5391	GGA3	-3.46	9.10E-04
5392	GGCL1	-1.56	1.31E-03
5393	GGNBP2	-8.46	3.00E-04
5394	GGPS1	-2.72	1.88E-04
5395	GGT1	-3.06	7.19E-04
5396	GHITM	-5.77	1.99E-03
5397	GID8	-1.64	1.20E-02
5398	GIN1	-1.63	3.41E-03
5399	GINM1	-4.76	1.10E-03
5400	GIN51	-2.50	1.00E-02
5401	GIP	-1.19	9.59E-03
5402	GIT2	-2.18	1.28E-04
5403	GJA1	-2.57	6.42E-03
5404	GJC1	-3.39	1.42E-03
5405	GK	-6.03	5.46E-05
5406	GK5	-5.74	3.70E-04
5407	GKAP1	-8.79	3.00E-05
5408	GLB1L	-2.16	6.28E-03
5409	GLCC1	-1.51	2.85E-02
5410	GLG1	-2.23	1.67E-03

5411	GLIPR1L2	-7.86	2.56E-04
5412	GLO1	-3.27	5.80E-03
5413	GLP1R	-2.69	2.19E-02
5414	GLRX3	-6.64	1.72E-04
5415	GLRX5	-2.81	1.88E-03
5416	GLT1D1	-1.89	1.77E-02
5417	GLT8D1	-7.31	3.39E-05
5418	GLTP	-2.67	2.00E-02
5419	GLTPD1	-1.32	8.23E-03
5420	GLUL	-2.30	3.27E-03
5421	GLYR1	-2.03	3.31E-03
5422	GMCL1	-1.27	4.79E-02
5423	GMFB	-3.36	4.73E-03
5424	GMNN	-4.85	5.83E-04
5425	GMPPB	-2.45	2.50E-03
5426	GMPR	-4.50	1.34E-03
5427	GMP5	-5.94	4.05E-03
5428	GNA11	-3.37	6.89E-04
5429	GNA13	-2.25	4.97E-03
5430	GNAI1	-3.73	1.70E-03
5431	GNAI3	-3.07	3.38E-03
5432	GNAL	-3.71	2.89E-03
5433	GNAS	-3.84	2.55E-03
5434	GNAT2	-2.04	3.68E-02
5435	GNAT3	-2.41	5.43E-03
5436	GNAZ	-1.59	4.35E-03
5437	GNB1	-4.42	9.69E-04
5438	GNB1L	-3.89	2.93E-03
5439	GNB2L1	-7.24	1.35E-04
5440	GNE	-3.65	2.37E-04
5441	GNG12	-4.01	8.98E-04
5442	GNG4	-7.29	3.44E-04
5443	GNG5	-6.92	4.69E-05
5444	GNL2	-6.51	9.50E-07
5445	GNL3	-5.19	5.62E-05
5446	GNMT	-1.19	8.72E-03
5447	GNPAT	-3.34	3.26E-03
5448	GNPDA1	-3.40	3.70E-04
5449	GNPDA2	-3.58	1.53E-04
5450	GNPNAT1	-3.92	9.56E-04
5451	GNPTG	-1.42	3.65E-03
5452	GNRH1	-1.54	2.12E-03
5453	GNS	-4.44	1.59E-03
5454	GOLGA1	-3.47	2.28E-04
5455	GOLGA3	-4.13	1.09E-02
5456	GOLGA4	-2.91	4.60E-04
5457	GOLGA5	-1.75	3.55E-04
5458	GOLGA7	-5.12	1.38E-04
5459	GOLIM4	-1.88	1.05E-02
5460	GOLM1	-6.87	3.12E-04
5461	GOLT1B	-2.38	3.15E-03
5462	GON4L	-4.35	6.49E-06
5463	GOPC	-3.08	6.39E-03
5464	GORAB	-4.26	1.20E-03
5465	GORASP1	-2.18	2.44E-03
5466	GORASP2	-4.58	1.16E-04
5467	GOSR1	-2.89	2.26E-04
5468	GOT1	-7.05	9.41E-05
5469	GOT2	-1.94	4.64E-03
5470	GPAT2	-4.98	3.53E-05
5471	GPATCH1	-2.52	1.41E-03
5472	GPATCH2L	-1.68	7.95E-04
5473	GPBP1	-2.89	2.64E-04

5474	GPBP1L1	-2.41	4.60E-03
5475	GPC6	-1.59	5.96E-02
5476	GPCPD1	-5.74	3.65E-04
5477	GPD1	-6.62	1.22E-05
5478	GPD2	-2.25	4.01E-02
5479	GPI	-5.34	3.10E-04
5480	GPN2	-3.71	1.13E-03
5481	GPN3	-5.22	2.15E-03
5482	GPR107	-2.37	6.70E-03
5483	GPR137B	-3.24	5.11E-03
5484	GPR149	-3.48	8.27E-04
5485	GPR155	-2.80	3.16E-03
5486	GPR158	-1.51	6.15E-03
5487	GPR160	-2.28	1.80E-03
5488	GPR162	-2.27	1.35E-02
5489	GPR176	-2.47	1.09E-04
5490	GPR37	-2.20	1.02E-02
5491	GPS1	-5.73	1.02E-04
5492	GPSM2	-4.38	7.00E-04
5493	GPX3	-4.66	4.23E-04
5494	GPX4	-4.93	2.87E-03
5495	GPX8	-1.96	1.07E-02
5496	GQ365760	-1.32	1.03E-02
5497	GRAMD1C	-5.44	4.01E-04
5498	GRAMD3	-1.59	7.00E-03
5499	GRB10	-5.13	9.55E-04
5500	GRB14	-2.59	4.27E-03
5501	GRB2	-3.22	1.20E-03
5502	GRHL1	-5.70	5.45E-04
5503	GRHPR	-1.63	3.60E-03
5504	GRIN2B	-2.30	2.57E-03
5505	GRK4	-4.72	1.26E-04
5506	GRK5	-1.51	1.05E-03
5507	GRK6	-1.06	6.03E-03
5508	GRPEL1	-2.54	3.11E-03
5509	GRSF1	-7.37	2.53E-04
5510	GRTP1	-4.36	6.41E-04
5511	GSK3B	-4.14	2.28E-03
5512	GSN	-2.94	9.22E-05
5513	GSPT1	-2.27	1.82E-03
5514	GSR	-3.44	1.63E-04
5515	GSTA	-3.06	8.96E-03
5516	GSTA1	-1.06	2.57E-01
5517	GSTCD	-1.74	2.72E-02
5518	GSTK1	-3.24	1.88E-03
5519	GSTM2	-1.44	9.59E-03
5520	GSTO1	-5.18	4.68E-04
5521	GSTT1	-1.45	1.19E-02
5522	GSTZ1	-2.84	4.11E-04
5523	GTF2A1	-2.38	9.92E-05
5524	GTF2A1L	-7.36	2.04E-04
5525	GTF2A2	-6.79	8.74E-05
5526	GTF2B	-4.35	5.26E-04
5527	GTF2E2	-3.94	1.14E-04
5528	GTF2F2	-1.49	3.34E-02
5529	GTF2H3	-2.83	4.62E-03
5530	GTF2H4	-3.51	7.81E-04
5531	GTF2H5	-1.42	1.39E-02
5532	GTF2IRD1	-1.98	1.22E-03
5533	GTF3A	-1.47	9.38E-04
5534	GTF3C3	-4.30	2.06E-05
5535	GTF3C5	-3.98	1.41E-04
5536	GTPBP1	-3.82	1.46E-04

5537	GTPBP10	-2.34	2.61E-03
5538	GTPBP2	-1.47	8.50E-03
5539	GTPBP4	-5.67	2.98E-04
5540	GTPBP5	-2.34	1.19E-02
5541	GTPBP6	-2.35	1.23E-03
5542	GTPBP8	-2.02	1.90E-03
5543	GTSE1	-2.52	5.38E-03
5544	GTSF1	-6.05	3.45E-04
5545	GUCA2A	-1.74	2.98E-03
5546	GUF1	-2.15	1.03E-02
5547	GUK1	-3.18	6.65E-03
5548	GULP1	-2.56	1.62E-02
5549	GUSB	-1.41	1.40E-02
5550	GXYLT1	-4.04	4.90E-04
5551	GYG1	-3.56	9.65E-04
5552	GZF1	-2.19	3.82E-03
5553	H2AFJ	-3.09	2.18E-03
5554	H2AFY	-5.32	8.97E-04
5555	H2AFY2	-5.00	7.07E-05
5556	H2AFZ	-8.54	2.62E-04
5557	H3F3C	-7.17	1.22E-04
5558	HAAO	-3.57	6.66E-03
5559	HABP4	-3.99	3.73E-03
5560	HACE1	-4.10	5.15E-04
5561	HADHA	-1.99	3.32E-03
5562	HADHB	-5.88	2.59E-04
5563	HAGH	-1.79	7.10E-02
5564	HAGHL	-1.26	5.41E-04
5565	HARBI1	-2.55	2.74E-03
5566	HAT1	-4.93	2.01E-03
5567	HAUS1	-5.28	9.15E-05
5568	HAUS2	-7.24	2.42E-05
5569	HAUS3	-3.20	1.16E-02
5570	HAUS6	-1.67	1.73E-02
5571	HAUS8	-2.52	3.79E-03
5572	HBG2	-1.16	8.95E-02
5573	HBP1	-2.74	6.66E-04
5574	HBS1L	-3.28	3.35E-05
5575	HCCS	-4.15	5.01E-04
5576	HCN2	-3.20	5.64E-03
5577	HDAC1	-3.11	3.15E-03
5578	HDAC11	-5.40	1.01E-03
5579	HDAC2	-3.95	2.05E-04
5580	HDAC4	-1.56	6.85E-03
5581	HDAC8	-4.12	4.09E-04
5582	HDDC2	-5.34	4.57E-04
5583	HDHD1	-7.18	2.18E-04
5584	HDHD2	-2.64	2.58E-03
5585	HDHD3	-5.10	1.36E-04
5586	HDLBP	-5.71	9.26E-05
5587	HDX	-3.22	6.15E-04
5588	HEATR2	-3.66	9.80E-04
5589	HEATR3	-3.28	1.69E-03
5590	HEATR5A	-1.50	1.50E-03
5591	HEATR6	-4.58	8.66E-05
5592	HEBP1	-3.14	1.67E-03
5593	HECTD1	-1.25	9.23E-03
5594	HECTD3	-3.41	3.19E-04
5595	HECW1	-1.22	1.12E-02
5596	HELLS	-5.83	1.95E-04
5597	HELQ	-2.51	4.28E-02
5598	HEMGN	-2.90	1.72E-02
5599	HEMK1	-2.19	9.72E-04

5600	HERC1	-2.28	1.51E-03
5601	HERC2	-3.19	9.38E-05
5602	HERC4	-3.46	3.67E-04
5603	HERPUD1	-2.17	3.49E-03
5604	HEXA	-4.44	5.43E-04
5605	HEXB	-2.54	6.70E-03
5606	HEXDC	-2.78	7.07E-03
5607	HGSNAT	-3.64	3.45E-04
5608	HIAT1	-5.08	1.14E-03
5609	HIBADH	-3.79	3.20E-04
5610	HIBCH	-3.58	9.03E-05
5611	HIC1	-1.27	9.22E-03
5612	HIF1A	-2.61	5.74E-03
5613	HIGD1A	-1.24	2.64E-02
5614	HIGD2A	-6.48	1.38E-05
5615	HINT1	-5.63	6.67E-04
5616	HINT3	-3.66	4.20E-05
5617	HINTW	-4.13	1.32E-04
5618	HIP1	-4.15	4.80E-04
5619	HIPK2	-1.84	7.96E-03
5620	HIPK3	-2.47	3.12E-05
5621	HIST1H1C	-2.30	3.87E-02
5622	HIST1H2BO	-5.63	5.18E-04
5623	HIST2H2AC	-2.88	4.41E-04
5624	HIVEP2	-1.74	1.52E-02
5625	HIVEP3	-3.52	2.68E-02
5626	HJURP	-4.61	1.25E-03
5627	HK1	-2.19	1.39E-03
5628	HMBOX1	-4.74	5.60E-03
5629	HMB5	-5.85	8.95E-05
5630	HMCN1	-2.62	4.11E-03
5631	HMG20A	-2.19	2.16E-04
5632	HMGB1	-5.13	9.15E-04
5633	HMGB2	-6.06	8.46E-04
5634	HMGB3	-2.38	2.92E-02
5635	HMGCLL1	-3.72	7.84E-04
5636	HMGCR	-2.06	3.17E-03
5637	HMGCS1	-3.32	5.64E-03
5638	HMGCS2	-6.54	9.44E-05
5639	HMGN1	-4.58	2.97E-05
5640	HMGN2	-8.33	4.41E-05
5641	HMGN3	-3.13	4.81E-04
5642	HMGN5	-3.86	1.40E-03
5643	HMGXB4	-2.50	1.61E-03
5644	HMHA1	-1.41	2.40E-02
5645	HMMR	-2.41	4.56E-03
5646	HMOX2	-4.27	1.08E-03
5647	HN1	-7.13	1.97E-04
5648	HNRNPA2B1	-6.18	1.17E-05
5649	HNRNPA3	-3.70	2.29E-03
5650	HNRNPAB	-6.04	9.09E-05
5651	HNRNPD	-5.29	3.14E-05
5652	HNRNPH1	-5.21	7.73E-04
5653	HNRNPH3	-4.26	7.64E-06
5654	HNRNPK	-5.78	2.60E-04
5655	HNRNPM	-2.26	1.23E-03
5656	HNRNPR	-3.94	1.53E-04
5657	HNRNPU	-6.27	6.06E-05
5658	HNRPDL	-4.20	2.02E-04
5659	HNRPK	-3.97	1.81E-03
5660	HNRPLL	-4.15	2.14E-04
5661	HOMER3	-2.46	1.35E-03
5662	HOOK1	-2.69	1.18E-02

5663	HOOK3	-6.31	1.03E-03
5664	HOPX	-1.31	1.02E-01
5665	HORMAD1	-5.25	1.28E-03
5666	HORMAD2	-2.28	4.81E-04
5667	HP1BP3	-4.71	1.18E-04
5668	HPD	-3.08	4.04E-04
5669	HPRT1	-2.41	1.95E-03
5670	HRSP12	-2.46	1.97E-02
5671	HS1BP3	-3.59	2.33E-03
5672	HS3ST2	-1.15	4.29E-03
5673	HS3ST3A1	-2.09	3.82E-03
5674	HS6ST1	-2.07	1.31E-03
5675	HS6ST2	-3.18	2.23E-04
5676	HSBP1	-6.78	6.19E-04
5677	HSD17B11	-3.95	1.22E-04
5678	HSD17B12	-4.49	2.45E-04
5679	HSD17B4	-7.97	3.88E-05
5680	HSD17B7	-3.21	8.04E-04
5681	HSDL1	-1.64	2.30E-03
5682	HSF2	-2.92	2.17E-03
5683	HSF5	-4.08	2.61E-04
5684	HSP25	-2.44	9.18E-02
5685	HSP90AA1	-7.45	4.98E-04
5686	HSP90AB1	-3.66	7.78E-04
5687	HSP90B1	-5.75	6.99E-05
5688	HSPA2	-4.03	1.05E-02
5689	HSPA4	-3.75	1.06E-04
5690	HSPA4L	-8.26	1.10E-04
5691	HSPA5	-6.46	1.99E-04
5692	HSPA8	-4.98	1.43E-02
5693	HSPA9	-5.29	8.75E-04
5694	HSPB11	-3.11	4.70E-03
5695	HSPB8	-1.42	7.65E-02
5696	HSPBAP1	-5.79	2.88E-04
5697	HSPD1	-4.09	9.24E-04
5698	HSPE1	-7.16	4.51E-04
5699	HSPH1	-4.36	3.74E-03
5700	HTATSF1	-2.28	2.98E-03
5701	HTR1D	-1.68	1.12E-03
5702	HTRA2	-3.84	3.62E-03
5703	HTRA3	-2.65	9.00E-04
5704	HUS1	-2.46	5.46E-03
5705	HYDIN	-2.73	2.17E-03
5706	HYLS1	-7.52	9.04E-05
5707	HYOU1	-2.53	1.05E-03
5708	IAH1	-4.06	4.03E-04
5709	IARS	-5.12	4.52E-04
5710	IARS2	-5.01	1.64E-04
5711	IBTK	-4.26	2.71E-03
5712	ICA1	-3.82	2.92E-01
5713	ICMT	-1.58	1.47E-02
5714	ICT1	-6.93	4.58E-05
5715	ID1	-2.10	1.54E-02
5716	ID2	-2.77	2.04E-03
5717	ID4	-1.55	4.72E-02
5718	IDH1	-2.74	1.81E-03
5719	IDH2	-3.48	1.03E-03
5720	IDH3A	-2.39	1.14E-05
5721	IDH3B	-4.76	5.39E-04
5722	IDI1	-7.08	5.33E-04
5723	IDUA	-1.16	1.71E-02
5724	IFFO1	-1.96	1.68E-03
5725	IFI27L2	-1.50	1.21E-02

5726	IFI35	-2.39	3.24E-04
5727	IFIH1	-3.06	1.05E-03
5728	IFNGR2	-4.03	8.91E-04
5729	IFRD1	-3.06	2.01E-03
5730	IFT140	-3.25	2.43E-02
5731	IFT172	-3.09	8.06E-04
5732	IFT20	-6.34	7.36E-05
5733	IFT27	-6.52	4.90E-04
5734	IFT46	-6.40	4.38E-05
5735	IFT52	-5.80	3.44E-03
5736	IFT57	-7.62	1.30E-04
5737	IFT80	-5.73	3.56E-04
5738	IFT81	-3.40	1.05E-03
5739	IFT88	-3.41	1.49E-04
5740	IGBP1	-4.81	6.63E-04
5741	IGF1R	-1.68	2.24E-03
5742	IGFBP7	-6.63	3.91E-05
5743	IGHMBP2	-4.45	1.33E-04
5744	IGSF21	-1.83	9.02E-03
5745	IK	-6.10	2.25E-04
5746	IKBIP	-4.02	3.25E-04
5747	IKBKAP	-3.19	5.42E-03
5748	IKBKB	-2.11	4.51E-03
5749	IKZF5	-4.15	2.31E-04
5750	IL12RB2	-2.39	9.39E-04
5751	IL15	-1.20	1.05E-03
5752	IL17D	-3.39	3.64E-03
5753	IL1RAPL2	-1.29	7.79E-03
5754	IL23R	-2.20	1.42E-02
5755	IL2RG	-1.43	1.53E-03
5756	IL9	-1.44	2.54E-02
5757	ILDR1	-2.75	3.53E-03
5758	ILF2	-2.52	3.37E-03
5759	ILK	-1.78	3.28E-02
5760	ILKAP	-1.98	1.40E-03
5761	IMMP1L	-3.67	1.70E-04
5762	IMMP2L	-3.01	1.26E-03
5763	IMMT	-4.18	8.27E-04
5764	IMPA1	-5.06	7.78E-04
5765	IMPACT	-5.63	7.41E-04
5766	IMPAD1	-1.52	1.09E-02
5767	IMPDH2	-4.64	1.68E-04
5768	IMPG2	-4.60	3.71E-03
5769	INCENP	-2.97	4.20E-05
5770	ING1	-3.59	3.68E-03
5771	ING2	-4.38	1.56E-04
5772	ING3	-3.50	7.76E-04
5773	ING4	-5.39	9.57E-05
5774	INIP	-3.45	8.27E-03
5775	INO80	-1.57	2.60E-04
5776	INO80C	-3.80	5.39E-03
5777	INPP4A	-3.26	6.41E-04
5778	INPP5B	-2.08	4.56E-03
5779	INPP5E	-2.38	8.47E-04
5780	INPP5K	-2.53	1.54E-03
5781	INSIG1	-1.37	2.78E-03
5782	INSIG2	-1.77	1.03E-02
5783	INTS10	-4.99	9.56E-05
5784	INTS12	-2.76	1.99E-04
5785	INTS2	-1.31	1.92E-02
5786	INTS7	-2.63	7.33E-04
5787	INTS8	-4.27	1.04E-03
5788	INTS9	-2.14	4.74E-03

5789	INVS	-3.72	1.44E-03
5790	IP6K2	-6.28	5.01E-04
5791	IPO5	-4.33	8.27E-04
5792	IPO7	-2.33	9.05E-03
5793	IPO8	-2.77	2.75E-03
5794	IPO9	-3.60	1.39E-05
5795	IPPK	-3.67	7.80E-05
5796	IQCA1	-4.55	1.18E-04
5797	IQCB1	-3.16	1.62E-04
5798	IQCC	-1.65	2.16E-02
5799	IQCD	-5.31	3.90E-04
5800	IQCE	-4.37	1.25E-05
5801	IQCG	-7.08	6.07E-05
5802	IQCK	-2.56	4.82E-04
5803	IQGAP1	-3.23	3.88E-03
5804	IQUB	-6.84	1.10E-04
5805	IRAK1BP1	-6.42	2.04E-04
5806	IRAK2	-4.20	1.24E-04
5807	IRAK4	-1.93	1.70E-02
5808	IREB2	-3.96	5.81E-04
5809	IRF2	-2.11	1.01E-02
5810	IRF2BP1	-2.90	7.98E-03
5811	IRF6	-3.62	1.69E-03
5812	ISCA1	-5.19	6.10E-04
5813	ISCU	-4.72	2.95E-04
5814	ISM1	-1.66	2.55E-03
5815	ISOC1	-3.26	2.24E-03
5816	ISY1	-3.84	1.51E-03
5817	ITFG1	-1.81	2.77E-02
5818	ITFG2	-1.44	2.86E-02
5819	ITFG3	-4.63	2.71E-04
5820	ITGA3	-1.15	2.10E-02
5821	ITGA6	-1.07	6.53E-03
5822	ITGB1	-3.05	9.91E-04
5823	ITGB1BP1	-3.72	2.02E-04
5824	ITGB1BP3	-8.28	1.06E-03
5825	ITGB3BP	-4.01	7.86E-03
5826	ITGB5	-2.17	9.76E-03
5827	ITM2A	-7.83	9.68E-04
5828	ITM2B	-4.49	1.04E-03
5829	ITPA	-6.67	7.42E-04
5830	ITPK1	-1.41	4.33E-02
5831	ITPKB	-2.73	7.58E-03
5832	ITSN1	-3.93	1.59E-03
5833	IVD	-2.08	1.93E-04
5834	IVNS1ABP	-2.95	3.99E-04
5835	JAK1	-2.48	6.64E-03
5836	JAKMIP2	-5.37	1.84E-03
5837	JAM2	-3.29	1.13E-03
5838	JAM3	-1.20	3.49E-02
5839	JAZF1	-3.72	5.38E-04
5840	JHDM1D	-3.36	2.68E-03
5841	JKAMP	-4.52	2.68E-04
5842	JMJD1C	-3.45	4.63E-03
5843	JMJD4	-1.71	2.69E-03
5844	JMJD5	-2.58	7.06E-03
5845	JMJD6	-3.33	4.31E-03
5846	JMJD7	-2.90	3.70E-04
5847	JMJD8	-4.40	3.65E-03
5848	JOSD1	-2.52	4.84E-03
5849	JPH1	-3.24	7.99E-04
5850	JTB	-5.39	3.70E-02
5851	JUN	-3.46	3.65E-03

5852	KANK1	-2.63	6.03E-03
5853	KARS	-5.69	1.57E-04
5854	KAT2A	-3.29	3.28E-03
5855	KAT2B	-2.18	2.53E-04
5856	KATNA1	-2.10	1.02E-02
5857	KATNAL1	-3.96	8.00E-05
5858	KATNAL2	-1.87	4.63E-04
5859	KATNB1	-6.71	7.90E-05
5860	KBTBD2	-3.46	1.23E-03
5861	KBTBD4	-3.08	2.58E-03
5862	KCMF1	-5.84	2.72E-04
5863	KCNAB1	-1.24	7.18E-03
5864	KCNK1	-1.78	2.57E-02
5865	KCNK5	-2.00	5.65E-03
5866	KCNMB1	-1.67	4.77E-03
5867	KCNMB4	-1.36	4.72E-03
5868	KCNN2	-2.68	2.63E-03
5869	KCNT2	-2.14	1.98E-04
5870	KCTD2	-5.68	8.91E-05
5871	KCTD7	-1.21	3.32E-03
5872	KCTD9	-4.08	5.89E-04
5873	KDEL1	-4.37	2.02E-04
5874	KDEL2	-4.27	3.61E-04
5875	KDM1A	-2.50	1.53E-03
5876	KDM3A	-4.70	1.68E-04
5877	KDM3B	-5.44	2.20E-03
5878	KDM4A	-3.65	2.93E-03
5879	KDM5A	-1.17	1.56E-02
5880	KDM5B	-1.79	2.63E-02
5881	KDSR	-1.38	3.66E-03
5882	KHDRBS1	-2.26	3.32E-02
5883	KHDRBS3	-5.28	8.43E-05
5884	KIAA0020	-3.04	6.61E-04
5885	KIAA0100	-1.39	4.35E-03
5886	KIAA0196	-2.40	2.41E-03
5887	KIAA0232	-3.63	3.67E-04
5888	KIAA0317	-1.30	7.39E-03
5889	KIAA0319L	-4.86	1.71E-05
5890	KIAA0368	-2.01	2.08E-02
5891	KIAA0391	-2.21	8.95E-04
5892	KIAA0586	-4.09	1.62E-04
5893	KIAA0776	-4.89	2.03E-03
5894	KIAA0825	-1.67	7.29E-03
5895	KIAA0907	-4.61	2.44E-04
5896	KIAA0930	-3.50	2.56E-03
5897	KIAA1109	-4.00	7.44E-05
5898	KIAA1143	-4.30	6.07E-04
5899	KIAA1199	-2.50	1.34E-02
5900	KIAA1279	-1.46	2.78E-04
5901	KIAA1429	-4.49	2.70E-04
5902	KIAA1430	-4.31	3.46E-04
5903	KIAA1432	-2.61	1.72E-03
5904	KIAA1456	-3.96	1.66E-03
5905	KIAA1462	-1.61	5.06E-03
5906	KIAA1467	-1.13	3.12E-02
5907	KIAA1468	-1.64	1.72E-03
5908	KIAA1524	-4.82	2.04E-04
5909	KIAA1609	-3.11	2.27E-03
5910	KIAA1704	-4.82	8.26E-04
5911	KIAA1715	-1.95	2.51E-03
5912	KIAA1731	-6.44	1.41E-03
5913	KIAA1737	-1.87	1.36E-02
5914	KIAA2018	-2.19	2.46E-03

5915	KIAA2026	-2.72	5.35E-04
5916	KIDINS220	-5.41	1.32E-05
5917	KIF11	-4.78	9.82E-04
5918	KIF13A	-2.55	4.94E-04
5919	KIF15	-5.76	2.89E-04
5920	KIF16B	-5.26	2.87E-04
5921	KIF18A	-4.72	8.39E-04
5922	KIF1A	-2.14	8.01E-03
5923	KIF1B	-3.80	1.26E-03
5924	KIF20A	-4.39	1.73E-04
5925	KIF23	-5.03	4.69E-04
5926	KIF24	-7.17	8.21E-05
5927	KIF27	-4.48	7.05E-04
5928	KIF2B	-4.08	7.46E-04
5929	KIF2C	-7.05	2.66E-04
5930	KIF3A	-5.01	1.41E-04
5931	KIF3B	-2.84	2.37E-03
5932	KIF4A	-6.34	2.97E-04
5933	KIF5B	-4.81	2.18E-03
5934	KIF5C	-1.59	2.06E-02
5935	KIFC1	-4.05	5.40E-03
5936	KLC1	-3.33	9.91E-04
5937	KLF11	-4.68	1.98E-04
5938	KLF3	-1.30	1.49E-02
5939	KLF5	-2.53	7.48E-03
5940	KLHDC1	-3.88	4.35E-04
5941	KLHDC2	-5.87	2.46E-06
5942	KLHDC3	-4.58	1.03E-04
5943	KLHDC4	-3.52	4.46E-04
5944	KLHDC8B	-1.30	1.03E-02
5945	KLHL10	-7.46	5.81E-04
5946	KLHL18	-1.17	2.67E-02
5947	KLHL20	-1.08	5.22E-03
5948	KLHL26	-2.66	5.44E-04
5949	KLHL28	-2.90	3.55E-04
5950	KLHL7	-1.82	2.87E-03
5951	KLHL8	-2.37	7.72E-04
5952	KNTC1	-3.07	8.52E-04
5953	KPNA1	-1.05	7.84E-04
5954	KPNA2	-1.30	1.07E-02
5955	KPNA3	-3.41	7.94E-03
5956	KPNA4	-6.28	5.08E-05
5957	KPNA6	-4.26	5.95E-03
5958	KRIT1	-5.33	9.94E-05
5959	KRR1	-5.86	1.88E-03
5960	KRT15	-2.37	1.95E-03
5961	KRT23	-1.17	3.39E-02
5962	KSR1	-2.12	5.65E-03
5963	KTI12	-1.85	5.63E-03
5964	KTN1	-1.71	9.42E-03
5965	L06098	-3.50	9.05E-02
5966	L3MBTL2	-4.24	1.35E-03
5967	L3MBTL4	-3.75	1.35E-03
5968	L48911	-3.46	3.16E-02
5969	L48915	-2.80	8.39E-03
5970	L48920	-7.39	8.69E-04
5971	LACE1	-4.25	8.68E-04
5972	LACTB	-3.01	7.40E-04
5973	LAMA3	-1.80	3.20E-02
5974	LAMA5	-2.89	2.08E-03
5975	LAMB2	-2.68	3.44E-03
5976	LAMB4	-1.49	1.96E-02
5977	LAMP1	-3.65	4.40E-04

5978	LAMTOR3	-5.18	4.20E-04
5979	LANCL1	-4.11	9.42E-04
5980	LANCL2	-4.22	8.14E-04
5981	LAP3	-4.67	7.56E-05
5982	LAPTM4A	-6.75	1.12E-04
5983	LARP1B	-3.83	2.62E-03
5984	LARP4B	-3.04	2.80E-03
5985	LARP7	-6.22	1.20E-04
5986	LARS	-1.80	4.10E-02
5987	LARS2	-2.51	5.07E-04
5988	LASP1	-3.13	8.72E-03
5989	LATS1	-3.14	6.69E-04
5990	LBH	-2.92	3.69E-03
5991	LBR	-7.44	4.98E-05
5992	LBX3	-4.15	2.19E-02
5993	LCA5	-7.13	1.56E-04
5994	LCAT	-1.83	8.75E-03
5995	LCIAT1	-3.24	5.67E-04
5996	LCMT1	-3.99	4.93E-03
5997	LCORL	-2.33	1.60E-03
5998	LDHA	-6.64	2.70E-05
5999	LDHB	-7.41	2.99E-04
6000	DLRAD4	-4.67	2.25E-03
6001	LEFTY2	-1.47	1.37E-03
6002	LEMD3	-1.39	5.15E-02
6003	LEPREL2	-1.84	9.18E-04
6004	LEPROT	-3.36	9.56E-04
6005	LEPROTL1	-1.89	2.55E-03
6006	LETM1	-4.40	1.41E-04
6007	LETM2	-2.78	1.21E-04
6008	LGALS2	-3.63	4.15E-03
6009	LGALSL	-1.81	8.09E-05
6010	LGI1	-1.52	2.85E-02
6011	LGMN	-2.50	1.23E-03
6012	LGR4	-3.00	1.98E-04
6013	LHCGR	-2.68	2.16E-03
6014	LHFPL5	-2.53	1.67E-03
6015	LIAS	-3.61	1.02E-03
6016	LIFR	-1.35	5.82E-02
6017	LIG3	-3.01	1.54E-03
6018	LIG4	-4.70	1.55E-04
6019	LIMA1	-2.66	8.59E-04
6020	LIMD1	-2.04	2.26E-02
6021	LIN52	-5.59	1.16E-03
6022	LIN54	-5.97	9.59E-05
6023	LIN7C	-5.27	3.92E-04
6024	LIN9	-4.03	8.79E-04
6025	LINGO1	-1.35	4.24E-03
6026	LINS	-1.66	5.78E-03
6027	LIPC	-1.24	7.93E-02
6028	LIPT1	-2.38	3.99E-04
6029	LITAF	-4.60	3.16E-04
6030	LLPH	-6.67	4.03E-04
6031	LMAN1	-6.60	2.56E-05
6032	LMBR1	-4.54	4.21E-03
6033	LMBRD1	-4.27	1.51E-04
6034	LMF1	-2.89	5.90E-04
6035	LMF2	-2.32	1.08E-02
6036	LMNB2	-1.98	2.45E-03
6037	LMO7	-1.91	2.37E-03
6038	LNP1	-2.21	5.36E-03
6039	LOC100502566	-2.79	5.62E-02
6040	LOC100857180	-2.40	3.07E-03

6041	LOC100857702	-2.51	9.11E-04
6042	LOC100857911	-3.02	1.47E-03
6043	LOC100857946	-2.14	2.84E-04
6044	LOC100858157	-2.22	3.39E-03
6045	LOC100858441	-1.85	2.50E-03
6046	LOC100858553	-2.28	1.28E-03
6047	LOC100858662	-1.63	1.29E-03
6048	LOC100858846	-3.41	4.92E-03
6049	LOC100859245	-1.65	1.73E-03
6050	LOC100859298	-3.31	1.31E-02
6051	LOC100859334	-3.62	2.95E-04
6052	LOC100859802	-4.52	4.44E-04
6053	LOC100859840	-2.57	6.91E-04
6054	LOC100859855	-2.42	1.24E-02
6055	LOC395159	-3.94	6.34E-04
6056	LOC395676	-2.43	1.57E-03
6057	LOC395787	-1.39	2.19E-03
6058	LOC395926	-2.91	2.77E-02
6059	LOC395991	-2.55	1.15E-02
6060	LOC396120	-1.35	7.07E-03
6061	LOC396380	-6.79	7.20E-05
6062	LOC415456	-2.82	2.41E-04
6063	LOC415464	-3.86	2.97E-02
6064	LOC415529	-1.47	2.44E-03
6065	LOC415708	-1.41	7.29E-03
6066	LOC415756	-3.34	2.11E-03
6067	LOC415859	-2.75	1.58E-02
6068	LOC415871	-3.95	2.64E-04
6069	LOC415872	-4.96	4.80E-04
6070	LOC415950	-6.00	2.87E-05
6071	LOC415976	-1.72	5.80E-02
6072	LOC416055	-5.44	7.05E-05
6073	LOC416390	-6.85	2.19E-04
6074	LOC416415	-2.69	4.56E-03
6075	LOC416500	-1.05	2.01E-03
6076	LOC416530	-4.06	3.55E-03
6077	LOC416668	-2.09	8.17E-04
6078	LOC416916	-2.71	1.04E-03
6079	LOC416931	-2.58	3.04E-02
6080	LOC416951	-4.03	2.19E-02
6081	LOC416968	-2.15	2.65E-04
6082	LOC416993	-2.41	3.24E-03
6083	LOC416995	-2.34	5.90E-03
6084	LOC417263	-7.04	4.00E-04
6085	LOC417325	-1.31	6.80E-02
6086	LOC417340	-3.06	1.23E-03
6087	LOC417380	-7.62	5.60E-04
6088	LOC417386	-2.49	4.27E-03
6089	LOC417531	-8.24	1.31E-04
6090	LOC417551	-4.53	1.35E-03
6091	LOC417800	-1.73	2.50E-02
6092	LOC417948	-2.32	3.48E-02
6093	LOC417954	-1.74	1.03E-01
6094	LOC418170	-5.73	2.07E-04
6095	LOC418249	-1.19	2.98E-03
6096	LOC418362	-1.32	3.91E-03
6097	LOC418395	-5.42	4.41E-04
6098	LOC418713	-2.70	1.53E-03
6099	LOC418756	-4.15	6.97E-04
6100	LOC418811	-6.41	4.68E-05
6101	LOC418918	-1.48	8.31E-02
6102	LOC418927	-4.01	8.95E-04
6103	LOC419074	-2.57	2.35E-03

6104	LOC419136	-1.58	5.75E-02
6105	LOC419390	-1.72	1.13E-02
6106	LOC419404	-4.17	9.70E-05
6107	LOC419409	-2.62	5.12E-03
6108	LOC419511	-4.21	5.48E-04
6109	LOC419545	-1.40	1.38E-03
6110	LOC419602	-2.30	8.01E-03
6111	LOC419693	-1.83	7.28E-03
6112	LOC419782	-6.24	2.69E-03
6113	LOC419830	-7.40	4.88E-04
6114	LOC420108	-1.78	3.37E-02
6115	LOC420153	-2.53	4.49E-04
6116	LOC420220	-9.04	1.49E-03
6117	LOC420411	-3.80	3.57E-04
6118	LOC420454	-2.45	5.15E-03
6119	LOC420466	-1.51	3.84E-02
6120	LOC420516	-3.37	1.44E-03
6121	LOC420552	-2.43	3.60E-03
6122	LOC420553	-1.12	2.34E-03
6123	LOC420579	-2.60	4.43E-03
6124	LOC420606	-1.71	1.47E-01
6125	LOC420707	-2.67	1.32E-03
6126	LOC420716	-1.45	1.89E-03
6127	LOC420726	-3.78	1.22E-02
6128	LOC420734	-7.94	3.09E-04
6129	LOC420793	-3.80	8.08E-04
6130	LOC420807	-4.41	3.93E-04
6131	LOC420860	-3.69	4.39E-03
6132	LOC420915	-2.00	4.21E-03
6133	LOC420992	-1.04	1.93E-02
6134	LOC421099	-5.21	7.58E-04
6135	LOC421212	-4.66	7.06E-05
6136	LOC421259	-4.67	1.77E-03
6137	LOC421419	-2.38	7.98E-05
6138	LOC421447	-1.88	5.92E-03
6139	LOC421506	-3.24	2.55E-03
6140	LOC421792	-5.20	1.09E-04
6141	LOC421805	-4.16	2.11E-04
6142	LOC421975	-5.24	6.53E-04
6143	LOC421978	-6.55	3.80E-04
6144	LOC422008	-8.62	3.71E-04
6145	LOC422051	-4.56	3.36E-03
6146	LOC422071	-6.52	7.99E-04
6147	LOC422090	-3.69	4.95E-04
6148	LOC422151	-1.44	6.43E-04
6149	LOC422198	-5.97	2.16E-04
6150	LOC422212	-3.79	1.06E-03
6151	LOC422221	-2.55	9.35E-03
6152	LOC422249	-4.30	1.25E-03
6153	LOC422270	-1.92	1.82E-02
6154	LOC422304	-4.90	2.38E-04
6155	LOC422426	-8.34	7.95E-05
6156	LOC422442	-2.82	2.49E-03
6157	LOC422448	-2.32	2.76E-02
6158	LOC422513	-4.45	2.70E-03
6159	LOC422577	-1.63	3.53E-02
6160	LOC422609	-2.50	6.11E-04
6161	LOC422619	-1.65	2.07E-03
6162	LOC422681	-2.03	2.09E-02
6163	LOC422821	-2.03	4.38E-04
6164	LOC422887	-2.57	4.48E-03
6165	LOC422895	-5.10	1.13E-03
6166	LOC422901	-3.60	2.78E-03

6167	LOC422928	-4.94	2.68E-02
6168	LOC422993	-1.55	1.12E-02
6169	LOC423006	-4.99	2.23E-04
6170	LOC423008	-3.51	2.63E-03
6171	LOC423256	-2.41	1.62E-02
6172	LOC423277	-4.65	3.35E-04
6173	LOC423306	-1.85	2.58E-03
6174	LOC423317	-2.99	7.98E-03
6175	LOC423321	-5.92	1.04E-04
6176	LOC423425	-2.85	1.44E-03
6177	LOC423462	-6.96	1.04E-03
6178	LOC423499	-1.68	3.83E-04
6179	LOC423740	-2.53	4.29E-03
6180	LOC423793	-5.08	1.37E-03
6181	LOC423967	-3.36	3.42E-03
6182	LOC424014	-4.33	2.23E-03
6183	LOC424109	-2.20	1.54E-02
6184	LOC424111	-3.42	1.25E-03
6185	LOC424201	-2.92	9.50E-03
6186	LOC424459	-1.09	1.45E-02
6187	LOC424676	-1.66	1.70E-02
6188	LOC424816	-2.95	1.07E-02
6189	LOC424925	-7.17	2.06E-04
6190	LOC425001	-3.05	1.68E-03
6191	LOC425011	-2.83	6.94E-03
6192	LOC425015	-1.91	3.91E-03
6193	LOC425441	-5.16	1.37E-03
6194	LOC425470	-3.53	3.88E-04
6195	LOC425531	-3.58	3.72E-04
6196	LOC426015	-5.57	2.51E-03
6197	LOC426023	-1.68	1.28E-02
6198	LOC426034	-2.52	9.06E-03
6199	LOC426092	-1.80	6.30E-03
6200	LOC426097	-4.57	2.22E-03
6201	LOC426106	-1.62	4.66E-02
6202	LOC426128	-1.80	9.08E-03
6203	LOC426187	-2.89	1.36E-03
6204	LOC426295	-5.53	4.03E-04
6205	LOC426385	-1.10	7.44E-04
6206	LOC426514	-2.36	2.17E-04
6207	LOC426710	-1.46	1.68E-02
6208	LOC426801	-1.21	5.64E-03
6209	LOC426880	-4.36	8.52E-05
6210	LOC427001	-2.15	4.90E-04
6211	LOC427161	-4.44	1.38E-04
6212	LOC427241	-1.84	2.91E-03
6213	LOC427259	-1.32	1.43E-02
6214	LOC427369	-8.04	5.01E-04
6215	LOC427419	-2.76	4.32E-05
6216	LOC427826	-4.27	3.68E-03
6217	LOC427882	-3.42	3.72E-03
6218	LOC427896	-2.71	7.25E-03
6219	LOC429054	-1.40	2.03E-02
6220	LOC429115	-5.17	1.01E-04
6221	LOC429566	-6.42	3.81E-03
6222	LOC430766	-4.10	1.80E-02
6223	LOC430910	-5.69	3.30E-04
6224	LOC693257	-6.16	3.73E-04
6225	LOC693265	-4.73	1.59E-04
6226	LOC768418	-1.55	3.97E-03
6227	LOC768497	-8.60	3.55E-04
6228	LOC768565	-1.74	1.71E-02
6229	LOC768701	-3.62	8.68E-05

6230	LOC768709	-3.50	8.37E-03
6231	LOC768803	-5.75	1.44E-03
6232	LOC768819	-6.76	1.27E-03
6233	LOC768945	-1.48	4.69E-02
6234	LOC769134	-6.23	2.32E-06
6235	LOC769277	-2.91	1.67E-02
6236	LOC769329	-2.05	5.55E-02
6237	LOC769463	-1.80	2.87E-02
6238	LOC770271	-4.50	3.59E-04
6239	LOC770483	-6.24	1.14E-03
6240	LOC770490	-1.94	1.25E-03
6241	LOC770616	-4.46	2.88E-03
6242	LOC770634	-2.28	6.17E-03
6243	LOC770653	-1.29	4.04E-02
6244	LOC770729	-8.53	5.81E-05
6245	LOC770771	-5.46	2.17E-04
6246	LOC770804	-5.25	6.24E-04
6247	LOC770838	-6.69	3.03E-04
6248	LOC770857	-3.72	4.14E-03
6249	LOC771022	-4.90	8.55E-04
6250	LOC771069	-1.84	4.30E-02
6251	LOC771098	-3.30	2.07E-03
6252	LOC771160	-2.10	6.78E-03
6253	LOC771178	-4.65	7.37E-03
6254	LOC771207	-3.18	9.07E-04
6255	LOC771339	-6.04	1.28E-06
6256	LOC771388	-2.32	4.80E-03
6257	LOC771527	-3.75	7.15E-03
6258	LOC771702	-4.53	1.52E-03
6259	LOC771713	-3.83	1.56E-03
6260	LOC771935	-3.02	1.12E-02
6261	LOC771947	-7.12	5.62E-05
6262	LOC771956	-2.94	2.00E-03
6263	LOC772071	-2.59	5.08E-02
6264	LOC772245	-1.35	4.37E-02
6265	LOC772269	-2.77	8.59E-04
6266	LOC775963	-3.25	7.75E-04
6267	LOC776176	-7.00	4.99E-04
6268	LOC776458	-1.22	1.60E-02
6269	LOC776720	-5.60	3.36E-04
6270	LOH12CR1	-2.86	2.25E-04
6271	LONP1	-1.82	5.56E-04
6272	LONP2	-3.48	1.25E-03
6273	LOXL2	-2.23	8.58E-04
6274	LPAR1	-3.07	4.11E-04
6275	LPAR6	-1.94	3.79E-02
6276	LPCAT1	-4.38	9.02E-04
6277	LPCAT2	-5.52	1.07E-04
6278	LPCAT3	-3.11	5.46E-04
6279	LPIN2	-6.25	4.15E-04
6280	LPPR5	-2.68	1.03E-05
6281	LRCH1	-2.38	2.72E-03
6282	LRIF1	-2.91	1.38E-02
6283	LRMP	-1.47	1.20E-02
6284	LRP28P	-4.68	8.17E-04
6285	LRPAP1	-5.20	4.67E-03
6286	LRPPRC	-3.35	1.20E-02
6287	LRRC23	-2.86	1.59E-04
6288	LRRC28	-3.82	1.84E-05
6289	LRRC40	-5.47	1.32E-04
6290	LRRC45	-4.19	1.65E-03
6291	LRRC46	-2.26	6.28E-04
6292	LRRC47	-1.20	2.60E-02

6293	LRRC48	-7.46	1.49E-04
6294	LRRC49	-3.35	2.05E-03
6295	LRRC57	-1.33	1.64E-02
6296	LRRC59	-4.03	1.39E-03
6297	LRRC6	-6.34	2.88E-04
6298	LRRC61	-2.30	6.93E-03
6299	LRRC72	-7.38	1.94E-04
6300	LRRC73	-3.61	3.45E-05
6301	LRRC8B	-3.02	4.52E-02
6302	LRRC11	-4.57	1.03E-03
6303	LRRFIP2	-4.02	1.11E-03
6304	LRRIQ4	-7.18	7.80E-04
6305	LSAMP	-3.94	2.64E-04
6306	LSG1	-6.28	1.63E-03
6307	LSM1	-4.48	9.45E-04
6308	LSM10	-2.69	1.64E-03
6309	LSM14A	-4.13	1.51E-04
6310	LSM3	-3.88	2.27E-03
6311	LSM4	-3.18	1.11E-02
6312	LSM5	-5.17	1.52E-04
6313	LSM6	-4.65	3.16E-03
6314	LSMD1	-3.25	2.10E-03
6315	LSS	-3.28	7.21E-04
6316	LTA4H	-5.13	4.90E-05
6317	LTK	-2.08	7.57E-02
6318	LTN1	-3.54	8.54E-04
6319	LTV1	-3.35	1.28E-03
6320	LUC7L2	-3.08	5.80E-04
6321	LUC7L3	-5.83	5.12E-05
6322	LUZP1	-4.25	4.13E-04
6323	LYGE	-1.98	1.22E-02
6324	LYAR	-6.99	6.05E-04
6325	LYN	-1.31	1.69E-03
6326	LYPD6B	-1.61	2.12E-02
6327	LYPLAL1	-2.82	4.02E-04
6328	LYRM1	-3.05	2.18E-03
6329	LYRM2	-3.62	2.01E-03
6330	LYRM5	-4.72	7.94E-04
6331	LYRM7	-5.03	1.27E-05
6332	LYSMD2	-6.62	1.78E-04
6333	LYVE1	-2.29	3.41E-03
6334	LYZ	-2.35	1.04E-03
6335	LZIC	-3.73	4.27E-04
6336	LZTFL1	-6.00	2.83E-03
6337	M28628	-3.12	2.61E-03
6338	M63624	-5.04	9.24E-04
6339	M6PR	-2.13	7.18E-04
6340	MACROD2	-2.92	7.99E-03
6341	MAD2L1	-4.57	1.78E-03
6342	MAD2L1BP	-2.70	2.61E-04
6343	MAD2L2	-3.20	5.07E-03
6344	MAEA	-4.44	8.99E-04
6345	MAEL	-4.03	2.03E-03
6346	MAGI3	-1.23	9.15E-03
6347	MAGOH	-6.76	2.04E-04
6348	MAGT1	-4.77	7.29E-04
6349	MAK	-5.29	1.63E-03
6350	MAK16	-1.30	1.59E-03
6351	MAL2	-1.50	2.11E-03
6352	MALSU1	-1.89	6.28E-03
6353	MAML1	-1.12	2.67E-03
6354	MAN1B1	-2.14	1.02E-02
6355	MAN1C1	-2.84	4.09E-03

6356	MAN2B2	-3.78	4.01E-03
6357	MANBA	-4.91	4.23E-03
6358	MANF	-5.62	1.27E-03
6359	MANSC1	-2.41	2.44E-03
6360	MAP1A	-1.89	2.91E-04
6361	MAP1LC3B	-4.72	2.80E-03
6362	MAP1LC3C	-3.56	5.78E-04
6363	MAP2K1	-4.50	1.96E-04
6364	MAP2K4	-2.23	1.48E-02
6365	MAP2K5	-2.76	7.28E-04
6366	MAP3K15	-1.95	1.64E-02
6367	MAP3K7	-3.17	9.40E-07
6368	MAP4K3	-2.81	6.56E-04
6369	MAP9	-5.79	2.44E-04
6370	MAPK1	-2.49	4.30E-03
6371	MAPK11	-1.74	2.42E-03
6372	MAPK12	-2.50	1.96E-03
6373	MAPK14	-5.17	3.40E-04
6374	MAPK1IP1L	-1.59	2.01E-02
6375	MAPK6	-3.10	3.78E-04
6376	MAPK8IP3	-1.94	7.88E-04
6377	MAPKAPK2	-1.92	3.67E-03
6378	MAPKAPK5	-2.42	1.44E-03
6379	MAPRE1	-3.27	2.26E-02
6380	MAPRE2	-3.29	2.53E-03
6381	MAPT	-6.77	5.76E-04
6382	MARCKS	-1.85	3.01E-02
6383	MARCKSL1	-6.94	1.44E-04
6384	MARF1	-2.43	2.87E-03
6385	MARK1	-2.24	1.52E-02
6386	MARK3	-3.44	5.79E-04
6387	MARS2	-1.70	2.54E-02
6388	MARVELD2	-3.24	4.06E-04
6389	MAST2	-2.74	2.21E-03
6390	MASTL	-1.29	2.76E-03
6391	MAT2B	-3.59	9.71E-04
6392	MATN2	-3.22	1.31E-03
6393	MATN3	-4.13	7.07E-03
6394	MATR3	-4.50	4.03E-05
6395	MAU2	-4.47	7.78E-04
6396	MBD2	-4.30	1.28E-03
6397	MBD4	-7.22	1.91E-04
6398	MBIP	-3.50	4.60E-04
6399	MBLAC2	-2.64	3.66E-03
6400	MCAT	-5.38	2.12E-04
6401	MCCC1	-3.07	7.36E-03
6402	MCEE	-3.52	5.19E-04
6403	MCF2	-1.54	4.33E-02
6404	MCFD2	-4.35	1.56E-03
6405	MCL1	-1.66	1.19E-01
6406	MCM2	-4.86	7.25E-05
6407	MCM3	-3.28	2.14E-03
6408	MCM3AP	-4.94	2.61E-04
6409	MCM6	-1.99	5.77E-04
6410	MCM8	-4.32	2.26E-04
6411	MCMBP	-3.21	9.41E-04
6412	MCOLN2	-1.31	7.28E-03
6413	MCPH1	-3.99	5.44E-04
6414	MCTS1	-5.97	3.49E-04
6415	MDH1	-4.90	4.93E-03
6416	MDH1B	-6.87	1.46E-03
6417	MDH2	-2.48	2.67E-03
6418	MDM1	-1.74	4.21E-03

6419	MDM4	-5.95	1.61E-03
6420	ME1	-2.26	1.74E-02
6421	ME3	-1.25	1.83E-02
6422	MEAF6	-5.04	1.54E-04
6423	MED1	-1.21	4.17E-03
6424	MED10	-4.75	2.66E-04
6425	MED12	-3.44	1.07E-04
6426	MED16	-1.58	7.02E-04
6427	MED17	-3.47	1.16E-03
6428	MED19	-4.34	3.23E-03
6429	MED20	-5.53	8.76E-05
6430	MED21	-3.11	7.30E-04
6431	MED22	-2.53	8.06E-03
6432	MED23	-3.69	2.98E-04
6433	MED24	-2.48	2.91E-02
6434	MED27	-3.79	1.98E-04
6435	MED28	-5.52	1.40E-03
6436	MED30	-5.75	1.10E-03
6437	MED31	-4.22	2.03E-03
6438	MED4	-3.46	5.06E-03
6439	MED6	-3.47	1.88E-03
6440	MED8	-3.81	1.61E-04
6441	MED9	-2.90	3.75E-03
6442	MEF2B2NB	-4.29	3.86E-04
6443	MEI1	-4.89	6.43E-04
6444	MELK	-4.03	2.82E-04
6445	MEMO1	-3.87	1.52E-03
6446	MEP1A	-2.37	4.64E-04
6447	MEP1B	-1.32	1.61E-02
6448	MESDC1	-1.60	1.31E-02
6449	MESDC2	-6.72	2.64E-04
6450	MEST	-1.57	5.33E-02
6451	METAP2	-5.89	1.81E-03
6452	METTL10	-4.07	2.75E-03
6453	METTL11A	-4.19	8.90E-04
6454	METTL14	-3.30	5.46E-03
6455	METTL16	-2.38	1.11E-03
6456	METTL19	-2.61	1.71E-03
6457	METTL21A	-3.90	5.46E-06
6458	METTL21D	-4.98	5.80E-05
6459	METTL25	-1.73	2.49E-02
6460	METTL2A	-5.36	3.85E-04
6461	METTL5	-4.89	5.88E-04
6462	METTL7A	-4.71	9.24E-04
6463	METTL9	-4.13	1.78E-04
6464	MEX3D	-1.33	1.32E-02
6465	MFAP1	-2.65	1.35E-03
6466	MFAP3	-3.81	3.94E-04
6467	MFN1	-4.37	1.04E-03
6468	MFSD1	-2.64	1.63E-03
6469	MFSD10	-6.88	1.55E-03
6470	MFSD9	-1.96	6.02E-03
6471	MGAT5	-3.03	3.51E-03
6472	MGEA5	-3.13	1.41E-03
6473	MGLL	-2.22	2.35E-03
6474	MGMT	-5.06	1.78E-04
6475	MGST1	-6.68	3.73E-05
6476	MGST2	-1.67	8.10E-03
6477	MIB1	-2.72	8.59E-04
6478	MICALL1	-3.38	8.98E-04
6479	MICU1	-2.43	1.21E-02
6480	MID1IP1	-3.76	4.98E-05
6481	MINA	-2.71	4.77E-04

6482	MINOS1	-4.95	8.33E-04
6483	MIPEP	-5.61	9.83E-04
6484	MIS12	-2.66	1.50E-02
6485	MIS18A	-2.01	7.07E-03
6486	MKI67	-5.17	8.86E-05
6487	MKI67IP	-5.29	3.97E-04
6488	MKKS	-4.43	2.92E-04
6489	MKLN1	-5.60	2.73E-04
6490	MKNK1	-3.70	7.83E-05
6491	MKS1	-3.38	3.20E-05
6492	MLF1	-7.19	8.11E-03
6493	MLF1IP	-4.58	1.34E-04
6494	MLF2	-4.07	1.00E-03
6495	MLH1	-1.67	7.03E-04
6496	MLL3	-2.93	2.76E-03
6497	MLL5	-4.73	1.15E-04
6498	MLLT10	-2.40	9.34E-04
6499	MLLT3	-3.46	1.64E-04
6500	MLLT4	-3.34	9.01E-04
6501	MLST8	-2.11	3.56E-03
6502	MLX	-3.41	6.40E-05
6503	MLXIP	-1.28	1.64E-02
6504	MMAA	-2.80	2.41E-03
6505	MMACHC	-3.00	7.76E-03
6506	MMADHC	-4.90	1.93E-03
6507	MMD	-4.72	4.08E-05
6508	MMGT1	-2.97	9.04E-04
6509	MMS19	-3.09	1.33E-03
6510	MMS22L	-2.04	1.69E-03
6511	MNAT1	-2.87	2.04E-04
6512	MND1	-6.72	4.65E-04
6513	MOB2	-6.82	1.06E-03
6514	MOB4	-3.62	6.81E-04
6515	MOBK2B	-1.10	1.67E-02
6516	MOC52	-3.51	9.19E-04
6517	MOC53	-2.47	3.80E-03
6518	MON1A	-1.98	9.47E-03
6519	MON2	-1.35	1.83E-03
6520	MORC3	-3.39	2.89E-04
6521	MORF4L1	-6.88	1.53E-04
6522	MORN4	-1.24	8.41E-03
6523	MORN5	-3.71	5.48E-04
6524	MOSPD1	-4.19	2.83E-03
6525	MOSPD2	-2.80	2.01E-04
6526	MOXD1	-1.18	2.00E-01
6527	MPDZ	-1.58	5.39E-03
6528	MPG	-2.17	6.27E-03
6529	MPHOSPH10	-3.63	3.52E-04
6530	MPHOSPH6	-4.28	3.28E-04
6531	MPHOSPH8	-4.00	2.29E-04
6532	MPHOSPH9	-1.28	9.83E-03
6533	MPI	-4.30	8.52E-03
6534	MPLKIP	-1.06	1.54E-02
6535	MPP1	-4.50	4.05E-04
6536	MPP3	-4.29	4.50E-04
6537	MPP5	-1.86	5.34E-03
6538	MPP6	-5.42	1.19E-04
6539	MPP7	-4.36	1.15E-02
6540	MPPE1	-1.30	4.42E-02
6541	MPPED1	-1.39	2.70E-03
6542	MPZL3	-1.94	6.14E-02
6543	MRAS	-4.15	7.02E-04
6544	MRE11A	-3.20	3.93E-03

6545	MRM1	-1.15	2.82E-03
6546	MRP63	-7.07	1.70E-04
6547	MRPL1	-2.32	1.05E-02
6548	MRPL10	-1.34	3.96E-02
6549	MRPL12	-5.58	2.18E-05
6550	MRPL13	-5.82	8.43E-04
6551	MRPL14	-6.59	2.15E-03
6552	MRPL15	-5.17	8.48E-04
6553	MRPL16	-5.30	5.73E-04
6554	MRPL17	-4.46	3.77E-02
6555	MRPL18	-7.39	1.20E-04
6556	MRPL19	-3.05	1.79E-03
6557	MRPL2	-3.24	1.06E-02
6558	MRPL20	-4.11	2.05E-03
6559	MRPL21	-5.65	5.26E-04
6560	MRPL22	-2.69	6.31E-04
6561	MRPL23	-6.87	3.41E-04
6562	MRPL24	-4.63	2.38E-03
6563	MRPL27	-6.27	1.05E-04
6564	MRPL28	-4.16	8.10E-03
6565	MRPL3	-4.85	1.86E-03
6566	MRPL30	-5.90	5.15E-04
6567	MRPL32	-4.04	5.23E-04
6568	MRPL33	-4.34	1.75E-04
6569	MRPL37	-4.65	2.54E-04
6570	MRPL38	-5.13	2.37E-04
6571	MRPL39	-6.00	1.50E-04
6572	MRPL41	-4.78	3.17E-05
6573	MRPL42	-5.26	4.82E-04
6574	MRPL44	-6.54	2.89E-04
6575	MRPL45	-4.42	2.02E-03
6576	MRPL46	-5.01	5.42E-04
6577	MRPL48	-5.08	3.23E-04
6578	MRPL50	-6.23	5.19E-04
6579	MRPL51	-4.19	1.21E-03
6580	MRPL53	-5.70	1.96E-03
6581	MRPS10	-3.99	2.56E-03
6582	MRPS11	-8.35	2.33E-05
6583	MRPS12	-5.78	2.47E-04
6584	MRPS14	-4.69	2.32E-03
6585	MRPS16	-5.45	6.12E-05
6586	MRPS17	-7.87	1.84E-04
6587	MRPS18A	-5.00	1.08E-03
6588	MRPS18C	-5.69	2.25E-03
6589	MRPS2	-2.56	9.10E-03
6590	MRPS21	-3.85	7.29E-04
6591	MRPS22	-4.88	2.32E-04
6592	MRPS23	-5.81	8.71E-04
6593	MRPS25	-5.68	3.96E-03
6594	MRPS26	-5.13	1.50E-03
6595	MRPS27	-2.39	2.41E-03
6596	MRPS28	-7.45	5.98E-06
6597	MRPS30	-5.06	1.39E-03
6598	MRPS31	-4.99	1.56E-04
6599	MRPS33	-3.10	2.61E-02
6600	MRPS35	-4.34	4.96E-04
6601	MRPS36	-5.11	1.92E-03
6602	MRPS5	-5.65	2.44E-04
6603	MRPS6	-2.76	1.66E-02
6604	MRPS9	-5.29	5.84E-04
6605	MRRF	-3.69	4.23E-04
6606	MRS2	-1.49	8.98E-03
6607	MSANTD1	-1.14	8.83E-03

6608	MSANTD2	-3.24	3.70E-04
6609	MSANTD3	-4.63	6.91E-06
6610	MSANTD4	-5.59	1.01E-03
6611	MSH2	-3.18	7.29E-04
6612	MSH4	-4.14	1.82E-03
6613	MSH6	-1.38	1.04E-02
6614	MSI1	-2.07	8.47E-02
6615	MSI2	-6.00	9.32E-04
6616	MSL1	-2.21	9.17E-03
6617	MSL2	-2.74	6.53E-04
6618	MSN	-2.47	1.15E-03
6619	MSRA	-2.31	5.58E-04
6620	MSRB3	-2.13	8.32E-03
6621	MT3	-4.62	3.08E-04
6622	MT4	-7.01	2.72E-05
6623	MTA1	-3.59	3.82E-03
6624	MTA3	-4.08	2.25E-04
6625	MTAP	-4.38	1.59E-03
6626	MTCH2	-1.28	5.92E-02
6627	MTERFD1	-4.88	1.86E-04
6628	MTF2	-3.60	2.88E-04
6629	MTFMT	-4.06	1.16E-03
6630	MTFP1	-2.37	3.34E-02
6631	MTFR1	-6.21	4.52E-05
6632	MTFR1L	-4.86	1.17E-03
6633	MTG1	-2.57	3.50E-03
6634	MTHFD1	-4.76	4.42E-04
6635	MTHFD2	-2.70	1.05E-04
6636	MTHFD2L	-1.30	5.16E-02
6637	MTHFS	-2.36	1.35E-02
6638	MTHFSD	-3.48	7.06E-04
6639	MTIF2	-3.29	2.48E-03
6640	MTIF3	-4.41	5.57E-05
6641	MTMR1	-3.18	2.56E-04
6642	MTMR10	-1.50	3.64E-03
6643	MTMR14	-1.79	2.02E-03
6644	MTMR2	-2.35	3.31E-03
6645	MTMR3	-2.13	1.32E-04
6646	MTMR8	-1.74	2.15E-02
6647	MTMR9	-5.94	3.91E-04
6648	MTOR	-4.34	6.78E-04
6649	MTPAP	-1.38	4.20E-03
6650	MTPN	-4.22	1.98E-03
6651	MTR	-2.26	3.32E-03
6652	MTRF1	-4.25	5.84E-04
6653	MTRF1L	-3.73	6.78E-04
6654	MTSS1	-1.67	2.31E-02
6655	MTX2	-5.21	3.83E-03
6656	MTX3	-2.41	2.98E-03
6657	MUDENG	-3.63	5.48E-03
6658	MUL1	-1.79	1.32E-02
6659	MUT	-1.97	1.93E-03
6660	MUTED	-5.07	2.90E-05
6661	MVP	-2.38	9.00E-04
6662	MXD1	-1.41	6.58E-02
6663	MXD4	-1.38	3.57E-02
6664	MXI1	-5.05	4.73E-04
6665	MXRA8	-2.94	1.45E-03
6666	MYBBP1A	-1.20	2.51E-02
6667	MYBL1	-4.75	5.45E-04
6668	MYBL2	-3.78	8.85E-04
6669	MYCBP	-6.77	2.12E-03
6670	MYCBP2	-1.49	1.73E-03

6671	MYCN	-1.93	4.67E-03
6672	MYD88	-3.17	6.24E-04
6673	MYEF2	-3.10	7.46E-04
6674	MYEOV2	-6.81	1.22E-04
6675	MYF6	-2.49	6.15E-04
6676	MYH10	-4.19	6.65E-05
6677	MYH11	-3.57	5.65E-03
6678	MYH7B	-1.15	3.55E-03
6679	MYL10	-2.46	5.12E-04
6680	MYL12A	-4.01	3.21E-04
6681	MYL3	-2.28	2.12E-03
6682	MYL4	-6.33	3.33E-04
6683	MYL6	-1.57	1.95E-03
6684	MYLIP	-2.06	1.61E-03
6685	MYLK	-1.45	2.41E-02
6686	MYO1C	-2.21	6.16E-03
6687	MYO5A	-2.88	1.68E-03
6688	MYPN	-2.00	4.94E-03
6689	MYRIP	-2.50	5.36E-03
6690	MYST2	-5.30	5.53E-04
6691	MYST3	-1.74	1.29E-03
6692	MZT1	-6.63	2.67E-03
6693	N4BP1	-5.51	1.25E-04
6694	N4BP2L2	-3.20	5.02E-04
6695	N6AMT1	-4.18	7.66E-04
6696	N6AMT2	-3.13	3.28E-03
6697	NAA15	-3.85	7.35E-04
6698	NAA20	-6.35	5.57E-04
6699	NAA25	-1.63	7.95E-03
6700	NAA30	-1.87	2.32E-02
6701	NAA35	-5.10	6.55E-04
6702	NAA38	-6.22	8.42E-04
6703	NAA40	-5.47	3.26E-03
6704	NAA50	-1.62	1.11E-02
6705	NAB1	-5.36	9.60E-04
6706	NACA	-4.41	2.07E-03
6707	NACAD	-2.51	2.64E-03
6708	NACC2	-2.52	1.18E-03
6709	NADK	-4.28	1.47E-03
6710	NADSYN1	-2.36	2.33E-02
6711	NAE1	-5.28	4.51E-04
6712	NAF1	-2.66	9.67E-04
6713	NAGPA	-1.52	5.11E-03
6714	NAIF1	-1.56	7.06E-02
6715	NAMPT	-2.04	1.27E-03
6716	NANP	-1.98	1.50E-03
6717	NAP1L1	-6.33	3.37E-04
6718	NAP1L4	-6.37	3.62E-04
6719	NAPEPLD	-6.09	2.27E-04
6720	NAPG	-2.76	7.73E-03
6721	NARFL	-4.67	4.04E-04
6722	NARG2	-1.91	4.66E-03
6723	NARS	-2.57	1.73E-03
6724	NARS2	-2.34	1.39E-02
6725	NASP	-3.96	5.77E-03
6726	NAT10	-3.57	7.47E-03
6727	NAT9	-2.74	1.18E-02
6728	NBAS	-3.01	6.73E-04
6729	NBL1	-1.91	9.07E-03
6730	NBN	-5.37	3.07E-03
6731	NBR1	-3.12	8.00E-03
6732	NCAPD2	-2.86	2.18E-03
6733	NCAPG2	-3.65	1.38E-03

6734	NBCP1	-4.08	2.18E-03
6735	NBCP2	-5.77	6.82E-05
6736	NCDN	-3.92	8.07E-04
6737	NCEH1	-2.00	6.68E-03
6738	NCK2	-2.34	2.35E-04
6739	NCKAP1	-1.62	7.90E-03
6740	NCKIPSD	-3.95	3.64E-04
6741	NCL	-5.51	1.40E-04
6742	NCOA3	-1.96	1.05E-03
6743	NCOA4	-6.80	2.24E-04
6744	NCOA6	-1.16	5.32E-04
6745	NCOA7	-1.17	1.62E-02
6746	NCOR1	-4.29	3.24E-04
6747	ND1	-7.24	1.11E-02
6748	ND2	-5.15	5.44E-03
6749	ND3	-6.69	6.91E-03
6750	ND4	-5.17	1.94E-02
6751	ND4L	-3.11	1.52E-02
6752	ND5	-6.79	3.26E-03
6753	ND6	-5.54	1.44E-02
6754	NDC80	-2.95	1.24E-02
6755	NDE1	-2.89	8.63E-04
6756	NDEL1	-3.57	5.39E-04
6757	NDVIP1	-6.01	2.70E-04
6758	NDVIP2	-6.33	4.96E-04
6759	NDNL2	-7.26	9.31E-04
6760	NDOR1	-1.31	6.70E-03
6761	NDRG1	-1.64	2.29E-02
6762	NDRG3	-3.77	3.31E-03
6763	NDST3	-1.35	3.09E-02
6764	NDUFA1	-6.00	9.68E-04
6765	NDUFA10	-4.58	2.28E-04
6766	NDUFA11	-6.40	5.55E-04
6767	NDUFA12	-7.54	2.74E-05
6768	NDUFA2	-7.35	1.04E-04
6769	NDUFA4	-6.56	1.21E-03
6770	NDUFA5	-5.89	3.93E-04
6771	NDUFA6	-6.90	1.02E-03
6772	NDUFA7	-7.56	8.01E-04
6773	NDUFA8	-8.52	3.43E-05
6774	NDUFA9	-4.15	5.64E-04
6775	NDUFAB1	-6.60	2.08E-04
6776	NDUFAF1	-6.07	5.99E-04
6777	NDUFAF2	-6.07	1.51E-04
6778	NDUFAF4	-7.53	5.24E-04
6779	NDUFB1	-8.02	1.74E-04
6780	NDUFB10	-7.90	4.68E-04
6781	NDUFB2	-3.43	1.50E-03
6782	NDUFB3	-5.58	1.71E-04
6783	NDUFB5	-4.84	1.01E-04
6784	NDUFB6	-8.25	3.25E-04
6785	NDUFB8	-4.16	1.03E-03
6786	NDUFB9	-7.27	1.52E-04
6787	NDUFC2	-7.23	5.48E-05
6788	NDUFS1	-6.10	1.80E-04
6789	NDUFS3	-7.52	5.95E-04
6790	NDUFS4	-9.07	1.71E-04
6791	NDUFS5	-4.82	2.35E-04
6792	NDUFS6	-7.44	4.78E-04
6793	NDUFS8	-6.47	2.62E-04
6794	NDUFV1	-3.90	1.33E-04
6795	NDUFV2	-6.55	9.48E-06
6796	NECAP2	-2.78	1.65E-02

6797	NEDD1	-5.92	4.76E-04
6798	NEFL	-2.41	2.57E-03
6799	NEK2	-3.47	8.73E-04
6800	NEK3	-1.64	2.76E-03
6801	NEK6	-2.86	1.56E-03
6802	NEK7	-4.26	1.72E-04
6803	NELF	-2.18	2.02E-02
6804	NELL2	-4.34	1.79E-04
6805	NEMF	-7.09	1.42E-04
6806	NENF	-2.43	6.51E-03
6807	NET1	-5.58	1.21E-04
6808	NEUROD1	-2.23	3.77E-02
6809	NF2	-7.67	5.92E-05
6810	NFAM1	-5.04	4.97E-04
6811	NFIL3	-2.68	1.84E-03
6812	NFIX	-2.74	7.01E-04
6813	NFKB1	-2.35	1.29E-03
6814	NFKBIA	-3.59	1.70E-03
6815	NFS1	-3.43	4.07E-03
6816	NFU1	-7.11	4.25E-05
6817	NFYA	-1.47	4.46E-03
6818	NFYB	-3.81	4.52E-04
6819	NFYC	-4.21	1.04E-02
6820	NHP2	-2.61	2.03E-01
6821	NHP2L1	-2.66	2.63E-02
6822	NID1	-3.11	1.43E-05
6823	NIF3L1	-3.57	1.22E-03
6824	NINJ2	-3.53	1.11E-03
6825	NIP7	-3.97	8.83E-04
6826	NIPA1	-1.02	7.77E-04
6827	NIPA2	-2.00	2.11E-03
6828	NIPAL3	-2.72	8.01E-03
6829	NIPBL	-1.15	7.38E-04
6830	NIPSNAP1	-2.26	1.36E-02
6831	NIPSNAP3A	-1.88	5.12E-04
6832	NISCH	-1.52	3.19E-03
6833	NIT2	-6.89	2.74E-04
6834	NKAP	-4.42	3.47E-04
6835	NKIRAS1	-1.88	2.32E-03
6836	NKIRAS2	-2.47	4.11E-03
6837	NKRF	-1.62	6.95E-03
6838	NKTR	-2.60	5.35E-03
6839	NLK	-1.18	2.36E-03
6840	NMB	-5.85	6.29E-04
6841	NMBR	-1.87	3.06E-02
6842	NMD3	-2.62	3.18E-04
6843	NME2	-7.58	4.35E-04
6844	NME3	-1.82	3.87E-03
6845	NME4	-2.38	1.07E-01
6846	NME5	-7.29	4.25E-04
6847	NME6	-5.07	6.08E-04
6848	NMI	-4.25	2.27E-03
6849	NMT1	-5.18	3.70E-04
6850	NMT2	-2.96	1.27E-03
6851	NNF1	-2.66	1.29E-03
6852	NOA1	-1.49	5.22E-02
6853	NOB1	-5.47	4.31E-04
6854	NOL10	-3.84	1.74E-04
6855	NOL11	-4.58	6.44E-05
6856	NOL7	-4.73	1.91E-04
6857	NOM1	-1.85	4.67E-03
6858	NONO	-4.80	1.58E-04
6859	NOP14	-4.54	2.03E-04

6860	NOP16	-3.93	8.43E-04
6861	NOP2	-2.00	1.08E-03
6862	NOP56	-2.62	1.28E-03
6863	NOP58	-4.06	1.34E-03
6864	NOVA1	-1.90	6.83E-03
6865	NP9665207	-1.33	2.45E-02
6866	NP9665338	-5.22	2.52E-02
6867	NP9666011	-2.80	7.86E-02
6868	NP9666165	-2.51	6.36E-02
6869	NP9666776	-2.73	3.83E-02
6870	NP9666844	-3.41	1.90E-04
6871	NP9666891	-3.43	4.00E-03
6872	NP9667176	-3.17	1.53E-03
6873	NP9667974	-1.26	6.25E-02
6874	NP9667992	-1.38	1.24E-02
6875	NP9668036	-2.78	1.59E-01
6876	NP9668076	-6.61	1.98E-04
6877	NP9668396	-2.25	2.59E-03
6878	NP9668692	-1.55	4.57E-02
6879	NP9669405	-3.11	1.88E-04
6880	NP9670087	-3.21	2.11E-02
6881	NP9670332	-3.56	1.18E-03
6882	NP9670503	-4.32	4.89E-04
6883	NP9670715	-5.65	7.07E-03
6884	NP9670951	-5.23	1.45E-04
6885	NP9671000	-1.67	5.41E-03
6886	NP9671157	-2.31	1.35E-02
6887	NP9671209	-2.57	8.03E-03
6888	NP9671587	-1.93	8.07E-03
6889	NP9672026	-2.29	1.01E-03
6890	NP9672261	-3.47	2.76E-04
6891	NP9672321	-1.72	4.78E-03
6892	NP9672471	-2.19	1.26E-02
6893	NP9672894	-1.54	1.93E-02
6894	NP9673267	-2.59	9.49E-04
6895	NP9673446	-2.35	5.42E-02
6896	NP9673556	-3.06	9.72E-04
6897	NP9673563	-1.45	1.56E-02
6898	NP9673909	-5.35	8.43E-04
6899	NP9674358	-5.87	4.29E-04
6900	NP9674417	-2.11	1.33E-02
6901	NP9674761	-3.33	6.17E-02
6902	NP9675060	-2.96	2.23E-02
6903	NP9675172	-1.65	1.06E-01
6904	NP9675550	-1.32	2.26E-02
6905	NP9675894	-5.42	1.15E-04
6906	NP9676001	-2.11	1.86E-03
6907	NP9676025	-1.56	5.63E-02
6908	NP9676219	-2.27	1.80E-01
6909	NP9677157	-3.25	1.24E-03
6910	NP9677271	-2.98	4.37E-03
6911	NP9677553	-1.27	9.23E-02
6912	NP9677820	-2.76	4.30E-03
6913	NP9678050	-2.69	1.65E-02
6914	NP9678544	-1.55	5.68E-03
6915	NP9678639	-8.12	4.24E-04
6916	NP9679065	-5.24	4.30E-04
6917	NP9679459	-2.18	3.48E-03
6918	NP9679748	-2.84	3.81E-03
6919	NP9680503	-7.31	1.87E-04
6920	NP9680619	-1.67	5.62E-02
6921	NPC1	-3.04	9.67E-03
6922	NPC2	-3.50	2.61E-04

6923	NPEPL1	-1.38	5.02E-03
6924	NPEPPS	-3.07	9.37E-03
6925	NPHP1	-5.31	3.94E-04
6926	NPHP3	-2.32	1.59E-04
6927	NPLOC4	-2.95	1.79E-03
6928	NPM1	-3.23	1.71E-03
6929	NPR1	-2.30	2.25E-03
6930	NPRL3	-2.96	1.56E-02
6931	NPTN	-4.18	2.86E-04
6932	NPY	-4.10	7.03E-03
6933	NQO2	-4.52	6.62E-04
6934	NROB1	-3.53	2.65E-03
6935	NROB2	-3.54	2.94E-03
6936	NR13	-4.17	3.02E-04
6937	NR1D2	-3.87	7.49E-05
6938	NR1H3	-1.77	1.71E-02
6939	NR2C1	-1.77	2.19E-03
6940	NR2C2	-2.01	5.54E-03
6941	NR2F2	-1.34	8.46E-03
6942	NR4A3	-4.23	3.42E-04
6943	NR5A1	-2.36	1.32E-02
6944	NRAS	-3.18	5.20E-04
6945	NRBF2	-2.81	7.56E-03
6946	NRD1	-8.36	6.17E-04
6947	NRDE2	-5.57	1.49E-04
6948	NREP	-3.47	2.35E-03
6949	NRG4	-6.01	3.15E-03
6950	NRK	-2.39	5.16E-04
6951	NRSN1	-2.44	5.53E-04
6952	NSA2	-6.57	4.14E-04
6953	NSF	-2.85	2.59E-03
6954	NSFL1C	-2.79	2.38E-03
6955	NSG1	-2.88	9.88E-03
6956	NSL1	-4.30	8.56E-04
6957	NSMAF	-3.42	9.44E-04
6958	NSMCE1	-4.75	1.37E-03
6959	NSMCE2	-6.52	5.01E-04
6960	NSMCE4A	-6.96	1.52E-04
6961	NSRP1	-4.31	1.24E-03
6962	NSUN2	-2.23	6.80E-04
6963	NSUN3	-4.44	9.48E-05
6964	NSUN6	-1.46	7.68E-03
6965	NSUN7	-3.07	4.31E-03
6966	NT5C2	-1.86	4.02E-02
6967	NT5C3L	-4.32	8.19E-03
6968	NT5DC2	-3.43	1.53E-03
6969	NTAN1	-2.41	1.27E-04
6970	NTHL1	-2.35	5.79E-04
6971	NTM	-3.76	3.06E-04
6972	NTPCR	-1.44	2.33E-02
6973	NUB1	-6.72	3.87E-05
6974	NUBP1	-6.41	1.88E-05
6975	NUBP2	-1.76	6.47E-03
6976	NUCB2	-4.82	1.73E-04
6977	NUCKS1	-3.29	7.06E-03
6978	NUDC	-6.73	2.95E-05
6979	NUDCD2	-1.12	8.39E-03
6980	NUDCD3	-3.69	7.65E-04
6981	NUDT1	-4.87	1.55E-03
6982	NUDT12	-2.44	7.89E-03
6983	NUDT13	-3.64	4.99E-03
6984	NUDT14	-5.49	2.09E-04
6985	NUDT15	-3.08	5.94E-03

6986	NUDT16L1	-3.47	1.83E-03
6987	NUDT19	-2.85	1.41E-03
6988	NUDT2	-3.46	2.65E-04
6989	NUDT4	-1.44	8.04E-05
6990	NUDT5	-4.57	8.16E-05
6991	NUDT7	-3.39	2.98E-03
6992	NUDT9	-4.59	7.86E-04
6993	NUF2	-2.05	5.32E-02
6994	NUFIP1	-4.01	4.04E-03
6995	NUMB	-1.44	5.97E-02
6996	NUP107	-5.25	2.13E-04
6997	NUP133	-2.54	2.09E-03
6998	NUP153	-4.14	1.14E-03
6999	NUP155	-4.75	2.21E-04
7000	NUP188	-3.24	2.27E-03
7001	NUP205	-1.20	2.04E-03
7002	NUP210L	-4.26	1.24E-03
7003	NUP35	-6.11	5.25E-04
7004	NUP37	-4.97	1.92E-04
7005	NUP43	-4.23	5.05E-04
7006	NUP50	-4.06	1.90E-03
7007	NUP54	-2.92	8.75E-03
7008	NUP62	-3.90	8.55E-05
7009	NUP85	-6.90	8.13E-05
7010	NUP88	-3.36	1.53E-02
7011	NUP93	-3.24	5.55E-04
7012	NUP98	-1.07	8.71E-03
7013	NUPL1	-4.22	2.69E-04
7014	NUPL2	-1.54	4.63E-04
7015	NUS1	-2.46	2.82E-04
7016	NUSAP1	-4.10	2.16E-04
7017	NUTF2	-6.87	4.79E-05
7018	NVL	-2.66	7.45E-03
7019	NXT2	-3.03	2.93E-02
7020	OAT	-6.23	7.05E-03
7021	OAZ1	-7.83	1.68E-04
7022	OAZ2	-5.18	1.11E-03
7023	OBFC1	-1.54	1.39E-04
7024	OBFC2A	-2.13	6.14E-05
7025	OCC-1	-3.59	8.49E-04
7026	OCIAD1	-5.20	1.46E-03
7027	ODC1	-6.10	8.32E-05
7028	ODF2	-4.53	6.79E-04
7029	ODF2L	-8.13	6.04E-05
7030	OFD1	-2.58	1.80E-03
7031	OGDH	-1.97	6.53E-03
7032	OGDHL	-3.46	1.03E-03
7033	OGT	-4.18	1.38E-04
7034	OIP5	-1.32	2.41E-03
7035	OLA1	-5.94	1.45E-04
7036	OLFML3	-2.77	2.60E-04
7037	OMA1	-5.94	2.85E-04
7038	OPA1	-2.32	6.58E-03
7039	OPHN1	-4.82	1.69E-04
7040	OPN5	-2.69	1.19E-02
7041	OPTN	-5.47	1.56E-04
7042	ORAI2	-4.96	8.93E-05
7043	ORAOV1	-3.92	1.85E-04
7044	ORC1	-5.12	2.39E-03
7045	ORC2	-3.65	2.83E-03
7046	ORC3	-2.73	1.79E-03
7047	ORC4	-5.57	9.61E-05
7048	ORC5	-2.15	1.74E-02

7049	ORC6	-2.99	1.57E-03
7050	ORMDL1	-3.34	2.51E-03
7051	ORMDL2	-3.99	2.19E-03
7052	OSBPL10	-3.13	1.68E-03
7053	OSBPL1A	-7.91	2.13E-04
7054	OSBPL3	-1.33	1.13E-02
7055	OSBPL8	-3.78	3.20E-04
7056	OSBPL9	-3.60	1.37E-03
7057	OSCP1	-4.00	9.96E-04
7058	OSGEPL1	-6.90	7.04E-04
7059	OST4	-6.96	5.43E-04
7060	OSTBETA	-6.58	1.16E-02
7061	OSTC	-6.11	1.18E-05
7062	OSTF1	-3.71	1.06E-03
7063	OTC	-1.25	8.99E-04
7064	OTOP1	-1.78	6.01E-03
7065	OTUD3	-4.37	2.29E-05
7066	OTUD6B	-5.24	4.85E-03
7067	OXA1L	-3.08	1.21E-02
7068	OXCT1	-3.28	9.64E-04
7069	OXNAD1	-4.12	7.37E-04
7070	OXR1	-1.33	2.90E-02
7071	OXSM	-2.01	7.85E-03
7072	P2RX1	-3.94	1.32E-03
7073	P2RX4	-1.34	4.66E-03
7074	P2RX5	-1.39	7.64E-03
7075	P33MONOX	-4.28	5.81E-04
7076	P4HA1	-2.00	2.61E-03
7077	P4HB	-4.74	6.00E-04
7078	PA2G4	-2.98	3.01E-03
7079	PABPC1	-8.95	3.29E-05
7080	PABPC4	-3.89	2.50E-04
7081	PACRG	-4.70	1.99E-06
7082	PACRGL	-4.51	7.06E-04
7083	PACS2	-3.38	2.74E-02
7084	PACSIN2	-5.51	2.06E-04
7085	PACSN3	-3.54	4.80E-04
7086	PAFAH1B1	-3.79	3.31E-03
7087	PAICS	-2.25	3.12E-03
7088	PAIP2	-7.22	4.70E-04
7089	PAK1	-1.56	1.85E-02
7090	PAK1IP1	-7.53	1.17E-04
7091	PALB2	-4.45	2.62E-04
7092	PALLD	-2.33	4.18E-03
7093	PAM16	-5.44	2.27E-03
7094	PAN3	-4.67	9.57E-04
7095	PANK1	-1.59	1.08E-03
7096	PANK2	-2.24	8.60E-04
7097	PANK3	-3.09	1.89E-02
7098	PANK4	-1.23	1.41E-03
7099	PAPD7	-2.95	1.59E-03
7100	PAPOLA	-4.72	8.77E-04
7101	PAPSS1	-4.10	2.58E-04
7102	PAQR8	-1.57	2.93E-02
7103	PARD3B	-1.16	7.35E-03
7104	PARD6B	-2.09	1.22E-04
7105	PARG	-3.26	5.13E-04
7106	PARK7	-7.56	3.19E-04
7107	PARL	-5.53	9.42E-05
7108	PARN	-1.29	3.81E-03
7109	PARP1	-6.36	2.55E-04
7110	PARP11	-5.69	3.70E-04
7111	PARP12	-8.24	6.57E-04

7112	PARP16	-4.35	2.79E-04
7113	PARP4	-2.37	4.28E-04
7114	PARP6	-2.62	2.97E-02
7115	PARP8	-5.53	7.21E-05
7116	PARP9	-1.94	9.10E-03
7117	PARS2	-2.24	1.57E-03
7118	PARVA	-3.80	4.87E-04
7119	PARVB	-2.02	5.38E-03
7120	PASK	-5.55	5.49E-05
7121	PAWR	-2.06	5.54E-03
7122	PAXIP1	-3.08	8.63E-04
7123	PBDC1	-5.65	1.81E-03
7124	PBK	-7.83	4.10E-05
7125	PBLD	-1.69	4.55E-03
7126	PBRM1	-2.76	7.39E-06
7127	PBX3	-2.82	6.06E-04
7128	PCBD1	-1.21	1.86E-02
7129	PCBD2	-5.02	3.17E-04
7130	PCCA	-2.41	1.21E-04
7131	PCCB	-5.68	1.83E-05
7132	PCDH15	-2.79	3.51E-03
7133	PCDH18	-1.78	5.09E-03
7134	PCDP1	-3.59	3.67E-03
7135	PCGF3	-1.41	8.84E-03
7136	PCGF6	-1.44	1.91E-02
7137	PCID2	-1.27	3.50E-03
7138	PCM1	-5.39	6.28E-05
7139	PCMT1	-6.53	9.21E-04
7140	PCMTD1	-2.56	5.26E-06
7141	PCNA	-4.04	6.03E-04
7142	PCNP	-2.71	1.01E-05
7143	PCNT	-4.48	3.32E-04
7144	PCOLCE2	-3.28	8.58E-03
7145	PCSK1	-4.47	1.21E-04
7146	PCSK5	-1.51	6.42E-03
7147	PCSK7	-1.69	3.39E-03
7148	PCTP	-1.26	4.38E-02
7149	PCYOX1	-3.21	3.54E-03
7150	PCYT1B	-8.78	3.23E-04
7151	PCYT2	-4.35	1.18E-03
7152	PDAP1	-2.96	1.20E-03
7153	PDCD10	-5.64	2.21E-04
7154	PDCD2	-6.62	3.68E-04
7155	PDCD2L	-3.64	5.66E-04
7156	PDCD4	-1.48	2.61E-03
7157	PDCD5	-3.75	1.02E-02
7158	PDCD6	-4.15	1.88E-02
7159	PDCD6IP	-2.78	7.70E-04
7160	PDCD7	-3.96	5.52E-04
7161	PDCL	-2.07	3.23E-03
7162	PDCL2	-8.86	2.62E-04
7163	PDDC1	-1.97	3.66E-03
7164	PDE10A	-2.79	1.52E-03
7165	PDE4B	-1.11	7.84E-03
7166	PDE4D	-1.41	1.26E-03
7167	PDE6D	-4.83	2.08E-03
7168	PDE8A	-1.27	2.54E-03
7169	PDGFRD	-1.42	3.92E-02
7170	PDGFRL	-3.68	7.77E-04
7171	PDHA1	-5.51	7.55E-04
7172	PDHB	-4.73	3.99E-05
7173	PDHX	-3.08	1.02E-02
7174	PDIA3	-4.01	2.31E-04

7175	PDIA4	-3.04	7.54E-04
7176	PDIA5	-3.31	6.34E-03
7177	PDIA6	-4.57	2.84E-04
7178	PDIK1L	-3.51	6.10E-04
7179	PKK1	-2.30	9.49E-03
7180	PKK3	-4.63	6.58E-04
7181	PDLIM1	-2.82	5.47E-03
7182	PDLIM5	-1.45	1.33E-02
7183	PDP1	-3.49	1.66E-03
7184	PDPK1	-4.52	1.11E-03
7185	PDRG1	-5.09	3.96E-04
7186	PDSSA	-3.15	2.56E-04
7187	PDSSB	-2.94	6.35E-03
7188	PDSS1	-1.46	9.34E-03
7189	PDSS2	-6.08	1.57E-04
7190	PDXDC1	-1.34	1.65E-03
7191	PDXK	-5.45	1.48E-03
7192	PDZD11	-4.13	1.05E-04
7193	PDZD8	-6.38	1.56E-04
7194	PEAK1	-1.14	1.45E-02
7195	PEBP1	-6.69	1.41E-04
7196	PECR	-4.77	1.29E-03
7197	PEF1	-3.26	2.06E-03
7198	PELI1	-3.83	1.47E-04
7199	PELI2	-4.41	7.17E-04
7200	PELO	-1.54	3.91E-02
7201	PENK	-6.86	1.55E-03
7202	PEPD	-2.66	3.00E-02
7203	PER2	-3.61	1.15E-03
7204	PET112	-1.92	3.58E-03
7205	PEX1	-3.33	1.98E-03
7206	PEX10	-5.00	3.22E-04
7207	PEX11A	-2.46	2.74E-03
7208	PEX11G	-5.54	2.60E-04
7209	PEX12	-2.29	8.51E-04
7210	PEX13	-3.19	2.97E-04
7211	PEX14	-2.06	1.47E-03
7212	PEX16	-2.81	2.26E-03
7213	PEX2	-3.16	2.62E-04
7214	PEX3	-4.80	4.17E-04
7215	PEX6	-3.90	3.66E-03
7216	PEX7	-3.60	7.81E-04
7217	PFDN1	-5.44	1.11E-04
7218	PFDN4	-5.61	1.11E-04
7219	PFKM	-1.48	1.86E-03
7220	PFKP	-7.30	9.85E-05
7221	PFN2	-4.53	2.49E-03
7222	PFN3	-4.13	1.86E-02
7223	PFN4	-5.71	1.03E-03
7224	PGAM1	-6.26	1.27E-03
7225	PGBD5	-4.53	2.00E-04
7226	PGD	-2.69	1.44E-03
7227	PGGT1B	-2.40	6.97E-04
7228	PGK1	-5.26	8.25E-04
7229	PGM1	-1.23	5.97E-03
7230	PGM2	-1.76	5.85E-03
7231	PGP	-4.72	1.04E-03
7232	PGPEP1	-1.50	2.33E-03
7233	PGR	-1.32	2.94E-03
7234	PGRMC1	-6.10	1.02E-03
7235	PGRMC2	-5.19	6.01E-04
7236	PGS1	-3.32	2.79E-03
7237	PHACTR3	-1.67	1.53E-03

7238	PHAX	-3.76	1.14E-03
7239	PHB	-3.38	7.82E-04
7240	PHB2	-5.99	1.45E-04
7241	PHC1	-2.12	2.66E-03
7242	PHC3	-1.80	4.34E-03
7243	PHF13	-1.42	2.15E-02
7244	PHF15	-3.39	1.36E-03
7245	PHF17	-4.10	3.00E-03
7246	PHF20	-4.91	7.24E-05
7247	PHF20L1	-2.45	3.51E-05
7248	PHF3	-3.19	5.50E-04
7249	PHF5A	-4.94	4.44E-04
7250	PHF6	-2.07	2.34E-03
7251	PHKA2	-2.73	4.01E-03
7252	PHKB	-3.13	3.51E-03
7253	PHKG1	-5.06	2.19E-03
7254	PHOSPHO2	-1.14	2.05E-02
7255	PHPT1	-4.51	6.71E-05
7256	PHTF1	-2.54	3.55E-04
7257	PHTF2	-1.76	9.52E-03
7258	PHYH	-4.86	4.98E-03
7259	PHYHPL	-1.75	8.74E-03
7260	PI4K2B	-3.76	2.49E-02
7261	PI4KA	-1.45	3.14E-03
7262	PIAS1	-2.69	5.76E-03
7263	PIAS2	-1.27	9.80E-03
7264	PIBF1	-2.71	3.26E-04
7265	PICK1	-6.09	1.82E-04
7266	PIF1	-1.48	9.94E-03
7267	PIGG	-2.22	9.47E-04
7268	PIGK	-4.66	4.06E-04
7269	PIGL	-3.32	8.46E-04
7270	PIGM	-3.46	3.22E-03
7271	PIGN	-2.27	1.07E-03
7272	PIGP	-5.63	4.03E-04
7273	PIGW	-2.11	2.02E-02
7274	PIGX	-2.87	1.26E-02
7275	PIH1D2	-3.12	8.07E-03
7276	PIH1D3	-6.61	1.57E-04
7277	PIK3AP1	-1.85	1.64E-03
7278	PIK3C2A	-1.54	6.10E-03
7279	PIK3CA	-2.93	1.53E-03
7280	PIK3CB	-4.80	8.64E-04
7281	PIK3R3	-4.75	7.27E-04
7282	PIK3R4	-1.36	8.54E-03
7283	PIN4	-6.91	5.28E-05
7284	PINX1	-1.62	3.28E-03
7285	PIP4K2A	-3.94	7.65E-04
7286	PIP4K2B	-1.35	3.02E-02
7287	PIP5K1B	-3.37	7.91E-05
7288	PIP5K1C	-1.46	1.69E-03
7289	PITHD1	-2.78	4.23E-03
7290	PITPNB	-2.00	1.44E-02
7291	PITPNC1	-4.00	1.83E-05
7292	PITPNM3	-1.33	4.89E-02
7293	PITRM1	-4.90	5.38E-04
7294	PITX2	-4.33	6.07E-03
7295	PIWIL1	-4.36	6.65E-03
7296	PJA2	-5.62	3.30E-04
7297	PKD2	-1.57	8.38E-02
7298	PKIG	-5.74	1.35E-04
7299	PKM2	-1.98	9.88E-03
7300	PKN2	-1.06	9.67E-03

7301	PKP4	-2.22	3.79E-03
7302	PLA2R1	-1.47	3.08E-03
7303	PLAA	-5.49	1.92E-04
7304	PLAC8	-4.43	1.38E-03
7305	PLAU	-2.22	1.62E-03
7306	PLBD1	-1.89	2.81E-02
7307	PLBD2	-1.36	6.22E-03
7308	PLCB1	-2.48	1.20E-02
7309	PLCXD2	-4.92	3.23E-04
7310	PLCZ1	-7.12	5.32E-03
7311	PLDN	-2.44	7.17E-03
7312	PLEKHA3	-4.57	4.56E-03
7313	PLEKHA5	-3.75	1.20E-03
7314	PLEKHA8	-3.87	1.86E-04
7315	PLEKHF2	-1.63	4.19E-03
7316	PLEKHJ1	-2.36	1.51E-02
7317	PLEKHM1	-2.36	6.88E-04
7318	PLK1	-1.40	1.07E-02
7319	PLK1S1	-4.22	3.09E-04
7320	PLOD1	-3.78	2.68E-03
7321	PLRG1	-5.09	1.50E-03
7322	PLS1	-1.72	9.59E-04
7323	PM2OD1	-5.29	4.45E-04
7324	PMM2	-1.81	7.44E-05
7325	PMP22	-1.29	1.11E-03
7326	PMPCA	-3.45	3.54E-03
7327	PMPCB	-5.26	1.31E-04
7328	PMS1	-4.53	8.20E-05
7329	PNISR	-2.92	1.72E-04
7330	PNLDC1	-4.43	5.45E-04
7331	PNN	-5.56	6.09E-04
7332	PNO1	-5.70	3.44E-04
7333	PNPLA3	-2.54	7.52E-05
7334	PNPLA4	-1.87	3.66E-02
7335	PNPLA7	-1.46	1.53E-03
7336	PNPLA8	-6.16	8.96E-04
7337	PNRC1	-4.55	4.23E-03
7338	PNRC2	-3.66	1.20E-03
7339	POC1A	-2.30	2.42E-02
7340	POC5	-3.26	3.25E-03
7341	POF1B	-2.65	4.11E-03
7342	POFUT1	-1.23	4.52E-03
7343	POFUT2	-2.10	8.58E-04
7344	POGLUT1	-2.05	2.32E-04
7345	POLA1	-2.17	1.88E-03
7346	POLD3	-4.60	1.84E-04
7347	POLDIP3	-4.51	6.45E-04
7348	POLE2	-5.46	1.73E-03
7349	POLE3	-3.58	2.01E-03
7350	POLG2	-3.68	3.56E-04
7351	POLN	-2.34	1.04E-02
7352	POLR1C	-4.80	3.89E-04
7353	POLR2B	-6.11	5.38E-06
7354	POLR2C	-3.31	1.18E-02
7355	POLR2D	-5.48	1.90E-05
7356	POLR2E	-5.01	8.71E-04
7357	POLR2F	-6.97	5.59E-05
7358	POLR2H	-4.77	6.90E-05
7359	POLR2I	-5.24	1.17E-04
7360	POLR2K	-4.97	8.98E-05
7361	POLR2L	-5.99	1.24E-04
7362	POLR3A	-1.75	3.66E-02
7363	POLR3B	-2.69	2.26E-03

7364	POLR3E	-1.28	6.47E-04
7365	POLR3F	-3.75	1.95E-03
7366	POLR3H	-4.03	1.51E-04
7367	PON2	-4.69	9.88E-04
7368	POP4	-4.74	9.09E-04
7369	POP5	-4.74	2.59E-03
7370	POT1	-2.37	2.34E-02
7371	PPA1	-5.08	4.08E-04
7372	PPA2	-3.50	1.84E-03
7373	PPAP2A	-3.47	1.14E-03
7374	PPAPDC1B	-1.77	2.84E-04
7375	PPARA	-3.67	9.01E-05
7376	PPARD	-2.56	2.50E-04
7377	PPAT	-2.31	3.24E-03
7378	PPDPF	-3.49	6.83E-04
7379	PPEF1	-4.54	1.14E-03
7380	PPFIA1	-4.01	6.92E-05
7381	PPFIBP1	-3.72	5.06E-04
7382	PPHLN1	-3.06	1.42E-04
7383	PPIA	-6.84	1.93E-04
7384	PIIB	-5.90	2.86E-04
7385	PPIC	-2.30	7.94E-03
7386	PPID	-7.09	1.25E-04
7387	PPIE	-3.73	3.71E-04
7388	PIIF	-2.21	3.82E-03
7389	PIIG	-5.33	4.72E-05
7390	PIIH	-4.28	7.44E-05
7391	PPIL2	-3.75	2.78E-04
7392	PPIL3	-3.69	6.14E-04
7393	PPIL4	-4.14	9.96E-04
7394	PPIL6	-6.00	2.63E-04
7395	PPIP5K2	-6.39	3.56E-04
7396	PPM1A	-1.78	5.34E-04
7397	PPM1B	-3.74	4.20E-04
7398	PPM1D	-4.01	9.50E-05
7399	PPM1K	-2.65	1.14E-02
7400	PPM1L	-1.29	1.00E-02
7401	PPME1	-2.01	4.03E-03
7402	PPP1CC	-5.35	4.10E-04
7403	PPP1R12A	-3.36	1.72E-03
7404	PPP1R13B	-5.57	2.87E-04
7405	PPP1R17	-1.63	3.39E-03
7406	PPP1R2	-5.97	4.44E-04
7407	PPP1R21	-4.40	2.12E-03
7408	PPP1R36	-7.07	9.42E-05
7409	PPP1R7	-7.97	6.02E-05
7410	PPP1R8	-1.19	1.95E-02
7411	PPP1R9B	-3.97	1.47E-03
7412	PPP2CA	-2.93	1.60E-03
7413	PPP2CB	-3.18	7.74E-04
7414	PPP2R2C	-4.45	4.83E-03
7415	PPP2R2D	-3.77	5.20E-05
7416	PPP2R3B	-3.49	6.15E-05
7417	PPP2R3C	-4.41	2.92E-04
7418	PPP2R5A	-3.33	5.46E-04
7419	PPP2R5E	-1.87	7.83E-03
7420	PPP3CA	-4.66	3.15E-03
7421	PPP3R1	-4.38	3.58E-04
7422	PPP4R2	-5.93	2.07E-03
7423	PPP6C	-1.41	9.75E-03
7424	PPP6R3	-3.92	1.91E-03
7425	PPPDE2	-5.81	2.87E-03
7426	PPRC1	-1.90	1.55E-03

7427	PPT1	-4.41	3.08E-03
7428	PPWD1	-4.94	8.03E-04
7429	PQLC2	-3.16	2.97E-03
7430	PRADC1	-3.39	7.56E-05
7431	PRC1	-2.43	3.13E-03
7432	PRCC	-1.20	1.24E-02
7433	PRDM4	-2.89	7.87E-04
7434	PRDX1	-5.91	5.87E-05
7435	PRDX3	-3.30	7.34E-04
7436	PRDX4	-6.43	9.46E-05
7437	PRDX6	-7.19	8.51E-05
7438	PRELID1	-7.19	1.22E-04
7439	PREP	-3.53	3.82E-03
7440	PRIM2	-1.65	4.38E-03
7441	PRKAA1	-1.51	1.06E-04
7442	PRKAB1	-3.72	2.58E-03
7443	PRKAB2	-4.33	1.98E-04
7444	PRKACB	-2.00	5.00E-03
7445	PRKAG2	-4.01	2.51E-04
7446	PRKAR1A	-5.30	1.50E-04
7447	PRKAR1B	-2.25	6.85E-03
7448	PRKCD	-2.90	6.05E-04
7449	PRKCZ	-2.20	5.59E-03
7450	PRKRIP1	-3.60	1.66E-04
7451	PRKRIR	-1.38	5.39E-02
7452	PRLR	-1.94	1.25E-02
7453	PRMT10	-4.36	9.93E-04
7454	PRMT3	-1.93	9.50E-04
7455	PRMT7	-4.69	7.93E-04
7456	PRMT8	-1.11	8.92E-03
7457	PROSC	-2.82	8.06E-04
7458	PROSER1	-2.13	2.85E-03
7459	PROSER2	-2.83	2.43E-03
7460	PRPF3	-3.67	1.64E-03
7461	PRPF38A	-4.12	1.93E-04
7462	PRPF38B	-1.77	2.48E-03
7463	PRPF4	-2.15	1.25E-03
7464	PRPF40A	-7.07	9.21E-05
7465	PRPF4B	-2.35	9.08E-03
7466	PRPF8	-3.30	6.69E-04
7467	PRPS1	-3.04	3.82E-05
7468	PRPSAP1	-1.61	1.07E-02
7469	PRPSAP2	-5.29	1.40E-04
7470	PRR11	-4.54	2.53E-04
7471	PRRC1	-2.55	2.18E-03
7472	PRSS12	-4.01	1.20E-03
7473	PRSS55	-5.90	1.25E-03
7474	PSAP	-6.88	1.28E-04
7475	PSAT1	-1.33	3.42E-03
7476	PSD3	-2.95	5.25E-03
7477	PSEN1	-2.92	3.80E-04
7478	PSIP1	-6.33	2.33E-04
7479	PSMA1	-7.31	8.66E-04
7480	PSMA2	-5.29	2.48E-04
7481	PSMA3	-7.27	1.10E-04
7482	PSMA4	-7.14	7.63E-05
7483	PSMA5	-5.51	7.09E-05
7484	PSMA6	-6.69	3.46E-05
7485	PSMA7	-6.47	2.89E-04
7486	PSMB1	-5.80	3.47E-04
7487	PSMB2	-3.73	5.63E-04
7488	PSMB3	-4.75	1.09E-04
7489	PSMB4	-7.42	1.83E-05

7490	PSMB5	-3.62	4.36E-04
7491	PSMC1	-6.16	8.17E-05
7492	PSMC2	-7.82	9.50E-05
7493	PSMC3	-5.03	1.62E-04
7494	PSMC5	-6.71	8.23E-06
7495	PSMC6	-5.99	4.97E-04
7496	PSMD1	-3.92	1.36E-02
7497	PSMD10	-5.56	1.74E-04
7498	PSMD12	-5.98	5.39E-05
7499	PSMD14	-2.54	1.98E-04
7500	PSMD2	-1.64	1.97E-03
7501	PSMD3	-5.23	6.74E-06
7502	PSMD4	-2.97	1.89E-03
7503	PSMD5	-1.95	2.14E-02
7504	PSMD6	-4.62	1.20E-03
7505	PSMD7	-4.74	1.01E-04
7506	PSMD9	-2.64	9.25E-05
7507	PSME3	-5.67	3.56E-04
7508	PSME4	-4.30	6.48E-04
7509	PSMF1	-5.03	5.97E-06
7510	PSMG1	-6.10	1.08E-04
7511	PSMG2	-6.67	3.61E-04
7512	PSMG3	-3.26	4.54E-04
7513	PSPC1	-5.30	3.48E-04
7514	PSPH	-5.73	5.40E-05
7515	PTBP1	-2.72	3.33E-04
7516	PTCD1	-2.74	5.74E-04
7517	PTCD2	-4.51	1.94E-03
7518	PTDSS1	-2.71	3.01E-03
7519	PTEN	-6.39	3.79E-04
7520	PTER	-1.35	1.87E-02
7521	PTGDS	-2.50	3.64E-02
7522	PTGES2	-1.97	1.23E-03
7523	PTGR1	-4.80	3.76E-04
7524	PTK7	-2.14	2.62E-04
7525	PTMA	-4.75	8.12E-03
7526	PTMS	-1.65	5.63E-04
7527	PTN	-3.61	1.88E-03
7528	PTP4A1	-3.34	1.69E-03
7529	PTP4A2	-4.79	7.80E-03
7530	PTP4A3	-2.01	5.98E-03
7531	PTPDC1	-3.41	1.37E-04
7532	PTPLA	-1.83	2.14E-03
7533	PTPLAD1	-5.26	1.02E-04
7534	PTPLB	-4.11	5.97E-04
7535	PTPN11	-3.62	9.47E-04
7536	PTPN2	-3.32	2.30E-04
7537	PTPN4	-2.16	6.82E-03
7538	PTPN5	-5.54	1.49E-03
7539	PTPRG	-1.26	1.98E-02
7540	PTPRT	-1.15	7.69E-03
7541	PTRH2	-5.50	2.32E-04
7542	PTRHD1	-3.80	3.51E-03
7543	PTS	-2.88	6.69E-04
7544	PTTG1	-8.78	9.28E-05
7545	PTTG1IP	-1.76	5.65E-03
7546	PUF60	-5.90	2.08E-04
7547	PUM1	-3.23	7.32E-04
7548	PUM2	-4.12	2.08E-03
7549	PURG	-2.39	7.49E-04
7550	PUS1	-2.71	2.47E-03
7551	PUS10	-3.03	5.98E-04
7552	PUS7	-3.90	1.33E-04

7553	PUS7L	-2.75	2.09E-03
7554	PVRL3	-5.44	1.15E-04
7555	PWP1	-3.09	1.69E-04
7556	PWP2	-1.15	7.62E-03
7557	PXK	-3.03	5.91E-04
7558	PXMP4	-2.33	6.38E-02
7559	PYCRL	-2.07	1.72E-03
7560	PYROXD1	-3.72	4.10E-03
7561	QARS	-3.26	3.46E-04
7562	QDPR	-4.79	5.97E-04
7563	QKI	-2.48	2.51E-03
7564	QPCT	-2.12	3.75E-03
7565	QRICH1	-1.69	1.57E-03
7566	QRS11	-3.84	1.05E-03
7567	QSER1	-1.98	1.64E-03
7568	QSOX2	-2.59	6.78E-07
7569	QTRTD1	-2.24	8.40E-03
7570	R3HCC1	-3.66	6.02E-04
7571	R3HDM1	-3.36	7.56E-04
7572	R3HDM2	-3.09	7.96E-05
7573	RAB10	-2.16	1.12E-02
7574	RAB11A	-5.79	1.64E-04
7575	RAB11B	-2.99	5.03E-03
7576	RAB11FIP1	-1.39	1.72E-02
7577	RAB11FIP2	-2.03	2.14E-03
7578	RAB11FIP4	-6.26	2.82E-04
7579	RAB11FIP5	-3.21	7.09E-04
7580	RAB12	-1.82	2.90E-03
7581	RAB14	-1.64	9.03E-04
7582	RAB17	-1.38	3.08E-03
7583	RAB18	-4.47	2.56E-04
7584	RAB1A	-5.89	1.07E-04
7585	RAB21	-2.36	6.06E-05
7586	RAB22A	-1.46	2.81E-02
7587	RAB23	-3.39	3.33E-04
7588	RAB24	-4.02	7.40E-04
7589	RAB28	-3.48	1.58E-03
7590	RAB2A	-4.25	8.66E-05
7591	RAB33B	-2.09	5.38E-03
7592	RAB35	-2.63	1.14E-03
7593	RAB36	-3.76	3.90E-03
7594	RAB3B	-1.83	9.80E-03
7595	RAB3GAP1	-2.49	5.72E-03
7596	RAB3GAP2	-1.72	1.91E-02
7597	RAB3IP	-3.64	7.17E-04
7598	RAB40B	-3.59	8.72E-04
7599	RAB4A	-1.70	1.41E-02
7600	RAB5A	-2.81	1.25E-02
7601	RAB5C	-2.24	3.30E-02
7602	RAB6A	-3.44	3.95E-03
7603	RAB7A	-4.89	1.41E-04
7604	RAB8A	-4.29	9.31E-04
7605	RAB8B	-5.94	1.86E-04
7606	RAB9A	-4.94	1.45E-03
7607	RABEP1	-4.50	6.82E-04
7608	RABEPK	-5.80	1.16E-04
7609	RABGAP1	-2.21	9.49E-03
7610	RABGAP1L	-1.19	4.36E-03
7611	RABGEF1	-2.32	4.40E-03
7612	RABGGTB	-3.07	2.09E-04
7613	RABL2B	-1.67	1.79E-02
7614	RABL3	-1.86	2.67E-02
7615	RABL5	-6.15	1.30E-04

7616	RAC1	-6.28	9.92E-04
7617	RAC3	-2.59	2.69E-03
7618	RACGAP1	-7.69	1.57E-04
7619	RAD1	-4.15	2.75E-03
7620	RAD17	-3.41	1.04E-03
7621	RAD18	-5.21	4.06E-04
7622	RAD21	-4.52	2.92E-04
7623	RAD23B	-1.87	2.62E-03
7624	RAD50	-1.78	3.20E-03
7625	RAD51	-5.96	1.42E-04
7626	RAD51C	-3.14	1.69E-03
7627	RAD51D	-2.88	6.45E-05
7628	RAD52	-3.72	7.33E-05
7629	RAD54B	-2.83	1.37E-03
7630	RAD54L2	-3.42	1.84E-05
7631	RAE1	-2.02	1.73E-03
7632	RAGE	-4.28	1.88E-03
7633	RAI2	-3.48	3.77E-03
7634	RALA	-6.92	3.55E-04
7635	RALB	-5.64	8.19E-04
7636	RALBP1	-5.23	2.08E-04
7637	RALGAPA1	-1.21	1.46E-02
7638	RALGAPA2	-1.05	5.82E-03
7639	RALGAPB	-2.59	3.05E-03
7640	RALGPS2	-4.63	6.06E-04
7641	RAN	-7.37	3.24E-05
7642	RANBP1	-6.11	1.01E-04
7643	RANBP10	-2.36	1.74E-03
7644	RANBP2	-4.43	1.58E-03
7645	RANBP3	-2.11	3.09E-03
7646	RANBP9	-4.93	1.80E-03
7647	RANGAP1	-3.84	3.49E-03
7648	RAP1A	-2.46	1.10E-02
7649	RAP1B	-2.24	4.19E-03
7650	RAP1GAP	-2.69	4.87E-04
7651	RAP1GDS1	-4.05	2.11E-04
7652	RAP2A	-3.11	7.84E-03
7653	RARRES1	-4.43	1.19E-04
7654	RARS	-4.26	9.17E-04
7655	RARS2	-3.97	1.92E-03
7656	RASA1	-3.52	2.42E-04
7657	RASA2	-1.07	3.33E-03
7658	RASA3	-3.98	7.80E-04
7659	RASAL2	-4.90	1.99E-04
7660	RASD1	-1.27	1.46E-01
7661	RASGEF1A	-3.91	3.21E-03
7662	RASSF1	-2.51	9.78E-03
7663	RASSF3	-3.18	1.66E-03
7664	RASSF8	-3.48	8.90E-04
7665	RB1	-1.66	5.86E-02
7666	RB1CC1	-2.38	8.84E-04
7667	RBBP4	-5.17	3.18E-04
7668	RBBP5	-2.65	2.00E-03
7669	RBBP6	-4.09	1.46E-03
7670	RBBP7	-5.08	3.09E-03
7671	RBBP8	-2.88	1.90E-03
7672	RBFA	-2.53	3.30E-03
7673	RBFOX2	-2.72	8.64E-03
7674	RBKS	-1.49	2.28E-02
7675	RBM12	-2.31	9.36E-03
7676	RBM12B	-3.80	6.26E-04
7677	RBM14	-1.86	7.56E-03
7678	RBM17	-5.05	3.94E-04

7679	RBM18	-5.37	2.68E-04
7680	RBM19	-3.40	9.32E-05
7681	RBM22	-5.37	3.03E-04
7682	RBM25	-3.95	1.07E-03
7683	RBM26	-2.34	1.09E-02
7684	RBM39	-2.19	1.50E-02
7685	RBM43	-3.13	1.79E-04
7686	RBM45	-1.98	3.71E-03
7687	RBM46	-6.53	1.52E-04
7688	RBM48	-3.92	4.39E-04
7689	RBM5	-5.15	2.54E-04
7690	RBM6	-2.77	2.18E-02
7691	RBM7	-4.15	2.11E-03
7692	RBMX	-3.40	1.07E-03
7693	RBP5	-5.27	1.25E-03
7694	RBX1	-6.89	1.74E-04
7695	RC3H2	-1.23	1.38E-02
7696	RCAN3	-3.82	3.70E-03
7697	RCBTB1	-4.05	2.22E-05
7698	RCCD1	-2.67	1.90E-03
7699	RCHY1	-3.89	4.67E-03
7700	RCL1	-5.27	8.84E-04
7701	RCN2	-4.24	1.97E-03
7702	RCOR1	-2.38	6.01E-04
7703	RD3	-2.55	6.51E-03
7704	RDH12	-2.96	1.66E-03
7705	RDH14	-2.59	8.75E-03
7706	RDX	-3.62	6.97E-04
7707	RECQL	-3.33	2.18E-04
7708	REEP5	-3.65	2.17E-03
7709	REEP6	-4.78	1.51E-03
7710	RELL1	-1.80	1.85E-02
7711	REPS1	-1.39	5.32E-02
7712	RER1	-3.46	6.40E-03
7713	RERE	-1.92	8.66E-02
7714	RERG	-3.66	2.57E-03
7715	REST	-4.54	4.75E-05
7716	REV1	-4.33	7.96E-04
7717	REXO1	-5.45	4.57E-05
7718	REXO2	-6.45	6.20E-05
7719	REXO4	-2.32	1.27E-02
7720	RFC1	-5.91	5.07E-04
7721	RFC2	-2.73	5.88E-03
7722	RFC3	-5.95	2.24E-03
7723	RFC4	-5.33	2.06E-04
7724	RFFL	-2.37	2.70E-04
7725	RFK	-3.65	3.68E-05
7726	RFNG	-3.36	2.37E-04
7727	RFT1	-3.79	1.48E-03
7728	RFTN1	-4.22	5.04E-04
7729	RFX3	-5.14	1.49E-04
7730	RFX6	-3.16	6.12E-04
7731	RFXANK	-2.83	1.14E-03
7732	RG9MTD1	-3.05	5.53E-03
7733	RG9MTD2	-7.16	3.99E-04
7734	RGL1	-4.76	3.98E-04
7735	RGN	-3.70	1.86E-03
7736	RG510	-2.73	1.26E-03
7737	RG512	-1.49	3.81E-03
7738	RG52	-5.26	1.65E-04
7739	RHEB	-2.53	2.34E-03
7740	RHOA	-4.73	5.50E-04
7741	RHOB	-3.31	2.98E-03

7742	RHOQ	-1.57	7.20E-04
7743	RHOT1	-3.98	7.73E-04
7744	RHOT2	-1.48	4.70E-03
7745	RHPN1	-2.02	2.61E-03
7746	RIBC2	-7.08	1.60E-04
7747	RIC3	-8.43	3.21E-04
7748	RIC8B	-4.80	9.43E-05
7749	RICTOR	-2.76	3.55E-03
7750	RIF1	-3.05	1.94E-04
7751	RILPL1	-2.25	3.41E-02
7752	RILPL2	-4.72	2.91E-03
7753	RIN2	-1.61	1.69E-04
7754	RIOK2	-4.65	2.33E-04
7755	RIOK3	-2.97	2.50E-03
7756	RIT1	-1.68	1.00E-02
7757	RLBP1	-1.98	4.43E-03
7758	RLF	-2.59	3.21E-04
7759	RLIM	-2.77	1.73E-03
7760	RMI1	-5.97	6.69E-04
7761	RMND1	-5.70	3.99E-04
7762	RMNDSA	-2.81	3.35E-03
7763	RNASEH1	-4.05	7.86E-04
7764	RNASEH2B	-1.79	9.87E-04
7765	RND3	-1.74	1.01E-03
7766	RNF10	-2.73	5.78E-05
7767	RNF103	-5.08	8.83E-04
7768	RNF111	-1.79	1.99E-04
7769	RNF113A	-5.55	1.09E-04
7770	RNF114	-4.78	5.23E-05
7771	RNF13	-6.16	4.00E-04
7772	RNF130	-5.69	5.87E-04
7773	RNF139	-5.82	4.35E-05
7774	RNF14	-4.28	1.94E-04
7775	RNF141	-3.65	4.70E-03
7776	RNF144A	-2.92	3.18E-03
7777	RNF149	-4.53	1.28E-04
7778	RNF151	-3.10	2.33E-03
7779	RNF152	-3.76	3.26E-04
7780	RNF166	-2.47	1.03E-02
7781	RNF169	-1.48	1.17E-02
7782	RNF170	-1.38	1.82E-02
7783	RNF185	-1.82	6.92E-02
7784	RNF20	-5.76	7.34E-05
7785	RNF214	-3.44	4.77E-03
7786	RNF216	-6.01	3.20E-03
7787	RNF217	-5.11	3.54E-04
7788	RNF219	-1.81	1.28E-02
7789	RNF32	-1.89	1.13E-02
7790	RNF34	-1.66	3.46E-02
7791	RNF38	-1.68	4.13E-02
7792	RNF4	-4.36	5.56E-03
7793	RNF41	-3.43	2.34E-03
7794	RNF7	-1.91	6.33E-03
7795	RNF8	-1.55	9.80E-03
7796	RNFT1	-2.92	1.10E-03
7797	RNH1	-4.84	3.61E-03
7798	RNLS	-2.88	4.51E-03
7799	RNMT	-2.94	1.67E-03
7800	RNMTL1	-1.94	1.90E-03
7801	RNPC3	-1.98	8.19E-03
7802	RNPEPL1	-1.33	2.70E-03
7803	RNPS1	-1.15	1.79E-03
7804	ROCK1	-3.05	4.40E-05

7805	ROCK2	-2.33	2.30E-03
7806	ROGDI	-2.74	6.94E-03
7807	ROMO1	-6.38	4.22E-04
7808	ROPN1L	-8.56	6.72E-04
7809	RORA	-2.51	2.62E-03
7810	RP2	-4.14	1.23E-03
7811	RP9	-2.24	5.18E-02
7812	RPA1	-4.75	2.05E-04
7813	RPA2	-4.34	8.54E-05
7814	RPA3	-5.99	4.07E-04
7815	RPAIN	-5.21	1.87E-03
7816	RPAP1	-1.59	2.06E-02
7817	RPAP2	-2.59	5.48E-04
7818	RPAP3	-5.05	1.57E-04
7819	RPE	-3.78	1.04E-03
7820	RPF1	-3.77	3.66E-05
7821	RPF2	-4.64	1.94E-03
7822	RPH3A	-2.82	8.05E-04
7823	RPIA	-1.85	2.23E-03
7824	RPL10A	-7.39	5.14E-04
7825	RPL10L	-6.92	4.57E-03
7826	RPL11	-7.44	2.24E-04
7827	RPL12	-8.08	1.53E-04
7828	RPL13	-8.06	1.89E-05
7829	RPL14	-8.23	3.10E-05
7830	RPL15	-7.53	8.39E-05
7831	RPL18A	-7.73	9.22E-04
7832	RPL19	-7.42	2.59E-04
7833	RPL21	-7.02	9.09E-05
7834	RPL22	-4.76	2.39E-03
7835	RPL23	-7.71	4.96E-04
7836	RPL23A	-8.46	2.09E-05
7837	RPL24	-8.33	2.15E-04
7838	RPL26L1	-8.74	6.22E-06
7839	RPL27	-7.21	2.27E-04
7840	RPL27A	-7.82	1.83E-04
7841	RPL29	-8.46	3.18E-04
7842	RPL3	-7.06	4.10E-04
7843	RPL30	-8.97	5.12E-05
7844	RPL32	-8.51	2.60E-05
7845	RPL35	-8.51	5.03E-05
7846	RPL35A	-7.83	4.50E-04
7847	RPL36	-7.61	7.45E-05
7848	RPL37	-8.80	3.76E-04
7849	RPL37A	-7.91	7.16E-05
7850	RPL38	-8.58	3.60E-04
7851	RPL39	-5.05	6.35E-03
7852	RPL3L	-5.37	1.30E-03
7853	RPL4	-7.97	3.53E-05
7854	RPL5	-8.28	2.95E-05
7855	RPL6	-6.75	1.86E-04
7856	RPL7	-7.22	1.17E-04
7857	RPL7A	-7.10	5.21E-05
7858	RPL7L1	-5.82	1.73E-03
7859	RPL8	-7.69	1.21E-05
7860	RPL9	-8.66	8.56E-05
7861	RPLP0	-6.04	1.07E-03
7862	RPLP1	-8.85	1.46E-05
7863	RPLP2	-5.87	1.79E-04
7864	RPN1	-5.14	3.51E-04
7865	RPN2	-4.42	5.66E-04
7866	RPP14	-2.99	9.91E-05
7867	RPP38	-2.69	4.70E-03

7868	RPP40	-3.22	2.19E-03
7869	RPRD1A	-1.33	8.22E-04
7870	RPRD1B	-2.48	3.73E-04
7871	RPS10	-5.07	1.34E-04
7872	RPS11	-7.63	2.11E-05
7873	RPS12	-8.03	3.06E-05
7874	RPS13	-6.43	4.45E-04
7875	RPS14	-7.43	3.03E-05
7876	RPS15	-7.29	5.11E-04
7877	RPS15A	-7.69	1.21E-04
7878	RPS16	-7.94	1.68E-04
7879	RPS17L	-8.14	4.06E-05
7880	RPS19BP1	-3.92	1.33E-04
7881	RPS20	-8.44	1.12E-04
7882	RPS21	-8.87	6.75E-04
7883	RPS23	-7.79	1.65E-05
7884	RPS24	-7.76	1.12E-04
7885	RPS25	-7.66	1.45E-04
7886	RPS26	-5.36	2.21E-02
7887	RPS27A	-8.32	1.43E-04
7888	RPS27L	-6.76	9.35E-05
7889	RPS28	-5.49	1.68E-04
7890	RPS29	-7.31	1.29E-03
7891	RPS3	-7.71	9.65E-05
7892	RPS3A	-8.65	2.66E-05
7893	RPS4X	-8.25	5.22E-05
7894	RPS6	-8.19	4.82E-05
7895	RPS6KA2	-2.20	4.77E-03
7896	RPS6KA6	-1.41	6.62E-02
7897	RPS6KC1	-2.27	6.96E-03
7898	RPS7	-7.53	4.40E-04
7899	RPS8	-8.18	1.06E-04
7900	RPSA	-7.43	3.57E-05
7901	RPUSD4	-1.47	6.84E-02
7902	RQCD1	-3.86	2.62E-03
7903	RRAGB	-4.00	1.80E-04
7904	RRAGC	-3.55	3.64E-04
7905	RRAS2	-5.46	2.09E-04
7906	RRM1	-4.79	3.22E-04
7907	RRM2	-3.13	1.62E-03
7908	RRM2B	-3.67	2.05E-03
7909	RRN3	-4.88	8.40E-04
7910	RRNAD1	-2.80	1.00E-03
7911	RRP15	-5.30	8.73E-05
7912	RRP1B	-2.28	2.06E-01
7913	RRP7A	-4.97	8.83E-04
7914	RS1	-1.68	1.88E-02
7915	RSBN1	-1.99	2.47E-03
7916	RSBN1L	-2.76	3.47E-03
7917	RSF1	-2.76	5.26E-03
7918	RSL1D1	-3.50	5.90E-04
7919	RSL24D1	-5.06	3.72E-04
7920	RSPH1	-8.39	2.19E-04
7921	RSPH10B2	-4.42	8.52E-04
7922	RSPH3	-5.60	3.78E-04
7923	RSPH4A	-4.36	1.80E-03
7924	RSPH9	-6.19	3.33E-05
7925	RSPRY1	-3.37	1.73E-03
7926	RSRC1	-5.81	4.47E-03
7927	RSU1	-4.07	2.52E-03
7928	RTCD1	-3.97	1.25E-03
7929	RTDR1	-4.91	2.98E-03
7930	RTF1	-4.46	3.01E-05

7931	RTFDC1	-7.77	1.02E-04
7932	RTKN2	-1.24	1.97E-03
7933	RTN4IP1	-2.34	2.83E-03
7934	RTTN	-2.34	2.45E-02
7935	RUFY1	-5.72	9.69E-04
7936	RUFY2	-2.62	6.38E-04
7937	RUFY3	-2.70	7.28E-03
7938	RUNDC3B	-1.15	1.34E-03
7939	RUNX1T1	-3.19	1.72E-03
7940	RUVBL1	-5.65	2.42E-03
7941	RWDD1	-1.77	5.35E-04
7942	RWDD2B	-5.04	1.43E-03
7943	RWDD3	-3.28	3.08E-03
7944	RWDD4	-4.99	6.34E-04
7945	RYK	-3.62	4.62E-03
7946	S100A10	-6.18	4.43E-04
7947	S100A11	-2.63	6.17E-03
7948	S100B	-5.26	2.99E-03
7949	SAFB2	-5.17	2.82E-04
7950	SAG	-1.08	6.58E-02
7951	SAMD13	-3.97	2.90E-03
7952	SAMD15	-5.62	1.64E-04
7953	SAMHD1	-1.58	6.25E-03
7954	SAMM50	-5.71	4.02E-04
7955	SAP130	-1.60	3.26E-02
7956	SAP18	-6.24	1.46E-06
7957	SAP30	-6.23	4.53E-04
7958	SAP30BP	-1.42	2.15E-03
7959	SAR1B	-2.33	3.25E-03
7960	SARNP	-2.83	1.97E-03
7961	SARS	-1.94	3.83E-03
7962	SART3	-3.27	9.77E-04
7963	SASS6	-4.01	4.22E-04
7964	SAV1	-6.57	2.56E-05
7965	SAYSD1	-5.13	5.74E-04
7966	SBDS	-3.91	3.44E-04
7967	SBNO1	-6.69	2.41E-04
7968	SC4MOL	-5.26	4.62E-05
7969	SCAF4	-1.75	2.48E-03
7970	SCAF8	-1.10	6.51E-04
7971	SCAI	-1.61	1.23E-03
7972	SCAMP1	-6.35	7.87E-05
7973	SCAMP2	-3.22	3.05E-03
7974	SCAMP5	-1.93	3.19E-02
7975	SCAPER	-4.03	5.23E-04
7976	SCARB2	-4.12	8.26E-04
7977	SCCPDH	-6.36	2.65E-05
7978	SCD5	-4.19	2.13E-03
7979	SCFD1	-4.87	4.05E-04
7980	SCHIP1	-1.30	4.16E-02
7981	SCLT1	-6.23	9.45E-04
7982	SCML2	-2.04	8.96E-03
7983	SCN1A	-2.09	3.97E-03
7984	SCOC	-2.81	7.17E-04
7985	SCP2	-6.51	4.78E-04
7986	SCPEP1	-4.15	2.40E-03
7987	SCRN1	-4.17	2.72E-03
7988	SCRN3	-4.56	5.98E-04
7989	SCTR	-1.30	1.08E-02
7990	SCX	-1.94	1.70E-02
7991	SCYL2	-4.85	1.18E-03
7992	SCYL3	-3.21	4.46E-03
7993	SDAD1	-4.13	2.33E-04

7994	SDC2	-3.43	2.93E-04
7995	SDCBP	-6.35	4.20E-04
7996	SDCCAG3	-2.50	3.67E-03
7997	SDCCAG8	-3.32	5.53E-04
7998	SD2	-4.89	6.96E-04
7999	SDF2	-6.74	3.16E-06
8000	SDF2L1	-2.73	3.99E-04
8001	SDF4	-4.71	8.31E-04
8002	SDHA	-6.77	6.22E-04
8003	SDHB	-6.25	1.53E-04
8004	SDHD	-2.14	2.75E-04
8005	SDPR	-1.24	1.20E-03
8006	SDR16C5	-3.96	1.30E-04
8007	SDR42E1	-2.33	9.34E-04
8008	SDR42E2	-7.04	1.19E-04
8009	SDSL	-2.26	1.17E-03
8010	SEC11A	-4.91	6.11E-04
8011	SEC11C	-4.82	1.13E-04
8012	SEC13	-7.26	6.73E-04
8013	SEC14L1	-3.63	1.91E-03
8014	SEC22A	-7.41	5.77E-04
8015	SEC22B	-4.78	7.91E-04
8016	SEC22C	-1.63	4.61E-03
8017	SEC23A	-1.24	1.25E-03
8018	SEC23B	-3.96	6.17E-04
8019	SEC23IP	-3.04	1.71E-03
8020	SEC24B	-3.04	1.93E-03
8021	SEC24C	-1.59	5.11E-02
8022	SEC24D	-5.37	7.19E-04
8023	SEC31A	-5.29	2.80E-04
8024	SEC31B	-4.65	2.48E-04
8025	SEC61B	-8.14	1.98E-05
8026	SEC61G	-4.82	1.81E-03
8027	SEC62	-3.93	5.14E-04
8028	SEC63	-3.44	4.60E-04
8029	SECISBP2	-4.06	5.26E-04
8030	SEL1L	-5.57	2.50E-04
8031	SELENBP1	-1.83	2.22E-03
8032	SELK	-7.37	5.38E-05
8033	SELRC1	-5.03	2.46E-04
8034	SELT	-4.77	8.57E-04
8035	SEMA4B	-1.57	9.82E-03
8036	SEMA6D	-3.37	3.86E-04
8037	SENP1	-5.70	3.08E-04
8038	SENP5	-2.53	1.99E-04
8039	SENP6	-3.14	2.97E-03
8040	SEPHS1	-3.59	1.10E-03
8041	SEPP1	-4.09	1.18E-03
8042	SEPSECS	-3.18	1.77E-03
8043	SEPW1	-7.34	2.80E-03
8044	SERBP1	-5.05	4.84E-04
8045	SERF1A	-7.48	1.68E-04
8046	SERF2	-7.07	2.04E-04
8047	SERHL2	-3.40	1.66E-03
8048	SERINC1	-4.35	1.68E-03
8049	SERINC3	-3.77	1.29E-03
8050	SERPINB6	-4.43	7.00E-04
8051	SERPINE2	-5.14	3.30E-05
8052	SERPINF1	-3.79	2.23E-04
8053	SERPINH1	-2.88	1.21E-02
8054	SERPINI1	-6.48	5.88E-04
8055	SESN1	-2.54	2.28E-03
8056	SESTD1	-2.70	2.29E-03

8057	SET	-3.74	1.67E-03
8058	SETD3	-4.49	1.73E-03
8059	SETD4	-2.59	1.63E-03
8060	SETD5	-4.95	1.93E-04
8061	SETD6	-3.88	7.65E-04
8062	SETD7	-1.59	7.79E-03
8063	SETD9	-6.70	4.95E-04
8064	SETX	-2.54	2.39E-04
8065	SF3A1	-4.12	3.09E-04
8066	SF3A3	-3.23	1.55E-02
8067	SF3B1	-5.61	1.48E-05
8068	SF3B14	-5.02	4.51E-04
8069	SF3B3	-5.37	5.57E-05
8070	SF3B5	-2.28	5.89E-03
8071	SFMBT1	-1.55	2.00E-02
8072	SFRP2	-1.97	1.10E-02
8073	SFRP4	-2.20	7.90E-03
8074	SFSWAP	-2.99	7.74E-04
8075	SFT2D1	-6.74	3.09E-03
8076	SFXN1	-3.53	1.26E-04
8077	SFXN2	-1.08	2.73E-02
8078	SFXN4	-2.67	1.60E-03
8079	SFXN5	-1.93	1.21E-05
8080	SGCB	-4.34	4.90E-03
8081	SGCE	-4.60	2.19E-04
8082	SGK3	-2.65	2.81E-02
8083	SGOL1	-3.96	1.04E-03
8084	SGOL2	-6.00	7.64E-05
8085	SGPL1	-2.93	2.08E-03
8086	SGTA	-3.40	1.06E-03
8087	SGTB	-2.42	2.99E-02
8088	SH3BGR	-2.07	5.64E-03
8089	SH3BGRL	-4.96	4.87E-04
8090	SH3BGRL2	-2.11	1.65E-03
8091	SH3GL1	-4.70	1.19E-03
8092	SH3GL3	-1.68	1.24E-03
8093	SH3GLB1	-7.34	2.41E-04
8094	SH3GLB2	-4.79	8.61E-05
8095	SH3YL1	-4.70	5.85E-04
8096	SHC4	-1.11	4.95E-03
8097	SHFM1	-2.46	1.95E-03
8098	SHISA5	-3.34	5.41E-03
8099	SHOC2	-2.51	1.29E-02
8100	SHPRH	-4.31	1.16E-03
8101	SHQ1	-2.74	3.19E-03
8102	SIAH1	-2.75	2.69E-04
8103	SIAH2	-5.71	2.77E-04
8104	SIK1	-3.68	1.86E-04
8105	SIKE1	-3.53	3.06E-04
8106	SIL1	-1.80	8.66E-04
8107	SIN3B	-1.02	6.69E-04
8108	SIPA1L1	-3.46	2.78E-03
8109	SIRT1	-5.52	1.85E-04
8110	SIRT2	-1.79	6.06E-02
8111	SIRT3	-3.91	3.84E-03
8112	SIRT4	-5.83	1.97E-03
8113	SIRT6	-1.30	3.68E-04
8114	SIVA1	-6.49	3.25E-05
8115	SKA2	-6.62	2.34E-04
8116	SKAP2	-3.61	5.97E-04
8117	SKI	-1.37	6.77E-03
8118	SKIL	-3.06	5.78E-04
8119	SKIV2L2	-5.49	1.64E-04

8120	SKP1	-7.45	1.38E-05
8121	SKP2	-1.61	9.52E-03
8122	SLAIN1	-1.61	1.93E-03
8123	SLBP	-5.56	2.59E-04
8124	SLC10A7	-1.40	3.32E-03
8125	SLC16A1	-3.60	3.44E-04
8126	SLC16A3	-1.70	3.57E-03
8127	SLC17A5	-3.86	6.76E-04
8128	SLC19A1	-1.48	1.36E-02
8129	SLC1A4	-1.46	1.14E-03
8130	SLC1A7	-2.65	5.42E-02
8131	SLC20A2	-1.42	7.99E-03
8132	SLC22A23	-1.98	3.94E-03
8133	SLC22A5	-4.58	5.05E-03
8134	SLC23A2	-1.14	1.46E-02
8135	SLC24A5	-1.83	5.14E-02
8136	SLC25A13	-2.77	1.73E-03
8137	SLC25A14	-3.35	6.12E-04
8138	SLC25A15	-4.60	2.33E-05
8139	SLC25A16	-2.55	4.50E-03
8140	SLC25A17	-4.47	1.16E-04
8141	SLC25A20	-4.51	2.61E-03
8142	SLC25A21	-4.95	4.77E-04
8143	SLC25A22	-1.43	1.75E-02
8144	SLC25A24	-3.37	1.51E-03
8145	SLC25A25	-1.18	2.31E-02
8146	SLC25A28	-4.48	1.23E-03
8147	SLC25A3	-5.40	2.78E-04
8148	SLC25A32	-1.74	1.05E-02
8149	SLC25A33	-4.93	3.51E-05
8150	SLC25A36	-4.44	2.40E-04
8151	SLC25A37	-3.88	2.86E-03
8152	SLC25A39	-3.74	1.23E-04
8153	SLC25A4	-3.04	4.08E-03
8154	SLC25A40	-3.06	1.34E-03
8155	SLC25A43	-1.05	3.48E-03
8156	SLC25A46	-4.51	1.19E-03
8157	SLC25A5	-6.73	8.82E-04
8158	SLC25A6	-1.71	1.11E-03
8159	SLC26A3	-1.47	1.64E-04
8160	SLC27A1	-1.45	2.50E-02
8161	SLC27A6	-2.26	9.64E-03
8162	SLC28A3	-3.71	2.07E-02
8163	SLC2A12	-1.59	2.43E-03
8164	SLC2A3	-8.19	2.11E-05
8165	SLC2A5	-1.47	2.64E-04
8166	SLC2A8	-3.20	4.98E-04
8167	SLC30A1	-1.81	1.02E-02
8168	SLC30A4	-4.95	2.39E-05
8169	SLC30A5	-4.23	7.33E-04
8170	SLC30A6	-4.96	1.88E-03
8171	SLC30A7	-3.94	6.76E-04
8172	SLC33A1	-3.45	1.97E-03
8173	SLC35A1	-1.78	1.87E-03
8174	SLC35A3	-1.25	5.84E-04
8175	SLC35A5	-4.45	2.18E-04
8176	SLC35B1	-4.73	7.38E-04
8177	SLC35B3	-3.40	5.11E-04
8178	SLC35B4	-1.33	7.93E-03
8179	SLC35C1	-1.65	5.08E-04
8180	SLC35F1	-2.40	3.61E-03
8181	SLC35F2	-1.35	4.68E-03
8182	SLC35F3	-1.59	3.51E-03

8183	SLC35G2	-3.53	6.16E-04
8184	SLC37A2	-1.08	7.29E-04
8185	SLC37A4	-1.38	4.92E-03
8186	SLC38A2	-4.37	8.15E-04
8187	SLC38A6	-1.44	3.33E-02
8188	SLC39A13	-3.33	1.82E-03
8189	SLC39A3	-2.03	8.42E-03
8190	SLC39A6	-3.62	3.29E-03
8191	SLC39A9	-4.15	3.67E-04
8192	SLC3A1	-3.91	4.75E-04
8193	SLC40A1	-2.24	4.60E-04
8194	SLC41A2	-2.60	2.59E-03
8195	SLC44A3	-3.36	4.44E-03
8196	SLC45A4	-1.13	1.95E-02
8197	SLC46A3	-2.99	7.76E-04
8198	SLC48A1	-4.97	2.91E-03
8199	SLC4A3	-6.82	1.09E-03
8200	SLC4A8	-4.43	2.05E-03
8201	SLC5A8	-2.33	6.49E-05
8202	SLC6A7	-1.06	3.77E-04
8203	SLC6A9	-5.03	4.07E-04
8204	SLC7A5	-3.38	2.10E-03
8205	SLC7A6	-1.41	7.26E-04
8206	SLC7A6OS	-2.14	2.12E-02
8207	SLC7A9	-1.36	4.01E-03
8208	SLMAP	-2.42	1.81E-04
8209	SLMO1	-6.75	9.89E-04
8210	SLMO2	-3.76	5.91E-04
8211	SLTM	-1.97	6.50E-03
8212	SLU7	-3.24	6.17E-05
8213	SLX4	-3.47	7.62E-03
8214	SLX4IP	-2.67	1.25E-03
8215	SMAD3	-1.62	3.88E-03
8216	SMAD6	-3.08	1.15E-03
8217	SMARCA1	-1.55	7.41E-03
8218	SMARCA2	-5.31	7.49E-04
8219	SMARCA4	-3.84	6.48E-03
8220	SMARCA5	-6.10	7.15E-04
8221	SMARCB1	-2.13	2.20E-02
8222	SMARCD2	-1.40	5.39E-02
8223	SMARCE1	-4.94	4.45E-04
8224	SMC1B	-2.74	1.37E-02
8225	SMC2	-5.68	7.04E-05
8226	SMC3	-4.67	2.44E-04
8227	SMC4	-5.50	4.97E-04
8228	SMC5	-5.78	7.68E-04
8229	SMC6	-4.91	1.57E-03
8230	SMCHD1	-2.37	6.34E-04
8231	SMEK2	-1.94	3.26E-02
8232	SMG7	-1.50	8.63E-04
8233	SMG8	-2.17	4.36E-03
8234	SMIM12	-6.01	4.15E-04
8235	SMIM15	-3.52	7.60E-04
8236	SMN	-4.23	3.61E-04
8237	SMNDC1	-3.07	4.55E-04
8238	SMO	-3.49	4.81E-04
8239	SMPD4	-1.22	1.34E-03
8240	SMS	-3.64	7.33E-04
8241	SMU1	-4.51	2.33E-04
8242	SMYD1	-1.20	6.15E-03
8243	SMYD2	-3.74	3.38E-03
8244	SMYD3	-3.55	4.15E-03
8245	SMYD4	-4.35	4.12E-04

8246	SNAPC1	-3.35	2.58E-03
8247	SNAPC3	-1.57	2.83E-04
8248	SNAPC5	-4.23	3.79E-03
8249	SNCA	-2.02	1.80E-01
8250	SNF8	-3.73	1.23E-03
8251	SNHG8	-3.10	1.35E-03
8252	SNIP1	-2.93	1.38E-02
8253	SNRNP25	-5.64	2.18E-04
8254	SNRNP27	-5.94	1.18E-03
8255	SNRNP35	-2.85	3.04E-03
8256	SNRNP40	-1.82	1.23E-03
8257	SNRNP48	-3.29	1.70E-03
8258	SNRPA1	-4.90	9.62E-05
8259	SNRPB	-6.79	1.01E-04
8260	SNRPB2	-5.24	2.56E-03
8261	SNRPC	-6.51	5.21E-05
8262	SNRPD1	-2.33	3.28E-03
8263	SNRPD3	-5.00	3.71E-03
8264	SNRPE	-6.16	2.00E-04
8265	SNRPF	-5.46	1.26E-03
8266	SNW1	-3.97	1.76E-03
8267	SNX1	-4.71	4.74E-04
8268	SNX10	-2.95	7.42E-03
8269	SNX14	-4.23	3.68E-05
8270	SNX17	-1.20	2.97E-02
8271	SNX2	-4.61	1.72E-04
8272	SNX21	-1.28	1.27E-02
8273	SNX24	-2.60	1.11E-03
8274	SNX25	-2.96	2.36E-03
8275	SNX3	-6.66	1.93E-05
8276	SNX4	-2.62	4.22E-05
8277	SNX5	-5.31	4.18E-05
8278	SNX6	-4.38	2.32E-04
8279	SNX7	-2.44	3.64E-04
8280	SOAT1	-3.87	2.92E-03
8281	SOBP	-2.74	1.35E-02
8282	SOC54	-1.31	1.23E-02
8283	SOC55	-1.79	5.72E-05
8284	SOD1	-7.27	6.76E-05
8285	SOD2	-4.76	1.20E-04
8286	SORL1	-2.30	1.51E-02
8287	SOX30	-3.58	3.27E-05
8288	SOX5	-2.44	1.25E-03
8289	SP1	-1.65	3.39E-03
8290	SP3	-2.06	8.48E-04
8291	SP4	-4.79	1.17E-03
8292	SP5	-3.35	1.85E-03
8293	SPACA1	-4.72	3.70E-03
8294	SPAG16	-2.18	1.19E-02
8295	SPAG4	-1.73	1.02E-02
8296	SPAG6	-6.41	7.46E-05
8297	SPAG9	-2.76	3.11E-03
8298	SPARC	-2.44	1.15E-02
8299	SPAST	-1.57	3.30E-02
8300	SPATA16	-3.42	1.35E-03
8301	SPATA17	-8.65	1.33E-04
8302	SPATA18	-7.14	2.02E-03
8303	SPATA2	-2.52	7.37E-04
8304	SPATA5	-3.46	8.05E-04
8305	SPATA6	-4.56	2.13E-03
8306	SPATS2	-2.45	6.02E-03
8307	SPATS2L	-4.82	1.46E-04
8308	SPC25	-8.09	1.11E-04

8309	SPCS1	-7.49	2.47E-04
8310	SPCS2	-5.77	6.32E-04
8311	SPCS3	-3.28	3.78E-04
8312	SPDYA	-6.16	1.55E-04
8313	SPECC1	-4.83	4.13E-04
8314	SPEN	-1.56	2.28E-02
8315	SPERT	-7.67	1.16E-03
8316	SPG21	-5.94	6.60E-04
8317	SPG7	-5.61	5.48E-04
8318	SPHKAP	-3.64	1.94E-04
8319	SPICE1	-1.79	2.54E-02
8320	SPINK4	-2.75	1.73E-04
8321	SPINW	-2.65	6.79E-03
8322	SPINZ	-3.70	1.10E-04
8323	SPO11	-4.00	4.50E-04
8324	SPON1	-2.11	4.04E-03
8325	SPON2	-2.56	1.78E-02
8326	SPOPL	-1.54	9.69E-03
8327	SPPL2A	-3.53	1.45E-04
8328	SPPL2B	-4.27	6.46E-04
8329	SPRED1	-2.97	2.63E-03
8330	SPRYD7	-4.34	1.41E-03
8331	SPSB1	-1.60	7.69E-02
8332	SPSB3	-3.30	4.78E-05
8333	SPSB4	-2.87	1.44E-03
8334	SPTAN1	-4.33	7.33E-05
8335	SPTBN1	-4.32	4.98E-05
8336	SPTLC2	-2.96	1.33E-04
8337	SPTSSA	-2.54	6.49E-03
8338	SPTY2D1	-3.51	1.26E-03
8339	SQLE	-4.98	3.76E-04
8340	SQRDL	-1.32	3.47E-03
8341	SQSTM1	-4.92	3.70E-05
8342	SREK1IP1	-3.73	2.34E-04
8343	SRFBP1	-3.54	6.31E-04
8344	SRGAP1	-4.90	5.62E-05
8345	SRI	-5.71	1.48E-03
8346	SRP14	-6.24	1.31E-04
8347	SRP19	-4.31	4.39E-03
8348	SRP54	-6.22	1.76E-04
8349	SRP68	-2.26	3.76E-03
8350	SRP72	-4.12	2.64E-03
8351	SRP9	-4.26	2.11E-04
8352	SRPK1	-5.83	1.39E-04
8353	SRPK2	-4.09	3.31E-04
8354	SRPX	-2.27	1.48E-02
8355	SRRM1	-4.14	1.97E-03
8356	SRRM2	-5.18	7.73E-04
8357	SRSF1	-4.56	7.64E-03
8358	SRSF10	-5.69	4.05E-04
8359	SRSF11	-3.68	9.65E-04
8360	SRSF2	-3.89	5.60E-04
8361	SRSF3	-6.43	1.96E-04
8362	SRSF4	-4.32	4.70E-04
8363	SRSF5	-2.39	2.66E-03
8364	SRSF5A	-4.78	1.23E-04
8365	SRSF6	-4.63	3.93E-05
8366	SRSF7	-7.29	1.54E-04
8367	SS18	-2.43	1.17E-03
8368	SS18L2	-4.35	1.26E-05
8369	SSB	-5.68	8.62E-05
8370	SSBP1	-5.34	1.21E-03
8371	SSBP2	-1.61	2.79E-03

8372	SSBP3	-1.73	5.36E-04
8373	SSNA1	-5.88	3.69E-04
8374	SSR1	-4.39	3.11E-04
8375	SSR2	-5.41	1.61E-03
8376	SSR3	-4.82	3.80E-05
8377	SSRP1	-3.49	1.00E-04
8378	SSU72	-3.68	4.09E-04
8379	SSX2IP	-6.22	3.35E-04
8380	ST13	-5.33	1.23E-04
8381	ST3GAL5	-4.49	1.77E-04
8382	ST3GAL6	-3.84	2.09E-03
8383	ST5	-2.65	1.20E-02
8384	ST6GALNAC1	-4.09	5.42E-04
8385	ST7	-4.76	1.14E-03
8386	ST7L	-5.49	7.33E-07
8387	STAG1	-2.65	2.26E-03
8388	STAG3	-2.79	2.51E-03
8389	STAM	-1.16	2.41E-02
8390	STAP1	-1.77	1.18E-02
8391	STARD3NL	-3.28	5.83E-05
8392	STARD4	-2.20	3.03E-03
8393	STAT3	-3.17	5.27E-05
8394	STAT4	-1.15	5.64E-02
8395	STAU1	-4.32	2.13E-02
8396	STAIL	-1.81	2.16E-03
8397	STIM1	-2.43	4.07E-05
8398	STK10	-2.15	1.40E-03
8399	STK11	-1.77	4.96E-02
8400	STK11IP	-3.02	3.91E-03
8401	STK17A	-3.68	6.74E-04
8402	STK17B	-2.95	1.05E-04
8403	STK3	-1.25	1.26E-02
8404	STK31	-4.82	3.60E-04
8405	STK38L	-2.79	9.30E-03
8406	STK4	-2.68	2.49E-03
8407	STK40	-5.24	3.22E-04
8408	STMN1	-8.73	1.26E-03
8409	STMN4	-7.21	7.49E-04
8410	STOM	-2.55	4.84E-03
8411	STON2	-2.71	2.62E-03
8412	STOX2	-3.27	8.81E-03
8413	STRA8	-3.30	7.36E-04
8414	STRADA	-5.93	4.53E-04
8415	STRAP	-4.50	6.77E-05
8416	STRBP	-5.08	4.80E-04
8417	STRIP2	-1.92	3.24E-03
8418	STRN3	-6.11	8.26E-04
8419	STT3B	-3.47	1.60E-03
8420	STX16	-3.82	2.53E-04
8421	STX17	-1.63	1.39E-02
8422	STX18	-4.91	3.32E-03
8423	STX1A	-2.70	1.34E-03
8424	STX2	-3.20	1.22E-03
8425	STX6	-1.33	2.08E-03
8426	STXBP3	-2.30	3.62E-03
8427	STYK1	-2.64	5.82E-03
8428	STYX	-6.77	5.46E-05
8429	STYXL1	-3.62	2.80E-04
8430	SUB1	-3.54	2.61E-04
8431	SUCLA2	-2.73	1.23E-03
8432	SUCLG1	-3.07	1.54E-04
8433	SUCLG2	-2.47	6.95E-04
8434	SUDS3	-2.85	8.73E-04

8435	SUFU	-4.11	1.84E-04
8436	SUGP1	-1.75	6.32E-04
8437	SUGT1	-7.30	2.02E-04
8438	SULF2	-2.10	5.70E-03
8439	SULT1E1	-6.21	1.17E-02
8440	SULT4A1	-3.21	2.02E-04
8441	SUMF2	-4.28	1.34E-03
8442	SUMO2	-5.28	1.82E-04
8443	SUMO3	-7.60	4.91E-05
8444	SUN1	-4.46	4.57E-05
8445	SUPT4H1	-4.99	1.40E-04
8446	SUPT5H	-3.16	1.07E-03
8447	SUPV3L1	-2.17	3.69E-02
8448	SURF1	-2.46	7.37E-03
8449	SURF2	-3.55	1.02E-03
8450	SURF4	-4.73	3.45E-05
8451	SURF6	-5.60	3.96E-03
8452	SUSD3	-2.35	1.42E-03
8453	SUSD4	-1.89	2.17E-02
8454	SUV39H2	-3.62	5.80E-04
8455	SUV420H1	-1.82	5.04E-02
8456	SUZ12	-3.37	3.21E-04
8457	SWAP70	-3.27	1.18E-03
8458	SWI5	-6.54	2.95E-04
8459	SYAP1	-5.09	3.73E-05
8460	SYBU	-2.20	3.36E-03
8461	SYCE3	-7.66	4.60E-04
8462	SYCP3	-7.58	2.85E-06
8463	SYF2	-5.04	3.05E-04
8464	SYNE1	-1.67	3.59E-03
8465	SYNGR2	-3.47	1.58E-04
8466	SYNGR3	-1.52	2.60E-05
8467	SYNJ2BP	-5.07	9.47E-04
8468	SYNRG	-1.69	5.69E-03
8469	SYPL1	-1.98	3.25E-03
8470	SYS1	-3.37	5.23E-04
8471	SYT11	-1.33	1.84E-03
8472	SYT8	-1.47	2.41E-03
8473	TAB2	-1.47	3.86E-02
8474	TAB3	-1.66	8.94E-02
8475	TACC3	-3.56	2.32E-02
8476	TACR3	-1.34	1.92E-02
8477	TADA1L	-2.22	2.83E-04
8478	TADA2A	-3.99	9.52E-04
8479	TADA3	-1.43	1.11E-02
8480	TAF1	-4.73	3.28E-04
8481	TAF11	-2.41	4.86E-03
8482	TAF13	-4.61	4.09E-03
8483	TAF15	-5.53	8.55E-05
8484	TAF1A	-3.99	3.33E-04
8485	TAF1B	-2.03	3.73E-03
8486	TAF2	-3.21	4.58E-03
8487	TAF3	-4.52	1.83E-04
8488	TAF5	-3.11	2.87E-04
8489	TAF7	-2.05	2.23E-03
8490	TAF9	-2.28	4.62E-04
8491	TAGLN3	-1.33	1.14E-02
8492	TALDO1	-2.55	3.10E-03
8493	TAMM41	-1.81	3.97E-03
8494	TANC1	-1.23	4.05E-03
8495	TANGO2	-5.94	5.80E-04
8496	TAPBP	-2.10	6.08E-02
8497	TAPT1	-2.19	1.27E-03

8498	TARDBP	-3.98	5.02E-04
8499	TARS	-4.45	3.02E-04
8500	TATDN1	-5.21	4.76E-04
8501	TATDN3	-2.89	3.61E-03
8502	TAX1BP1	-3.37	5.88E-03
8503	TAX1BP3	-2.67	1.31E-02
8504	TBC1D1	-2.79	6.49E-03
8505	TBC1D13	-4.31	1.94E-04
8506	TBC1D14	-2.82	6.75E-03
8507	TBC1D15	-3.75	1.75E-04
8508	TBC1D22A	-3.95	6.59E-04
8509	TBC1D23	-3.46	1.56E-03
8510	TBC1D7	-4.06	2.79E-03
8511	TBC1D8B	-3.45	6.88E-04
8512	TBC1D9B	-3.09	1.01E-04
8513	TBCA	-5.21	5.78E-04
8514	TBCC	-3.14	9.41E-05
8515	TBCCD1	-2.28	1.17E-03
8516	TBCD	-5.45	4.75E-04
8517	TBCE	-5.93	2.72E-04
8518	TBCK	-1.59	6.07E-03
8519	TBK1	-2.17	3.61E-03
8520	TBL1XR1	-1.79	1.19E-02
8521	TBL3	-2.29	2.38E-03
8522	TBP	-3.10	1.76E-03
8523	TBPL1	-6.76	3.93E-05
8524	TBRG4	-2.88	1.38E-03
8525	TC373484	-1.44	1.40E-03
8526	TC373980	-1.45	3.56E-02
8527	TC374189	-3.68	1.97E-03
8528	TC375054	-3.49	4.45E-03
8529	TC375593	-2.78	4.49E-04
8530	TC375681	-4.72	1.40E-03
8531	TC375708	-4.26	1.08E-04
8532	TC375780	-7.03	8.74E-04
8533	TC376077	-4.45	5.21E-03
8534	TC376248	-2.31	3.94E-03
8535	TC376510	-3.88	6.88E-04
8536	TC376617	-1.11	2.79E-03
8537	TC376858	-5.73	1.05E-04
8538	TC377048	-3.64	2.42E-04
8539	TC377127	-1.29	3.61E-03
8540	TC377153	-3.46	3.11E-03
8541	TC377200	-4.51	1.88E-03
8542	TC377266	-4.41	3.84E-03
8543	TC377267	-3.11	1.51E-02
8544	TC377386	-5.84	2.67E-04
8545	TC377463	-3.37	1.02E-03
8546	TC377465	-3.20	2.94E-03
8547	TC377467	-2.57	1.99E-02
8548	TC377491	-3.66	3.02E-03
8549	TC377517	-6.99	2.08E-04
8550	TC377538	-1.39	1.85E-02
8551	TC377588	-7.05	5.87E-04
8552	TC377621	-3.05	1.77E-03
8553	TC377656	-1.93	6.41E-02
8554	TC377657	-1.62	3.98E-04
8555	TC377658	-5.30	3.29E-04
8556	TC377663	-2.13	4.56E-03
8557	TC377664	-2.12	5.54E-03
8558	TC377684	-3.68	7.94E-05
8559	TC377694	-1.49	4.44E-03
8560	TC377695	-4.14	3.00E-04

8561	TC377715	-5.54	1.27E-03
8562	TC377740	-1.95	1.74E-03
8563	TC377741	-2.62	5.49E-03
8564	TC377748	-3.30	4.27E-02
8565	TC377761	-6.04	1.40E-04
8566	TC377762	-4.62	3.97E-04
8567	TC377805	-4.46	4.95E-03
8568	TC377808	-2.08	4.09E-03
8569	TC377820	-5.80	3.42E-05
8570	TC377828	-1.17	1.81E-03
8571	TC377837	-4.58	1.00E-02
8572	TC377841	-1.31	5.39E-03
8573	TC377866	-3.82	1.21E-04
8574	TC377877	-2.78	2.11E-03
8575	TC377899	-2.11	5.21E-03
8576	TC377974	-2.58	2.95E-04
8577	TC377983	-3.13	8.26E-04
8578	TC377984	-3.02	1.30E-03
8579	TC377996	-4.25	1.97E-04
8580	TC378006	-2.13	5.38E-03
8581	TC378019	-4.65	4.87E-04
8582	TC378055	-4.07	4.75E-03
8583	TC378056	-6.74	4.49E-04
8584	TC378109	-3.47	5.86E-04
8585	TC378123	-1.82	1.41E-05
8586	TC378126	-1.95	9.12E-03
8587	TC378159	-3.09	1.36E-03
8588	TC378181	-1.61	2.00E-02
8589	TC378197	-3.07	1.19E-03
8590	TC378228	-3.39	2.06E-03
8591	TC378238	-5.10	5.93E-05
8592	TC378243	-5.65	8.41E-05
8593	TC378249	-6.98	2.17E-04
8594	TC378269	-4.11	7.37E-04
8595	TC378281	-4.40	3.76E-04
8596	TC378307	-2.76	5.13E-03
8597	TC378314	-4.97	8.24E-05
8598	TC378336	-2.54	3.92E-03
8599	TC378372	-4.88	8.09E-04
8600	TC378386	-3.33	4.80E-03
8601	TC378393	-4.31	2.56E-04
8602	TC378396	-1.36	2.78E-02
8603	TC378432	-4.83	1.11E-04
8604	TC378464	-5.41	3.32E-03
8605	TC378472	-3.23	1.39E-03
8606	TC378487	-1.30	1.21E-02
8607	TC378493	-2.48	3.28E-03
8608	TC378499	-1.24	7.21E-02
8609	TC378525	-2.37	2.10E-02
8610	TC378546	-2.96	3.21E-03
8611	TC378580	-4.00	4.96E-04
8612	TC378587	-1.19	8.63E-04
8613	TC378622	-1.51	7.48E-04
8614	TC378643	-3.37	1.91E-03
8615	TC378644	-5.70	4.21E-04
8616	TC378687	-1.19	5.55E-02
8617	TC378717	-4.31	5.93E-04
8618	TC378718	-2.46	1.07E-03
8619	TC378724	-2.72	5.60E-03
8620	TC378748	-5.53	1.35E-03
8621	TC378774	-4.00	8.17E-04
8622	TC378777	-2.76	2.08E-04
8623	TC378813	-3.50	8.25E-04

8624	TC378829	-6.35	1.00E-04
8625	TC378841	-5.53	8.10E-06
8626	TC378854	-3.07	1.57E-02
8627	TC378868	-4.64	9.68E-04
8628	TC378873	-3.09	1.73E-03
8629	TC378896	-3.87	3.01E-03
8630	TC378912	-3.86	1.16E-03
8631	TC378935	-5.85	6.65E-05
8632	TC378939	-5.50	3.90E-04
8633	TC378943	-1.78	1.55E-02
8634	TC378965	-6.53	7.50E-05
8635	TC378982	-3.32	1.13E-02
8636	TC378996	-2.42	1.82E-03
8637	TC379005	-1.01	7.58E-04
8638	TC379017	-4.14	1.39E-03
8639	TC379019	-3.02	9.67E-03
8640	TC379024	-2.44	7.33E-03
8641	TC379063	-3.46	1.09E-03
8642	TC379087	-1.14	6.52E-03
8643	TC379096	-4.51	1.14E-03
8644	TC379113	-3.00	9.56E-04
8645	TC379135	-1.64	5.80E-02
8646	TC379144	-2.68	1.77E-03
8647	TC379150	-3.20	1.19E-03
8648	TC379161	-5.19	1.04E-03
8649	TC379174	-3.18	6.43E-04
8650	TC379225	-4.75	2.20E-03
8651	TC379250	-2.97	1.58E-03
8652	TC379254	-3.03	7.33E-04
8653	TC379259	-3.76	1.74E-03
8654	TC379314	-6.56	5.63E-04
8655	TC379318	-1.84	1.20E-02
8656	TC379370	-6.37	4.99E-05
8657	TC379371	-2.92	1.02E-03
8658	TC379402	-3.75	7.74E-04
8659	TC379406	-3.57	6.99E-04
8660	TC379421	-2.78	9.06E-04
8661	TC379425	-2.87	2.52E-02
8662	TC379426	-1.86	2.54E-03
8663	TC379444	-5.24	2.80E-05
8664	TC379445	-1.67	2.03E-03
8665	TC379461	-3.48	3.66E-03
8666	TC379498	-7.74	5.02E-04
8667	TC379515	-4.51	2.89E-05
8668	TC379579	-3.64	5.16E-03
8669	TC379597	-4.30	1.06E-03
8670	TC379605	-3.83	2.31E-04
8671	TC379610	-3.23	2.17E-03
8672	TC379629	-4.14	1.21E-04
8673	TC379650	-1.31	1.64E-02
8674	TC379659	-1.68	1.66E-02
8675	TC379676	-3.39	1.18E-03
8676	TC379682	-4.40	2.57E-04
8677	TC379715	-2.26	3.96E-03
8678	TC379719	-5.81	6.02E-04
8679	TC379745	-2.81	5.05E-03
8680	TC379746	-2.61	1.12E-02
8681	TC379751	-1.72	4.30E-02
8682	TC379754	-3.60	6.15E-04
8683	TC379765	-4.89	1.99E-04
8684	TC379789	-4.43	6.11E-05
8685	TC379817	-2.70	1.31E-03
8686	TC379824	-1.36	1.71E-04

8687	TC379846	-1.15	1.34E-01
8688	TC379878	-3.77	1.28E-04
8689	TC379894	-6.28	9.33E-04
8690	TC379896	-4.79	2.99E-03
8691	TC379899	-3.72	1.91E-03
8692	TC379943	-5.48	2.02E-03
8693	TC379975	-1.58	5.82E-02
8694	TC380055	-4.47	4.17E-04
8695	TC380060	-5.94	4.19E-04
8696	TC380104	-4.42	3.90E-04
8697	TC380131	-5.09	4.92E-04
8698	TC380132	-1.96	1.57E-02
8699	TC380147	-7.20	1.39E-04
8700	TC380177	-1.67	2.06E-03
8701	TC380188	-4.36	1.90E-04
8702	TC380191	-1.06	4.65E-03
8703	TC380197	-2.32	1.06E-02
8704	TC380258	-2.03	3.67E-03
8705	TC380276	-3.71	1.42E-03
8706	TC380282	-4.02	2.20E-03
8707	TC380292	-4.95	3.68E-04
8708	TC380293	-2.24	5.93E-06
8709	TC380341	-7.42	4.11E-04
8710	TC380347	-4.15	5.47E-04
8711	TC380407	-3.87	7.09E-03
8712	TC380414	-3.18	1.82E-02
8713	TC380436	-3.00	1.43E-04
8714	TC380440	-2.16	1.33E-02
8715	TC380445	-2.07	2.27E-04
8716	TC380496	-6.14	3.05E-04
8717	TC380506	-4.58	4.46E-03
8718	TC380516	-1.63	2.07E-03
8719	TC380524	-3.84	1.57E-03
8720	TC380525	-3.30	9.48E-05
8721	TC380539	-4.54	1.29E-05
8722	TC380544	-3.61	2.75E-03
8723	TC380557	-4.04	3.50E-03
8724	TC380576	-5.30	1.23E-03
8725	TC380587	-2.91	5.19E-03
8726	TC380603	-3.01	1.33E-04
8727	TC380604	-5.11	1.98E-05
8728	TC380614	-6.13	1.17E-03
8729	TC380633	-1.11	6.83E-03
8730	TC380634	-2.47	1.68E-02
8731	TC380647	-4.32	8.61E-04
8732	TC380703	-2.94	3.71E-04
8733	TC380714	-2.47	1.12E-03
8734	TC380718	-3.33	2.97E-03
8735	TC380729	-2.63	6.06E-03
8736	TC380746	-3.42	2.00E-04
8737	TC380751	-6.07	1.41E-04
8738	TC380757	-6.05	6.79E-04
8739	TC380778	-5.14	4.84E-04
8740	TC380787	-2.65	1.07E-03
8741	TC380803	-1.33	6.99E-04
8742	TC380809	-1.26	4.12E-02
8743	TC380813	-1.68	1.64E-03
8744	TC380817	-3.74	6.66E-03
8745	TC380874	-2.02	5.52E-03
8746	TC380893	-5.09	3.77E-04
8747	TC380912	-1.24	5.40E-03
8748	TC380925	-3.18	2.49E-02
8749	TC381012	-1.24	5.16E-03

8750	TC381014	-4.51	1.07E-03
8751	TC381032	-2.80	9.52E-04
8752	TC381061	-1.13	1.63E-03
8753	TC381096	-2.65	1.38E-04
8754	TC381132	-1.08	9.83E-03
8755	TC381155	-3.45	3.33E-02
8756	TC381170	-6.24	5.97E-04
8757	TC381203	-4.46	9.12E-04
8758	TC381217	-6.02	6.41E-04
8759	TC381290	-5.58	8.45E-04
8760	TC381294	-2.60	1.23E-03
8761	TC381340	-2.64	9.13E-04
8762	TC381354	-1.90	1.77E-03
8763	TC381362	-5.13	1.71E-04
8764	TC381428	-5.72	3.67E-04
8765	TC381480	-4.08	4.06E-04
8766	TC381554	-4.05	5.40E-03
8767	TC381558	-6.26	1.02E-04
8768	TC381591	-2.91	5.59E-04
8769	TC381595	-3.44	3.99E-03
8770	TC381601	-5.31	6.48E-04
8771	TC381614	-1.77	3.26E-03
8772	TC381638	-5.09	4.88E-04
8773	TC381721	-5.60	7.89E-04
8774	TC381809	-1.84	1.25E-02
8775	TC381844	-5.98	3.60E-04
8776	TC381925	-2.14	1.98E-03
8777	TC381928	-1.63	1.91E-02
8778	TC381960	-2.02	1.03E-03
8779	TC381979	-4.71	7.52E-03
8780	TC381988	-5.51	5.94E-04
8781	TC382017	-2.24	1.67E-02
8782	TC382072	-4.75	1.30E-03
8783	TC382098	-3.93	5.71E-04
8784	TC382109	-2.26	3.38E-04
8785	TC382115	-3.20	1.12E-03
8786	TC382116	-1.73	1.67E-02
8787	TC382118	-1.21	2.73E-03
8788	TC382129	-1.67	3.73E-02
8789	TC382157	-3.87	1.28E-03
8790	TC382313	-2.89	2.44E-04
8791	TC382344	-4.90	6.13E-05
8792	TC382357	-5.52	3.09E-03
8793	TC382370	-2.62	1.06E-03
8794	TC382379	-3.91	1.21E-05
8795	TC382384	-3.08	2.33E-03
8796	TC382480	-1.55	1.30E-02
8797	TC382491	-1.80	2.39E-02
8798	TC382501	-3.64	2.05E-04
8799	TC382591	-2.02	1.74E-02
8800	TC382619	-2.16	2.17E-03
8801	TC382642	-1.79	3.40E-03
8802	TC382646	-1.34	1.95E-03
8803	TC382681	-2.93	2.42E-03
8804	TC382715	-6.13	4.74E-04
8805	TC382723	-4.35	5.41E-04
8806	TC382764	-5.77	1.82E-05
8807	TC382829	-1.33	2.05E-02
8808	TC382831	-1.61	2.24E-03
8809	TC382838	-1.88	7.69E-04
8810	TC382842	-3.62	1.93E-03
8811	TC382954	-4.17	2.55E-04
8812	TC382962	-2.51	3.77E-03

8813	TC382998	-1.17	1.00E-02
8814	TC383002	-2.28	1.27E-03
8815	TC383011	-5.36	1.38E-03
8816	TC383028	-1.30	3.78E-02
8817	TC383039	-1.16	7.08E-03
8818	TC383055	-2.30	1.51E-02
8819	TC383086	-1.45	1.24E-02
8820	TC383115	-1.66	1.88E-02
8821	TC383192	-6.55	4.30E-04
8822	TC383249	-2.85	3.67E-03
8823	TC383254	-3.98	2.26E-03
8824	TC383289	-4.60	4.76E-04
8825	TC383349	-1.36	8.23E-03
8826	TC383351	-3.15	1.26E-02
8827	TC383377	-6.47	1.45E-04
8828	TC383407	-4.93	2.48E-03
8829	TC383411	-2.50	7.33E-03
8830	TC383450	-3.18	3.37E-03
8831	TC383580	-2.00	9.88E-04
8832	TC383582	-3.39	6.52E-05
8833	TC383588	-5.32	1.22E-03
8834	TC383602	-6.01	1.75E-03
8835	TC383629	-3.23	8.83E-02
8836	TC383673	-1.45	4.93E-02
8837	TC383685	-2.46	8.50E-03
8838	TC383732	-5.93	3.21E-03
8839	TC383738	-2.97	2.58E-03
8840	TC383780	-3.11	1.05E-03
8841	TC383840	-6.78	6.74E-04
8842	TC383846	-8.58	3.02E-04
8843	TC383916	-3.88	8.24E-03
8844	TC383926	-2.53	8.71E-04
8845	TC383952	-4.35	9.59E-04
8846	TC383976	-4.09	3.16E-04
8847	TC383994	-2.82	6.88E-03
8848	TC384028	-1.03	1.09E-04
8849	TC384081	-3.66	2.18E-03
8850	TC384142	-3.91	5.47E-03
8851	TC384154	-1.73	3.01E-03
8852	TC384207	-2.14	5.22E-03
8853	TC384224	-3.43	1.13E-03
8854	TC384302	-1.69	1.22E-01
8855	TC384500	-1.99	3.74E-03
8856	TC384527	-5.55	5.04E-04
8857	TC384532	-1.20	6.77E-02
8858	TC384570	-2.34	3.06E-03
8859	TC384674	-4.06	6.36E-05
8860	TC384694	-4.93	1.13E-04
8861	TC384770	-1.40	4.34E-03
8862	TC384808	-3.64	4.83E-04
8863	TC384895	-1.26	3.12E-02
8864	TC384930	-3.10	6.21E-03
8865	TC385000	-2.45	4.01E-03
8866	TC385071	-2.44	2.63E-03
8867	TC385173	-1.72	1.03E-01
8868	TC385220	-2.99	1.54E-05
8869	TC385246	-1.80	2.21E-02
8870	TC385346	-1.47	2.24E-02
8871	TC385360	-3.82	1.35E-03
8872	TC385392	-1.53	1.40E-02
8873	TC385626	-4.88	5.74E-04
8874	TC385636	-2.27	2.83E-02
8875	TC385656	-4.75	3.33E-06

8876	TC385714	-2.03	7.83E-03
8877	TC386024	-1.94	3.49E-02
8878	TC386064	-3.63	5.51E-04
8879	TC386275	-2.75	4.15E-03
8880	TC386292	-1.93	2.13E-03
8881	TC386337	-1.55	6.91E-03
8882	TC386351	-2.56	6.05E-03
8883	TC386594	-1.57	2.03E-02
8884	TC386681	-6.07	1.51E-05
8885	TC386732	-5.81	5.19E-05
8886	TC387639	-4.66	1.99E-03
8887	TC387843	-3.69	3.82E-03
8888	TC388220	-5.30	6.76E-04
8889	TC388238	-4.12	5.27E-04
8890	TC388361	-4.69	1.27E-03
8891	TC388430	-4.16	5.83E-04
8892	TC388515	-2.90	1.37E-03
8893	TC388521	-6.77	9.88E-04
8894	TC388706	-5.46	2.60E-04
8895	TC388707	-1.17	1.51E-03
8896	TC388832	-2.03	6.28E-04
8897	TC388863	-3.51	6.64E-04
8898	TC389056	-2.73	6.30E-03
8899	TC389097	-2.42	1.44E-02
8900	TC389283	-2.74	2.50E-03
8901	TC389337	-2.45	2.08E-02
8902	TC389421	-5.47	1.90E-04
8903	TC389428	-3.36	1.09E-04
8904	TC389495	-2.31	1.55E-03
8905	TC389618	-4.35	9.60E-04
8906	TC389683	-6.35	3.18E-04
8907	TC389795	-2.57	2.05E-02
8908	TC389871	-3.11	1.59E-03
8909	TC389872	-3.29	2.65E-04
8910	TC390042	-4.93	1.97E-03
8911	TC390057	-4.67	3.80E-03
8912	TC390443	-1.90	5.03E-03
8913	TC390532	-2.02	3.77E-03
8914	TC390567	-2.87	4.72E-03
8915	TC390883	-2.73	1.25E-03
8916	TC391063	-1.98	2.02E-03
8917	TC391148	-4.53	1.66E-03
8918	TC391293	-2.83	1.09E-03
8919	TC391420	-3.29	3.44E-03
8920	TC391643	-3.51	4.54E-03
8921	TC392128	-2.48	5.32E-03
8922	TC392270	-4.44	1.13E-03
8923	TC392635	-3.99	1.93E-02
8924	TC392720	-1.25	2.35E-02
8925	TC392777	-3.81	1.05E-03
8926	TC392812	-1.06	5.61E-03
8927	TC393126	-4.28	1.37E-04
8928	TC393138	-3.80	3.23E-03
8929	TC393205	-2.68	1.19E-02
8930	TC393216	-1.57	3.16E-03
8931	TC393310	-1.92	1.07E-05
8932	TC393597	-1.41	4.29E-02
8933	TC393629	-3.05	8.75E-03
8934	TC394459	-6.81	5.02E-04
8935	TC394553	-2.53	1.04E-02
8936	TC394733	-3.63	2.94E-03
8937	TC394891	-1.17	2.44E-03
8938	TC395447	-1.30	1.18E-03

8939	TC395666	-3.50	3.81E-04
8940	TC395803	-5.21	2.07E-04
8941	TC396009	-2.39	5.96E-02
8942	TC396061	-3.57	5.49E-04
8943	TC396102	-4.82	3.03E-04
8944	TC396299	-1.37	3.92E-02
8945	TC396352	-3.98	5.04E-03
8946	TC396426	-1.63	2.31E-02
8947	TC397084	-4.39	9.31E-04
8948	TC397253	-4.61	2.34E-04
8949	TC397341	-1.78	3.07E-04
8950	TC397354	-3.60	2.41E-04
8951	TC398219	-3.45	1.50E-04
8952	TC398431	-6.49	5.73E-04
8953	TC398475	-2.17	6.71E-03
8954	TC398668	-3.23	1.30E-03
8955	TC398920	-4.69	6.41E-04
8956	TC399074	-1.75	1.92E-03
8957	TC399158	-1.35	7.95E-02
8958	TC399280	-1.56	9.06E-02
8959	TC399475	-4.76	9.55E-04
8960	TC399666	-2.33	3.99E-04
8961	TC399732	-4.83	3.49E-04
8962	TC399776	-1.57	1.62E-02
8963	TC400353	-7.28	3.32E-04
8964	TC400608	-1.87	1.17E-02
8965	TC400994	-7.08	5.17E-03
8966	TC401006	-3.39	3.61E-03
8967	TC401126	-1.12	2.15E-02
8968	TC401635	-4.16	1.31E-03
8969	TC402133	-3.10	1.17E-03
8970	TC402136	-2.92	2.28E-03
8971	TC402270	-4.47	2.48E-03
8972	TC402586	-2.87	9.34E-03
8973	TC402644	-5.07	6.43E-04
8974	TC402957	-2.31	1.91E-03
8975	TC403002	-2.35	2.89E-03
8976	TC403049	-1.32	2.44E-03
8977	TC403175	-1.73	1.07E-03
8978	TC403764	-1.98	2.86E-03
8979	TC403838	-5.34	5.35E-05
8980	TC403923	-2.19	4.11E-03
8981	TC403989	-3.38	4.38E-04
8982	TC404016	-5.47	1.36E-03
8983	TC404395	-2.26	1.86E-02
8984	TC404502	-1.49	1.83E-02
8985	TC404701	-2.76	1.22E-03
8986	TC405014	-2.34	3.59E-03
8987	TC405282	-3.90	1.86E-03
8988	TC405592	-6.59	2.35E-04
8989	TC405764	-3.09	5.28E-04
8990	TC406324	-4.55	8.07E-05
8991	TC406846	-4.03	1.32E-03
8992	TC407293	-4.02	2.10E-04
8993	TC407560	-4.65	5.26E-04
8994	TC407872	-1.38	3.68E-03
8995	TC407881	-2.07	3.76E-04
8996	TC408045	-3.10	6.26E-03
8997	TC408244	-1.61	5.28E-03
8998	TC408316	-2.07	3.56E-03
8999	TC408479	-4.76	3.96E-04
9000	TC408745	-7.92	1.77E-04
9001	TC408847	-1.42	3.06E-02

9002	TC409047	-2.64	1.83E-02
9003	TC409229	-3.64	1.33E-03
9004	TC409572	-1.79	1.60E-02
9005	TC409664	-2.02	1.95E-03
9006	TC409734	-2.30	8.07E-03
9007	TC410019	-3.03	5.98E-04
9008	TC410073	-1.40	1.85E-02
9009	TC410529	-3.35	3.48E-02
9010	TC410822	-2.82	8.98E-02
9011	TC411312	-3.15	9.11E-04
9012	TC411737	-5.54	6.17E-05
9013	TC413029	-1.74	2.07E-03
9014	TC413047	-3.75	7.39E-04
9015	TC413091	-1.93	4.97E-03
9016	TC413917	-1.51	4.25E-02
9017	TC413996	-1.43	1.53E-02
9018	TC414094	-4.82	2.18E-02
9019	TC415803	-1.30	3.32E-03
9020	TC415869	-4.26	4.90E-04
9021	TC416104	-1.69	1.46E-02
9022	TC416420	-5.70	8.00E-04
9023	TC416933	-4.32	1.22E-03
9024	TC417507	-8.06	2.53E-04
9025	TC417518	-5.25	1.80E-06
9026	TC417783	-1.72	7.56E-03
9027	TC417876	-3.94	7.65E-04
9028	TC417921	-4.30	6.04E-03
9029	TC418171	-1.18	1.29E-02
9030	TC418277	-6.45	1.00E-03
9031	TC418732	-2.67	6.70E-03
9032	TC418801	-1.81	2.86E-02
9033	TC419189	-1.23	4.05E-03
9034	TC419350	-7.16	1.13E-04
9035	TC419433	-4.75	1.93E-04
9036	TC419481	-2.25	4.02E-04
9037	TC420146	-3.78	4.80E-04
9038	TC420212	-3.42	6.42E-03
9039	TC420771	-2.50	3.75E-03
9040	TC421147	-3.97	6.65E-03
9041	TC421445	-5.71	2.46E-05
9042	TC421504	-3.81	1.37E-02
9043	TC421873	-4.35	2.88E-04
9044	TC421958	-2.05	1.08E-02
9045	TC422612	-1.46	9.15E-03
9046	TC422833	-7.77	4.04E-04
9047	TC422844	-3.89	6.96E-04
9048	TC423055	-6.80	9.60E-04
9049	TC423437	-1.78	1.66E-02
9050	TC423926	-5.59	8.77E-03
9051	TC424683	-1.88	5.71E-02
9052	TC425082	-2.77	5.72E-03
9053	TC425426	-5.01	1.86E-04
9054	TC425574	-2.73	1.94E-03
9055	TC425664	-4.88	2.43E-04
9056	TC426194	-5.94	5.39E-05
9057	TC426384	-1.98	8.15E-03
9058	TC426449	-2.48	5.33E-03
9059	TC427584	-4.75	2.09E-04
9060	TC427873	-1.67	6.70E-03
9061	TC427877	-1.53	3.61E-03
9062	TC429003	-3.38	4.88E-04
9063	TC429214	-4.29	3.52E-04
9064	TC429794	-3.41	4.91E-03

9065	TC430203	-5.02	4.14E-04
9066	TC430306	-4.30	1.14E-03
9067	TC430417	-4.67	1.05E-03
9068	TC430657	-4.72	3.03E-05
9069	TC430852	-2.06	5.42E-02
9070	TC431023	-2.41	2.60E-03
9071	TC431042	-4.66	2.23E-03
9072	TC431160	-1.33	1.39E-02
9073	TC431230	-3.37	5.71E-04
9074	TC431356	-1.26	1.28E-03
9075	TC431486	-3.57	3.83E-04
9076	TC431974	-1.89	5.75E-02
9077	TC432113	-1.56	5.66E-03
9078	TC432715	-4.61	1.03E-03
9079	TC432820	-1.52	2.23E-02
9080	TC432834	-2.10	2.80E-03
9081	TC432852	-1.47	3.43E-02
9082	TC433069	-1.90	1.29E-04
9083	TC433336	-1.73	2.67E-02
9084	TC433358	-4.95	1.76E-03
9085	TC433908	-6.91	2.27E-04
9086	TC434062	-1.37	3.09E-03
9087	TC434876	-2.41	7.09E-02
9088	TC434958	-1.61	8.59E-03
9089	TC434983	-5.41	2.14E-05
9090	TC435313	-9.05	3.85E-04
9091	TC435460	-4.51	1.67E-03
9092	TC435669	-4.30	7.38E-03
9093	TC435999	-1.85	1.71E-03
9094	TC436067	-6.54	6.52E-05
9095	TC436313	-2.26	4.35E-02
9096	TC436567	-6.19	7.76E-04
9097	TC436863	-3.12	9.63E-03
9098	TC436965	-3.32	5.63E-04
9099	TC437323	-4.34	1.08E-02
9100	TC437475	-2.00	2.09E-02
9101	TC438108	-2.53	6.28E-05
9102	TC438286	-6.31	7.32E-04
9103	TC438399	-6.51	3.68E-04
9104	TC438773	-1.28	1.41E-02
9105	TC439011	-2.54	7.88E-03
9106	TC440014	-1.19	1.10E-03
9107	TC440759	-5.97	6.62E-04
9108	TC440776	-2.30	2.40E-03
9109	TC440997	-3.68	4.36E-04
9110	TC441114	-6.07	1.93E-03
9111	TC441145	-4.87	3.08E-03
9112	TC441172	-4.13	5.67E-05
9113	TC441441	-1.80	5.08E-03
9114	TC442213	-1.74	4.67E-02
9115	TC442986	-4.17	8.25E-04
9116	TC443247	-5.11	2.82E-04
9117	TC443504	-1.88	3.52E-05
9118	TC444002	-2.00	2.93E-03
9119	TC444019	-2.74	7.94E-03
9120	TC444178	-1.89	1.19E-02
9121	TC444206	-5.04	7.52E-04
9122	TCEA1	-4.45	2.21E-04
9123	TCEA2	-6.48	4.39E-05
9124	TCEANC	-4.22	8.63E-05
9125	TCEB1	-4.16	7.76E-05
9126	TCEB3	-3.87	4.25E-04
9127	TCERG1	-4.00	2.47E-03

9128	TCF12	-3.01	7.24E-04
9129	TCF20	-1.61	7.16E-03
9130	TCF3	-2.23	3.07E-03
9131	TCFL5	-5.84	6.74E-04
9132	TCOF1	-3.81	1.67E-04
9133	TCP1	-7.82	1.71E-05
9134	TCP11	-8.04	5.30E-05
9135	TCP11L1	-4.05	3.92E-04
9136	TCTE1	-2.83	9.63E-03
9137	TCTE3	-5.52	1.89E-03
9138	TCTEX1D2	-2.55	2.46E-02
9139	TCTN1	-3.42	5.87E-03
9140	TDG	-2.21	2.56E-04
9141	TDP1	-4.43	8.63E-05
9142	TDP2	-3.41	1.18E-04
9143	TDRD12	-2.00	1.98E-02
9144	TDRD3	-5.84	8.92E-04
9145	TDRD5	-3.26	8.10E-03
9146	TDRD9	-2.99	1.06E-04
9147	TEAD4	-3.97	2.02E-04
9148	TECPR2	-4.84	2.97E-05
9149	TEF	-3.86	2.72E-05
9150	TEKT1	-8.01	3.63E-04
9151	TEKT2	-6.30	4.46E-04
9152	TEKT3	-3.81	3.60E-03
9153	TEKT4	-8.50	5.97E-07
9154	TEKT5	-6.35	3.48E-05
9155	TERF1	-4.17	2.05E-05
9156	TERF2	-1.95	2.82E-03
9157	TERF2IP	-2.21	1.09E-02
9158	TESC	-2.08	1.08E-02
9159	TEX10	-5.15	3.22E-04
9160	TEX2	-1.83	4.45E-03
9161	TEX30	-3.69	2.40E-04
9162	TFAM	-4.99	3.79E-04
9163	TFAP2A	-2.86	1.67E-03
9164	TFB1M	-4.85	5.90E-04
9165	TFB2M	-5.32	7.43E-04
9166	TFDP1	-2.95	2.67E-04
9167	TFG	-5.52	1.10E-04
9168	TFIP11	-3.18	1.31E-01
9169	TFPI	-2.12	8.22E-04
9170	TFPI2	-4.33	7.29E-04
9171	TGDS	-2.96	1.21E-03
9172	TGFBF1	-2.40	1.84E-03
9173	TGIF1	-1.38	6.92E-02
9174	TGM2	-4.60	9.80E-04
9175	TGM4	-2.31	6.14E-04
9176	TGS1	-2.12	1.74E-03
9177	TH1L	-3.76	1.48E-04
9178	THAP1	-3.26	5.28E-02
9179	THAP5	-6.48	5.14E-04
9180	THBS1	-3.04	8.62E-05
9181	THBS4	-2.96	2.55E-04
9182	THG1L	-4.79	5.61E-03
9183	THNSL1	-1.03	6.02E-03
9184	THNSL2	-3.59	3.71E-04
9185	THOC1	-4.17	2.50E-03
9186	THOC2	-4.77	3.47E-04
9187	THOC3	-2.31	4.83E-04
9188	THOC4	-5.86	6.92E-04
9189	THOC5	-4.21	5.39E-04
9190	THOC7	-5.02	9.93E-04

9191	THRAP3	-3.28	8.58E-04
9192	THSD4	-1.58	5.89E-03
9193	THSD7B	-1.76	1.20E-02
9194	THUMPD1	-2.54	4.45E-04
9195	THUMPD3	-4.90	2.03E-04
9196	THYN1	-5.94	1.23E-03
9197	TIA1	-3.38	8.99E-04
9198	TIMM10	-2.10	4.93E-02
9199	TIMM17A	-4.71	5.99E-03
9200	TIMM23	-4.52	4.90E-03
9201	TIMM44	-4.00	7.67E-04
9202	TIMM8A	-3.61	8.89E-05
9203	TIMM9	-5.55	3.36E-04
9204	TIMMDC1	-3.39	2.04E-03
9205	TIMP3	-2.52	6.36E-03
9206	TIMP4	-1.68	2.03E-02
9207	TIPIN	-4.13	2.36E-03
9208	TIPRL	-4.40	2.05E-03
9209	TIRAP	-4.31	3.69E-03
9210	TK1	-2.14	2.05E-03
9211	TK2	-3.41	9.45E-05
9212	TLE3	-3.29	3.22E-03
9213	TLK1	-1.95	6.07E-05
9214	TLK2	-3.82	5.74E-05
9215	TLR6	-1.08	2.75E-02
9216	TLX3	-6.90	1.33E-02
9217	TM2D2	-4.70	3.05E-03
9218	TM4SF4	-3.01	8.80E-04
9219	TM7SF3	-1.39	1.24E-02
9220	TM9SF2	-4.75	9.60E-04
9221	TM9SF3	-2.88	2.13E-04
9222	TMA16	-4.35	2.52E-04
9223	TMBIM1	-4.25	1.41E-03
9224	TMBIM4	-6.16	2.02E-05
9225	TMC7	-5.22	4.18E-05
9226	TMCC3	-2.22	2.34E-02
9227	TMCO1	-5.23	6.95E-04
9228	TMCO3	-2.02	3.77E-03
9229	TMCO6	-3.48	4.87E-03
9230	TMCO7	-2.69	1.29E-03
9231	TMED10	-3.11	2.86E-03
9232	TMED2	-2.91	7.25E-03
9233	TMED5	-2.52	1.05E-02
9234	TMEFF2	-5.07	9.53E-04
9235	TMEM101	-3.10	3.10E-03
9236	TMEM104	-2.05	2.81E-03
9237	TMEM106B	-2.23	5.73E-03
9238	TMEM111	-6.34	6.65E-04
9239	TMEM114	-2.19	7.78E-03
9240	TMEM120A	-3.86	7.48E-03
9241	TMEM123	-4.04	6.82E-04
9242	TMEM128	-5.09	1.20E-04
9243	TMEM129	-3.86	7.38E-04
9244	TMEM130	-2.63	2.67E-03
9245	TMEM131	-2.66	2.25E-03
9246	TMEM138	-5.61	5.88E-05
9247	TMEM140	-1.43	1.96E-02
9248	TMEM141	-2.30	1.09E-02
9249	TMEM144	-1.99	1.92E-03
9250	TMEM14A	-5.11	2.68E-05
9251	TMEM14C	-4.71	6.43E-03
9252	TMEM159	-4.66	2.78E-05
9253	TMEM161B	-4.44	2.83E-05

9254	TMEM167A	-3.89	5.76E-04
9255	TMEM167B	-4.05	1.01E-04
9256	TMEM168	-1.36	3.45E-03
9257	TMEM17	-2.21	2.90E-04
9258	TMEM170A	-2.13	5.67E-05
9259	TMEM170B	-2.43	8.71E-03
9260	TMEM171	-1.09	5.39E-05
9261	TMEM173	-1.34	5.93E-03
9262	TMEM175	-4.39	1.89E-04
9263	TMEM178B	-2.95	3.99E-02
9264	TMEM18	-5.59	1.42E-03
9265	TMEM180	-4.44	6.29E-04
9266	TMEM183A	-4.58	3.93E-04
9267	TMEM184C	-2.80	2.70E-03
9268	TMEM185A	-4.29	2.74E-04
9269	TMEM188	-4.26	1.45E-05
9270	TMEM189	-3.29	2.78E-03
9271	TMEM199	-7.96	6.95E-05
9272	TMEM206	-5.41	3.03E-03
9273	TMEM208	-6.14	1.18E-04
9274	TMEM209	-2.58	6.97E-04
9275	TMEM214	-2.62	8.40E-05
9276	TMEM216	-1.18	9.60E-03
9277	TMEM222	-1.43	7.22E-03
9278	TMEM231	-1.07	2.85E-03
9279	TMEM234	-4.13	1.39E-03
9280	TMEM237	-2.09	9.09E-03
9281	TMEM248	-2.60	1.18E-03
9282	TMEM26	-1.71	6.82E-02
9283	TMEM27	-3.91	3.55E-03
9284	TMEM30A	-3.91	4.67E-04
9285	TMEM33	-2.93	7.34E-04
9286	TMEM35	-1.03	2.50E-02
9287	TMEM38A	-1.52	9.18E-03
9288	TMEM38B	-3.96	4.74E-04
9289	TMEM39B	-4.91	3.54E-04
9290	TMEM41B	-1.78	1.22E-03
9291	TMEM43	-5.16	2.58E-03
9292	TMEM48	-6.86	4.02E-04
9293	TMEM5	-4.07	6.17E-03
9294	TMEM50B	-3.24	2.20E-03
9295	TMEM53	-1.74	5.35E-03
9296	TMEM55A	-4.03	6.68E-04
9297	TMEM57	-1.82	4.00E-02
9298	TMEM59	-6.17	1.49E-04
9299	TMEM60	-1.74	4.91E-05
9300	TMEM62	-1.48	6.91E-03
9301	TMEM63A	-4.47	2.34E-04
9302	TMEM64	-2.94	1.72E-03
9303	TMEM65	-3.83	2.66E-04
9304	TMEM66	-6.77	2.49E-05
9305	TMEM67	-2.93	1.81E-03
9306	TMEM68	-4.50	3.19E-03
9307	TMEM70	-5.43	2.89E-04
9308	TMEM79	-3.52	1.63E-03
9309	TMEM80	-2.39	1.36E-03
9310	TMEM81	-2.06	9.95E-03
9311	TMEM87A	-4.65	2.69E-04
9312	TMEM93	-4.54	1.83E-04
9313	TMEM97	-2.98	1.95E-03
9314	TMEM9B	-3.84	7.50E-03
9315	TMF1	-4.56	1.09E-03
9316	TMLHE	-1.87	2.17E-03

9317	TMOD3	-1.80	4.38E-03
9318	TMPO	-2.66	2.82E-04
9319	TMPRSS7	-1.56	2.76E-02
9320	TMSB4X	-6.24	6.95E-04
9321	TMTC3	-1.89	1.99E-03
9322	TMX2	-3.51	2.88E-04
9323	TMX3	-3.87	1.18E-03
9324	TMX4	-2.99	1.63E-03
9325	TNFAIP6	-2.78	3.05E-03
9326	TNFAIP8	-1.61	2.28E-03
9327	TNFAIP8L1	-3.29	2.66E-03
9328	TNFRSF11B	-1.33	1.29E-02
9329	TNFRSF21	-1.73	9.99E-02
9330	TNFRSF8	-2.70	5.99E-02
9331	TNKS	-6.86	3.37E-04
9332	TNKS2	-3.69	1.71E-03
9333	TNN	-1.79	4.83E-03
9334	TNNC1	-1.97	5.93E-03
9335	TNNT3	-3.85	3.33E-03
9336	TNPO3	-3.08	5.07E-03
9337	TNRC15	-4.31	1.39E-03
9338	TNRC6A	-1.52	1.20E-02
9339	TNRC6C	-2.92	4.47E-03
9340	TOB1	-1.87	1.69E-03
9341	TOB2	-2.22	4.10E-03
9342	TOLLIP	-5.04	2.13E-03
9343	TOM1L2	-3.45	8.61E-03
9344	TOMM20	-6.22	3.27E-04
9345	TOMM22	-1.60	2.62E-02
9346	TOMM34	-1.96	4.54E-04
9347	TOMM5	-5.77	9.81E-05
9348	TOMM6	-7.74	1.38E-03
9349	TOMM7	-5.99	1.26E-04
9350	TOMM70A	-2.68	1.41E-02
9351	TOP1	-4.95	1.55E-04
9352	TOP2A	-6.39	1.84E-05
9353	TOP2B	-5.79	4.15E-04
9354	TOP3A	-2.97	4.40E-03
9355	TOR1A	-2.66	1.13E-02
9356	TP53I3	-3.44	4.88E-04
9357	TP53INP1	-3.01	2.14E-03
9358	TP53RK	-3.11	1.32E-03
9359	TP53TG5	-7.21	1.53E-04
9360	TPCN1	-1.21	3.17E-02
9361	TPCN3	-1.31	3.11E-03
9362	TPD52	-6.01	1.95E-04
9363	TPD52L2	-6.59	8.54E-06
9364	TPH1	-1.18	7.89E-02
9365	TPH2	-3.70	4.86E-03
9366	TPI1	-6.96	3.95E-05
9367	TPM1	-2.31	3.17E-03
9368	TPM2	-4.70	1.04E-02
9369	TPM3	-1.91	5.34E-03
9370	TPMT	-5.62	8.74E-05
9371	TPP2	-3.35	5.24E-04
9372	TPPP2	-5.10	3.07E-03
9373	TPR	-3.73	1.19E-06
9374	TPRG1L	-5.91	3.95E-05
9375	TPRKB	-3.89	1.12E-03
9376	TPST1	-3.04	7.01E-03
9377	TPST2	-3.09	8.57E-05
9378	TPT1	-5.88	1.18E-02
9379	TPTE2	-4.89	3.47E-03

9380	TPX2	-6.10	1.47E-04
9381	TRA2A	-4.80	8.34E-04
9382	TRA2B	-3.71	4.00E-03
9383	TRABD	-3.73	7.02E-03
9384	TRAF3	-1.77	1.19E-03
9385	TRAF3IP2	-2.67	9.93E-05
9386	TRAF5	-2.14	1.12E-03
9387	TRAF6	-4.58	1.26E-03
9388	TRAF7	-2.96	9.25E-04
9389	TRAFD1	-3.35	2.93E-03
9390	TRAIP	-3.00	7.73E-03
9391	TRAM1	-4.88	2.01E-03
9392	TRAP1	-4.38	2.29E-05
9393	TRAPPC11	-4.09	3.32E-03
9394	TRAPPC2	-2.92	3.17E-03
9395	TRAPPC2L	-4.91	2.49E-04
9396	TRAPPC3	-6.45	5.97E-05
9397	TRAPPC4	-4.37	5.02E-04
9398	TRAPPC5	-2.40	5.09E-02
9399	TRAPPC6B	-6.78	5.04E-04
9400	TRAPPC8	-3.85	4.62E-03
9401	TRAPPC9	-2.25	2.29E-03
9402	TRDMT1	-1.29	5.07E-04
9403	TRDV3	-2.08	5.39E-03
9404	TRIAF1	-5.29	9.11E-04
9405	TRIB2	-1.55	2.23E-02
9406	TRIM23	-1.80	8.57E-03
9407	TRIM24	-4.71	2.19E-04
9408	TRIM33	-1.41	5.47E-02
9409	TRIM36	-7.26	7.49E-04
9410	TRIM37	-6.45	2.18E-05
9411	TRIM42	-4.84	1.81E-04
9412	TRIM59	-2.34	3.86E-04
9413	TRIM63	-3.16	1.28E-02
9414	TRIP11	-3.58	2.70E-04
9415	TRIP12	-2.19	6.15E-03
9416	TRIP13	-4.95	5.87E-03
9417	TRIP4	-3.70	1.42E-02
9418	TRIT1	-2.97	1.96E-03
9419	TRMT11	-1.71	8.27E-04
9420	TRMT11L	-2.75	2.12E-03
9421	TRMT2A	-5.73	1.04E-04
9422	TRMT5	-4.21	1.35E-03
9423	TRMT61A	-1.92	4.63E-04
9424	TRMU	-5.28	2.08E-03
9425	TRNAU1AP	-5.82	2.38E-04
9426	TRNT1	-3.69	1.19E-03
9427	TRPC1	-1.95	1.31E-03
9428	TRPC3	-3.35	7.57E-04
9429	TRPC4AP	-2.03	1.42E-02
9430	TRPS1	-2.16	5.07E-03
9431	TRPV1	-4.45	6.91E-04
9432	TRSPAP1	-1.93	1.04E-03
9433	TRUB1	-3.40	4.71E-03
9434	TRUB2	-1.38	1.51E-02
9435	TSC22D1	-3.12	3.32E-03
9436	TSC22D3	-2.45	3.64E-03
9437	TSEN15	-4.27	1.03E-04
9438	TSEN2	-3.71	2.05E-03
9439	TSGA14	-7.40	4.72E-04
9440	TSN	-3.15	3.99E-03
9441	TSNAXIP1	-4.70	1.93E-03
9442	TSPAN13	-4.92	1.39E-03

9443	TSPAN15	-1.70	8.70E-03
9444	TSPAN3	-7.13	1.04E-03
9445	TSPAN6	-5.71	1.62E-05
9446	TSPO	-3.76	1.47E-04
9447	TSR1	-1.92	3.60E-03
9448	TSSC4	-3.64	4.14E-03
9449	TSSK3	-4.52	6.98E-04
9450	TSSK6	-7.00	9.71E-05
9451	TSTD2	-4.44	1.11E-03
9452	TTBK2	-2.58	8.33E-04
9453	TTC1	-3.99	1.99E-04
9454	TTC12	-6.92	1.78E-04
9455	TTC13	-1.48	1.50E-02
9456	TTC14	-3.30	1.28E-03
9457	TTC15	-3.72	4.32E-03
9458	TTC19	-2.73	1.39E-04
9459	TTC21B	-5.39	1.22E-03
9460	TTC26	-1.84	1.21E-02
9461	TTC27	-4.26	1.55E-04
9462	TTC29	-4.33	5.69E-04
9463	TTC30A	-6.19	1.14E-04
9464	TTC32	-7.54	2.00E-03
9465	TTC33	-2.47	1.57E-03
9466	TTC35	-6.18	1.59E-04
9467	TTC36	-2.48	3.98E-01
9468	TTC37	-3.76	2.02E-04
9469	TTC39A	-4.40	4.14E-03
9470	TTC39B	-3.85	2.00E-04
9471	TTC7A	-3.12	2.20E-03
9472	TTC7B	-4.09	3.81E-03
9473	TTC8	-6.84	6.17E-04
9474	TTF2	-2.79	6.27E-03
9475	TTI1	-1.59	7.98E-03
9476	TTI2	-2.42	4.45E-03
9477	TTLL1	-2.09	1.59E-03
9478	TTLL11	-3.84	1.59E-03
9479	TTLL12	-5.65	4.85E-04
9480	TTLL5	-5.88	4.14E-05
9481	TTPAL	-2.65	8.11E-03
9482	TTYH3	-1.54	8.11E-04
9483	TUBA1C	-2.78	4.41E-03
9484	TUBA3E	-6.11	4.84E-04
9485	TUBA4A	-5.69	1.71E-04
9486	TUBA8	-6.86	1.57E-03
9487	TUBB1	-1.54	4.60E-03
9488	TUBB2B	-2.71	1.21E-03
9489	TUBB2C	-7.00	7.45E-04
9490	TUBB3	-5.55	6.82E-06
9491	TUBB6	-2.12	3.28E-03
9492	TUBE1	-2.39	3.15E-03
9493	TUBG1	-4.21	4.79E-03
9494	TUBGCP2	-2.55	2.45E-03
9495	TUBGCP3	-5.25	4.91E-03
9496	TUBGCP4	-1.81	3.12E-02
9497	TUSC2	-6.15	3.74E-04
9498	TUSC3	-2.40	5.13E-03
9499	TUT1	-1.15	2.58E-02
9500	TVP23B	-5.41	1.82E-04
9501	TWF2	-1.48	2.07E-03
9502	TWISTNB	-3.18	8.62E-04
9503	TWSG1	-1.73	1.84E-02
9504	TXLNA	-1.40	2.33E-02
9505	TXLNG	-3.94	4.08E-04

9506	TXN	-7.24	1.34E-04
9507	TXN2	-5.90	4.05E-04
9508	TXNDC12	-4.08	3.00E-04
9509	TXNDC17	-3.78	7.39E-04
9510	TXNDC3	-5.48	9.04E-04
9511	TXNDC5	-3.16	2.68E-03
9512	TXNDC9	-6.33	9.67E-04
9513	TXNL1	-4.45	3.36E-05
9514	TXNL4A	-4.00	2.56E-03
9515	TXNL4B	-3.11	3.39E-03
9516	TXNRD1	-4.48	4.74E-04
9517	TXNRD2	-2.04	2.57E-03
9518	TXNRD3	-4.04	7.47E-04
9519	TYMS	-3.91	5.53E-04
9520	TYRO3	-2.89	9.76E-04
9521	TYW5	-3.08	2.70E-04
9522	U25026	-2.11	1.84E-03
9523	U2AF1	-3.17	1.25E-03
9524	U2SURP	-3.03	3.11E-03
9525	U31667	-6.56	4.68E-06
9526	U93866	-1.69	1.29E-02
9527	UBA2	-3.78	2.48E-04
9528	UBA52	-6.71	5.55E-05
9529	UBAC2	-2.32	9.81E-04
9530	UBAP1	-3.32	6.69E-04
9531	UBAP2	-2.18	3.56E-03
9532	UBC	-5.56	4.32E-05
9533	UBE2A	-5.00	1.30E-04
9534	UBE2CBP	-3.50	7.65E-04
9535	UBE2D1	-6.81	1.60E-03
9536	UBE2D2	-4.01	1.07E-03
9537	UBE2D3	-4.61	8.34E-05
9538	UBE2E1	-1.89	7.91E-03
9539	UBE2F	-5.46	1.40E-03
9540	UBE2G1	-2.00	3.61E-03
9541	UBE2G2	-6.49	4.51E-06
9542	UBE2H	-1.91	8.17E-03
9543	UBE2I	-5.92	4.20E-05
9544	UBE2J1	-1.93	1.13E-02
9545	UBE2J2	-2.44	1.10E-03
9546	UBE2K	-5.40	1.40E-04
9547	UBE2L3	-5.58	1.54E-04
9548	UBE2N	-2.60	2.45E-04
9549	UBE2O	-2.83	1.60E-03
9550	UBE2Q2	-4.34	2.36E-05
9551	UBE2QL1	-1.21	9.82E-04
9552	UBE2R2	-3.41	5.78E-04
9553	UBE2T	-5.32	4.53E-04
9554	UBE2V2	-2.49	1.69E-03
9555	UBE2W	-2.95	4.05E-03
9556	UBE2Z	-3.59	8.98E-04
9557	UBE3A	-3.92	8.24E-03
9558	UBE3C	-1.38	6.56E-04
9559	UBE4A	-2.80	4.00E-03
9560	UBFD1	-1.58	1.56E-03
9561	UBI	-1.78	1.37E-03
9562	UBIAD1	-1.68	8.45E-04
9563	UBL3	-2.72	8.75E-03
9564	UBLCP1	-3.67	3.98E-04
9565	UBOX5	-4.76	2.04E-04
9566	UBP1	-4.87	3.98E-04
9567	UBQLN1	-2.66	2.82E-03
9568	UBQLN4	-3.74	5.37E-04

9569	UBR1	-3.37	3.25E-04
9570	UBR2	-2.87	2.55E-03
9571	UBR7	-3.75	8.57E-04
9572	UBTD2	-2.80	8.18E-03
9573	UBXN11	-3.42	4.79E-03
9574	UBXN2A	-3.10	2.75E-03
9575	UBXN2B	-4.97	1.03E-04
9576	UBXN4	-6.04	2.46E-04
9577	UBXN6	-5.26	1.76E-04
9578	UCHL1	-7.23	1.13E-04
9579	UCHL3	-6.46	2.11E-04
9580	UCHL5	-4.61	2.64E-04
9581	UCK1	-2.67	3.98E-03
9582	UFD1L	-6.01	7.29E-04
9583	UFM1	-4.88	1.79E-05
9584	UGGT1	-3.20	1.49E-03
9585	UGGT2	-3.81	3.19E-05
9586	UGP2	-3.61	6.18E-04
9587	UGT1A1	-1.59	6.12E-03
9588	UGT8	-2.65	1.39E-02
9589	UHM1	-7.04	2.89E-05
9590	UHRF1	-3.93	2.51E-03
9591	UHRF1BP1L	-4.32	2.23E-04
9592	UMP5	-3.50	1.79E-03
9593	UNC119B	-2.53	1.24E-03
9594	UNC50	-4.53	1.41E-04
9595	UNC5C	-1.26	1.04E-03
9596	UNC5D	-2.34	2.38E-02
9597	UPB1	-6.97	2.01E-04
9598	UPF1	-3.86	2.02E-03
9599	UPF2	-1.30	4.96E-02
9600	UPF3A	-4.33	7.27E-04
9601	UPP1	-3.60	5.44E-03
9602	UPP2	-2.77	8.17E-03
9603	UPRT	-3.78	2.01E-05
9604	UQCC	-3.55	9.54E-04
9605	UQCR10	-5.27	1.75E-04
9606	UQCR11	-5.02	1.20E-04
9607	UQCRC1	-5.33	3.51E-05
9608	UQCRC2	-4.93	7.19E-04
9609	UQCRFS1	-7.04	2.23E-04
9610	UQCRH	-8.45	6.79E-04
9611	UQCRQ	-5.17	3.53E-04
9612	URM1	-3.10	8.72E-04
9613	UROD	-1.23	8.34E-03
9614	UROS	-2.50	1.32E-03
9615	URP	-5.72	7.43E-05
9616	USE1	-2.58	9.99E-05
9617	USO1	-4.01	8.80E-04
9618	USP1	-1.48	1.04E-02
9619	USP10	-1.82	4.66E-03
9620	USP12	-2.12	1.03E-03
9621	USP12P1	-1.60	1.81E-02
9622	USP14	-2.93	1.88E-03
9623	USP15	-1.48	1.76E-02
9624	USP16	-4.15	9.24E-04
9625	USP18	-1.59	6.50E-03
9626	USP2	-4.73	3.44E-04
9627	USP20	-1.98	1.19E-02
9628	USP22	-3.05	4.58E-04
9629	USP25	-2.16	3.39E-03
9630	USP28	-5.27	1.18E-04
9631	USP3	-2.16	1.79E-03

9632	USP30	-1.92	6.43E-03
9633	USP32	-1.43	5.89E-02
9634	USP33	-4.28	1.77E-05
9635	USP34	-1.91	3.15E-04
9636	USP38	-6.93	1.60E-04
9637	USP4	-3.36	2.21E-03
9638	USP42	-4.34	2.94E-03
9639	USP45	-1.44	2.42E-03
9640	USP46	-2.56	2.94E-03
9641	USP47	-4.91	6.43E-04
9642	USP48	-3.90	5.39E-05
9643	USP49	-2.90	2.16E-03
9644	USP5	-1.45	5.43E-03
9645	USP6NL	-3.01	8.50E-03
9646	USP7	-4.41	7.90E-04
9647	USP9X	-5.35	2.67E-03
9648	USPL1	-3.73	3.35E-04
9649	UTP11L	-5.42	3.58E-05
9650	UTP15	-3.94	5.82E-04
9651	UTP18	-3.76	3.37E-04
9652	UTP23	-6.22	1.57E-04
9653	UTP3	-3.37	2.83E-06
9654	UTP6	-3.69	5.05E-03
9655	UXS1	-2.82	5.26E-03
9656	V00414	-6.64	1.58E-04
9657	VAC14	-3.78	3.21E-03
9658	VAMP3	-2.07	3.19E-03
9659	VAMP4	-4.78	3.82E-05
9660	VAMP7	-2.47	5.90E-04
9661	VAPB	-1.84	1.37E-02
9662	VASH2	-5.29	6.32E-04
9663	VBP1	-7.70	4.45E-04
9664	VCL	-1.78	1.78E-02
9665	VCP	-3.86	1.36E-02
9666	VCPIP1	-3.46	6.03E-03
9667	VDAC1	-4.02	8.43E-04
9668	VDAC2	-7.86	3.65E-06
9669	VDAC3	-2.98	2.33E-03
9670	VEZF1	-2.11	3.77E-04
9671	VGLL1	-3.93	9.13E-03
9672	VGLL4	-2.48	3.23E-03
9673	VIM	-1.60	1.08E-02
9674	VIMP	-5.86	7.53E-05
9675	VIPAR	-1.32	6.38E-03
9676	VIPR2	-1.25	5.07E-02
9677	VLDLR	-4.07	1.89E-03
9678	VMA21	-2.71	3.66E-03
9679	VMP1	-4.33	3.79E-04
9680	VOPP1	-2.71	2.27E-03
9681	VPRBP	-2.63	1.23E-02
9682	VPREB3	-1.76	8.44E-03
9683	VPS11	-1.52	2.42E-03
9684	VPS13B	-3.65	7.78E-03
9685	VPS13C	-1.46	1.14E-02
9686	VPS13D	-3.72	7.86E-04
9687	VPS18	-3.10	8.00E-04
9688	VPS24	-6.23	1.51E-04
9689	VPS26A	-3.52	6.56E-04
9690	VPS26B	-1.31	2.52E-02
9691	VPS29	-2.57	2.88E-04
9692	VPS33A	-2.49	7.80E-03
9693	VPS33B	-2.93	2.43E-03
9694	VPS35	-4.09	5.05E-04

9695	VPS36	-2.08	2.96E-03
9696	VPS37A	-3.14	1.14E-03
9697	VPS37C	-2.81	1.88E-03
9698	VPS39	-4.14	1.50E-04
9699	VPS41	-5.29	6.33E-05
9700	VPS4B	-4.07	1.58E-03
9701	VPS72	-1.80	2.43E-03
9702	VPS8	-2.92	2.15E-04
9703	VRK1	-1.65	4.82E-03
9704	VRK3	-4.57	9.07E-04
9705	VSNL1	-3.32	6.38E-04
9706	VSX1	-1.12	5.57E-03
9707	VTA1	-5.87	3.46E-04
9708	VTG2	-2.46	1.50E-03
9709	VTI1A	-3.28	1.76E-03
9710	VTI1B	-4.56	4.98E-04
9711	VVA9	-4.00	4.13E-04
9712	VWC2	-3.40	4.67E-03
9713	WAC	-3.38	3.62E-04
9714	WAPAL	-2.36	6.77E-03
9715	WARS	-2.09	6.92E-04
9716	WASF1	-1.90	4.18E-03
9717	WASF3	-2.30	2.82E-03
9718	WASH1	-3.65	1.11E-04
9719	WASL	-4.19	1.73E-02
9720	WBP11	-3.44	5.25E-03
9721	WBP2	-4.28	8.14E-04
9722	WBP4	-2.22	5.68E-03
9723	WBSCR16	-3.66	5.64E-03
9724	WBSCR22	-2.35	3.61E-02
9725	WDFY1	-2.46	2.76E-03
9726	WDFY4	-1.12	3.28E-02
9727	WDHD1	-1.77	3.12E-03
9728	WDPCP	-2.30	8.21E-03
9729	WDR1	-3.61	2.45E-04
9730	WDR11	-1.71	2.11E-03
9731	WDR12	-3.42	9.02E-04
9732	WDR24	-2.70	2.36E-03
9733	WDR25	-4.47	2.14E-04
9734	WDR26	-3.93	4.12E-04
9735	WDR33	-2.49	6.42E-04
9736	WDR34	-4.97	3.30E-04
9737	WDR35	-5.26	1.41E-04
9738	WDR36	-3.22	7.42E-03
9739	WDR37	-1.68	3.11E-03
9740	WDR4	-2.00	4.63E-03
9741	WDR41	-2.19	2.08E-02
9742	WDR43	-3.21	9.55E-04
9743	WDR45L	-3.87	1.03E-03
9744	WDR47	-1.39	6.91E-04
9745	WDR48	-2.17	5.06E-03
9746	WDR52	-6.47	5.08E-05
9747	WDR53	-1.81	6.41E-03
9748	WDR59	-2.51	1.10E-03
9749	WDR61	-3.93	2.23E-04
9750	WDR63	-6.36	1.70E-04
9751	WDR65	-7.24	2.46E-04
9752	WDR66	-4.53	3.26E-04
9753	WDR67	-3.10	2.68E-04
9754	WDR69	-9.02	9.92E-04
9755	WDR70	-2.02	7.81E-03
9756	WDR73	-4.56	3.32E-04
9757	WDR75	-4.84	4.90E-04

9758	WDR77	-3.85	4.93E-04
9759	WDR81	-2.63	3.94E-02
9760	WDR82	-3.64	7.58E-04
9761	WDR91	-4.51	2.27E-04
9762	WDR92	-5.17	6.31E-04
9763	WDC1	-4.16	1.30E-04
9764	WEE1	-8.04	5.00E-04
9765	WFS1	-3.59	6.35E-04
9766	WHDC1	-2.92	4.92E-03
9767	WHSC2	-4.04	1.45E-03
9768	WIF1	-1.95	4.35E-04
9769	WIPI2	-3.93	1.27E-03
9770	WISP1	-3.75	4.16E-04
9771	WLS	-3.81	1.18E-04
9772	WRAP73	-4.11	1.24E-02
9773	WRB	-3.44	2.73E-04
9774	WRNIP1	-2.34	4.20E-03
9775	WSB2	-4.53	8.59E-04
9776	WT1	-2.75	6.54E-03
9777	WTAP	-4.55	6.08E-04
9778	WTIP	-2.42	4.26E-03
9779	WWC1	-2.71	1.99E-03
9780	WWP1	-2.07	4.35E-04
9781	X59368	-4.76	5.51E-04
9782	XAB1	-3.50	1.19E-03
9783	XAF1	-6.61	2.56E-04
9784	XBP1	-4.09	8.68E-03
9785	XDH	-3.05	9.97E-05
9786	XIAP	-1.60	3.92E-03
9787	XPA	-3.94	1.41E-03
9788	XPC	-2.39	6.20E-03
9789	XPNPEP1	-2.48	1.40E-02
9790	XPNPEP3	-1.93	1.15E-02
9791	XPO1	-2.44	1.98E-03
9792	XPOT	-2.29	4.36E-03
9793	XPR1	-1.86	4.84E-04
9794	XRCC2	-3.55	2.93E-04
9795	XRCC3	-2.16	2.93E-04
9796	XRCC6	-3.25	9.13E-04
9797	XRCC6BP1	-5.03	8.08E-05
9798	XRN1	-3.33	1.28E-02
9799	XRN2	-5.69	7.29E-04
9800	XYLT2	-3.63	1.39E-03
9801	YAE1D1	-3.57	4.06E-05
9802	YAF2	-2.79	6.59E-04
9803	YAP1	-2.95	2.48E-03
9804	YARS	-4.58	3.56E-04
9805	YARS2	-3.16	1.98E-04
9806	YBX1	-7.90	6.58E-04
9807	YDJC	-3.42	1.45E-03
9808	YEATS4	-5.82	1.62E-04
9809	YIPF1	-4.72	1.94E-04
9810	YIPF3	-4.97	6.97E-05
9811	YIPF4	-3.39	6.93E-04
9812	YIPF5	-4.68	3.01E-03
9813	YLP1	-2.06	2.36E-03
9814	YME1L1	-4.92	5.25E-04
9815	YOD1	-1.45	1.04E-03
9816	YPEL1	-3.60	1.07E-03
9817	YPEL2	-1.52	3.75E-02
9818	YPEL5	-6.74	5.11E-05
9819	YRDC	-5.31	2.84E-04
9820	YSK4	-3.24	1.70E-02

9821	YTHDC1	-1.56	3.66E-02
9822	YTHDC2	-2.88	7.69E-04
9823	YTHDF1	-3.50	4.31E-04
9824	YTHDF2	-2.35	1.55E-02
9825	YTHDF3	-2.52	8.53E-03
9826	YWHA8	-3.14	2.64E-03
9827	YWHA8E	-3.78	6.70E-04
9828	YWHAG	-1.39	3.05E-02
9829	YWHAH	-5.58	3.02E-04
9830	YWHAQ	-5.87	5.97E-05
9831	YWHAZ	-6.43	4.05E-05
9832	YY1	-4.39	7.05E-04
9833	ZAK	-2.94	1.14E-03
9834	ZAR1	-2.06	1.88E-02
9835	ZAR1L	-4.26	2.16E-04
9836	ZBTB10	-2.92	3.33E-03
9837	ZBTB2	-3.95	1.46E-03
9838	ZBTB20	-2.39	3.08E-03
9839	ZBTB26	-3.36	5.27E-04
9840	ZBTB43	-1.99	3.70E-03
9841	ZBTB44	-2.04	3.84E-03
9842	ZBTB46	-3.41	6.74E-03
9843	ZBTB48	-1.92	3.68E-03
9844	ZBTB49	-1.76	2.38E-03
9845	ZC2HC1A	-3.05	1.45E-03
9846	ZC2HC1B	-8.06	5.71E-04
9847	ZC3H11A	-1.51	5.85E-02
9848	ZC3H13	-5.04	2.49E-04
9849	ZC3H14	-3.68	1.63E-06
9850	ZC3H15	-7.45	7.23E-05
9851	ZC3H18	-1.37	3.88E-02
9852	ZC3H3	-1.44	2.40E-03
9853	ZC3H6	-3.02	1.51E-04
9854	ZC3H7A	-2.65	3.24E-04
9855	ZC3HAV1	-3.28	2.46E-04
9856	ZC4H2	-3.35	1.20E-03
9857	ZCCHC10	-2.19	2.10E-02
9858	ZCCHC11	-3.78	4.81E-05
9859	ZCCHC17	-4.59	8.67E-04
9860	ZCCHC4	-2.52	2.33E-02
9861	ZCCHC6	-2.20	3.44E-03
9862	ZCCHC7	-2.59	3.63E-05
9863	ZCCHC8	-3.76	4.94E-05
9864	ZCCHC9	-3.28	6.42E-04
9865	ZCRB1	-5.11	4.26E-04
9866	ZDBF2	-5.66	7.82E-04
9867	ZDHC1	-1.27	1.49E-02
9868	ZDHC13	-5.52	2.27E-04
9869	ZDHC16	-1.71	7.05E-02
9870	ZDHC17	-2.56	2.25E-04
9871	ZDHC2	-1.30	1.22E-02
9872	ZDHC21	-3.37	1.97E-04
9873	ZDHC6	-4.62	1.30E-04
9874	ZDHC8	-1.18	3.89E-03
9875	ZDHC9	-4.97	5.21E-05
9876	ZEB1	-1.83	3.18E-02
9877	ZER1	-2.27	1.79E-03
9878	ZFAND1	-4.57	5.46E-04
9879	ZFAND2A	-3.25	2.14E-04
9880	ZFAND3	-6.50	2.54E-04
9881	ZFAND5	-6.07	3.31E-04
9882	ZFAND6	-1.99	9.90E-03
9883	ZFAT	-1.48	2.27E-04

9884	ZFC3H1	-4.19	1.53E-03
9885	ZFHX3	-2.41	2.73E-02
9886	ZFX	-2.48	9.85E-05
9887	ZFYVE19	-2.92	5.23E-03
9888	ZFYVE20	-1.67	1.65E-02
9889	ZFYVE21	-4.08	4.44E-04
9890	ZFYVE28	-2.63	6.18E-03
9891	ZFYVE9	-3.55	3.56E-04
9892	ZIC1	-4.30	8.28E-04
9893	ZMAT2	-4.97	6.19E-05
9894	ZMYM4	-2.56	2.94E-02
9895	ZNF143	-3.23	2.62E-04
9896	ZNF217	-3.70	1.13E-03
9897	ZNF236	-1.81	3.32E-02
9898	ZNF238	-2.78	3.12E-05
9899	ZNF259	-1.39	1.17E-03
9900	ZNF277	-2.95	3.49E-05
9901	ZNF280D	-2.17	1.71E-02
9902	ZNF292	-3.46	2.69E-04
9903	ZNF318	-3.23	5.92E-04
9904	ZNF326	-5.23	1.55E-04
9905	ZNF330	-2.06	1.45E-03
9906	ZNF335	-2.54	2.82E-03
9907	ZNF341	-4.74	9.21E-04
9908	ZNF346	-3.76	4.88E-03
9909	ZNF365	-3.03	1.23E-03
9910	ZNF367	-3.05	3.87E-03
9911	ZNF407	-1.16	2.13E-02
9912	ZNF410	-3.95	2.21E-04
9913	ZNF507	-2.64	2.78E-03
9914	ZNF511	-1.23	1.52E-02
9915	ZNF512	-2.72	9.89E-04
9916	ZNF513	-1.39	1.69E-02
9917	ZNF568	-2.93	1.11E-03
9918	ZNF592	-3.34	6.80E-03
9919	ZNF593	-6.46	7.51E-05
9920	ZNF598	-3.54	1.07E-03
9921	ZNF609	-1.31	1.01E-02
9922	ZNF618	-4.72	5.47E-03
9923	ZNF622	-4.37	1.00E-03
9924	ZNF639	-4.52	4.63E-04
9925	ZNF692	-1.69	9.84E-03
9926	ZNF704	-1.76	5.86E-02
9927	ZNF706	-4.86	1.76E-04
9928	ZNF777	-2.29	1.34E-03
9929	ZNF804A	-3.80	7.49E-03
9930	ZNF821	-3.75	2.26E-04
9931	ZNF830	-2.74	9.07E-03
9932	ZNHIT6	-3.41	6.69E-04
9933	ZNRF2	-3.76	5.28E-04
9934	ZNRF4	-7.06	3.84E-05
9935	ZP4	-2.49	1.04E-03
9936	ZPBP	-7.60	1.12E-04
9937	ZPBP2	-3.44	5.40E-03
9938	ZPD	-3.30	5.61E-04
9939	ZRANB2	-3.06	6.74E-03
9940	ZRSR2	-4.83	1.21E-03
9941	ZSWIM7	-7.47	1.99E-04
9942	ZUFSP	-2.59	6.41E-03
9943	ZW10	-5.61	1.31E-04
9944	ZXDC	-3.19	2.59E-04
9945	ZYX	-3.72	1.54E-04
9946	ZZZ3	-2.49	2.36E-03

Table S1: NanoDrop analysis of labelled cRNA

Sample	Dye	Pmol/ μ l	Concentration (ng/ μ l)	260/280	Specific activity
Testis_1	Cy3	3.43	243.12	2.28	14.11
Testis_2	Cy3	2.55	177.90	2.30	14.33
Sperm_1	Cy3	11.93	645.76	2.32	18.47
Sperm_2	Cy3	4.73	295.58	2.16	16.00

Figure S1: The scatter plots of gene expression values in two biological replicated showing linear relationship (A: testis replicates; B: sperm replicates)

Table S2:: Correlation coefficient based on the expression intensity values in testis and sperm samples.

Array Name	Testis_1	Testis_2	Sperm_1	Sperm_2
Testis_1	1			
Testis_2	0.995499	1		
Sperm_1			1	
Sperm_2			0.916439	1

Figure S2: Image showing clusters of genes for intra-array quality control. Intra-array normalization deals with variability within a single array. In intra array normalization, gprocessed signals (dye normalized background subtracted signal intensity) was log transformed and then for each of the array the 75th percentile value was calculated separately. In each sample the log transformed intensity values for each probe was subtracted by the calculated 75th percentile value of the respective array and expression values were obtained.

Table S3: A list of down regulated transcripts related to ribosomal machinery in sperm.

S. No	Gene Name	Fold Expression	P-Value
1	RPL30	-8.97	5.12E-05
2	RPLP1	-8.85	1.46E-05
3	RPL37	-8.80	3.76E-04
4	RPL26L1	-8.74	6.22E-06
5	RPL9	-8.66	8.56E-05
6	ENSGALT00000035726	-8.65	2.12E-05
7	RPL32	-8.51	2.60E-05
8	RPL35	-8.51	5.03E-05
9	RPL29	-8.46	3.18E-04
10	RPS20	-8.44	1.12E-04
11	RPL24	-8.33	2.15E-04
12	RPS27A	-8.32	1.43E-04
13	RPL5	-8.28	2.95E-05
14	RPS4X	-8.25	5.22E-05
15	RPS6	-8.19	4.82E-05
16	RPS8	-8.18	1.06E-04
17	RPS17L	-8.14	4.06E-05
18	RPL13	-8.06	1.89E-05
19	RPS12	-8.03	3.06E-05
20	RPL4	-7.97	3.53E-05
21	RPL37A	-7.91	7.16E-05

22	MRPS17	-7.87	1.84E-04
23	RPL35A	-7.83	4.50E-04
24	RPS23	-7.79	1.65E-05
25	RPL18A	-7.73	9.22E-04
26	RPS3	-7.71	9.65E-05
27	RPS11	-7.63	2.11E-05
28	RPL36	-7.61	7.45E-05
29	RPS7	-7.53	4.40E-04
30	MRPS28	-7.45	5.98E-06
31	RPL11	-7.44	2.24E-04
32	RPS14	-7.43	3.03E-05
33	RPSA	-7.43	3.57E-05
34	RPL19	-7.42	2.59E-04
35	MRPL18	-7.39	1.20E-04
36	RPL10A	-7.39	5.14E-04
37	RPS29	-7.31	1.29E-03
38	RPS15	-7.29	5.11E-04
39	ENSGALT00000002410	-7.22	3.11E-04
40	RPL7	-7.22	1.17E-04
41	RPL27	-7.21	2.27E-04
42	ENSGALT000000035955	-7.09	4.63E-05
43	MRP63	-7.07	1.70E-04
44	RPL3	-7.06	4.10E-04

45	RPL21	-7.02	9.09E-05
46	MRPL23	-6.87	3.41E-04
47	UBA52	-6.71	5.55E-05
48	MRPL44	-6.54	2.89E-04
49	RPS13	-6.43	4.45E-04
50	MRPL27	-6.27	1.05E-04
51	MRPL50	-6.23	5.19E-04
52	ENSGALT00000033073	-6.02	2.46E-03
53	MRPL39	-6.00	1.50E-04
54	MRPL30	-5.90	5.15E-04
55	RPLP2	-5.87	1.79E-04
56	RPL7L1	-5.82	1.73E-03
57	MRPS23	-5.81	8.71E-04
58	MRPS12	-5.78	2.47E-04
59	MRPL53	-5.70	1.96E-03
60	MRPS25	-5.68	3.96E-03
61	MRPL21	-5.65	5.26E-04
62	MRPS5	-5.65	2.44E-04
63	MRPL12	-5.58	2.18E-05
64	MRPL16	-5.30	5.73E-04
65	RRP15	-5.30	8.73E-05
66	MRPL15	-5.17	8.48E-04
67	MRPL38	-5.13	2.37E-04

68	MRPS26	-5.13	1.50E-03
69	MRPS36	-5.11	1.92E-03
70	MRPL48	-5.08	3.23E-04
71	MRPS30	-5.06	1.39E-03
72	RSL24D1	-5.06	3.72E-04
73	MRPS18A	-5.00	1.08E-03
74	RRP7A	-4.97	8.83E-04
75	MRPS22	-4.88	2.32E-04
76	MRPL3	-4.85	1.86E-03
77	MRPS14	-4.69	2.32E-03
78	MRPL37	-4.65	2.54E-04
79	MRPL24	-4.63	2.38E-03
80	ZCCHC17	-4.59	8.67E-04
81	MRPL45	-4.42	2.02E-03
82	MRPL33	-4.34	1.75E-04
83	MRPS35	-4.34	4.96E-04
84	ENSGALT00000002763	-4.33	9.95E-05
85	MRPL51	-4.19	1.21E-03
86	MRPL28	-4.16	8.10E-03
87	MRPL32	-4.04	5.23E-04
88	MRPS10	-3.99	2.56E-03
89	DAP3	-3.98	4.90E-03
90	MRPS21	-3.85	7.29E-04

91	TC409229	-3.64	1.33E-03
92	RSL1D1	-3.50	5.90E-04
93	ENSGALT00000035573	-3.47	1.69E-03
94	MRPL2	-3.24	1.06E-02
95	NPM1	-3.23	1.71E-03
96	MRPS33	-3.10	2.61E-02
97	MRPL19	-3.05	1.79E-03
98	RRNAD1	-2.80	1.00E-03
99	MRPS6	-2.76	1.66E-02
100	MRPL22	-2.69	6.31E-04
101	MRPS2	-2.56	9.10E-03
102	MRPS27	-2.39	2.41E-03
103	MRPL1	-2.32	1.05E-02
104	RRP1B	-2.28	2.06E-01
105	RPS6KC1	-2.27	6.96E-03
106	RPS6KA2	-2.20	4.77E-03
107	MALSU1	-1.89	6.28E-03
108	TC399074	-1.75	1.92E-03
109	RPS6KA6	-1.41	6.62E-02
110	MRPL10	-1.34	3.96E-02

Table S4: RT-qPCR values of *ACTB* and *GAPDH* in testis and sperm RNA samples

Gene name	Ct values	
	Testis RNA	Sperm RNA
ACTB	22.88	34.93
GAPDH	24.44	25.07

Draft

S.No.	Gene	Fold change	P-Value	68	ADAMTS9	1.04	2.15E-02	136	AJ719919	2.45	3.36E-03
1	41699	1.74	2.05E-02	69	ADAMTSL1	1.55	6.57E-02	137	AJ720282	3.38	2.10E-03
2	41702	1.81	1.34E-02	70	ADAMTSL3	3.79	3.96E-04	138	AJ720749	1.88	1.89E-02
3	41706	3.04	3.82E-03	71	ADARB2	6.77	1.02E-03	139	AJ720835	6.50	4.04E-03
4	41894	2.44	1.29E-04	72	ADCY1	4.36	1.29E-02	140	AJ721074	1.14	7.47E-03
5	M28100	1.19	1.89E-01	73	ADCY5	2.80	5.93E-03	141	AJ722285	4.41	7.25E-05
6	A1CF	1.96	1.09E-02	74	ADIPOQ	1.98	2.39E-03	142	AJ729814	2.11	1.13E-02
7	A4GALT	7.07	1.14E-03	75	ADMP	2.11	3.69E-03	143	AJ736013	5.01	1.86E-03
8	A4GNT	6.42	1.29E-04	76	ADORA1	1.13	5.88E-03	144	AKR1B1L	1.78	3.03E-03
9	AADACL2	4.83	4.42E-03	77	ADORA2A	2.95	1.46E-03	145	AKR1D1	3.14	1.45E-02
10	AADACL3	3.81	8.11E-03	78	ADORA2B	2.56	5.35E-04	146	AKT3	4.47	6.33E-04
11	AAK1	1.67	9.68E-03	79	ADORA3	3.28	8.20E-03	147	AL587215	3.66	2.15E-02
12	AANAT	1.38	6.85E-02	80	ADPRHL1	2.60	2.41E-02	148	ALAD	2.35	3.86E-04
13	AB178596	3.40	1.84E-02	81	ADPRHL2	1.43	9.89E-03	149	ALDH3B1	3.74	2.72E-03
14	AB193010	5.66	5.58E-03	82	ADRA1A	3.34	1.10E-03	150	ALDH8A1	7.53	5.93E-03
15	AB193015	5.10	6.32E-03	83	ADRA1B	3.94	4.30E-03	151	ALG9	1.54	1.60E-01
16	AB232994	4.67	1.59E-05	84	ADRA2A	2.35	2.72E-04	152	ALK	2.72	2.51E-03
17	AB232995	2.46	1.47E-02	85	ADRA2B	3.58	1.88E-03	153	ALPK3	3.03	3.83E-03
18	AB232999	1.51	1.67E-02	86	ADRA2C	4.33	1.03E-02	154	ALPL	1.66	4.49E-04
19	AB233000	5.09	7.96E-03	87	ADRB1	3.65	6.32E-04	155	ALX4	2.06	4.08E-03
20	AB233001	3.18	2.57E-03	88	ADRB2	4.63	1.25E-02	156	AM067177	3.55	7.66E-03
21	AB233004	3.29	7.95E-02	89	AF003093	2.22	1.83E-03	157	AM067499	4.86	3.33E-04
22	AB233009	2.98	3.34E-03	90	AF026562	2.74	2.62E-02	158	AM068168	1.29	1.56E-03
23	AB233011	4.87	5.07E-03	91	AF175441	6.00	2.82E-03	159	AM068169	3.57	8.44E-03
24	AB233015	5.72	8.08E-03	92	AF175443	5.60	6.07E-04	160	AM070520	3.42	7.16E-03
25	AB233016	4.73	8.05E-03	93	AF175447	6.12	2.06E-03	161	AM076726	6.52	2.30E-05
26	AB233022	5.90	4.76E-03	94	AF175454	6.78	5.37E-04	162	AM773244	2.98	1.70E-02
27	AB233025	4.15	1.01E-02	95	AF175456	2.55	5.03E-02	163	AM773245	4.87	8.27E-03
28	AB376099	5.56	4.17E-03	96	AF175458	5.72	2.47E-03	164	AM773248	4.03	1.04E-02
29	AB617822	2.06	5.85E-03	97	AF182318	6.39	5.45E-03	165	AM773249	4.93	1.53E-03
30	AB710349	1.73	1.02E-02	98	AF208400	1.35	2.64E-02	166	AM773254	4.52	8.47E-03
31	ABCA4	1.79	3.52E-03	99	AF375474	1.17	9.12E-02	167	AM773255	5.75	6.54E-03
32	ABCA5	3.31	3.42E-03	100	AFAP1	1.61	2.72E-03	168	AM773257	6.65	1.68E-03
33	ABCA8	5.19	1.65E-03	101	AFAP1L2	1.71	6.35E-02	169	AM773258	5.40	7.46E-03
34	ABCA9	2.93	6.38E-03	102	AGAP3	3.41	2.49E-06	170	AM773259	1.56	7.96E-03
35	ABCB9	4.63	5.65E-03	103	AGBL1	2.29	1.70E-02	171	AM773262	2.37	2.28E-02
36	ABCC3	1.20	5.15E-03	104	AGBL2	4.32	9.24E-05	172	AM773264	3.03	2.31E-02
37	ABCC8	1.20	1.34E-02	105	AGMAT	2.37	2.21E-02	173	AM773265	3.26	1.18E-02
38	ABCF3	2.07	5.70E-04	106	AGPAT3	7.07	2.50E-03	174	AM773266	2.46	5.30E-03
39	ABCG5	2.32	4.72E-03	107	AGR2	1.19	2.59E-02	175	AM773269	4.46	6.32E-03
40	ACAD10	1.48	5.45E-03	108	AGR3	6.35	7.74E-05	176	AM773270	5.30	6.50E-04
41	ACAN	2.50	2.03E-04	109	AGRP	1.68	1.27E-03	177	AM773271	5.44	7.53E-04
42	ACCN2	6.23	1.55E-03	110	AGT	4.92	6.57E-03	178	AM773275	2.49	2.25E-02
43	ACCN5	5.37	5.36E-03	111	AGTR1	4.49	3.90E-03	179	AM773278	3.44	6.78E-02
44	ACE	2.76	5.38E-02	112	AGTR2	2.81	6.97E-03	180	AMICA1	2.44	2.83E-03
45	ACE2	2.38	2.05E-02	113	AGXT	2.77	5.76E-02	181	AMMECR1	1.83	1.36E-02
46	ACER1	2.48	3.02E-02	114	AGXTL1	5.07	2.20E-04	182	AMN	5.45	1.43E-03
47	ACHE	2.25	9.55E-04	115	AHCYL2	1.97	1.41E-02	183	AMOTL1	5.57	1.00E-02
48	ACOT11	1.24	3.65E-03	116	AHNAK	4.57	9.51E-03	184	AMPD1	4.22	5.20E-03
49	ACSF3	2.70	1.92E-03	117	AHNAK2	5.03	1.01E-04	185	AMY2A	2.68	4.66E-03
50	ACSL5	2.57	1.42E-03	118	AHSG	1.95	2.25E-03	186	AMZ1	1.48	4.21E-02
51	ACSL6	4.99	2.43E-03	119	AIFM3	2.33	4.28E-02	187	ANG4	1.72	1.22E-01
52	ACSM3	1.22	7.19E-04	120	AIM1L	1.81	1.37E-01	188	ANGPT1	3.40	1.02E-02
53	ACSM5	1.60	4.15E-03	121	AIPL1	3.47	1.51E-03	189	ANGPTL4	5.44	1.53E-02
54	ACTBL2	5.30	1.21E-04	122	AIRE	4.78	7.42E-03	190	ANGPTL7	6.00	4.55E-04
55	ADAM11	4.90	7.52E-04	123	AJ002599	7.66	2.73E-03	191	ANKIB1	3.99	3.48E-02
56	ADAM12	5.23	2.18E-05	124	AJ002601	4.63	1.76E-03	192	ANKRD1	5.18	1.64E-03
57	ADAM19	5.63	6.51E-05	125	AJ392630	5.72	1.78E-03	193	ANKRD2	3.62	3.50E-04
58	ADAM22	1.40	4.84E-02	126	AJ395369	2.74	8.42E-03	194	ANKRD29	1.40	4.93E-03
59	ADAM28	2.02	2.38E-03	127	AJ396326	3.81	5.52E-03	195	ANKRD33	5.91	4.29E-04
60	ADAM33	3.46	1.43E-03	128	AJ397685	6.92	2.20E-05	196	ANKRD33B	3.66	4.14E-04
61	ADAMTS1	1.92	2.36E-03	129	AJ444710	5.10	8.77E-04	197	ANKRD34B	3.89	3.19E-03
62	ADAMTS10	5.99	6.73E-03	130	AJ447538	2.37	6.64E-02	198	ANKRD34C	4.66	3.03E-03
63	ADAMTS14	6.43	1.72E-04	131	AJ449198	4.19	1.41E-03	199	ANKRD43	2.64	5.01E-03
64	ADAMTS15	1.83	6.73E-03	132	AJ449718	1.57	3.49E-02	200	ANKRD52	1.86	2.23E-02
65	ADAMTS19	2.20	2.98E-02	133	AJ452752	3.69	5.44E-04	201	ANKS1A	2.65	6.82E-03
66	ADAMTS20	1.94	2.44E-02	134	AJ455130	2.55	3.21E-03	202	ANKS1B	1.26	1.04E-02
67	ADAMTS8	4.15	3.81E-03	135	AJ456143	1.22	4.39E-02	203	ANKS4B	5.37	1.81E-04

204	ANO1	2.88	1.22E-02	272	ASB13	3.97	6.27E-03	340	BEGAIN	8.02	5.28E-03
205	ANO6	3.83	1.87E-03	273	ASB18	6.60	1.07E-03	341	BEST1	2.71	5.81E-03
206	ANO8	2.97	3.83E-03	274	ASB2	4.74	3.10E-03	342	BEST3	1.79	5.86E-03
207	ANTXR1	5.21	9.03E-04	275	ASB4	3.08	3.29E-04	343	BEST4	3.21	3.11E-02
208	ANTXRL	2.10	8.46E-03	276	ASB9	4.74	8.97E-03	344	BF1	3.51	2.92E-02
209	ANXA1	3.06	6.38E-03	277	ASCL1	1.65	3.02E-02	345	BF2	4.55	1.30E-02
210	ANXA10	2.23	4.87E-02	278	ASCL2	5.92	5.47E-02	346	B-G	2.91	2.62E-02
211	ANXA6	1.30	5.04E-02	279	ASCL4	2.89	2.30E-02	347	BG2	3.17	9.06E-04
212	AOAH	2.52	1.28E-02	280	ASL2	2.88	3.72E-03	348	BG709695	4.20	3.59E-03
213	AP3M2	2.06	7.17E-03	281	ASMT	2.58	5.29E-03	349	BHLHA15	2.80	5.76E-03
214	AP4M1	1.31	7.89E-03	282	ASPHD2	3.33	4.80E-03	350	BHLHE40	2.43	2.62E-03
215	APAF1	2.10	2.23E-04	283	ASTL	2.99	1.09E-02	351	BI065499	2.60	6.48E-02
216	APBB1IP	2.36	6.04E-03	284	ASTN2	2.02	1.67E-02	352	BI066217	4.14	2.00E-03
217	APBB3	5.76	1.69E-03	285	ATF3	2.74	1.28E-03	353	BI066329	4.60	3.00E-03
218	APC2	2.86	2.43E-02	286	ATF7	2.89	1.59E-02	354	BIK	2.16	1.41E-02
219	APH1A	1.61	1.64E-02	287	ATG14	1.37	4.54E-02	355	BIRC7	1.10	4.46E-03
220	APLNR	1.85	2.62E-02	288	ATG2B	1.97	7.85E-03	356	BKJ	4.62	2.50E-04
221	APOA4	2.19	1.47E-02	289	ATHL1	2.25	7.12E-04	357	B-LA	2.49	3.67E-02
222	APOA5	1.78	1.41E-03	290	ATMIN	1.84	1.28E-02	358	BLB1	2.78	1.56E-02
223	APOB	3.66	9.56E-04	291	ATOH1	3.47	3.04E-02	359	BLK	3.13	1.73E-03
224	APOBEC2	2.49	3.24E-03	292	ATOH7	1.81	1.32E-02	360	BLNK	2.58	1.60E-03
225	APOD	4.01	6.04E-04	293	ATP13A2	3.25	1.30E-03	361	BLOC1S3	4.01	1.50E-03
226	APOLD1	4.60	5.15E-03	294	ATP13A3	2.72	1.53E-03	362	BMA1	1.47	1.50E-02
227	APOVLDLII	3.45	2.34E-04	295	ATP13A5	6.30	8.04E-04	363	B-MA2	2.81	2.25E-03
228	AQP12	2.94	4.17E-04	296	ATP2B4	1.39	3.76E-03	364	BMP1	1.44	5.86E-03
229	AQP2	5.24	3.01E-03	297	ATP6V0A4	1.30	1.57E-02	365	BMP15	3.93	3.14E-05
230	AQP3	4.19	7.71E-04	298	ATP6V0D2	2.79	2.81E-03	366	BMP3	1.37	1.62E-01
231	AQP4	4.69	1.74E-04	299	ATP7A	1.31	3.25E-03	367	BMP4	3.38	9.92E-04
232	AQP5	6.39	2.41E-03	300	ATP9A	3.76	4.93E-05	368	BMP5	4.45	3.33E-03
233	AQP8	1.77	3.71E-03	301	ATPBD4	1.15	2.56E-03	369	BMP7	3.48	2.56E-02
234	ARAP3	1.30	2.54E-03	302	ATRNL1	1.95	2.11E-02	370	BMPER	2.51	2.62E-03
235	ARC	4.84	4.87E-02	303	AUTS2	3.04	7.32E-04	371	BNC1	3.19	1.55E-03
236	AREGB	3.67	2.70E-03	304	AVPR1A	3.67	5.85E-03	372	BNC2	4.49	4.70E-04
237	ARHGAP1	2.00	4.10E-03	305	AVPR1B	5.45	1.33E-03	373	B-NK	4.89	2.84E-03
238	ARHGAP20	1.85	4.48E-06	306	AVPR2	4.16	4.72E-03	374	BOK	6.02	2.70E-04
239	ARHGAP22	1.44	3.50E-03	307	AVR2	1.71	3.30E-02	375	BPI	3.90	2.62E-03
240	ARHGAP24	1.47	1.05E-02	308	AW773267	3.48	1.39E-02	376	BPIFB8	3.84	1.72E-03
241	ARHGAP25	2.86	3.83E-04	309	AY046570	5.41	2.60E-03	377	BRF2	4.73	9.23E-03
242	ARHGAP28	2.93	2.03E-02	310	AY332744	5.46	6.06E-03	378	BRPF3	1.78	1.05E-02
243	ARHGAP40	1.91	2.13E-02	311	AY591907	3.22	7.48E-03	379	BR53	5.81	3.00E-04
244	ARHGEF11	2.84	1.49E-04	312	AY640311	4.57	1.17E-03	380	BRUNOL5	6.36	4.55E-03
245	ARHGEF33	4.18	1.29E-02	313	AY885261	2.67	1.22E-03	381	BSN	3.44	2.16E-04
246	ARHGEF37	2.31	7.49E-03	314	AY994087	2.20	4.37E-03	382	BSX	2.50	2.42E-02
247	ARHGEF38	2.52	2.49E-02	315	B3GALT1	3.90	7.68E-03	383	BTBD11	1.53	2.11E-02
248	ARHGEF4	1.85	1.02E-02	316	B3GALT5	2.84	2.01E-03	384	BTBD17	1.36	2.91E-02
249	ARHGEF6	2.26	4.05E-02	317	B3GAT1	4.37	1.11E-03	385	BTG2	3.18	4.81E-03
250	ARID1A	1.82	2.48E-02	318	B3GNT7	4.35	1.94E-03	386	BTIA	1.15	1.02E-02
251	ARID1B	2.81	3.15E-03	319	B3GNT9	3.91	1.29E-04	387	BTN1A1	2.32	1.61E-02
252	ARID5A	1.59	1.26E-02	320	B3GNTL1	1.63	8.62E-03	388	BTRC	1.58	3.06E-02
253	ARL10	1.48	3.01E-02	321	B4GALT5	3.10	5.08E-03	389	BU104496	2.04	3.32E-03
254	ARL11	4.29	1.79E-03	322	BAAT	1.19	3.24E-03	390	BU104907	5.53	1.47E-03
255	ARL16	3.76	5.84E-04	323	BACE1	2.57	9.34E-03	391	BU104967	4.53	2.35E-03
256	ARL2	1.85	1.24E-02	324	BAG5	2.78	1.70E-02	392	BU107712	1.51	1.54E-03
257	ARL4C	2.92	1.22E-02	325	BAHCC1	3.22	1.26E-03	393	BU108272	1.94	8.30E-03
258	ARL8A	4.81	7.28E-04	326	BAI2	6.20	2.19E-03	394	BU110607	2.63	1.21E-02
259	ARNTL2	2.31	3.23E-02	327	BAI3	1.74	2.35E-02	395	BU112156	2.52	4.33E-03
260	ARR3	5.41	8.73E-04	328	BAIAP2	5.02	8.33E-04	396	BU112196	1.49	1.61E-02
261	ARSA	3.12	2.00E-03	329	BARX2	3.70	2.02E-02	397	BU116348	1.73	2.08E-03
262	ARSD	2.24	3.36E-03	330	BATF	4.49	3.36E-03	398	BU117764	3.43	2.09E-02
263	ARSH	1.38	2.68E-02	331	BCDIN3D	1.31	1.65E-02	399	BU117855	2.11	8.01E-03
264	ARSI	5.72	2.06E-03	332	BCL11A	3.92	5.05E-03	400	BU119689	3.80	7.72E-03
265	ART1	2.16	2.30E-02	333	BCL11B	5.28	1.39E-03	401	BU120493	2.94	1.84E-04
266	ART4	6.99	3.81E-03	334	BCL2A1	3.08	5.73E-03	402	BU122542	4.35	5.29E-03
267	ART5	2.17	7.52E-03	335	BCL9	2.64	1.61E-02	403	BU123298	2.27	1.58E-03
268	ART7B	4.97	1.18E-03	336	BCL9L	1.71	1.07E-02	404	BU123609	2.69	1.07E-02
269	ARV1	1.28	2.38E-02	337	BDKRB1	3.90	1.93E-02	405	BU123685	2.94	3.46E-04
270	ASAH2	3.71	7.57E-03	338	BDKRB2	3.69	6.72E-04	406	BU123752	2.40	5.30E-02
271	ASB1	1.90	8.75E-03	339	BDNF	1.95	1.33E-02	407	BU124345	1.24	2.63E-03

408	BU124761	2.43	4.91E-03	476	BU308037	1.89	1.51E-02	544	BU444312	1.95	1.53E-04
409	BU125157	3.39	1.43E-03	477	BU310423	1.93	2.48E-03	545	BU447010	2.54	2.92E-02
410	BU131051	3.92	3.74E-03	478	BU312095	1.89	4.29E-02	546	BU448424	1.40	5.20E-03
411	BU131321	3.84	2.06E-04	479	BU315004	2.67	4.62E-02	547	BU450216	1.56	4.22E-02
412	BU132303	2.65	1.08E-02	480	BU315457	1.69	3.37E-02	548	BU453976	1.66	7.37E-03
413	BU134784	4.92	1.16E-02	481	BU316204	1.30	9.10E-04	549	BU454962	3.03	6.22E-04
414	BU135594	2.08	1.27E-02	482	BU316679	3.09	1.60E-02	550	BU455514	7.25	5.37E-04
415	BU138204	2.99	5.73E-03	483	BU317892	1.27	2.24E-04	551	BU455976	3.07	2.08E-03
416	BU141905	4.55	7.04E-03	484	BU318920	1.30	1.78E-02	552	BU456537	4.24	2.33E-03
417	BU144237	1.26	2.88E-03	485	BU319628	3.51	5.59E-04	553	BU458939	4.90	4.88E-04
418	BU144418	1.59	1.85E-02	486	BU324978	3.13	2.16E-02	554	BU459921	2.22	6.59E-03
419	BU200094	3.45	2.81E-04	487	BU326672	1.75	7.65E-03	555	BU461005	6.62	4.16E-04
420	BU201425	1.42	4.96E-02	488	BU326817	2.85	1.27E-03	556	BU461157	4.32	1.06E-02
421	BU201899	4.46	2.54E-03	489	BU326944	3.06	6.57E-02	557	BU461339	5.28	5.70E-03
422	BU203936	4.72	2.39E-03	490	BU327801	2.15	1.43E-02	558	BU462383	3.30	8.98E-03
423	BU206349	4.14	2.53E-03	491	BU328025	3.14	1.56E-03	559	BU462443	2.38	5.50E-03
424	BU208007	3.89	9.36E-03	492	BU329695	2.24	6.49E-02	560	BU462843	3.64	1.19E-03
425	BU216519	4.32	1.30E-03	493	BU335749	4.23	6.54E-03	561	BU462933	1.64	6.65E-03
426	BU216729	1.19	2.97E-03	494	BU336605	2.36	8.65E-02	562	BU463196	2.72	8.63E-03
427	BU217250	1.47	3.36E-02	495	BU340614	2.51	2.53E-05	563	BU463320	1.46	2.56E-02
428	BU218651	2.21	2.76E-03	496	BU340657	1.97	8.16E-03	564	BU464939	1.76	3.06E-02
429	BU218730	2.98	1.18E-03	497	BU344626	1.72	4.12E-02	565	BU467863	7.21	9.05E-04
430	BU222413	1.39	3.61E-02	498	BU347949	5.34	2.09E-03	566	BU468825	1.44	1.35E-02
431	BU225747	3.02	2.25E-03	499	BU350064	4.27	1.39E-02	567	BU468854	2.88	6.49E-03
432	BU227140	3.80	5.04E-02	500	BU350714	1.10	1.46E-03	568	BU469805	4.68	1.58E-03
433	BU228965	1.30	1.77E-02	501	BU353109	2.09	1.78E-02	569	BU470522	4.66	8.41E-03
434	BU231018	1.44	2.42E-02	502	BU354922	3.75	2.49E-02	570	BU473004	2.29	5.48E-02
435	BU231446	5.91	2.34E-03	503	BU356078	4.88	7.09E-04	571	BU482205	1.79	2.17E-02
436	BU233544	4.18	1.15E-02	504	BU359585	1.43	1.48E-02	572	BU485799	6.91	3.89E-03
437	BU233706	1.62	7.95E-03	505	BU364686	2.52	9.04E-03	573	BU486057	2.25	2.11E-03
438	BU233812	3.85	2.54E-03	506	BU364817	6.51	1.73E-03	574	BU257537	5.41	8.83E-04
439	BU240107	2.14	5.31E-02	507	BU365339	2.87	4.42E-02	575	BX258330	4.39	2.07E-03
440	BU240738	4.59	1.69E-03	508	BU365462	1.81	6.01E-03	576	BX258816	4.17	7.08E-04
441	BU241776	2.91	1.70E-02	509	BU365573	3.05	2.72E-04	577	BX260390	4.61	1.34E-03
442	BU247163	3.23	2.28E-03	510	BU367801	1.47	7.39E-03	578	BX260400	2.70	1.03E-02
443	BU247582	2.77	1.16E-03	511	BU372304	1.48	1.59E-02	579	BX260631	6.80	2.29E-03
444	BU250077	5.19	7.12E-03	512	BU373338	3.76	5.62E-03	580	BX261457	3.05	1.30E-03
445	BU250980	3.51	9.46E-03	513	BU374316	2.45	9.24E-03	581	BX261858	4.25	2.46E-04
446	BU252373	1.24	1.90E-02	514	BU375915	2.61	2.18E-03	582	BX262098	2.94	1.64E-02
447	BU253273	1.99	1.65E-03	515	BU377450	3.19	1.40E-02	583	BX262726	2.39	1.54E-02
448	BU256099	2.27	5.79E-03	516	BU380356	9.45	4.16E-05	584	BX263536	7.01	8.30E-04
449	BU257729	4.12	2.32E-04	517	BU380534	4.82	6.35E-04	585	BX263618	3.01	4.61E-02
450	BU263572	4.76	4.63E-03	518	BU381671	1.70	1.71E-02	586	BX268607	1.66	2.19E-02
451	BU264482	2.63	7.54E-04	519	BU382710	5.71	7.34E-04	587	BX271739	2.47	6.03E-03
452	BU270017	2.30	3.98E-03	520	BU384146	2.30	3.83E-03	588	BX273250	4.41	4.11E-02
453	BU272111	3.02	4.21E-04	521	BU384182	2.12	2.67E-03	589	BX273552	7.62	2.48E-03
454	BU273151	1.62	1.09E-02	522	BU384771	2.14	7.40E-04	590	BX274565	5.36	5.05E-03
455	BU273897	5.17	7.60E-03	523	BU385860	5.26	9.07E-03	591	BX275584	1.51	3.36E-03
456	BU274011	4.00	1.15E-02	524	BU387323	8.10	3.63E-05	592	BX276285	1.44	2.72E-03
457	BU274445	2.93	7.66E-04	525	BU387623	4.18	3.61E-04	593	BX276404	2.66	4.12E-04
458	BU274619	2.99	2.87E-03	526	BU388091	3.30	2.66E-03	594	BX277627	2.40	4.37E-04
459	BU274821	5.50	7.77E-04	527	BU393019	5.47	6.50E-04	595	BX278186	1.49	8.70E-03
460	BU277984	2.00	1.11E-01	528	BU398913	1.29	1.19E-01	596	BX929271	3.56	4.38E-04
461	BU281570	2.00	2.31E-03	529	BU401146	2.24	1.44E-02	597	BX929283	1.31	1.09E-02
462	BU281863	3.24	2.13E-03	530	BU404556	1.42	5.99E-02	598	BX929311	4.91	3.77E-04
463	BU282632	2.61	1.75E-03	531	BU406302	1.23	1.35E-02	599	BX929324	3.56	4.61E-05
464	BU282887	2.83	1.46E-03	532	BU410749	4.48	6.67E-03	600	BX929334	2.01	1.45E-03
465	BU284480	2.97	1.10E-03	533	BU410899	1.18	7.76E-02	601	BX929335	4.21	9.74E-03
466	BU284885	2.71	8.43E-03	534	BU412532	2.64	9.28E-03	602	BX929396	5.57	2.86E-03
467	BU285976	4.37	6.25E-03	535	BU412664	6.07	5.83E-03	603	BX929413	2.73	3.50E-03
468	BU285991	3.36	8.52E-03	536	BU417032	3.83	2.42E-02	604	BX929425	4.91	9.13E-02
469	BU288827	2.32	1.17E-03	537	BU424807	1.55	1.79E-02	605	BX929487	1.15	1.67E-04
470	BU291924	4.36	5.50E-04	538	BU424835	1.66	1.53E-03	606	BX929500	1.78	7.70E-03
471	BU291956	2.66	2.89E-02	539	BU424935	5.79	5.47E-04	607	BX929501	5.25	4.25E-03
472	BU295709	4.24	3.66E-03	540	BU425927	3.33	6.19E-03	608	BX929504	4.09	4.53E-03
473	BU300822	1.91	3.34E-03	541	BU426884	2.04	1.44E-02	609	BX929507	4.51	1.20E-03
474	BU302836	3.21	2.22E-04	542	BU435651	2.67	7.01E-03	610	BX929516	1.79	2.47E-02
475	BU302898	1.58	1.75E-03	543	BU437509	3.13	5.74E-03	611	BX929538	3.06	7.47E-04

612	BX929585	4.63	1.76E-02	680	BX930588	5.52	8.94E-04	748	BX931575	2.87	1.84E-02
613	BX929597	4.44	1.11E-03	681	BX930600	2.23	2.66E-04	749	BX931614	2.19	2.67E-02
614	BX929609	2.84	1.59E-02	682	BX930614	7.33	2.41E-04	750	BX931627	5.67	5.80E-05
615	BX929612	5.30	1.55E-04	683	BX930625	3.80	1.16E-02	751	BX931669	4.43	5.57E-04
616	BX929614	3.21	1.89E-02	684	BX930633	1.32	2.22E-02	752	BX931693	4.99	8.32E-03
617	BX929655	4.32	9.45E-03	685	BX930645	4.85	1.19E-03	753	BX931732	2.12	4.01E-02
618	BX929656	1.42	1.83E-02	686	BX930695	3.07	2.32E-03	754	BX931761	1.44	6.04E-02
619	BX929671	1.80	3.59E-03	687	BX930737	1.78	2.22E-02	755	BX931773	4.02	4.34E-03
620	BX929680	1.56	4.96E-02	688	BX930812	4.31	1.63E-03	756	BX931785	3.59	1.48E-02
621	BX929693	5.47	7.46E-04	689	BX930854	2.95	3.31E-02	757	BX931787	5.06	2.42E-04
622	BX929695	1.06	7.21E-03	690	BX930875	4.95	1.76E-03	758	BX931794	4.23	4.48E-03
623	BX929711	3.55	2.59E-04	691	BX930894	4.78	3.76E-03	759	BX931799	5.45	7.59E-05
624	BX929718	2.37	1.86E-02	692	BX930903	1.26	2.98E-03	760	BX931805	1.35	2.22E-02
625	BX929759	4.33	6.26E-04	693	BX930936	3.53	9.89E-04	761	BX931815	2.21	4.42E-03
626	BX929781	3.54	8.64E-05	694	BX930969	3.74	3.42E-04	762	BX931821	1.48	1.45E-02
627	BX929785	2.59	2.06E-03	695	BX931015	6.75	6.84E-06	763	BX931825	1.74	1.88E-02
628	BX929796	2.76	5.74E-03	696	BX931019	3.95	5.65E-03	764	BX931881	4.68	3.15E-03
629	BX929817	4.96	1.13E-03	697	BX931020	2.84	5.71E-02	765	BX931955	2.45	2.93E-02
630	BX929834	2.11	2.27E-03	698	BX931022	4.25	2.01E-03	766	BX931956	2.88	4.86E-04
631	BX929837	5.17	8.20E-03	699	BX931029	5.04	1.21E-02	767	BX931960	4.31	3.49E-03
632	BX929879	1.44	6.25E-02	700	BX931032	4.82	4.35E-03	768	BX931966	1.37	3.30E-02
633	BX929912	5.39	2.43E-05	701	BX931034	3.18	2.07E-03	769	BX931974	3.31	6.30E-02
634	BX929928	1.48	1.60E-02	702	BX931035	4.28	7.82E-03	770	BX931980	5.10	1.57E-02
635	BX929956	1.68	1.03E-02	703	BX931038	3.19	6.80E-03	771	BX932007	1.79	2.40E-03
636	BX930016	3.45	4.89E-04	704	BX931053	4.96	4.74E-03	772	BX932018	3.29	1.87E-02
637	BX930030	4.33	1.49E-03	705	BX931075	2.97	1.03E-02	773	BX932021	1.48	3.44E-02
638	BX930045	6.59	2.97E-03	706	BX931080	4.26	2.10E-03	774	BX932023	5.77	1.89E-05
639	BX930062	3.17	9.49E-03	707	BX931081	4.05	7.67E-03	775	BX932031	4.89	2.24E-03
640	BX930066	1.23	2.58E-03	708	BX931082	2.25	8.04E-03	776	BX932037	2.10	1.98E-02
641	BX930072	4.41	4.66E-02	709	BX931093	5.18	5.46E-04	777	BX932127	2.73	2.94E-02
642	BX930091	7.01	3.06E-03	710	BX931097	1.11	4.95E-03	778	BX932131	2.78	9.02E-03
643	BX930128	3.59	7.11E-03	711	BX931102	1.27	2.80E-02	779	BX932134	2.97	1.39E-02
644	BX930132	1.34	4.33E-02	712	BX931104	6.40	4.39E-04	780	BX932141	1.65	6.95E-02
645	BX930163	5.63	1.67E-03	713	BX931114	5.60	5.46E-03	781	BX932152	3.20	1.34E-03
646	BX930176	5.97	4.24E-03	714	BX931124	2.82	1.21E-02	782	BX932156	1.61	1.54E-03
647	BX930202	6.47	3.59E-04	715	BX931126	4.70	1.27E-02	783	BX932171	3.94	2.16E-04
648	BX930204	2.69	2.37E-02	716	BX931127	4.45	1.33E-02	784	BX932173	1.10	2.79E-03
649	BX930205	2.20	1.78E-03	717	BX931134	3.71	9.76E-03	785	BX932237	5.13	2.68E-03
650	BX930207	1.36	1.81E-03	718	BX931135	6.74	1.84E-03	786	BX932257	2.30	2.01E-03
651	BX930211	2.80	1.67E-02	719	BX931178	5.40	2.62E-03	787	BX932294	1.75	5.22E-04
652	BX930227	8.56	1.67E-03	720	BX931209	4.00	8.15E-03	788	BX932304	5.38	2.13E-03
653	BX930235	1.19	8.08E-03	721	BX931211	4.04	1.83E-03	789	BX932362	4.93	5.47E-04
654	BX930246	3.23	2.59E-03	722	BX931212	2.09	3.41E-03	790	BX932369	1.94	3.54E-02
655	BX930274	6.67	5.80E-03	723	BX931221	3.96	9.72E-03	791	BX932377	3.30	9.72E-03
656	BX930296	1.83	8.49E-03	724	BX931225	2.92	1.00E-03	792	BX932380	1.09	3.09E-03
657	BX930306	2.32	4.27E-03	725	BX931226	6.72	2.52E-03	793	BX932401	1.75	4.77E-02
658	BX930316	3.15	1.74E-04	726	BX931232	8.37	1.45E-02	794	BX932417	1.18	1.68E-02
659	BX930317	4.75	2.74E-04	727	BX931267	1.10	5.32E-02	795	BX932450	1.48	5.76E-02
660	BX930327	5.05	8.35E-04	728	BX931268	1.54	5.15E-02	796	BX932465	2.62	8.61E-03
661	BX930364	2.29	1.77E-01	729	BX931269	2.02	8.52E-03	797	BX932474	4.63	4.70E-03
662	BX930365	3.83	2.44E-03	730	BX931283	3.50	3.47E-03	798	BX932482	2.86	3.57E-03
663	BX930383	6.72	3.69E-03	731	BX931295	2.83	3.40E-02	799	BX932494	1.37	1.85E-03
664	BX930393	2.26	1.18E-02	732	BX931327	2.25	8.60E-02	800	BX932515	1.72	2.64E-02
665	BX930414	4.75	8.37E-05	733	BX931346	2.98	2.34E-03	801	BX932535	4.65	6.94E-03
666	BX930420	1.71	2.83E-03	734	BX931349	1.45	4.11E-02	802	BX932558	2.15	3.22E-02
667	BX930432	5.18	2.34E-02	735	BX931365	2.88	2.26E-02	803	BX932567	3.72	3.11E-03
668	BX930433	3.49	6.79E-03	736	BX931377	3.05	1.73E-02	804	BX932573	1.79	1.56E-03
669	BX930447	2.13	4.20E-03	737	BX931426	2.32	1.78E-02	805	BX932593	4.79	8.39E-03
670	BX930450	5.49	5.66E-03	738	BX931439	3.02	4.95E-02	806	BX932609	5.30	1.24E-02
671	BX930478	1.13	3.35E-02	739	BX931466	6.31	8.74E-03	807	BX932640	6.08	1.73E-03
672	BX930479	5.09	3.12E-03	740	BX931476	1.24	8.79E-02	808	BX932669	2.54	5.05E-03
673	BX930482	2.83	2.12E-02	741	BX931491	2.35	1.73E-02	809	BX932677	1.58	1.83E-02
674	BX930526	4.47	1.12E-01	742	BX931506	1.98	8.15E-03	810	BX932691	7.93	4.16E-03
675	BX930530	6.19	1.27E-02	743	BX931526	5.09	2.24E-03	811	BX932705	5.34	1.63E-02
676	BX930553	3.34	8.24E-05	744	BX931534	1.37	5.44E-02	812	BX932743	2.60	8.07E-04
677	BX930571	3.86	4.19E-04	745	BX931546	2.91	1.26E-02	813	BX932770	2.72	3.74E-04
678	BX930572	5.96	1.59E-03	746	BX931553	1.71	3.81E-03	814	BX932771	1.22	5.68E-03
679	BX930578	3.07	1.25E-02	747	BX931555	2.91	3.91E-04	815	BX932778	4.43	1.98E-02

816	BX932784	2.35	2.78E-03	884	BX933494	1.50	3.50E-02	952	BX934301	2.86	3.93E-03
817	BX932787	6.26	5.32E-05	885	BX933496	2.29	1.23E-02	953	BX934310	2.00	3.14E-03
818	BX932806	3.08	7.15E-04	886	BX933498	5.30	5.84E-03	954	BX934334	1.51	8.63E-03
819	BX932807	3.50	3.00E-03	887	BX933512	1.77	3.80E-02	955	BX934354	4.77	2.72E-02
820	BX932812	1.25	5.64E-02	888	BX933518	3.46	1.70E-03	956	BX934355	4.23	6.74E-03
821	BX932818	4.74	6.42E-04	889	BX933522	1.57	2.34E-03	957	BX934357	4.98	3.42E-04
822	BX932820	2.93	3.69E-04	890	BX933526	5.84	3.69E-04	958	BX934359	1.63	1.49E-02
823	BX932826	4.81	9.43E-05	891	BX933527	2.35	6.34E-02	959	BX934380	2.41	3.76E-02
824	BX932833	4.54	4.02E-03	892	BX933539	5.01	2.94E-03	960	BX934383	3.81	4.78E-03
825	BX932838	4.59	3.33E-03	893	BX933541	4.95	3.91E-03	961	BX934385	3.67	6.57E-04
826	BX932843	5.35	6.04E-03	894	BX933548	2.60	1.89E-02	962	BX934386	5.66	4.76E-03
827	BX932851	4.42	1.56E-03	895	BX933556	2.14	7.17E-03	963	BX934396	3.99	5.70E-03
828	BX932868	1.26	3.46E-02	896	BX933560	3.86	6.74E-03	964	BX934401	1.58	1.86E-02
829	BX932870	4.60	3.40E-03	897	BX933562	4.87	1.14E-03	965	BX934412	5.07	1.03E-02
830	BX932872	2.72	2.26E-02	898	BX933586	5.72	3.39E-03	966	BX934436	4.09	4.42E-06
831	BX932881	3.44	1.38E-02	899	BX933661	2.54	8.53E-05	967	BX934437	4.32	1.41E-03
832	BX932891	3.06	2.02E-03	900	BX933682	2.13	3.27E-03	968	BX934455	2.52	4.32E-04
833	BX932900	4.11	2.47E-03	901	BX933694	7.97	1.81E-03	969	BX934474	3.50	1.22E-02
834	BX932958	1.85	4.07E-02	902	BX933696	2.78	5.43E-02	970	BX934508	2.60	3.62E-03
835	BX932966	1.23	1.46E-02	903	BX933706	1.35	6.55E-03	971	BX934529	3.16	1.29E-02
836	BX932978	4.40	6.07E-03	904	BX933711	2.37	9.53E-03	972	BX934539	2.16	3.97E-03
837	BX933013	1.50	5.55E-02	905	BX933714	1.53	5.97E-02	973	BX934546	1.45	4.79E-03
838	BX933037	1.60	8.45E-03	906	BX933716	2.48	4.15E-02	974	BX934571	2.11	9.15E-02
839	BX933043	4.55	4.94E-04	907	BX933759	3.45	7.76E-03	975	BX934636	4.19	2.15E-03
840	BX933049	1.59	3.91E-02	908	BX933770	1.89	1.07E-03	976	BX934640	1.48	9.02E-02
841	BX933051	3.40	7.04E-04	909	BX933782	3.34	1.02E-02	977	BX934641	11.04	7.35E-04
842	BX933057	4.72	2.47E-05	910	BX933785	3.18	4.68E-04	978	BX934663	2.94	3.27E-03
843	BX933078	4.07	4.39E-03	911	BX933803	5.34	3.72E-02	979	BX934692	3.99	2.11E-03
844	BX933086	2.65	1.38E-03	912	BX933808	2.17	6.32E-02	980	BX934695	2.41	3.09E-03
845	BX933113	4.71	2.30E-03	913	BX933810	4.13	1.60E-02	981	BX934696	4.73	6.94E-03
846	BX933120	2.81	6.99E-02	914	BX933816	5.65	3.32E-03	982	BX934701	5.74	2.31E-03
847	BX933177	4.30	7.70E-04	915	BX933836	3.12	1.04E-03	983	BX934722	6.57	6.06E-03
848	BX933194	3.15	3.76E-04	916	BX933839	3.75	3.09E-03	984	BX934726	5.50	2.24E-03
849	BX933205	3.48	2.53E-03	917	BX933845	4.53	4.65E-02	985	BX934740	3.16	4.64E-04
850	BX933209	3.95	3.56E-03	918	BX933854	3.11	2.69E-03	986	BX934741	6.52	4.60E-03
851	BX933210	6.46	1.26E-03	919	BX933860	3.66	5.65E-03	987	BX934756	2.00	5.49E-03
852	BX933257	2.61	4.04E-03	920	BX933871	4.16	5.31E-03	988	BX934773	2.99	2.30E-03
853	BX933258	2.37	2.09E-02	921	BX933874	4.72	8.24E-03	989	BX934780	4.64	5.34E-03
854	BX933275	4.28	1.81E-03	922	BX933879	2.95	1.06E-02	990	BX934783	2.75	1.76E-02
855	BX933287	3.50	1.64E-04	923	BX933898	3.44	8.43E-02	991	BX934791	3.65	3.47E-02
856	BX933288	2.92	2.65E-03	924	BX933908	5.01	1.28E-03	992	BX934809	2.55	5.96E-03
857	BX933289	5.49	1.50E-04	925	BX933936	4.89	7.49E-03	993	BX934820	1.24	1.06E-01
858	BX933291	4.51	3.71E-05	926	BX933965	2.87	2.33E-03	994	BX934821	2.23	4.23E-03
859	BX933295	5.65	1.66E-02	927	BX934018	1.70	2.79E-02	995	BX934830	4.21	5.86E-04
860	BX933296	3.43	1.31E-03	928	BX934067	1.35	8.63E-03	996	BX934835	2.40	4.68E-02
861	BX933299	2.53	1.63E-02	929	BX934084	3.43	5.03E-03	997	BX934842	1.98	2.32E-02
862	BX933302	2.64	2.60E-05	930	BX934096	3.83	3.42E-03	998	BX934845	6.55	2.84E-03
863	BX933311	6.59	2.75E-02	931	BX934101	1.23	1.19E-02	999	BX934855	4.58	6.28E-03
864	BX933312	5.98	1.32E-03	932	BX934110	1.24	2.61E-02	1000	BX934865	2.01	3.93E-03
865	BX933317	4.37	4.15E-03	933	BX934130	5.88	4.76E-04	1001	BX934870	3.26	1.34E-03
866	BX933320	3.75	1.01E-03	934	BX934140	2.11	2.83E-02	1002	BX934898	3.70	2.54E-02
867	BX933321	3.36	1.20E-02	935	BX934141	9.67	9.35E-04	1003	BX934903	1.00	1.38E-02
868	BX933322	3.61	8.45E-03	936	BX934157	2.98	2.25E-03	1004	BX934985	2.22	6.80E-04
869	BX933326	7.52	7.83E-04	937	BX934160	2.57	1.13E-03	1005	BX934995	3.99	8.57E-03
870	BX933335	2.26	4.90E-03	938	BX934176	3.60	4.03E-04	1006	BX934996	1.76	1.58E-02
871	BX933356	1.95	5.00E-03	939	BX934179	2.97	7.14E-03	1007	BX935007	2.73	5.53E-02
872	BX933362	2.03	4.59E-03	940	BX934181	2.45	5.86E-03	1008	BX935012	3.32	8.63E-03
873	BX933363	3.77	1.30E-02	941	BX934183	1.51	2.27E-02	1009	BX935018	4.85	7.07E-03
874	BX933381	6.37	3.63E-04	942	BX934193	4.00	7.06E-04	1010	BX935028	4.09	1.23E-03
875	BX933386	4.42	2.26E-03	943	BX934202	3.48	7.76E-02	1011	BX935060	1.28	5.65E-02
876	BX933394	3.61	1.42E-02	944	BX934213	3.26	1.10E-02	1012	BX935083	4.10	2.81E-03
877	BX933401	5.03	1.73E-02	945	BX934223	5.69	9.18E-04	1013	BX935087	3.66	5.31E-03
878	BX933451	7.21	4.80E-04	946	BX934228	2.81	8.00E-03	1014	BX935127	2.73	3.26E-03
879	BX933460	4.73	5.35E-03	947	BX934248	6.62	8.27E-04	1015	BX935172	5.74	1.67E-02
880	BX933467	3.69	1.70E-02	948	BX934251	4.56	2.32E-04	1016	BX935178	3.49	2.17E-02
881	BX933471	4.04	1.71E-02	949	BX934268	4.16	1.85E-03	1017	BX935194	2.77	2.64E-03
882	BX933472	3.33	1.58E-03	950	BX934275	3.48	2.20E-03	1018	BX935197	4.02	2.10E-02
883	BX933485	2.58	7.15E-02	951	BX934285	3.25	1.32E-02	1019	BX935202	3.21	6.16E-03

1020	BX935224	3.56	1.35E-02	1088	BX950249	5.92	1.21E-04	1156	C17H9orf140	3.17	2.52E-03
1021	BX935250	6.33	4.36E-04	1089	BX950250	1.98	2.85E-03	1157	C17H9orf167	4.93	7.66E-03
1022	BX935277	3.71	1.69E-02	1090	BX950256	2.88	4.69E-03	1158	C17H9orf91	1.21	1.28E-02
1023	BX935293	7.04	4.21E-02	1091	BX950264	7.36	4.09E-03	1159	C18H17orf28	2.56	2.80E-03
1024	BX935356	1.21	2.33E-02	1092	BX950265	2.03	4.83E-02	1160	C1H11orf87	2.71	3.87E-03
1025	BX935362	3.60	6.31E-03	1093	BX950272	4.45	6.56E-03	1161	C1H12orf28	2.12	1.67E-04
1026	BX935383	1.30	1.46E-02	1094	BX950306	4.51	2.54E-03	1162	C1H12orf69	5.64	1.44E-03
1027	BX935414	2.35	8.16E-03	1095	BX950310	2.56	2.58E-02	1163	C1H21orf62	3.84	2.47E-03
1028	BX935422	5.16	2.35E-03	1096	BX950352	1.40	9.85E-04	1164	C1H21orf63	1.59	2.10E-02
1029	BX935439	1.71	4.27E-02	1097	BX950357	1.39	9.13E-03	1165	C1H7orf53	3.58	1.43E-03
1030	BX935443	4.98	3.01E-03	1098	BX950365	3.40	9.48E-03	1166	C1HXorf36	1.77	1.17E-02
1031	BX935458	5.49	1.21E-03	1099	BX950370	2.76	2.32E-02	1167	C1QA	1.63	3.81E-02
1032	BX935462	5.74	1.52E-02	1100	BX950377	2.53	1.74E-01	1168	C1QL2	3.15	6.42E-03
1033	BX935471	7.84	3.64E-04	1101	BX950390	3.17	1.48E-01	1169	C1QL4	2.15	1.46E-02
1034	BX935513	1.82	9.48E-02	1102	BX950405	2.14	2.08E-03	1170	C1QTNF1	3.13	3.82E-02
1035	BX935525	4.83	2.22E-03	1103	BX950448	3.53	6.98E-03	1171	C1QTNF3	1.95	2.79E-03
1036	BX935533	2.95	2.44E-03	1104	BX950459	3.20	5.53E-02	1172	C1QTNF5	3.18	1.79E-03
1037	BX935559	3.20	2.21E-02	1105	BX950463	2.34	1.55E-01	1173	C1QTNF6	6.00	1.33E-03
1038	BX935570	3.74	1.48E-03	1106	BX950484	4.23	4.64E-03	1174	C1QTNF8	5.97	9.92E-03
1039	BX935607	4.31	8.71E-04	1107	BX950492	3.40	8.38E-04	1175	C1QTNF9	5.40	5.35E-04
1040	BX935626	1.62	5.76E-03	1108	BX950495	1.30	3.46E-02	1176	C20H20orf123	6.30	2.99E-05
1041	BX935643	1.72	2.24E-02	1109	BX950500	2.15	1.61E-03	1177	C20H20orf151	3.50	2.33E-03
1042	BX935646	2.77	5.08E-03	1110	BX950512	2.72	1.51E-02	1178	C20H20orf160	3.86	1.48E-03
1043	BX935652	4.13	6.38E-04	1111	BX950525	3.11	2.14E-04	1179	C21H1orf70	6.00	3.15E-03
1044	BX935653	4.07	2.26E-04	1112	BX950533	5.24	7.55E-04	1180	C22H2orf42	1.63	3.22E-02
1045	BX935658	3.25	1.02E-03	1113	BX950541	1.70	3.84E-03	1181	C23H1orf216	4.75	1.56E-03
1046	BX935659	4.28	1.99E-03	1114	BX950549	5.02	4.47E-03	1182	C26H1orf116	3.48	1.71E-03
1047	BX935661	2.16	2.17E-02	1115	BX950553	5.29	6.87E-03	1183	C26H1orf183	3.77	1.11E-03
1048	BX935667	6.64	6.47E-05	1116	BX950572	2.96	6.89E-03	1184	C2CD2L	2.13	1.80E-02
1049	BX935672	3.27	5.89E-03	1117	BX950576	1.88	8.99E-04	1185	C2CD4C	5.19	3.48E-03
1050	BX935677	1.87	2.64E-02	1118	BX950595	6.24	6.80E-04	1186	C2H10orf112	1.33	5.33E-02
1051	BX935692	3.47	1.75E-03	1119	BX950596	7.62	2.24E-05	1187	C2H18orf63	3.27	7.61E-04
1052	BX935706	3.43	9.88E-03	1120	BX950608	2.90	9.44E-04	1188	C2H6orf105	5.24	6.48E-03
1053	BX935715	3.07	6.28E-03	1121	BX950609	2.07	2.92E-03	1189	C2H8orf22	2.89	5.62E-03
1054	BX935717	2.16	1.60E-02	1122	BX950618	3.31	9.61E-04	1190	C2H8orf34	1.79	1.81E-02
1055	BX935720	2.27	2.25E-02	1123	BX950623	3.57	2.16E-03	1191	C2H9orf152	6.73	3.33E-02
1056	BX935721	5.95	1.02E-03	1124	BX950650	1.30	8.95E-02	1192	C3	2.38	2.10E-03
1057	BX935723	3.93	1.05E-03	1125	BX950652	2.89	8.31E-03	1193	C3AR1	2.83	3.37E-03
1058	BX935743	4.73	7.67E-05	1126	BX950658	1.46	9.41E-03	1194	C3H1orf115	1.14	3.93E-02
1059	BX935758	4.26	1.29E-03	1127	BX950660	3.84	3.89E-02	1195	C3H1orf95	5.09	6.08E-03
1060	BX935766	2.94	1.68E-02	1128	BX950686	1.14	2.28E-02	1196	C3H20orf103	1.14	1.34E-03
1061	BX935945	5.37	1.36E-04	1129	BX950697	1.76	7.59E-02	1197	C3H2orf71	1.89	5.25E-03
1062	BX935982	7.32	1.69E-03	1130	BX950706	2.61	2.96E-03	1198	C3H6orf168	1.82	1.81E-02
1063	BX935985	2.84	5.00E-03	1131	BX950708	2.34	2.57E-03	1199	C3H6orf191	7.49	8.69E-05
1064	BX935988	6.42	1.91E-03	1132	BX950709	6.20	1.40E-02	1200	C4H4orf19	4.88	2.95E-03
1065	BX935994	4.38	3.72E-02	1133	BX950720	4.07	2.68E-03	1201	C5AR1	2.46	2.36E-03
1066	BX935999	2.19	2.54E-03	1134	BX950727	1.11	1.01E-02	1202	C5H11orf16	5.28	4.52E-02
1067	BX936014	1.56	1.42E-01	1135	BX950740	4.61	4.16E-03	1203	C5H11orf24	2.96	5.83E-04
1068	BX936024	2.75	9.93E-04	1136	BX950756	2.25	4.21E-02	1204	C5H11orf41	1.81	2.38E-02
1069	BX936025	3.48	9.35E-03	1137	BX950767	1.34	1.19E-02	1205	C5H14orf159	2.41	1.07E-02
1070	BX936055	1.67	3.86E-02	1138	BX950775	2.87	3.45E-02	1206	C5H14orf37	1.79	1.03E-02
1071	BX936071	4.43	3.75E-02	1139	BX950786	3.61	3.45E-04	1207	C5H15orf52	2.57	6.33E-03
1072	BX936110	2.55	1.10E-02	1140	BX950787	3.40	3.50E-03	1208	C6	6.33	3.97E-03
1073	BX936132	4.08	3.04E-03	1141	BX950795	4.37	2.56E-03	1209	C6H10orf11	2.59	3.98E-02
1074	BX936137	5.34	2.16E-03	1142	BX950798	1.67	2.41E-02	1210	C6H10orf2	3.76	4.81E-05
1075	BX936155	4.44	1.80E-03	1143	BX950817	2.64	5.10E-03	1211	C6H10orf26	2.40	5.35E-03
1076	BX936174	6.10	6.43E-04	1144	BX950830	3.04	1.24E-03	1212	C6H10orf28	1.34	1.38E-02
1077	BX936192	3.63	5.60E-03	1145	BX950831	5.09	1.39E-03	1213	C6H10orf54	3.58	1.81E-03
1078	BX936231	4.34	4.76E-03	1146	BX950832	8.00	1.16E-03	1214	C6H10orf71	3.82	6.57E-03
1079	BX936249	2.50	8.70E-04	1147	BX950836	4.91	7.94E-04	1215	C8A	5.72	2.77E-03
1080	BX936259	5.08	3.00E-05	1148	BX950837	5.44	7.12E-03	1216	C8H1orf168	3.00	3.60E-03
1081	BX950231	5.43	2.03E-03	1149	BX950840	1.85	5.99E-03	1217	C8H1orf190	1.43	1.85E-02
1082	BX950233	2.26	1.83E-02	1150	BX950847	2.24	6.62E-02	1218	C9H2orf54	5.06	2.47E-03
1083	BX950237	5.12	5.42E-03	1151	BX950849	2.17	2.55E-02	1219	C9H3orf58	1.96	2.49E-03
1084	BX950239	3.93	2.38E-03	1152	C10H15orf59	4.22	1.20E-02	1220	CA10	2.97	6.07E-03
1085	BX950240	2.75	1.85E-02	1153	C14H16orf45	1.87	1.52E-02	1221	CA12	5.39	2.69E-03
1086	BX950242	4.08	4.15E-03	1154	C14H16orf79	1.31	9.15E-03	1222	CA4	3.21	9.59E-03
1087	BX950243	2.33	1.38E-03	1155	C14H7orf26	1.84	2.10E-02	1223	CA5B	1.83	1.61E-01

1224	CAG	4.34	4.70E-05	1292	CCR4	5.12	1.74E-02	1360	CDK6	1.54	1.55E-03
1225	CABLES2	2.11	5.05E-03	1293	CCR5	4.13	1.12E-03	1361	CDKN2B	3.56	1.11E-03
1226	CABP7	5.06	1.24E-04	1294	CCR6	5.98	7.12E-03	1362	CDR2L	3.89	1.40E-03
1227	CACFD1	3.69	2.39E-03	1295	CCR7	3.84	1.68E-03	1363	CDX1	3.27	6.39E-03
1228	CACNA1B	2.81	2.95E-03	1296	CCR8-L	3.31	1.51E-02	1364	CDX2	6.07	3.21E-03
1229	CACNA1D	2.59	2.73E-02	1297	CCR9	4.65	8.55E-04	1365	CDX4	3.33	1.18E-02
1230	CACNA1E	2.65	3.05E-03	1298	CCS	2.06	1.31E-02	1366	CDYL	1.20	9.06E-03
1231	CACNA2D2	4.95	4.38E-04	1299	CD14	7.27	3.24E-05	1367	CDYL2	2.15	2.96E-02
1232	CACNB2	2.84	1.13E-02	1300	CD163	2.97	5.27E-03	1368	CEBPA	4.01	9.64E-02
1233	CACNG1	4.80	1.15E-03	1301	CD18	4.74	3.09E-02	1369	CEBPB	1.46	1.08E-02
1234	CACNG2	4.34	1.32E-03	1302	CD1C	6.18	4.29E-03	1370	CECR2	5.25	9.59E-04
1235	CACNG3	4.83	1.39E-03	1303	CD2	2.39	1.39E-02	1371	CELA1	3.52	9.13E-02
1236	CACNG4	4.08	9.25E-03	1304	CD200R1	2.91	7.55E-04	1372	CELF4	1.24	1.30E-02
1237	CACNG7	5.13	1.29E-04	1305	CD200R1L	3.96	1.27E-03	1373	CELSR3	4.37	3.42E-03
1238	CACTIN	1.30	3.03E-03	1306	CD215054	2.56	8.14E-03	1374	CEND1	3.83	1.36E-03
1239	CAD	4.07	2.89E-03	1307	CD219003	3.41	2.41E-03	1375	CEP57L1	4.42	3.27E-03
1240	CALB1	3.35	6.68E-03	1308	CD219033	3.79	9.15E-04	1376	CEP68	2.56	1.29E-03
1241	CALB2	2.36	3.48E-03	1309	CD226	4.70	1.08E-03	1377	CER1	4.69	4.89E-03
1242	CALCR	5.15	3.00E-04	1310	CD274	3.43	2.17E-03	1378	CERCAM	3.18	1.14E-02
1243	CALHM1	4.95	8.82E-04	1311	CD28	4.72	2.21E-03	1379	CES1	4.35	1.35E-03
1244	CALHM2	2.52	1.98E-03	1312	CD300A	6.29	6.95E-04	1380	CF255803	2.17	5.64E-03
1245	CALHM3	3.82	6.07E-04	1313	CD300L-S1	5.17	1.69E-03	1381	CF256356	2.69	3.26E-03
1246	CALM3	2.49	5.71E-04	1314	CD320	1.36	4.58E-02	1382	CF257125	2.05	4.95E-03
1247	CALML4	1.66	7.19E-02	1315	CD34	2.84	8.37E-03	1383	CGNRH-R	5.59	1.23E-03
1248	CAMK1	1.09	2.97E-03	1316	CD38	2.63	5.94E-03	1384	CHAC1	2.19	6.14E-04
1249	CAMKK2	3.49	9.85E-03	1317	CD40	2.66	1.52E-02	1385	CHAD	3.77	7.92E-04
1250	CAMKV	2.78	9.34E-03	1318	CD40LG	2.24	4.12E-03	1386	CHAT	5.85	1.24E-04
1251	CAMP	2.74	2.23E-03	1319	CD44	2.52	1.32E-03	1387	CHAT1	5.99	4.55E-03
1252	CAPN3	1.95	2.98E-02	1320	CD5	1.83	1.64E-03	1388	CHAT2	6.83	5.38E-04
1253	CAPN9	2.55	8.73E-04	1321	CD55	4.01	5.11E-03	1389	CHDH	3.29	3.48E-04
1254	CAPSL	2.66	6.62E-03	1322	CD7	5.02	2.10E-04	1390	CHDSD	4.23	2.73E-02
1255	CASKIN1	5.41	2.12E-03	1323	CD72	5.98	3.94E-04	1391	CHEK2	5.09	9.33E-04
1256	CASP14	5.74	8.15E-04	1324	CD727080	5.86	2.73E-03	1392	CHGA	3.25	3.09E-04
1257	CASP7	2.17	1.85E-02	1325	CD734044	2.43	1.37E-03	1393	CHIA	1.23	1.40E-02
1258	CASQ2	2.99	1.70E-02	1326	CD737244	1.19	2.19E-03	1394	CHIR2D-956	5.66	2.91E-04
1259	CAT	5.64	4.85E-03	1327	CD737500	1.46	1.67E-03	1395	CHIR-A2	5.07	3.98E-04
1260	CATHB1	4.24	5.58E-04	1328	CD738021	1.80	2.46E-02	1396	CHIR-AB1	8.12	2.71E-04
1261	CAV1	2.37	5.27E-03	1329	CD762402	2.07	1.34E-02	1397	CHIR-B2	7.42	1.13E-02
1262	CAV3	3.77	6.86E-03	1330	CD762671	5.90	1.29E-04	1398	CHIR-B3	4.94	1.62E-03
1263	CB016838	1.26	1.36E-01	1331	CD763711	3.14	2.18E-03	1399	CHIR-B4	5.96	8.67E-04
1264	CB017893	3.85	2.65E-03	1332	CD764185	2.24	3.29E-03	1400	CHIR-B5	5.12	4.56E-03
1265	CBFA2T3	2.26	1.29E-02	1333	CD765191	1.22	2.43E-02	1401	CHL1	6.52	3.61E-03
1266	CBL	3.69	1.66E-02	1334	CD79B	4.05	3.28E-06	1402	CHN2	1.61	3.09E-02
1267	CBLB	1.09	6.28E-04	1335	CD86	3.48	1.24E-02	1403	CHODL	3.39	1.82E-04
1268	CBLN2	4.90	4.88E-03	1336	CD8A	3.94	5.30E-03	1404	CHPF	3.92	2.85E-03
1269	CBLN4	5.55	1.50E-03	1337	CD8B	2.28	1.33E-02	1405	CHRD	3.02	7.19E-03
1270	CBX2	3.55	4.24E-03	1338	CD42EP1	3.58	7.93E-03	1406	CHRM3	3.20	7.00E-03
1271	CBX8	5.07	9.89E-04	1339	CDC42EP3	1.56	4.13E-03	1407	CHRM4	3.55	7.25E-03
1272	CCBE1	1.79	1.90E-03	1340	CDCP2	5.04	2.13E-03	1408	CHRNA1	5.15	1.09E-03
1273	CCBL1	1.15	4.86E-03	1341	CDD	3.54	2.69E-03	1409	CHRNA10	4.17	1.77E-04
1274	CCDC108	2.66	3.08E-02	1342	CDH10	5.83	4.56E-03	1410	CHRNA2	3.29	1.28E-02
1275	CCDC113	3.31	4.08E-03	1343	CDH12	6.37	4.41E-03	1411	CHRNA4	2.19	8.87E-03
1276	CCDC124	2.26	1.84E-03	1344	CDH17	1.84	1.56E-03	1412	CHRNA7	5.03	5.71E-03
1277	CCDC141	4.08	2.69E-04	1345	CDH19	5.10	2.34E-03	1413	CHRNB3	2.94	4.60E-03
1278	CCDC28B	1.81	6.40E-03	1346	CDH20	2.25	9.43E-03	1414	CHRNB4	3.43	2.86E-04
1279	CCDC50	2.29	5.84E-02	1347	CDH22	5.25	2.29E-02	1415	CHNRD	5.60	5.19E-04
1280	CCDC51	2.79	2.11E-03	1348	CDH23	3.30	1.67E-03	1416	CHNRG	2.19	5.24E-03
1281	CCKBR	5.19	5.27E-03	1349	CDH3	3.07	5.12E-03	1417	CHST1	3.36	1.51E-02
1282	CCL1	2.10	1.02E-01	1350	CDH4	1.48	6.68E-02	1418	CHST12	2.28	3.47E-03
1283	CCL17	4.62	2.28E-03	1351	CDH6	1.29	1.06E-01	1419	CHST13	1.55	1.01E-02
1284	CCL19	4.45	2.33E-02	1352	CDH7	5.46	2.84E-04	1420	CHST14	3.17	2.39E-03
1285	CCL4	3.92	1.82E-04	1353	CDH8	2.52	3.35E-03	1421	CHST2	3.52	2.75E-03
1286	CCL5	3.37	1.17E-03	1354	CDH9	6.41	4.88E-03	1422	CHST3	5.46	7.28E-03
1287	CCL15	2.99	7.08E-04	1355	CDHR2	1.85	9.58E-03	1423	CHUNK-1	3.87	7.19E-04
1288	CCNJ	1.86	9.72E-03	1356	CDK12	2.03	1.49E-02	1424	CIB2	1.11	3.01E-03
1289	CCNJL	4.11	1.26E-04	1357	CDK14	3.29	3.16E-03	1425	CILP	4.17	4.75E-04
1290	CCNY	2.87	9.05E-03	1358	CDK2	1.60	2.68E-02	1426	CIRH1A	1.64	2.07E-03
1291	CCR2	2.53	1.83E-02	1359	CDK5RAP3	1.75	7.60E-03	1427	CK609977	7.49	2.91E-03

1428	CKM	2.72	4.47E-03	1496	CO635716	3.24	1.11E-02	1564	CR338699	4.26	1.25E-02
1429	CL2	1.93	5.72E-03	1497	CO635731	1.32	3.62E-03	1565	CR338701	6.92	1.09E-03
1430	CLDN11	1.55	6.56E-02	1498	CO759325	1.84	3.03E-03	1566	CR338702	4.54	2.27E-03
1431	CLDN12	2.07	1.44E-02	1499	CO759834	1.58	1.22E-02	1567	CR338705	4.76	7.61E-04
1432	CLDN14	3.86	2.59E-04	1500	CO760685	2.83	1.35E-02	1568	CR338706	1.28	4.20E-02
1433	CLDN16	4.07	1.20E-02	1501	CO761139	4.79	1.32E-03	1569	CR338707	2.22	3.10E-02
1434	CLDN2	2.58	2.01E-03	1502	CO763152	1.31	8.18E-02	1570	CR338708	3.90	2.54E-03
1435	CLDN20	5.61	5.51E-03	1503	CO763296	1.41	3.99E-02	1571	CR338709	5.16	8.91E-03
1436	CLDN25	5.56	1.42E-03	1504	CO763813	1.24	1.61E-02	1572	CR338710	5.96	5.73E-03
1437	CLDN3	1.68	4.28E-03	1505	CO766732	3.15	2.20E-04	1573	CR338716	5.19	3.25E-03
1438	CLDN4	5.87	6.04E-04	1506	CO767189	5.69	3.17E-06	1574	CR338717	4.78	3.69E-03
1439	CLDN5	1.90	6.81E-02	1507	CO767778	4.01	9.91E-05	1575	CR338719	4.27	1.87E-03
1440	CLDN8	6.68	1.70E-03	1508	CO767816	4.33	5.70E-03	1576	CR338721	4.92	4.19E-03
1441	CLEC2D	4.01	1.66E-03	1509	CO772450	1.44	5.06E-02	1577	CR338722	1.24	3.18E-03
1442	CLEC3A	8.59	4.67E-04	1510	COCH	4.94	1.52E-02	1578	CR338724	5.92	5.25E-03
1443	CLIC2	2.13	3.55E-03	1511	COL11A1	1.49	3.67E-03	1579	CR338725	4.96	6.15E-04
1444	CLIC3	1.94	1.38E-02	1512	COL12A1	2.54	7.53E-03	1580	CR338729	3.15	2.47E-03
1445	CLIC5	4.17	9.29E-04	1513	COL22A1	1.36	3.07E-02	1581	CR338736	5.67	2.96E-04
1446	CLIC6	3.25	5.69E-04	1514	COL23A1	1.75	7.50E-03	1582	CR338737	1.58	6.70E-03
1447	CLPS	4.39	3.96E-04	1515	COL24A1	1.51	1.24E-01	1583	CR338738	1.42	5.05E-02
1448	CLRN1	3.21	6.34E-03	1516	COL25A1	4.83	6.20E-04	1584	CR338742	1.99	2.27E-02
1449	CLRN3	3.60	2.74E-03	1517	COL27A1	3.48	1.14E-02	1585	CR338743	6.68	2.23E-03
1450	CLUL1	3.86	1.40E-03	1518	COL2A1	2.38	3.66E-02	1586	CR338747	2.78	2.16E-02
1451	CLVS1	3.83	5.46E-03	1519	COL4A2	1.41	1.32E-02	1587	CR338749	5.20	4.05E-04
1452	CMBL	5.56	2.11E-03	1520	COL4A3	2.67	4.23E-03	1588	CR338750	1.34	9.48E-03
1453	CMPK2	2.30	2.48E-02	1521	COL4A6	2.24	7.97E-04	1589	CR338754	5.40	1.50E-05
1454	CMTM6	3.70	1.34E-02	1522	COL6A3	1.54	4.63E-02	1590	CR338758	4.41	1.08E-02
1455	CN210139	3.18	1.90E-02	1523	COL8A2	4.13	5.12E-02	1591	CR338762	4.18	6.76E-03
1456	CN210811	1.77	6.65E-02	1524	COL9A2	3.03	4.66E-02	1592	CR338767	2.70	2.91E-03
1457	CN210842	1.69	4.36E-02	1525	COLEC11	1.96	1.39E-03	1593	CR338770	3.94	2.71E-02
1458	CN218494	3.88	3.20E-05	1526	COLQ	2.45	1.42E-02	1594	CR338772	4.70	7.96E-03
1459	CN221000	2.08	1.76E-02	1527	COMMD9	6.45	3.21E-03	1595	CR338773	7.01	2.03E-03
1460	CN221487	4.49	1.20E-02	1528	COPN5L1	3.60	5.20E-05	1596	CR338775	4.31	1.28E-03
1461	CN221750	3.52	2.31E-04	1529	COPN5L2	4.31	1.35E-03	1597	CR338777	1.31	3.01E-02
1462	CN226347	4.62	2.16E-03	1530	COR1	2.97	8.61E-03	1598	CR338782	2.59	7.19E-03
1463	CN227706	4.53	6.20E-03	1531	COR4	4.36	4.50E-04	1599	CR338788	3.90	5.35E-03
1464	CN229808	3.57	2.78E-04	1532	COR6	4.63	1.79E-03	1600	CR338792	2.14	4.39E-02
1465	CN231830	4.09	2.28E-03	1533	COR7A	5.68	1.59E-04	1601	CR338798	3.99	4.71E-03
1466	CN232637	4.29	1.03E-03	1534	COR8	3.19	9.29E-03	1602	CR338800	2.38	9.57E-03
1467	CN232948	4.36	2.11E-04	1535	COR07	4.66	2.76E-03	1603	CR338806	5.03	5.34E-04
1468	CN234658	4.80	7.46E-04	1536	COTL1	2.85	1.34E-02	1604	CR338811	5.58	3.15E-03
1469	CN235660	1.33	6.96E-03	1537	CP	3.73	7.26E-03	1605	CR338812	5.10	8.15E-04
1470	CNGA1	5.55	9.91E-03	1538	CPA1	3.45	3.94E-03	1606	CR338817	4.87	5.52E-04
1471	CNGA4	3.19	2.30E-03	1539	CPA6	4.91	3.79E-04	1607	CR338821	2.42	2.10E-02
1472	CNKSR2	2.50	1.56E-02	1540	CPB1	2.70	3.87E-03	1608	CR338825	3.96	8.61E-03
1473	CNKSR3	2.27	7.07E-03	1541	CPED1	4.47	1.53E-04	1609	CR338826	5.12	5.89E-03
1474	CNN1	1.76	1.37E-02	1542	CPLX2	2.61	2.33E-03	1610	CR338827	9.00	5.00E-03
1475	CNOT6L	1.96	7.47E-05	1543	CPLX3	3.99	1.20E-03	1611	CR338831	2.76	3.98E-03
1476	CNP1	3.04	1.77E-03	1544	CPLX4	6.31	3.87E-03	1612	CR338841	5.21	1.92E-03
1477	CNR2	4.65	3.07E-04	1545	CPO	4.82	4.03E-03	1613	CR338845	5.09	7.77E-03
1478	CNRIP1	1.65	6.80E-03	1546	CPSF7	2.29	4.32E-03	1614	CR338846	6.25	1.88E-03
1479	CNTF	2.51	2.06E-03	1547	CPXM2	2.32	2.52E-03	1615	CR338848	2.37	2.17E-03
1480	CNTFR	4.46	2.02E-04	1548	CPZ	3.57	1.10E-01	1616	CR338850	5.68	5.47E-04
1481	CNTN2	4.61	8.38E-04	1549	CR1L	1.83	7.18E-03	1617	CR338856	2.84	1.70E-03
1482	CNTN3	3.94	6.57E-04	1550	CR2	2.17	4.48E-04	1618	CR338857	2.25	2.11E-03
1483	CNTN4	1.60	6.09E-04	1551	CR338678	4.99	5.29E-04	1619	CR338858	1.64	2.29E-02
1484	CNTN5	4.62	1.17E-03	1552	CR338681	2.21	5.77E-03	1620	CR338862	3.64	1.87E-03
1485	CNTN6	6.63	1.54E-02	1553	CR338682	4.04	6.72E-03	1621	CR338866	2.80	1.73E-03
1486	CNTNAP2	5.02	9.21E-04	1554	CR338683	2.80	5.30E-03	1622	CR338867	5.87	1.70E-04
1487	CNTNAP5	2.70	1.11E-02	1555	CR338684	4.73	3.31E-02	1623	CR338879	4.27	6.78E-03
1488	CO420084	2.05	9.31E-03	1556	CR338685	4.00	3.36E-03	1624	CR338881	6.91	2.35E-03
1489	CO421882	4.43	2.57E-03	1557	CR338687	3.35	9.18E-03	1625	CR338884	2.71	6.29E-03
1490	CO421926	3.16	9.00E-03	1558	CR338689	4.76	1.03E-02	1626	CR338885	2.33	7.37E-03
1491	CO422852	4.01	3.05E-04	1559	CR338690	6.08	2.15E-04	1627	CR338887	1.58	3.07E-02
1492	CO503335	4.07	2.06E-03	1560	CR338693	5.60	2.55E-03	1628	CR338897	3.94	6.11E-03
1493	CO635507	5.16	1.65E-03	1561	CR338696	6.11	4.64E-05	1629	CR338898	2.14	3.37E-03
1494	CO635574	3.40	1.79E-03	1562	CR338697	5.61	2.22E-03	1630	CR338902	4.24	1.59E-03
1495	CO635711	4.84	4.30E-04	1563	CR338698	3.09	2.45E-03	1631	CR338904	5.70	5.01E-06

1632	CR338906	5.64	3.55E-05	1700	CR352540	3.64	1.97E-03	1768	CR352969	5.03	4.05E-03
1633	CR338908	5.95	1.68E-03	1701	CR352543	4.20	1.50E-03	1769	CR352971	6.23	1.31E-04
1634	CR338911	2.10	3.80E-02	1702	CR352553	3.67	5.78E-03	1770	CR352972	1.28	1.32E-02
1635	CR338912	2.78	3.35E-03	1703	CR352561	2.67	1.33E-02	1771	CR352973	1.56	4.57E-02
1636	CR338918	1.16	2.32E-02	1704	CR352566	6.08	3.95E-03	1772	CR352982	4.78	2.66E-02
1637	CR338919	3.87	3.11E-03	1705	CR352582	4.16	5.70E-04	1773	CR352986	2.27	1.17E-04
1638	CR338927	4.23	7.76E-04	1706	CR352584	2.87	4.79E-03	1774	CR352993	2.40	4.36E-03
1639	CR338932	5.15	1.18E-02	1707	CR352589	1.70	4.00E-02	1775	CR353004	1.75	5.69E-03
1640	CR338934	3.20	1.03E-02	1708	CR352600	4.75	3.72E-03	1776	CR353005	1.51	5.11E-02
1641	CR338935	5.67	9.26E-03	1709	CR352603	2.05	1.03E-02	1777	CR353006	5.79	6.60E-04
1642	CR338937	2.86	6.02E-04	1710	CR352604	2.07	2.69E-03	1778	CR353008	4.63	5.50E-04
1643	CR338945	6.85	1.09E-03	1711	CR352614	3.52	7.03E-05	1779	CR353009	6.38	1.14E-02
1644	CR338950	1.43	1.36E-01	1712	CR352628	2.11	2.12E-03	1780	CR353012	3.17	3.03E-04
1645	CR338951	3.07	1.39E-02	1713	CR352631	3.96	8.15E-03	1781	CR353018	6.08	3.76E-03
1646	CR338952	6.28	3.69E-04	1714	CR352644	4.64	7.35E-03	1782	CR353019	1.24	4.42E-03
1647	CR338961	1.79	4.72E-03	1715	CR352646	2.13	3.93E-03	1783	CR353020	1.87	4.20E-03
1648	CR338962	1.89	2.15E-02	1716	CR352649	1.24	1.22E-01	1784	CR353034	4.97	2.02E-03
1649	CR338963	4.29	2.02E-03	1717	CR352652	5.47	8.32E-04	1785	CR353037	5.78	7.44E-04
1650	CR338964	4.39	1.49E-03	1718	CR352669	1.52	3.10E-02	1786	CR353038	4.83	1.18E-02
1651	CR338967	2.91	3.47E-02	1719	CR352672	3.02	3.73E-03	1787	CR353040	1.49	3.08E-02
1652	CR338969	5.23	5.85E-03	1720	CR352674	4.13	8.54E-03	1788	CR353059	4.44	4.39E-03
1653	CR338974	2.72	2.43E-02	1721	CR352675	4.86	2.81E-03	1789	CR353073	3.41	7.66E-03
1654	CR338977	3.05	2.48E-03	1722	CR352676	4.40	1.17E-03	1790	CR353094	2.98	4.85E-04
1655	CR338988	1.55	8.83E-04	1723	CR352681	5.25	3.46E-03	1791	CR353095	2.28	2.19E-01
1656	CR338999	6.01	7.92E-04	1724	CR352684	3.05	3.55E-02	1792	CR353096	2.66	6.66E-03
1657	CR339002	4.13	9.36E-04	1725	CR352696	4.80	6.79E-03	1793	CR353097	6.09	1.93E-03
1658	CR339005	2.88	3.98E-03	1726	CR352702	2.81	3.11E-03	1794	CR353105	2.42	1.90E-03
1659	CR339007	5.00	5.80E-05	1727	CR352703	4.40	1.95E-03	1795	CR353113	1.83	9.21E-03
1660	CR339009	3.53	2.76E-03	1728	CR352706	1.23	1.01E-02	1796	CR353123	5.29	5.03E-03
1661	CR339011	5.23	1.19E-02	1729	CR352711	3.77	1.18E-02	1797	CR353138	5.48	8.65E-03
1662	CR339013	1.34	2.50E-02	1730	CR352718	3.93	2.03E-03	1798	CR353140	6.04	5.70E-03
1663	CR339018	2.22	1.26E-02	1731	CR352721	1.43	1.57E-02	1799	CR353142	2.04	7.55E-03
1664	CR339021	1.88	2.44E-03	1732	CR352734	3.91	1.62E-02	1800	CR353150	1.58	1.08E-01
1665	CR339023	5.67	1.12E-03	1733	CR352736	2.54	1.44E-02	1801	CR353156	4.41	4.59E-03
1666	CR339026	3.61	6.12E-04	1734	CR352756	1.43	3.18E-02	1802	CR353163	6.20	8.25E-04
1667	CR339027	3.08	2.27E-02	1735	CR352773	2.19	2.21E-02	1803	CR353167	5.63	1.75E-02
1668	CR339028	6.99	2.23E-03	1736	CR352774	3.76	1.42E-02	1804	CR353174	2.20	7.88E-03
1669	CR339029	2.50	5.44E-04	1737	CR352791	1.84	3.53E-03	1805	CR353175	2.06	7.17E-03
1670	CR339031	6.37	3.18E-05	1738	CR352792	3.10	4.45E-03	1806	CR353176	4.04	1.89E-03
1671	CR339032	3.45	7.77E-04	1739	CR352795	5.79	7.55E-04	1807	CR353183	1.95	3.37E-03
1672	CR352343	5.53	5.07E-04	1740	CR352804	6.21	9.45E-05	1808	CR353191	3.82	1.15E-03
1673	CR352344	4.44	2.40E-02	1741	CR352809	5.15	9.42E-03	1809	CR353199	2.17	1.42E-02
1674	CR352350	5.53	6.83E-04	1742	CR352825	4.27	3.46E-03	1810	CR353201	4.63	1.08E-02
1675	CR352354	3.39	1.07E-02	1743	CR352836	2.49	2.09E-02	1811	CR353204	2.91	1.31E-02
1676	CR352355	2.18	3.32E-04	1744	CR352838	1.28	3.33E-02	1812	CR353205	2.91	1.15E-02
1677	CR352365	2.14	5.97E-02	1745	CR352839	4.60	5.23E-03	1813	CR353210	5.59	3.76E-03
1678	CR352405	3.67	9.06E-03	1746	CR352840	5.89	3.06E-05	1814	CR353220	2.67	6.97E-03
1679	CR352424	1.62	4.54E-03	1747	CR352841	1.56	3.13E-03	1815	CR353226	1.68	1.97E-02
1680	CR352428	4.37	3.34E-02	1748	CR352858	3.56	5.79E-03	1816	CR353227	2.31	1.74E-02
1681	CR352430	3.20	7.15E-03	1749	CR352859	1.90	2.45E-02	1817	CR353240	4.00	2.18E-03
1682	CR352431	1.29	7.48E-04	1750	CR352865	5.79	3.65E-03	1818	CR353241	2.36	9.76E-03
1683	CR352436	1.48	5.39E-02	1751	CR352867	5.18	1.71E-03	1819	CR353243	2.16	2.58E-03
1684	CR352442	2.58	1.35E-02	1752	CR352868	3.76	2.71E-03	1820	CR353250	2.89	1.90E-02
1685	CR352443	4.44	5.95E-03	1753	CR352869	3.90	6.83E-03	1821	CR353255	2.57	5.96E-03
1686	CR352444	2.16	1.98E-02	1754	CR352871	4.72	1.48E-03	1822	CR353259	3.74	1.04E-03
1687	CR352451	2.42	4.29E-03	1755	CR352872	2.97	8.48E-04	1823	CR353261	1.77	3.78E-03
1688	CR352455	4.34	2.50E-02	1756	CR352875	2.00	7.89E-03	1824	CR353267	3.56	2.06E-02
1689	CR352458	3.64	2.64E-03	1757	CR352879	1.20	5.60E-03	1825	CR353270	2.33	4.53E-02
1690	CR352464	2.02	7.83E-03	1758	CR352881	5.00	1.09E-03	1826	CR353274	4.91	2.73E-04
1691	CR352466	2.72	5.15E-02	1759	CR352904	1.78	3.94E-02	1827	CR353276	2.64	4.13E-03
1692	CR352468	4.70	4.80E-04	1760	CR352908	5.06	2.24E-03	1828	CR353278	1.72	8.18E-03
1693	CR352469	1.98	2.40E-02	1761	CR352930	1.19	1.66E-03	1829	CR353279	6.06	2.17E-03
1694	CR352472	1.98	1.10E-02	1762	CR352936	2.55	1.72E-01	1830	CR353282	4.46	5.61E-03
1695	CR352475	5.85	1.53E-02	1763	CR352940	1.82	1.57E-02	1831	CR353288	2.81	6.44E-04
1696	CR352479	2.97	2.09E-02	1764	CR352948	2.64	2.47E-02	1832	CR353289	2.70	1.73E-02
1697	CR352498	5.48	2.80E-05	1765	CR352949	4.08	2.59E-03	1833	CR353292	2.84	1.78E-03
1698	CR352527	2.33	2.50E-02	1766	CR352952	3.03	8.95E-04	1834	CR353302	4.85	7.48E-03
1699	CR352535	3.04	1.10E-02	1767	CR352964	2.65	3.89E-03	1835	CR353304	2.74	1.29E-04

1836	CR353316	5.04	2.82E-03	1904	CR353760	7.03	2.87E-04	1972	CR354216	2.07	9.12E-03
1837	CR353319	1.75	3.37E-02	1905	CR353764	6.55	2.93E-03	1973	CR354217	6.08	9.71E-04
1838	CR353323	2.82	8.48E-03	1906	CR353771	3.08	6.29E-02	1974	CR354220	1.59	1.25E-02
1839	CR353341	6.12	6.53E-04	1907	CR353773	3.24	3.41E-03	1975	CR354224	2.83	8.46E-03
1840	CR353347	1.48	1.39E-03	1908	CR353795	3.64	1.29E-02	1976	CR354227	2.67	8.68E-04
1841	CR353355	4.25	5.20E-03	1909	CR353796	4.90	7.65E-03	1977	CR354233	6.29	1.30E-02
1842	CR353358	2.86	1.44E-03	1910	CR353801	6.14	1.82E-03	1978	CR354238	1.36	1.62E-03
1843	CR353361	3.97	4.75E-03	1911	CR353808	2.21	2.03E-03	1979	CR354243	4.05	1.48E-03
1844	CR353374	1.80	5.64E-03	1912	CR353815	4.16	2.19E-03	1980	CR354254	1.85	2.10E-03
1845	CR353391	4.63	3.62E-03	1913	CR353816	1.76	2.40E-02	1981	CR354261	2.24	8.44E-04
1846	CR353392	3.64	5.44E-03	1914	CR353818	5.02	7.49E-03	1982	CR354264	3.80	1.87E-04
1847	CR353394	1.33	3.05E-03	1915	CR353837	6.23	2.01E-04	1983	CR354267	2.51	7.81E-02
1848	CR353395	2.20	9.88E-04	1916	CR353839	5.90	3.97E-03	1984	CR354270	2.14	2.39E-03
1849	CR353396	1.51	2.47E-03	1917	CR353844	7.16	1.14E-03	1985	CR354277	4.30	4.66E-03
1850	CR353399	5.59	2.93E-04	1918	CR353849	3.16	1.35E-02	1986	CR354282	4.87	1.79E-03
1851	CR353402	2.09	1.29E-03	1919	CR353851	2.68	1.45E-02	1987	CR354290	3.84	4.17E-03
1852	CR353405	1.41	6.30E-04	1920	CR353852	3.66	1.29E-03	1988	CR354302	5.02	2.15E-02
1853	CR353409	1.85	4.95E-02	1921	CR353860	3.94	2.16E-04	1989	CR354304	4.51	4.06E-03
1854	CR353431	1.49	8.35E-03	1922	CR353861	4.47	5.25E-04	1990	CR354344	4.90	1.45E-03
1855	CR353432	5.19	1.56E-02	1923	CR353864	1.86	5.66E-02	1991	CR354356	4.26	3.17E-03
1856	CR353433	1.65	4.31E-02	1924	CR353868	1.77	1.80E-02	1992	CR382424	6.08	1.75E-03
1857	CR353451	5.23	6.41E-03	1925	CR353871	1.75	2.31E-02	1993	CR385094	2.98	5.22E-03
1858	CR353455	3.59	4.05E-04	1926	CR353876	5.00	4.18E-03	1994	CR385097	1.69	3.23E-03
1859	CR353462	3.96	1.29E-03	1927	CR353882	1.25	9.05E-03	1995	CR385099	3.97	4.53E-04
1860	CR353463	2.25	1.78E-02	1928	CR353883	5.56	1.00E-02	1996	CR385101	3.64	2.51E-04
1861	CR353467	2.97	1.01E-03	1929	CR353885	3.38	8.45E-03	1997	CR385107	2.92	2.10E-04
1862	CR353469	1.86	5.95E-02	1930	CR353887	5.65	1.59E-03	1998	CR385114	5.16	3.71E-04
1863	CR353472	4.65	1.49E-03	1931	CR353899	3.13	1.46E-03	1999	CR385128	4.36	3.99E-03
1864	CR353474	2.95	4.62E-02	1932	CR353908	2.81	1.89E-02	2000	CR385134	1.36	7.41E-02
1865	CR353477	2.33	1.79E-02	1933	CR353914	3.12	1.93E-04	2001	CR385140	2.88	3.85E-03
1866	CR353521	2.50	4.12E-03	1934	CR353929	2.90	3.62E-02	2002	CR385163	3.88	3.70E-02
1867	CR353532	1.56	5.39E-02	1935	CR353933	3.98	6.64E-03	2003	CR385167	1.42	2.65E-02
1868	CR353570	1.58	7.73E-03	1936	CR353941	5.62	3.13E-03	2004	CR385172	5.84	3.12E-04
1869	CR353571	2.91	1.40E-02	1937	CR353946	1.39	8.50E-03	2005	CR385174	3.67	4.51E-03
1870	CR353593	7.08	8.34E-06	1938	CR353987	3.83	3.44E-03	2006	CR385179	3.64	1.89E-02
1871	CR353594	2.36	3.51E-03	1939	CR354018	1.43	4.95E-02	2007	CR385181	3.12	6.33E-03
1872	CR353617	4.83	1.47E-02	1940	CR354020	4.77	6.88E-04	2008	CR385182	4.25	4.94E-04
1873	CR353618	6.07	1.58E-02	1941	CR354027	5.01	3.02E-03	2009	CR385185	1.42	6.55E-02
1874	CR353620	1.58	1.68E-02	1942	CR354034	3.70	2.43E-02	2010	CR385192	1.29	3.17E-02
1875	CR353623	1.23	3.20E-02	1943	CR354036	1.96	3.56E-02	2011	CR385200	5.08	5.55E-03
1876	CR353626	4.93	8.86E-02	1944	CR354047	2.79	5.86E-03	2012	CR385201	1.33	3.11E-02
1877	CR353632	3.83	1.96E-02	1945	CR354051	2.59	1.80E-03	2013	CR385203	5.83	2.48E-03
1878	CR353634	3.81	4.38E-04	1946	CR354052	4.03	3.32E-04	2014	CR385204	3.25	2.15E-02
1879	CR353635	2.77	1.48E-03	1947	CR354053	1.81	2.38E-02	2015	CR385207	5.03	3.25E-02
1880	CR353636	2.10	9.23E-03	1948	CR354055	4.15	1.62E-03	2016	CR385212	2.77	1.14E-02
1881	CR353637	2.10	9.74E-04	1949	CR354059	3.44	2.58E-04	2017	CR385213	1.39	3.01E-02
1882	CR353649	2.52	3.88E-03	1950	CR354061	2.65	9.69E-03	2018	CR385214	2.54	1.94E-02
1883	CR353655	3.13	1.99E-02	1951	CR354065	1.89	1.08E-03	2019	CR385215	2.46	1.52E-02
1884	CR353672	1.47	3.91E-03	1952	CR354071	4.32	1.43E-04	2020	CR385219	1.61	1.16E-02
1885	CR353673	2.83	1.88E-03	1953	CR354085	5.53	1.11E-02	2021	CR385221	1.62	5.55E-02
1886	CR353674	4.05	1.58E-02	1954	CR354095	1.70	3.11E-02	2022	CR385231	2.48	3.18E-04
1887	CR353679	1.86	5.48E-03	1955	CR354104	5.41	8.52E-03	2023	CR385234	5.78	1.45E-03
1888	CR353681	3.17	9.11E-03	1956	CR354113	2.09	9.30E-03	2024	CR385237	3.07	1.42E-02
1889	CR353682	3.13	1.64E-03	1957	CR354126	3.95	8.76E-03	2025	CR385239	2.18	4.62E-03
1890	CR353686	3.20	6.12E-03	1958	CR354136	5.29	3.14E-03	2026	CR385242	2.85	1.41E-03
1891	CR353687	4.98	3.83E-03	1959	CR354142	4.32	2.31E-03	2027	CR385248	4.45	5.39E-04
1892	CR353696	2.12	7.42E-03	1960	CR354148	3.06	1.40E-02	2028	CR385249	1.72	8.51E-02
1893	CR353697	3.37	8.49E-03	1961	CR354161	6.47	1.64E-06	2029	CR385253	6.14	4.24E-03
1894	CR353699	2.25	9.67E-04	1962	CR354165	1.81	1.03E-02	2030	CR385255	3.24	2.31E-03
1895	CR353715	1.83	2.66E-02	1963	CR354166	1.86	2.44E-02	2031	CR385257	1.53	4.16E-02
1896	CR353729	8.74	9.59E-04	1964	CR354168	4.27	5.36E-03	2032	CR385264	2.78	9.72E-03
1897	CR353738	3.73	3.22E-04	1965	CR354181	5.31	3.37E-04	2033	CR385270	1.93	8.01E-03
1898	CR353741	1.38	2.81E-03	1966	CR354182	1.96	1.93E-02	2034	CR385272	3.02	5.03E-03
1899	CR353742	4.66	4.20E-03	1967	CR354194	3.15	1.96E-02	2035	CR385275	5.89	6.46E-04
1900	CR353747	4.80	5.21E-03	1968	CR354200	1.93	2.02E-02	2036	CR385277	3.27	4.97E-03
1901	CR353751	1.49	2.00E-03	1969	CR354208	5.08	2.08E-03	2037	CR385281	1.58	2.70E-02
1902	CR353755	8.49	1.14E-03	1970	CR354211	5.39	2.05E-02	2038	CR385284	2.45	8.16E-03
1903	CR353758	5.60	7.32E-03	1971	CR354212	6.27	1.33E-04	2039	CR385291	6.77	9.31E-04

2040	CR385292	3.82	9.92E-05	2108	CR385678	2.12	4.35E-03	2176	CR385942	2.57	1.80E-02
2041	CR385294	3.64	3.26E-03	2109	CR385679	3.70	7.42E-03	2177	CR385949	2.85	1.06E-02
2042	CR385295	3.38	2.96E-02	2110	CR385683	1.17	1.52E-03	2178	CR385966	6.21	1.04E-03
2043	CR385298	1.43	2.07E-02	2111	CR385686	1.21	1.93E-02	2179	CR385974	2.69	1.84E-02
2044	CR385301	2.23	4.41E-03	2112	CR385695	2.60	2.34E-03	2180	CR385981	4.17	1.70E-02
2045	CR385302	2.81	2.90E-03	2113	CR385699	3.51	1.18E-02	2181	CR385988	3.46	5.37E-04
2046	CR385304	7.20	2.32E-03	2114	CR385704	6.37	4.70E-05	2182	CR385990	1.97	2.46E-02
2047	CR385309	4.88	5.86E-04	2115	CR385705	2.27	6.26E-03	2183	CR385994	1.77	8.43E-02
2048	CR385331	3.65	5.92E-03	2116	CR385709	6.14	1.03E-05	2184	CR386003	5.80	4.99E-02
2049	CR385348	2.16	6.24E-03	2117	CR385710	1.60	9.69E-02	2185	CR386006	2.08	6.44E-03
2050	CR385350	2.94	5.19E-03	2118	CR385711	2.86	1.26E-03	2186	CR386008	2.42	4.83E-03
2051	CR385379	2.72	3.66E-03	2119	CR385713	6.91	7.84E-04	2187	CR386010	2.38	5.02E-03
2052	CR385380	2.89	6.79E-03	2120	CR385714	4.12	4.53E-04	2188	CR386011	6.07	4.91E-03
2053	CR385385	3.75	3.86E-03	2121	CR385717	3.44	1.89E-03	2189	CR386014	1.34	7.68E-03
2054	CR385397	4.23	2.90E-03	2122	CR385732	2.24	2.10E-02	2190	CR386017	2.39	6.32E-03
2055	CR385402	5.81	1.39E-03	2123	CR385738	3.25	3.97E-03	2191	CR386021	3.52	1.47E-03
2056	CR385405	6.67	4.77E-03	2124	CR385739	2.03	1.42E-03	2192	CR386022	4.42	9.76E-03
2057	CR385415	5.01	1.78E-04	2125	CR385742	2.42	2.27E-02	2193	CR386023	2.71	1.21E-02
2058	CR385426	2.21	2.03E-03	2126	CR385744	4.26	7.33E-04	2194	CR386033	3.39	1.31E-04
2059	CR385428	4.71	2.83E-03	2127	CR385752	4.93	1.38E-02	2195	CR386035	1.50	4.02E-03
2060	CR385453	2.90	1.07E-03	2128	CR385753	4.15	5.03E-03	2196	CR386036	3.77	9.57E-03
2061	CR385469	4.02	5.47E-03	2129	CR385755	2.19	3.07E-03	2197	CR386038	4.09	2.89E-03
2062	CR385472	2.85	4.64E-02	2130	CR385760	3.58	8.23E-03	2198	CR386042	2.90	2.28E-03
2063	CR385477	3.98	3.89E-04	2131	CR385762	3.74	1.55E-02	2199	CR386046	2.08	3.13E-02
2064	CR385480	4.14	1.02E-02	2132	CR385764	4.81	1.99E-03	2200	CR386051	1.93	1.45E-02
2065	CR385481	2.68	1.23E-03	2133	CR385769	9.47	3.07E-03	2201	CR386057	3.93	6.28E-03
2066	CR385493	4.20	7.16E-03	2134	CR385771	5.51	8.32E-04	2202	CR386059	1.66	2.27E-02
2067	CR385501	3.01	2.49E-03	2135	CR385774	5.70	1.68E-03	2203	CR386060	1.73	7.79E-03
2068	CR385507	2.09	7.40E-02	2136	CR385791	4.91	4.10E-03	2204	CR386064	7.20	5.13E-03
2069	CR385514	5.20	4.45E-03	2137	CR385815	1.45	2.03E-02	2205	CR386065	3.11	1.18E-02
2070	CR385516	4.22	1.60E-02	2138	CR385820	6.36	6.71E-05	2206	CR386067	1.20	7.44E-03
2071	CR385523	2.98	1.96E-02	2139	CR385833	1.58	6.09E-03	2207	CR386077	4.79	7.69E-03
2072	CR385527	1.35	2.83E-02	2140	CR385843	3.91	6.77E-04	2208	CR386086	1.88	7.02E-03
2073	CR385533	2.52	1.54E-03	2141	CR385846	3.50	2.76E-02	2209	CR386087	2.02	1.05E-02
2074	CR385535	4.54	7.27E-03	2142	CR385848	4.41	6.93E-03	2210	CR386089	5.06	1.94E-02
2075	CR385537	3.20	5.40E-04	2143	CR385849	4.45	2.95E-03	2211	CR386092	6.33	9.91E-04
2076	CR385538	4.47	1.32E-03	2144	CR385851	3.27	6.65E-02	2212	CR386096	2.29	2.06E-02
2077	CR385542	2.45	3.15E-02	2145	CR385855	3.66	3.47E-03	2213	CR386098	1.56	7.08E-03
2078	CR385549	4.12	1.32E-03	2146	CR385861	2.58	1.04E-02	2214	CR386099	3.02	8.92E-05
2079	CR385555	3.79	2.85E-03	2147	CR385862	4.63	1.39E-02	2215	CR386105	3.19	1.79E-02
2080	CR385557	2.57	4.23E-02	2148	CR385863	2.97	7.15E-03	2216	CR386111	1.68	2.24E-02
2081	CR385568	4.26	9.17E-03	2149	CR385865	1.32	4.31E-03	2217	CR386112	1.72	3.72E-02
2082	CR385584	1.60	1.33E-02	2150	CR385867	5.79	1.40E-02	2218	CR386121	1.79	2.72E-03
2083	CR385589	1.68	1.84E-02	2151	CR385868	3.64	2.50E-03	2219	CR386136	2.67	1.19E-02
2084	CR385591	4.02	6.34E-03	2152	CR385872	2.48	1.54E-03	2220	CR386141	5.29	2.86E-03
2085	CR385592	2.76	5.67E-03	2153	CR385873	2.78	3.25E-02	2221	CR386147	5.85	2.68E-04
2086	CR385595	2.32	3.25E-02	2154	CR385877	4.28	2.82E-03	2222	CR386148	3.75	6.76E-03
2087	CR385596	5.63	5.58E-03	2155	CR385878	2.74	1.29E-02	2223	CR386150	2.30	3.29E-02
2088	CR385598	6.50	3.35E-03	2156	CR385881	1.59	4.12E-02	2224	CR386151	8.23	5.95E-05
2089	CR385605	7.11	3.85E-03	2157	CR385895	2.78	7.48E-03	2225	CR386169	3.71	1.87E-03
2090	CR385612	3.21	3.91E-03	2158	CR385896	1.66	2.73E-03	2226	CR386173	1.93	2.97E-02
2091	CR385613	6.24	1.57E-03	2159	CR385899	2.19	4.27E-02	2227	CR386181	1.03	2.42E-03
2092	CR385618	4.91	2.50E-02	2160	CR385902	4.75	1.17E-02	2228	CR386185	3.65	1.46E-02
2093	CR385620	3.33	1.44E-02	2161	CR385905	3.73	5.59E-04	2229	CR386200	3.18	4.15E-03
2094	CR385624	4.95	3.60E-03	2162	CR385908	1.13	9.74E-03	2230	CR386209	2.88	5.24E-03
2095	CR385628	4.91	6.80E-03	2163	CR385910	3.84	1.66E-02	2231	CR386225	2.34	1.67E-02
2096	CR385631	3.90	8.19E-04	2164	CR385913	1.97	9.88E-03	2232	CR386240	3.64	2.37E-03
2097	CR385634	5.13	2.61E-03	2165	CR385914	6.87	1.21E-03	2233	CR386242	3.24	2.88E-02
2098	CR385638	2.10	7.66E-04	2166	CR385920	2.24	1.25E-03	2234	CR386243	4.63	1.49E-03
2099	CR385641	2.85	6.84E-03	2167	CR385924	1.66	1.05E-01	2235	CR386244	2.38	2.09E-02
2100	CR385650	4.39	4.15E-04	2168	CR385928	4.68	3.11E-03	2236	CR386308	2.66	2.77E-03
2101	CR385652	1.97	3.86E-03	2169	CR385929	2.01	2.52E-03	2237	CR386324	6.13	1.36E-05
2102	CR385653	5.45	1.90E-06	2170	CR385930	3.67	2.22E-03	2238	CR386336	3.47	1.51E-04
2103	CR385655	1.65	4.90E-02	2171	CR385934	6.04	2.17E-03	2239	CR386340	4.55	6.97E-03
2104	CR385658	1.97	3.81E-01	2172	CR385935	1.23	3.44E-02	2240	CR386342	4.37	5.67E-03
2105	CR385659	1.70	5.82E-03	2173	CR385936	4.75	3.08E-02	2241	CR386345	2.58	7.67E-03
2106	CR385668	1.47	4.91E-02	2174	CR385938	5.67	3.80E-03	2242	CR386352	2.02	4.43E-03
2107	CR385672	3.72	5.09E-03	2175	CR385940	4.81	6.87E-03	2243	CR386355	3.14	1.39E-03

2244	CR386363	2.37	7.47E-03	2312	CR386757	4.20	5.33E-04	2380	CR387042	3.17	1.13E-02
2245	CR386365	4.53	1.37E-04	2313	CR386762	3.63	2.05E-03	2381	CR387045	7.62	4.39E-04
2246	CR386366	1.66	6.89E-02	2314	CR386765	2.23	3.91E-03	2382	CR387050	4.22	2.66E-03
2247	CR386372	2.48	3.06E-03	2315	CR386768	1.66	5.41E-02	2383	CR387061	4.33	6.62E-03
2248	CR386376	4.88	3.57E-04	2316	CR386773	1.74	3.91E-02	2384	CR387073	1.15	8.79E-03
2249	CR386378	2.30	4.94E-03	2317	CR386774	2.53	7.37E-03	2385	CR387086	2.37	3.85E-02
2250	CR386380	4.95	5.07E-04	2318	CR386783	3.18	1.34E-04	2386	CR387092	1.47	3.18E-02
2251	CR386388	5.18	1.57E-03	2319	CR386786	3.28	9.68E-03	2387	CR387095	2.56	3.03E-03
2252	CR386394	1.21	2.78E-02	2320	CR386789	3.34	5.58E-03	2388	CR387099	3.40	6.25E-03
2253	CR386405	4.92	3.88E-03	2321	CR386798	4.81	6.17E-05	2389	CR387106	2.47	1.77E-04
2254	CR386409	3.31	1.87E-03	2322	CR386801	2.18	2.63E-03	2390	CR387113	2.34	1.70E-01
2255	CR386413	8.17	3.01E-03	2323	CR386804	3.52	1.51E-03	2391	CR387117	4.67	3.57E-03
2256	CR386419	3.88	2.28E-03	2324	CR386809	2.80	5.24E-03	2392	CR387119	3.38	4.76E-03
2257	CR386420	4.12	3.37E-03	2325	CR386820	4.04	2.09E-03	2393	CR387120	3.42	5.64E-04
2258	CR386421	2.55	2.20E-02	2326	CR386823	4.68	2.93E-03	2394	CR387121	1.90	4.05E-02
2259	CR386424	1.95	4.14E-03	2327	CR386824	1.06	3.29E-02	2395	CR387124	2.84	2.77E-02
2260	CR386426	2.46	6.79E-03	2328	CR386827	5.03	1.49E-02	2396	CR387133	2.44	1.15E-02
2261	CR386428	2.15	1.86E-05	2329	CR386835	2.72	1.19E-02	2397	CR387137	2.03	3.65E-03
2262	CR386429	2.83	3.24E-02	2330	CR386841	3.34	1.51E-02	2398	CR387142	6.44	8.82E-04
2263	CR386433	1.31	6.99E-03	2331	CR386846	2.14	1.66E-03	2399	CR387152	1.40	3.55E-02
2264	CR386435	2.43	6.19E-03	2332	CR386848	4.10	1.03E-02	2400	CR387153	3.10	1.21E-03
2265	CR386437	4.58	1.08E-02	2333	CR386851	3.03	1.18E-03	2401	CR387155	1.95	2.12E-02
2266	CR386442	7.09	2.87E-04	2334	CR386852	2.12	6.08E-03	2402	CR387162	1.89	2.69E-03
2267	CR386443	6.95	6.24E-03	2335	CR386856	4.17	6.79E-04	2403	CR387168	6.31	1.96E-02
2268	CR386444	3.44	2.05E-04	2336	CR386857	2.85	1.60E-03	2404	CR387169	1.83	2.75E-02
2269	CR386455	4.68	7.21E-04	2337	CR386871	2.06	6.89E-02	2405	CR387178	2.85	1.06E-04
2270	CR386460	3.06	6.30E-03	2338	CR386873	2.79	2.81E-03	2406	CR387193	8.55	8.91E-04
2271	CR386464	4.19	1.39E-03	2339	CR386876	5.64	4.17E-04	2407	CR387196	5.66	7.46E-03
2272	CR386471	3.72	2.19E-03	2340	CR386882	5.45	2.52E-03	2408	CR387197	3.15	1.12E-02
2273	CR386484	2.58	3.17E-03	2341	CR386884	1.23	8.78E-03	2409	CR387199	3.71	1.52E-03
2274	CR386485	4.88	2.26E-03	2342	CR386885	2.75	7.10E-03	2410	CR387205	3.42	5.55E-03
2275	CR386487	4.80	3.32E-04	2343	CR386889	5.02	1.25E-04	2411	CR387210	8.93	4.07E-03
2276	CR386490	3.36	9.71E-03	2344	CR386890	2.48	1.50E-03	2412	CR387211	2.95	1.08E-02
2277	CR386491	5.37	4.35E-04	2345	CR386893	3.90	1.33E-01	2413	CR387215	2.82	1.23E-02
2278	CR386496	2.29	7.28E-03	2346	CR386903	3.34	1.59E-03	2414	CR387220	3.19	1.90E-02
2279	CR386510	4.86	2.20E-03	2347	CR386911	3.39	1.30E-02	2415	CR387223	5.84	4.94E-03
2280	CR386516	1.93	1.54E-03	2348	CR386913	2.32	9.38E-03	2416	CR387225	5.63	1.17E-03
2281	CR386529	4.09	5.20E-03	2349	CR386915	4.60	8.78E-03	2417	CR387226	2.94	2.18E-02
2282	CR386530	4.00	2.36E-03	2350	CR386926	2.29	1.74E-02	2418	CR387234	1.35	1.33E-02
2283	CR386546	4.00	6.92E-03	2351	CR386929	3.60	5.11E-03	2419	CR387240	1.56	1.34E-02
2284	CR386552	2.39	1.05E-02	2352	CR386933	2.74	1.43E-03	2420	CR387244	1.99	6.87E-02
2285	CR386555	2.24	2.08E-03	2353	CR386934	3.21	1.86E-02	2421	CR387247	2.88	4.65E-03
2286	CR386556	2.80	1.07E-02	2354	CR386935	1.62	6.95E-03	2422	CR387251	1.45	1.68E-02
2287	CR386557	1.77	9.37E-02	2355	CR386937	2.30	7.05E-03	2423	CR387265	5.89	4.19E-04
2288	CR386576	4.78	2.80E-03	2356	CR386947	3.26	7.69E-03	2424	CR387268	6.17	7.12E-03
2289	CR386585	2.52	2.38E-03	2357	CR386950	1.60	2.64E-03	2425	CR387286	1.34	5.54E-03
2290	CR386588	1.86	1.55E-02	2358	CR386952	2.87	3.00E-02	2426	CR387291	5.34	4.08E-02
2291	CR386604	2.43	7.66E-03	2359	CR386960	2.15	1.98E-02	2427	CR387295	6.64	1.67E-03
2292	CR386615	2.24	8.48E-03	2360	CR386961	7.05	3.23E-03	2428	CR387301	3.69	1.21E-03
2293	CR386638	3.00	1.90E-03	2361	CR386971	4.31	8.41E-03	2429	CR387302	3.70	4.13E-03
2294	CR386653	6.08	1.84E-03	2362	CR386973	5.02	2.66E-03	2430	CR387304	4.20	8.35E-05
2295	CR386655	3.29	7.37E-03	2363	CR386975	1.34	3.51E-02	2431	CR387306	4.24	3.34E-03
2296	CR386660	2.31	7.91E-04	2364	CR386977	3.92	6.18E-03	2432	CR387307	2.63	2.18E-03
2297	CR386669	1.26	2.72E-04	2365	CR386981	5.10	1.49E-03	2433	CR387308	3.53	2.82E-01
2298	CR386676	2.72	8.77E-03	2366	CR386984	3.88	7.28E-03	2434	CR387317	3.59	1.68E-03
2299	CR386680	1.51	3.79E-02	2367	CR386992	5.03	2.53E-03	2435	CR387327	4.62	1.80E-03
2300	CR386681	1.18	1.30E-02	2368	CR386998	2.74	2.39E-02	2436	CR387328	2.78	3.71E-03
2301	CR386690	3.19	1.58E-03	2369	CR387008	1.09	8.59E-02	2437	CR387332	3.39	5.11E-03
2302	CR386695	3.33	2.53E-02	2370	CR387012	2.60	1.28E-02	2438	CR387335	2.59	1.00E-03
2303	CR386696	6.28	9.73E-03	2371	CR387013	1.21	7.95E-03	2439	CR387336	3.01	1.61E-02
2304	CR386702	5.20	6.54E-04	2372	CR387014	3.72	1.24E-02	2440	CR387342	4.81	1.93E-03
2305	CR386705	2.83	1.50E-02	2373	CR387015	4.16	2.50E-03	2441	CR387344	8.09	1.01E-02
2306	CR386722	1.22	1.45E-02	2374	CR387017	2.76	2.01E-04	2442	CR387346	3.98	2.12E-03
2307	CR386725	2.61	2.33E-03	2375	CR387023	3.57	2.71E-03	2443	CR387347	4.59	1.49E-03
2308	CR386734	2.56	1.27E-03	2376	CR387025	1.62	4.12E-02	2444	CR387348	2.50	5.39E-03
2309	CR386747	2.87	7.14E-03	2377	CR387026	4.04	1.05E-02	2445	CR387353	4.45	4.35E-05
2310	CR386750	2.77	2.62E-02	2378	CR387035	2.25	4.92E-04	2446	CR387354	1.85	1.60E-01
2311	CR386752	4.23	4.10E-03	2379	CR387036	1.86	1.58E-02	2447	CR387355	4.45	2.64E-02

2448	CR387360	2.92	1.98E-03	2516	CR387727	5.33	1.30E-05	2584	CR388579	2.98	8.78E-05
2449	CR387365	2.62	3.87E-02	2517	CR387728	3.64	7.02E-03	2585	CR388581	3.31	7.13E-03
2450	CR387368	3.29	9.40E-05	2518	CR387734	2.41	4.01E-03	2586	CR388582	1.55	4.66E-02
2451	CR387369	5.96	9.60E-04	2519	CR387735	1.55	5.11E-03	2587	CR388593	5.34	2.61E-03
2452	CR387377	3.63	1.13E-03	2520	CR387736	2.61	7.63E-03	2588	CR388595	1.31	2.37E-02
2453	CR387379	6.58	1.51E-04	2521	CR387738	3.19	3.17E-03	2589	CR388597	5.80	2.16E-03
2454	CR387391	7.26	5.69E-04	2522	CR387747	3.94	3.43E-02	2590	CR388605	2.37	6.41E-02
2455	CR387398	5.91	6.32E-04	2523	CR387748	2.22	2.47E-03	2591	CR388614	5.46	4.57E-03
2456	CR387399	2.05	6.61E-03	2524	CR387755	2.83	4.01E-02	2592	CR388624	5.52	4.36E-03
2457	CR387403	4.19	2.23E-02	2525	CR387765	2.09	1.73E-02	2593	CR388629	3.16	2.54E-02
2458	CR387441	2.22	2.08E-02	2526	CR387779	2.09	8.26E-05	2594	CR388631	1.88	1.88E-02
2459	CR387443	6.32	6.16E-03	2527	CR387781	6.49	4.64E-03	2595	CR388635	4.65	6.55E-04
2460	CR387445	2.04	2.08E-03	2528	CR387786	4.23	5.09E-03	2596	CR388640	2.26	1.28E-02
2461	CR387461	1.88	1.52E-03	2529	CR387787	2.38	3.22E-03	2597	CR388646	3.14	1.19E-02
2462	CR387463	3.16	1.39E-02	2530	CR387791	3.70	7.05E-03	2598	CR388652	3.53	6.83E-03
2463	CR387465	3.56	5.87E-04	2531	CR387796	2.39	2.51E-03	2599	CR388653	2.03	2.06E-02
2464	CR387469	4.08	5.80E-04	2532	CR387813	1.73	1.10E-01	2600	CR388662	2.95	7.97E-02
2465	CR387470	1.86	1.11E-01	2533	CR387818	1.89	2.22E-02	2601	CR388664	1.41	1.96E-03
2466	CR387471	1.56	1.89E-02	2534	CR387819	4.79	3.85E-03	2602	CR388674	4.54	1.07E-03
2467	CR387472	2.13	1.94E-03	2535	CR387822	2.81	7.41E-03	2603	CR388682	3.25	2.20E-03
2468	CR387476	3.31	1.17E-02	2536	CR387840	1.62	1.48E-02	2604	CR388687	2.14	1.02E-02
2469	CR387477	4.38	2.21E-03	2537	CR387846	2.02	3.86E-02	2605	CR388689	1.50	4.11E-03
2470	CR387481	4.56	3.86E-04	2538	CR387851	3.00	2.54E-02	2606	CR388692	1.29	8.11E-04
2471	CR387483	1.34	4.92E-03	2539	CR387852	4.78	3.63E-03	2607	CR388694	3.22	3.78E-03
2472	CR387521	1.79	4.11E-02	2540	CR387854	3.05	3.59E-03	2608	CR388698	1.19	4.76E-02
2473	CR387525	1.97	2.90E-02	2541	CR387857	2.06	6.12E-02	2609	CR388701	1.79	1.09E-03
2474	CR387547	1.60	5.76E-03	2542	CR387862	4.02	5.38E-02	2610	CR388709	3.32	2.01E-03
2475	CR387550	4.47	3.96E-03	2543	CR387864	2.67	1.21E-02	2611	CR388710	3.97	1.07E-02
2476	CR387552	2.53	5.25E-03	2544	CR387866	3.25	8.44E-04	2612	CR388711	5.87	1.57E-03
2477	CR387555	3.87	2.08E-03	2545	CR387869	1.39	2.94E-02	2613	CR388712	3.92	2.95E-04
2478	CR387564	4.44	3.21E-04	2546	CR387875	2.71	2.20E-02	2614	CR388714	1.62	3.52E-02
2479	CR387565	3.95	1.11E-03	2547	CR387887	2.19	1.02E-02	2615	CR388715	2.35	2.39E-02
2480	CR387568	3.14	1.59E-03	2548	CR387897	1.75	1.62E-02	2616	CR388720	2.04	3.10E-02
2481	CR387570	5.24	1.59E-03	2549	CR387912	3.16	2.84E-04	2617	CR388725	3.82	1.31E-02
2482	CR387571	4.36	4.05E-03	2550	CR387913	1.66	2.95E-03	2618	CR388726	1.99	6.54E-02
2483	CR387573	3.73	2.87E-03	2551	CR388424	2.43	7.25E-04	2619	CR388737	2.52	5.15E-02
2484	CR387575	4.17	2.52E-03	2552	CR388430	1.69	7.23E-02	2620	CR388740	1.95	1.64E-02
2485	CR387577	4.25	1.19E-02	2553	CR388437	3.34	2.71E-02	2621	CR388741	2.95	7.50E-03
2486	CR387579	4.15	7.44E-04	2554	CR388439	3.57	6.10E-04	2622	CR388742	4.13	3.73E-03
2487	CR387587	6.36	9.72E-05	2555	CR388442	4.09	2.96E-04	2623	CR388743	3.76	2.44E-03
2488	CR387588	3.03	2.61E-03	2556	CR388443	4.08	7.83E-04	2624	CR388744	2.31	4.56E-03
2489	CR387592	3.71	3.42E-03	2557	CR388451	3.91	8.00E-04	2625	CR388752	7.45	6.28E-04
2490	CR387597	4.92	2.53E-04	2558	CR388452	5.83	6.69E-04	2626	CR388753	2.37	6.69E-03
2491	CR387599	2.79	4.56E-04	2559	CR388455	3.51	1.05E-04	2627	CR388759	3.32	1.40E-02
2492	CR387600	3.45	3.31E-03	2560	CR388463	3.53	8.46E-04	2628	CR388765	4.15	2.09E-02
2493	CR387601	6.14	3.80E-04	2561	CR388474	2.99	2.78E-01	2629	CR388772	1.44	2.96E-02
2494	CR387603	2.26	6.41E-03	2562	CR388476	3.11	1.40E-02	2630	CR388774	5.40	1.21E-03
2495	CR387605	4.96	3.61E-03	2563	CR388479	2.94	1.73E-04	2631	CR388784	2.32	1.81E-02
2496	CR387610	5.39	6.99E-04	2564	CR388482	2.14	2.09E-02	2632	CR388792	3.59	3.74E-03
2497	CR387614	6.44	2.99E-03	2565	CR388490	3.89	3.40E-03	2633	CR388811	1.18	1.21E-02
2498	CR387626	1.86	5.59E-02	2566	CR388493	3.00	1.98E-03	2634	CR388813	4.15	1.36E-03
2499	CR387629	3.35	6.03E-03	2567	CR388494	4.82	3.22E-03	2635	CR388821	4.20	1.87E-02
2500	CR387631	2.67	5.09E-03	2568	CR388499	5.56	3.05E-03	2636	CR388825	3.21	1.11E-02
2501	CR387635	1.87	3.72E-02	2569	CR388506	2.14	2.04E-04	2637	CR388827	1.37	1.78E-02
2502	CR387636	2.70	3.18E-04	2570	CR388517	3.91	3.62E-03	2638	CR388828	4.56	4.42E-03
2503	CR387644	2.15	9.58E-03	2571	CR388518	5.42	9.47E-03	2639	CR388841	2.34	5.72E-02
2504	CR387647	4.00	4.52E-03	2572	CR388521	3.61	1.95E-03	2640	CR388842	1.74	1.46E-02
2505	CR387648	4.49	4.27E-03	2573	CR388530	1.56	3.66E-02	2641	CR388844	4.46	2.07E-04
2506	CR387653	5.89	1.48E-03	2574	CR388537	1.94	2.24E-02	2642	CR388845	2.47	5.38E-03
2507	CR387659	2.59	2.25E-03	2575	CR388544	4.49	1.70E-02	2643	CR388853	1.52	2.23E-01
2508	CR387667	5.13	5.70E-04	2576	CR388546	4.79	1.26E-03	2644	CR388862	1.30	1.61E-02
2509	CR387671	3.89	1.81E-03	2577	CR388553	3.26	1.01E-03	2645	CR388863	4.98	4.93E-03
2510	CR387693	5.26	6.36E-05	2578	CR388555	6.04	1.09E-04	2646	CR388867	2.81	1.07E-03
2511	CR387698	7.51	1.40E-03	2579	CR388561	5.13	1.96E-02	2647	CR388877	3.46	1.41E-02
2512	CR387711	4.27	1.87E-03	2580	CR388562	3.93	7.26E-04	2648	CR388884	1.90	2.39E-02
2513	CR387712	4.40	5.93E-03	2581	CR388570	4.99	5.58E-03	2649	CR388892	2.57	4.32E-04
2514	CR387720	1.95	1.19E-03	2582	CR388574	6.70	2.52E-03	2650	CR388908	5.00	7.06E-04
2515	CR387721	2.45	1.53E-02	2583	CR388576	3.11	1.83E-05	2651	CR388914	1.27	3.11E-02

2652	CR388920	3.82	4.31E-03	2720	CR389250	6.90	3.04E-03	2788	CR389576	3.64	1.67E-03
2653	CR388922	3.53	4.22E-03	2721	CR389251	1.36	2.82E-02	2789	CR389577	2.89	4.34E-03
2654	CR388923	3.35	3.11E-03	2722	CR389257	4.58	3.19E-03	2790	CR389580	2.93	3.59E-03
2655	CR388925	1.40	4.85E-04	2723	CR389259	2.74	4.07E-03	2791	CR389582	4.91	8.76E-04
2656	CR388926	1.70	1.01E-02	2724	CR389263	4.52	9.61E-03	2792	CR389587	7.36	1.90E-03
2657	CR388930	2.02	9.35E-02	2725	CR389284	4.80	6.94E-03	2793	CR389594	3.65	4.04E-03
2658	CR388933	2.55	4.79E-05	2726	CR389289	3.68	5.73E-03	2794	CR389609	4.78	6.01E-03
2659	CR388935	4.18	6.15E-03	2727	CR389310	6.15	2.11E-02	2795	CR389625	2.60	5.52E-03
2660	CR388946	5.36	2.41E-03	2728	CR389311	1.44	3.84E-02	2796	CR389630	6.59	6.52E-04
2661	CR388955	2.37	2.03E-03	2729	CR389314	8.25	1.84E-03	2797	CR389633	2.94	8.57E-03
2662	CR388956	4.13	3.16E-03	2730	CR389316	3.55	5.85E-02	2798	CR389637	1.80	2.32E-02
2663	CR388966	2.97	1.24E-02	2731	CR389319	1.62	1.59E-03	2799	CR389649	8.02	1.68E-03
2664	CR388975	5.13	5.09E-03	2732	CR389321	3.25	5.34E-04	2800	CR389659	5.21	7.83E-03
2665	CR388977	2.25	3.05E-04	2733	CR389323	2.09	1.98E-02	2801	CR389675	6.46	2.55E-03
2666	CR388978	5.27	3.05E-03	2734	CR389329	1.28	3.34E-03	2802	CR389682	2.00	1.07E-02
2667	CR388983	5.06	4.57E-03	2735	CR389335	2.18	1.88E-02	2803	CR389685	4.17	1.42E-03
2668	CR389001	1.83	1.66E-01	2736	CR389336	3.09	1.60E-03	2804	CR389692	3.02	1.77E-04
2669	CR389019	4.95	1.99E-03	2737	CR389338	1.78	5.06E-03	2805	CR389698	2.63	6.14E-03
2670	CR389024	3.84	5.13E-03	2738	CR389344	5.49	3.41E-05	2806	CR389699	2.78	1.61E-02
2671	CR389026	3.88	1.01E-02	2739	CR389347	4.04	4.79E-03	2807	CR389701	5.49	6.36E-03
2672	CR389030	3.57	3.60E-03	2740	CR389348	4.34	5.76E-03	2808	CR389707	1.86	1.20E-02
2673	CR389032	5.59	3.73E-03	2741	CR389349	2.56	1.64E-02	2809	CR389711	7.91	1.60E-03
2674	CR389045	4.79	9.97E-04	2742	CR389357	4.17	4.69E-04	2810	CR389712	2.88	7.92E-04
2675	CR389051	2.27	1.09E-02	2743	CR389362	2.77	3.34E-02	2811	CR389713	1.71	1.10E-01
2676	CR389055	3.86	3.21E-03	2744	CR389367	2.19	7.21E-03	2812	CR389714	3.87	5.67E-03
2677	CR389061	6.48	1.14E-03	2745	CR389368	6.00	3.88E-03	2813	CR389715	3.11	6.18E-03
2678	CR389063	3.11	1.84E-03	2746	CR389377	4.28	1.68E-03	2814	CR389720	1.50	1.60E-02
2679	CR389066	4.64	1.25E-03	2747	CR389378	5.40	8.01E-05	2815	CR389725	2.14	1.49E-02
2680	CR389068	2.83	2.46E-02	2748	CR389383	3.21	1.60E-02	2816	CR389730	4.89	1.47E-02
2681	CR389075	4.40	2.08E-03	2749	CR389388	2.88	5.12E-03	2817	CR389737	4.12	5.15E-03
2682	CR389082	6.02	1.11E-03	2750	CR389393	3.14	1.66E-03	2818	CR389746	2.13	2.50E-02
2683	CR389086	5.33	2.54E-03	2751	CR389400	4.29	3.26E-03	2819	CR389753	4.30	5.40E-04
2684	CR389087	3.06	1.36E-02	2752	CR389403	4.91	8.47E-03	2820	CR389754	3.65	2.48E-03
2685	CR389089	3.70	5.24E-04	2753	CR389404	2.07	4.51E-03	2821	CR389758	2.84	2.21E-02
2686	CR389095	4.17	1.32E-02	2754	CR389413	1.92	2.16E-02	2822	CR389759	2.71	2.31E-03
2687	CR389097	1.42	2.92E-02	2755	CR389414	3.93	1.42E-02	2823	CR389766	4.97	2.51E-03
2688	CR389098	1.43	8.95E-03	2756	CR389418	3.38	5.34E-03	2824	CR389768	2.82	1.20E-02
2689	CR389111	5.46	5.37E-03	2757	CR389425	5.95	4.82E-04	2825	CR389771	1.06	5.31E-02
2690	CR389112	2.04	1.21E-02	2758	CR389430	5.54	1.97E-03	2826	CR389774	4.52	2.61E-03
2691	CR389114	5.01	9.86E-04	2759	CR389444	4.10	2.93E-04	2827	CR389778	3.55	7.13E-04
2692	CR389119	6.37	7.70E-04	2760	CR389450	6.56	1.16E-03	2828	CR389783	2.92	2.01E-03
2693	CR389120	4.11	1.50E-03	2761	CR389457	4.40	1.42E-03	2829	CR389793	6.53	1.45E-03
2694	CR389123	1.65	8.70E-04	2762	CR389464	1.84	1.91E-02	2830	CR389794	3.76	2.17E-02
2695	CR389127	1.48	7.65E-03	2763	CR389466	2.73	3.69E-03	2831	CR389796	4.57	2.41E-03
2696	CR389129	4.30	2.28E-03	2764	CR389471	3.33	1.51E-04	2832	CR389800	6.97	2.11E-05
2697	CR389142	3.03	1.27E-02	2765	CR389478	9.98	1.13E-03	2833	CR389803	4.68	1.14E-02
2698	CR389147	5.06	1.34E-03	2766	CR389479	5.17	3.69E-03	2834	CR389805	4.10	1.40E-03
2699	CR389148	3.69	1.07E-02	2767	CR389481	2.52	1.46E-02	2835	CR389813	1.54	1.69E-01
2700	CR389149	5.35	3.60E-03	2768	CR389482	3.87	2.52E-04	2836	CR389814	3.23	5.06E-04
2701	CR389151	3.42	4.02E-03	2769	CR389486	2.89	1.08E-02	2837	CR389815	4.39	8.92E-04
2702	CR389152	4.82	9.78E-03	2770	CR389492	1.79	6.47E-02	2838	CR389825	3.76	2.11E-03
2703	CR389171	1.76	2.31E-02	2771	CR389493	5.93	1.12E-03	2839	CR389827	3.76	1.57E-03
2704	CR389177	1.36	1.08E-02	2772	CR389496	4.60	8.65E-03	2840	CR389828	2.55	5.28E-04
2705	CR389179	4.19	1.97E-03	2773	CR389507	2.05	9.11E-03	2841	CR389831	3.76	1.85E-02
2706	CR389181	3.18	2.39E-04	2774	CR389509	1.20	1.06E-02	2842	CR389838	2.84	2.78E-02
2707	CR389183	7.33	1.42E-03	2775	CR389513	6.37	6.09E-04	2843	CR389839	3.00	4.23E-02
2708	CR389184	2.89	6.36E-03	2776	CR389515	5.36	1.65E-03	2844	CR389843	7.15	1.01E-06
2709	CR389185	1.93	2.17E-02	2777	CR389528	3.65	3.93E-03	2845	CR389844	3.66	2.81E-04
2710	CR389187	4.80	4.31E-04	2778	CR389532	2.31	1.16E-02	2846	CR389846	2.49	2.27E-02
2711	CR389192	4.63	1.48E-03	2779	CR389539	6.33	4.81E-04	2847	CR389850	3.22	2.54E-02
2712	CR389199	3.44	3.51E-03	2780	CR389549	8.37	6.85E-03	2848	CR389851	5.20	3.46E-03
2713	CR389206	4.38	2.04E-03	2781	CR389550	2.23	5.26E-03	2849	CR389852	2.93	2.51E-01
2714	CR389207	2.71	2.47E-02	2782	CR389554	2.96	1.13E-02	2850	CR389857	4.28	8.63E-03
2715	CR389210	3.77	4.87E-03	2783	CR389559	4.72	1.56E-03	2851	CR389860	2.51	2.10E-03
2716	CR389212	4.81	7.50E-06	2784	CR389563	2.30	4.81E-03	2852	CR389863	6.63	3.60E-03
2717	CR389215	2.25	2.02E-03	2785	CR389570	3.41	1.37E-03	2853	CR389864	4.25	7.43E-04
2718	CR389229	5.93	5.63E-03	2786	CR389574	3.37	1.67E-03	2854	CR389865	1.60	4.72E-02
2719	CR389236	6.33	1.50E-02	2787	CR389575	1.85	3.77E-02	2855	CR389866	4.87	1.67E-02

2856	CR389869	4.06	1.79E-02	2924	CR390168	3.08	4.93E-02	2992	CR390457	1.08	4.50E-02
2857	CR389874	4.03	2.82E-04	2925	CR390178	3.58	3.49E-02	2993	CR390458	5.69	7.65E-03
2858	CR389876	3.15	1.14E-03	2926	CR390179	5.08	3.17E-03	2994	CR390459	5.39	4.79E-03
2859	CR389880	4.60	3.28E-03	2927	CR390184	1.44	6.24E-04	2995	CR390460	3.40	4.69E-03
2860	CR389882	5.95	2.58E-04	2928	CR390186	4.10	2.23E-03	2996	CR390470	1.56	1.40E-03
2861	CR389888	6.11	9.81E-05	2929	CR390193	3.05	2.08E-03	2997	CR390472	3.42	1.77E-03
2862	CR389894	6.99	2.66E-03	2930	CR390203	5.74	6.58E-03	2998	CR390473	2.94	1.80E-02
2863	CR389895	2.87	1.08E-03	2931	CR390204	1.87	3.53E-02	2999	CR390475	2.10	1.66E-02
2864	CR389898	4.10	3.59E-03	2932	CR390210	5.16	1.34E-03	3000	CR390485	1.66	6.53E-03
2865	CR389905	1.76	3.43E-03	2933	CR390213	5.05	4.65E-03	3001	CR390496	3.74	5.44E-03
2866	CR389908	4.92	1.43E-02	2934	CR390226	6.40	1.10E-02	3002	CR390500	5.53	1.34E-02
2867	CR389909	4.90	3.51E-04	2935	CR390231	5.88	2.82E-03	3003	CR390508	5.62	5.18E-04
2868	CR389914	2.19	4.74E-02	2936	CR390232	3.59	3.51E-03	3004	CR390509	2.25	7.27E-04
2869	CR389920	1.20	7.24E-03	2937	CR390233	5.36	4.19E-03	3005	CR390516	1.62	9.54E-03
2870	CR389924	1.56	2.72E-02	2938	CR390237	1.33	8.99E-03	3006	CR390521	5.44	1.20E-03
2871	CR389927	2.46	3.21E-02	2939	CR390238	2.47	9.42E-03	3007	CR390532	3.37	3.22E-03
2872	CR389930	3.21	8.01E-02	2940	CR390239	5.43	7.03E-03	3008	CR390533	6.77	1.62E-02
2873	CR389934	3.77	1.82E-03	2941	CR390243	1.53	5.09E-04	3009	CR390536	3.90	1.14E-03
2874	CR389937	3.92	1.08E-03	2942	CR390247	1.58	1.69E-03	3010	CR390537	2.84	5.70E-04
2875	CR389939	5.16	1.54E-03	2943	CR390253	3.72	1.26E-02	3011	CR390544	3.45	6.29E-03
2876	CR389941	2.44	9.61E-02	2944	CR390258	3.40	7.09E-04	3012	CR390546	1.16	6.08E-02
2877	CR389946	1.29	2.90E-02	2945	CR390261	2.33	1.00E-03	3013	CR390547	2.51	6.40E-04
2878	CR389951	4.29	1.07E-03	2946	CR390263	5.04	4.54E-03	3014	CR390548	1.98	6.75E-03
2879	CR389957	6.74	3.18E-03	2947	CR390266	3.65	3.15E-04	3015	CR390550	2.85	2.16E-02
2880	CR389959	2.37	1.78E-02	2948	CR390278	2.47	4.41E-02	3016	CR390551	1.64	3.88E-02
2881	CR389964	3.10	1.12E-02	2949	CR390283	4.94	2.38E-05	3017	CR390552	6.13	2.01E-03
2882	CR389966	4.84	5.42E-04	2950	CR390285	2.17	1.60E-02	3018	CR390554	2.35	6.14E-02
2883	CR389972	4.39	7.82E-03	2951	CR390289	3.89	9.23E-04	3019	CR390560	4.21	4.65E-03
2884	CR389983	4.58	1.02E-02	2952	CR390290	1.72	1.10E-02	3020	CR390567	4.69	1.50E-03
2885	CR389986	2.09	3.31E-02	2953	CR390293	3.39	2.88E-03	3021	CR390569	3.58	4.21E-04
2886	CR389989	3.26	1.07E-04	2954	CR390294	4.17	6.01E-03	3022	CR390570	2.06	7.68E-02
2887	CR389997	1.96	2.47E-02	2955	CR390295	2.08	1.07E-02	3023	CR390575	4.78	1.57E-03
2888	CR389998	5.27	1.22E-03	2956	CR390300	3.53	6.44E-03	3024	CR390576	2.97	2.47E-03
2889	CR390006	2.91	2.41E-02	2957	CR390301	7.45	3.94E-05	3025	CR390579	3.25	4.12E-02
2890	CR390007	2.77	8.82E-03	2958	CR390303	3.40	2.64E-03	3026	CR390581	3.12	1.41E-03
2891	CR390014	2.23	3.60E-03	2959	CR390314	2.86	1.04E-02	3027	CR390583	1.42	3.90E-02
2892	CR390015	4.78	2.17E-02	2960	CR390335	1.27	2.12E-02	3028	CR390594	3.32	7.07E-03
2893	CR390017	3.17	4.46E-04	2961	CR390344	3.44	5.88E-03	3029	CR390595	5.15	3.18E-03
2894	CR390018	4.51	4.44E-05	2962	CR390349	2.08	1.98E-02	3030	CR390596	4.14	1.46E-02
2895	CR390027	5.51	3.24E-03	2963	CR390351	3.80	3.98E-03	3031	CR390597	2.77	1.40E-02
2896	CR390030	5.53	1.36E-02	2964	CR390352	3.09	1.44E-02	3032	CR390602	1.69	1.57E-02
2897	CR390032	3.97	1.56E-04	2965	CR390359	2.90	2.47E-02	3033	CR390605	5.36	1.75E-03
2898	CR390035	3.63	2.12E-02	2966	CR390376	4.10	1.02E-02	3034	CR390613	4.87	6.71E-03
2899	CR390037	3.39	3.27E-03	2967	CR390382	2.31	1.39E-02	3035	CR390614	5.95	1.14E-02
2900	CR390038	1.85	3.90E-03	2968	CR390384	1.44	6.67E-04	3036	CR390620	1.78	1.37E-01
2901	CR390040	1.63	7.73E-02	2969	CR390385	1.63	2.04E-03	3037	CR390622	5.76	1.22E-04
2902	CR390041	6.19	5.59E-04	2970	CR390387	1.55	1.71E-03	3038	CR390630	1.16	1.39E-02
2903	CR390045	4.18	9.16E-03	2971	CR390398	4.99	2.60E-03	3039	CR390645	2.98	3.00E-03
2904	CR390047	4.18	8.15E-03	2972	CR390402	1.76	1.79E-02	3040	CR390650	1.38	4.25E-02
2905	CR390050	2.91	1.41E-02	2973	CR390403	3.36	5.17E-03	3041	CR390656	5.98	1.43E-02
2906	CR390054	2.46	1.08E-02	2974	CR390405	2.93	2.65E-04	3042	CR390663	6.21	3.13E-03
2907	CR390056	3.13	6.72E-03	2975	CR390406	5.11	1.02E-03	3043	CR390665	1.62	2.69E-02
2908	CR390058	4.81	1.02E-03	2976	CR390409	5.32	1.67E-03	3044	CR390678	2.93	6.61E-04
2909	CR390063	3.73	5.29E-04	2977	CR390410	3.13	2.42E-03	3045	CR390683	3.58	3.04E-04
2910	CR390074	5.51	4.38E-03	2978	CR390413	5.97	2.12E-03	3046	CR390694	2.12	4.74E-03
2911	CR390082	4.72	4.69E-03	2979	CR390416	5.63	3.39E-03	3047	CR390705	2.61	2.18E-02
2912	CR390084	3.32	7.35E-03	2980	CR390419	3.32	2.64E-03	3048	CR390713	2.13	2.27E-03
2913	CR390086	5.20	1.02E-02	2981	CR390423	2.29	6.18E-03	3049	CR390714	4.99	2.97E-04
2914	CR390089	1.27	3.21E-02	2982	CR390429	4.38	1.45E-03	3050	CR390715	4.44	2.62E-03
2915	CR390091	3.57	2.83E-02	2983	CR390431	2.70	5.94E-02	3051	CR390716	2.74	1.33E-02
2916	CR390095	3.44	2.62E-03	2984	CR390433	2.26	6.82E-03	3052	CR390724	6.48	5.52E-03
2917	CR390101	3.48	2.07E-03	2985	CR390437	2.39	8.36E-04	3053	CR390725	2.67	1.01E-04
2918	CR390102	1.98	1.53E-04	2986	CR390438	3.28	4.01E-03	3054	CR390728	6.00	2.16E-04
2919	CR390108	2.97	2.75E-02	2987	CR390442	4.73	1.53E-03	3055	CR390729	4.40	7.07E-03
2920	CR390129	4.45	1.33E-02	2988	CR390444	6.41	5.04E-03	3056	CR390733	3.78	6.54E-03
2921	CR390135	3.60	4.82E-03	2989	CR390448	2.61	2.90E-02	3057	CR390734	3.44	5.65E-03
2922	CR390158	5.00	5.01E-05	2990	CR390449	1.22	7.35E-03	3058	CR390735	3.08	4.45E-03
2923	CR390159	1.95	1.84E-02	2991	CR390451	6.52	1.47E-02	3059	CR390737	5.53	1.70E-03

3060	CR390741	1.69	5.58E-03	3128	CR391019	3.62	4.27E-04	3196	CR391235	2.06	3.30E-02
3061	CR390744	1.45	1.87E-02	3129	CR391020	2.12	1.54E-02	3197	CR391237	3.73	6.33E-04
3062	CR390745	4.69	2.07E-02	3130	CR391021	4.32	2.52E-02	3198	CR391238	4.20	2.06E-02
3063	CR390746	2.02	5.17E-02	3131	CR391023	6.58	7.66E-04	3199	CR391244	3.62	1.09E-03
3064	CR390747	3.33	1.38E-02	3132	CR391027	1.75	3.33E-02	3200	CR391246	6.09	6.16E-04
3065	CR390750	4.14	1.46E-03	3133	CR391029	7.60	3.95E-03	3201	CR391247	4.60	6.25E-03
3066	CR390755	2.41	3.45E-02	3134	CR391030	3.71	6.34E-03	3202	CR391248	5.44	3.82E-03
3067	CR390756	3.10	2.15E-03	3135	CR391031	3.29	1.64E-02	3203	CR391252	3.61	3.12E-03
3068	CR390765	4.39	1.65E-03	3136	CR391035	3.86	2.23E-03	3204	CR391258	1.14	1.19E-03
3069	CR390782	6.38	1.16E-03	3137	CR391041	5.67	5.00E-04	3205	CR391259	4.70	5.99E-03
3070	CR390787	4.45	6.62E-03	3138	CR391047	4.75	1.02E-02	3206	CR391261	2.78	7.19E-03
3071	CR390789	1.82	2.56E-02	3139	CR391053	7.24	6.37E-04	3207	CR391265	4.92	2.26E-04
3072	CR390790	2.66	2.74E-02	3140	CR391056	6.83	3.46E-04	3208	CR391268	6.64	4.32E-03
3073	CR390792	1.78	2.89E-02	3141	CR391061	5.04	2.47E-04	3209	CR391272	1.59	3.68E-02
3074	CR390796	1.53	1.22E-02	3142	CR391063	2.78	4.92E-03	3210	CR391282	7.11	8.94E-05
3075	CR390801	6.03	3.75E-04	3143	CR391068	4.58	4.27E-03	3211	CR391283	4.30	1.26E-03
3076	CR390802	1.91	8.10E-03	3144	CR391071	1.96	2.71E-02	3212	CR391287	3.91	4.24E-02
3077	CR390810	1.36	3.07E-02	3145	CR391075	6.19	4.74E-03	3213	CR391289	5.01	1.58E-04
3078	CR390812	3.64	6.91E-03	3146	CR391080	1.79	5.67E-04	3214	CR391300	1.17	2.46E-03
3079	CR390824	1.17	2.82E-02	3147	CR391081	6.14	1.62E-03	3215	CR391303	4.83	4.53E-04
3080	CR390826	1.93	9.85E-03	3148	CR391087	3.66	2.64E-03	3216	CR391306	5.03	9.83E-02
3081	CR390829	1.81	3.93E-02	3149	CR391089	5.91	1.61E-04	3217	CR391312	5.28	2.84E-03
3082	CR390832	2.23	8.32E-03	3150	CR391093	3.52	1.73E-02	3218	CR391313	4.78	1.53E-04
3083	CR390838	5.48	2.87E-04	3151	CR391098	3.70	2.40E-03	3219	CR391314	2.48	9.73E-03
3084	CR390839	5.02	6.15E-03	3152	CR391100	1.93	7.15E-02	3220	CR391318	4.29	4.14E-03
3085	CR390845	2.16	5.62E-02	3153	CR391105	3.65	2.79E-03	3221	CR391319	5.19	6.95E-03
3086	CR390846	5.86	1.66E-03	3154	CR391106	3.46	2.24E-03	3222	CR391320	1.10	2.97E-03
3087	CR390847	4.99	6.23E-03	3155	CR391113	4.38	6.41E-03	3223	CR391321	2.95	4.75E-03
3088	CR390849	4.52	3.45E-03	3156	CR391115	4.21	4.42E-03	3224	CR391329	4.33	1.37E-03
3089	CR390854	4.87	6.23E-03	3157	CR391119	6.45	1.17E-05	3225	CR391337	3.25	1.42E-05
3090	CR390860	4.60	7.94E-04	3158	CR391121	1.50	1.82E-02	3226	CR391339	5.54	6.41E-04
3091	CR390864	5.86	2.02E-03	3159	CR391123	5.91	3.43E-03	3227	CR391342	2.97	5.46E-04
3092	CR390866	2.15	3.61E-02	3160	CR391124	6.45	8.64E-05	3228	CR391343	1.28	3.50E-02
3093	CR390868	3.96	1.35E-04	3161	CR391125	3.11	1.09E-02	3229	CR391345	2.00	3.26E-02
3094	CR390871	1.52	1.26E-02	3162	CR391126	2.61	7.86E-03	3230	CR391346	5.94	1.52E-03
3095	CR390874	5.40	5.98E-04	3163	CR391128	4.56	3.66E-03	3231	CR391348	3.96	4.01E-03
3096	CR390878	2.41	3.36E-02	3164	CR391131	1.52	1.55E-02	3232	CR391349	6.19	9.40E-04
3097	CR390880	2.44	1.13E-02	3165	CR391139	6.56	8.88E-05	3233	CR391352	5.98	1.41E-03
3098	CR390881	3.67	5.19E-03	3166	CR391141	3.76	3.72E-04	3234	CR391357	1.42	7.21E-03
3099	CR390883	2.74	2.09E-02	3167	CR391143	5.21	1.44E-02	3235	CR391358	6.38	1.10E-02
3100	CR390887	4.98	9.56E-05	3168	CR391147	1.68	8.98E-03	3236	CR391359	3.49	1.97E-02
3101	CR390889	2.62	1.09E-03	3169	CR391149	4.88	6.72E-04	3237	CR391362	4.45	2.37E-02
3102	CR390895	4.99	1.84E-03	3170	CR391150	3.84	1.44E-02	3238	CR391363	7.18	1.43E-03
3103	CR390896	1.52	4.18E-02	3171	CR391158	3.52	1.72E-03	3239	CR391364	3.48	1.74E-03
3104	CR390904	3.61	7.14E-04	3172	CR391162	3.23	9.98E-03	3240	CR391370	5.45	4.87E-05
3105	CR390907	2.77	7.35E-03	3173	CR391163	2.39	5.80E-03	3241	CR391371	6.42	1.05E-02
3106	CR390908	3.69	1.32E-02	3174	CR391164	5.93	2.08E-04	3242	CR391373	2.83	9.74E-03
3107	CR390917	3.24	1.39E-02	3175	CR391173	5.42	2.73E-02	3243	CR391376	5.60	2.51E-04
3108	CR390921	3.65	1.44E-02	3176	CR391177	4.90	1.11E-03	3244	CR391378	6.00	1.51E-05
3109	CR390922	2.23	1.57E-02	3177	CR391179	4.29	1.42E-02	3245	CR391379	4.32	2.19E-03
3110	CR390928	2.81	2.17E-02	3178	CR391185	3.76	9.41E-04	3246	CR391381	2.27	8.33E-03
3111	CR390933	1.24	1.30E-02	3179	CR391186	7.18	1.34E-03	3247	CR391382	2.10	7.49E-03
3112	CR390948	2.72	6.19E-04	3180	CR391190	4.26	1.06E-04	3248	CR391383	4.07	1.11E-03
3113	CR390957	3.00	2.52E-02	3181	CR391192	4.10	4.68E-03	3249	CR391404	1.69	1.02E-03
3114	CR390963	2.40	3.64E-01	3182	CR391197	1.39	2.65E-02	3250	CR391416	1.26	4.64E-02
3115	CR390968	2.22	2.43E-03	3183	CR391199	4.87	1.49E-03	3251	CR391424	1.11	1.58E-02
3116	CR390971	4.65	6.14E-03	3184	CR391200	5.95	2.84E-04	3252	CR391425	2.96	2.07E-03
3117	CR390972	3.48	1.52E-03	3185	CR391203	4.19	2.41E-02	3253	CR391431	2.85	2.32E-02
3118	CR390975	1.88	3.13E-02	3186	CR391206	1.90	1.27E-03	3254	CR391433	3.08	2.26E-03
3119	CR390986	2.77	5.05E-03	3187	CR391207	3.45	4.57E-03	3255	CR391438	1.16	4.47E-02
3120	CR390994	4.62	3.17E-03	3188	CR391211	5.75	8.05E-04	3256	CR391441	6.06	7.57E-03
3121	CR391003	1.40	2.26E-02	3189	CR391217	4.68	4.26E-03	3257	CR391458	1.49	1.86E-02
3122	CR391004	6.34	4.33E-03	3190	CR391221	4.74	3.18E-03	3258	CR391466	2.50	3.69E-02
3123	CR391005	3.09	8.71E-03	3191	CR391225	2.06	9.10E-04	3259	CR391483	2.15	5.59E-03
3124	CR391008	6.66	8.88E-04	3192	CR391226	1.15	4.45E-02	3260	CR391494	1.73	6.25E-03
3125	CR391014	2.11	2.32E-03	3193	CR391227	6.03	2.34E-03	3261	CR391499	5.56	7.69E-04
3126	CR391015	1.44	4.23E-02	3194	CR391228	3.25	1.97E-02	3262	CR391502	3.92	8.03E-03
3127	CR391017	2.68	1.14E-02	3195	CR391229	3.34	4.67E-04	3263	CR391511	2.93	1.35E-02

3264	CR391515	1.41	4.94E-02	3332	CR405847	5.05	7.17E-04	3400	CR406195	5.01	2.80E-03
3265	CR391521	4.12	8.21E-04	3333	CR405853	3.54	1.57E-03	3401	CR406201	3.22	5.08E-03
3266	CR391528	1.94	5.38E-03	3334	CR405857	2.82	5.09E-03	3402	CR406205	6.92	2.26E-04
3267	CR391551	2.08	2.51E-02	3335	CR405859	4.31	3.75E-03	3403	CR406224	3.18	8.85E-03
3268	CR391557	8.01	4.18E-03	3336	CR405864	2.79	2.46E-03	3404	CR406228	4.04	1.61E-03
3269	CR391558	1.54	1.87E-02	3337	CR405870	6.04	9.39E-04	3405	CR406233	2.13	1.70E-02
3270	CR391559	4.00	1.43E-02	3338	CR405872	1.89	4.34E-03	3406	CR406245	2.69	9.06E-03
3271	CR391575	1.95	1.71E-02	3339	CR405876	1.79	3.39E-02	3407	CR406274	5.68	2.97E-04
3272	CR391577	1.72	2.80E-02	3340	CR405877	4.09	4.92E-04	3408	CR406285	6.76	8.18E-02
3273	CR391582	4.85	5.86E-03	3341	CR405878	4.12	1.08E-02	3409	CR406295	1.93	4.73E-04
3274	CR391583	4.45	2.26E-03	3342	CR405880	6.78	6.43E-03	3410	CR406298	2.03	3.92E-02
3275	CR391587	3.23	9.15E-03	3343	CR405882	5.25	2.21E-03	3411	CR406300	1.79	3.19E-03
3276	CR391589	5.80	1.83E-03	3344	CR405883	3.94	1.52E-02	3412	CR406317	4.14	1.00E-04
3277	CR391590	1.99	4.27E-02	3345	CR405885	4.27	2.55E-02	3413	CR406320	1.40	2.56E-02
3278	CR391594	4.71	2.87E-03	3346	CR405889	3.54	1.15E-02	3414	CR406327	2.50	6.81E-03
3279	CR391599	1.09	8.49E-03	3347	CR405891	4.38	5.88E-03	3415	CR406328	2.80	1.98E-02
3280	CR391601	2.90	2.16E-03	3348	CR405894	5.56	8.40E-04	3416	CR406351	1.43	7.51E-03
3281	CR391602	9.32	1.43E-03	3349	CR405897	4.98	2.61E-05	3417	CR406358	3.86	2.17E-02
3282	CR391606	1.43	3.70E-02	3350	CR405898	4.16	1.83E-04	3418	CR406361	5.99	4.96E-04
3283	CR391610	5.96	4.58E-03	3351	CR405900	5.47	6.01E-03	3419	CR406364	5.76	8.93E-04
3284	CR391612	1.27	6.77E-03	3352	CR405901	5.64	8.76E-03	3420	CR406371	5.70	1.82E-03
3285	CR391630	1.45	7.75E-02	3353	CR405904	2.62	2.34E-02	3421	CR406374	3.81	1.62E-03
3286	CR391647	4.21	9.11E-04	3354	CR405907	2.68	3.47E-02	3422	CR406379	2.83	1.40E-02
3287	CR391650	1.52	3.75E-03	3355	CR405914	4.27	1.78E-03	3423	CR406380	2.13	7.47E-03
3288	CR391655	4.81	4.06E-03	3356	CR405916	4.84	3.67E-05	3424	CR406383	3.91	7.00E-03
3289	CR391658	1.37	1.61E-02	3357	CR405918	4.05	3.49E-03	3425	CR406388	2.84	3.18E-03
3290	CR391665	5.18	3.03E-03	3358	CR405919	1.13	6.05E-03	3426	CR406391	3.42	8.72E-04
3291	CR391672	1.59	5.14E-02	3359	CR405930	3.67	4.69E-03	3427	CR406392	1.13	1.85E-02
3292	CR391673	1.42	2.92E-02	3360	CR405931	6.38	9.90E-04	3428	CR406401	3.21	5.94E-04
3293	CR391674	3.07	1.04E-02	3361	CR405933	2.85	1.03E-03	3429	CR406417	3.67	1.43E-02
3294	CR391683	2.87	7.25E-03	3362	CR405943	4.63	3.27E-03	3430	CR406420	3.13	2.93E-03
3295	CR391685	5.21	9.05E-04	3363	CR405945	4.66	1.07E-02	3431	CR406421	1.85	6.63E-04
3296	CR391688	4.00	4.01E-03	3364	CR405949	6.45	3.51E-03	3432	CR406422	2.73	2.71E-02
3297	CR391691	5.56	7.09E-04	3365	CR405950	1.77	2.54E-03	3433	CR406423	3.10	6.07E-03
3298	CR391692	3.04	8.89E-03	3366	CR405951	5.94	8.57E-04	3434	CR406424	3.29	4.92E-03
3299	CR391693	4.20	2.35E-03	3367	CR405955	4.34	1.07E-03	3435	CR406427	3.52	1.85E-02
3300	CR391697	3.34	1.31E-02	3368	CR405959	4.99	6.47E-04	3436	CR406432	4.46	1.87E-03
3301	CR391699	3.94	1.52E-04	3369	CR405964	4.04	7.54E-03	3437	CR406468	4.45	7.09E-03
3302	CR391700	4.36	9.81E-03	3370	CR405975	3.05	1.78E-03	3438	CR406472	2.38	1.41E-03
3303	CR391707	2.45	3.70E-02	3371	CR405979	5.69	2.34E-03	3439	CR406476	2.19	6.42E-03
3304	CR391712	4.26	1.67E-02	3372	CR405983	4.23	2.88E-03	3440	CR406477	1.22	1.43E-02
3305	CR391722	3.47	5.18E-03	3373	CR405985	1.16	1.99E-02	3441	CR406515	3.76	5.33E-03
3306	CR391728	1.99	8.63E-03	3374	CR405992	1.51	4.67E-02	3442	CR406517	6.12	5.68E-06
3307	CR391732	2.72	1.10E-02	3375	CR405995	5.08	1.36E-03	3443	CR406522	6.57	1.25E-03
3308	CR391738	3.63	7.53E-04	3376	CR406005	2.67	1.90E-02	3444	CR406528	2.89	3.14E-02
3309	CR391740	5.67	1.74E-04	3377	CR406012	1.93	1.90E-03	3445	CR406529	5.53	2.26E-03
3310	CR391741	1.68	5.05E-03	3378	CR406023	4.79	9.37E-03	3446	CR406536	3.05	1.55E-02
3311	CR391742	1.79	5.42E-03	3379	CR406027	3.77	1.66E-03	3447	CR406540	3.22	3.30E-02
3312	CR391743	1.28	2.99E-02	3380	CR406032	3.19	8.83E-03	3448	CR406545	3.42	9.44E-04
3313	CR391744	3.18	1.22E-03	3381	CR406034	8.48	2.29E-03	3449	CR406549	2.14	3.20E-03
3314	CR391750	1.87	1.38E-02	3382	CR406035	3.27	9.31E-03	3450	CR406551	6.03	4.42E-04
3315	CR391761	4.49	2.04E-03	3383	CR406060	3.09	4.98E-03	3451	CR406552	2.03	7.09E-03
3316	CR391762	2.23	1.65E-04	3384	CR406085	3.47	1.95E-03	3452	CR406574	5.15	3.44E-04
3317	CR405726	6.82	4.50E-03	3385	CR406091	4.94	4.19E-02	3453	CR406576	2.81	7.30E-03
3318	CR405736	5.04	1.14E-03	3386	CR406102	2.25	2.75E-03	3454	CR406579	5.20	3.14E-04
3319	CR405739	1.64	6.23E-03	3387	CR406106	2.57	6.58E-03	3455	CR406585	1.53	6.02E-02
3320	CR405746	7.89	3.20E-04	3388	CR406117	5.43	5.29E-03	3456	CR406587	1.91	3.05E-03
3321	CR405750	2.92	2.07E-05	3389	CR406118	5.53	1.39E-03	3457	CR406589	2.51	1.56E-02
3322	CR405755	2.90	8.30E-03	3390	CR406135	1.71	1.42E-02	3458	CR406593	2.78	3.03E-03
3323	CR405767	2.30	2.60E-03	3391	CR406145	2.73	4.69E-03	3459	CR406597	7.64	1.12E-04
3324	CR405769	1.87	1.08E-03	3392	CR406159	5.76	4.54E-03	3460	CR406602	6.41	5.51E-03
3325	CR405785	3.32	1.08E-01	3393	CR406171	2.14	1.43E-03	3461	CR406611	4.94	1.53E-03
3326	CR405799	1.71	1.72E-02	3394	CR406172	3.79	8.75E-03	3462	CR406613	4.70	1.95E-03
3327	CR405809	1.57	2.60E-02	3395	CR406174	3.37	6.63E-03	3463	CR406620	1.32	8.77E-03
3328	CR405812	4.60	4.27E-03	3396	CR406186	4.87	3.25E-03	3464	CR406624	3.80	2.62E-02
3329	CR405822	1.76	8.17E-03	3397	CR406187	2.89	2.63E-02	3465	CR406638	1.96	2.93E-04
3330	CR405838	3.85	8.24E-03	3398	CR406188	6.63	6.83E-05	3466	CR406640	3.63	8.85E-03
3331	CR405845	2.47	4.74E-03	3399	CR406189	2.82	6.72E-03	3467	CR406647	5.45	8.62E-04

3468	CR406654	2.66	8.05E-04	3536	CR406929	3.95	6.61E-03	3604	CR407204	5.11	1.02E-02
3469	CR406655	3.60	1.43E-03	3537	CR406933	5.54	3.51E-04	3605	CR407206	2.55	2.80E-03
3470	CR406661	2.52	2.40E-02	3538	CR406944	3.81	6.65E-02	3606	CR407212	3.54	3.33E-03
3471	CR406662	3.14	1.07E-03	3539	CR406947	2.57	3.28E-02	3607	CR407216	7.42	5.73E-04
3472	CR406666	2.45	4.71E-03	3540	CR406949	1.40	5.03E-02	3608	CR407219	3.20	1.17E-03
3473	CR406669	1.69	1.97E-02	3541	CR406955	6.08	4.22E-03	3609	CR407223	2.31	5.44E-03
3474	CR406670	1.83	3.05E-03	3542	CR406963	4.52	1.41E-03	3610	CR407228	2.97	7.95E-03
3475	CR406673	2.44	7.14E-02	3543	CR406969	4.03	1.23E-02	3611	CR407231	1.81	2.27E-03
3476	CR406674	3.98	2.23E-03	3544	CR406970	4.71	8.81E-03	3612	CR407236	1.84	4.68E-03
3477	CR406675	1.23	6.73E-02	3545	CR406972	3.89	6.64E-04	3613	CR407249	3.15	3.84E-03
3478	CR406677	2.68	1.95E-02	3546	CR406976	5.04	4.01E-03	3614	CR407253	2.63	5.41E-03
3479	CR406682	2.13	1.46E-02	3547	CR406977	3.34	1.70E-02	3615	CR407255	1.39	3.67E-02
3480	CR406690	1.65	8.79E-03	3548	CR406980	3.79	5.35E-03	3616	CR407268	1.37	7.75E-02
3481	CR406694	2.22	6.58E-03	3549	CR406981	5.37	7.50E-02	3617	CR407295	2.72	1.07E-02
3482	CR406699	1.68	4.35E-03	3550	CR406985	2.63	5.57E-03	3618	CR407299	3.58	2.10E-02
3483	CR406700	1.76	3.27E-03	3551	CR406988	4.08	7.91E-03	3619	CR407311	3.98	1.19E-03
3484	CR406709	2.25	8.48E-02	3552	CR406989	5.79	6.84E-03	3620	CR407314	1.73	2.90E-03
3485	CR406712	1.71	1.47E-02	3553	CR406990	4.59	3.16E-03	3621	CR407317	1.45	1.13E-02
3486	CR406713	3.61	8.17E-03	3554	CR406994	1.29	5.05E-02	3622	CR407320	1.34	2.05E-04
3487	CR406718	1.50	2.35E-02	3555	CR406996	2.33	1.31E-03	3623	CR407324	3.32	8.40E-03
3488	CR406723	4.82	2.64E-03	3556	CR406998	2.67	6.66E-03	3624	CR407327	3.55	1.74E-03
3489	CR406734	1.25	3.35E-02	3557	CR407002	1.50	4.83E-02	3625	CR407329	5.00	1.95E-03
3490	CR406735	3.38	4.07E-04	3558	CR407003	2.81	1.28E-03	3626	CR407331	4.05	8.06E-03
3491	CR406736	2.66	6.58E-03	3559	CR407005	10.56	8.66E-04	3627	CR407337	6.71	1.37E-03
3492	CR406739	4.99	4.10E-03	3560	CR407008	3.22	1.85E-03	3628	CR407349	4.96	8.27E-04
3493	CR406740	1.20	2.74E-02	3561	CR407010	4.04	4.87E-03	3629	CR407367	2.52	5.27E-04
3494	CR406747	1.65	4.20E-02	3562	CR407011	4.94	1.37E-02	3630	CR407371	1.15	2.56E-01
3495	CR406750	3.59	3.84E-04	3563	CR407013	2.64	7.72E-03	3631	CR407372	2.89	5.37E-02
3496	CR406753	1.76	2.86E-03	3564	CR407017	3.86	2.03E-03	3632	CR407373	3.83	1.89E-03
3497	CR406754	5.20	6.64E-03	3565	CR407025	3.89	1.43E-03	3633	CR407381	2.37	1.41E-03
3498	CR406756	3.93	1.36E-02	3566	CR407027	3.84	2.15E-03	3634	CR407382	1.72	1.11E-01
3499	CR406760	5.96	2.81E-03	3567	CR407029	1.61	4.69E-02	3635	CR407394	2.79	3.58E-03
3500	CR406761	1.79	2.21E-03	3568	CR407030	5.17	3.98E-03	3636	CR407395	4.66	4.68E-03
3501	CR406764	1.60	4.72E-03	3569	CR407033	4.48	7.42E-04	3637	CR407397	2.74	1.49E-02
3502	CR406765	4.73	3.63E-03	3570	CR407034	3.02	2.10E-03	3638	CR407398	4.52	3.85E-03
3503	CR406769	1.46	1.69E-05	3571	CR407035	4.45	4.00E-03	3639	CR407402	1.73	8.39E-04
3504	CR406785	4.16	1.10E-03	3572	CR407036	3.67	2.80E-03	3640	CR407404	3.41	1.13E-02
3505	CR406787	7.94	4.90E-03	3573	CR407037	5.49	6.01E-04	3641	CR407407	2.71	4.27E-03
3506	CR406791	1.48	8.17E-03	3574	CR407043	4.83	5.75E-03	3642	CR407412	6.77	8.04E-04
3507	CR406793	3.19	5.81E-03	3575	CR407047	1.90	1.00E-02	3643	CR407417	1.50	4.09E-03
3508	CR406794	1.91	8.54E-03	3576	CR407062	4.03	3.87E-04	3644	CR407422	2.35	1.66E-02
3509	CR406802	1.41	2.28E-02	3577	CR407074	1.16	1.12E-02	3645	CR407423	8.67	1.32E-04
3510	CR406814	4.04	6.35E-03	3578	CR407086	4.91	3.31E-03	3646	CR407425	4.33	5.97E-04
3511	CR406817	1.62	4.80E-03	3579	CR407090	1.91	1.78E-02	3647	CR407434	4.74	7.85E-04
3512	CR406828	3.48	7.62E-03	3580	CR407098	1.26	1.02E-02	3648	CR407435	1.57	3.44E-02
3513	CR406830	3.05	1.01E-02	3581	CR407110	2.60	4.70E-04	3649	CR407436	1.71	6.94E-02
3514	CR406834	2.42	3.84E-03	3582	CR407112	5.53	1.20E-05	3650	CR407448	4.82	8.16E-04
3515	CR406842	3.08	2.71E-03	3583	CR407117	4.79	8.87E-03	3651	CR407449	2.10	6.57E-02
3516	CR406854	2.18	2.30E-02	3584	CR407118	3.31	1.55E-04	3652	CR407453	6.26	1.27E-02
3517	CR406856	5.91	7.33E-04	3585	CR407119	2.01	1.46E-02	3653	CR407471	2.23	1.98E-02
3518	CR406863	2.10	5.18E-03	3586	CR407125	3.23	1.04E-02	3654	CR407514	4.18	2.75E-03
3519	CR406871	6.80	2.44E-04	3587	CR407131	2.44	2.39E-02	3655	CR407518	2.04	4.49E-02
3520	CR406875	1.60	1.89E-03	3588	CR407136	2.25	6.54E-02	3656	CR407519	5.48	1.15E-02
3521	CR406881	2.59	2.33E-03	3589	CR407138	3.94	6.77E-04	3657	CR407520	2.41	2.65E-02
3522	CR406882	2.53	5.22E-03	3590	CR407141	4.15	5.55E-03	3658	CR407522	5.01	6.55E-05
3523	CR406885	2.51	3.55E-02	3591	CR407143	1.65	6.81E-02	3659	CR407523	5.34	1.31E-03
3524	CR406889	2.98	7.77E-02	3592	CR407145	4.68	8.96E-03	3660	CR407524	2.59	3.14E-02
3525	CR406892	3.25	8.24E-03	3593	CR407147	2.28	2.56E-03	3661	CR407530	1.89	2.22E-02
3526	CR406893	3.32	1.63E-03	3594	CR407149	2.93	1.92E-02	3662	CR407535	6.54	5.00E-03
3527	CR406898	4.70	4.78E-04	3595	CR407150	4.57	1.88E-03	3663	CR407539	2.98	3.07E-03
3528	CR406901	3.85	1.55E-03	3596	CR407159	3.39	1.20E-04	3664	CR407541	3.83	2.14E-03
3529	CR406904	6.26	5.66E-03	3597	CR407162	1.50	1.13E-02	3665	CR522887	2.25	5.60E-02
3530	CR406908	4.67	4.28E-03	3598	CR407175	2.88	3.98E-02	3666	CR522896	1.64	1.23E-02
3531	CR406914	5.49	3.66E-03	3599	CR407177	3.07	8.45E-03	3667	CR522898	1.79	6.58E-04
3532	CR406917	4.26	5.22E-04	3600	CR407185	1.72	2.48E-03	3668	CR522914	1.82	1.40E-01
3533	CR406919	5.18	3.49E-03	3601	CR407188	1.29	2.40E-03	3669	CR522919	5.50	1.74E-03
3534	CR406922	3.25	1.20E-02	3602	CR407195	1.70	4.59E-02	3670	CR522926	3.41	6.41E-03
3535	CR406928	1.36	1.13E-02	3603	CR407201	5.31	7.66E-04	3671	CR522927	5.81	2.37E-04

3672	CR522928	4.86	9.19E-04	3740	CR523236	4.69	7.03E-03	3808	CR523647	4.41	2.80E-02
3673	CR522932	4.47	4.67E-03	3741	CR523249	3.45	2.28E-03	3809	CR523653	4.74	7.59E-03
3674	CR522935	1.54	8.99E-04	3742	CR523251	3.06	5.14E-03	3810	CR523656	1.87	2.10E-03
3675	CR522936	1.82	1.11E-02	3743	CR523253	1.88	2.51E-02	3811	CR523660	1.48	1.18E-02
3676	CR522939	3.43	4.86E-03	3744	CR523267	3.04	8.21E-04	3812	CR523663	6.47	3.48E-03
3677	CR522943	5.68	7.47E-04	3745	CR523285	2.20	2.21E-02	3813	CR523665	1.62	1.04E-03
3678	CR522944	4.78	9.13E-03	3746	CR523309	3.24	5.58E-03	3814	CR523667	1.71	3.99E-02
3679	CR522945	1.99	1.86E-02	3747	CR523322	6.10	3.46E-03	3815	CR523670	3.80	2.81E-02
3680	CR522948	4.00	3.95E-03	3748	CR523323	3.81	1.27E-02	3816	CR523671	5.09	2.81E-04
3681	CR522958	4.64	6.95E-03	3749	CR523333	3.67	4.63E-04	3817	CR523686	3.14	2.89E-03
3682	CR522964	3.73	2.28E-03	3750	CR523334	2.11	4.19E-02	3818	CR523691	5.00	9.54E-04
3683	CR522968	1.88	2.15E-03	3751	CR523342	5.40	3.08E-03	3819	CR523697	4.34	5.46E-03
3684	CR522969	7.49	1.98E-04	3752	CR523344	5.77	1.28E-02	3820	CR523700	4.10	4.12E-04
3685	CR522972	2.74	8.96E-03	3753	CR523347	3.36	2.98E-05	3821	CR523702	3.79	1.99E-02
3686	CR522980	1.94	3.13E-02	3754	CR523348	7.05	2.60E-05	3822	CR523703	6.63	4.78E-03
3687	CR522982	1.98	2.22E-02	3755	CR523352	3.09	1.78E-02	3823	CR523704	3.42	5.56E-04
3688	CR522984	1.75	3.98E-02	3756	CR523366	1.87	1.30E-03	3824	CR523706	2.21	4.42E-03
3689	CR522987	1.37	2.03E-02	3757	CR523370	4.82	1.40E-02	3825	CR523709	3.78	2.62E-05
3690	CR522989	2.11	2.80E-03	3758	CR523375	2.75	3.59E-02	3826	CR523718	2.24	1.61E-02
3691	CR522993	3.60	1.46E-03	3759	CR523378	3.32	5.70E-05	3827	CR523721	4.01	1.73E-02
3692	CR522999	6.89	1.38E-05	3760	CR523385	3.41	4.13E-03	3828	CR523731	4.28	1.73E-03
3693	CR523010	2.69	9.86E-03	3761	CR523387	1.93	1.61E-02	3829	CR523740	2.78	3.06E-04
3694	CR523015	2.62	2.45E-03	3762	CR523389	2.96	1.74E-04	3830	CR523741	2.83	5.11E-03
3695	CR523019	2.35	7.06E-03	3763	CR523391	1.96	2.50E-02	3831	CR523751	4.70	1.37E-02
3696	CR523021	1.68	9.69E-02	3764	CR523393	3.00	6.28E-03	3832	CR523752	2.75	7.67E-04
3697	CR523024	2.86	4.67E-03	3765	CR523405	2.01	3.40E-02	3833	CR523757	5.10	1.78E-02
3698	CR523029	3.13	6.32E-03	3766	CR523410	1.30	9.37E-03	3834	CR523769	4.77	1.66E-03
3699	CR523032	1.49	1.29E-02	3767	CR523417	3.11	7.60E-03	3835	CR523775	3.08	1.37E-03
3700	CR523040	1.77	1.64E-02	3768	CR523422	4.88	3.61E-03	3836	CR523777	2.09	8.87E-03
3701	CR523051	2.98	3.19E-03	3769	CR523430	1.58	1.93E-02	3837	CR523791	1.71	6.14E-03
3702	CR523054	2.39	5.53E-03	3770	CR523437	1.42	5.71E-03	3838	CR523796	4.78	2.14E-04
3703	CR523055	5.41	1.36E-02	3771	CR523439	3.20	1.56E-02	3839	CR523797	3.63	2.14E-03
3704	CR523058	3.30	1.34E-03	3772	CR523440	3.91	1.05E-03	3840	CR523800	3.49	2.73E-03
3705	CR523069	1.36	3.12E-03	3773	CR523442	2.36	3.49E-03	3841	CR523804	3.52	2.62E-02
3706	CR523072	2.60	7.85E-03	3774	CR523462	6.31	6.64E-05	3842	CR523815	3.45	1.29E-03
3707	CR523075	4.72	8.70E-03	3775	CR523465	3.15	4.15E-02	3843	CR523819	4.06	1.34E-03
3708	CR523090	2.84	1.06E-02	3776	CR523478	4.16	3.30E-03	3844	CR523824	3.11	1.03E-02
3709	CR523091	4.21	8.32E-03	3777	CR523482	4.38	2.36E-03	3845	CR523830	2.75	5.50E-03
3710	CR523103	5.12	1.02E-03	3778	CR523485	2.77	9.39E-03	3846	CR523834	2.47	4.42E-03
3711	CR523104	3.53	1.05E-03	3779	CR523494	2.92	3.51E-02	3847	CR523835	3.62	8.26E-02
3712	CR523108	2.03	1.25E-02	3780	CR523502	3.55	2.12E-02	3848	CR523838	4.27	6.81E-04
3713	CR523109	2.72	1.97E-02	3781	CR523509	1.96	9.05E-03	3849	CR523843	5.35	5.56E-04
3714	CR523110	2.80	1.22E-02	3782	CR523512	4.73	2.96E-03	3850	CR523845	3.33	9.26E-03
3715	CR523117	3.17	1.83E-02	3783	CR523536	4.99	9.48E-03	3851	CR523851	3.81	7.69E-04
3716	CR523118	3.49	2.67E-03	3784	CR523544	2.08	2.81E-03	3852	CR523854	6.04	2.87E-03
3717	CR523129	6.36	2.04E-05	3785	CR523546	3.33	7.31E-03	3853	CR523855	3.66	2.02E-02
3718	CR523130	2.86	1.78E-04	3786	CR523551	1.65	5.63E-02	3854	CR523861	3.27	3.13E-02
3719	CR523133	1.78	7.23E-02	3787	CR523552	3.88	1.82E-03	3855	CR523865	3.28	4.95E-03
3720	CR523134	4.03	3.82E-05	3788	CR523559	3.58	5.37E-03	3856	CR523885	7.28	1.40E-03
3721	CR523148	5.68	1.88E-03	3789	CR523564	3.04	1.20E-03	3857	CR523887	2.74	1.77E-03
3722	CR523151	4.41	2.77E-03	3790	CR523572	2.70	4.24E-03	3858	CR523891	1.26	1.18E-03
3723	CR523154	3.60	5.01E-03	3791	CR523578	3.33	1.31E-02	3859	CR523893	2.12	4.23E-03
3724	CR523157	5.20	4.50E-04	3792	CR523579	5.48	1.88E-03	3860	CR523897	6.34	9.01E-04
3725	CR523158	5.76	1.70E-04	3793	CR523591	4.43	3.40E-03	3861	CR523898	4.41	8.58E-03
3726	CR523160	3.03	1.14E-02	3794	CR523604	3.13	9.54E-03	3862	CR523899	2.80	2.01E-03
3727	CR523175	3.55	1.32E-03	3795	CR523608	2.12	1.16E-02	3863	CR523909	4.17	1.37E-02
3728	CR523178	7.58	4.18E-03	3796	CR523612	1.73	5.22E-04	3864	CR523910	1.42	8.02E-03
3729	CR523186	3.96	3.45E-03	3797	CR523614	5.92	3.35E-03	3865	CR523911	4.82	4.03E-03
3730	CR523189	4.31	6.23E-04	3798	CR523626	3.28	4.33E-04	3866	CR523912	6.21	1.41E-04
3731	CR523191	4.19	6.68E-03	3799	CR523627	1.90	2.36E-02	3867	CR523914	4.16	1.73E-04
3732	CR523197	1.05	4.83E-02	3800	CR523628	4.40	2.16E-04	3868	CR523918	1.35	1.21E-02
3733	CR523203	3.70	1.36E-02	3801	CR523631	2.81	1.05E-02	3869	CR523920	4.81	3.97E-03
3734	CR523207	6.09	2.94E-03	3802	CR523633	1.95	2.29E-03	3870	CR523936	1.42	4.03E-02
3735	CR523218	2.59	7.47E-03	3803	CR523635	2.56	2.13E-03	3871	CR523938	2.93	1.99E-02
3736	CR523220	5.14	3.66E-03	3804	CR523639	5.58	1.25E-02	3872	CR523948	4.34	4.21E-03
3737	CR523224	1.27	7.77E-03	3805	CR523641	5.56	3.92E-03	3873	CR523949	3.26	1.15E-02
3738	CR523226	4.66	3.35E-04	3806	CR523642	1.38	6.11E-02	3874	CR523951	3.92	4.70E-04
3739	CR523232	4.80	9.10E-04	3807	CR523645	3.10	1.24E-03	3875	CR523958	6.95	4.03E-04

3876	CR523960	6.68	6.18E-04	3944	CR524271	3.31	2.98E-03	4012	CR733214	4.39	2.01E-02
3877	CR523963	3.40	7.97E-02	3945	CR524272	2.26	3.40E-03	4013	CR733223	5.82	4.94E-03
3878	CR523964	5.35	1.58E-02	3946	CR524273	3.45	2.11E-04	4014	CR733252	6.31	8.29E-04
3879	CR523965	3.13	1.59E-02	3947	CR524279	4.74	2.26E-03	4015	CR733261	6.57	4.49E-03
3880	CR523966	3.57	1.37E-03	3948	CR524283	5.70	4.26E-04	4016	CR733279	4.37	2.11E-03
3881	CR523967	5.60	1.53E-03	3949	CR524294	6.55	2.37E-05	4017	CR733289	2.35	1.62E-02
3882	CR523975	4.94	7.77E-03	3950	CR524296	3.89	2.00E-03	4018	CR733292	1.89	1.46E-03
3883	CR523976	4.10	1.58E-04	3951	CR524303	1.11	1.76E-02	4019	CR733298	3.99	2.34E-03
3884	CR523979	3.55	1.33E-02	3952	CR524307	1.81	1.14E-02	4020	CR733327	1.62	2.90E-02
3885	CR523982	2.63	1.19E-02	3953	CR524323	2.66	3.84E-03	4021	CR733336	3.12	1.35E-02
3886	CR523987	3.51	1.97E-03	3954	CR524335	2.51	4.02E-03	4022	CR733359	3.61	2.44E-04
3887	CR523988	5.75	2.11E-03	3955	CR524343	3.66	3.65E-02	4023	CR733361	2.64	2.45E-02
3888	CR523989	6.73	1.22E-03	3956	CR524344	4.44	6.34E-03	4024	CR733370	2.98	4.14E-02
3889	CR523995	4.92	5.19E-05	3957	CR524346	1.61	4.04E-04	4025	CR733372	3.98	6.56E-04
3890	CR524000	4.50	5.60E-04	3958	CR524348	5.69	3.94E-04	4026	CR733375	3.92	6.93E-04
3891	CR524001	2.89	4.04E-02	3959	CR524353	1.40	1.07E-02	4027	CR733377	2.36	1.12E-02
3892	CR524007	2.00	5.76E-03	3960	CR524385	2.19	3.48E-02	4028	CR733385	1.86	1.75E-03
3893	CR524017	3.40	2.25E-02	3961	CR524386	6.78	2.99E-03	4029	CR733401	4.65	6.74E-03
3894	CR524021	5.21	1.27E-02	3962	CR524392	3.81	1.76E-03	4030	CR733403	4.67	8.00E-04
3895	CR524022	4.69	1.92E-03	3963	CR524397	1.73	2.04E-03	4031	CR733412	1.63	5.18E-03
3896	CR524032	3.34	5.84E-03	3964	CR524401	3.56	1.26E-02	4032	CR733428	1.64	3.37E-02
3897	CR524034	5.58	8.54E-04	3965	CR524405	1.51	2.97E-02	4033	CREB3L3	4.47	1.93E-02
3898	CR524039	4.92	1.44E-03	3966	CR524407	1.89	6.09E-03	4034	CREB5	1.57	2.76E-02
3899	CR524041	3.87	4.30E-04	3967	CR524411	5.92	1.66E-03	4035	CRHBP	2.68	3.28E-02
3900	CR524044	6.51	5.23E-03	3968	CR524420	3.33	1.72E-02	4036	CRHR1	4.22	2.97E-04
3901	CR524059	4.42	1.35E-02	3969	CR524432	5.33	1.53E-03	4037	CRHR2	1.24	2.80E-02
3902	CR524060	3.86	4.78E-04	3970	CR524439	3.63	9.28E-03	4038	CRI2P	1.73	2.06E-02
3903	CR524076	2.41	9.87E-02	3971	CR524441	2.61	1.08E-02	4039	CRISP2	4.38	4.99E-03
3904	CR524085	5.65	3.48E-03	3972	CR524448	1.55	5.66E-02	4040	CRMP1	1.11	6.72E-03
3905	CR524088	5.15	1.27E-03	3973	CR524453	1.59	2.90E-02	4041	CRNN	3.89	2.40E-02
3906	CR524092	5.19	2.84E-03	3974	CR524454	1.94	8.46E-03	4042	CRP	3.93	1.42E-03
3907	CR524094	4.65	2.34E-03	3975	CR524456	3.59	6.97E-03	4043	CRAC1	3.04	7.59E-04
3908	CR524098	5.95	1.72E-04	3976	CR524459	4.18	4.65E-03	4044	CRTAM	3.97	8.73E-04
3909	CR524104	2.05	3.77E-04	3977	CR524460	4.68	3.02E-03	4045	CRYAA	2.14	2.69E-02
3910	CR524114	4.83	3.35E-04	3978	CR524461	1.75	1.33E-02	4046	CRYBA4	4.94	5.00E-03
3911	CR524119	2.54	4.31E-04	3979	CR732747	2.12	6.10E-03	4047	CRYBB1	4.51	4.84E-03
3912	CR524124	4.08	1.47E-03	3980	CR732755	3.94	9.37E-03	4048	CRYBB2	2.07	6.76E-03
3913	CR524134	4.35	1.27E-03	3981	CR732767	2.92	1.64E-04	4049	CSAD	2.89	1.02E-03
3914	CR524139	5.07	1.04E-04	3982	CR732772	2.36	1.97E-03	4050	CSDC2	1.74	1.94E-02
3915	CR524143	2.56	2.13E-02	3983	CR732796	1.40	5.48E-03	4051	CSF2RA	3.90	2.66E-03
3916	CR524145	1.62	3.26E-02	3984	CR732808	2.39	3.90E-02	4052	CSF3	4.75	7.70E-03
3917	CR524146	3.53	9.81E-03	3985	CR732816	1.75	4.36E-02	4053	CSF3R	3.93	3.22E-03
3918	CR524150	6.65	7.81E-03	3986	CR732831	2.18	6.92E-03	4054	CSMD1	5.08	1.01E-02
3919	CR524151	3.81	6.73E-04	3987	CR732853	5.87	7.21E-03	4055	CSMD2	3.86	1.73E-03
3920	CR524168	3.06	1.07E-02	3988	CR732910	5.78	1.43E-03	4056	CSPG5	2.25	5.81E-03
3921	CR524183	3.09	2.71E-04	3989	CR732922	1.55	9.77E-02	4057	CSR3P	1.32	3.35E-05
3922	CR524190	1.69	1.05E-01	3990	CR732928	4.71	7.61E-03	4058	CS77	1.67	4.74E-03
3923	CR524200	4.28	4.48E-03	3991	CR732989	3.43	2.21E-02	4059	CTLA4	5.73	1.68E-03
3924	CR524203	5.30	1.65E-02	3992	CR732995	5.33	2.02E-03	4060	CTNNA2	2.99	8.84E-04
3925	CR524205	6.43	9.84E-03	3993	CR733001	1.22	1.16E-02	4061	CTRC	4.35	6.23E-05
3926	CR524207	1.88	7.38E-04	3994	CR733044	5.99	1.06E-03	4062	CTSC	2.09	1.01E-03
3927	CR524208	1.34	3.19E-03	3995	CR733047	3.16	5.79E-04	4063	CTSE	4.80	1.15E-03
3928	CR524212	4.35	4.97E-03	3996	CR733067	3.87	2.74E-03	4064	CTSG	6.26	1.08E-03
3929	CR524216	3.62	6.14E-02	3997	CR733084	3.93	3.42E-03	4065	CTSO	1.68	1.38E-03
3930	CR524220	2.10	3.21E-03	3998	CR733086	1.95	4.92E-02	4066	CTXN1	3.46	3.38E-03
3931	CR524223	5.86	2.33E-03	3999	CR733088	3.02	1.81E-03	4067	CV856053	1.58	1.40E-02
3932	CR524229	2.84	2.73E-03	4000	CR733094	6.53	6.65E-03	4068	CV859296	2.52	3.52E-03
3933	CR524233	3.35	2.08E-02	4001	CR733099	2.58	8.14E-04	4069	CV861404	1.57	6.32E-03
3934	CR524237	3.05	5.87E-04	4002	CR733107	1.84	4.14E-02	4070	CV861894	3.53	2.18E-04
3935	CR524238	3.78	3.20E-03	4003	CR733123	3.16	8.36E-03	4071	CV862058	1.90	4.97E-03
3936	CR524245	5.71	2.76E-05	4004	CR733125	5.13	3.03E-03	4072	CV862243	2.44	6.15E-03
3937	CR524246	2.83	1.42E-02	4005	CR733129	5.97	1.42E-04	4073	CV862686	1.81	9.62E-03
3938	CR524247	3.82	1.36E-03	4006	CR733136	3.41	6.98E-03	4074	CX3CR1	2.53	9.50E-04
3939	CR524253	3.63	2.82E-03	4007	CR733141	1.71	8.54E-03	4075	CXCL12	1.51	1.47E-03
3940	CR524256	6.36	2.98E-04	4008	CR733158	3.06	3.38E-03	4076	CXCL14	3.73	1.60E-03
3941	CR524258	2.91	1.54E-03	4009	CR733173	1.55	3.66E-02	4077	CXCR2	1.79	5.14E-04
3942	CR524262	1.69	1.53E-03	4010	CR733195	1.54	5.67E-02	4078	CXCR4	4.49	9.38E-05
3943	CR524269	3.85	2.19E-03	4011	CR733199	7.74	7.33E-04	4079	CXCR5	3.22	3.04E-04

4080	CYFIP2	6.41	4.87E-04	4148	DLK1	5.93	1.05E-03	4216	DR424050	2.44	1.84E-03
4081	CYGB	4.18	2.66E-03	4149	DLK2	6.93	4.62E-03	4217	DR424309	4.20	7.78E-03
4082	CYP19A1	2.81	6.44E-03	4150	DLL4	5.36	5.78E-03	4218	DR425157	3.60	6.20E-04
4083	CYP1A2	3.45	7.32E-03	4151	DLX1	4.60	9.71E-03	4219	DR426245	2.56	8.02E-03
4084	CYP1B1	2.24	1.02E-02	4152	DLX3	3.26	1.31E-02	4220	DR427573	4.61	1.59E-02
4085	CYP21A2	1.43	4.22E-03	4153	DMBT1	2.32	6.72E-03	4221	DR429513	3.91	3.35E-03
4086	CYP26B1	3.35	5.68E-03	4154	DMBX1	3.74	1.06E-03	4222	DR429796	2.83	3.34E-04
4087	CYP26C1	2.17	7.97E-03	4155	DMP1	4.29	1.41E-04	4223	DR430205	3.66	2.19E-03
4088	CYP27A1	2.73	1.17E-03	4156	DMRT2	2.12	2.02E-02	4224	DR430295	2.61	5.86E-02
4089	CYP2A13	4.53	9.45E-03	4157	DNAJB5	3.79	3.76E-04	4225	DR431997	1.48	1.62E-02
4090	CYP2B7P1	3.90	7.45E-03	4158	DNAJC22	4.35	1.41E-02	4226	DRD1	3.91	1.42E-03
4091	CYP2C45	6.03	1.27E-03	4159	DNAJC6	4.43	1.91E-03	4227	DRD2	1.95	5.15E-03
4092	CYP2H1	2.86	5.86E-03	4160	DNAJC7	3.33	7.36E-03	4228	DRGX	4.43	3.07E-04
4093	CYP2R1	4.21	3.78E-03	4161	DNASE1	4.61	5.00E-04	4229	DSCAM	1.98	1.69E-02
4094	CYP2W1	2.38	2.64E-02	4162	DNASE1L2	6.29	1.48E-03	4230	DSCAML1	3.44	6.74E-04
4095	CYP3A4	1.93	4.94E-02	4163	DNASE2B	2.00	1.94E-03	4231	DSE	3.15	4.55E-03
4096	CYP3A7	5.98	7.33E-04	4164	DND1	1.84	9.77E-03	4232	DSEL	1.90	7.57E-04
4097	CYP4B1	2.11	1.01E-03	4165	DNMT3B	2.52	2.04E-03	4233	DTX4	1.83	1.18E-03
4098	CYP4V2	4.79	1.43E-02	4166	DNTT	6.60	6.84E-05	4234	DUOX2	1.64	8.04E-03
4099	CYR61	1.76	4.61E-02	4167	DOCK10	1.58	1.12E-02	4235	DUOXA1	3.19	1.19E-02
4100	CYSLTR1	3.81	1.61E-03	4168	DOCK11	1.71	1.08E-02	4236	DUSP13	4.57	3.55E-03
4101	CYSLTR2	7.59	6.48E-03	4169	DOCK3	1.22	5.40E-03	4237	DUSP16	4.45	7.14E-03
4102	CYTH4	3.44	1.02E-02	4170	DOCK4	2.63	2.68E-03	4238	DUSP26	1.19	3.70E-02
4103	CYTIP	1.74	1.18E-03	4171	DOCK5	2.42	7.78E-03	4239	DUSP27	1.70	4.03E-03
4104	CYTL1	6.45	4.97E-05	4172	DOCK8	1.41	1.15E-03	4240	DUSP28	1.91	9.91E-03
4105	CZH9orf125	2.54	1.55E-03	4173	DOK3	3.58	1.13E-03	4241	DUSP4	4.20	4.16E-03
4106	CZH9orf3	1.51	4.16E-02	4174	DOK6	4.61	7.89E-03	4242	DUSP8	2.56	4.20E-03
4107	CZH9orf72	1.54	5.62E-03	4175	DOK7	1.90	2.61E-03	4243	DVL3	1.59	2.25E-03
4108	DY0821	3.39	5.03E-03	4176	DOLPP1	5.53	1.01E-03	4244	DYSF	3.84	1.21E-02
4109	DAB1	3.82	5.20E-05	4177	DPEP1	4.67	4.08E-04	4245	DYSFIP1	3.03	3.91E-03
4110	DACT1	1.39	5.61E-03	4178	DPEP2	2.24	6.71E-03	4246	E2F2	6.81	4.40E-03
4111	DAG1	1.35	4.31E-03	4179	DPF1	4.49	6.61E-03	4247	E2F3	2.45	9.78E-04
4112	DAPK1	4.47	3.96E-03	4180	DPF3	3.12	1.29E-03	4248	E2F7	2.77	1.03E-02
4113	DAPK2	1.06	5.60E-04	4181	DPP10	2.72	8.87E-03	4249	EAF2	1.66	6.83E-03
4114	DBC1	1.43	5.83E-02	4182	DPP6	1.96	8.36E-03	4250	EBF3	1.21	5.09E-03
4115	DBF4B	2.95	9.89E-03	4183	DPP9	3.07	4.06E-03	4251	ECHDC1	1.29	2.45E-03
4116	DBH	4.97	6.88E-04	4184	DPYD	3.50	2.92E-03	4252	EDA2R	2.08	5.37E-04
4117	DBN1	1.62	1.90E-02	4185	DQX1	1.43	2.42E-02	4253	EDAR	5.81	6.75E-03
4118	DCAF6	2.27	1.71E-02	4186	DR410295	3.35	3.90E-03	4254	EDN1	1.09	4.14E-02
4119	DCBLD1	1.34	1.04E-02	4187	DR410506	2.55	5.04E-03	4255	EDN2	1.28	1.72E-02
4120	DCLK2	1.25	2.21E-02	4188	DR411377	2.91	2.42E-03	4256	EDN3	1.66	1.71E-02
4121	DCP2	5.80	4.88E-05	4189	DR412576	7.35	1.59E-02	4257	EDNRB2	4.50	7.73E-04
4122	DCT	2.53	1.11E-02	4190	DR413358	1.95	3.90E-03	4258	EEF1A2	3.93	2.71E-02
4123	DCTN2	1.65	6.08E-02	4191	DR413521	2.42	4.61E-03	4259	EF051348	3.36	1.25E-04
4124	DDO	1.33	2.14E-03	4192	DR413662	3.09	4.76E-03	4260	EF117325	2.57	1.94E-03
4125	DDR2	1.19	1.80E-02	4193	DR414690	3.22	8.76E-02	4261	EF117327	2.06	2.24E-02
4126	DDX28	4.13	4.61E-04	4194	DR415530	3.26	9.80E-03	4262	EF193863	5.29	8.25E-03
4127	DDX41	2.02	7.25E-03	4195	DR416881	1.93	2.03E-03	4263	EF422212	5.13	2.76E-03
4128	DEF6	2.19	2.13E-02	4196	DR417069	3.28	1.11E-02	4264	EF554710	1.28	1.07E-01
4129	DEFB1	3.66	9.73E-04	4197	DR417267	1.84	1.06E-02	4265	EFNA2	2.80	3.70E-02
4130	DENND2D	2.68	7.88E-04	4198	DR417559	1.61	2.17E-02	4266	EFNB1	2.75	8.68E-03
4131	DENND3	2.99	3.45E-03	4199	DR417905	3.31	7.85E-03	4267	EFNB2	2.80	6.17E-03
4132	DEPDC6	6.45	7.97E-03	4200	DR418021	1.50	1.99E-02	4268	EFR3B	2.22	1.00E-01
4133	DEXI	2.65	1.10E-02	4201	DR418364	3.22	5.59E-02	4269	EGF	2.64	1.94E-02
4134	DFNB59	6.75	9.99E-04	4202	DR418610	3.10	2.42E-03	4270	EGFL11	5.96	1.47E-04
4135	DGCR2	3.10	6.20E-03	4203	DR418638	4.02	5.37E-03	4271	EGRA	8.30	3.04E-03
4136	DGKB	3.36	7.26E-03	4204	DR418885	1.45	2.02E-02	4272	EGHADH	2.46	4.32E-03
4137	DGKG	6.48	3.19E-03	4205	DR419609	1.84	8.31E-03	4273	EIF2C1	1.98	5.68E-03
4138	DGKI	3.63	5.98E-03	4206	DR419982	2.49	7.03E-02	4274	EIF4ENIF1	1.67	8.50E-03
4139	DHRS4	1.25	6.38E-03	4207	DR420033	2.22	2.67E-03	4275	ELF2	2.24	1.61E-03
4140	DHRS7C	1.10	7.86E-02	4208	DR420041	2.39	6.49E-04	4276	ELF3	3.52	3.73E-03
4141	DIO1	2.44	1.23E-02	4209	DR420103	3.49	2.11E-02	4277	ELF5	3.90	8.04E-04
4142	DIP2C	2.93	8.76E-03	4210	DR420117	2.55	1.61E-03	4278	ELFN1	3.87	1.17E-02
4143	DISP2	3.92	5.66E-04	4211	DR420136	1.37	9.00E-03	4279	ELFN2	4.49	3.64E-03
4144	DKK1	3.75	4.73E-03	4212	DR420323	2.99	3.90E-02	4280	ELK4	1.59	2.23E-03
4145	DKK2	2.57	3.22E-03	4213	DR420361	3.40	1.15E-04	4281	ELMO3	2.57	4.13E-03
4146	DLC1	1.25	1.21E-02	4214	DR420543	1.61	2.35E-02	4282	ELMOD1	1.62	5.04E-02
4147	DLGAP3	1.61	2.55E-02	4215	DR420559	1.86	4.08E-02	4283	ELMSAN1	3.87	1.39E-03

4284	ELN	5.14	1.02E-03	4352	ENSGALT00000001069	2.62	1.42E-01	4420	ENSGALT00000002638	2.23	2.22E-03
4285	ELOVL2	2.20	3.24E-05	4353	ENSGALT00000001082	6.45	1.86E-04	4421	ENSGALT00000002644	3.71	1.19E-03
4286	ELOVL3	4.25	2.51E-02	4354	ENSGALT00000001090	2.92	4.14E-03	4422	ENSGALT00000002658	2.07	7.54E-03
4287	ELOVL4	1.67	5.59E-03	4355	ENSGALT00000001104	3.32	4.23E-03	4423	ENSGALT00000002697	1.30	4.55E-02
4288	ELOVL7	2.40	5.15E-03	4356	ENSGALT00000001115	2.51	1.16E-03	4424	ENSGALT00000002769	3.41	2.30E-03
4289	ELTD1	5.64	3.42E-04	4357	ENSGALT00000001119	1.68	1.65E-02	4425	ENSGALT00000002910	3.06	1.54E-03
4290	EMID2	2.16	2.17E-02	4358	ENSGALT00000001164	5.75	1.30E-04	4426	ENSGALT00000002927	7.44	5.90E-04
4291	EMILIN3	4.17	1.69E-03	4359	ENSGALT00000001200	6.56	1.76E-03	4427	ENSGALT00000002951	2.24	1.91E-02
4292	EMP1	2.96	1.12E-02	4360	ENSGALT00000001226	1.75	1.51E-02	4428	ENSGALT00000002972	3.18	2.14E-02
4293	EMX2	3.70	2.35E-03	4361	ENSGALT00000001286	5.59	9.14E-05	4429	ENSGALT00000002981	1.91	2.09E-02
4294	ENC1	1.51	8.09E-03	4362	ENSGALT00000001321	3.58	4.11E-05	4430	ENSGALT00000003009	4.06	3.05E-04
4295	ENODD1	3.73	6.94E-04	4363	ENSGALT00000001322	5.25	1.43E-02	4431	ENSGALT00000003060	3.07	8.95E-04
4296	ENG	2.22	1.40E-02	4364	ENSGALT00000001343	1.12	7.40E-02	4432	ENSGALT00000003079	3.20	3.16E-03
4297	ENGASE	3.45	4.25E-03	4365	ENSGALT00000001359	4.33	1.97E-04	4433	ENSGALT00000003099	5.49	3.59E-03
4298	ENO2	1.53	2.12E-03	4366	ENSGALT00000001379	3.51	1.32E-02	4434	ENSGALT00000003102	5.72	9.79E-04
4299	ENO3	4.03	1.53E-02	4367	ENSGALT00000001381	3.70	5.43E-02	4435	ENSGALT00000003112	7.06	3.37E-03
4300	ENOX1	1.26	3.08E-02	4368	ENSGALT00000001404	3.21	1.11E-02	4436	ENSGALT00000003124	2.89	2.70E-03
4301	ENPEP	3.65	2.45E-03	4369	ENSGALT00000001405	1.69	6.62E-04	4437	ENSGALT00000003150	6.29	7.96E-05
4302	ENPP3	3.30	1.39E-02	4370	ENSGALT00000001471	4.25	1.11E-03	4438	ENSGALT00000003220	3.23	1.82E-03
4303	ENPP6	1.20	2.75E-02	4371	ENSGALT00000001491	2.48	1.71E-02	4439	ENSGALT00000003225	4.39	6.01E-03
4304	ENPP7	3.65	9.92E-04	4372	ENSGALT00000001512	1.38	7.16E-03	4440	ENSGALT00000003234	5.29	5.27E-03
4305	ENS-1	5.13	2.19E-04	4373	ENSGALT00000001517	6.73	3.73E-04	4441	ENSGALT00000003315	5.15	1.50E-03
4306	ENS-3	5.69	1.02E-03	4374	ENSGALT00000001524	2.06	3.46E-03	4442	ENSGALT00000003330	2.06	2.89E-03
4307	ENSGALT00000000002	1.90	5.80E-02	4375	ENSGALT00000001533	3.83	4.82E-02	4443	ENSGALT00000003398	5.16	1.04E-03
4308	ENSGALT00000000023	6.57	8.16E-05	4376	ENSGALT00000001603	4.97	1.15E-03	4444	ENSGALT00000003448	5.03	1.30E-04
4309	ENSGALT00000000075	2.56	2.08E-02	4377	ENSGALT00000001623	5.24	9.53E-04	4445	ENSGALT00000003452	4.64	1.00E-03
4310	ENSGALT00000000078	8.23	5.69E-04	4378	ENSGALT00000001645	2.42	4.94E-03	4446	ENSGALT00000003471	2.39	1.15E-03
4311	ENSGALT00000000097	1.79	1.00E-03	4379	ENSGALT00000001709	4.55	1.57E-03	4447	ENSGALT00000003541	7.64	1.94E-03
4312	ENSGALT00000000103	2.31	5.49E-03	4380	ENSGALT00000001710	5.25	1.96E-03	4448	ENSGALT00000003550	8.38	1.88E-06
4313	ENSGALT00000000104	3.88	9.58E-03	4381	ENSGALT00000001711	6.75	4.54E-04	4449	ENSGALT00000003596	5.77	1.76E-04
4314	ENSGALT00000000126	8.60	3.19E-03	4382	ENSGALT00000001713	3.48	5.18E-03	4450	ENSGALT00000003711	4.77	1.93E-04
4315	ENSGALT00000000128	1.49	2.64E-02	4383	ENSGALT00000001735	2.69	2.35E-03	4451	ENSGALT00000003737	2.55	1.56E-05
4316	ENSGALT00000000134	6.32	8.74E-04	4384	ENSGALT00000001743	3.53	1.41E-03	4452	ENSGALT00000003760	3.36	2.05E-06
4317	ENSGALT00000000176	5.70	1.98E-02	4385	ENSGALT00000001817	5.98	2.21E-02	4453	ENSGALT00000003843	4.03	9.18E-03
4318	ENSGALT00000000192	3.51	6.67E-03	4386	ENSGALT00000001836	1.65	1.37E-02	4454	ENSGALT00000003852	2.26	1.28E-03
4319	ENSGALT00000000114	1.67	4.39E-02	4387	ENSGALT00000001838	4.81	1.50E-04	4455	ENSGALT00000003869	4.08	1.34E-03
4320	ENSGALT00000000208	9.15	1.48E-03	4388	ENSGALT00000001860	3.98	3.16E-04	4456	ENSGALT00000003872	1.63	6.13E-03
4321	ENSGALT00000000218	3.44	1.33E-02	4389	ENSGALT00000001886	2.96	1.94E-03	4457	ENSGALT00000003879	3.02	2.11E-03
4322	ENSGALT00000000238	5.11	8.56E-05	4390	ENSGALT00000001899	2.80	3.53E-03	4458	ENSGALT00000003967	2.87	4.41E-03
4323	ENSGALT00000000245	2.75	7.35E-04	4391	ENSGALT00000001910	3.09	1.20E-02	4459	ENSGALT00000003968	2.79	1.11E-01
4324	ENSGALT00000000318	1.29	2.45E-02	4392	ENSGALT00000001936	1.70	2.91E-03	4460	ENSGALT00000003994	2.24	9.06E-03
4325	ENSGALT00000000329	2.43	8.97E-03	4393	ENSGALT00000001991	7.02	6.66E-04	4461	ENSGALT00000004021	5.69	8.53E-04
4326	ENSGALT00000000384	3.93	4.10E-03	4394	ENSGALT00000002017	7.98	1.04E-03	4462	ENSGALT00000004047	4.54	1.47E-03
4327	ENSGALT00000000445	6.30	3.61E-04	4395	ENSGALT00000002048	4.96	3.71E-02	4463	ENSGALT00000004053	5.22	4.91E-03
4328	ENSGALT00000000493	3.70	5.55E-03	4396	ENSGALT00000002056	5.56	4.63E-03	4464	ENSGALT00000004079	5.69	6.82E-03
4329	ENSGALT00000000509	4.56	2.66E-02	4397	ENSGALT00000002086	2.70	3.47E-03	4465	ENSGALT00000004086	1.40	6.87E-02
4330	ENSGALT00000000567	3.90	1.45E-02	4398	ENSGALT00000002107	3.98	3.22E-03	4466	ENSGALT00000004111	4.73	9.34E-04
4331	ENSGALT00000000601	6.11	5.44E-05	4399	ENSGALT00000002112	5.85	8.77E-04	4467	ENSGALT00000004112	5.16	3.88E-03
4332	ENSGALT00000000609	3.44	5.38E-03	4400	ENSGALT00000002133	2.81	5.80E-02	4468	ENSGALT00000004142	1.55	7.46E-03
4333	ENSGALT00000000625	4.93	4.79E-03	4401	ENSGALT00000002139	8.86	2.67E-05	4469	ENSGALT00000004153	1.36	3.05E-03
4334	ENSGALT00000000643	4.79	5.89E-04	4402	ENSGALT00000002173	2.29	3.38E-03	4470	ENSGALT00000004175	2.36	9.02E-03
4335	ENSGALT00000000747	2.82	8.42E-05	4403	ENSGALT00000002205	2.82	7.49E-04	4471	ENSGALT00000004177	3.25	5.29E-04
4336	ENSGALT00000000760	1.72	4.02E-03	4404	ENSGALT00000002208	5.37	1.20E-03	4472	ENSGALT00000004192	3.21	1.61E-03
4337	ENSGALT00000000796	5.26	2.71E-04	4405	ENSGALT00000002213	5.27	3.88E-03	4473	ENSGALT00000004228	2.55	3.74E-03
4338	ENSGALT00000000808	7.04	2.72E-03	4406	ENSGALT00000002259	1.28	5.58E-03	4474	ENSGALT00000004299	2.78	2.80E-03
4339	ENSGALT00000000813	4.12	3.88E-03	4407	ENSGALT00000002274	3.00	1.66E-02	4475	ENSGALT00000004341	2.31	1.58E-02
4340	ENSGALT00000000817	3.10	1.17E-02	4408	ENSGALT00000002308	3.85	6.95E-03	4476	ENSGALT00000004346	3.96	3.47E-03
4341	ENSGALT00000000819	2.21	5.14E-04	4409	ENSGALT00000002310	2.86	4.14E-03	4477	ENSGALT00000004369	3.14	5.52E-04
4342	ENSGALT00000000842	2.63	7.31E-03	4410	ENSGALT00000002392	3.49	3.92E-04	4478	ENSGALT00000004444	1.55	1.28E-02
4343	ENSGALT00000000915	2.45	4.12E-03	4411	ENSGALT00000002421	2.35	7.15E-04	4479	ENSGALT00000004451	2.93	1.44E-03
4344	ENSGALT00000000936	3.61	5.30E-03	4412	ENSGALT00000002497	7.78	5.10E-04	4480	ENSGALT00000004461	8.11	1.21E-05
4345	ENSGALT00000000938	2.89	4.14E-02	4413	ENSGALT00000002498	1.73	1.42E-03	4481	ENSGALT00000004481	3.63	1.80E-04
4346	ENSGALT00000000949	4.25	2.55E-03	4414	ENSGALT00000002532	5.67	9.95E-03	4482	ENSGALT00000004496	1.27	1.77E-02
4347	ENSGALT00000000975	1.46	1.29E-02	4415	ENSGALT00000002539	6.37	2.17E-03	4483	ENSGALT00000004499	2.03	5.30E-03
4348	ENSGALT00000000989	3.31	4.65E-03	4416	ENSGALT00000002596	2.80	3.49E-03	4484	ENSGALT00000004618	3.67	9.53E-04
4349	ENSGALT00000001035	3.90	5.01E-03	4417	ENSGALT00000002620	5.03	1.22E-03	4485	ENSGALT00000004639	4.15	9.24E-03
4350	ENSGALT00000001043	2.02	1.76E-02	4418	ENSGALT00000002625	6.96	1.46E-04	4486	ENSGALT00000004669	3.12	3.02E-02
4351	ENSGALT00000001051	1.88	2.55E-03	4419	ENSGALT00000002632	3.44	8.23E-04	4487	ENSGALT00000004670	7.17	2.84E-03

4488	ENSGALT00000004743	4.55	9.36E-03	4556	ENSGALT00000006552	2.21	2.36E-02	4624	ENSGALT00000008424	5.60	4.72E-03
4489	ENSGALT00000004757	2.87	4.93E-02	4557	ENSGALT00000006567	7.61	5.86E-04	4625	ENSGALT00000008478	2.38	1.36E-02
4490	ENSGALT00000004777	4.98	3.58E-04	4558	ENSGALT00000006604	5.08	1.02E-04	4626	ENSGALT00000008573	5.50	8.30E-03
4491	ENSGALT00000004804	2.78	3.65E-02	4559	ENSGALT00000006613	3.00	1.16E-03	4627	ENSGALT00000008607	3.30	5.72E-03
4492	ENSGALT00000004805	1.56	5.06E-02	4560	ENSGALT00000006628	2.51	3.94E-03	4628	ENSGALT00000008642	3.77	5.65E-03
4493	ENSGALT00000004821	2.67	1.70E-03	4561	ENSGALT00000006673	3.27	2.37E-03	4629	ENSGALT00000008679	4.34	6.37E-04
4494	ENSGALT00000004910	2.69	5.63E-03	4562	ENSGALT00000006699	1.39	7.80E-04	4630	ENSGALT00000008752	3.93	1.23E-03
4495	ENSGALT00000004926	3.59	7.52E-03	4563	ENSGALT00000006721	2.46	2.23E-02	4631	ENSGALT00000008780	2.62	9.02E-04
4496	ENSGALT00000004939	4.49	7.15E-04	4564	ENSGALT00000006774	6.04	3.62E-03	4632	ENSGALT00000008802	1.35	6.14E-03
4497	ENSGALT00000004942	3.87	8.96E-04	4565	ENSGALT00000006828	3.71	8.83E-03	4633	ENSGALT00000008892	4.74	9.57E-04
4498	ENSGALT00000004963	4.15	1.45E-03	4566	ENSGALT00000006850	3.78	9.82E-04	4634	ENSGALT00000008914	3.54	8.02E-04
4499	ENSGALT00000005006	4.73	1.14E-02	4567	ENSGALT00000006888	6.25	2.18E-03	4635	ENSGALT00000008925	4.51	3.86E-04
4500	ENSGALT00000005037	3.21	6.39E-03	4568	ENSGALT00000006904	5.34	4.36E-03	4636	ENSGALT00000008940	2.18	2.84E-03
4501	ENSGALT00000005059	1.83	5.63E-03	4569	ENSGALT00000006911	2.80	7.70E-04	4637	ENSGALT00000008974	3.72	7.65E-03
4502	ENSGALT00000005080	2.60	7.04E-03	4570	ENSGALT00000006915	1.78	1.87E-02	4638	ENSGALT00000009037	1.03	5.62E-02
4503	ENSGALT00000005086	2.99	1.28E-03	4571	ENSGALT00000006942	2.71	7.06E-03	4639	ENSGALT00000009085	7.92	7.81E-03
4504	ENSGALT00000005115	6.62	7.04E-03	4572	ENSGALT00000006958	5.29	8.06E-06	4640	ENSGALT00000009211	2.99	6.37E-03
4505	ENSGALT00000005125	2.80	6.29E-03	4573	ENSGALT00000007004	4.45	5.66E-04	4641	ENSGALT00000009224	5.27	1.84E-03
4506	ENSGALT00000005126	3.81	8.11E-05	4574	ENSGALT00000007044	5.16	3.07E-03	4642	ENSGALT00000009229	5.86	2.94E-03
4507	ENSGALT00000005210	1.18	2.86E-02	4575	ENSGALT00000007057	4.70	2.66E-03	4643	ENSGALT00000009242	5.95	3.69E-04
4508	ENSGALT00000005214	4.11	2.86E-03	4576	ENSGALT00000007066	2.99	9.59E-04	4644	ENSGALT00000009303	5.58	2.73E-03
4509	ENSGALT00000005219	2.56	1.74E-04	4577	ENSGALT00000007096	2.42	7.52E-03	4645	ENSGALT00000009416	3.92	1.50E-02
4510	ENSGALT00000005232	5.17	1.39E-02	4578	ENSGALT00000007125	4.32	8.18E-04	4646	ENSGALT00000009436	5.60	2.45E-03
4511	ENSGALT00000005255	4.15	8.91E-04	4579	ENSGALT00000007138	7.08	3.03E-03	4647	ENSGALT00000009444	6.68	2.27E-03
4512	ENSGALT00000005279	1.62	7.31E-03	4580	ENSGALT00000007142	2.68	1.40E-03	4648	ENSGALT00000009448	4.97	3.78E-03
4513	ENSGALT00000005280	2.63	6.51E-04	4581	ENSGALT00000007151	1.25	1.52E-02	4649	ENSGALT00000009480	1.67	2.60E-04
4514	ENSGALT00000005325	3.10	6.31E-04	4582	ENSGALT00000007173	4.37	4.48E-04	4650	ENSGALT00000009524	4.80	6.40E-03
4515	ENSGALT00000005335	3.03	1.29E-02	4583	ENSGALT00000007209	2.67	1.41E-02	4651	ENSGALT00000009555	5.51	5.80E-03
4516	ENSGALT00000005350	3.68	1.54E-04	4584	ENSGALT00000007222	6.05	7.50E-04	4652	ENSGALT00000009559	1.94	1.27E-02
4517	ENSGALT00000005376	1.52	6.51E-04	4585	ENSGALT00000007237	5.09	1.00E-02	4653	ENSGALT00000009564	4.79	6.29E-03
4518	ENSGALT00000005378	2.97	2.65E-04	4586	ENSGALT00000007292	3.61	5.44E-03	4654	ENSGALT00000009570	2.02	3.52E-03
4519	ENSGALT00000005394	3.97	3.85E-04	4587	ENSGALT00000007296	5.73	9.45E-06	4655	ENSGALT00000009580	4.14	1.15E-05
4520	ENSGALT00000005397	3.03	8.46E-04	4588	ENSGALT00000007301	1.89	1.61E-03	4656	ENSGALT00000009599	5.21	3.10E-03
4521	ENSGALT00000005402	1.33	2.11E-03	4589	ENSGALT00000007319	3.93	1.74E-02	4657	ENSGALT00000009662	1.88	1.59E-02
4522	ENSGALT00000005514	2.33	1.62E-03	4590	ENSGALT00000007323	6.53	1.86E-03	4658	ENSGALT00000009708	5.09	3.73E-04
4523	ENSGALT00000005529	3.79	2.66E-02	4591	ENSGALT00000007324	2.27	1.15E-02	4659	ENSGALT00000009768	3.32	1.85E-03
4524	ENSGALT00000005592	2.21	6.46E-03	4592	ENSGALT00000007335	5.10	1.67E-04	4660	ENSGALT00000009788	1.43	1.18E-02
4525	ENSGALT00000005654	4.77	3.17E-03	4593	ENSGALT00000007348	1.78	9.67E-03	4661	ENSGALT00000009806	2.71	4.68E-03
4526	ENSGALT00000005671	6.36	4.09E-03	4594	ENSGALT00000007459	2.84	1.42E-02	4662	ENSGALT00000009868	2.55	2.70E-04
4527	ENSGALT00000005711	4.35	4.46E-04	4595	ENSGALT00000007519	4.61	1.63E-03	4663	ENSGALT00000009896	5.43	4.27E-03
4528	ENSGALT00000005719	6.35	1.04E-03	4596	ENSGALT00000007547	3.07	2.21E-03	4664	ENSGALT00000009920	6.76	1.23E-03
4529	ENSGALT00000005755	2.58	2.73E-02	4597	ENSGALT00000007552	1.20	3.61E-02	4665	ENSGALT00000009939	3.23	1.10E-03
4530	ENSGALT00000005781	2.98	4.78E-03	4598	ENSGALT00000007557	7.07	7.12E-05	4666	ENSGALT00000009955	5.36	1.02E-03
4531	ENSGALT00000005789	4.72	2.41E-03	4599	ENSGALT00000007567	1.84	1.82E-02	4667	ENSGALT00000009979	2.55	1.90E-03
4532	ENSGALT00000005838	3.88	2.19E-02	4600	ENSGALT00000007577	5.10	7.94E-04	4668	ENSGALT00000010070	4.99	1.08E-02
4533	ENSGALT00000005938	1.35	1.21E-02	4601	ENSGALT00000007608	2.44	4.78E-02	4669	ENSGALT00000010131	4.88	5.35E-03
4534	ENSGALT00000006013	3.94	8.07E-03	4602	ENSGALT00000007643	5.39	4.19E-03	4670	ENSGALT00000010137	2.57	6.15E-03
4535	ENSGALT00000006033	5.22	2.85E-04	4603	ENSGALT00000007652	3.55	1.62E-03	4671	ENSGALT00000010145	3.57	1.65E-02
4536	ENSGALT00000006065	5.42	3.02E-03	4604	ENSGALT00000007752	2.20	1.38E-03	4672	ENSGALT00000010154	4.91	5.87E-04
4537	ENSGALT00000006090	3.73	1.76E-02	4605	ENSGALT00000007766	3.40	2.51E-03	4673	ENSGALT00000010165	3.43	6.37E-03
4538	ENSGALT00000006105	1.70	2.46E-02	4606	ENSGALT00000007807	3.09	1.06E-02	4674	ENSGALT00000010189	5.55	2.74E-05
4539	ENSGALT00000006106	4.20	3.00E-03	4607	ENSGALT00000007819	4.46	2.97E-03	4675	ENSGALT00000010226	1.60	5.22E-02
4540	ENSGALT00000006113	5.35	1.15E-04	4608	ENSGALT00000007821	5.86	1.62E-03	4676	ENSGALT00000010238	2.52	3.81E-03
4541	ENSGALT00000006128	5.23	9.68E-04	4609	ENSGALT00000007843	8.47	5.34E-05	4677	ENSGALT00000010247	3.30	8.49E-04
4542	ENSGALT00000006186	3.47	2.97E-04	4610	ENSGALT00000007883	2.46	7.98E-03	4678	ENSGALT00000010269	5.24	1.03E-02
4543	ENSGALT00000006228	1.97	1.32E-02	4611	ENSGALT00000007887	3.13	3.20E-02	4679	ENSGALT00000010282	5.45	4.89E-04
4544	ENSGALT00000006258	4.54	3.00E-03	4612	ENSGALT00000007904	1.65	1.09E-02	4680	ENSGALT00000010294	9.15	1.89E-03
4545	ENSGALT00000006276	3.61	8.01E-03	4613	ENSGALT00000007973	4.43	2.92E-02	4681	ENSGALT00000010368	2.44	1.07E-02
4546	ENSGALT00000006313	3.40	1.92E-04	4614	ENSGALT00000007999	3.14	1.24E-02	4682	ENSGALT00000010402	3.48	1.94E-03
4547	ENSGALT00000006344	3.35	1.82E-03	4615	ENSGALT00000008018	4.78	7.49E-03	4683	ENSGALT00000010411	2.12	2.58E-02
4548	ENSGALT00000006350	2.88	5.79E-03	4616	ENSGALT00000008040	1.07	8.95E-02	4684	ENSGALT00000010483	4.47	1.21E-02
4549	ENSGALT00000006388	3.05	5.14E-02	4617	ENSGALT00000008061	4.59	1.88E-03	4685	ENSGALT00000010495	3.93	9.26E-03
4550	ENSGALT00000006413	4.47	2.23E-02	4618	ENSGALT00000008074	1.41	9.69E-03	4686	ENSGALT00000010510	4.50	8.06E-04
4551	ENSGALT00000006421	1.79	3.43E-02	4619	ENSGALT00000008139	2.18	1.90E-03	4687	ENSGALT00000010562	2.16	1.67E-02
4552	ENSGALT00000006433	1.77	8.02E-02	4620	ENSGALT00000008218	1.13	6.49E-02	4688	ENSGALT00000010573	1.86	2.18E-02
4553	ENSGALT00000006473	3.09	5.75E-03	4621	ENSGALT00000008266	4.08	2.81E-03	4689	ENSGALT00000010578	3.08	1.92E-03
4554	ENSGALT00000006487	2.74	2.71E-03	4622	ENSGALT00000008309	3.56	4.62E-03	4690	ENSGALT00000010583	6.73	1.85E-03
4555	ENSGALT00000006507	1.93	8.14E-03	4623	ENSGALT00000008310	5.56	4.68E-05	4691	ENSGALT00000010585	5.16	1.48E-03

4692	ENSGALT00000010590	3.49	3.79E-03	4760	ENSGALT00000012332	4.36	1.41E-02	4828	ENSGALT00000014353	6.92	6.17E-03
4693	ENSGALT00000010633	3.04	2.98E-03	4761	ENSGALT00000012368	1.86	2.95E-02	4829	ENSGALT00000014354	5.91	4.08E-05
4694	ENSGALT00000010640	1.28	7.75E-04	4762	ENSGALT00000012413	2.79	9.45E-03	4830	ENSGALT00000014392	1.90	3.09E-03
4695	ENSGALT00000010648	10.51	3.29E-03	4763	ENSGALT00000012451	5.23	1.33E-02	4831	ENSGALT00000014426	4.14	3.58E-03
4696	ENSGALT00000010664	1.37	6.28E-03	4764	ENSGALT00000012463	5.35	1.23E-02	4832	ENSGALT00000014429	2.10	5.92E-05
4697	ENSGALT00000010721	3.05	3.52E-03	4765	ENSGALT00000012508	2.89	2.86E-03	4833	ENSGALT00000014496	6.03	2.54E-03
4698	ENSGALT00000010732	1.37	2.95E-03	4766	ENSGALT00000012509	1.89	4.14E-02	4834	ENSGALT00000014498	2.31	1.45E-03
4699	ENSGALT00000010736	2.93	2.21E-03	4767	ENSGALT00000012514	1.92	3.38E-03	4835	ENSGALT00000014512	2.41	6.13E-03
4700	ENSGALT00000010795	3.69	6.31E-03	4768	ENSGALT00000012528	4.26	1.00E-03	4836	ENSGALT00000014537	4.10	3.21E-03
4701	ENSGALT00000010816	6.15	1.18E-02	4769	ENSGALT00000012554	4.99	1.18E-03	4837	ENSGALT00000014554	6.37	5.30E-03
4702	ENSGALT00000010852	2.30	3.56E-02	4770	ENSGALT00000012557	6.07	8.29E-05	4838	ENSGALT00000014555	2.93	1.49E-03
4703	ENSGALT00000010863	2.57	2.75E-03	4771	ENSGALT00000012664	3.08	2.86E-03	4839	ENSGALT00000014575	4.65	2.27E-05
4704	ENSGALT00000010867	3.90	7.26E-03	4772	ENSGALT00000012674	3.08	1.12E-03	4840	ENSGALT00000014610	5.48	2.44E-03
4705	ENSGALT00000010872	2.38	1.53E-02	4773	ENSGALT00000012676	6.46	4.33E-04	4841	ENSGALT00000014626	5.30	1.46E-03
4706	ENSGALT00000010901	1.48	5.74E-03	4774	ENSGALT00000012682	2.85	1.33E-03	4842	ENSGALT00000014630	2.79	9.45E-04
4707	ENSGALT00000010905	3.70	1.77E-03	4775	ENSGALT00000012704	4.45	4.61E-04	4843	ENSGALT00000014637	2.26	7.54E-05
4708	ENSGALT00000010959	4.36	5.34E-02	4776	ENSGALT00000012743	4.31	1.62E-03	4844	ENSGALT00000014649	3.62	3.32E-04
4709	ENSGALT00000010966	4.74	1.64E-04	4777	ENSGALT00000012744	9.38	2.20E-04	4845	ENSGALT00000014662	2.00	7.63E-03
4710	ENSGALT00000010967	1.34	5.12E-03	4778	ENSGALT00000012753	4.47	3.35E-03	4846	ENSGALT00000014735	3.18	5.00E-04
4711	ENSGALT00000011010	4.65	1.27E-02	4779	ENSGALT00000012754	2.34	1.06E-02	4847	ENSGALT00000014739	1.58	1.94E-02
4712	ENSGALT00000011018	3.62	1.21E-03	4780	ENSGALT00000012782	3.95	2.94E-03	4848	ENSGALT00000014741	3.89	2.31E-03
4713	ENSGALT00000011022	1.08	3.50E-02	4781	ENSGALT00000012786	5.04	4.84E-04	4849	ENSGALT00000014759	3.92	3.35E-02
4714	ENSGALT00000011032	2.19	6.89E-03	4782	ENSGALT00000012861	2.69	2.08E-03	4850	ENSGALT00000014769	2.47	4.78E-03
4715	ENSGALT00000011145	3.27	4.62E-03	4783	ENSGALT00000012864	4.18	4.15E-03	4851	ENSGALT00000014791	5.37	8.35E-04
4716	ENSGALT00000011151	2.25	1.21E-03	4784	ENSGALT00000012908	2.45	7.34E-03	4852	ENSGALT00000014816	5.57	6.05E-03
4717	ENSGALT00000011227	1.66	5.91E-03	4785	ENSGALT00000012961	1.67	3.46E-03	4853	ENSGALT00000014835	3.14	4.81E-05
4718	ENSGALT00000011281	3.10	1.74E-03	4786	ENSGALT00000012965	2.89	1.86E-02	4854	ENSGALT00000014843	4.97	8.12E-04
4719	ENSGALT00000011318	5.31	9.17E-04	4787	ENSGALT00000012990	2.27	6.98E-03	4855	ENSGALT00000014847	6.59	5.57E-03
4720	ENSGALT00000011319	2.68	2.27E-07	4788	ENSGALT00000013028	2.35	7.77E-03	4856	ENSGALT00000014850	3.66	1.30E-04
4721	ENSGALT00000011341	1.75	2.30E-02	4789	ENSGALT00000013031	3.11	6.26E-04	4857	ENSGALT00000014859	1.68	1.14E-01
4722	ENSGALT00000011377	4.80	1.03E-04	4790	ENSGALT00000013058	5.80	1.20E-03	4858	ENSGALT00000014871	2.04	4.26E-02
4723	ENSGALT00000011378	2.02	1.48E-02	4791	ENSGALT00000013120	3.89	5.86E-06	4859	ENSGALT00000014889	3.54	7.16E-04
4724	ENSGALT00000011379	4.62	3.53E-03	4792	ENSGALT00000013148	4.33	4.15E-03	4860	ENSGALT00000014930	5.92	1.34E-03
4725	ENSGALT00000011380	2.59	5.35E-03	4793	ENSGALT00000013205	1.96	1.30E-02	4861	ENSGALT00000014934	1.98	2.82E-03
4726	ENSGALT00000011413	4.20	2.38E-03	4794	ENSGALT00000013206	2.08	2.98E-03	4862	ENSGALT00000014945	7.38	2.58E-03
4727	ENSGALT00000011421	3.29	3.10E-03	4795	ENSGALT00000013232	4.22	2.11E-03	4863	ENSGALT00000014963	10.38	9.47E-04
4728	ENSGALT00000011429	2.14	4.37E-04	4796	ENSGALT00000013266	1.04	1.22E-03	4864	ENSGALT00000014968	5.68	5.88E-04
4729	ENSGALT00000011522	6.65	8.31E-03	4797	ENSGALT00000013296	5.65	1.25E-03	4865	ENSGALT00000014980	6.44	1.33E-04
4730	ENSGALT00000011537	5.97	7.05E-04	4798	ENSGALT00000013312	4.01	2.18E-03	4866	ENSGALT00000014994	4.67	2.26E-03
4731	ENSGALT00000011558	4.57	8.11E-04	4799	ENSGALT00000013353	8.93	2.80E-05	4867	ENSGALT00000014995	3.06	3.39E-03
4732	ENSGALT00000011570	1.36	2.11E-02	4800	ENSGALT00000013389	2.29	3.08E-02	4868	ENSGALT00000015007	5.52	4.79E-03
4733	ENSGALT00000011599	1.19	6.35E-03	4801	ENSGALT00000013408	2.76	1.14E-02	4869	ENSGALT00000015039	1.35	2.91E-02
4734	ENSGALT00000011627	4.20	4.67E-04	4802	ENSGALT00000013443	4.68	2.10E-03	4870	ENSGALT00000015042	4.35	1.32E-03
4735	ENSGALT00000011659	3.45	1.19E-03	4803	ENSGALT00000013502	2.42	3.56E-03	4871	ENSGALT00000015057	3.10	2.92E-03
4736	ENSGALT00000011664	7.21	5.07E-03	4804	ENSGALT00000013533	1.70	2.92E-03	4872	ENSGALT00000015193	2.74	9.17E-03
4737	ENSGALT00000011701	1.36	2.52E-03	4805	ENSGALT00000013580	2.14	2.18E-02	4873	ENSGALT00000015238	1.97	2.12E-02
4738	ENSGALT00000011702	2.09	1.44E-01	4806	ENSGALT00000013594	1.46	1.63E-03	4874	ENSGALT00000015339	3.45	5.02E-03
4739	ENSGALT00000011721	7.22	1.10E-03	4807	ENSGALT00000013619	4.94	4.62E-04	4875	ENSGALT00000015366	1.06	8.66E-03
4740	ENSGALT00000011730	3.86	3.90E-03	4808	ENSGALT00000013653	1.39	2.66E-02	4876	ENSGALT00000015476	3.52	6.83E-03
4741	ENSGALT00000011736	1.98	7.71E-02	4809	ENSGALT00000013764	1.67	1.82E-02	4877	ENSGALT00000015540	1.96	2.15E-02
4742	ENSGALT00000011741	3.74	9.17E-04	4810	ENSGALT00000013765	2.16	8.29E-03	4878	ENSGALT00000015543	3.28	9.24E-04
4743	ENSGALT00000011823	2.42	2.33E-02	4811	ENSGALT00000013799	2.64	6.00E-03	4879	ENSGALT00000015557	2.09	1.47E-03
4744	ENSGALT00000011839	4.27	3.28E-04	4812	ENSGALT00000013826	5.85	2.34E-05	4880	ENSGALT00000015602	2.67	1.39E-02
4745	ENSGALT00000011840	2.78	3.97E-03	4813	ENSGALT00000013845	6.64	2.49E-04	4881	ENSGALT00000015618	1.68	3.09E-02
4746	ENSGALT00000011913	3.59	1.94E-04	4814	ENSGALT00000013846	6.02	3.33E-03	4882	ENSGALT00000015629	2.79	4.17E-02
4747	ENSGALT00000011947	3.65	1.12E-02	4815	ENSGALT00000013855	2.22	2.91E-03	4883	ENSGALT00000015642	7.22	6.26E-03
4748	ENSGALT00000011994	5.23	1.22E-03	4816	ENSGALT00000013915	2.27	1.64E-03	4884	ENSGALT00000015652	2.34	4.56E-04
4749	ENSGALT00000012029	2.86	1.01E-02	4817	ENSGALT00000013922	1.50	7.20E-03	4885	ENSGALT00000015699	7.33	2.11E-03
4750	ENSGALT00000012032	3.61	2.29E-03	4818	ENSGALT00000014008	1.46	3.58E-03	4886	ENSGALT00000015710	5.36	8.88E-03
4751	ENSGALT00000012148	3.25	3.10E-03	4819	ENSGALT00000014059	6.31	4.27E-03	4887	ENSGALT00000015729	4.25	1.26E-03
4752	ENSGALT00000012208	3.53	1.66E-03	4820	ENSGALT00000014074	1.95	3.09E-02	4888	ENSGALT00000015759	7.45	2.23E-05
4753	ENSGALT00000012209	4.90	3.06E-03	4821	ENSGALT00000014078	5.01	1.73E-03	4889	ENSGALT00000015763	6.43	1.52E-04
4754	ENSGALT00000012214	3.15	2.16E-04	4822	ENSGALT00000014148	5.25	2.12E-03	4890	ENSGALT00000015779	4.73	5.51E-04
4755	ENSGALT00000012236	5.13	2.41E-05	4823	ENSGALT00000014161	2.13	3.95E-04	4891	ENSGALT00000015783	6.35	3.77E-03
4756	ENSGALT00000012256	3.42	5.36E-04	4824	ENSGALT00000014168	4.94	3.90E-04	4892	ENSGALT00000015804	1.26	6.28E-02
4757	ENSGALT00000012298	3.36	1.44E-02	4825	ENSGALT00000014188	8.33	3.77E-04	4893	ENSGALT00000015817	1.59	6.61E-03
4758	ENSGALT00000012309	6.58	2.39E-03	4826	ENSGALT00000014193	1.22	7.51E-02	4894	ENSGALT00000015850	1.61	1.68E-03
4759	ENSGALT00000012318	2.02	1.11E-02	4827	ENSGALT00000014259	1.78	3.26E-02	4895	ENSGALT00000015914	3.71	2.81E-03

4896	ENSGALT00000015931	9.00	2.38E-03	4964	ENSGALT00000018212	1.71	5.58E-02	5032	ENSGALT00000020394	2.97	1.01E-02
4897	ENSGALT00000016120	3.46	8.38E-03	4965	ENSGALT00000018322	3.22	4.35E-03	5033	ENSGALT00000020399	3.40	5.56E-04
4898	ENSGALT00000016140	5.77	2.24E-03	4966	ENSGALT00000018334	6.80	3.47E-05	5034	ENSGALT00000020409	4.56	5.74E-04
4899	ENSGALT00000016183	3.23	8.62E-03	4967	ENSGALT00000018383	1.50	1.76E-03	5035	ENSGALT00000020413	2.97	1.55E-03
4900	ENSGALT00000016206	3.41	8.92E-04	4968	ENSGALT00000018384	4.76	1.98E-03	5036	ENSGALT00000020428	7.00	2.00E-03
4901	ENSGALT00000016238	4.86	1.47E-03	4969	ENSGALT00000018451	2.92	7.55E-04	5037	ENSGALT00000020467	1.67	8.55E-03
4902	ENSGALT00000016251	4.90	4.23E-03	4970	ENSGALT00000018496	6.67	1.94E-03	5038	ENSGALT00000020468	5.82	6.02E-03
4903	ENSGALT00000016265	2.72	4.98E-03	4971	ENSGALT00000018508	3.05	2.19E-03	5039	ENSGALT00000020505	6.52	7.58E-03
4904	ENSGALT00000016413	6.16	1.11E-04	4972	ENSGALT00000018524	5.06	3.99E-04	5040	ENSGALT00000020541	6.50	3.42E-04
4905	ENSGALT00000016416	8.08	2.74E-04	4973	ENSGALT00000018549	4.72	2.84E-04	5041	ENSGALT00000020586	3.79	6.21E-03
4906	ENSGALT00000016444	2.05	3.07E-02	4974	ENSGALT00000018567	5.05	1.25E-02	5042	ENSGALT00000020616	4.22	3.06E-03
4907	ENSGALT00000016463	6.36	3.25E-04	4975	ENSGALT00000018618	3.65	9.76E-04	5043	ENSGALT00000020806	1.67	2.29E-02
4908	ENSGALT00000016495	1.72	1.56E-03	4976	ENSGALT00000018619	6.03	1.36E-04	5044	ENSGALT00000020824	3.91	2.00E-04
4909	ENSGALT00000016549	3.03	1.16E-03	4977	ENSGALT00000018733	3.49	5.49E-03	5045	ENSGALT00000020948	5.40	4.80E-03
4910	ENSGALT00000016605	2.89	2.06E-02	4978	ENSGALT00000018740	4.17	2.92E-03	5046	ENSGALT00000020979	2.26	1.47E-03
4911	ENSGALT00000016608	1.02	6.94E-04	4979	ENSGALT00000018784	2.81	2.70E-03	5047	ENSGALT00000021084	7.48	1.70E-05
4912	ENSGALT00000016609	3.10	2.92E-03	4980	ENSGALT00000018829	4.04	4.36E-04	5048	ENSGALT00000021109	3.62	2.68E-03
4913	ENSGALT00000016646	3.83	5.38E-03	4981	ENSGALT00000018841	2.98	5.05E-03	5049	ENSGALT00000021120	2.79	1.62E-03
4914	ENSGALT00000016654	4.06	2.07E-03	4982	ENSGALT00000018891	3.76	2.79E-03	5050	ENSGALT00000021121	4.56	4.32E-03
4915	ENSGALT00000016672	5.65	2.59E-03	4983	ENSGALT00000018906	3.19	7.86E-03	5051	ENSGALT00000021187	3.68	1.23E-02
4916	ENSGALT00000016676	3.57	4.83E-03	4984	ENSGALT00000018918	6.11	2.78E-03	5052	ENSGALT00000021236	7.55	1.08E-03
4917	ENSGALT00000016692	1.70	2.54E-03	4985	ENSGALT00000018922	2.61	3.75E-03	5053	ENSGALT00000021245	5.94	9.31E-04
4918	ENSGALT00000016740	3.27	1.81E-03	4986	ENSGALT00000018935	1.26	6.17E-04	5054	ENSGALT00000021249	2.42	9.90E-04
4919	ENSGALT00000016901	6.75	7.11E-05	4987	ENSGALT00000018953	3.88	1.04E-04	5055	ENSGALT00000021262	3.49	2.55E-03
4920	ENSGALT00000016904	5.81	1.32E-02	4988	ENSGALT00000019071	3.34	1.39E-02	5056	ENSGALT00000021290	2.00	5.38E-04
4921	ENSGALT00000016913	1.57	4.90E-02	4989	ENSGALT00000019133	1.59	2.72E-02	5057	ENSGALT00000021316	2.93	3.75E-03
4922	ENSGALT00000016927	6.18	1.23E-03	4990	ENSGALT00000019151	3.71	3.47E-03	5058	ENSGALT00000021320	2.23	7.08E-03
4923	ENSGALT00000017050	2.50	2.07E-02	4991	ENSGALT00000019218	2.08	1.29E-02	5059	ENSGALT00000021349	4.21	9.91E-03
4924	ENSGALT00000017079	5.35	1.45E-02	4992	ENSGALT00000019240	8.33	1.43E-04	5060	ENSGALT00000021357	1.99	1.84E-02
4925	ENSGALT00000017193	1.58	1.44E-02	4993	ENSGALT00000019269	1.61	9.11E-03	5061	ENSGALT00000021368	3.07	5.61E-03
4926	ENSGALT00000017213	1.93	1.57E-01	4994	ENSGALT00000019298	5.71	3.15E-03	5062	ENSGALT00000021463	2.47	1.53E-02
4927	ENSGALT00000017233	3.86	1.48E-03	4995	ENSGALT00000019456	4.97	4.88E-03	5063	ENSGALT00000021510	2.46	6.91E-04
4928	ENSGALT00000017236	3.41	2.22E-03	4996	ENSGALT00000019506	3.67	9.81E-04	5064	ENSGALT00000021522	6.35	1.20E-02
4929	ENSGALT00000017344	6.06	3.97E-02	4997	ENSGALT00000019540	10.03	1.91E-05	5065	ENSGALT00000021527	2.95	1.28E-03
4930	ENSGALT00000017347	3.86	2.50E-03	4998	ENSGALT00000019592	3.22	4.74E-03	5066	ENSGALT00000021595	3.43	6.12E-06
4931	ENSGALT00000017386	1.26	3.04E-02	4999	ENSGALT00000019597	1.99	4.79E-02	5067	ENSGALT00000021597	3.81	2.00E-03
4932	ENSGALT00000017451	4.03	1.10E-02	5000	ENSGALT00000019607	3.59	2.43E-03	5068	ENSGALT00000021600	1.16	3.36E-02
4933	ENSGALT00000017476	2.42	4.66E-03	5001	ENSGALT00000019630	4.22	7.69E-04	5069	ENSGALT00000021603	2.05	9.81E-03
4934	ENSGALT00000017489	4.35	2.90E-03	5002	ENSGALT00000019656	4.67	1.96E-03	5070	ENSGALT00000021604	3.39	4.11E-03
4935	ENSGALT00000017518	6.92	7.34E-05	5003	ENSGALT00000019661	2.12	2.99E-03	5071	ENSGALT00000021606	2.96	4.14E-03
4936	ENSGALT00000017572	7.28	3.40E-04	5004	ENSGALT00000019669	1.69	3.51E-02	5072	ENSGALT00000021609	2.82	2.83E-03
4937	ENSGALT00000017611	5.20	7.56E-05	5005	ENSGALT00000019725	2.92	1.20E-04	5073	ENSGALT00000021615	4.26	8.26E-03
4938	ENSGALT00000017612	4.47	1.97E-03	5006	ENSGALT00000019735	6.55	1.89E-04	5074	ENSGALT00000021628	2.54	2.84E-02
4939	ENSGALT00000017672	5.80	4.12E-03	5007	ENSGALT00000019758	3.38	4.11E-02	5075	ENSGALT00000021642	8.36	1.08E-03
4940	ENSGALT00000017675	2.62	2.11E-02	5008	ENSGALT00000019775	5.86	4.44E-03	5076	ENSGALT00000021678	4.10	1.15E-03
4941	ENSGALT00000017676	1.45	1.19E-02	5009	ENSGALT00000019833	9.03	1.19E-04	5077	ENSGALT00000021682	2.34	2.35E-03
4942	ENSGALT00000017686	6.86	1.83E-03	5010	ENSGALT00000019836	3.17	4.15E-03	5078	ENSGALT00000021689	2.60	6.74E-03
4943	ENSGALT00000017697	6.09	2.94E-03	5011	ENSGALT00000019944	1.12	6.67E-03	5079	ENSGALT00000021696	1.67	9.65E-03
4944	ENSGALT00000017734	3.26	8.14E-04	5012	ENSGALT00000019953	4.60	9.00E-03	5080	ENSGALT00000021745	3.27	4.70E-03
4945	ENSGALT00000017738	5.02	3.49E-04	5013	ENSGALT00000019963	1.15	4.71E-03	5081	ENSGALT00000021749	5.80	2.05E-05
4946	ENSGALT00000017748	2.37	6.13E-03	5014	ENSGALT00000019997	6.68	9.91E-04	5082	ENSGALT00000021756	8.28	4.34E-03
4947	ENSGALT00000017750	1.26	1.41E-02	5015	ENSGALT00000020003	6.14	4.84E-03	5083	ENSGALT00000021758	3.02	2.88E-03
4948	ENSGALT00000017789	1.86	9.65E-03	5016	ENSGALT00000020040	4.50	4.53E-03	5084	ENSGALT00000021774	1.28	2.47E-02
4949	ENSGALT00000017810	4.53	1.59E-03	5017	ENSGALT00000020052	4.58	1.27E-02	5085	ENSGALT00000021784	7.03	1.85E-04
4950	ENSGALT00000017815	1.83	3.88E-03	5018	ENSGALT00000020055	8.83	1.99E-03	5086	ENSGALT00000021794	4.82	1.35E-03
4951	ENSGALT00000017818	3.81	1.84E-04	5019	ENSGALT00000020058	5.22	2.70E-03	5087	ENSGALT00000021838	3.56	5.01E-03
4952	ENSGALT00000017904	3.50	1.44E-03	5020	ENSGALT00000020117	1.14	1.15E-01	5088	ENSGALT00000021841	5.37	9.39E-03
4953	ENSGALT00000017918	2.31	3.22E-03	5021	ENSGALT00000020127	2.16	2.57E-02	5089	ENSGALT00000021842	4.10	5.96E-03
4954	ENSGALT00000017921	5.37	1.42E-03	5022	ENSGALT00000020173	3.83	6.53E-03	5090	ENSGALT00000021853	1.11	2.59E-02
4955	ENSGALT00000017970	2.86	3.83E-03	5023	ENSGALT00000020179	5.15	1.48E-01	5091	ENSGALT00000021862	4.74	1.50E-03
4956	ENSGALT00000018040	2.17	6.22E-04	5024	ENSGALT00000020220	5.37	4.60E-03	5092	ENSGALT00000021878	7.02	7.37E-04
4957	ENSGALT00000018055	7.83	9.93E-04	5025	ENSGALT00000020227	5.59	1.40E-03	5093	ENSGALT00000021903	4.69	6.29E-03
4958	ENSGALT00000018056	1.49	2.31E-02	5026	ENSGALT00000020255	3.72	2.03E-03	5094	ENSGALT00000021923	4.16	2.18E-04
4959	ENSGALT00000018117	4.27	5.21E-04	5027	ENSGALT00000020296	3.32	1.50E-03	5095	ENSGALT00000021960	5.20	1.25E-03
4960	ENSGALT00000018128	2.13	2.13E-02	5028	ENSGALT00000020313	3.53	2.24E-03	5096	ENSGALT00000021976	4.46	1.16E-05
4961	ENSGALT00000018143	7.58	1.75E-03	5029	ENSGALT00000020342	5.18	1.59E-02	5097	ENSGALT00000021991	5.27	4.49E-03
4962	ENSGALT00000018191	4.29	1.49E-02	5030	ENSGALT00000020381	2.68	2.13E-03	5098	ENSGALT00000022007	2.37	1.14E-04
4963	ENSGALT00000018194	6.81	1.78E-03	5031	ENSGALT00000020385	4.97	3.97E-05	5099	ENSGALT00000022016	8.35	1.96E-05

5100	ENSGALT00000022019	1.78	2.01E-02	5168	ENSGALT00000023666	2.33	1.35E-03	5236	ENSGALT00000025358	4.25	1.04E-02
5101	ENSGALT00000022024	8.59	6.77E-03	5169	ENSGALT00000023689	3.09	3.10E-03	5237	ENSGALT00000025359	3.02	1.62E-03
5102	ENSGALT00000022037	2.73	3.44E-03	5170	ENSGALT00000023709	2.90	2.48E-03	5238	ENSGALT00000025375	1.88	1.46E-02
5103	ENSGALT00000022067	1.59	3.32E-02	5171	ENSGALT00000023730	4.28	5.46E-03	5239	ENSGALT00000025383	6.53	9.72E-04
5104	ENSGALT00000022146	2.11	3.47E-03	5172	ENSGALT00000023760	5.30	1.02E-03	5240	ENSGALT00000025435	2.43	4.44E-02
5105	ENSGALT00000022175	5.39	1.85E-03	5173	ENSGALT00000023784	3.62	2.08E-03	5241	ENSGALT00000025472	4.17	8.19E-03
5106	ENSGALT00000022226	5.36	2.50E-02	5174	ENSGALT00000023791	4.69	1.94E-03	5242	ENSGALT00000025504	3.96	7.88E-02
5107	ENSGALT00000022247	1.45	9.57E-04	5175	ENSGALT00000023798	4.24	4.79E-04	5243	ENSGALT00000025595	3.21	5.88E-03
5108	ENSGALT00000022260	1.96	2.59E-03	5176	ENSGALT00000023805	4.31	2.31E-03	5244	ENSGALT00000025606	2.20	1.90E-02
5109	ENSGALT00000022276	2.99	1.83E-02	5177	ENSGALT00000023808	3.21	5.14E-03	5245	ENSGALT00000025610	1.27	6.16E-04
5110	ENSGALT00000022320	2.20	5.79E-03	5178	ENSGALT00000023811	3.97	3.08E-03	5246	ENSGALT00000025615	5.13	1.84E-03
5111	ENSGALT00000022328	3.92	3.64E-04	5179	ENSGALT00000023856	3.01	1.87E-03	5247	ENSGALT00000025682	8.40	8.25E-04
5112	ENSGALT00000022338	1.33	2.23E-02	5180	ENSGALT00000023885	4.21	1.06E-02	5248	ENSGALT00000025710	2.59	4.21E-03
5113	ENSGALT00000022347	2.66	2.51E-03	5181	ENSGALT00000023927	3.05	7.02E-03	5249	ENSGALT00000025722	1.81	2.80E-03
5114	ENSGALT00000022354	2.28	1.67E-02	5182	ENSGALT00000023928	2.17	4.86E-02	5250	ENSGALT00000025740	2.76	4.56E-03
5115	ENSGALT00000022355	6.24	2.81E-03	5183	ENSGALT00000023929	1.54	1.22E-03	5251	ENSGALT00000025781	4.11	3.93E-03
5116	ENSGALT00000022391	8.74	2.72E-05	5184	ENSGALT00000023965	5.59	2.09E-03	5252	ENSGALT00000025808	2.57	1.25E-02
5117	ENSGALT00000022427	3.52	3.29E-03	5185	ENSGALT00000023971	3.00	5.75E-03	5253	ENSGALT00000025879	3.03	5.58E-03
5118	ENSGALT00000022442	2.53	1.07E-04	5186	ENSGALT00000023998	4.62	1.86E-02	5254	ENSGALT00000025906	1.50	2.76E-02
5119	ENSGALT00000022448	3.42	3.07E-03	5187	ENSGALT00000024019	5.04	1.97E-03	5255	ENSGALT00000025913	4.34	2.64E-03
5120	ENSGALT00000022458	3.45	9.05E-04	5188	ENSGALT00000024069	1.77	2.45E-03	5256	ENSGALT00000025921	3.51	8.93E-04
5121	ENSGALT00000022529	3.01	5.98E-02	5189	ENSGALT00000024084	7.53	2.63E-03	5257	ENSGALT00000025935	2.24	2.30E-03
5122	ENSGALT00000022557	2.53	8.40E-02	5190	ENSGALT00000024089	1.10	1.00E-02	5258	ENSGALT00000025944	6.71	2.38E-03
5123	ENSGALT00000022577	4.72	2.60E-03	5191	ENSGALT00000024112	1.91	3.41E-03	5259	ENSGALT00000025946	4.86	1.42E-03
5124	ENSGALT00000022602	3.63	5.30E-03	5192	ENSGALT00000024133	4.89	4.51E-03	5260	ENSGALT00000025964	3.40	5.84E-03
5125	ENSGALT00000022620	1.82	8.22E-03	5193	ENSGALT00000024157	4.21	1.79E-05	5261	ENSGALT00000025983	1.57	3.17E-03
5126	ENSGALT00000022627	3.08	8.97E-04	5194	ENSGALT00000024173	4.33	8.11E-03	5262	ENSGALT00000025998	3.49	1.46E-03
5127	ENSGALT00000022645	4.91	8.65E-04	5195	ENSGALT00000024193	4.27	7.65E-03	5263	ENSGALT00000026024	3.78	6.73E-03
5128	ENSGALT00000022661	4.20	6.43E-04	5196	ENSGALT00000024228	2.48	6.29E-03	5264	ENSGALT00000026028	3.54	5.02E-02
5129	ENSGALT00000022690	5.82	5.05E-04	5197	ENSGALT00000024242	3.90	5.89E-04	5265	ENSGALT00000026030	1.99	2.27E-02
5130	ENSGALT00000022692	4.14	1.78E-03	5198	ENSGALT00000024261	2.91	2.40E-02	5266	ENSGALT00000026059	1.66	1.72E-02
5131	ENSGALT00000022695	1.20	1.65E-03	5199	ENSGALT00000024294	1.19	6.93E-03	5267	ENSGALT00000026076	5.34	1.15E-02
5132	ENSGALT00000022720	4.07	2.03E-04	5200	ENSGALT00000024317	4.34	4.24E-03	5268	ENSGALT00000026105	2.84	1.62E-03
5133	ENSGALT00000022721	6.44	6.96E-04	5201	ENSGALT00000024326	3.48	1.32E-03	5269	ENSGALT00000026118	3.30	2.20E-02
5134	ENSGALT00000022758	5.21	1.19E-03	5202	ENSGALT00000024352	4.26	4.84E-03	5270	ENSGALT00000026121	4.60	1.42E-03
5135	ENSGALT00000022788	1.15	2.55E-02	5203	ENSGALT00000024363	1.92	2.09E-03	5271	ENSGALT00000026135	7.53	5.12E-03
5136	ENSGALT00000022821	3.96	8.94E-05	5204	ENSGALT00000024380	5.42	5.12E-03	5272	ENSGALT00000026159	1.44	3.99E-02
5137	ENSGALT00000022825	4.48	2.59E-04	5205	ENSGALT00000024480	1.13	6.83E-04	5273	ENSGALT00000026201	5.86	1.90E-02
5138	ENSGALT00000022869	9.68	2.38E-04	5206	ENSGALT00000024500	2.18	2.99E-03	5274	ENSGALT00000026217	1.94	2.44E-03
5139	ENSGALT00000022920	4.65	3.61E-03	5207	ENSGALT00000024511	4.02	5.17E-03	5275	ENSGALT00000026224	4.83	1.24E-04
5140	ENSGALT00000022965	5.95	3.18E-04	5208	ENSGALT00000024524	6.98	9.32E-03	5276	ENSGALT00000026259	3.95	4.97E-03
5141	ENSGALT00000022973	1.43	3.54E-04	5209	ENSGALT00000024563	1.25	5.76E-03	5277	ENSGALT00000026271	6.44	7.08E-04
5142	ENSGALT00000023059	2.91	2.26E-03	5210	ENSGALT00000024595	6.01	2.52E-05	5278	ENSGALT00000026280	5.05	6.07E-04
5143	ENSGALT00000023064	2.14	3.68E-03	5211	ENSGALT00000024649	3.81	1.37E-03	5279	ENSGALT00000026281	3.96	6.40E-03
5144	ENSGALT00000023076	5.90	4.64E-04	5212	ENSGALT00000024665	6.11	8.71E-04	5280	ENSGALT00000026305	2.16	5.87E-03
5145	ENSGALT00000023079	4.61	3.92E-03	5213	ENSGALT00000024685	5.88	2.86E-04	5281	ENSGALT00000026362	1.87	4.31E-03
5146	ENSGALT00000023100	2.78	1.26E-02	5214	ENSGALT00000024704	4.27	4.95E-03	5282	ENSGALT00000026381	3.40	4.08E-03
5147	ENSGALT00000023109	1.89	6.34E-02	5215	ENSGALT00000024728	2.56	1.61E-03	5283	ENSGALT00000026392	3.19	9.95E-03
5148	ENSGALT00000023171	2.18	2.65E-02	5216	ENSGALT00000024816	6.03	3.76E-03	5284	ENSGALT00000026423	1.16	3.80E-03
5149	ENSGALT00000023224	3.65	6.33E-03	5217	ENSGALT00000024824	2.61	4.57E-04	5285	ENSGALT00000026604	6.29	1.56E-03
5150	ENSGALT00000023226	5.95	3.64E-04	5218	ENSGALT00000024845	1.36	2.68E-02	5286	ENSGALT00000026605	6.78	1.84E-03
5151	ENSGALT00000023253	1.72	2.76E-03	5219	ENSGALT00000024912	2.82	5.95E-04	5287	ENSGALT00000026657	4.10	5.12E-03
5152	ENSGALT00000023264	1.66	4.54E-02	5220	ENSGALT00000024996	3.74	6.49E-03	5288	ENSGALT00000026660	2.95	6.13E-03
5153	ENSGALT00000023275	4.71	4.52E-04	5221	ENSGALT00000024997	6.58	1.18E-03	5289	ENSGALT00000026733	2.22	1.64E-02
5154	ENSGALT00000023285	3.40	2.35E-03	5222	ENSGALT00000024999	4.74	1.09E-03	5290	ENSGALT00000026739	5.68	1.98E-03
5155	ENSGALT00000023340	2.29	9.18E-03	5223	ENSGALT00000025015	1.54	2.48E-03	5291	ENSGALT00000026782	5.25	5.63E-04
5156	ENSGALT00000023352	3.18	1.29E-03	5224	ENSGALT00000025019	5.97	1.40E-02	5292	ENSGALT00000026785	4.49	2.67E-03
5157	ENSGALT00000023358	2.27	1.49E-02	5225	ENSGALT00000025042	2.50	2.09E-02	5293	ENSGALT00000026795	2.10	1.01E-02
5158	ENSGALT00000023413	1.80	1.70E-02	5226	ENSGALT00000025091	2.93	7.36E-03	5294	ENSGALT00000026815	1.38	5.90E-03
5159	ENSGALT00000023455	3.31	3.28E-03	5227	ENSGALT00000025094	2.26	1.90E-04	5295	ENSGALT00000026873	1.46	4.67E-02
5160	ENSGALT00000023479	2.90	2.78E-03	5228	ENSGALT00000025103	4.59	3.37E-03	5296	ENSGALT00000026914	1.18	1.03E-01
5161	ENSGALT00000023486	2.70	5.45E-05	5229	ENSGALT00000025131	4.50	1.92E-04	5297	ENSGALT00000026942	3.90	4.14E-03
5162	ENSGALT00000023498	5.79	1.57E-03	5230	ENSGALT00000025150	2.34	5.32E-03	5298	ENSGALT00000027110	1.60	1.21E-02
5163	ENSGALT00000023518	1.34	4.44E-03	5231	ENSGALT00000025160	2.96	3.38E-03	5299	ENSGALT00000027134	4.87	7.77E-04
5164	ENSGALT00000023520	5.96	4.51E-04	5232	ENSGALT00000025161	2.42	2.30E-03	5300	ENSGALT00000027168	3.09	3.95E-03
5165	ENSGALT00000023577	1.46	7.54E-03	5233	ENSGALT00000025162	1.21	6.42E-03	5301	ENSGALT00000027291	6.18	1.98E-04
5166	ENSGALT00000023596	2.53	1.08E-03	5234	ENSGALT00000025182	1.39	1.98E-02	5302	ENSGALT00000027325	5.87	1.30E-04
5167	ENSGALT00000023622	1.20	1.26E-02	5235	ENSGALT00000025241	1.86	1.31E-02	5303	ENSGALT00000027481	3.30	7.79E-03

5304	ENSGALT00000027515	1.69	3.15E-04	5372	ENSGALT00000029542	8.83	1.20E-04	5440	ENSGALT00000030732	2.17	3.08E-02
5305	ENSGALT00000027604	3.13	1.68E-03	5373	ENSGALT00000029557	4.26	2.88E-03	5441	ENSGALT00000030753	6.05	1.54E-04
5306	ENSGALT00000027611	1.44	1.55E-02	5374	ENSGALT00000029575	4.59	4.67E-03	5442	ENSGALT00000030760	5.58	1.56E-02
5307	ENSGALT00000027705	3.84	8.37E-03	5375	ENSGALT00000029588	2.90	9.19E-03	5443	ENSGALT00000030764	4.20	8.36E-03
5308	ENSGALT00000027722	1.27	5.33E-03	5376	ENSGALT00000029589	6.52	8.16E-04	5444	ENSGALT00000030790	1.69	2.67E-04
5309	ENSGALT00000027729	4.50	2.59E-02	5377	ENSGALT00000029605	3.14	1.18E-02	5445	ENSGALT00000030800	2.57	9.42E-03
5310	ENSGALT00000027761	5.00	6.00E-03	5378	ENSGALT00000029606	6.72	6.27E-03	5446	ENSGALT00000030804	2.23	1.12E-01
5311	ENSGALT00000027776	2.76	2.71E-04	5379	ENSGALT00000029619	7.23	2.40E-04	5447	ENSGALT00000030819	1.88	7.07E-03
5312	ENSGALT00000027812	1.23	6.50E-02	5380	ENSGALT00000029625	6.86	4.67E-03	5448	ENSGALT00000030832	5.00	4.20E-05
5313	ENSGALT00000027864	7.10	5.94E-04	5381	ENSGALT00000029642	5.65	3.11E-03	5449	ENSGALT00000030849	3.80	2.57E-03
5314	ENSGALT00000027891	4.52	5.71E-03	5382	ENSGALT00000029644	9.22	7.32E-05	5450	ENSGALT00000030856	2.38	1.75E-02
5315	ENSGALT00000027911	2.07	4.43E-03	5383	ENSGALT00000029648	4.56	4.30E-05	5451	ENSGALT00000030857	5.58	1.45E-03
5316	ENSGALT00000027916	1.64	1.23E-01	5384	ENSGALT00000029662	1.26	2.53E-03	5452	ENSGALT00000030864	4.19	2.74E-02
5317	ENSGALT00000027921	3.04	4.19E-03	5385	ENSGALT00000029675	4.52	3.33E-03	5453	ENSGALT00000030905	7.25	1.55E-04
5318	ENSGALT00000027936	3.15	1.93E-03	5386	ENSGALT00000029681	4.59	6.64E-03	5454	ENSGALT00000030922	4.56	4.04E-03
5319	ENSGALT00000027947	4.84	3.53E-04	5387	ENSGALT00000029688	1.57	5.14E-03	5455	ENSGALT00000030941	4.17	8.32E-03
5320	ENSGALT00000027961	2.23	7.01E-03	5388	ENSGALT00000029699	3.89	7.07E-04	5456	ENSGALT00000030944	3.96	7.56E-03
5321	ENSGALT00000027981	3.28	4.79E-04	5389	ENSGALT00000029799	11.39	1.25E-03	5457	ENSGALT00000030960	3.48	6.98E-03
5322	ENSGALT00000027994	3.40	2.08E-03	5390	ENSGALT00000029806	2.41	6.13E-02	5458	ENSGALT00000030969	4.32	2.81E-02
5323	ENSGALT00000028008	4.10	1.14E-02	5391	ENSGALT00000029811	5.03	4.86E-04	5459	ENSGALT00000031023	4.39	3.24E-03
5324	ENSGALT00000028013	3.55	1.51E-01	5392	ENSGALT00000029844	6.58	2.22E-04	5460	ENSGALT00000031037	1.37	1.71E-03
5325	ENSGALT00000028019	2.27	4.81E-03	5393	ENSGALT00000029851	5.79	1.21E-03	5461	ENSGALT00000031083	5.27	1.90E-03
5326	ENSGALT00000028020	4.57	1.57E-03	5394	ENSGALT00000029861	4.33	1.62E-03	5462	ENSGALT00000031085	2.67	3.49E-04
5327	ENSGALT00000028061	1.31	2.47E-03	5395	ENSGALT00000029865	6.84	2.48E-04	5463	ENSGALT00000031098	6.03	3.14E-03
5328	ENSGALT00000028066	3.65	2.25E-03	5396	ENSGALT00000029868	8.88	1.53E-03	5464	ENSGALT00000031100	4.47	6.32E-04
5329	ENSGALT00000028092	2.44	3.23E-03	5397	ENSGALT00000029878	1.49	1.59E-02	5465	ENSGALT00000031128	1.16	3.43E-02
5330	ENSGALT00000028093	1.59	7.74E-02	5398	ENSGALT00000029890	7.24	2.08E-03	5466	ENSGALT00000031150	2.13	1.82E-02
5331	ENSGALT00000028155	7.82	2.04E-04	5399	ENSGALT00000029897	8.47	9.01E-04	5467	ENSGALT00000031178	4.29	2.59E-03
5332	ENSGALT00000028198	9.33	1.25E-03	5400	ENSGALT00000029899	3.76	8.79E-04	5468	ENSGALT00000031203	2.29	3.19E-02
5333	ENSGALT00000028209	3.86	1.94E-03	5401	ENSGALT00000029908	6.70	7.24E-04	5469	ENSGALT00000031213	9.40	1.79E-04
5334	ENSGALT00000028251	7.79	1.18E-03	5402	ENSGALT00000029916	3.05	2.91E-02	5470	ENSGALT00000031230	2.94	2.25E-03
5335	ENSGALT00000028252	1.13	9.57E-03	5403	ENSGALT00000029929	8.39	8.29E-04	5471	ENSGALT00000031237	1.28	5.15E-02
5336	ENSGALT00000028253	8.84	7.90E-04	5404	ENSGALT00000029983	1.22	3.67E-03	5472	ENSGALT00000031243	2.94	1.14E-02
5337	ENSGALT00000028260	4.37	4.30E-03	5405	ENSGALT00000029993	7.65	7.86E-04	5473	ENSGALT00000031257	2.82	5.64E-03
5338	ENSGALT00000028263	8.58	1.21E-03	5406	ENSGALT00000029996	1.86	3.23E-02	5474	ENSGALT00000031282	3.20	1.14E-02
5339	ENSGALT00000028295	6.49	1.14E-03	5407	ENSGALT00000030013	3.66	7.51E-03	5475	ENSGALT00000031306	2.08	8.37E-03
5340	ENSGALT00000028298	3.01	1.94E-03	5408	ENSGALT00000030046	4.85	5.85E-04	5476	ENSGALT00000031316	3.92	1.06E-04
5341	ENSGALT00000028323	5.54	1.88E-03	5409	ENSGALT00000030050	5.40	4.62E-04	5477	ENSGALT00000031336	2.97	4.11E-03
5342	ENSGALT00000028342	4.60	2.05E-03	5410	ENSGALT00000030053	3.17	1.17E-02	5478	ENSGALT00000031356	3.63	1.82E-02
5343	ENSGALT00000028361	1.41	4.49E-03	5411	ENSGALT00000030057	5.50	6.12E-03	5479	ENSGALT00000031418	2.23	3.54E-04
5344	ENSGALT00000028363	6.78	2.32E-03	5412	ENSGALT00000030065	2.62	3.24E-04	5480	ENSGALT00000031437	5.18	1.09E-02
5345	ENSGALT00000028372	7.81	2.46E-04	5413	ENSGALT00000030076	5.46	3.84E-03	5481	ENSGALT00000031440	7.18	2.88E-03
5346	ENSGALT00000028385	2.43	5.24E-02	5414	ENSGALT00000030090	5.43	2.92E-03	5482	ENSGALT00000031441	4.70	1.61E-05
5347	ENSGALT00000028403	6.04	1.09E-03	5415	ENSGALT00000030094	1.25	9.19E-04	5483	ENSGALT00000031442	4.68	9.73E-03
5348	ENSGALT00000028409	7.51	6.59E-04	5416	ENSGALT00000030129	6.36	1.68E-03	5484	ENSGALT00000031444	3.06	1.32E-02
5349	ENSGALT00000028427	3.82	1.77E-03	5417	ENSGALT00000030168	4.73	1.79E-03	5485	ENSGALT00000031449	5.53	2.51E-04
5350	ENSGALT00000029147	3.22	8.87E-04	5418	ENSGALT00000030181	5.73	2.35E-04	5486	ENSGALT00000031463	2.21	5.10E-03
5351	ENSGALT00000029170	4.56	4.97E-03	5419	ENSGALT00000030183	2.42	6.08E-03	5487	ENSGALT00000031473	4.62	1.73E-03
5352	ENSGALT00000029174	2.35	5.52E-03	5420	ENSGALT00000030260	3.99	5.26E-02	5488	ENSGALT00000031497	5.61	1.21E-03
5353	ENSGALT00000029178	7.31	3.14E-04	5421	ENSGALT00000030299	4.78	6.19E-05	5489	ENSGALT00000031498	3.18	1.80E-04
5354	ENSGALT00000029210	3.85	3.28E-03	5422	ENSGALT00000030310	2.75	7.22E-03	5490	ENSGALT00000031509	4.99	5.94E-03
5355	ENSGALT00000029220	8.08	3.16E-04	5423	ENSGALT00000030324	1.66	2.51E-02	5491	ENSGALT00000031558	2.91	1.28E-04
5356	ENSGALT00000029245	8.71	1.37E-04	5424	ENSGALT00000030341	3.91	8.63E-03	5492	ENSGALT00000031564	7.67	2.30E-05
5357	ENSGALT00000029253	8.65	1.62E-04	5425	ENSGALT00000030403	4.15	2.67E-04	5493	ENSGALT00000031572	3.86	7.30E-03
5358	ENSGALT00000029259	6.32	9.82E-04	5426	ENSGALT00000030489	4.67	1.63E-03	5494	ENSGALT00000031581	6.15	2.42E-04
5359	ENSGALT00000029275	4.43	1.10E-03	5427	ENSGALT00000030519	4.56	3.43E-04	5495	ENSGALT00000031598	4.25	7.27E-03
5360	ENSGALT00000029299	4.14	1.16E-01	5428	ENSGALT00000030524	5.00	1.53E-03	5496	ENSGALT00000031640	4.02	1.84E-03
5361	ENSGALT00000029301	5.49	2.02E-04	5429	ENSGALT00000030525	7.32	3.11E-05	5497	ENSGALT00000031676	4.79	1.37E-03
5362	ENSGALT00000029310	7.90	3.14E-04	5430	ENSGALT00000030553	5.90	5.78E-04	5498	ENSGALT00000031685	1.35	1.02E-02
5363	ENSGALT00000029356	4.01	1.59E-03	5431	ENSGALT00000030566	2.32	9.47E-04	5499	ENSGALT00000031707	6.39	7.18E-04
5364	ENSGALT00000029387	7.31	6.93E-03	5432	ENSGALT00000030571	4.46	6.61E-03	5500	ENSGALT00000031724	3.76	2.79E-04
5365	ENSGALT00000029406	4.78	8.66E-03	5433	ENSGALT00000030585	3.94	1.01E-02	5501	ENSGALT00000031727	1.57	3.95E-02
5366	ENSGALT00000029412	4.39	7.75E-03	5434	ENSGALT00000030587	5.75	5.00E-06	5502	ENSGALT00000031745	2.33	1.74E-03
5367	ENSGALT00000029418	8.57	7.84E-05	5435	ENSGALT00000030633	1.18	1.83E-02	5503	ENSGALT00000031751	10.51	6.84E-03
5368	ENSGALT00000029433	5.66	7.79E-04	5436	ENSGALT00000030657	2.72	4.25E-03	5504	ENSGALT00000031754	5.41	6.41E-03
5369	ENSGALT00000029440	2.41	1.86E-02	5437	ENSGALT00000030666	6.90	2.05E-03	5505	ENSGALT00000031777	5.29	2.58E-03
5370	ENSGALT00000029500	8.47	2.79E-03	5438	ENSGALT00000030690	3.72	8.24E-04	5506	ENSGALT00000031803	5.41	2.61E-03
5371	ENSGALT00000029531	1.47	5.76E-02	5439	ENSGALT00000030727	3.36	1.69E-03	5507	ENSGALT00000031816	3.68	8.23E-04

5508	ENSGALT00000031853	4.91	1.50E-03	5576	ENSGALT00000033309	5.11	2.84E-02	5644	ENSGALT00000034651	2.13	6.05E-03
5509	ENSGALT00000031874	3.03	9.47E-03	5577	ENSGALT00000033380	3.00	9.91E-04	5645	ENSGALT00000034670	2.74	1.12E-03
5510	ENSGALT00000031889	3.45	7.82E-03	5578	ENSGALT00000033417	2.12	5.54E-02	5646	ENSGALT00000034679	2.24	3.95E-02
5511	ENSGALT00000031894	2.35	1.33E-02	5579	ENSGALT00000033425	6.33	1.25E-04	5647	ENSGALT00000034695	1.69	8.26E-03
5512	ENSGALT00000031932	1.46	1.50E-03	5580	ENSGALT00000033458	4.54	2.56E-03	5648	ENSGALT00000034753	3.87	6.01E-04
5513	ENSGALT00000031960	1.44	6.82E-03	5581	ENSGALT00000033471	2.64	2.84E-03	5649	ENSGALT00000034766	2.43	5.70E-03
5514	ENSGALT00000032002	3.48	1.48E-02	5582	ENSGALT00000033473	1.43	1.93E-02	5650	ENSGALT00000034773	4.58	7.58E-03
5515	ENSGALT00000032003	1.61	2.44E-02	5583	ENSGALT00000033481	1.37	4.04E-02	5651	ENSGALT00000034777	4.69	9.46E-04
5516	ENSGALT00000032078	5.20	7.74E-03	5584	ENSGALT00000033559	1.73	9.13E-03	5652	ENSGALT00000034784	5.89	5.70E-05
5517	ENSGALT00000032082	7.21	2.89E-04	5585	ENSGALT00000033587	2.03	1.12E-02	5653	ENSGALT00000034792	6.49	2.57E-03
5518	ENSGALT00000032184	1.29	6.82E-03	5586	ENSGALT00000033602	1.45	5.70E-02	5654	ENSGALT00000034802	4.86	1.64E-03
5519	ENSGALT00000032192	4.16	3.84E-02	5587	ENSGALT00000033613	4.78	6.20E-04	5655	ENSGALT00000034855	5.00	8.84E-03
5520	ENSGALT00000032205	6.24	8.47E-04	5588	ENSGALT00000033643	4.08	1.02E-03	5656	ENSGALT00000034916	5.79	5.36E-03
5521	ENSGALT00000032210	2.96	3.58E-04	5589	ENSGALT00000033644	5.74	1.65E-03	5657	ENSGALT00000034946	2.35	5.02E-03
5522	ENSGALT00000032247	2.09	1.15E-02	5590	ENSGALT00000033697	4.14	4.14E-03	5658	ENSGALT00000034962	1.21	2.73E-02
5523	ENSGALT00000032250	3.70	2.89E-03	5591	ENSGALT00000033713	6.71	4.84E-04	5659	ENSGALT00000034973	2.38	1.83E-02
5524	ENSGALT00000032331	3.38	1.67E-02	5592	ENSGALT00000033720	2.38	5.08E-04	5660	ENSGALT00000034986	1.59	1.72E-02
5525	ENSGALT00000032334	6.56	4.23E-04	5593	ENSGALT00000033721	3.58	1.55E-03	5661	ENSGALT00000034987	5.04	7.24E-03
5526	ENSGALT00000032340	4.81	1.91E-03	5594	ENSGALT00000033734	3.99	7.13E-04	5662	ENSGALT00000035005	4.81	5.52E-03
5527	ENSGALT00000032341	6.39	6.89E-03	5595	ENSGALT00000033738	1.22	1.93E-02	5663	ENSGALT00000035033	5.90	2.07E-03
5528	ENSGALT00000032362	3.67	3.24E-03	5596	ENSGALT00000033758	2.87	1.40E-04	5664	ENSGALT00000035050	3.49	2.48E-03
5529	ENSGALT00000032376	5.74	3.43E-05	5597	ENSGALT00000033778	3.17	1.53E-02	5665	ENSGALT00000035083	6.06	1.62E-03
5530	ENSGALT00000032405	2.92	6.82E-03	5598	ENSGALT00000033799	3.52	3.00E-03	5666	ENSGALT00000035094	3.37	4.32E-03
5531	ENSGALT00000032414	2.42	4.79E-03	5599	ENSGALT00000033803	4.55	6.99E-04	5667	ENSGALT00000035116	4.20	5.86E-03
5532	ENSGALT00000032415	3.86	1.06E-02	5600	ENSGALT00000033826	4.62	1.24E-02	5668	ENSGALT00000035120	3.31	1.81E-03
5533	ENSGALT00000032425	3.43	7.46E-04	5601	ENSGALT00000033907	4.61	1.82E-03	5669	ENSGALT00000035129	3.69	5.65E-03
5534	ENSGALT00000032455	4.57	8.39E-05	5602	ENSGALT00000033939	2.61	6.54E-03	5670	ENSGALT00000035157	2.09	5.27E-03
5535	ENSGALT00000032456	4.77	1.18E-04	5603	ENSGALT00000033945	3.71	7.97E-02	5671	ENSGALT00000035159	4.81	6.68E-04
5536	ENSGALT00000032482	6.45	9.93E-04	5604	ENSGALT00000033954	1.35	7.48E-03	5672	ENSGALT00000035352	4.23	2.81E-04
5537	ENSGALT00000032500	4.97	1.08E-03	5605	ENSGALT00000033971	5.62	9.05E-05	5673	ENSGALT00000035354	3.10	7.33E-04
5538	ENSGALT00000032501	2.16	6.66E-03	5606	ENSGALT00000033999	3.03	2.75E-04	5674	ENSGALT00000035356	1.93	4.12E-03
5539	ENSGALT00000032503	3.82	1.55E-03	5607	ENSGALT00000034024	6.12	3.20E-03	5675	ENSGALT00000035358	5.50	7.16E-05
5540	ENSGALT00000032560	2.49	2.54E-03	5608	ENSGALT00000034031	4.80	1.32E-02	5676	ENSGALT00000035359	3.68	2.46E-04
5541	ENSGALT00000032583	1.19	4.98E-03	5609	ENSGALT00000034032	5.30	4.80E-03	5677	ENSGALT00000035360	2.09	9.26E-04
5542	ENSGALT00000032601	2.45	4.27E-04	5610	ENSGALT00000034034	4.69	8.11E-03	5678	ENSGALT00000035361	1.92	1.16E-01
5543	ENSGALT00000032637	2.67	6.63E-03	5611	ENSGALT00000034043	3.90	1.70E-03	5679	ENSGALT00000035365	6.13	5.25E-03
5544	ENSGALT00000032646	1.87	1.21E-01	5612	ENSGALT00000034106	4.48	4.78E-05	5680	ENSGALT00000035367	2.88	9.19E-03
5545	ENSGALT00000032700	3.20	3.24E-03	5613	ENSGALT00000034137	2.15	3.00E-02	5681	ENSGALT00000035371	2.88	1.27E-02
5546	ENSGALT00000032705	1.25	5.45E-03	5614	ENSGALT00000034143	5.77	1.67E-03	5682	ENSGALT00000035372	4.24	5.48E-03
5547	ENSGALT00000032739	5.45	2.29E-03	5615	ENSGALT00000034187	2.77	7.14E-03	5683	ENSGALT00000035374	4.24	2.62E-03
5548	ENSGALT00000032742	3.44	2.10E-03	5616	ENSGALT00000034200	4.92	1.41E-03	5684	ENSGALT00000035376	1.27	1.68E-01
5549	ENSGALT00000032756	5.25	3.97E-03	5617	ENSGALT00000034240	3.09	4.22E-01	5685	ENSGALT00000035377	4.34	8.92E-04
5550	ENSGALT00000032834	1.38	8.12E-03	5618	ENSGALT00000034268	1.49	9.50E-03	5686	ENSGALT00000035380	6.80	3.09E-04
5551	ENSGALT00000032836	1.55	1.12E-02	5619	ENSGALT00000034293	2.11	7.40E-03	5687	ENSGALT00000035381	3.38	1.17E-03
5552	ENSGALT00000032837	2.31	7.76E-03	5620	ENSGALT00000034294	5.61	3.08E-03	5688	ENSGALT00000035382	5.55	7.41E-04
5553	ENSGALT00000032872	4.80	3.53E-03	5621	ENSGALT00000034308	4.41	7.79E-04	5689	ENSGALT00000035384	2.94	4.28E-03
5554	ENSGALT00000032885	3.40	6.24E-03	5622	ENSGALT00000034321	1.35	5.27E-04	5690	ENSGALT00000035389	4.56	8.98E-03
5555	ENSGALT00000032889	5.82	1.65E-03	5623	ENSGALT00000034335	3.72	3.83E-03	5691	ENSGALT00000035390	4.15	7.45E-03
5556	ENSGALT00000032925	4.29	1.12E-02	5624	ENSGALT00000034340	5.04	1.02E-03	5692	ENSGALT00000035391	5.74	6.45E-05
5557	ENSGALT00000032948	4.67	1.83E-04	5625	ENSGALT00000034358	1.76	2.31E-03	5693	ENSGALT00000035392	2.28	9.79E-03
5558	ENSGALT00000032981	1.18	6.67E-03	5626	ENSGALT00000034371	5.35	7.24E-03	5694	ENSGALT00000035397	6.49	8.36E-03
5559	ENSGALT00000032982	1.35	2.24E-02	5627	ENSGALT00000034387	8.89	2.47E-04	5695	ENSGALT00000035400	6.00	9.19E-03
5560	ENSGALT00000032989	4.42	1.84E-02	5628	ENSGALT00000034402	3.13	9.98E-04	5696	ENSGALT00000035403	5.24	1.33E-03
5561	ENSGALT00000033005	3.31	4.36E-04	5629	ENSGALT00000034415	4.42	1.49E-02	5697	ENSGALT00000035405	4.29	1.04E-03
5562	ENSGALT00000033009	2.44	4.57E-02	5630	ENSGALT00000034419	5.44	8.69E-05	5698	ENSGALT00000035406	5.01	7.16E-03
5563	ENSGALT00000033026	6.22	1.34E-02	5631	ENSGALT00000034446	4.18	1.37E-03	5699	ENSGALT00000035407	2.15	4.44E-02
5564	ENSGALT00000033063	3.98	7.45E-04	5632	ENSGALT00000034491	2.71	3.14E-04	5700	ENSGALT00000035408	4.57	4.38E-03
5565	ENSGALT00000033099	1.32	7.60E-02	5633	ENSGALT00000034493	3.79	1.54E-03	5701	ENSGALT00000035413	4.06	1.48E-04
5566	ENSGALT00000033108	4.60	6.63E-04	5634	ENSGALT00000034494	1.68	2.97E-02	5702	ENSGALT00000035414	2.30	3.46E-02
5567	ENSGALT00000033125	9.67	2.17E-04	5635	ENSGALT00000034520	1.90	1.18E-01	5703	ENSGALT00000035415	3.57	1.76E-03
5568	ENSGALT00000033147	6.51	3.50E-03	5636	ENSGALT00000034523	4.80	1.33E-02	5704	ENSGALT00000035418	3.22	1.04E-02
5569	ENSGALT00000033193	4.99	7.47E-04	5637	ENSGALT00000034586	5.52	5.74E-04	5705	ENSGALT00000035420	2.54	4.14E-04
5570	ENSGALT00000033215	3.23	5.96E-02	5638	ENSGALT00000034591	1.63	9.57E-03	5706	ENSGALT00000035421	1.12	5.30E-03
5571	ENSGALT00000033226	4.87	1.42E-03	5639	ENSGALT00000034608	4.46	1.07E-04	5707	ENSGALT00000035422	2.40	5.19E-03
5572	ENSGALT00000033255	4.96	2.38E-03	5640	ENSGALT00000034611	3.58	1.22E-03	5708	ENSGALT00000035424	1.44	1.07E-02
5573	ENSGALT00000033270	3.59	7.37E-04	5641	ENSGALT00000034623	4.39	2.61E-03	5709	ENSGALT00000035426	5.99	2.08E-03
5574	ENSGALT00000033279	2.81	1.43E-02	5642	ENSGALT00000034624	2.02	3.46E-03	5710	ENSGALT00000035432	3.43	1.39E-04
5575	ENSGALT00000033303	5.91	5.17E-03	5643	ENSGALT00000034628	3.29	5.09E-03	5711	ENSGALT00000035435	7.58	5.66E-03

5712	ENSGALT00000035437	4.55	2.18E-02	5780	ENSGALT00000035643	7.57	8.37E-04	5848	ENSGALT00000035871	8.72	1.41E-03
5713	ENSGALT00000035438	5.26	1.45E-03	5781	ENSGALT00000035644	9.42	2.14E-03	5849	ENSGALT00000035875	8.40	8.15E-04
5714	ENSGALT00000035440	3.27	4.69E-04	5782	ENSGALT00000035650	1.79	9.18E-02	5850	ENSGALT00000035876	7.74	1.55E-03
5715	ENSGALT00000035441	2.70	6.95E-03	5783	ENSGALT00000035654	3.12	6.27E-02	5851	ENSGALT00000035877	6.95	6.99E-04
5716	ENSGALT00000035447	5.42	1.52E-03	5784	ENSGALT00000035659	1.09	1.05E-01	5852	ENSGALT00000035879	3.65	2.41E-03
5717	ENSGALT00000035448	2.98	5.94E-03	5785	ENSGALT00000035663	2.61	1.30E-02	5853	ENSGALT00000035883	7.49	3.38E-05
5718	ENSGALT00000035449	2.15	1.98E-02	5786	ENSGALT00000035664	7.14	2.28E-03	5854	ENSGALT00000035884	5.45	2.61E-03
5719	ENSGALT00000035497	4.34	2.31E-04	5787	ENSGALT00000035671	8.78	1.22E-06	5855	ENSGALT00000035885	5.94	3.73E-04
5720	ENSGALT00000035499	3.72	3.53E-03	5788	ENSGALT00000035679	4.57	4.93E-03	5856	ENSGALT00000035892	3.06	1.50E-01
5721	ENSGALT00000035501	7.70	1.49E-03	5789	ENSGALT00000035681	4.69	8.22E-04	5857	ENSGALT00000035894	4.37	1.14E-02
5722	ENSGALT00000035502	6.17	2.97E-03	5790	ENSGALT00000035686	3.89	8.27E-04	5858	ENSGALT00000035899	6.04	1.26E-03
5723	ENSGALT00000035503	2.60	1.60E-03	5791	ENSGALT00000035688	4.66	4.19E-03	5859	ENSGALT00000035901	4.34	5.21E-03
5724	ENSGALT00000035507	3.47	4.03E-03	5792	ENSGALT00000035689	7.80	4.82E-04	5860	ENSGALT00000035905	5.14	3.95E-03
5725	ENSGALT00000035511	2.96	7.90E-03	5793	ENSGALT00000035691	8.44	1.29E-03	5861	ENSGALT00000035906	1.78	2.19E-02
5726	ENSGALT00000035516	1.56	6.44E-03	5794	ENSGALT00000035692	5.64	3.26E-02	5862	ENSGALT00000035907	6.62	5.19E-04
5727	ENSGALT00000035521	8.66	9.86E-03	5795	ENSGALT00000035696	2.78	2.25E-03	5863	ENSGALT00000035908	7.98	9.26E-05
5728	ENSGALT00000035523	1.46	1.27E-03	5796	ENSGALT00000035698	9.06	1.27E-03	5864	ENSGALT00000035913	5.13	1.30E-03
5729	ENSGALT00000035525	7.95	6.04E-04	5797	ENSGALT00000035700	6.39	1.42E-03	5865	ENSGALT00000035915	2.50	4.06E-03
5730	ENSGALT00000035526	3.07	2.64E-02	5798	ENSGALT00000035702	3.87	2.30E-04	5866	ENSGALT00000035922	7.55	3.25E-03
5731	ENSGALT00000035534	7.06	3.90E-04	5799	ENSGALT00000035707	2.65	8.14E-04	5867	ENSGALT00000035928	8.52	1.42E-04
5732	ENSGALT00000035535	3.75	3.68E-05	5800	ENSGALT00000035709	5.11	5.92E-03	5868	ENSGALT00000035933	5.45	5.61E-03
5733	ENSGALT00000035536	1.15	1.43E-02	5801	ENSGALT00000035710	8.28	7.06E-04	5869	ENSGALT00000035934	5.30	6.34E-03
5734	ENSGALT00000035537	2.85	6.01E-03	5802	ENSGALT00000035714	2.17	5.84E-04	5870	ENSGALT00000035939	6.56	2.49E-03
5735	ENSGALT00000035539	4.00	5.89E-03	5803	ENSGALT00000035718	6.33	2.72E-04	5871	ENSGALT00000035942	2.60	1.36E-02
5736	ENSGALT00000035540	6.92	9.01E-04	5804	ENSGALT00000035733	4.30	1.20E-03	5872	ENSGALT00000035943	7.67	1.41E-04
5737	ENSGALT00000035542	3.91	1.09E-03	5805	ENSGALT00000035734	2.75	5.99E-04	5873	ENSGALT00000035947	3.78	2.95E-02
5738	ENSGALT00000035543	3.37	3.73E-02	5806	ENSGALT00000035745	3.91	2.73E-03	5874	ENSGALT00000035950	3.34	1.16E-03
5739	ENSGALT00000035546	4.50	1.88E-03	5807	ENSGALT00000035747	6.33	1.43E-04	5875	ENSGALT00000035953	2.26	1.67E-03
5740	ENSGALT00000035549	10.14	7.28E-04	5808	ENSGALT00000035748	5.34	5.81E-04	5876	ENSGALT00000035963	4.42	7.25E-05
5741	ENSGALT00000035551	2.85	7.18E-03	5809	ENSGALT00000035750	4.21	1.14E-02	5877	ENSGALT00000035968	7.26	2.96E-03
5742	ENSGALT00000035555	1.45	1.03E-02	5810	ENSGALT00000035752	2.95	2.11E-02	5878	ENSGALT00000035979	8.60	9.32E-04
5743	ENSGALT00000035557	5.02	2.02E-03	5811	ENSGALT00000035755	8.93	5.11E-04	5879	ENSGALT00000035980	8.32	7.42E-03
5744	ENSGALT00000035559	7.36	5.44E-05	5812	ENSGALT00000035756	8.60	8.22E-04	5880	ENSGALT00000035982	1.47	3.52E-02
5745	ENSGALT00000035563	8.99	9.05E-03	5813	ENSGALT00000035758	1.04	4.64E-03	5881	ENSGALT00000035984	5.71	4.91E-03
5746	ENSGALT00000035569	1.35	5.15E-03	5814	ENSGALT00000035760	7.82	8.45E-04	5882	ENSGALT00000035988	8.45	6.52E-03
5747	ENSGALT00000035571	4.80	6.58E-03	5815	ENSGALT00000035761	8.24	6.91E-03	5883	ENSGALT00000035997	8.50	3.38E-04
5748	ENSGALT00000035575	4.60	8.73E-04	5816	ENSGALT00000035767	8.95	1.71E-03	5884	ENSGALT00000035998	6.62	1.63E-03
5749	ENSGALT00000035579	1.39	7.35E-03	5817	ENSGALT00000035772	8.66	5.01E-04	5885	ENSGALT00000036001	7.06	1.56E-03
5750	ENSGALT00000035581	4.67	8.06E-04	5818	ENSGALT00000035773	6.74	1.53E-02	5886	ENSGALT00000036003	3.76	1.08E-02
5751	ENSGALT00000035582	6.94	2.57E-04	5819	ENSGALT00000035774	6.42	6.00E-04	5887	ENSGALT00000036004	8.69	4.60E-05
5752	ENSGALT00000035583	3.15	2.25E-03	5820	ENSGALT00000035775	6.36	3.76E-03	5888	ENSGALT00000036011	3.96	8.84E-04
5753	ENSGALT00000035584	2.47	2.99E-02	5821	ENSGALT00000035777	1.11	1.85E-03	5889	ENSGALT00000036015	8.69	1.95E-04
5754	ENSGALT00000035588	6.35	2.43E-04	5822	ENSGALT00000035779	3.74	1.26E-02	5890	ENSGALT00000036019	6.62	2.78E-03
5755	ENSGALT00000035589	1.93	1.07E-01	5823	ENSGALT00000035781	7.31	3.17E-05	5891	ENSGALT00000036020	3.58	1.49E-01
5756	ENSGALT00000035590	4.76	4.30E-03	5824	ENSGALT00000035784	9.16	8.43E-03	5892	ENSGALT00000036024	9.55	1.47E-06
5757	ENSGALT00000035592	9.07	5.34E-04	5825	ENSGALT00000035796	3.47	4.61E-03	5893	ENSGALT00000036028	8.70	1.89E-03
5758	ENSGALT00000035595	7.04	3.18E-03	5826	ENSGALT00000035797	2.45	1.43E-02	5894	ENSGALT00000036034	1.54	3.01E-02
5759	ENSGALT00000035596	6.84	2.71E-03	5827	ENSGALT00000035799	2.09	6.27E-02	5895	ENSGALT00000036036	8.82	5.79E-04
5760	ENSGALT00000035597	1.13	1.23E-03	5828	ENSGALT00000035807	6.34	1.01E-03	5896	ENSGALT00000036040	8.94	1.20E-04
5761	ENSGALT00000035598	7.39	4.18E-03	5829	ENSGALT00000035808	7.29	7.04E-05	5897	ENSGALT00000036042	8.34	2.52E-06
5762	ENSGALT00000035600	2.68	1.41E-02	5830	ENSGALT00000035809	8.23	2.05E-03	5898	ENSGALT00000036047	8.32	1.86E-04
5763	ENSGALT00000035601	8.14	5.29E-04	5831	ENSGALT00000035811	2.67	1.75E-03	5899	ENSGALT00000036050	7.45	5.53E-03
5764	ENSGALT00000035603	2.48	2.35E-03	5832	ENSGALT00000035812	2.64	2.38E-03	5900	ENSGALT00000036051	11.58	4.72E-02
5765	ENSGALT00000035604	8.53	1.77E-02	5833	ENSGALT00000035815	1.80	1.63E-02	5901	ENSGALT00000036053	8.95	3.30E-04
5766	ENSGALT00000035608	2.58	1.77E-02	5834	ENSGALT00000035820	4.14	4.72E-03	5902	ENSGALT00000036054	8.50	4.92E-03
5767	ENSGALT00000035610	8.17	1.19E-04	5835	ENSGALT00000035825	7.14	1.19E-02	5903	ENSGALT00000036055	7.30	8.92E-03
5768	ENSGALT00000035612	1.53	1.07E-02	5836	ENSGALT00000035828	7.96	2.49E-04	5904	ENSGALT00000036056	9.44	3.08E-05
5769	ENSGALT00000035616	4.43	2.57E-02	5837	ENSGALT00000035830	3.85	2.89E-03	5905	ENSGALT00000036057	7.97	9.07E-04
5770	ENSGALT00000035620	2.09	1.49E-02	5838	ENSGALT00000035833	3.39	2.70E-03	5906	ENSGALT00000036062	4.85	2.92E-03
5771	ENSGALT00000035622	4.81	5.35E-03	5839	ENSGALT00000035834	5.72	1.81E-02	5907	ENSGALT00000036066	2.18	6.27E-04
5772	ENSGALT00000035624	3.58	3.94E-04	5840	ENSGALT00000035842	6.13	1.84E-04	5908	ENSGALT00000036067	3.94	9.98E-04
5773	ENSGALT00000035628	9.35	2.24E-04	5841	ENSGALT00000035844	6.87	1.24E-03	5909	ENSGALT00000036068	6.38	2.49E-03
5774	ENSGALT00000035630	6.12	4.24E-03	5842	ENSGALT00000035851	1.59	3.63E-03	5910	ENSGALT00000036069	5.37	1.83E-02
5775	ENSGALT00000035631	3.54	1.01E-03	5843	ENSGALT00000035852	5.64	5.19E-02	5911	ENSGALT00000036071	8.60	6.89E-04
5776	ENSGALT00000035635	2.18	5.72E-03	5844	ENSGALT00000035857	7.05	8.88E-04	5912	ENSGALT00000036073	2.75	2.33E-03
5777	ENSGALT00000035637	4.44	3.77E-02	5845	ENSGALT00000035859	5.61	4.54E-03	5913	ENSGALT00000036074	2.52	2.46E-02
5778	ENSGALT00000035638	3.52	3.86E-04	5846	ENSGALT00000035865	5.67	7.76E-06	5914	ENSGALT00000036077	8.30	3.49E-05
5779	ENSGALT00000035642	4.71	8.89E-04	5847	ENSGALT00000035869	6.67	4.17E-04	5915	ENSGALT00000036080	7.17	3.43E-04

5916	ENSGALT00000036081	3.97	2.64E-03	5984	ENSGALT00000036291	2.97	4.45E-02	6052	ENSGALT00000036814	11.82	5.88E-04
5917	ENSGALT00000036082	2.10	2.79E-03	5985	ENSGALT00000036293	5.59	6.54E-04	6053	ENSGALT00000036818	3.73	1.91E-03
5918	ENSGALT00000036085	5.45	3.74E-03	5986	ENSGALT00000036314	5.58	2.17E-04	6054	ENSGALT00000036820	1.40	2.00E-03
5919	ENSGALT00000036088	1.38	4.42E-03	5987	ENSGALT00000036332	4.92	3.10E-04	6055	ENSGALT00000036821	5.34	2.40E-03
5920	ENSGALT00000036089	9.34	1.55E-04	5988	ENSGALT00000036343	5.09	4.26E-03	6056	ENSGALT00000036823	3.07	3.38E-03
5921	ENSGALT00000036094	4.28	1.12E-03	5989	ENSGALT00000036351	2.79	1.05E-04	6057	ENSGALT00000036824	4.90	1.54E-04
5922	ENSGALT00000036095	4.29	3.80E-03	5990	ENSGALT00000036361	2.65	6.92E-03	6058	ENSGALT00000036840	1.52	9.74E-03
5923	ENSGALT00000036097	1.71	2.39E-02	5991	ENSGALT00000036362	1.25	1.37E-02	6059	ENSGALT00000036844	5.01	2.12E-03
5924	ENSGALT00000036101	7.14	1.75E-03	5992	ENSGALT00000036363	3.67	2.04E-02	6060	ENSGALT00000036856	3.73	7.94E-03
5925	ENSGALT00000036102	6.81	3.73E-04	5993	ENSGALT00000036379	2.63	4.44E-03	6061	ENSGALT00000036880	5.48	9.20E-03
5926	ENSGALT00000036104	7.80	3.16E-03	5994	ENSGALT00000036381	1.68	2.22E-03	6062	ENSGALT00000036888	2.05	2.02E-02
5927	ENSGALT00000036107	5.93	1.52E-03	5995	ENSGALT00000036387	1.68	1.99E-02	6063	ENSGALT00000036891	5.60	1.75E-05
5928	ENSGALT00000036109	9.59	5.14E-05	5996	ENSGALT00000036392	4.17	2.00E-04	6064	ENSGALT00000036900	3.66	5.83E-03
5929	ENSGALT00000036110	6.51	1.65E-03	5997	ENSGALT00000036393	3.61	3.10E-03	6065	ENSGALT00000036919	1.59	1.33E-04
5930	ENSGALT00000036116	1.16	1.60E-03	5998	ENSGALT00000036395	5.71	4.29E-04	6066	ENSGALT00000036931	2.91	1.02E-02
5931	ENSGALT00000036117	1.89	8.14E-04	5999	ENSGALT00000036399	1.41	7.69E-03	6067	ENSGALT00000036935	2.17	4.12E-04
5932	ENSGALT00000036119	2.22	1.86E-03	6000	ENSGALT00000036412	1.26	8.41E-03	6068	ENSGALT00000036938	8.30	9.21E-04
5933	ENSGALT00000036120	10.54	4.58E-04	6001	ENSGALT00000036441	3.18	2.32E-03	6069	ENSGALT00000036948	1.47	3.04E-02
5934	ENSGALT00000036122	8.05	4.56E-04	6002	ENSGALT00000036442	1.17	3.80E-03	6070	ENSGALT00000036983	2.09	7.11E-03
5935	ENSGALT00000036136	8.41	4.49E-05	6003	ENSGALT00000036447	2.91	9.24E-03	6071	ENSGALT00000037006	5.02	5.30E-03
5936	ENSGALT00000036138	7.45	1.35E-03	6004	ENSGALT00000036456	3.40	3.26E-03	6072	ENSGALT00000037024	2.61	1.03E-03
5937	ENSGALT00000036144	6.37	3.33E-04	6005	ENSGALT00000036460	5.30	1.56E-03	6073	ENSGALT00000037054	2.75	1.11E-03
5938	ENSGALT00000036147	3.56	1.47E-03	6006	ENSGALT00000036462	4.27	1.04E-03	6074	ENSGALT00000037057	5.36	2.03E-03
5939	ENSGALT00000036149	6.46	3.39E-03	6007	ENSGALT00000036471	4.89	2.31E-03	6075	ENSGALT00000037067	4.45	7.64E-03
5940	ENSGALT00000036150	6.50	6.93E-03	6008	ENSGALT00000036473	3.55	3.43E-03	6076	ENSGALT00000037069	4.46	3.95E-03
5941	ENSGALT00000036151	8.80	3.25E-05	6009	ENSGALT00000036478	3.02	1.10E-03	6077	ENSGALT00000037079	4.88	2.36E-04
5942	ENSGALT00000036154	7.05	3.77E-04	6010	ENSGALT00000036482	4.51	6.97E-05	6078	ENSGALT00000037081	1.75	6.15E-03
5943	ENSGALT00000036160	1.36	1.49E-02	6011	ENSGALT00000036506	2.43	5.40E-04	6079	ENSGALT00000037083	7.10	1.04E-03
5944	ENSGALT00000036161	5.67	2.71E-03	6012	ENSGALT00000036518	6.17	8.00E-06	6080	ENSGALT00000037085	5.45	9.48E-03
5945	ENSGALT00000036165	3.76	1.58E-02	6013	ENSGALT00000036524	3.58	1.57E-02	6081	ENSGALT00000037094	1.23	2.77E-02
5946	ENSGALT00000036168	4.10	1.19E-03	6014	ENSGALT00000036525	3.06	7.04E-03	6082	ENSGALT00000037095	1.34	4.19E-02
5947	ENSGALT00000036171	8.95	3.83E-04	6015	ENSGALT00000036527	6.13	1.49E-03	6083	ENSGALT00000037096	2.08	6.94E-03
5948	ENSGALT00000036173	9.71	2.90E-04	6016	ENSGALT00000036538	2.04	1.88E-02	6084	ENSGALT00000037102	4.57	8.19E-04
5949	ENSGALT00000036175	6.00	1.41E-03	6017	ENSGALT00000036540	4.63	1.47E-03	6085	ENSGALT00000037111	3.68	7.79E-03
5950	ENSGALT00000036176	1.41	1.38E-02	6018	ENSGALT00000036541	8.18	6.60E-05	6086	ENSGALT00000037112	3.15	1.51E-02
5951	ENSGALT00000036177	3.65	4.18E-03	6019	ENSGALT00000036545	5.18	2.70E-03	6087	ENSGALT00000037116	1.77	5.25E-03
5952	ENSGALT00000036181	7.39	3.50E-04	6020	ENSGALT00000036546	6.29	2.02E-02	6088	ENSGALT00000037125	3.25	2.00E-02
5953	ENSGALT00000036182	8.11	2.75E-03	6021	ENSGALT00000036550	1.23	3.80E-02	6089	ENSGALT00000037134	2.85	3.84E-04
5954	ENSGALT00000036184	8.86	5.11E-03	6022	ENSGALT00000036564	3.02	2.23E-04	6090	ENSGALT00000037136	8.89	5.38E-03
5955	ENSGALT00000036185	4.45	7.45E-03	6023	ENSGALT00000036587	3.84	1.62E-03	6091	ENSGALT00000037141	8.15	4.69E-03
5956	ENSGALT00000036187	6.69	2.62E-04	6024	ENSGALT00000036594	4.72	2.21E-03	6092	ENSGALT00000037142	7.05	4.56E-03
5957	ENSGALT00000036192	1.84	1.92E-04	6025	ENSGALT00000036607	4.28	1.32E-02	6093	ENSGALT00000037148	2.94	7.04E-04
5958	ENSGALT00000036193	1.41	3.31E-03	6026	ENSGALT00000036608	2.42	3.60E-03	6094	ENSGALT00000037151	4.62	2.42E-03
5959	ENSGALT00000036201	3.98	1.62E-02	6027	ENSGALT00000036610	4.44	1.45E-02	6095	ENSGALT00000037155	2.56	2.94E-03
5960	ENSGALT00000036204	1.06	5.72E-02	6028	ENSGALT00000036613	2.71	2.54E-03	6096	ENSGALT00000037166	5.55	1.08E-03
5961	ENSGALT00000036206	6.21	3.98E-03	6029	ENSGALT00000036617	1.32	1.54E-02	6097	ENSGALT00000037174	3.98	1.01E-04
5962	ENSGALT00000036207	8.38	6.27E-04	6030	ENSGALT00000036620	4.44	2.05E-03	6098	ENSGALT00000037214	1.69	4.42E-03
5963	ENSGALT00000036208	2.06	2.41E-02	6031	ENSGALT00000036621	2.45	1.66E-02	6099	ENSGALT00000037219	4.28	7.29E-03
5964	ENSGALT00000036210	5.42	2.37E-03	6032	ENSGALT00000036655	1.78	1.63E-03	6100	ENSGALT00000037222	4.46	2.37E-03
5965	ENSGALT00000036211	3.17	1.32E-03	6033	ENSGALT00000036679	4.44	1.51E-04	6101	ENSGALT00000037224	4.12	9.88E-06
5966	ENSGALT00000036217	1.90	3.95E-02	6034	ENSGALT00000036691	3.95	6.16E-05	6102	ENSGALT00000037230	3.60	6.22E-03
5967	ENSGALT00000036219	5.54	9.58E-03	6035	ENSGALT00000036692	3.94	4.18E-03	6103	ENSGALT00000037231	3.21	5.05E-03
5968	ENSGALT00000036223	6.05	4.72E-05	6036	ENSGALT00000036699	5.16	3.40E-03	6104	ENSGALT00000037236	4.06	5.28E-03
5969	ENSGALT00000036229	6.38	1.71E-05	6037	ENSGALT00000036700	2.72	2.35E-04	6105	ENSGALT00000037246	5.81	6.64E-04
5970	ENSGALT00000036232	2.21	3.86E-03	6038	ENSGALT00000036703	3.93	6.69E-03	6106	ENSGALT00000037254	3.43	9.93E-05
5971	ENSGALT00000036235	3.94	2.20E-03	6039	ENSGALT00000036724	2.94	7.35E-03	6107	ENSGALT00000037260	1.37	9.48E-03
5972	ENSGALT00000036244	3.35	3.04E-03	6040	ENSGALT00000036737	5.97	3.08E-03	6108	ENSGALT00000037290	1.88	2.20E-03
5973	ENSGALT00000036245	4.90	4.20E-03	6041	ENSGALT00000036738	5.56	1.94E-04	6109	ENSGALT00000037291	4.31	2.56E-03
5974	ENSGALT00000036246	2.34	1.69E-03	6042	ENSGALT00000036739	2.14	5.49E-04	6110	ENSGALT00000037298	1.19	4.26E-02
5975	ENSGALT00000036250	3.77	1.22E-03	6043	ENSGALT00000036748	4.79	3.11E-04	6111	ENSGALT00000037328	5.79	6.19E-04
5976	ENSGALT00000036252	4.48	8.20E-03	6044	ENSGALT00000036759	3.94	1.51E-03	6112	ENSGALT00000037334	2.32	8.47E-05
5977	ENSGALT00000036265	3.16	4.48E-03	6045	ENSGALT00000036776	4.73	2.70E-03	6113	ENSGALT00000037335	3.45	1.87E-03
5978	ENSGALT00000036266	5.81	6.00E-04	6046	ENSGALT00000036795	2.07	1.97E-02	6114	ENSGALT00000037346	5.58	1.69E-03
5979	ENSGALT00000036268	2.20	6.31E-02	6047	ENSGALT00000036796	2.59	8.87E-03	6115	ENSGALT00000037362	3.24	2.65E-03
5980	ENSGALT00000036269	3.19	4.32E-03	6048	ENSGALT00000036804	1.69	5.56E-02	6116	ENSGALT00000037370	3.66	2.11E-03
5981	ENSGALT00000036279	3.58	5.37E-03	6049	ENSGALT00000036805	7.34	6.66E-04	6117	ENSGALT00000037371	2.86	2.05E-02
5982	ENSGALT00000036288	5.15	6.27E-04	6050	ENSGALT00000036807	5.57	8.77E-05	6118	ENSGALT00000037375	3.55	5.08E-04
5983	ENSGALT00000036289	2.34	9.13E-03	6051	ENSGALT00000036810	3.18	1.59E-02	6119	ENSGALT00000037377	3.06	3.70E-03

6120	ENSALT00000037378	3.70	2.00E-03	6188	ENSALT00000037820	5.75	3.70E-03	6256	ENSALT00000038330	3.55	1.83E-04
6121	ENSALT00000037381	1.99	4.51E-02	6189	ENSALT00000037835	5.55	3.21E-04	6257	ENSALT00000038334	3.83	8.84E-04
6122	ENSALT00000037384	1.78	6.15E-03	6190	ENSALT00000037836	4.95	1.60E-03	6258	ENSALT00000038339	4.63	2.05E-03
6123	ENSALT00000037393	2.08	6.54E-02	6191	ENSALT00000037851	3.28	2.01E-03	6259	ENSALT00000038346	2.62	1.57E-03
6124	ENSALT00000037395	5.69	1.44E-04	6192	ENSALT00000037852	2.87	2.48E-04	6260	ENSALT00000038353	2.78	4.38E-03
6125	ENSALT00000037396	4.46	2.77E-03	6193	ENSALT00000037855	2.32	6.88E-02	6261	ENSALT00000038360	4.36	1.42E-03
6126	ENSALT00000037412	5.95	9.77E-03	6194	ENSALT00000037861	5.31	2.15E-04	6262	ENSALT00000038361	6.33	1.99E-05
6127	ENSALT00000037422	2.15	9.81E-03	6195	ENSALT00000037870	1.53	3.04E-02	6263	ENSALT00000038366	4.30	8.86E-04
6128	ENSALT00000037425	5.26	8.68E-04	6196	ENSALT00000037875	1.13	1.92E-02	6264	ENSALT00000038389	2.57	4.33E-04
6129	ENSALT00000037432	1.91	5.90E-03	6197	ENSALT00000037883	6.04	1.38E-03	6265	ENSALT00000038394	6.11	4.35E-04
6130	ENSALT00000037448	1.55	9.11E-04	6198	ENSALT00000037884	4.49	3.89E-03	6266	ENSALT00000038395	8.49	1.65E-04
6131	ENSALT00000037456	6.33	7.13E-04	6199	ENSALT00000037885	3.11	3.95E-04	6267	ENSALT00000038396	1.94	3.16E-02
6132	ENSALT00000037457	7.52	1.29E-03	6200	ENSALT00000037900	5.63	3.89E-04	6268	ENSALT00000038398	4.88	1.77E-03
6133	ENSALT00000037458	9.76	1.37E-03	6201	ENSALT00000037905	1.53	1.55E-02	6269	ENSALT00000038402	1.47	6.39E-03
6134	ENSALT00000037459	7.23	2.43E-03	6202	ENSALT00000037911	2.79	3.78E-03	6270	ENSALT00000038407	5.32	3.12E-02
6135	ENSALT00000037462	3.44	4.22E-04	6203	ENSALT00000037918	4.01	6.63E-03	6271	ENSALT00000038408	2.39	1.42E-03
6136	ENSALT00000037463	8.75	2.95E-03	6204	ENSALT00000037921	2.43	1.72E-02	6272	ENSALT00000038411	2.87	1.01E-02
6137	ENSALT00000037464	3.76	3.91E-04	6205	ENSALT00000037924	2.26	1.02E-02	6273	ENSALT00000038426	4.96	1.86E-03
6138	ENSALT00000037465	9.12	4.10E-04	6206	ENSALT00000037927	4.11	3.61E-03	6274	ENSALT00000038430	5.72	1.47E-03
6139	ENSALT00000037466	6.10	3.25E-03	6207	ENSALT00000037937	4.21	3.04E-03	6275	ENSALT00000038431	6.17	1.92E-03
6140	ENSALT00000037468	6.73	5.43E-04	6208	ENSALT00000037945	4.81	4.22E-03	6276	ENSALT00000038435	4.49	8.17E-04
6141	ENSALT00000037487	4.00	5.51E-04	6209	ENSALT00000037973	5.03	6.18E-03	6277	ENSALT00000038443	4.04	2.89E-03
6142	ENSALT00000037493	4.14	5.07E-04	6210	ENSALT00000037976	1.77	1.03E-01	6278	ENSALT00000038445	4.03	3.97E-03
6143	ENSALT00000037498	4.64	3.53E-03	6211	ENSALT00000037989	4.53	2.91E-03	6279	ENSALT00000038448	3.96	2.75E-03
6144	ENSALT00000037501	2.04	5.51E-04	6212	ENSALT00000038007	5.31	1.10E-02	6280	ENSALT00000038458	5.65	6.61E-04
6145	ENSALT00000037513	3.10	2.77E-03	6213	ENSALT00000038009	4.92	4.81E-03	6281	ENSALT00000038467	1.97	8.64E-02
6146	ENSALT00000037516	2.49	2.33E-03	6214	ENSALT00000038012	2.98	1.12E-02	6282	ENSALT00000038468	7.40	2.39E-03
6147	ENSALT00000037518	7.64	1.69E-04	6215	ENSALT00000038015	4.64	8.53E-03	6283	ENSALT00000038473	3.08	2.87E-03
6148	ENSALT00000037519	5.10	8.78E-04	6216	ENSALT00000038030	2.89	1.14E-03	6284	ENSALT00000038475	4.97	6.15E-03
6149	ENSALT00000037521	2.63	2.61E-03	6217	ENSALT00000038032	4.69	1.76E-03	6285	ENSALT00000038477	5.37	3.33E-03
6150	ENSALT00000037535	5.08	3.53E-03	6218	ENSALT00000038033	4.54	1.85E-03	6286	ENSALT00000038480	5.56	2.68E-03
6151	ENSALT00000037538	2.28	1.51E-03	6219	ENSALT00000038043	6.12	3.80E-03	6287	ENSALT00000038485	3.84	9.39E-04
6152	ENSALT00000037546	5.44	8.43E-04	6220	ENSALT00000038053	2.40	3.36E-03	6288	ENSALT00000038493	6.21	2.09E-05
6153	ENSALT00000037548	2.88	4.11E-04	6221	ENSALT00000038098	3.45	1.57E-03	6289	ENSALT00000038517	2.46	6.20E-03
6154	ENSALT00000037549	2.82	4.53E-02	6222	ENSALT00000038099	5.38	3.25E-02	6290	ENSALT00000038519	2.23	1.34E-03
6155	ENSALT00000037554	3.31	1.06E-03	6223	ENSALT00000038118	4.85	1.84E-03	6291	ENSALT00000038521	2.24	2.03E-03
6156	ENSALT00000037555	5.73	6.28E-04	6224	ENSALT00000038133	3.45	7.97E-05	6292	ENSALT00000038524	5.06	6.86E-03
6157	ENSALT00000037561	4.09	2.27E-03	6225	ENSALT00000038134	3.75	3.10E-03	6293	ENSALT00000038533	3.65	3.42E-03
6158	ENSALT00000037563	2.36	1.55E-02	6226	ENSALT00000038137	2.51	7.37E-03	6294	ENSALT00000038534	6.09	1.44E-02
6159	ENSALT00000037564	5.45	9.09E-04	6227	ENSALT00000038143	3.71	8.31E-04	6295	ENSALT00000038535	2.30	3.30E-03
6160	ENSALT00000037567	1.52	2.64E-03	6228	ENSALT00000038144	3.68	3.44E-03	6296	ENSALT00000038536	5.61	5.76E-03
6161	ENSALT00000037568	3.16	5.40E-03	6229	ENSALT00000038156	3.84	2.32E-03	6297	ENSALT00000038540	5.17	1.26E-03
6162	ENSALT00000037572	4.69	4.53E-03	6230	ENSALT00000038161	4.11	3.65E-03	6298	ENSALT00000038541	6.12	4.89E-03
6163	ENSALT00000037573	4.62	7.63E-03	6231	ENSALT00000038168	7.31	2.21E-03	6299	ENSALT00000038550	3.41	1.85E-02
6164	ENSALT00000037578	2.64	6.77E-03	6232	ENSALT00000038169	2.78	3.48E-03	6300	ENSALT00000038554	4.12	4.56E-03
6165	ENSALT00000037593	4.82	1.06E-02	6233	ENSALT00000038173	3.64	8.25E-03	6301	ENSALT00000038561	5.60	8.44E-03
6166	ENSALT00000037600	4.24	3.78E-03	6234	ENSALT00000038182	6.40	2.60E-03	6302	ENSALT00000038563	5.77	1.41E-03
6167	ENSALT00000037645	1.95	4.03E-02	6235	ENSALT00000038185	3.67	3.46E-03	6303	ENSALT00000038575	2.76	5.05E-03
6168	ENSALT00000037647	2.75	1.39E-03	6236	ENSALT00000038191	5.03	2.06E-03	6304	ENSALT00000038581	2.84	1.13E-05
6169	ENSALT00000037668	3.97	6.13E-03	6237	ENSALT00000038202	2.92	2.63E-03	6305	ENSALT00000038585	3.73	6.89E-05
6170	ENSALT00000037670	5.01	3.34E-04	6238	ENSALT00000038213	5.86	9.08E-04	6306	ENSALT00000038588	1.85	4.39E-03
6171	ENSALT00000037694	2.72	4.83E-03	6239	ENSALT00000038224	6.08	3.92E-03	6307	ENSALT00000038589	5.01	1.85E-03
6172	ENSALT00000037706	4.57	3.26E-03	6240	ENSALT00000038227	3.94	9.71E-04	6308	ENSALT00000038594	7.03	1.19E-03
6173	ENSALT00000037708	3.41	1.99E-04	6241	ENSALT00000038250	2.65	1.31E-03	6309	ENSALT00000038598	3.35	2.49E-03
6174	ENSALT00000037709	4.13	5.12E-03	6242	ENSALT00000038251	1.46	3.17E-02	6310	ENSALT00000038609	2.97	4.73E-03
6175	ENSALT00000037718	3.65	1.48E-02	6243	ENSALT00000038267	2.08	2.27E-02	6311	ENSALT00000038636	1.57	5.34E-02
6176	ENSALT00000037725	4.29	1.24E-02	6244	ENSALT00000038275	5.80	4.31E-03	6312	ENSALT00000038640	4.85	3.82E-04
6177	ENSALT00000037729	2.50	4.89E-03	6245	ENSALT00000038277	2.61	8.05E-04	6313	ENSALT00000038642	4.48	1.78E-03
6178	ENSALT00000037750	3.32	2.88E-03	6246	ENSALT00000038280	3.59	1.51E-04	6314	ENSALT00000038645	5.75	2.67E-03
6179	ENSALT00000037751	1.40	2.94E-03	6247	ENSALT00000038282	1.43	7.02E-03	6315	ENSALT00000038657	3.71	2.40E-03
6180	ENSALT00000037755	5.42	5.89E-04	6248	ENSALT00000038286	2.22	2.03E-02	6316	ENSALT00000038664	4.01	3.41E-04
6181	ENSALT00000037771	3.62	2.27E-03	6249	ENSALT00000038288	2.03	1.15E-02	6317	ENSALT00000038667	4.73	8.86E-04
6182	ENSALT00000037772	2.50	2.24E-03	6250	ENSALT00000038294	2.65	7.68E-05	6318	ENSALT00000038670	3.30	1.33E-03
6183	ENSALT00000037787	3.40	1.41E-02	6251	ENSALT00000038298	1.48	2.94E-03	6319	ENSALT00000038675	5.51	4.76E-03
6184	ENSALT00000037797	5.57	2.17E-03	6252	ENSALT00000038310	2.94	8.88E-04	6320	ENSALT00000038680	4.01	7.98E-03
6185	ENSALT00000037798	3.42	2.94E-02	6253	ENSALT00000038312	2.78	4.80E-03	6321	ENSALT00000038688	4.05	1.08E-02
6186	ENSALT00000037801	5.66	1.41E-03	6254	ENSALT00000038324	6.41	1.21E-03	6322	ENSALT00000038690	1.59	1.23E-01
6187	ENSALT00000037802	5.50	1.50E-03	6255	ENSALT00000038325	5.11	3.70E-05	6323	ENSALT00000038694	5.66	1.46E-03

6324	ENSALT00000038695	4.75	4.05E-03	6392	ENSALT00000039039	6.50	4.21E-04	6460	ENSALT00000039457	5.83	2.05E-03
6325	ENSALT00000038696	4.65	3.80E-03	6393	ENSALT00000039046	2.69	6.34E-03	6461	ENSALT00000039461	7.18	6.68E-04
6326	ENSALT00000038697	6.95	1.54E-04	6394	ENSALT00000039054	1.68	4.56E-03	6462	ENSALT00000039463	4.26	1.09E-03
6327	ENSALT00000038702	4.50	8.49E-03	6395	ENSALT00000039055	1.46	2.43E-02	6463	ENSALT00000039470	3.56	2.86E-04
6328	ENSALT00000038704	7.69	2.11E-03	6396	ENSALT00000039058	4.80	3.90E-03	6464	ENSALT00000039472	6.10	1.70E-03
6329	ENSALT00000038708	3.84	1.03E-03	6397	ENSALT00000039061	1.53	2.52E-03	6465	ENSALT00000039479	6.13	2.13E-04
6330	ENSALT00000038718	5.35	1.79E-03	6398	ENSALT00000039071	3.15	7.48E-03	6466	ENSALT00000039482	2.47	2.43E-03
6331	ENSALT00000038719	5.29	1.41E-04	6399	ENSALT00000039074	3.29	3.04E-03	6467	ENSALT00000039483	5.71	1.47E-04
6332	ENSALT00000038724	2.67	8.52E-03	6400	ENSALT00000039083	6.35	7.43E-04	6468	ENSALT00000039488	4.85	9.70E-04
6333	ENSALT00000038725	3.37	2.47E-03	6401	ENSALT00000039087	1.70	2.19E-03	6469	ENSALT00000039495	1.25	2.98E-02
6334	ENSALT00000038728	6.87	1.62E-03	6402	ENSALT00000039099	3.23	7.87E-03	6470	ENSALT00000039498	4.62	5.02E-04
6335	ENSALT00000038729	2.43	6.82E-03	6403	ENSALT00000039101	6.59	2.87E-04	6471	ENSALT00000039516	4.66	2.76E-03
6336	ENSALT00000038730	1.51	5.90E-02	6404	ENSALT00000039109	2.81	6.76E-03	6472	ENSALT00000039526	4.21	3.75E-03
6337	ENSALT00000038733	3.47	9.32E-04	6405	ENSALT00000039110	2.34	6.02E-03	6473	ENSALT00000039528	1.87	3.34E-03
6338	ENSALT00000038736	3.13	1.89E-02	6406	ENSALT00000039116	2.02	1.42E-02	6474	ENSALT00000039534	2.58	7.27E-03
6339	ENSALT00000038737	2.64	9.82E-04	6407	ENSALT00000039130	8.43	8.95E-03	6475	ENSALT00000039548	1.96	1.38E-03
6340	ENSALT00000038753	2.93	2.55E-03	6408	ENSALT00000039133	2.39	1.65E-02	6476	ENSALT00000039562	4.96	2.62E-03
6341	ENSALT00000038754	2.95	8.29E-04	6409	ENSALT00000039143	1.46	2.21E-02	6477	ENSALT00000039563	2.11	1.53E-03
6342	ENSALT00000038764	4.91	9.33E-04	6410	ENSALT00000039148	1.68	6.54E-03	6478	ENSALT00000039593	2.79	1.96E-02
6343	ENSALT00000038775	4.05	9.09E-03	6411	ENSALT00000039150	4.59	2.87E-04	6479	ENSALT00000039597	1.24	9.25E-03
6344	ENSALT00000038778	5.19	2.36E-04	6412	ENSALT00000039162	3.06	9.92E-04	6480	ENSALT00000039604	3.66	8.33E-03
6345	ENSALT00000038781	6.12	9.61E-04	6413	ENSALT00000039167	2.66	2.48E-03	6481	ENSALT00000039605	1.55	1.00E-03
6346	ENSALT00000038782	4.39	6.67E-04	6414	ENSALT00000039170	4.55	1.52E-03	6482	ENSALT00000039606	4.09	6.83E-03
6347	ENSALT00000038783	5.97	6.04E-03	6415	ENSALT00000039178	3.46	3.66E-03	6483	ENSALT00000039626	3.88	3.71E-03
6348	ENSALT00000038784	2.52	5.65E-03	6416	ENSALT00000039181	5.36	1.19E-03	6484	ENSALT00000039630	3.66	5.02E-04
6349	ENSALT00000038790	4.00	4.89E-03	6417	ENSALT00000039182	3.30	5.83E-03	6485	ENSALT00000039649	6.76	1.34E-03
6350	ENSALT00000038791	2.84	6.42E-03	6418	ENSALT00000039189	1.78	3.68E-04	6486	ENSALT00000039651	4.55	1.87E-03
6351	ENSALT00000038793	5.65	1.27E-05	6419	ENSALT00000039199	6.09	1.32E-03	6487	ENSALT00000039655	1.86	2.00E-02
6352	ENSALT00000038802	1.76	2.15E-03	6420	ENSALT00000039203	5.10	2.00E-03	6488	ENSALT00000039656	3.64	7.32E-04
6353	ENSALT00000038812	4.52	2.26E-03	6421	ENSALT00000039204	2.56	2.48E-02	6489	ENSALT00000039658	2.21	2.23E-02
6354	ENSALT00000038818	3.58	1.01E-03	6422	ENSALT00000039213	1.77	4.59E-03	6490	ENSALT00000039680	4.25	1.01E-03
6355	ENSALT00000038824	4.08	1.37E-03	6423	ENSALT00000039229	6.68	5.35E-03	6491	ENSALT00000039681	2.81	1.87E-02
6356	ENSALT00000038827	5.10	2.30E-03	6424	ENSALT00000039235	3.17	7.76E-04	6492	ENSALT00000039684	2.45	7.32E-03
6357	ENSALT00000038828	3.79	2.90E-03	6425	ENSALT00000039237	1.88	2.79E-03	6493	ENSALT00000039685	3.24	7.02E-03
6358	ENSALT00000038831	6.12	2.03E-03	6426	ENSALT00000039245	7.25	1.94E-03	6494	ENSALT00000039686	3.33	4.68E-03
6359	ENSALT00000038842	4.24	9.43E-04	6427	ENSALT00000039251	2.33	3.39E-03	6495	ENSALT00000039707	2.38	1.96E-02
6360	ENSALT00000038847	6.18	1.99E-03	6428	ENSALT00000039257	6.14	1.82E-03	6496	ENSALT00000039712	2.52	2.55E-03
6361	ENSALT00000038854	4.08	6.41E-04	6429	ENSALT00000039258	4.09	1.06E-03	6497	ENSALT00000039714	1.86	2.16E-02
6362	ENSALT00000038856	2.02	5.16E-05	6430	ENSALT00000039272	3.95	1.49E-03	6498	ENSALT00000039721	7.45	8.35E-03
6363	ENSALT00000038861	5.88	9.10E-05	6431	ENSALT00000039275	2.39	2.85E-03	6499	ENSALT00000039729	6.52	1.09E-03
6364	ENSALT00000038871	2.99	2.24E-03	6432	ENSALT00000039277	1.19	1.09E-02	6500	ENSALT00000039733	2.61	1.38E-03
6365	ENSALT00000038874	3.24	7.38E-03	6433	ENSALT00000039281	5.49	2.86E-03	6501	ENSALT00000039736	2.90	8.74E-03
6366	ENSALT00000038877	1.20	2.05E-02	6434	ENSALT00000039286	1.60	2.53E-02	6502	ENSALT00000039738	2.70	1.47E-02
6367	ENSALT00000038880	1.80	1.21E-02	6435	ENSALT00000039295	3.15	2.72E-03	6503	ENSALT00000039745	5.16	2.71E-03
6368	ENSALT00000038883	1.20	1.79E-02	6436	ENSALT00000039300	2.24	2.36E-03	6504	ENSALT00000039751	1.80	8.03E-04
6369	ENSALT00000038888	3.33	5.46E-04	6437	ENSALT00000039309	1.27	1.60E-02	6505	ENSALT00000039774	4.03	3.13E-03
6370	ENSALT00000038901	6.38	7.84E-04	6438	ENSALT00000039310	1.92	2.32E-03	6506	ENSALT00000039777	1.83	2.86E-03
6371	ENSALT00000038905	4.08	1.41E-03	6439	ENSALT00000039311	1.20	1.00E-01	6507	ENSALT00000039782	3.04	7.87E-03
6372	ENSALT00000038906	3.39	1.56E-04	6440	ENSALT00000039325	2.60	3.33E-02	6508	ENSALT00000039788	4.68	3.04E-04
6373	ENSALT00000038909	6.09	1.64E-03	6441	ENSALT00000039327	5.35	2.52E-04	6509	ENSALT00000039797	3.11	3.30E-04
6374	ENSALT00000038912	5.82	1.30E-03	6442	ENSALT00000039335	3.09	4.33E-03	6510	ENSALT00000039805	4.81	6.27E-03
6375	ENSALT00000038922	1.12	3.26E-02	6443	ENSALT00000039338	3.96	1.54E-03	6511	ENSALT00000039810	3.34	6.51E-03
6376	ENSALT00000038925	3.72	3.12E-03	6444	ENSALT00000039344	3.74	4.75E-04	6512	ENSALT00000039813	3.43	1.01E-03
6377	ENSALT00000038934	1.38	9.94E-02	6445	ENSALT00000039355	2.65	2.95E-02	6513	ENSALT00000039820	3.21	1.79E-03
6378	ENSALT00000038936	1.16	7.99E-03	6446	ENSALT00000039358	2.71	6.71E-04	6514	ENSALT00000039822	4.66	1.58E-02
6379	ENSALT00000038950	2.65	6.77E-03	6447	ENSALT00000039369	2.84	1.97E-02	6515	ENSALT00000039824	5.88	6.04E-04
6380	ENSALT00000038951	3.26	2.02E-02	6448	ENSALT00000039371	2.87	6.45E-03	6516	ENSALT00000039838	4.29	2.33E-03
6381	ENSALT00000038952	3.94	4.80E-03	6449	ENSALT00000039373	2.14	3.14E-03	6517	ENSALT00000039842	6.94	3.31E-05
6382	ENSALT00000038963	5.39	6.38E-03	6450	ENSALT00000039389	5.29	6.68E-04	6518	ENSALT00000039843	3.19	5.39E-04
6383	ENSALT00000038985	5.85	5.49E-05	6451	ENSALT00000039394	2.31	5.27E-03	6519	ENSALT00000039849	2.04	5.29E-04
6384	ENSALT00000038986	2.24	3.61E-04	6452	ENSALT00000039395	4.66	4.05E-03	6520	ENSALT00000039850	4.31	2.71E-03
6385	ENSALT00000038989	6.47	6.73E-04	6453	ENSALT00000039399	3.07	6.62E-03	6521	ENSALT00000039852	5.16	4.69E-03
6386	ENSALT00000038996	3.93	2.15E-03	6454	ENSALT00000039404	5.34	8.15E-04	6522	ENSALT00000039854	4.25	6.98E-03
6387	ENSALT00000039001	2.24	1.32E-02	6455	ENSALT00000039409	4.28	5.83E-04	6523	ENSALT00000039858	1.86	1.53E-01
6388	ENSALT00000039010	5.05	3.08E-03	6456	ENSALT00000039436	4.45	5.39E-05	6524	ENSALT00000039863	3.96	3.21E-03
6389	ENSALT00000039013	5.42	2.51E-04	6457	ENSALT00000039447	3.76	8.65E-06	6525	ENSALT00000039867	4.68	7.92E-03
6390	ENSALT00000039015	2.38	6.05E-03	6458	ENSALT00000039451	4.02	1.30E-02	6526	ENSALT00000039869	2.96	9.31E-04
6391	ENSALT00000039038	5.10	2.14E-05	6459	ENSALT00000039452	4.79	1.07E-03	6527	ENSALT00000039874	5.50	5.59E-03

6528	ENSGALT00000039880	2.87	4.99E-03	6596	ENSGALT00000040284	1.73	8.08E-03	6664	ENSGALT00000040593	2.81	5.72E-04
6529	ENSGALT00000039882	2.69	2.03E-02	6597	ENSGALT00000040285	4.59	3.03E-03	6665	ENSGALT00000040598	6.25	8.48E-04
6530	ENSGALT00000039911	3.65	2.27E-03	6598	ENSGALT00000040287	3.45	2.36E-03	6666	ENSGALT00000040607	1.98	3.09E-03
6531	ENSGALT00000039912	2.78	9.62E-03	6599	ENSGALT00000040289	3.73	1.98E-02	6667	ENSGALT00000040609	1.75	7.11E-02
6532	ENSGALT00000039915	1.84	9.48E-03	6600	ENSGALT00000040302	5.74	1.42E-03	6668	ENSGALT00000040614	5.09	2.22E-02
6533	ENSGALT00000039916	3.69	1.97E-03	6601	ENSGALT00000040306	4.98	2.19E-03	6669	ENSGALT00000040615	2.94	3.78E-04
6534	ENSGALT00000039932	5.79	2.40E-04	6602	ENSGALT00000040308	2.73	3.10E-03	6670	ENSGALT00000040617	4.71	1.76E-05
6535	ENSGALT00000039935	5.65	1.42E-02	6603	ENSGALT00000040311	4.29	2.35E-04	6671	ENSGALT00000040620	2.94	1.01E-03
6536	ENSGALT00000039940	5.26	7.99E-04	6604	ENSGALT00000040315	4.22	9.48E-04	6672	ENSGALT00000040622	4.26	4.32E-04
6537	ENSGALT00000039941	5.08	1.14E-03	6605	ENSGALT00000040321	4.62	6.62E-03	6673	ENSGALT00000040629	5.08	5.74E-03
6538	ENSGALT00000039943	2.53	1.25E-02	6606	ENSGALT00000040322	2.89	8.18E-04	6674	ENSGALT00000040630	3.67	7.96E-04
6539	ENSGALT00000039945	2.71	1.98E-03	6607	ENSGALT00000040325	1.56	2.58E-03	6675	ENSGALT00000040632	2.54	1.14E-02
6540	ENSGALT00000039955	1.90	8.05E-03	6608	ENSGALT00000040326	6.46	3.84E-03	6676	ENSGALT00000040644	6.55	1.36E-03
6541	ENSGALT00000039963	1.30	1.66E-02	6609	ENSGALT00000040329	3.73	7.50E-03	6677	ENSGALT00000040646	3.13	5.36E-04
6542	ENSGALT00000039964	3.06	9.78E-04	6610	ENSGALT00000040341	1.98	1.99E-03	6678	ENSGALT00000040647	1.48	3.01E-03
6543	ENSGALT00000039973	2.34	3.20E-03	6611	ENSGALT00000040342	2.48	2.06E-02	6679	ENSGALT00000040665	3.40	2.50E-03
6544	ENSGALT00000039975	3.29	4.31E-05	6612	ENSGALT00000040346	1.22	7.91E-02	6680	ENSGALT00000040668	2.85	1.18E-03
6545	ENSGALT00000039987	6.74	3.68E-03	6613	ENSGALT00000040348	1.60	1.28E-02	6681	ENSGALT00000040677	2.30	7.09E-02
6546	ENSGALT00000039990	3.32	2.87E-03	6614	ENSGALT00000040354	2.24	1.47E-02	6682	ENSGALT00000040679	2.31	4.97E-04
6547	ENSGALT00000039994	4.14	2.29E-03	6615	ENSGALT00000040358	5.92	1.78E-03	6683	ENSGALT00000040684	1.80	1.29E-02
6548	ENSGALT00000039997	2.53	1.18E-02	6616	ENSGALT00000040375	6.28	1.04E-02	6684	ENSGALT00000040689	6.01	1.10E-02
6549	ENSGALT00000040013	3.27	2.45E-02	6617	ENSGALT00000040377	8.72	1.62E-04	6685	ENSGALT00000040693	1.85	1.55E-02
6550	ENSGALT00000040015	5.94	1.00E-02	6618	ENSGALT00000040379	8.88	2.85E-04	6686	ENSGALT00000040694	2.97	1.88E-03
6551	ENSGALT00000040016	3.54	1.66E-02	6619	ENSGALT00000040381	5.02	5.78E-05	6687	ENSGALT00000040699	2.13	2.25E-03
6552	ENSGALT00000040021	4.64	3.34E-03	6620	ENSGALT00000040387	6.03	1.05E-03	6688	ENSGALT00000040704	5.60	2.63E-03
6553	ENSGALT00000040032	6.66	1.11E-02	6621	ENSGALT00000040388	4.51	1.03E-03	6689	ENSGALT00000040710	2.50	7.48E-03
6554	ENSGALT00000040035	2.61	2.36E-03	6622	ENSGALT00000040391	4.90	2.52E-02	6690	ENSGALT00000040715	2.82	9.51E-03
6555	ENSGALT00000040044	2.63	8.00E-03	6623	ENSGALT00000040394	3.24	8.28E-03	6691	ENSGALT00000040716	4.71	2.02E-04
6556	ENSGALT00000040048	7.35	9.84E-06	6624	ENSGALT00000040397	2.85	3.25E-03	6692	ENSGALT00000040717	3.90	3.51E-03
6557	ENSGALT00000040051	2.23	7.51E-03	6625	ENSGALT00000040408	4.23	3.31E-03	6693	ENSGALT00000040728	4.80	2.78E-03
6558	ENSGALT00000040055	3.66	8.74E-04	6626	ENSGALT00000040413	2.14	1.66E-02	6694	ENSGALT00000040730	4.38	1.56E-03
6559	ENSGALT00000040067	1.67	1.67E-02	6627	ENSGALT00000040419	5.88	5.45E-04	6695	ENSGALT00000040731	3.32	1.37E-03
6560	ENSGALT00000040069	4.34	1.04E-03	6628	ENSGALT00000040432	8.29	1.74E-02	6696	ENSGALT00000040734	2.59	1.15E-01
6561	ENSGALT00000040078	2.83	1.23E-03	6629	ENSGALT00000040433	3.48	1.17E-03	6697	ENSGALT00000040747	2.58	1.72E-03
6562	ENSGALT00000040080	5.60	1.77E-04	6630	ENSGALT00000040434	4.60	9.16E-04	6698	ENSGALT00000040757	4.49	3.16E-03
6563	ENSGALT00000040089	1.32	2.04E-03	6631	ENSGALT00000040451	1.09	2.91E-03	6699	ENSGALT00000040765	5.07	1.19E-03
6564	ENSGALT00000040107	3.96	2.03E-02	6632	ENSGALT00000040454	3.34	3.35E-03	6700	ENSGALT00000040767	4.46	3.63E-05
6565	ENSGALT00000040114	1.99	9.77E-03	6633	ENSGALT00000040455	3.65	1.19E-02	6701	ENSGALT00000040768	1.89	3.28E-03
6566	ENSGALT00000040119	5.07	3.27E-04	6634	ENSGALT00000040456	1.72	9.44E-04	6702	ENSGALT00000040771	1.86	2.32E-02
6567	ENSGALT00000040125	2.46	5.15E-02	6635	ENSGALT00000040461	2.77	1.30E-04	6703	ENSGALT00000040776	7.30	1.71E-03
6568	ENSGALT00000040126	1.79	5.51E-02	6636	ENSGALT00000040465	3.40	7.44E-03	6704	ENSGALT00000040778	6.98	3.73E-04
6569	ENSGALT00000040142	1.79	1.90E-03	6637	ENSGALT00000040466	4.00	4.87E-03	6705	ENSGALT00000040781	3.73	5.99E-03
6570	ENSGALT00000040144	1.82	3.17E-02	6638	ENSGALT00000040468	1.41	1.19E-01	6706	ENSGALT00000040782	7.25	1.48E-03
6571	ENSGALT00000040165	5.92	1.03E-03	6639	ENSGALT00000040469	5.61	7.57E-04	6707	ENSGALT00000040786	1.94	2.40E-02
6572	ENSGALT00000040176	1.65	4.78E-03	6640	ENSGALT00000040478	2.85	3.09E-02	6708	ENSGALT00000040790	4.73	4.95E-04
6573	ENSGALT00000040181	3.43	2.33E-03	6641	ENSGALT00000040481	3.60	6.38E-03	6709	ENSGALT00000040798	2.16	1.27E-02
6574	ENSGALT00000040188	2.20	1.71E-03	6642	ENSGALT00000040486	5.92	1.19E-02	6710	ENSGALT00000040801	3.33	2.58E-02
6575	ENSGALT00000040189	3.37	3.47E-04	6643	ENSGALT00000040491	1.40	2.68E-02	6711	ENSGALT00000040802	6.62	3.18E-04
6576	ENSGALT00000040198	1.79	2.20E-02	6644	ENSGALT00000040498	3.42	5.67E-03	6712	ENSGALT00000040803	4.96	5.24E-03
6577	ENSGALT00000040199	4.99	1.05E-02	6645	ENSGALT00000040504	2.40	4.60E-03	6713	ENSGALT00000040811	8.56	2.30E-03
6578	ENSGALT00000040201	4.36	1.06E-03	6646	ENSGALT00000040510	3.06	1.14E-03	6714	ENSGALT00000040813	2.11	4.77E-02
6579	ENSGALT00000040205	5.80	1.51E-04	6647	ENSGALT00000040517	5.73	3.87E-03	6715	ENSGALT00000040814	4.21	1.84E-03
6580	ENSGALT00000040217	3.41	7.64E-03	6648	ENSGALT00000040520	5.02	2.48E-04	6716	ENSGALT00000040821	5.97	1.76E-03
6581	ENSGALT00000040220	1.66	1.13E-01	6649	ENSGALT00000040521	3.65	1.85E-03	6717	ENSGALT00000040825	5.58	7.42E-05
6582	ENSGALT00000040224	6.14	7.84E-04	6650	ENSGALT00000040530	1.71	1.51E-02	6718	ENSGALT00000040827	4.02	7.97E-04
6583	ENSGALT00000040228	4.27	3.46E-03	6651	ENSGALT00000040532	1.78	2.33E-02	6719	ENSGALT00000040833	1.92	3.20E-02
6584	ENSGALT00000040232	7.36	1.19E-03	6652	ENSGALT00000040539	3.12	8.08E-03	6720	ENSGALT00000040835	4.21	5.54E-04
6585	ENSGALT00000040241	3.03	1.70E-03	6653	ENSGALT00000040540	2.48	1.88E-03	6721	ENSGALT00000040837	5.42	9.50E-03
6586	ENSGALT00000040252	1.91	1.04E-01	6654	ENSGALT00000040545	4.00	5.02E-03	6722	ENSGALT00000040838	3.67	2.71E-02
6587	ENSGALT00000040254	1.92	2.26E-03	6655	ENSGALT00000040551	3.46	1.06E-03	6723	ENSGALT00000040839	1.64	3.09E-03
6588	ENSGALT00000040256	4.01	1.39E-02	6656	ENSGALT00000040565	1.13	2.20E-02	6724	ENSGALT00000040840	7.04	3.61E-04
6589	ENSGALT00000040257	3.62	1.64E-04	6657	ENSGALT00000040566	3.30	5.97E-02	6725	ENSGALT00000040866	6.22	9.99E-04
6590	ENSGALT00000040261	2.10	1.60E-01	6658	ENSGALT00000040567	1.93	4.45E-03	6726	ENSGALT00000040868	6.05	3.23E-04
6591	ENSGALT00000040263	4.72	1.62E-03	6659	ENSGALT00000040571	4.51	1.21E-02	6727	ENSGALT00000040871	3.06	9.67E-02
6592	ENSGALT00000040270	4.83	3.21E-04	6660	ENSGALT00000040579	5.03	2.02E-03	6728	ENSGALT00000040875	7.87	2.07E-04
6593	ENSGALT00000040273	2.04	3.32E-02	6661	ENSGALT00000040585	2.57	7.82E-03	6729	ENSGALT00000040879	4.18	1.05E-02
6594	ENSGALT00000040274	3.59	6.52E-03	6662	ENSGALT00000040588	7.47	8.21E-04	6730	ENSGALT00000040880	2.85	1.15E-02
6595	ENSGALT00000040281	3.78	2.26E-02	6663	ENSGALT00000040592	4.49	2.30E-03	6731	ENSGALT00000040883	6.48	7.74E-05

6732	ENSGALT00000040885	8.84	5.97E-04	6800	ENSGALT00000041189	3.33	9.34E-04	6868	ERB82	3.37	1.54E-03
6733	ENSGALT00000040888	6.18	2.90E-04	6801	ENSGALT00000041194	4.34	2.11E-03	6869	ERB83	1.28	1.23E-02
6734	ENSGALT00000040892	9.58	3.28E-04	6802	ENSGALT00000041196	2.77	1.09E-03	6870	ERC2	2.36	1.86E-02
6735	ENSGALT00000040900	6.84	9.41E-04	6803	ENSGALT00000041208	2.70	7.04E-04	6871	ERG	4.92	4.76E-03
6736	ENSGALT00000040905	9.17	1.54E-04	6804	ENSGALT00000041209	3.70	2.09E-04	6872	ERI2	2.21	8.61E-04
6737	ENSGALT00000040906	7.30	2.46E-04	6805	ENSGALT00000041210	2.24	7.40E-04	6873	ERMN	1.46	2.33E-02
6738	ENSGALT00000040909	3.28	6.10E-04	6806	ENSGALT00000041213	5.13	7.22E-04	6874	ERMP1	1.95	6.88E-03
6739	ENSGALT00000040913	9.18	1.59E-04	6807	ENSGALT00000041220	4.92	1.77E-04	6875	ERN1	1.85	6.02E-02
6740	ENSGALT00000040914	4.38	9.00E-03	6808	ENSGALT00000041221	4.11	5.55E-03	6876	ERNI	7.37	2.84E-04
6741	ENSGALT00000040916	8.15	8.38E-04	6809	ENSGALT00000041226	8.28	9.63E-04	6877	ERP27	3.55	1.16E-03
6742	ENSGALT00000040917	9.07	6.61E-04	6810	ENSGALT00000041235	4.53	9.11E-03	6878	ESAM	4.29	6.80E-04
6743	ENSGALT00000040918	8.62	8.37E-04	6811	ENSGALT00000041249	2.07	4.19E-02	6879	ESCO2	1.48	1.63E-02
6744	ENSGALT00000040922	6.74	7.62E-04	6812	ENSGALT00000041250	3.87	1.00E-03	6880	ESPN	6.43	6.62E-03
6745	ENSGALT00000040925	3.71	8.37E-02	6813	ENSGALT00000041251	2.76	1.12E-02	6881	ESR1	4.78	2.59E-02
6746	ENSGALT00000040929	4.77	7.02E-04	6814	ENSGALT00000041256	5.33	6.51E-03	6882	ESR2	1.60	1.42E-02
6747	ENSGALT00000040932	6.00	7.17E-04	6815	ENSGALT00000041260	3.18	5.10E-03	6883	ESRP2	6.11	5.93E-03
6748	ENSGALT00000040934	4.72	8.67E-04	6816	ENSGALT00000041264	3.19	2.39E-03	6884	ETHE1	2.58	3.64E-02
6749	ENSGALT00000040935	8.54	3.06E-05	6817	ENSGALT00000041267	3.01	5.75E-04	6885	ETV4	3.21	7.59E-03
6750	ENSGALT00000040936	6.29	5.75E-04	6818	ENSGALT00000041278	6.23	7.13E-03	6886	ETV6	1.14	1.81E-03
6751	ENSGALT00000040938	5.11	6.51E-03	6819	ENSGALT00000041293	1.90	2.50E-02	6887	EU048537	6.26	1.38E-03
6752	ENSGALT00000040954	3.24	9.27E-03	6820	ENSGALT00000041295	7.22	3.12E-06	6888	EU240249	1.73	5.33E-02
6753	ENSGALT00000040955	2.91	3.49E-03	6821	ENSGALT00000041304	6.39	2.02E-03	6889	EU240251	3.03	1.10E-02
6754	ENSGALT00000040962	6.34	7.42E-03	6822	ENSGALT00000041306	3.25	2.16E-03	6890	EU240259	2.85	1.23E-02
6755	ENSGALT00000040963	4.74	6.61E-03	6823	ENSGALT00000041308	9.11	3.23E-04	6891	EU240263	3.06	4.98E-04
6756	ENSGALT00000040968	5.64	7.27E-03	6824	ENSGALT00000041309	6.05	7.23E-05	6892	EU240282	2.45	1.72E-02
6757	ENSGALT00000040974	4.41	8.31E-04	6825	ENSGALT00000041314	3.08	9.29E-04	6893	EU240300	1.16	1.35E-01
6758	ENSGALT00000040977	3.42	1.74E-03	6826	ENSGALT00000041319	1.11	1.11E-02	6894	EU240324	2.66	4.65E-03
6759	ENSGALT00000040981	5.95	1.88E-04	6827	ENSGALT00000041322	2.42	1.13E-01	6895	EU340348	5.00	4.20E-04
6760	ENSGALT00000040982	2.54	6.43E-04	6828	ENSGALT00000041327	4.26	5.67E-03	6896	EU360443	5.56	7.07E-04
6761	ENSGALT00000040986	1.20	7.39E-04	6829	ENSGALT00000041333	4.27	6.32E-04	6897	EU360445	2.88	6.90E-04
6762	ENSGALT00000040993	3.28	1.14E-04	6830	ENSGALT00000041336	3.89	4.48E-03	6898	EU360446	1.84	1.19E-02
6763	ENSGALT00000040994	4.82	2.74E-04	6831	ENSGALT00000041339	3.33	2.68E-04	6899	EU583987	3.48	2.66E-02
6764	ENSGALT00000040995	5.05	4.11E-03	6832	ENSGALT00000041342	1.96	4.23E-02	6900	EVC2	1.72	5.93E-03
6765	ENSGALT00000041007	3.11	2.60E-03	6833	ENSGALT00000041344	7.32	9.05E-05	6901	EV12A	2.70	1.89E-03
6766	ENSGALT00000041008	6.01	2.52E-03	6834	ENSGALT00000041345	4.18	2.16E-03	6902	EV12B	4.32	1.36E-02
6767	ENSGALT00000041015	2.03	3.44E-02	6835	ENSGALT00000041346	5.35	1.93E-02	6903	EV1SL	1.58	3.41E-02
6768	ENSGALT00000041016	1.66	2.98E-02	6836	ENSGALT00000041349	1.38	4.71E-06	6904	EVPL	5.77	3.16E-04
6769	ENSGALT00000041025	2.48	5.66E-03	6837	ENSGALT00000041352	4.60	5.32E-04	6905	EVX1	7.11	7.99E-04
6770	ENSGALT00000041030	2.79	1.18E-03	6838	ENSGALT00000041355	2.65	1.04E-02	6906	EXOC3L1	3.13	2.40E-03
6771	ENSGALT00000041051	1.42	2.92E-02	6839	ENSGALT00000041356	2.51	1.10E-03	6907	EYA4	4.73	1.33E-03
6772	ENSGALT00000041053	3.68	8.44E-04	6840	ENSGALT00000041357	3.73	7.41E-03	6908	EYS	5.60	1.41E-04
6773	ENSGALT00000041058	4.57	3.07E-03	6841	ENSGALT00000041358	1.35	1.59E-02	6909	F11	7.08	1.79E-02
6774	ENSGALT00000041060	5.76	2.54E-04	6842	ENSGALT00000041361	5.65	6.63E-03	6910	F2	2.28	1.44E-02
6775	ENSGALT00000041069	5.38	8.35E-03	6843	ENSGALT00000041365	4.12	3.73E-04	6911	F2R	3.98	3.28E-03
6776	ENSGALT00000041070	5.77	3.43E-03	6844	ENSGALT00000041366	5.96	5.94E-04	6912	F7	4.96	3.40E-03
6777	ENSGALT00000041071	5.95	3.73E-03	6845	ENSGALT00000041370	4.11	2.12E-03	6913	FABP2	4.59	8.06E-03
6778	ENSGALT00000041073	3.90	4.31E-03	6846	ENSGALT00000041372	3.65	1.83E-03	6914	FADD	1.65	6.77E-03
6779	ENSGALT00000041076	8.41	3.14E-03	6847	ENSGALT00000041375	2.34	3.71E-06	6915	FADS6	4.22	1.87E-04
6780	ENSGALT00000041083	1.15	2.59E-03	6848	ENSGALT00000041378	5.93	1.34E-04	6916	FAH	2.29	1.69E-02
6781	ENSGALT00000041088	5.12	7.53E-04	6849	ENSGALT00000041380	3.47	1.20E-02	6917	FAM101A	4.35	1.68E-03
6782	ENSGALT00000041093	5.96	1.28E-02	6850	ENSGALT00000041385	7.14	4.83E-03	6918	FAM101B	3.49	1.02E-02
6783	ENSGALT00000041100	3.03	4.13E-04	6851	ENSGALT00000041386	3.68	2.79E-03	6919	FAM109B	4.00	1.06E-04
6784	ENSGALT00000041101	3.28	6.70E-04	6852	ENSGALT00000041387	2.67	1.75E-02	6920	FAM117B	1.99	6.39E-05
6785	ENSGALT00000041109	3.91	4.11E-03	6853	ENSGALT00000041388	1.49	1.41E-02	6921	FAM124A	1.79	2.76E-02
6786	ENSGALT00000041116	1.44	4.64E-02	6854	ENTPD2	2.86	2.14E-02	6922	FAM124B	4.12	7.76E-04
6787	ENSGALT00000041126	3.28	7.93E-02	6855	ENTPD3	1.32	4.30E-02	6923	FAM13C	1.76	7.49E-03
6788	ENSGALT00000041128	4.71	5.18E-04	6856	ENTPD7	2.93	3.61E-02	6924	FAM149A	3.92	3.94E-03
6789	ENSGALT00000041129	4.31	5.38E-03	6857	ENTPD8	3.09	2.99E-03	6925	FAM155A	5.23	8.10E-03
6790	ENSGALT00000041134	1.39	2.25E-02	6858	EPB42	1.47	5.09E-02	6926	FAM155B	4.20	4.06E-03
6791	ENSGALT00000041135	2.46	8.43E-03	6859	EPGN	3.46	1.87E-02	6927	FAM160B1	2.18	1.57E-03
6792	ENSGALT00000041144	4.42	2.99E-03	6860	EPHA10	6.60	1.36E-03	6928	FAM163A	3.47	6.67E-04
6793	ENSGALT00000041147	1.82	1.43E-02	6861	EPHA2	2.41	2.72E-02	6929	FAM167A	3.04	5.51E-03
6794	ENSGALT00000041149	3.01	8.15E-03	6862	EPHA3	1.95	3.29E-02	6930	FAM167B	2.29	9.90E-03
6795	ENSGALT00000041153	3.69	4.88E-04	6863	EPHA5	1.26	1.33E-02	6931	FAM168B	1.17	9.50E-03
6796	ENSGALT00000041163	5.44	3.10E-03	6864	EPHA6	4.90	6.06E-03	6932	FAM171A1	1.69	8.87E-04
6797	ENSGALT00000041165	4.73	2.81E-03	6865	EPHA7	3.44	7.58E-03	6933	FAM176A	4.04	6.26E-03
6798	ENSGALT00000041173	4.19	2.92E-03	6866	EPHX4	1.88	1.67E-02	6934	FAM180A	4.50	1.04E-03
6799	ENSGALT00000041176	3.14	6.24E-04	6867	EPYC	3.70	5.99E-03	6935	FAM189A2	2.52	5.90E-03

6936	FAM190B	1.92	1.82E-03	7004	FKBP15	1.55	1.37E-02	7072	FZD7	1.24	1.54E-03
6937	FAM193B	1.67	1.71E-03	7005	F-KER	6.44	5.38E-05	7073	GAA	3.53	2.54E-03
6938	FAM19A2	4.12	7.14E-04	7006	FKTN	1.50	2.98E-02	7074	GABBR2	7.16	2.78E-03
6939	FAM19A3	2.99	4.63E-03	7007	FLII	1.35	7.87E-02	7075	GABRA2	5.01	3.79E-03
6940	FAM208B	1.19	1.54E-02	7008	FLNA	2.28	7.76E-03	7076	GABRA6	2.99	1.51E-04
6941	FAM20C	1.08	1.35E-02	7009	FLNC	2.61	1.07E-02	7077	GABRB2	1.13	1.44E-03
6942	FAM211A	4.29	4.06E-02	7010	FLRT2	2.09	2.42E-03	7078	GABRD	1.99	6.14E-03
6943	FAM26D	5.62	3.60E-03	7011	FLT1	1.84	2.59E-04	7079	GABRE	3.39	9.89E-04
6944	FAM26E	4.82	1.79E-04	7012	FLT4	2.91	2.16E-03	7080	GABRG1	3.04	5.77E-03
6945	FAM26F	5.37	1.11E-03	7013	FLVCR1	1.48	1.62E-02	7081	GABRG2	3.47	3.20E-04
6946	FAM38B	5.05	2.22E-03	7014	FLVCR2	2.92	1.52E-03	7082	GABRP	2.80	7.50E-02
6947	FAM3D	6.47	9.58E-03	7015	FLYWCH2	3.90	7.27E-03	7083	GABRQ	4.39	1.60E-02
6948	FAM43A	5.00	3.45E-04	7016	FM200235	6.43	6.07E-04	7084	GABRR1	6.37	5.38E-03
6949	FAM46B	2.73	5.02E-05	7017	FM200248	6.48	3.41E-04	7085	GAD2	2.99	5.22E-03
6950	FAM46C	1.93	7.01E-04	7018	FM200260	6.56	4.58E-03	7086	GAL	3.18	3.48E-04
6951	FAM55C	3.47	5.42E-03	7019	FM200272	6.68	3.03E-04	7087	GAL1	3.89	3.83E-04
6952	FAM5B	5.75	2.25E-03	7020	FM200317	5.50	2.67E-03	7088	GAL10	7.00	4.83E-04
6953	FAM5C	2.90	4.25E-04	7021	FM200318	5.92	3.13E-03	7089	GAL11	2.89	2.96E-03
6954	FAM78B	1.30	3.15E-03	7022	FM200329	7.05	5.55E-04	7090	GAL12	4.07	3.86E-04
6955	FAM82A1	3.02	8.78E-04	7023	FM200393	5.82	1.22E-03	7091	GAL13	4.31	5.39E-04
6956	FAM83B	2.33	2.18E-03	7024	FM955443	2.97	3.32E-03	7092	GAL3ST1	4.17	2.83E-04
6957	FAM83F	2.64	1.08E-02	7025	FMN2	4.30	2.46E-03	7093	GAL3ST4	6.24	4.44E-04
6958	FAM83G	4.55	1.32E-03	7026	FMNL2	2.55	4.32E-02	7094	GAL4	3.33	1.60E-03
6959	FAM84B	3.16	2.05E-03	7027	FMO4	5.89	7.75E-04	7095	GAL5	3.40	2.04E-03
6960	FAR2	2.45	1.27E-03	7028	FNDC1	3.87	1.97E-03	7096	GAL6	6.39	1.44E-03
6961	FASLG	1.71	1.21E-02	7029	FNDC3B	1.78	7.65E-03	7097	GAL7	3.44	1.25E-02
6962	FASTKD5	4.18	3.38E-03	7030	FNDC4	3.53	8.36E-04	7098	GAL8	3.42	6.53E-03
6963	FAT2	5.60	7.33E-04	7031	FNDC5	3.96	8.86E-03	7099	GAL9	3.65	8.98E-04
6964	FAT3	3.69	3.28E-03	7032	FNIP1	2.89	3.16E-04	7100	GALE	3.49	1.32E-04
6965	FBLN5	2.53	7.96E-03	7033	FNIP2	1.20	6.31E-03	7101	GALK1	2.27	5.54E-02
6966	FBLN7	1.58	9.82E-04	7034	FOSL2	4.30	7.09E-05	7102	GALNT10	2.82	9.14E-03
6967	FBN1	1.65	3.57E-03	7035	FOXA2	6.25	1.03E-03	7103	GALNT12	5.80	9.00E-03
6968	FBN3	3.34	1.03E-05	7036	FOXC2	5.03	1.28E-03	7104	GALNT13	3.45	4.71E-05
6969	FBP2	2.36	8.78E-03	7037	FOXD1	2.86	6.91E-03	7105	GALNT14	2.66	5.60E-03
6970	FBXL12	2.21	2.30E-02	7038	FOXD3	4.71	7.43E-03	7106	GALNT6	2.04	2.97E-03
6971	FBXL15	3.47	5.03E-03	7039	FOXF1	3.47	4.72E-03	7107	GALNTL6	2.17	1.92E-02
6972	FBXL16	4.33	6.13E-03	7040	FOXG1	1.93	2.11E-02	7108	GALR1	5.58	1.97E-02
6973	FBXO2	2.47	1.09E-03	7041	FOXI1	5.42	4.20E-03	7109	GALR2	4.69	2.30E-04
6974	FBXO40	1.25	6.16E-02	7042	FOXI3	5.39	3.43E-03	7110	GALR3	4.83	7.35E-03
6975	FBXW2	2.70	7.15E-04	7043	FOXI1	6.45	3.54E-04	7111	GAP43	2.93	1.92E-03
6976	FCHSD1	5.36	4.72E-03	7044	FOXL2	3.51	1.43E-03	7112	GAS2L2	5.97	4.48E-04
6977	FCRL2	4.08	1.14E-03	7045	FOXN1	3.65	5.33E-03	7113	GATA2	3.87	2.57E-03
6978	FERD3L	6.07	2.81E-03	7046	FOXO1	2.38	1.39E-03	7114	GATA3	5.96	6.50E-04
6979	FET1	4.86	4.55E-04	7047	FOXO3	1.79	1.84E-02	7115	GATA4	1.16	2.29E-02
6980	FEZ1	1.88	1.83E-03	7048	FOXA0	2.46	4.24E-04	7116	GATA5	3.35	5.84E-03
6981	FGF1	1.13	6.49E-02	7049	FOXP1	1.70	3.00E-06	7117	GATSL3	3.82	2.26E-03
6982	FGF10	4.85	8.56E-04	7050	FPGS	3.14	5.17E-03	7118	GBP7	2.58	1.44E-03
6983	FGF13	2.83	7.03E-03	7051	FRAS1	3.70	5.38E-04	7119	GBX1	1.75	2.47E-03
6984	FGF16	2.96	8.10E-03	7052	FRK	5.26	2.56E-03	7120	GBX2	4.01	1.46E-03
6985	FGF20	4.39	6.69E-03	7053	FRMD4B	2.59	4.51E-03	7121	GCFC2	3.02	6.75E-04
6986	FGF23	5.52	2.80E-03	7054	FRMD5	2.66	4.56E-03	7122	GCHFR	1.61	1.87E-02
6987	FGF3	4.55	5.02E-03	7055	FRMD6	1.70	7.62E-03	7123	GCK	1.21	2.97E-02
6988	FGF4	4.99	3.43E-03	7056	FRMD7	3.67	3.99E-03	7124	GCM1	2.21	1.47E-02
6989	FGF6	6.18	4.69E-04	7057	FRMPD3	4.60	1.81E-02	7125	GCM2	5.17	1.74E-02
6990	FGF7	4.32	3.29E-04	7058	FSD2	1.65	6.26E-03	7126	GCN1L1	4.88	2.69E-03
6991	FGF8	2.92	1.32E-02	7059	FSHB	5.55	3.78E-04	7127	GCNT1	2.69	8.76E-04
6992	FGF9	2.09	7.53E-03	7060	FST	1.64	3.71E-02	7128	GDA	2.33	4.28E-03
6993	FGFR1	3.80	1.97E-03	7061	FSTL1	1.46	1.38E-03	7129	GDAP1	1.46	4.67E-03
6994	FGFR4	3.56	4.16E-05	7062	FTSJD1	4.55	7.28E-04	7130	GDAP1L1	1.88	3.22E-04
6995	FHF-2	5.17	6.35E-04	7063	FTSJD2	2.42	5.79E-03	7131	GDF5	1.84	3.48E-02
6996	FHL5	3.83	6.31E-03	7064	FUK	3.49	4.12E-03	7132	GDF7	4.67	6.65E-04
6997	FHOD3	3.18	1.46E-02	7065	FURIN	1.91	2.28E-02	7133	GDF9	5.28	4.71E-04
6998	FIBCD1	3.80	5.55E-03	7066	FUT4	5.83	6.99E-03	7134	GDNF	3.00	8.68E-03
6999	FIGNL2	6.66	6.01E-04	7067	FUT5	3.60	5.64E-04	7135	GDPD4	4.69	2.63E-03
7000	FILIP1L	3.60	1.54E-02	7068	FUT7	4.76	3.81E-04	7136	GDPD5	1.30	2.13E-03
7001	FJ548639	3.60	7.02E-03	7069	FUT9	6.77	7.60E-05	7137	GEMIN2	3.08	7.95E-03
7002	FJ605355	4.57	1.19E-02	7070	FZD10	3.82	1.27E-02	7138	GFAP	4.96	4.42E-04
7003	FJ605357	2.61	2.66E-02	7071	FZD2	1.73	3.18E-02	7139	GFI1B	4.75	4.71E-03

7140	GFOD1	1.68	2.63E-02	7208	GPR142	3.33	4.46E-03	7276	GSG1	5.00	1.39E-04
7141	GFRA1	1.78	3.64E-03	7209	GPR146	3.03	3.13E-03	7277	GSG1L	2.92	5.83E-04
7142	GFRA2	5.24	8.58E-04	7210	GPR15	3.14	2.97E-04	7278	GTFC3C4	3.40	1.49E-02
7143	GGCT	1.24	4.98E-03	7211	GPR151	3.26	4.52E-03	7279	GUCA1B	3.41	4.23E-03
7144	GGT5	2.52	4.05E-03	7212	GPR157	3.54	3.38E-03	7280	GUCA1C	4.79	1.62E-02
7145	GGT7	1.41	1.83E-02	7213	GPR17	4.75	3.50E-03	7281	GUCY1A2	1.20	1.09E-01
7146	GH	5.10	4.45E-03	7214	GPR171	4.22	5.16E-04	7282	GUCY1A3	1.79	2.54E-02
7147	GHDC	4.15	1.65E-02	7215	GPR174	1.82	8.67E-03	7283	GUCY2F	2.86	1.65E-02
7148	GHRH	2.17	6.29E-03	7216	GPR183	4.08	1.30E-04	7284	GVINP1	6.33	1.79E-03
7149	GHRH-LR	4.47	3.60E-03	7217	GPR20	3.92	3.06E-05	7285	GYLTL1B	4.32	3.45E-04
7150	GHRHR	4.56	3.63E-03	7218	GPR22	3.35	1.01E-03	7286	GYPC	1.45	8.33E-03
7151	GHSR	6.72	1.56E-03	7219	GPR25	2.16	8.72E-03	7287	GYS1	1.58	9.52E-02
7152	GIMAP5	3.50	1.16E-04	7220	GPR26	5.61	6.69E-03	7288	GZMA	2.41	1.06E-03
7153	GIMAP8	4.35	3.73E-05	7221	GPR27	1.53	1.69E-02	7289	H1FOO	2.54	1.11E-02
7154	GIMD1	8.46	3.74E-04	7222	GPR35	4.62	5.21E-03	7290	H6PD	4.41	7.06E-04
7155	GIPC2	2.35	2.85E-02	7223	GPR37L1	5.21	4.55E-03	7291	HAND1	3.89	1.01E-02
7156	GIT1	1.94	3.57E-02	7224	GPR52	4.40	1.17E-03	7292	HAND2	1.92	1.76E-02
7157	GJA3	4.44	1.41E-03	7225	GPR55	3.83	1.37E-03	7293	HAPLN1	1.43	2.05E-02
7158	GJA4	1.45	2.44E-02	7226	GPR56	3.65	3.02E-03	7294	HAPLN2	5.36	2.35E-03
7159	GJA5	2.91	7.20E-03	7227	GPR6	4.69	9.73E-03	7295	HAPLN3	5.59	5.78E-03
7160	GJA8	3.58	5.46E-04	7228	GPR68	3.18	6.56E-04	7296	HARS2	2.10	4.70E-04
7161	GJB2	3.41	4.31E-04	7229	GPR75	1.77	6.68E-03	7297	HAS3	2.09	1.48E-01
7162	GJB5	2.47	5.37E-03	7230	GPR78	7.42	7.56E-06	7298	HAVCR1	1.39	3.23E-03
7163	GJD2	2.98	8.73E-02	7231	GPR83	1.17	1.02E-02	7299	HBE1	5.16	4.07E-04
7164	GJD4	5.22	9.69E-05	7232	GPR83-L	3.27	6.57E-03	7300	HBEGF	4.25	9.83E-04
7165	GKN1	2.39	1.51E-02	7233	GPR85	1.54	6.01E-04	7301	HBG1	3.05	3.38E-03
7166	GKN2	1.51	1.50E-02	7234	GPR87	2.15	3.40E-02	7302	HBXIP	1.52	1.66E-02
7167	GLA	1.55	2.27E-03	7235	GPR88	3.70	5.17E-04	7303	HCK	2.05	3.57E-04
7168	GLCE	5.85	6.07E-03	7236	GPR89B	2.41	5.63E-02	7304	HCLS1	2.23	1.18E-02
7169	GLDC	1.37	3.55E-03	7237	GPR97	3.61	1.05E-02	7305	HCRT	4.96	5.51E-03
7170	GLU1	1.73	1.92E-02	7238	GPRC5A	2.52	1.17E-03	7306	HCRTR2	2.98	1.78E-02
7171	GLU2	2.37	7.94E-04	7239	GPRC5C	3.78	2.21E-04	7307	HDAC7	1.78	9.39E-02
7172	GLUPR1	3.36	4.98E-04	7240	GPRC6A	5.40	1.27E-02	7308	HDAC9	1.54	3.25E-02
7173	GLUS2	3.07	2.85E-02	7241	GPRIN2	3.26	2.23E-02	7309	HDC	1.60	1.05E-02
7174	GLOD5	7.31	2.36E-05	7242	GPRIN3	4.06	2.57E-03	7310	HEBP2	4.48	3.37E-03
7175	GLP2R	2.19	5.64E-03	7243	GRAMD1B	1.10	7.12E-03	7311	HECA	1.35	1.84E-02
7176	GLRA1	7.14	2.17E-03	7244	GRAP	2.46	1.02E-02	7312	HELZ2	3.51	8.16E-04
7177	GLRA2	3.25	1.20E-02	7245	GRAP2	6.02	5.44E-03	7313	HEP21	4.27	1.02E-04
7178	GLRA3	4.04	3.90E-03	7246	GREB1	3.96	1.45E-02	7314	HEPACAM	1.66	4.52E-02
7179	GLRA4	1.44	7.42E-02	7247	GREB1L	2.84	7.72E-03	7315	HEPACAM2	5.83	6.23E-03
7180	GLRB	1.88	2.40E-03	7248	GREM1	4.87	6.32E-03	7316	HEPH	1.41	4.63E-02
7181	GLTSCR1L	2.47	3.74E-03	7249	GREM2	4.43	1.51E-03	7317	HES1	2.93	5.96E-03
7182	GLYCTK	2.29	9.47E-03	7250	GRHL3	1.41	4.52E-02	7318	HES5	5.56	1.09E-04
7183	GMIP	1.71	5.35E-04	7251	GRIA1	5.98	9.67E-04	7319	HES7	2.34	1.57E-02
7184	GNA14	4.31	8.12E-05	7252	GRIA2	1.50	2.90E-02	7320	HEY2	4.75	1.64E-02
7185	GNAT1	3.88	2.25E-03	7253	GRIA3	2.93	6.73E-03	7321	HGF	2.94	2.13E-03
7186	GNB4	1.47	6.15E-03	7254	GRI4A	4.66	1.05E-03	7322	HGFAC	1.63	5.88E-02
7187	GNG2	1.27	4.19E-02	7255	GRID1	3.62	3.48E-03	7323	HHAT	6.23	1.27E-03
7188	GNOT1	3.06	6.17E-04	7256	GRID2	5.01	8.98E-04	7324	HHATL	3.04	2.55E-03
7189	GNRHR	2.05	3.59E-02	7257	GRID2IP	2.89	9.50E-03	7325	HHEX	3.30	7.92E-03
7190	GOLPH3L	5.15	1.18E-03	7258	GRIFFIN	5.22	7.43E-03	7326	HHIP	3.52	9.84E-03
7191	GP1BA	5.04	9.74E-04	7259	GRIK1	2.16	1.28E-02	7327	HHIPL1	6.50	2.28E-03
7192	GP1BB	4.19	6.89E-03	7260	GRIK2	7.03	2.48E-04	7328	HHIPL2	3.13	7.20E-03
7193	GP9	4.06	3.50E-03	7261	GRIK3	3.88	1.22E-02	7329	HIC2	3.29	1.18E-02
7194	GPATCH2	2.41	5.13E-04	7262	GRIK4	1.98	8.30E-02	7330	HIF1AN	2.53	1.04E-02
7195	GPC3	2.21	4.60E-03	7263	GRIN1	3.48	2.81E-03	7331	HIPK1	1.47	1.69E-02
7196	GPC5	5.27	1.58E-03	7264	GRIN3A	3.69	6.61E-03	7332	HIRA	1.17	1.31E-02
7197	GPER	5.04	3.41E-03	7265	GRIP1	2.28	3.41E-03	7333	HK2	2.50	1.73E-03
7198	GPHB5	4.56	1.09E-02	7266	GRM1	4.08	7.29E-03	7334	HKDC1	2.59	1.15E-02
7199	GPR1	2.15	1.11E-03	7267	GRM2	6.47	5.21E-04	7335	HMG2A	2.17	8.30E-04
7200	GPR112	2.68	1.40E-03	7268	GRM5	3.16	6.85E-03	7336	HMOX1	1.45	2.48E-02
7201	GPR116	2.85	2.35E-03	7269	GRM7	5.00	5.75E-05	7337	HMX1	8.72	7.91E-03
7202	GPR119	6.87	2.96E-04	7270	GRPR	7.10	2.07E-04	7338	HMX3	2.59	2.99E-03
7203	GPR12	1.77	4.36E-02	7271	GRRP1	1.10	1.46E-02	7339	HN1L	2.06	3.40E-02
7204	GPR126	1.83	1.68E-02	7272	GRXCR1	6.69	1.19E-04	7340	HNF1A	3.09	4.81E-05
7205	GPR137C	2.47	1.57E-03	7273	GRXCR2	2.43	3.24E-03	7341	HNF1B	3.73	3.25E-04
7206	GPR139	3.17	1.62E-03	7274	GSC	4.62	6.67E-03	7342	HNF4A	5.21	6.37E-03
7207	GPR141	5.89	8.97E-05	7275	GSDMA	1.40	2.49E-02	7343	HNF4beta	4.49	4.36E-03

7344	HNF4G	4.03	3.19E-02	7412	IBSP	4.73	1.71E-03	7480	INSR	1.27	1.66E-02
7345	HNNMT	2.45	1.60E-03	7413	ICOS	2.33	2.91E-03	7481	INTS3	3.33	1.45E-02
7346	HNRNPA0	1.19	2.71E-02	7414	ICOSLG	2.41	1.18E-03	7482	IPP	2.23	1.92E-03
7347	HOGA1	6.13	1.03E-03	7415	ID3	1.87	2.86E-02	7483	IQCJ	3.40	3.47E-03
7348	HOMER2	4.59	5.10E-03	7416	IFI30	3.61	2.12E-01	7484	IQGAP2	4.68	1.94E-03
7349	HOXA1	4.36	8.79E-04	7417	IFITM10	5.14	8.88E-03	7485	IQSEC1	2.73	1.30E-02
7350	HOXA10	4.18	2.09E-03	7418	IFNA3	5.42	1.22E-03	7486	IQSEC3	3.92	2.87E-03
7351	HOXA11	7.18	1.67E-03	7419	IFNAR1	1.84	5.53E-03	7487	IRF4	1.28	1.28E-02
7352	HOXA13	5.08	1.41E-03	7420	IFNAR2	2.97	8.25E-03	7488	IRF5	2.28	5.15E-04
7353	HOXA2	3.73	4.71E-03	7421	IFNB	5.97	5.14E-04	7489	IRF8	2.06	9.00E-03
7354	HOXA3	2.96	4.52E-03	7422	IFNG	3.50	4.18E-04	7490	IRS1	2.85	8.55E-02
7355	HOXA4	2.32	4.71E-03	7423	IGDCC4	3.78	9.40E-04	7491	IRS2	1.95	6.76E-03
7356	HOXA5	3.34	1.44E-02	7424	IGF1	5.02	2.01E-02	7492	IRX1	3.80	5.26E-04
7357	HOXA6	2.24	1.00E-03	7425	IGF2BP1	3.44	2.12E-02	7493	IRX2	4.90	8.72E-05
7358	HOXA9	4.36	6.38E-03	7426	IGFALS	5.86	3.56E-04	7494	IRX5	4.32	7.30E-03
7359	HOXB1	4.11	3.71E-04	7427	IGFBP1	3.92	8.52E-03	7495	IRX6	6.11	1.65E-03
7360	HOXB13	4.70	1.67E-03	7428	IGFN1	1.18	1.51E-02	7496	ISL1	7.17	8.18E-03
7361	HOXB3	2.54	6.35E-03	7429	IGJ	1.78	1.05E-01	7497	ISLR	3.45	4.49E-03
7362	HOXB4	3.95	7.28E-04	7430	IGSF1	1.50	3.40E-03	7498	ISLR2	1.83	9.46E-03
7363	HOXB5	2.69	9.46E-03	7431	IGSF3	3.40	1.13E-02	7499	ISM2	5.46	2.40E-02
7364	HOXB7	2.63	1.49E-03	7432	IGSF5	3.36	2.13E-02	7500	ITGA11	1.43	4.92E-02
7365	HOXB8	2.52	8.63E-03	7433	IGSF6	2.42	1.91E-02	7501	ITGA4	3.58	1.03E-02
7366	HOXB9	6.62	2.84E-04	7434	IGSF9	1.59	1.59E-02	7502	ITGA5	4.19	7.54E-02
7367	HOXC10	5.96	1.40E-05	7435	IGSF9B	4.18	6.23E-04	7503	ITGA8	2.81	5.52E-02
7368	HOXC11	1.65	2.51E-02	7436	IHH	3.84	2.14E-03	7504	ITGA9	1.43	1.56E-02
7369	HOXC12	8.25	1.59E-03	7437	IKBKE	3.34	1.41E-02	7505	ITGB3	2.74	2.09E-02
7370	HOXC6	2.31	7.35E-04	7438	IKZF3	4.67	5.74E-04	7506	ITGB6	5.20	7.96E-06
7371	HOXC8	4.13	2.21E-03	7439	IL10	6.15	5.47E-03	7507	ITGBL1	2.02	3.09E-02
7372	HOXC9	5.31	2.86E-03	7440	IL10RA	5.66	4.18E-03	7508	ITIH2	1.39	6.58E-03
7373	HOXD1	2.59	5.15E-03	7441	IL12A	3.29	1.12E-02	7509	ITK	3.75	7.51E-03
7374	HOXD12	6.16	2.71E-04	7442	IL12B	2.35	8.96E-02	7510	ITM2C	1.14	3.61E-01
7375	HOXD13	4.16	2.58E-03	7443	IL13	3.59	8.10E-04	7511	ITPKA	1.61	9.64E-03
7376	HOXD3	1.72	7.61E-03	7444	IL13RA1	3.38	4.56E-03	7512	ITPR1	1.31	6.02E-03
7377	HOXD4	1.97	2.04E-02	7445	IL15RA	2.28	2.74E-03	7513	ITPRIP	4.88	4.64E-03
7378	HOXD8	3.47	1.49E-02	7446	IL17F	3.39	2.55E-03	7514	IYD	5.62	5.38E-04
7379	HPCA	5.13	3.56E-03	7447	IL17REL	5.22	1.75E-03	7515	J00914	1.25	1.15E-02
7380	HPDL	2.53	5.50E-02	7448	IL18R1	1.38	5.57E-03	7516	JAG2	1.40	1.47E-02
7381	HPGD	5.36	9.14E-04	7449	IL18RAP	3.23	1.73E-02	7517	JAK2	2.89	1.82E-04
7382	HP51	3.17	8.24E-03	7450	IL1B	3.20	5.18E-03	7518	JAKMIP1	3.36	5.29E-03
7383	HP5E	3.26	2.88E-02	7451	IL1RAPL1	5.49	8.96E-04	7519	JDP2	1.69	3.40E-03
7384	HP5E2	3.52	4.22E-03	7452	IL2	4.39	1.83E-04	7520	JF936801	7.77	2.64E-03
7385	HRH2	5.65	3.87E-03	7453	IL20RA	3.92	2.50E-03	7521	JQ780447	6.09	6.11E-03
7386	HRH3	5.39	9.31E-03	7454	IL21	4.49	2.65E-04	7522	JQ927550	5.78	3.00E-03
7387	HRH4	2.81	1.02E-03	7455	IL21R	2.23	3.84E-04	7523	JQ927551	10.41	7.27E-05
7388	HS3ST4	5.17	1.91E-03	7456	IL22	1.66	5.25E-03	7524	JX483813	3.75	3.78E-02
7389	HS3ST5	2.00	1.09E-02	7457	IL22RA1	3.88	7.58E-03	7525	K01481	2.97	4.86E-03
7390	HS3ST6	2.90	6.01E-03	7458	IL22RA2	3.90	6.79E-03	7526	K123	4.50	1.85E-03
7391	HSD11B1	6.47	5.80E-03	7459	IL28B	6.62	5.09E-03	7527	KAL1	4.42	1.31E-03
7392	HSD17B1	4.58	9.02E-04	7460	IL2RA	5.80	1.89E-03	7528	KALRN	2.80	1.72E-02
7393	HSD3B2	1.86	1.61E-01	7461	IL3	5.64	5.08E-05	7529	KANK4	2.81	4.24E-05
7394	HSD3B7	5.05	7.61E-04	7462	IL36RN	3.23	8.32E-03	7530	KBP	1.92	8.64E-03
7395	HSF4	1.37	6.82E-03	7463	IL4	5.66	3.00E-04	7531	KBTBD11	2.70	8.91E-03
7396	HSPA12A	2.95	1.83E-03	7464	IL5	4.18	4.93E-03	7532	KBTBD12	4.70	8.18E-03
7397	HSPB3	3.44	1.48E-03	7465	IL5RA	2.18	3.54E-04	7533	KBTBD13	1.83	1.68E-02
7398	HSPB7	2.67	3.79E-03	7466	IL6	5.21	4.82E-05	7534	KBTBD5	3.65	2.88E-03
7399	HSPG2	3.04	8.71E-04	7467	IL6RA	1.86	4.12E-03	7535	KCNA1	2.54	2.13E-03
7400	HTR1B	3.34	1.94E-02	7468	IL7	1.87	2.53E-03	7536	KCNA2	3.86	1.40E-02
7401	HTR1E	4.88	3.36E-04	7469	IL7R	3.47	2.86E-03	7537	KCNA3	3.20	3.41E-03
7402	HTR1F	3.14	5.56E-03	7470	IL8	4.47	1.47E-03	7538	KCNA4	4.99	1.74E-03
7403	HTR2A	4.81	1.13E-04	7471	IL9R	6.52	6.60E-03	7539	KCNA5	3.33	3.64E-03
7404	HTR3A	3.99	1.86E-03	7472	IMP3	2.86	1.78E-01	7540	KCNAB2	3.03	5.83E-03
7405	HTR4	3.99	2.05E-03	7473	IMPG1	4.98	5.33E-04	7541	KCNB1	4.68	1.25E-02
7406	HTR5A	4.38	1.14E-02	7474	INDOL1	5.38	3.32E-03	7542	KCNC1	6.51	9.53E-04
7407	HTR6	4.08	8.37E-04	7475	INHBA	3.67	1.09E-02	7543	KCNC4	4.69	4.74E-03
7408	HTR7	3.68	3.90E-03	7476	INPP5A	1.14	9.74E-03	7544	KCND2	3.66	1.26E-02
7409	HYAL2	2.43	6.64E-03	7477	INPP5J	1.27	2.43E-02	7545	KCND3	2.71	7.02E-04
7410	HYALP1	3.43	1.58E-03	7478	INS	2.96	2.03E-03	7546	KCNE1	6.20	2.70E-03
7411	IAPP	1.79	9.74E-03	7479	INSC	1.76	8.89E-02	7547	KCNE2	3.71	1.95E-03

7548	KCNE3	4.34	1.32E-03	7616	KLHDC8A	6.40	8.08E-05	7684	LCP2	1.32	7.93E-03
7549	KCNF4	5.34	2.68E-04	7617	KLHL12	1.15	7.00E-02	7685	LDB1	2.62	3.96E-03
7550	KCNF1	3.86	4.79E-03	7618	KLHL17	5.33	4.68E-04	7686	LDLRAD1	1.66	3.61E-02
7551	KCNG1	3.08	7.53E-03	7619	KLHL25	4.78	1.43E-03	7687	LEAP2	3.38	4.22E-03
7552	KCNG3	4.55	4.77E-03	7620	KLHL29	1.37	2.73E-03	7688	LECT1	4.19	2.56E-03
7553	KCNH4	6.94	2.07E-05	7621	KLHL30	3.60	8.37E-04	7689	LECT2	2.95	1.01E-03
7554	KCNH8	5.93	2.69E-05	7622	KLHL31	1.14	9.46E-03	7690	LEF1	1.75	3.64E-04
7555	KCNIP2	4.92	7.43E-03	7623	KLHL34	5.46	2.04E-04	7691	LEPR	2.05	1.26E-03
7556	KCNJ1	5.16	3.16E-04	7624	KLHL35	4.18	7.58E-04	7692	LFNG	3.02	5.47E-02
7557	KCNJ11	4.25	4.78E-03	7625	KLHL38	5.12	1.35E-03	7693	LGALS3	1.47	5.04E-03
7558	KCNJ15	5.61	4.36E-03	7626	KLHL4	2.95	3.37E-03	7694	LGR6	3.98	2.59E-03
7559	KCNJ16	4.09	2.30E-04	7627	KMO	2.57	1.90E-03	7695	LGSN	4.07	8.96E-04
7560	KCNJ2	5.78	1.46E-02	7628	KNG1	3.60	1.15E-04	7696	LHFPL2	2.36	1.45E-04
7561	KCNJ3	3.26	1.59E-04	7629	KPNA7	4.15	7.99E-04	7697	LHX1	2.22	5.13E-02
7562	KCNJ4	5.64	7.41E-05	7630	KREMEN1	3.84	1.16E-03	7698	LHX3	4.42	3.57E-03
7563	KCNJ6	5.69	2.57E-03	7631	KRT12	5.50	5.79E-04	7699	LHX4	5.17	1.33E-03
7564	KCNH8	1.88	1.57E-02	7632	KRT19	2.59	7.81E-04	7700	LHX5	4.76	1.07E-02
7565	KCNK12	1.33	1.29E-02	7633	KRT20	2.13	5.37E-03	7701	LHX6	7.06	6.15E-03
7566	KCNK13	3.72	5.24E-04	7634	KRT5	3.78	1.68E-03	7702	LHX8	1.79	3.18E-03
7567	KCNK15	6.30	9.66E-04	7635	KRT75	3.56	1.69E-05	7703	LHX9	2.82	1.92E-03
7568	KCNK17	3.31	1.38E-02	7636	KRT8	4.48	1.56E-02	7704	LIF	6.80	1.26E-03
7569	KCNK2	6.30	5.86E-03	7637	KRTAP10-4	5.05	4.98E-03	7705	LIG1	1.15	3.34E-02
7570	KCNMA1	4.48	2.19E-03	7638	KRTCAP3	2.63	7.32E-04	7706	LIMD2	4.54	4.28E-03
7571	KCNMB2	4.20	1.70E-04	7639	KY	3.45	1.59E-03	7707	LIMS2	2.22	2.40E-02
7572	KCNQ1	3.78	6.63E-04	7640	L12565	3.52	1.41E-03	7708	LIN28A	2.58	9.26E-03
7573	KCNQ2	4.29	4.12E-03	7641	L1CAM	3.11	1.07E-03	7709	LIN7A	1.91	3.73E-02
7574	KCNQ4	3.21	9.89E-04	7642	L3MBTL1	5.09	5.96E-03	7710	LINGO2	3.08	6.57E-03
7575	KCNQ5	2.04	2.16E-03	7643	L48877	3.01	2.22E-04	7711	LINGO3	5.76	2.57E-03
7576	KCNRG	1.52	2.54E-03	7644	L48878	3.71	1.29E-02	7712	LIX1	3.86	2.23E-03
7577	KCNS1	5.52	8.18E-04	7645	L48880	4.71	1.40E-03	7713	LL	5.43	5.75E-03
7578	KCNS2	4.81	2.91E-03	7646	L48881	5.56	5.06E-05	7714	LMCD1	3.27	1.60E-02
7579	KCNT1	2.65	2.36E-03	7647	L48884	6.84	5.65E-03	7715	LMNA	1.83	3.21E-02
7580	KCTD12	1.99	2.18E-03	7648	L48885	3.93	2.62E-03	7716	LMNB1	2.75	1.96E-03
7581	KCTD17	3.57	8.16E-05	7649	L48886	4.16	8.01E-03	7717	LMO3	1.18	9.63E-02
7582	KCTD21	5.08	7.27E-03	7650	L48890	3.29	9.35E-03	7718	LMOD2	2.25	4.92E-03
7583	KCTD4	3.31	1.59E-03	7651	L48892	4.66	2.61E-03	7719	LMOD3	5.94	1.26E-04
7584	KDEL3	1.66	1.53E-02	7652	L48893	3.76	1.85E-02	7720	LMX1A	1.46	7.29E-02
7585	KDM1B	2.50	3.39E-03	7653	L48895	1.77	2.30E-03	7721	LNPEP	2.09	4.38E-03
7586	KDM4B	3.51	3.87E-03	7654	L48898	4.41	2.18E-02	7722	LNK1	2.45	3.90E-03
7587	KERA	5.44	6.53E-04	7655	L48899	4.20	2.96E-04	7723	LNK2	2.74	1.50E-03
7588	KIAA0195	2.24	5.97E-03	7656	L48900	6.62	3.71E-03	7724	LOC100857153	6.41	8.37E-04
7589	KIAA0319	1.89	2.03E-02	7657	L48902	1.58	6.33E-03	7725	LOC100857386	5.36	2.81E-03
7590	KIAA0889	2.91	3.12E-03	7658	L48903	10.37	1.12E-03	7726	LOC100857399	6.15	1.74E-04
7591	KIAA1024	3.37	1.27E-04	7659	L48908	4.33	5.78E-03	7727	LOC100857586	1.54	1.01E-02
7592	KIAA1045	2.10	1.42E-02	7660	L48909	4.28	5.23E-03	7728	LOC100857703	1.46	2.85E-03
7593	KIAA1147	3.43	1.72E-03	7661	L48912	4.32	4.10E-03	7729	LOC100858295	1.80	7.94E-03
7594	KIAA1161	3.92	1.29E-04	7662	L48914	1.93	3.63E-03	7730	LOC100858345	5.70	9.54E-05
7595	KIAA1211	3.72	1.21E-02	7663	L48916	4.59	1.44E-02	7731	LOC100858701	4.38	1.17E-03
7596	KIAA1217	1.06	2.08E-03	7664	L48917	2.75	8.60E-03	7732	LOC100858771	2.01	8.29E-02
7597	KIAA1328	2.33	2.44E-02	7665	L48919	4.85	1.26E-03	7733	LOC100858837	6.39	1.20E-03
7598	KIAA1409	2.37	1.34E-04	7666	L48923	4.12	3.17E-04	7734	LOC100858914	3.53	1.74E-03
7599	KIAA1598	1.66	3.33E-04	7667	L48924	5.92	1.85E-04	7735	LOC100858942	5.23	3.05E-03
7600	KIAA1841	1.70	3.36E-03	7668	LACC1	1.42	3.36E-01	7736	LOC100859006	2.86	4.17E-04
7601	KIAA1919	3.23	2.20E-03	7669	LAD1	1.98	1.82E-02	7737	LOC100859029	4.89	2.81E-03
7602	KIAA1958	1.15	1.64E-02	7670	LAG3	1.43	8.93E-04	7738	LOC100859072	9.65	8.41E-04
7603	KIAA2022	2.47	1.90E-02	7671	LAMA1	3.32	1.88E-05	7739	LOC100859161	2.06	2.21E-02
7604	KIF21B	5.48	1.16E-04	7672	LAMC2	5.89	2.42E-04	7740	LOC100859492	1.50	2.83E-02
7605	KIF26A	3.13	1.18E-03	7673	LAMC3	2.57	5.39E-03	7741	LOC100859665	2.44	1.70E-02
7606	KIFC3	3.56	1.09E-02	7674	LAMP3	2.71	4.28E-02	7742	LOC100859696	2.21	1.09E-02
7607	KITLG	2.33	7.31E-03	7675	LANCL3	1.59	6.91E-03	7743	LOC100859709	3.95	3.63E-03
7608	KK34	4.25	5.76E-03	7676	LAPTM4B	2.99	7.18E-03	7744	LOC100859811	4.40	3.32E-04
7609	KL	3.71	4.92E-05	7677	LARGE	2.48	1.08E-03	7745	LOC100859887	1.31	4.95E-02
7610	KLF15	1.81	2.39E-04	7678	LAT2	3.86	9.80E-03	7746	LOC100859897	3.26	2.19E-02
7611	KLF4	4.36	1.67E-03	7679	LBFABP	2.21	4.10E-03	7747	LOC378902	2.37	9.97E-03
7612	KLF6	1.63	4.16E-03	7680	LBX1	4.95	1.58E-02	7748	LOC386576	2.79	3.18E-02
7613	KLF7	1.41	2.70E-04	7681	LCK	4.46	5.84E-04	7749	LOC395095	6.56	1.13E-02
7614	KLHDC10	2.91	1.57E-02	7682	LCN15	3.46	2.15E-03	7750	LOC395100	1.07	1.87E-02
7615	KLHDC5	1.26	3.86E-03	7683	LCOR	1.37	1.56E-02	7751	LOC395160	7.41	1.96E-03

7752	LOC395325	4.10	1.66E-02	7820	LOC417848	1.67	1.52E-03	7888	LOC421270	4.86	1.85E-04
7753	LOC395379	2.94	3.91E-03	7821	LOC417937	2.94	1.64E-05	7889	LOC421285	6.16	3.80E-04
7754	LOC395628	2.32	1.88E-03	7822	LOC417962	1.22	1.92E-02	7890	LOC421296	2.10	1.41E-02
7755	LOC395772	2.77	3.87E-04	7823	LOC418020	1.14	1.19E-01	7891	LOC421394	4.98	9.28E-03
7756	LOC395884	1.07	6.28E-03	7824	LOC418109	3.76	5.19E-03	7892	LOC421441	3.12	2.22E-03
7757	LOC395892	2.08	3.59E-03	7825	LOC418168	3.91	9.88E-03	7893	LOC421512	4.04	2.36E-03
7758	LOC395927	2.12	4.05E-02	7826	LOC418298	2.57	1.60E-03	7894	LOC421515	2.09	6.18E-03
7759	LOC395933	5.00	7.08E-03	7827	LOC418390	1.34	2.84E-02	7895	LOC421560	3.48	1.59E-03
7760	LOC396098	3.11	1.14E-02	7828	LOC418414	3.64	6.24E-04	7896	LOC421675	4.26	1.23E-04
7761	LOC396151	3.70	3.47E-03	7829	LOC418416	6.04	1.22E-04	7897	LOC421690	1.66	5.22E-02
7762	LOC396318	3.84	8.28E-02	7830	LOC418421	5.97	5.75E-03	7898	LOC421712	4.00	3.06E-03
7763	LOC396365	3.91	1.05E-01	7831	LOC418423	5.46	1.78E-03	7899	LOC421740	5.18	8.75E-05
7764	LOC396419	6.03	1.66E-03	7832	LOC418424	2.52	3.14E-03	7900	LOC421956	4.14	1.17E-03
7765	LOC396443	3.61	1.39E-03	7833	LOC418465	6.84	4.60E-05	7901	LOC421965	4.19	8.60E-04
7766	LOC396454	4.70	2.05E-03	7834	LOC418543	1.19	6.33E-02	7902	LOC421982	1.55	1.85E-02
7767	LOC396520	2.51	1.06E-02	7835	LOC418554	4.39	1.13E-03	7903	LOC421996	3.70	7.40E-03
7768	LOC396525	1.83	1.67E-03	7836	LOC418707	4.00	8.36E-04	7904	LOC422039	5.58	1.09E-03
7769	LOC408038	2.75	1.60E-04	7837	LOC418771	4.26	5.15E-03	7905	LOC422046	4.85	1.54E-05
7770	LOC415312	3.43	2.06E-02	7838	LOC419016	3.93	3.41E-03	7906	LOC422075	2.29	6.33E-04
7771	LOC415314	5.91	3.57E-03	7839	LOC419032	2.41	4.52E-03	7907	LOC422147	4.40	1.77E-03
7772	LOC415324	2.11	1.17E-03	7840	LOC419065	4.33	2.39E-04	7908	LOC422150	3.38	1.10E-03
7773	LOC415325	5.48	1.99E-03	7841	LOC419113	4.68	5.46E-03	7909	LOC422171	3.55	6.35E-04
7774	LOC415414	4.84	8.29E-04	7842	LOC419144	6.33	5.33E-04	7910	LOC422179	2.07	7.43E-03
7775	LOC415418	3.61	1.16E-03	7843	LOC419182	1.68	5.61E-02	7911	LOC422264	3.05	6.80E-02
7776	LOC415472	3.31	5.57E-04	7844	LOC419250	3.39	1.06E-02	7912	LOC422276	5.07	2.56E-03
7777	LOC415554	1.36	2.50E-02	7845	LOC419328	2.70	5.96E-03	7913	LOC422284	2.14	1.40E-02
7778	LOC415661	2.98	2.93E-04	7846	LOC419333	4.31	8.95E-03	7914	LOC422298	1.89	6.04E-03
7779	LOC415671	2.48	4.61E-03	7847	LOC419335	6.05	9.06E-04	7915	LOC422307	6.68	4.11E-04
7780	LOC415713	4.40	2.58E-04	7848	LOC419389	2.56	7.44E-03	7916	LOC422308	2.05	1.71E-02
7781	LOC415836	3.83	6.03E-03	7849	LOC419425	4.49	3.78E-05	7917	LOC422319	1.96	1.38E-02
7782	LOC415844	2.82	3.58E-03	7850	LOC419429	1.54	1.35E-02	7918	LOC422323	3.14	5.99E-03
7783	LOC415852	3.33	5.68E-03	7851	LOC419540	1.74	1.08E-02	7919	LOC422340	3.84	5.47E-03
7784	LOC415922	2.08	5.14E-03	7852	LOC419677	4.62	2.38E-03	7920	LOC422393	6.46	3.44E-05
7785	LOC415932	3.71	5.17E-02	7853	LOC419726	3.28	2.61E-03	7921	LOC422511	3.49	2.62E-04
7786	LOC416053	2.27	2.34E-02	7854	LOC419741	2.62	5.92E-03	7922	LOC422643	2.81	1.14E-02
7787	LOC416082	2.16	4.73E-03	7855	LOC419749	3.02	1.88E-03	7923	LOC422654	1.49	7.23E-03
7788	LOC416086	3.95	3.04E-04	7856	LOC419833	4.37	4.27E-03	7924	LOC422725	3.60	2.34E-03
7789	LOC416090	6.89	8.24E-04	7857	LOC419834	4.53	1.18E-03	7925	LOC422737	9.30	1.81E-03
7790	LOC416106	6.02	4.07E-03	7858	LOC419840	1.66	7.63E-03	7926	LOC422811	4.46	3.56E-04
7791	LOC416146	7.14	3.16E-03	7859	LOC419842	5.00	6.67E-04	7927	LOC422853	4.25	1.15E-04
7792	LOC416169	3.65	3.16E-03	7860	LOC419888	2.41	1.67E-04	7928	LOC422872	4.63	6.40E-05
7793	LOC416178	1.20	3.09E-02	7861	LOC420039	5.58	3.33E-04	7929	LOC422924	3.92	7.06E-03
7794	LOC416179	3.93	3.14E-03	7862	LOC420043	4.28	4.05E-03	7930	LOC422926	1.40	6.58E-02
7795	LOC416197	4.26	3.25E-05	7863	LOC420052	6.57	1.09E-03	7931	LOC422929	2.78	2.27E-03
7796	LOC416292	1.36	5.67E-04	7864	LOC420093	5.71	1.88E-03	7932	LOC423247	1.44	1.35E-03
7797	LOC416541	2.09	1.87E-03	7865	LOC420107	2.46	2.19E-03	7933	LOC423393	8.50	3.32E-03
7798	LOC416629	1.27	1.22E-02	7866	LOC420111	2.99	2.10E-03	7934	LOC423478	3.18	9.24E-03
7799	LOC416633	2.44	1.53E-02	7867	LOC420156	1.57	3.13E-03	7935	LOC423523	3.13	1.57E-02
7800	LOC416655	2.72	9.12E-02	7868	LOC420160	2.03	2.69E-02	7936	LOC423605	4.38	1.29E-02
7801	LOC416752	5.24	5.19E-03	7869	LOC420300	4.52	6.50E-04	7937	LOC423629	1.90	3.36E-02
7802	LOC416755	1.77	5.34E-03	7870	LOC420301	4.30	5.79E-05	7938	LOC423653	2.04	1.88E-02
7803	LOC416923	1.82	3.78E-03	7871	LOC420352	2.63	1.62E-02	7939	LOC423719	4.00	1.98E-03
7804	LOC416927	4.09	1.23E-03	7872	LOC420381	3.20	6.24E-03	7940	LOC423731	2.02	7.33E-02
7805	LOC416935	4.09	1.06E-03	7873	LOC420403	4.62	5.75E-04	7941	LOC423752	2.79	3.33E-05
7806	LOC416959	3.94	2.44E-02	7874	LOC420543	2.43	7.17E-04	7942	LOC423822	3.96	2.76E-03
7807	LOC417013	1.33	2.29E-03	7875	LOC420609	1.71	7.36E-02	7943	LOC423891	2.83	2.60E-03
7808	LOC417028	6.50	1.28E-04	7876	LOC420770	2.41	8.02E-04	7944	LOC423904	8.83	1.02E-03
7809	LOC417094	2.42	1.87E-02	7877	LOC420789	4.05	4.47E-04	7945	LOC423919	4.03	3.35E-03
7810	LOC417113	1.68	6.17E-03	7878	LOC421070	1.39	1.30E-02	7946	LOC423922	6.22	3.92E-03
7811	LOC417130	4.44	6.70E-03	7879	LOC421081	6.50	1.22E-04	7947	LOC423938	4.21	9.75E-04
7812	LOC417142	3.12	9.16E-04	7880	LOC421091	6.09	2.72E-04	7948	LOC423943	2.94	1.60E-03
7813	LOC417192	3.53	1.10E-03	7881	LOC421118	2.00	5.29E-02	7949	LOC424007	2.62	1.62E-03
7814	LOC417291	4.45	1.06E-03	7882	LOC421123	5.02	3.72E-03	7950	LOC424033	1.41	2.39E-03
7815	LOC417372	5.82	2.56E-03	7883	LOC421229	4.01	1.04E-04	7951	LOC424098	3.41	2.81E-04
7816	LOC417447	1.72	1.60E-02	7884	LOC421235	2.12	7.43E-03	7952	LOC424199	4.32	1.37E-02
7817	LOC417459	2.73	5.58E-03	7885	LOC421238	4.34	2.82E-03	7953	LOC424261	1.15	6.50E-03
7818	LOC417507	1.64	1.97E-02	7886	LOC421241	1.45	1.09E-02	7954	LOC424265	2.16	1.12E-03
7819	LOC417537	4.12	1.13E-02	7887	LOC421253	1.59	2.92E-02	7955	LOC424334	5.07	1.34E-03

7956	LOC424428	3.35	1.07E-02	8024	LOC427977	1.98	7.40E-03	8092	LOC430475	8.35	1.65E-03
7957	LOC424473	1.74	4.92E-02	8025	LOC428008	4.02	1.96E-03	8093	LOC430520	3.66	7.90E-03
7958	LOC424511	4.14	7.17E-04	8026	LOC428024	5.12	3.31E-03	8094	LOC430594	8.22	1.83E-04
7959	LOC424523	5.24	5.31E-03	8027	LOC428073	4.19	1.83E-02	8095	LOC430596	8.63	2.61E-06
7960	LOC424588	2.96	6.68E-04	8028	LOC428094	3.40	3.16E-03	8096	LOC430604	8.12	6.53E-04
7961	LOC424593	6.92	4.71E-04	8029	LOC428111	1.20	3.59E-02	8097	LOC430610	4.30	1.62E-03
7962	LOC424620	3.24	3.85E-02	8030	LOC428118	6.55	3.48E-03	8098	LOC430658	7.60	1.45E-04
7963	LOC424679	5.46	1.96E-02	8031	LOC428119	4.95	3.05E-03	8099	LOC430661	6.30	1.91E-04
7964	LOC424892	2.34	2.78E-02	8032	LOC428144	4.41	7.18E-05	8100	LOC430677	7.84	5.55E-04
7965	LOC424917	1.34	1.55E-02	8033	LOC428183	1.78	6.48E-02	8101	LOC430730	9.92	1.69E-03
7966	LOC424919	1.22	1.20E-02	8034	LOC428212	5.31	3.19E-03	8102	LOC430735	3.46	3.91E-03
7967	LOC424944	4.88	6.35E-03	8035	LOC428244	4.32	6.99E-03	8103	LOC430778	8.13	2.11E-03
7968	LOC424998	5.80	5.14E-04	8036	LOC428258	1.75	2.33E-03	8104	LOC430792	8.24	6.31E-05
7969	LOC425076	7.71	3.15E-03	8037	LOC428278	3.24	4.83E-03	8105	LOC430804	9.40	3.12E-04
7970	LOC425113	3.75	8.19E-03	8038	LOC428289	4.34	1.60E-02	8106	LOC430853	9.19	2.69E-03
7971	LOC425137	1.56	3.90E-02	8039	LOC428290	7.84	1.25E-04	8107	LOC430861	8.24	9.25E-04
7972	LOC425224	2.06	9.65E-03	8040	LOC428291	7.06	7.41E-04	8108	LOC430862	4.85	3.23E-03
7973	LOC425238	5.13	4.33E-03	8041	LOC428322	6.57	2.14E-05	8109	LOC430987	6.75	3.44E-03
7974	LOC425261	3.64	3.47E-04	8042	LOC428323	2.45	1.49E-02	8110	LOC431045	3.52	1.04E-01
7975	LOC425299	2.71	3.43E-03	8043	LOC428383	5.73	1.54E-02	8111	LOC431090	4.24	1.81E-03
7976	LOC425347	2.41	4.31E-03	8044	LOC428538	3.10	4.64E-03	8112	LOC431147	5.87	1.69E-04
7977	LOC425462	3.79	9.87E-04	8045	LOC428541	1.27	4.18E-02	8113	LOC431205	6.71	1.21E-03
7978	LOC425534	3.65	2.77E-03	8046	LOC428618	1.21	2.78E-03	8114	LOC431250	5.08	2.51E-04
7979	LOC425540	3.26	3.18E-02	8047	LOC428693	5.10	8.85E-05	8115	LOC431251	3.65	2.80E-04
7980	LOC425562	2.31	9.47E-03	8048	LOC428714	3.75	1.19E-03	8116	LOC431270	8.89	4.00E-03
7981	LOC425725	3.02	5.11E-03	8049	LOC428720	2.88	1.36E-02	8117	LOC431320	9.37	2.10E-03
7982	LOC425742	4.78	1.10E-04	8050	LOC428812	3.02	1.37E-03	8118	LOC431321	5.53	4.22E-04
7983	LOC425757	5.26	2.99E-04	8051	LOC428815	6.02	5.77E-04	8119	LOC431323	3.62	8.16E-03
7984	LOC425795	3.16	3.10E-03	8052	LOC428824	1.70	6.75E-03	8120	LOC431324	7.61	6.95E-04
7985	LOC426037	7.40	8.86E-05	8053	LOC428827	6.64	1.14E-03	8121	LOC431350	7.64	5.42E-04
7986	LOC426062	8.36	3.18E-03	8054	LOC428867	4.92	3.84E-03	8122	LOC431422	8.64	5.12E-04
7987	LOC426070	5.25	3.80E-03	8055	LOC428949	6.57	8.38E-04	8123	LOC431525	5.87	2.30E-03
7988	LOC426093	3.28	2.24E-02	8056	LOC428958	5.69	4.15E-03	8124	LOC431615	4.18	6.90E-05
7989	LOC426218	4.48	9.79E-05	8057	LOC428961	3.31	7.43E-04	8125	LOC431653	4.91	9.88E-03
7990	LOC426220	2.89	1.90E-02	8058	LOC429032	4.91	7.58E-05	8126	LOC431656	2.42	8.41E-03
7991	LOC426229	8.74	1.75E-03	8059	LOC429098	6.48	5.76E-03	8127	LOC431660	1.85	5.62E-03
7992	LOC426324	2.09	4.57E-03	8060	LOC429152	5.37	8.98E-04	8128	LOC693258	4.06	2.68E-03
7993	LOC426330	7.91	1.63E-03	8061	LOC429153	4.22	1.31E-02	8129	LOC768350	5.56	8.03E-02
7994	LOC426456	4.66	1.28E-03	8062	LOC429244	8.85	2.82E-04	8130	LOC768484	5.92	5.52E-04
7995	LOC426640	4.42	3.64E-04	8063	LOC429266	5.32	5.55E-03	8131	LOC768491	3.52	3.03E-03
7996	LOC426731	4.58	5.21E-03	8064	LOC429288	8.45	3.39E-03	8132	LOC768535	3.89	1.43E-03
7997	LOC426743	4.21	1.50E-03	8065	LOC429329	7.33	1.46E-04	8133	LOC768537	3.98	5.58E-03
7998	LOC426821	5.18	3.79E-03	8066	LOC429348	2.69	3.45E-03	8134	LOC768596	5.09	3.11E-03
7999	LOC426834	6.45	8.88E-05	8067	LOC429356	8.49	6.12E-04	8135	LOC768634	1.58	6.31E-03
8000	LOC426881	5.33	3.70E-04	8068	LOC429395	8.41	2.16E-04	8136	LOC768665	4.96	4.00E-03
8001	LOC426897	2.40	9.06E-03	8069	LOC429440	3.27	2.66E-03	8137	LOC768676	3.12	3.86E-03
8002	LOC426902	2.98	8.71E-04	8070	LOC429451	2.24	4.58E-02	8138	LOC768768	2.64	2.96E-03
8003	LOC426913	7.30	1.08E-03	8071	LOC429492	5.85	7.92E-04	8139	LOC768786	2.52	7.92E-03
8004	LOC426957	6.30	9.95E-04	8072	LOC429522	6.14	2.04E-03	8140	LOC768846	8.19	9.00E-03
8005	LOC427027	7.63	1.25E-03	8073	LOC429532	8.36	2.03E-05	8141	LOC768941	6.59	1.23E-03
8006	LOC427029	2.55	8.92E-03	8074	LOC429558	1.38	4.18E-04	8142	LOC768958	6.20	3.26E-03
8007	LOC427221	4.69	6.00E-04	8075	LOC429636	8.32	2.05E-04	8143	LOC768967	7.47	6.71E-04
8008	LOC427240	4.24	4.99E-03	8076	LOC429670	8.02	3.64E-03	8144	LOC768983	5.33	6.90E-04
8009	LOC427292	3.20	8.22E-02	8077	LOC429682	3.64	4.34E-04	8145	LOC769002	4.21	9.29E-04
8010	LOC427362	2.91	1.49E-03	8078	LOC429693	3.45	3.04E-03	8146	LOC769103	7.54	1.26E-02
8011	LOC427400	3.58	2.06E-03	8079	LOC429721	8.22	5.98E-05	8147	LOC769114	5.79	4.06E-05
8012	LOC427470	2.06	5.34E-03	8080	LOC429798	7.69	1.46E-04	8148	LOC769139	5.18	9.86E-05
8013	LOC427522	3.89	9.28E-04	8081	LOC429800	5.47	1.28E-03	8149	LOC769174	4.76	2.24E-03
8014	LOC427545	1.85	4.71E-03	8082	LOC429812	7.90	4.33E-03	8150	LOC769207	4.38	6.70E-03
8015	LOC427547	1.31	1.71E-02	8083	LOC429893	8.00	5.28E-04	8151	LOC769214	6.01	5.89E-03
8016	LOC427665	4.18	9.76E-03	8084	LOC429924	8.05	5.76E-04	8152	LOC769226	6.40	3.76E-03
8017	LOC427700	2.00	2.24E-01	8085	LOC429936	6.26	2.58E-05	8153	LOC769232	4.45	2.43E-03
8018	LOC427773	4.06	2.18E-02	8086	LOC429973	8.52	2.08E-03	8154	LOC769242	4.36	4.22E-03
8019	LOC427775	4.93	1.05E-03	8087	LOC430014	3.71	9.46E-03	8155	LOC769251	1.66	2.28E-02
8020	LOC427799	2.87	9.02E-03	8088	LOC430062	5.96	1.66E-03	8156	LOC769267	6.56	2.15E-03
8021	LOC427816	3.79	3.34E-03	8089	LOC430228	8.21	3.09E-04	8157	LOC769270	3.57	2.46E-03
8022	LOC427923	3.89	1.90E-03	8090	LOC430334	6.90	6.07E-04	8158	LOC769357	3.29	3.21E-04
8023	LOC427948	5.24	4.48E-03	8091	LOC430434	9.63	1.87E-04	8159	LOC769366	5.45	1.27E-03

8160	LOC769371	3.92	4.10E-03	8228	LOC771422	4.41	1.66E-03	8296	LRP2	3.15	1.20E-03
8161	LOC769416	8.21	5.57E-04	8229	LOC771437	5.70	3.24E-04	8297	LRP3	1.46	2.99E-02
8162	LOC769517	5.45	2.31E-03	8230	LOC771494	3.90	1.40E-03	8298	LRP4	2.46	1.23E-03
8163	LOC769577	3.59	1.09E-03	8231	LOC771545	2.70	3.67E-03	8299	LRRC10	4.58	3.46E-02
8164	LOC769590	2.06	1.12E-01	8232	LOC771573	4.66	2.09E-04	8300	LRRC10B	1.03	1.27E-03
8165	LOC769608	3.54	7.62E-03	8233	LOC771598	4.70	9.55E-03	8301	LRRC14B	4.56	3.76E-03
8166	LOC769670	2.61	1.42E-02	8234	LOC771607	3.12	6.91E-03	8302	LRRC15	5.70	4.35E-03
8167	LOC769676	2.55	1.84E-02	8235	LOC771612	3.73	1.34E-03	8303	LRRC17	1.81	3.70E-02
8168	LOC769726	3.21	5.17E-05	8236	LOC771647	3.15	2.57E-04	8304	LRRC2	5.21	1.85E-03
8169	LOC769731	3.81	1.93E-03	8237	LOC771657	3.65	4.75E-03	8305	LRRC26	4.79	2.59E-03
8170	LOC769741	5.66	2.34E-03	8238	LOC771758	3.85	1.55E-03	8306	LRRC30	3.70	4.86E-04
8171	LOC769749	4.11	1.21E-02	8239	LOC771761	4.85	1.64E-02	8307	LRRC32	3.28	2.56E-03
8172	LOC769834	5.42	2.55E-04	8240	LOC771782	3.51	1.41E-02	8308	LRRC33	4.24	6.97E-02
8173	LOC769837	3.02	4.34E-03	8241	LOC771856	4.75	3.58E-02	8309	LRRC38	1.61	9.20E-04
8174	LOC769841	6.43	4.76E-04	8242	LOC771877	1.45	7.65E-02	8310	LRRC39	4.94	2.14E-04
8175	LOC769869	5.35	2.14E-04	8243	LOC771911	4.34	6.98E-03	8311	LRRC41	2.23	1.10E-02
8176	LOC769885	1.57	1.19E-02	8244	LOC771972	4.78	1.75E-03	8312	LRRC58	1.73	4.11E-03
8177	LOC770026	5.37	2.19E-03	8245	LOC771995	3.15	1.97E-03	8313	LRRC8A	4.68	2.44E-03
8178	LOC770117	9.12	4.14E-04	8246	LOC772055	2.27	7.09E-03	8314	LRRK1	1.79	6.54E-03
8179	LOC770119	1.62	3.47E-03	8247	LOC772080	4.07	9.71E-04	8315	LRRN1	2.56	1.83E-03
8180	LOC770127	2.10	6.03E-03	8248	LOC772096	3.60	2.20E-04	8316	LRRN2	7.55	1.50E-03
8181	LOC770154	3.44	2.80E-03	8249	LOC772117	4.85	2.51E-03	8317	LRRN3	2.88	4.77E-03
8182	LOC770184	2.83	1.36E-02	8250	LOC772190	1.41	4.53E-03	8318	LRRTM1	2.24	4.90E-02
8183	LOC770201	2.86	1.12E-03	8251	LOC772198	3.00	3.67E-03	8319	LRRTM3	3.84	2.06E-04
8184	LOC770206	2.85	6.95E-03	8252	LOC772212	4.70	1.48E-03	8320	LRRTM4	5.09	2.15E-05
8185	LOC770260	2.10	2.25E-02	8253	LOC772218	1.25	2.82E-03	8321	LSP1	1.32	5.05E-03
8186	LOC770265	1.58	1.52E-02	8254	LOC772304	8.50	6.39E-05	8322	LTB4R	2.26	7.77E-04
8187	LOC770282	8.80	2.70E-04	8255	LOC772391	1.73	1.30E-02	8323	LTBP2	2.34	3.71E-02
8188	LOC770284	4.04	1.31E-02	8256	LOC776018	5.76	1.00E-03	8324	LTF	1.58	4.42E-04
8189	LOC770295	4.78	1.12E-03	8257	LOC776174	7.19	1.74E-03	8325	LY86	2.29	1.17E-03
8190	LOC770305	1.99	2.72E-02	8258	LOC776232	6.33	2.84E-02	8326	LY96	3.79	4.78E-03
8191	LOC770309	2.92	3.77E-04	8259	LOC776236	8.41	8.91E-03	8327	LYG2	3.50	2.56E-03
8192	LOC770340	3.28	3.31E-04	8260	LOC776271	2.30	6.11E-04	8328	LYPD2	1.57	4.22E-03
8193	LOC770352	1.81	2.82E-02	8261	LOC776507	3.12	6.82E-04	8329	LYSMD4	1.20	8.78E-03
8194	LOC770371	1.98	8.51E-03	8262	LOC776568	8.65	1.18E-02	8330	LZT51	4.55	1.13E-05
8195	LOC770392	3.65	8.39E-03	8263	LOC776703	7.71	3.39E-04	8331	LZT52	3.29	6.48E-03
8196	LOC770446	3.53	1.48E-02	8264	LOC776799	2.92	2.07E-02	8332	M24367	5.31	3.72E-03
8197	LOC770458	3.49	3.04E-04	8265	LOC776865	4.79	5.40E-02	8333	M27668	6.66	3.89E-02
8198	LOC770503	4.06	2.14E-03	8266	LOC777021	8.44	5.33E-03	8334	M30347	6.86	3.26E-03
8199	LOC770506	7.49	5.13E-05	8267	LOC777022	8.11	3.33E-04	8335	M31063	4.67	4.29E-04
8200	LOC770512	3.60	5.84E-03	8268	LOC777032	6.10	1.19E-04	8336	M31065	4.50	1.97E-05
8201	LOC770548	5.16	8.25E-03	8269	LOC777037	6.11	6.97E-04	8337	M31105	1.59	4.07E-02
8202	LOC770619	2.91	7.78E-03	8270	LOC777039	6.04	5.43E-02	8338	M32731	5.63	3.87E-03
8203	LOC770639	9.92	4.80E-04	8271	LOC777052	7.90	2.36E-04	8339	M35195	3.00	1.17E-02
8204	LOC770649	3.76	4.83E-03	8272	LOC777125	7.04	8.88E-04	8340	M63068	5.56	6.38E-03
8205	LOC770711	1.19	7.24E-03	8273	LOC777210	9.50	6.92E-04	8341	M63081	3.46	9.08E-03
8206	LOC770718	2.45	6.87E-03	8274	LOC777291	8.62	1.26E-04	8342	M81150	4.20	2.66E-03
8207	LOC770723	8.21	3.24E-04	8275	LOC777386	5.91	2.02E-03	8343	M88280	3.31	1.15E-03
8208	LOC770745	3.89	9.64E-05	8276	LOC777408	7.66	6.24E-04	8344	MAB2111	6.57	5.25E-03
8209	LOC770802	2.58	1.35E-02	8277	LOX	3.78	2.08E-03	8345	MAB21L2	5.40	4.49E-03
8210	LOC770833	6.25	9.90E-04	8278	LOXL3	3.75	2.72E-03	8346	MAB21L3	2.94	7.70E-03
8211	LOC770881	3.78	8.69E-03	8279	LOXL4	3.02	1.11E-02	8347	MACC1	5.84	3.24E-03
8212	LOC770890	3.14	4.65E-02	8280	LPAR3	2.07	5.59E-06	8348	MACF1	3.86	1.00E-02
8213	LOC770930	2.72	8.69E-04	8281	LPAR4	1.41	4.58E-03	8349	MADPRT	7.51	6.74E-03
8214	LOC770936	5.04	1.30E-03	8282	LPAR5	4.38	7.22E-03	8350	MAF	2.02	3.42E-02
8215	LOC770996	1.27	4.53E-02	8283	LPHN3	4.79	1.89E-03	8351	MAFA	4.95	3.27E-04
8216	LOC771012	4.87	1.21E-03	8284	LPIN1	1.92	5.41E-03	8352	MAFB	1.53	3.44E-02
8217	LOC771028	5.11	1.56E-04	8285	LPL	3.50	6.57E-04	8353	MAFF	3.80	2.72E-02
8218	LOC771030	5.21	1.34E-02	8286	LPP	2.09	4.97E-03	8354	MAFG	1.73	1.01E-01
8219	LOC771085	4.51	1.75E-03	8287	LPPR4	6.03	1.13E-02	8355	MAG11	2.64	1.69E-02
8220	LOC771107	4.86	6.16E-03	8288	LPXN	2.25	1.14E-01	8356	MAG12	2.50	4.87E-03
8221	LOC771121	3.98	8.05E-03	8289	LRAT	3.20	1.53E-02	8357	MAL	1.58	1.78E-02
8222	LOC771141	4.14	2.06E-02	8290	LRCH3	2.21	5.26E-04	8358	MALL	1.89	2.28E-03
8223	LOC771171	4.09	6.13E-03	8291	LRFN2	6.46	1.55E-03	8359	MALT1	3.10	4.20E-03
8224	LOC771268	2.34	9.09E-03	8292	LRFN5	1.93	3.16E-02	8360	MAML2	3.10	1.52E-02
8225	LOC771321	4.58	2.29E-02	8293	LRI11	5.04	2.71E-05	8361	MAML3	2.20	2.13E-03
8226	LOC771349	2.40	1.40E-02	8294	LRP1	2.43	1.49E-03	8362	MAMLD1	2.17	3.04E-03
8227	LOC771366	1.39	1.15E-02	8295	LRP1B	1.18	2.32E-02	8363	MAN1A1	1.38	1.19E-03

8364	MANEAL	3.03	2.03E-03	8432	MLLT1	1.33	3.22E-03	8500	MYH6	2.13	1.38E-04
8365	MAOB	1.64	1.66E-02	8433	MLNR	1.40	6.33E-03	8501	MYH7	3.16	8.05E-03
8366	MAP3K14	1.57	9.73E-03	8434	MLPH	5.03	8.81E-04	8502	MYL2	3.76	2.66E-04
8367	MAP3K5	3.28	1.33E-02	8435	MLXPL	5.48	3.90E-06	8503	MYLK4	4.13	1.72E-03
8368	MAP3K8	3.02	1.19E-02	8436	MMO2	4.78	6.11E-04	8504	MYLPF	3.91	8.16E-03
8369	MAP4	3.12	7.19E-03	8437	MMEL1	4.16	7.45E-04	8505	MYO16	2.36	5.22E-03
8370	MAP6	2.33	8.22E-04	8438	MMP1	3.98	3.40E-03	8506	MYO18B	1.69	1.67E-02
8371	MAP7D1	4.21	1.11E-01	8439	MMP10	2.50	2.14E-02	8507	MYO1D	1.78	2.55E-03
8372	MAPK10	3.62	9.03E-02	8440	MMP14	4.15	4.50E-03	8508	MYO1G	2.59	1.50E-03
8373	MAPK13	2.69	1.34E-02	8441	MMP16	2.25	2.01E-03	8509	MYO3A	3.42	4.52E-03
8374	MAPK8	1.49	1.35E-02	8442	MMP17	2.71	2.20E-03	8510	MYO7A	6.29	6.77E-03
8375	MARCO	2.74	1.73E-02	8443	MMP27	3.68	1.14E-02	8511	MYOC	1.46	1.12E-01
8376	MARS	2.58	2.63E-02	8444	MMP28	2.41	9.41E-04	8512	MYOCD	3.11	3.87E-03
8377	MARVELD3	1.72	3.36E-03	8445	MMP7	4.98	1.00E-04	8513	MYOD1	3.68	1.39E-02
8378	MASP1	1.77	9.99E-02	8446	MMP9	1.64	8.81E-03	8514	MYOG	3.76	1.68E-03
8379	MAST3	1.80	1.27E-02	8447	MMRN1	1.98	4.73E-02	8515	MYOM1	1.33	1.99E-02
8380	MATN1	1.99	1.07E-02	8448	MNR2	2.55	1.19E-03	8516	MYOZ1	5.03	7.28E-03
8381	MB	3.68	8.45E-04	8449	MNT	3.70	4.53E-04	8517	MYOZ3	2.91	1.53E-02
8382	MBL2	1.90	1.41E-02	8450	MOBK12C	6.18	1.10E-03	8518	MYT1	4.94	1.30E-03
8383	MBOAT1	3.06	2.91E-03	8451	MOCOS	4.95	7.15E-03	8519	MYT1L	2.35	6.23E-04
8384	MBOAT4	3.38	3.11E-04	8452	MOC51	1.26	2.34E-02	8520	N4BP3	3.86	9.75E-05
8385	MBP	5.69	4.23E-03	8453	MOG	1.65	2.96E-02	8521	NADK01	1.31	7.83E-03
8386	MC1R	4.16	2.41E-03	8454	MOGAT2	2.71	1.89E-03	8522	NANOG	4.11	2.54E-03
8387	MC4R	5.36	3.23E-03	8455	MOS	4.39	8.24E-04	8523	NAT	3.11	1.83E-02
8388	MCSR	6.20	2.95E-03	8456	MPO	4.92	1.55E-02	8524	NAT8	1.41	8.51E-04
8389	MCAM	2.04	1.24E-03	8457	MPP2	1.46	1.44E-02	8525	NAT8L	2.69	3.10E-02
8390	MCTP1	5.67	2.14E-05	8458	MP2L2	2.32	6.93E-03	8526	NBEA	1.06	2.03E-02
8391	MCU	2.39	8.65E-03	8459	MRAP	2.22	1.53E-02	8527	NBEAL2	2.99	1.26E-05
8392	MDFI	4.12	4.08E-04	8460	MRC2	3.31	1.88E-04	8528	NCAM2	2.09	4.08E-04
8393	MED13	2.91	1.43E-03	8461	MREG	2.60	2.47E-03	8529	NCAPH2	2.31	6.41E-03
8394	MED13L	2.12	1.18E-03	8462	MRGPRH	2.59	1.13E-04	8530	NCF1	2.67	5.03E-02
8395	MEF2B	3.02	1.72E-02	8463	MSGN1	3.41	9.00E-05	8531	NCF2	2.26	2.55E-04
8396	MEF2C	2.59	1.80E-03	8464	MSLN1	5.53	2.52E-03	8532	NCF4	3.98	7.02E-04
8397	MEIS1	1.40	3.37E-02	8465	MSMB	1.82	1.64E-02	8533	NCKAP1L	3.02	3.29E-02
8398	MEIS2	1.42	4.04E-04	8466	MST1R	5.76	2.18E-03	8534	NCOR2	3.04	1.16E-03
8399	MEOX1	4.28	1.48E-03	8467	MSTN	7.27	8.33E-04	8535	NDNF	1.95	3.00E-03
8400	MEPE	3.33	3.27E-03	8468	MSTO1	1.19	1.40E-02	8536	NDRG4	4.49	1.92E-03
8401	MERTK	1.04	2.47E-03	8469	MSX1	1.30	9.47E-03	8537	NDST1	3.03	6.61E-04
8402	MESP2	3.07	1.79E-02	8470	MSX2	8.23	2.93E-03	8538	NDST2	3.09	1.25E-02
8403	MET	3.64	2.00E-03	8471	MTCH1	2.13	9.92E-03	8539	NDST4	2.62	1.06E-02
8404	METTL11B	2.67	1.30E-03	8472	MTFHD1L	1.43	1.99E-02	8540	NECAB2	3.22	2.52E-03
8405	METTL21C	1.89	2.46E-03	8473	MTMR12	2.26	6.82E-03	8541	NEDD9	4.08	1.31E-03
8406	MEX3A	3.38	4.60E-03	8474	MTMR4	2.62	1.16E-03	8542	NEK4	4.74	5.01E-04
8407	MFAP3L	3.17	3.44E-04	8475	MTMR7	2.97	1.49E-02	8543	NEK8	3.52	9.60E-05
8408	MFAP5	5.32	2.49E-04	8476	MTMR9LP	3.19	1.57E-03	8544	NEK9	1.89	5.21E-03
8409	MFHAS1	1.83	9.69E-04	8477	MTNR1A	5.89	5.17E-04	8545	NES	3.60	5.19E-04
8410	MFS012	3.38	2.45E-05	8478	MTNR1B	2.10	2.52E-02	8546	NETO1	3.18	4.52E-03
8411	MFS02B	3.56	4.19E-03	8479	MTSS1L	3.39	1.34E-03	8547	NETO2	1.68	1.39E-02
8412	MFS04	3.65	2.53E-03	8480	MUC1	1.48	1.05E-02	8548	NEURL2	3.52	2.29E-03
8413	MFS05	1.67	1.32E-03	8481	MUC13	3.08	7.71E-03	8549	NEUROD4	4.55	4.90E-05
8414	MFS06	1.65	1.08E-03	8482	MUC2	3.61	2.90E-05	8550	NEUROD6	5.62	2.05E-04
8415	MFS07	3.40	8.40E-03	8483	MUC6	2.92	2.21E-04	8551	NEUROG1	7.59	1.31E-03
8416	MGAT4C	2.29	5.42E-03	8484	MURC	5.90	7.29E-04	8552	NFATC1	2.65	1.51E-02
8417	MGAT5B	5.54	4.33E-03	8485	MUSK	3.49	1.91E-02	8553	NFATC2	5.80	1.68E-03
8418	MICAL1	1.73	4.78E-03	8486	MUTYH	3.52	6.64E-04	8554	NFIB	1.23	1.11E-02
8419	MICAL3	1.69	7.56E-03	8487	MVD	4.10	1.14E-02	8555	NFKB2	2.96	7.22E-04
8420	MID1	1.70	4.62E-03	8488	MVK	3.81	1.42E-03	8556	NGB	2.29	1.42E-03
8421	MID2	3.82	2.21E-03	8489	MX1	2.04	5.16E-03	8557	NGF	2.97	1.34E-02
8422	MIER2	3.23	3.33E-03	8490	MXRA5	1.88	2.00E-02	8558	NGFR	2.63	4.94E-03
8423	MILR1	1.78	4.90E-03	8491	MYADML2	2.59	9.78E-03	8559	NHLH1	3.34	3.65E-03
8424	MIP	2.55	8.21E-02	8492	MYB	1.53	1.07E-02	8560	NHLH2	6.21	1.02E-03
8425	MITF	1.88	1.20E-02	8493	MYBPC1	3.31	2.02E-04	8561	NHLRC1	1.72	1.63E-03
8426	MIXL1	2.86	2.97E-02	8494	MYBPC2	2.74	8.15E-03	8562	NHS	4.05	1.51E-02
8427	MKL2	2.76	3.61E-03	8495	MYBPC3	3.65	5.66E-04	8563	NHSL1	3.03	5.25E-04
8428	MKKN2	3.71	1.58E-03	8496	MYBPH	3.15	7.76E-04	8564	NID2	1.79	2.91E-03
8429	MXK	3.85	6.18E-03	8497	MYC	2.87	2.77E-03	8565	NIN	3.77	6.27E-04
8430	MLANA	2.06	3.91E-03	8498	MYCL1	4.68	1.10E-02	8566	NIPAL4	4.58	1.99E-03
8431	MLL2	4.01	3.06E-03	8499	MYCT1	2.83	1.04E-02	8567	NKAIN1	3.14	8.65E-04

8568	NKAIN2	3.49	1.24E-02	8636	NP9665218	5.78	9.94E-04	8704	NP9666023	6.64	3.19E-03
8569	NKX2-1	5.11	3.30E-03	8637	NP9665230	5.69	6.57E-04	8705	NP9666029	9.15	1.47E-05
8570	NKX2-2	4.36	2.03E-02	8638	NP9665238	2.98	2.72E-03	8706	NP9666036	5.92	3.62E-02
8571	NKX2-5	3.22	3.91E-02	8639	NP9665240	10.72	3.07E-06	8707	NP9666041	5.26	6.30E-04
8572	NKX2-6	3.44	3.24E-03	8640	NP9665243	6.68	1.07E-03	8708	NP9666048	4.74	6.81E-03
8573	NKX6-2	3.11	2.97E-02	8641	NP9665277	3.97	1.15E-01	8709	NP9666054	5.09	7.61E-03
8574	NKX6-3	1.69	6.92E-03	8642	NP9665312	5.51	3.98E-03	8710	NP9666084	9.38	1.27E-03
8575	NLE1	3.69	5.72E-04	8643	NP9665347	6.19	1.74E-03	8711	NP9666085	4.60	3.35E-02
8576	NLGN1	1.43	5.66E-02	8644	NP9665364	2.79	5.89E-02	8712	NP9666087	2.20	5.55E-02
8577	NLGN3	3.23	4.77E-03	8645	NP9665371	3.43	1.51E-03	8713	NP9666154	3.63	2.28E-02
8578	NLGN4X	2.63	7.31E-03	8646	NP9665374	5.70	1.75E-03	8714	NP9666189	2.81	6.01E-04
8579	NLRC5	4.19	7.84E-04	8647	NP9665382	3.05	7.43E-03	8715	NP9666191	5.93	1.95E-03
8580	NMNA2	3.14	2.00E-03	8648	NP9665383	4.18	7.53E-03	8716	NP9666194	3.26	6.23E-04
8581	NMU	4.05	3.98E-04	8649	NP9665389	6.83	3.83E-04	8717	NP9666229	7.96	2.56E-03
8582	NMUR1	1.81	3.18E-04	8650	NP9665406	1.59	5.31E-02	8718	NP9666246	11.05	1.76E-03
8583	NMUR2	8.56	6.86E-04	8651	NP9665431	4.12	2.84E-03	8719	NP9666249	3.45	8.56E-02
8584	NOC2L	3.96	7.33E-03	8652	NP9665438	8.35	3.42E-04	8720	NP9666251	7.64	1.25E-03
8585	NOD1	3.21	6.23E-03	8653	NP9665452	5.43	2.54E-03	8721	NP9666252	2.30	2.81E-03
8586	NODAL	2.97	1.18E-01	8654	NP9665457	8.93	1.77E-03	8722	NP9666258	4.18	1.09E-02
8587	NOG2	4.06	1.16E-02	8655	NP9665462	8.20	3.20E-03	8723	NP9666272	5.05	6.54E-03
8588	NOL4	2.79	6.24E-03	8656	NP9665465	8.57	3.65E-03	8724	NP9666273	4.40	1.23E-02
8589	NOL8	2.80	5.13E-03	8657	NP9665472	7.70	4.64E-03	8725	NP9666274	5.02	9.83E-03
8590	NOS3	4.21	3.21E-04	8658	NP9665481	1.44	2.38E-02	8726	NP9666285	4.17	2.19E-02
8591	NOTCH2	1.61	2.29E-03	8659	NP9665532	3.55	8.17E-04	8727	NP9666313	8.81	3.30E-03
8592	NOX1	2.10	4.68E-02	8660	NP9665534	1.75	2.41E-03	8728	NP9666317	7.32	4.65E-03
8593	NOX3	4.10	1.12E-02	8661	NP9665546	4.38	1.04E-03	8729	NP9666340	5.08	6.14E-03
8594	NOX4	2.79	7.28E-02	8662	NP9665562	3.61	2.18E-02	8730	NP9666376	1.53	4.75E-02
8595	NOX5	5.78	1.42E-04	8663	NP9665563	4.17	1.99E-02	8731	NP9666382	5.31	7.53E-04
8596	NOXO1	2.98	9.89E-04	8664	NP9665590	3.82	5.34E-03	8732	NP9666400	7.90	7.31E-03
8597	NP12999553	1.98	1.42E-02	8665	NP9665591	2.08	1.03E-01	8733	NP9666417	8.93	8.20E-04
8598	NP12999571	6.10	7.80E-03	8666	NP9665599	5.21	1.11E-02	8734	NP9666446	3.22	2.27E-03
8599	NP12999578	7.09	1.08E-03	8667	NP9665601	5.06	1.40E-03	8735	NP9666452	2.96	4.69E-03
8600	NP12999579	3.28	4.48E-03	8668	NP9665603	1.36	2.62E-03	8736	NP9666461	7.79	2.90E-03
8601	NP12999587	3.63	2.68E-03	8669	NP9665618	2.75	7.66E-02	8737	NP9666462	8.87	7.43E-04
8602	NP12999592	5.61	3.25E-04	8670	NP9665630	7.35	3.62E-05	8738	NP9666463	3.31	1.27E-03
8603	NP12999596	4.63	4.50E-03	8671	NP9665633	2.64	8.68E-02	8739	NP9666475	8.92	1.38E-03
8604	NP9664788	7.53	2.66E-03	8672	NP9665640	4.82	6.22E-03	8740	NP9666513	9.82	1.43E-03
8605	NP9664794	5.54	1.22E-03	8673	NP9665644	5.28	1.25E-03	8741	NP9666514	9.73	2.22E-03
8606	NP9664803	5.17	3.15E-03	8674	NP9665680	5.22	3.77E-03	8742	NP9666529	7.85	1.19E-03
8607	NP9664811	5.50	1.65E-03	8675	NP9665682	4.34	4.56E-02	8743	NP9666532	3.54	6.06E-02
8608	NP9664816	2.86	4.24E-03	8676	NP9665710	2.94	4.24E-03	8744	NP9666540	4.24	1.77E-02
8609	NP9664839	6.81	6.90E-03	8677	NP9665725	3.57	6.83E-03	8745	NP9666542	5.19	1.96E-03
8610	NP9664843	5.65	3.89E-03	8678	NP9665731	6.71	1.97E-03	8746	NP9666543	6.97	8.92E-04
8611	NP9664861	5.12	1.54E-02	8679	NP9665744	6.63	4.33E-03	8747	NP9666547	4.02	1.00E-03
8612	NP9664879	2.33	7.36E-03	8680	NP9665748	5.27	5.68E-03	8748	NP9666549	2.30	2.20E-02
8613	NP9664897	6.08	8.17E-03	8681	NP9665779	2.29	1.94E-01	8749	NP9666555	2.71	2.21E-03
8614	NP9664900	3.35	1.98E-02	8682	NP9665814	4.03	1.20E-03	8750	NP9666561	1.67	9.07E-03
8615	NP9664901	6.64	1.21E-02	8683	NP9665820	3.94	1.47E-02	8751	NP9666563	7.23	1.86E-03
8616	NP9664904	3.47	2.82E-03	8684	NP9665849	4.38	1.09E-02	8752	NP9666585	6.66	7.31E-04
8617	NP9664943	3.11	3.48E-03	8685	NP9665876	4.90	7.91E-03	8753	NP9666599	3.15	6.53E-05
8618	NP9664952	6.07	1.88E-03	8686	NP9665887	4.98	5.41E-03	8754	NP9666600	3.74	2.34E-02
8619	NP9664960	5.03	6.33E-05	8687	NP9665891	3.98	2.18E-03	8755	NP9666601	3.72	2.63E-02
8620	NP9664963	7.03	2.61E-03	8688	NP9665893	7.44	3.04E-02	8756	NP9666604	5.82	1.25E-02
8621	NP9665008	7.14	1.75E-03	8689	NP9665906	7.16	1.38E-03	8757	NP9666612	7.85	1.45E-03
8622	NP9665019	8.12	2.88E-03	8690	NP9665913	9.93	9.26E-04	8758	NP9666620	7.67	2.83E-04
8623	NP9665025	2.98	3.10E-04	8691	NP9665914	5.08	6.25E-03	8759	NP9666637	3.52	6.10E-02
8624	NP9665046	9.34	2.57E-03	8692	NP9665952	5.98	1.04E-03	8760	NP9666642	4.47	1.75E-02
8625	NP9665054	1.61	2.62E-02	8693	NP9665961	7.74	3.89E-03	8761	NP9666644	2.64	3.51E-03
8626	NP9665060	5.13	8.88E-03	8694	NP9665964	4.27	1.24E-02	8762	NP9666656	5.82	3.60E-03
8627	NP9665086	5.86	6.83E-03	8695	NP9665967	3.46	2.02E-04	8763	NP9666692	4.15	1.38E-03
8628	NP9665099	2.57	2.20E-01	8696	NP9665971	3.21	2.37E-02	8764	NP9666703	3.00	8.36E-02
8629	NP9665100	3.61	2.52E-03	8697	NP9665981	2.75	7.65E-03	8765	NP9666748	4.58	3.35E-03
8630	NP9665102	3.09	4.26E-03	8698	NP9665986	2.20	6.18E-02	8766	NP9666766	6.71	3.10E-04
8631	NP9665112	6.00	9.68E-04	8699	NP9665989	6.24	2.74E-03	8767	NP9666783	8.18	1.24E-03
8632	NP9665135	5.95	4.54E-04	8700	NP9665998	3.48	2.89E-04	8768	NP9666784	3.86	1.08E-02
8633	NP9665148	9.50	1.37E-03	8701	NP9666005	5.29	4.37E-06	8769	NP9666785	6.34	1.72E-01
8634	NP9665202	3.73	9.77E-03	8702	NP9666006	3.88	4.66E-03	8770	NP9666797	2.05	6.62E-02
8635	NP9665208	4.00	5.77E-02	8703	NP9666015	3.01	1.73E-02	8771	NP9666824	7.51	3.41E-03

8772	NP9666833	3.11	1.37E-02	8840	NP9667900	7.24	4.18E-03	8908	NP9669015	3.58	4.37E-03
8773	NP9666838	10.06	1.32E-03	8841	NP9667919	6.89	5.02E-03	8909	NP9669033	1.96	7.23E-03
8774	NP9666842	4.41	4.30E-03	8842	NP9667932	5.16	9.38E-04	8910	NP9669061	3.85	7.77E-03
8775	NP9666851	5.17	1.77E-03	8843	NP9667938	3.25	8.10E-04	8911	NP9669072	2.99	1.24E-02
8776	NP9666879	4.35	7.22E-03	8844	NP9667945	4.07	2.60E-03	8912	NP9669075	4.07	7.63E-03
8777	NP9666916	7.91	4.75E-04	8845	NP9667966	3.10	8.09E-03	8913	NP9669080	3.59	3.00E-03
8778	NP9666917	1.64	8.58E-03	8846	NP9667982	2.15	5.06E-03	8914	NP9669116	2.98	1.77E-03
8779	NP9666932	4.61	3.52E-03	8847	NP9667999	7.26	7.12E-04	8915	NP9669128	9.76	1.83E-04
8780	NP9666947	2.67	7.56E-02	8848	NP9668017	3.86	3.29E-03	8916	NP9669130	3.92	1.05E-03
8781	NP9666948	4.73	6.84E-03	8849	NP9668021	6.03	6.03E-03	8917	NP9669133	7.25	4.63E-03
8782	NP9666962	5.01	4.14E-04	8850	NP9668031	2.66	2.75E-02	8918	NP9669144	2.60	1.69E-03
8783	NP9666967	5.59	1.70E-03	8851	NP9668058	5.48	7.14E-04	8919	NP9669152	10.57	6.11E-04
8784	NP9666973	4.90	7.27E-03	8852	NP9668131	6.85	5.62E-03	8920	NP9669153	2.24	5.82E-03
8785	NP9666979	8.76	2.18E-04	8853	NP9668133	1.74	1.84E-02	8921	NP9669172	1.68	8.38E-04
8786	NP9666988	5.53	1.02E-03	8854	NP9668158	2.95	2.17E-03	8922	NP9669190	9.69	5.86E-03
8787	NP9666996	2.60	4.18E-02	8855	NP9668162	1.23	2.95E-02	8923	NP9669199	3.99	6.05E-03
8788	NP9666998	2.19	4.46E-03	8856	NP9668190	1.57	5.53E-02	8924	NP9669230	10.41	5.76E-04
8789	NP9667024	4.64	1.41E-03	8857	NP9668219	1.61	1.28E-03	8925	NP9669232	6.76	6.22E-03
8790	NP9667060	2.33	4.06E-02	8858	NP9668223	4.76	9.80E-02	8926	NP9669240	2.92	2.04E-03
8791	NP9667063	4.27	4.85E-03	8859	NP9668233	1.65	4.91E-03	8927	NP9669254	3.53	1.57E-02
8792	NP9667087	2.01	1.86E-02	8860	NP9668243	4.54	3.03E-02	8928	NP9669275	2.24	1.80E-03
8793	NP9667090	3.70	1.17E-02	8861	NP9668307	3.10	8.48E-03	8929	NP9669283	8.66	1.38E-03
8794	NP9667103	5.22	5.37E-04	8862	NP9668325	3.92	1.91E-02	8930	NP9669303	6.24	2.18E-03
8795	NP9667109	4.04	9.76E-04	8863	NP9668346	4.66	1.10E-03	8931	NP9669313	6.64	2.87E-04
8796	NP9667128	7.80	2.30E-04	8864	NP9668369	5.01	4.23E-03	8932	NP9669340	3.19	6.03E-03
8797	NP9667135	3.92	2.03E-04	8865	NP9668379	6.28	6.45E-05	8933	NP9669360	5.08	3.90E-03
8798	NP9667169	3.30	5.49E-04	8866	NP9668402	1.60	2.07E-02	8934	NP9669364	6.39	1.94E-03
8799	NP9667188	1.91	3.86E-03	8867	NP9668404	5.52	1.53E-04	8935	NP9669365	3.66	4.03E-03
8800	NP9667204	7.22	6.70E-05	8868	NP9668409	2.81	1.51E-02	8936	NP9669391	2.76	4.17E-03
8801	NP9667219	6.93	1.43E-03	8869	NP9668428	3.99	9.30E-04	8937	NP9669400	3.70	1.17E-03
8802	NP9667252	6.90	7.70E-02	8870	NP9668430	4.69	9.69E-04	8938	NP9669404	3.66	4.60E-04
8803	NP9667258	8.66	7.96E-04	8871	NP9668440	3.97	2.09E-03	8939	NP9669410	6.12	5.98E-03
8804	NP9667278	5.16	1.79E-03	8872	NP9668455	6.54	4.21E-03	8940	NP9669423	3.98	8.21E-04
8805	NP9667292	6.30	7.45E-03	8873	NP9668520	5.28	8.90E-04	8941	NP9669426	2.86	3.75E-03
8806	NP9667303	5.54	1.82E-03	8874	NP9668554	6.29	6.83E-04	8942	NP9669429	1.47	9.37E-02
8807	NP9667315	4.11	5.41E-03	8875	NP9668568	4.22	7.97E-04	8943	NP9669439	5.98	2.66E-03
8808	NP9667326	1.54	1.71E-02	8876	NP9668572	4.11	1.98E-02	8944	NP9669441	6.02	9.83E-03
8809	NP9667343	4.08	2.53E-03	8877	NP9668578	1.84	2.62E-02	8945	NP9669457	5.15	8.60E-04
8810	NP9667347	6.68	6.05E-03	8878	NP9668602	2.48	2.22E-03	8946	NP9669459	2.65	1.77E-04
8811	NP9667384	4.09	7.23E-04	8879	NP9668651	3.19	1.71E-01	8947	NP9669471	6.40	6.54E-04
8812	NP9667412	6.61	1.93E-03	8880	NP9668653	4.19	3.21E-03	8948	NP9669472	2.93	1.52E-02
8813	NP9667437	3.35	4.81E-03	8881	NP9668655	8.87	1.51E-03	8949	NP9669486	1.89	2.75E-02
8814	NP9667438	1.83	5.53E-03	8882	NP9668656	10.63	3.29E-04	8950	NP9669513	3.20	3.09E-03
8815	NP9667443	2.97	2.47E-03	8883	NP9668673	8.72	3.02E-03	8951	NP9669542	1.74	6.01E-02
8816	NP9667459	3.51	2.10E-03	8884	NP9668695	2.91	4.73E-03	8952	NP9669566	2.99	6.65E-03
8817	NP9667498	3.82	1.10E-02	8885	NP9668704	5.58	4.77E-04	8953	NP9669571	3.40	1.59E-02
8818	NP9667502	2.77	2.79E-02	8886	NP9668708	4.04	1.34E-02	8954	NP9669581	5.78	3.57E-03
8819	NP9667520	7.07	3.91E-04	8887	NP9668717	7.60	9.01E-04	8955	NP9669585	1.59	2.21E-04
8820	NP9667540	2.50	3.13E-02	8888	NP9668730	4.03	5.28E-03	8956	NP9669605	3.62	4.92E-02
8821	NP9667554	3.44	1.38E-03	8889	NP9668740	4.36	3.60E-04	8957	NP9669609	4.92	3.97E-03
8822	NP9667577	2.35	1.22E-01	8890	NP9668764	6.13	1.38E-03	8958	NP9669616	4.10	4.68E-05
8823	NP9667610	3.04	1.97E-02	8891	NP9668784	8.72	3.80E-03	8959	NP9669622	4.52	3.24E-04
8824	NP9667637	1.29	3.02E-03	8892	NP9668791	9.39	1.32E-03	8960	NP9669623	5.94	9.13E-04
8825	NP9667658	5.38	3.52E-03	8893	NP9668794	3.47	7.69E-02	8961	NP9669625	4.33	1.63E-04
8826	NP9667679	4.89	5.44E-03	8894	NP9668795	4.69	5.50E-03	8962	NP9669629	3.54	1.15E-02
8827	NP9667683	2.61	1.87E-01	8895	NP9668799	4.01	2.38E-04	8963	NP9669676	4.15	1.34E-03
8828	NP9667685	2.65	1.12E-02	8896	NP9668862	3.02	3.85E-03	8964	NP9669722	5.04	6.97E-03
8829	NP9667703	4.24	2.70E-03	8897	NP9668872	4.78	7.93E-04	8965	NP9669723	2.56	1.65E-02
8830	NP9667706	6.40	4.31E-04	8898	NP9668888	7.41	1.06E-03	8966	NP9669726	5.53	1.79E-03
8831	NP9667708	3.37	3.77E-03	8899	NP9668901	6.15	3.25E-05	8967	NP9669751	3.98	1.11E-02
8832	NP9667729	7.23	3.90E-05	8900	NP9668902	10.87	1.61E-03	8968	NP9669788	4.49	1.38E-03
8833	NP9667759	6.36	4.16E-04	8901	NP9668903	1.74	1.63E-02	8969	NP9669792	5.47	8.83E-03
8834	NP9667769	6.23	2.62E-03	8902	NP9668920	9.12	1.06E-02	8970	NP9669807	3.31	3.21E-04
8835	NP9667812	6.70	7.44E-04	8903	NP9668931	4.95	4.01E-03	8971	NP9669823	4.43	5.47E-03
8836	NP9667820	3.63	3.65E-03	8904	NP9668964	3.03	1.13E-02	8972	NP9669839	2.74	4.06E-03
8837	NP9667841	6.64	8.19E-04	8905	NP9668968	8.75	2.13E-04	8973	NP9669849	4.71	2.36E-03
8838	NP9667869	5.68	8.69E-04	8906	NP9668981	3.57	2.17E-03	8974	NP9669901	4.02	6.55E-04
8839	NP9667898	2.80	1.07E-02	8907	NP9669003	6.28	5.23E-03	8975	NP9669941	2.31	6.93E-02

8976	NP9669973	2.04	1.97E-02	9044	NP9671645	3.88	1.15E-02	9112	NP9673040	6.34	8.00E-04
8977	NP9669991	2.36	2.72E-02	9045	NP9671675	3.26	5.20E-03	9113	NP9673071	5.77	1.94E-03
8978	NP9670005	2.86	4.75E-03	9046	NP9671719	3.80	7.12E-03	9114	NP9673076	4.97	1.31E-03
8979	NP9670041	5.00	6.96E-03	9047	NP9671738	5.27	1.83E-04	9115	NP9673081	4.88	1.32E-03
8980	NP9670043	5.11	3.68E-04	9048	NP9671765	4.77	1.76E-03	9116	NP9673093	4.28	5.05E-04
8981	NP9670046	7.15	5.24E-03	9049	NP9671814	6.54	3.75E-03	9117	NP9673125	6.07	6.19E-03
8982	NP9670057	3.25	5.48E-03	9050	NP9671824	3.01	2.48E-02	9118	NP9673152	4.28	4.72E-04
8983	NP9670075	3.68	6.00E-03	9051	NP9671825	3.70	9.26E-03	9119	NP9673163	2.84	6.29E-03
8984	NP9670099	3.53	8.82E-04	9052	NP9671885	5.41	1.92E-03	9120	NP9673182	2.11	1.88E-01
8985	NP9670105	2.04	1.85E-02	9053	NP9671917	3.01	1.73E-02	9121	NP9673217	3.25	2.06E-03
8986	NP9670118	5.54	1.03E-03	9054	NP9671919	5.26	4.37E-04	9122	NP9673254	2.36	5.54E-03
8987	NP9670156	1.72	1.30E-02	9055	NP9671920	2.81	6.01E-02	9123	NP9673261	3.10	3.93E-03
8988	NP9670248	5.14	9.55E-04	9056	NP9671924	2.98	7.66E-03	9124	NP9673275	3.89	9.55E-04
8989	NP9670250	8.36	3.54E-04	9057	NP9671973	7.27	5.56E-05	9125	NP9673346	3.67	6.68E-04
8990	NP9670251	8.17	1.20E-04	9058	NP9672006	5.11	5.29E-02	9126	NP9673362	3.41	7.23E-05
8991	NP9670256	8.37	1.43E-03	9059	NP9672047	7.07	1.22E-02	9127	NP9673388	2.44	2.45E-02
8992	NP9670274	8.09	7.80E-05	9060	NP9672059	3.79	5.20E-03	9128	NP9673392	4.30	1.41E-03
8993	NP9670284	9.14	6.14E-04	9061	NP9672086	3.31	1.76E-02	9129	NP9673419	5.44	4.70E-03
8994	NP9670298	4.70	1.03E-03	9062	NP9672119	4.35	1.29E-03	9130	NP9673421	5.10	4.65E-03
8995	NP9670340	5.42	5.02E-04	9063	NP9672123	4.68	3.90E-02	9131	NP9673435	6.08	7.62E-03
8996	NP9670354	4.84	1.11E-03	9064	NP9672127	4.53	3.62E-05	9132	NP9673443	1.34	5.71E-02
8997	NP9670398	4.64	6.90E-04	9065	NP9672171	3.41	1.16E-02	9133	NP9673447	4.57	2.86E-03
8998	NP9670462	4.67	7.78E-03	9066	NP9672174	2.66	2.87E-04	9134	NP9673449	3.98	5.06E-03
8999	NP9670468	2.97	8.49E-02	9067	NP9672232	4.47	3.64E-04	9135	NP9673450	1.26	3.22E-02
9000	NP9670499	3.20	8.07E-03	9068	NP9672262	2.93	4.32E-03	9136	NP9673464	2.52	2.06E-03
9001	NP9670504	3.79	3.12E-04	9069	NP9672287	5.34	6.91E-04	9137	NP9673497	2.17	3.33E-03
9002	NP9670505	3.85	5.96E-04	9070	NP9672295	2.36	7.08E-03	9138	NP9673504	1.04	1.87E-02
9003	NP9670510	2.17	3.61E-03	9071	NP9672304	5.28	1.16E-02	9139	NP9673507	4.38	1.26E-01
9004	NP9670512	9.48	2.04E-03	9072	NP9672314	1.66	1.82E-02	9140	NP9673550	3.89	8.64E-04
9005	NP9670548	6.03	4.93E-03	9073	NP9672316	3.97	6.31E-03	9141	NP9673584	3.93	8.06E-02
9006	NP9670578	5.40	1.39E-02	9074	NP9672331	3.83	1.28E-03	9142	NP9673605	2.64	1.62E-02
9007	NP9670650	3.87	1.51E-03	9075	NP9672359	2.44	1.14E-01	9143	NP9673613	2.82	2.43E-03
9008	NP9670705	5.18	5.49E-04	9076	NP9672365	3.89	2.45E-04	9144	NP9673630	2.36	4.00E-03
9009	NP9670708	3.34	3.27E-04	9077	NP9672368	2.69	1.45E-02	9145	NP9673637	6.63	3.29E-03
9010	NP9670778	2.83	8.85E-03	9078	NP9672369	4.50	6.04E-03	9146	NP9673688	5.57	5.23E-04
9011	NP9670813	1.71	7.84E-04	9079	NP9672411	4.05	2.06E-03	9147	NP9673715	2.58	6.65E-02
9012	NP9670842	5.67	2.63E-04	9080	NP9672431	1.99	1.43E-02	9148	NP9673732	3.67	1.37E-03
9013	NP9670852	6.74	1.61E-03	9081	NP9672438	5.80	3.30E-02	9149	NP9673756	2.88	1.27E-02
9014	NP9670858	5.73	1.63E-04	9082	NP9672444	6.35	6.30E-05	9150	NP9673763	4.39	1.35E-03
9015	NP9670911	6.31	1.22E-05	9083	NP9672456	2.18	5.81E-03	9151	NP9673772	2.53	1.72E-03
9016	NP9670917	4.32	6.24E-03	9084	NP9672461	4.73	1.98E-03	9152	NP9673781	2.56	2.28E-01
9017	NP9670972	4.39	1.29E-02	9085	NP9672470	5.44	4.03E-03	9153	NP9673811	6.90	1.75E-03
9018	NP9670979	4.37	3.46E-03	9086	NP9672543	1.93	8.07E-03	9154	NP9673833	2.15	1.85E-01
9019	NP9671035	3.14	3.63E-02	9087	NP9672546	2.64	3.13E-02	9155	NP9673850	5.82	9.71E-04
9020	NP9671041	3.62	1.01E-02	9088	NP9672653	5.00	7.79E-05	9156	NP9673855	2.78	1.32E-02
9021	NP9671049	4.61	1.75E-03	9089	NP9672688	1.85	9.29E-02	9157	NP9673866	3.08	2.36E-02
9022	NP9671136	3.95	1.21E-04	9090	NP9672701	3.41	3.03E-03	9158	NP9673893	4.50	2.94E-03
9023	NP9671185	4.24	1.40E-02	9091	NP9672709	3.93	6.68E-03	9159	NP9673948	2.00	3.26E-03
9024	NP9671203	4.12	9.86E-03	9092	NP9672718	1.65	1.86E-03	9160	NP9674001	3.05	5.97E-02
9025	NP9671218	4.60	3.53E-02	9093	NP9672722	4.19	3.35E-03	9161	NP9674009	5.38	2.17E-03
9026	NP9671242	7.06	6.73E-04	9094	NP9672752	4.70	4.41E-04	9162	NP9674025	3.64	1.48E-02
9027	NP9671243	1.09	3.30E-02	9095	NP9672766	2.86	2.13E-03	9163	NP9674029	2.57	7.53E-03
9028	NP9671266	5.78	1.28E-03	9096	NP9672828	4.71	2.77E-03	9164	NP9674039	6.34	4.31E-04
9029	NP9671285	2.60	5.59E-03	9097	NP9672830	7.34	5.39E-03	9165	NP9674045	2.27	5.11E-03
9030	NP9671301	4.34	3.46E-03	9098	NP9672840	5.55	5.31E-03	9166	NP9674056	2.11	7.03E-03
9031	NP9671324	4.87	6.09E-03	9099	NP9672861	4.22	3.83E-03	9167	NP9674057	2.73	2.11E-02
9032	NP9671337	3.21	2.23E-02	9100	NP9672867	2.66	3.85E-03	9168	NP9674083	2.48	9.89E-03
9033	NP9671345	2.34	7.50E-04	9101	NP9672870	4.24	1.27E-02	9169	NP9674085	4.03	4.07E-03
9034	NP9671403	1.97	2.19E-02	9102	NP9672879	4.37	5.08E-04	9170	NP9674086	6.29	2.29E-03
9035	NP9671405	3.93	1.38E-01	9103	NP9672959	4.25	4.88E-03	9171	NP9674143	2.60	1.87E-03
9036	NP9671429	6.06	5.13E-03	9104	NP9672963	1.65	5.98E-02	9172	NP9674172	2.38	1.16E-02
9037	NP9671431	2.94	2.13E-02	9105	NP9672964	3.08	4.99E-03	9173	NP9674176	4.05	8.51E-03
9038	NP9671472	2.63	1.45E-03	9106	NP9672998	8.34	2.15E-06	9174	NP9674186	6.88	8.26E-05
9039	NP9671515	5.31	4.54E-03	9107	NP9673009	1.37	1.88E-02	9175	NP9674193	5.09	9.80E-04
9040	NP9671521	3.31	9.96E-03	9108	NP9673017	4.26	7.62E-04	9176	NP9674206	2.25	1.57E-02
9041	NP9671566	2.42	1.45E-03	9109	NP9673018	2.49	1.02E-02	9177	NP9674209	3.66	6.97E-03
9042	NP9671572	3.19	2.49E-02	9110	NP9673021	3.64	1.13E-06	9178	NP9674247	3.84	4.89E-03
9043	NP9671634	1.40	1.72E-02	9111	NP9673024	7.07	1.16E-04	9179	NP9674260	1.89	1.05E-02

9180	NP9674309	2.81	7.56E-03	9248	NP9675499	1.66	2.44E-02	9316	NP9676786	2.05	1.21E-02
9181	NP9674340	2.51	3.53E-02	9249	NP9675511	4.95	6.31E-04	9317	NP9676788	2.06	2.68E-02
9182	NP9674360	2.08	4.07E-02	9250	NP9675515	5.67	7.42E-04	9318	NP9676790	3.44	4.30E-03
9183	NP9674379	3.24	9.91E-03	9251	NP9675533	6.03	3.37E-03	9319	NP9676796	3.48	6.86E-03
9184	NP9674383	5.97	2.36E-04	9252	NP9675608	6.40	5.72E-03	9320	NP9676800	6.38	4.89E-05
9185	NP9674405	2.60	3.69E-03	9253	NP9675645	2.75	7.27E-05	9321	NP9676820	2.64	7.04E-04
9186	NP9674416	4.30	1.08E-02	9254	NP9675663	6.24	4.94E-04	9322	NP9676824	4.20	1.28E-03
9187	NP9674421	3.10	1.12E-03	9255	NP9675677	3.88	2.91E-03	9323	NP9676842	2.09	2.54E-03
9188	NP9674477	5.08	2.24E-03	9256	NP9675716	4.03	2.16E-02	9324	NP9676858	3.96	3.56E-04
9189	NP9674497	5.61	4.62E-04	9257	NP9675730	5.92	5.99E-03	9325	NP9676896	3.12	9.23E-03
9190	NP9674524	2.19	1.43E-02	9258	NP9675760	2.81	7.76E-02	9326	NP9676958	4.87	3.72E-04
9191	NP9674526	2.50	2.80E-03	9259	NP9675767	3.30	3.12E-02	9327	NP9676970	3.43	3.03E-03
9192	NP9674556	5.58	1.93E-02	9260	NP9675781	2.02	2.97E-02	9328	NP9676975	5.48	7.17E-03
9193	NP9674562	1.96	1.76E-02	9261	NP9675782	3.16	1.46E-02	9329	NP9676989	6.88	2.00E-03
9194	NP9674605	2.33	5.89E-03	9262	NP9675783	4.26	2.09E-04	9330	NP9676993	6.96	1.11E-02
9195	NP9674632	6.17	4.51E-05	9263	NP9675784	5.41	1.31E-03	9331	NP9677003	1.88	3.91E-04
9196	NP9674646	3.45	3.12E-02	9264	NP9675795	1.43	1.32E-02	9332	NP9677005	2.15	3.95E-02
9197	NP9674712	5.16	4.74E-03	9265	NP9675799	1.91	2.43E-02	9333	NP9677018	3.93	5.93E-03
9198	NP9674725	6.63	1.56E-04	9266	NP9675879	2.73	8.17E-04	9334	NP9677021	4.69	4.77E-03
9199	NP9674730	3.94	1.23E-03	9267	NP9675904	5.17	7.54E-03	9335	NP9677036	1.72	2.13E-03
9200	NP9674735	3.18	3.46E-03	9268	NP9675909	2.59	7.32E-03	9336	NP9677049	2.28	1.18E-03
9201	NP9674742	5.45	6.89E-04	9269	NP9675916	3.21	1.06E-02	9337	NP9677120	1.66	5.35E-02
9202	NP9674748	1.31	2.83E-03	9270	NP9675929	4.18	7.36E-05	9338	NP9677130	4.20	3.58E-03
9203	NP9674762	6.14	4.25E-04	9271	NP9675951	4.07	8.88E-03	9339	NP9677149	5.79	2.86E-03
9204	NP9674776	6.03	2.14E-03	9272	NP9675956	3.35	4.34E-03	9340	NP9677154	1.01	1.50E-03
9205	NP9674794	4.51	5.02E-03	9273	NP9676003	2.73	3.50E-03	9341	NP9677169	3.78	1.57E-03
9206	NP9674795	3.75	1.21E-02	9274	NP9676007	2.49	8.47E-03	9342	NP9677187	4.38	8.31E-04
9207	NP9674796	2.86	6.10E-03	9275	NP9676028	4.94	1.59E-02	9343	NP9677195	6.63	1.83E-04
9208	NP9674807	4.14	1.52E-03	9276	NP9676059	4.08	3.25E-03	9344	NP9677219	5.42	5.78E-03
9209	NP9674818	4.45	5.06E-03	9277	NP9676064	6.41	1.77E-03	9345	NP9677223	4.05	3.06E-03
9210	NP9674852	4.96	1.10E-02	9278	NP9676083	5.22	3.63E-02	9346	NP9677237	5.26	3.51E-04
9211	NP9674856	2.53	1.34E-02	9279	NP9676087	4.81	2.45E-03	9347	NP9677265	6.29	6.98E-04
9212	NP9674874	2.09	7.72E-02	9280	NP9676093	6.72	1.83E-03	9348	NP9677269	3.21	2.74E-03
9213	NP9674893	3.39	2.43E-04	9281	NP9676123	2.25	1.44E-02	9349	NP9677274	1.95	1.02E-03
9214	NP9674898	3.17	3.18E-04	9282	NP9676143	4.50	2.50E-03	9350	NP9677303	6.92	2.40E-04
9215	NP9674919	5.60	2.32E-03	9283	NP9676146	3.36	4.61E-04	9351	NP9677390	2.29	3.92E-02
9216	NP9674926	4.75	1.89E-03	9284	NP9676169	3.05	2.01E-03	9352	NP9677462	3.22	2.25E-03
9217	NP9674927	4.64	1.63E-03	9285	NP9676176	4.37	5.07E-04	9353	NP9677470	1.43	8.36E-02
9218	NP9674933	6.43	2.47E-04	9286	NP9676185	2.73	1.06E-01	9354	NP9677475	2.73	1.09E-02
9219	NP9674951	4.54	1.20E-02	9287	NP9676186	4.05	1.74E-02	9355	NP9677477	3.11	2.07E-03
9220	NP9674955	1.21	6.85E-04	9288	NP9676188	2.74	1.45E-02	9356	NP9677502	2.18	2.12E-02
9221	NP9674969	5.08	2.96E-04	9289	NP9676191	3.34	3.35E-03	9357	NP9677524	2.74	2.64E-02
9222	NP9674999	6.79	2.35E-03	9290	NP9676192	1.73	5.51E-02	9358	NP9677565	3.13	2.96E-02
9223	NP9675021	4.47	1.91E-03	9291	NP9676203	3.18	6.62E-03	9359	NP9677569	2.26	1.65E-02
9224	NP9675059	6.22	5.54E-03	9292	NP9676217	4.89	1.75E-03	9360	NP9677582	4.13	4.28E-03
9225	NP9675083	3.49	1.81E-02	9293	NP9676240	2.80	4.58E-03	9361	NP9677599	4.92	2.05E-03
9226	NP9675091	5.79	3.84E-03	9294	NP9676314	2.98	1.08E-03	9362	NP9677658	4.69	3.98E-03
9227	NP9675097	3.67	1.57E-04	9295	NP9676323	4.52	3.40E-04	9363	NP9677693	6.33	7.80E-04
9228	NP9675187	4.52	7.40E-03	9296	NP9676342	2.08	7.27E-02	9364	NP9677702	5.75	3.70E-02
9229	NP9675193	5.30	1.35E-03	9297	NP9676360	4.42	3.26E-04	9365	NP9677712	3.91	6.78E-03
9230	NP9675209	3.29	7.76E-02	9298	NP9676388	4.38	3.83E-03	9366	NP9677720	2.15	2.85E-02
9231	NP9675216	3.77	9.72E-03	9299	NP9676390	1.48	1.61E-02	9367	NP9677742	4.60	3.07E-03
9232	NP9675233	3.64	9.30E-04	9300	NP9676401	4.86	5.45E-03	9368	NP9677759	5.50	8.19E-04
9233	NP9675258	6.52	8.36E-04	9301	NP9676425	3.52	1.04E-03	9369	NP9677814	4.93	9.21E-04
9234	NP9675270	4.72	6.83E-04	9302	NP9676449	1.61	9.70E-02	9370	NP9677903	3.96	6.39E-02
9235	NP9675279	4.88	4.42E-03	9303	NP9676464	4.89	1.99E-03	9371	NP9677904	4.23	3.96E-03
9236	NP9675286	1.77	5.02E-02	9304	NP9676499	5.44	1.30E-02	9372	NP9677910	7.97	7.76E-04
9237	NP9675305	3.01	8.42E-04	9305	NP9676525	1.95	1.26E-01	9373	NP9677937	1.63	2.96E-02
9238	NP9675309	1.38	6.14E-02	9306	NP9676534	4.09	1.10E-02	9374	NP9677950	6.16	4.61E-04
9239	NP9675326	1.98	1.15E-03	9307	NP9676540	7.18	2.80E-04	9375	NP9677953	5.28	1.13E-03
9240	NP9675355	3.72	2.66E-03	9308	NP9676568	3.98	1.09E-02	9376	NP9677964	5.10	1.27E-03
9241	NP9675366	2.89	3.57E-03	9309	NP9676600	2.25	2.73E-03	9377	NP9677976	3.38	7.80E-03
9242	NP9675388	3.14	4.14E-03	9310	NP9676602	4.56	3.87E-03	9378	NP9678013	3.69	5.24E-04
9243	NP9675414	6.30	4.07E-04	9311	NP9676666	5.52	5.91E-04	9379	NP9678017	2.53	2.88E-03
9244	NP9675415	3.45	3.55E-03	9312	NP9676701	2.16	7.53E-03	9380	NP9678033	3.93	9.67E-03
9245	NP9675434	2.32	5.62E-04	9313	NP9676731	4.46	7.49E-04	9381	NP9678039	5.40	3.72E-04
9246	NP9675452	1.96	2.31E-02	9314	NP9676732	4.81	6.64E-03	9382	NP9678051	2.44	2.63E-02
9247	NP9675459	4.71	7.73E-04	9315	NP9676739	6.16	3.56E-04	9383	NP9678059	5.09	3.86E-04

9384	NP9678062	4.55	1.18E-01	9452	NP9679433	3.13	2.63E-03	9520	NP9680618	1.64	3.70E-02
9385	NP9678084	4.10	2.60E-03	9453	NP9679446	4.46	2.19E-02	9521	NP9680625	4.65	1.31E-03
9386	NP9678112	1.77	4.93E-03	9454	NP9679447	1.99	7.84E-03	9522	NP9680643	4.52	3.01E-04
9387	NP9678124	1.79	2.08E-02	9455	NP9679455	2.57	3.50E-03	9523	NP9680772	2.48	1.44E-03
9388	NP9678149	4.73	1.88E-03	9456	NP9679457	4.13	1.48E-03	9524	NP9680838	3.64	6.93E-03
9389	NP9678217	5.89	2.28E-03	9457	NP9679463	7.15	7.96E-04	9525	NPAS2	2.15	6.33E-03
9390	NP9678234	4.56	3.34E-03	9458	NP9679482	2.27	3.17E-02	9526	NPAS3	5.33	3.94E-04
9391	NP9678268	2.42	5.39E-03	9459	NP9679497	3.91	1.15E-03	9527	NPBWR1	7.58	2.23E-03
9392	NP9678283	3.37	2.29E-02	9460	NP9679506	2.46	2.80E-03	9528	NPDC1	2.16	5.95E-03
9393	NP9678292	2.12	1.05E-03	9461	NP9679507	5.49	8.35E-04	9529	NPFFR2	5.97	7.91E-05
9394	NP9678364	3.88	3.04E-03	9462	NP9679566	5.07	1.90E-04	9530	NPHP4	2.58	3.56E-03
9395	NP9678373	1.56	3.29E-02	9463	NP9679595	10.35	6.81E-04	9531	NPM3	3.13	4.48E-03
9396	NP9678376	5.71	4.68E-03	9464	NP9679598	10.59	2.52E-03	9532	NPPB	3.30	5.57E-03
9397	NP9678401	3.11	2.49E-02	9465	NP9679601	1.38	4.09E-03	9533	NPPC	3.25	4.23E-03
9398	NP9678402	3.75	2.89E-02	9466	NP9679611	6.16	6.75E-04	9534	NPSR1	2.43	1.34E-02
9399	NP9678405	4.11	5.30E-04	9467	NP9679628	4.73	1.26E-04	9535	NPTX2	1.22	7.95E-03
9400	NP9678525	7.07	2.78E-03	9468	NP9679649	2.37	2.73E-03	9536	NPTXR	3.23	3.75E-03
9401	NP9678534	6.66	5.41E-03	9469	NP9679655	1.53	3.43E-04	9537	NPVF	3.62	7.33E-03
9402	NP9678541	3.96	1.49E-03	9470	NP9679670	4.84	1.44E-03	9538	NPY2R	6.85	1.99E-04
9403	NP9678562	4.32	4.75E-04	9471	NP9679681	3.44	1.24E-02	9539	NPY5R	1.61	1.14E-02
9404	NP9678572	2.67	1.02E-02	9472	NP9679704	4.08	5.69E-04	9540	NPY6R	2.11	8.60E-04
9405	NP9678587	1.87	1.18E-02	9473	NP9679744	6.18	5.06E-03	9541	NPY7R	2.82	1.60E-03
9406	NP9678613	3.13	2.55E-03	9474	NP9679771	3.19	7.57E-03	9542	NQO1	1.48	7.94E-02
9407	NP9678627	3.89	2.55E-04	9475	NP9679772	4.55	7.88E-03	9543	NR1H4	3.16	3.03E-03
9408	NP9678660	4.26	1.24E-02	9476	NP9679783	5.46	2.00E-03	9544	NR1I3	3.38	8.21E-03
9409	NP9678717	6.25	5.27E-04	9477	NP9679784	5.81	4.39E-05	9545	NR2E3	2.03	4.19E-02
9410	NP9678730	2.69	1.44E-03	9478	NP9679801	5.62	4.80E-03	9546	NR3C1	3.03	1.40E-04
9411	NP9678732	3.51	1.70E-02	9479	NP9679824	6.36	7.66E-02	9547	NR3C2	2.36	2.48E-02
9412	NP9678742	5.66	2.17E-03	9480	NP9679861	1.96	1.69E-03	9548	NR4A2	3.91	1.11E-02
9413	NP9678746	4.41	2.82E-02	9481	NP9679875	5.34	2.90E-04	9549	NRAP	3.99	6.40E-03
9414	NP9678769	4.85	5.60E-04	9482	NP9679899	1.56	1.91E-03	9550	NRG1	3.56	3.19E-05
9415	NP9678793	3.15	8.28E-03	9483	NP9679904	3.35	3.30E-02	9551	NRIP3	5.02	5.97E-03
9416	NP9678807	2.33	1.36E-02	9484	NP9679923	1.23	2.69E-03	9552	NRN1	6.66	2.19E-03
9417	NP9678814	1.68	1.02E-01	9485	NP9679942	3.20	4.14E-03	9553	NRP1	1.33	7.30E-02
9418	NP9678820	1.80	2.98E-03	9486	NP9679962	4.38	1.70E-03	9554	NRP2	4.15	5.85E-04
9419	NP9678829	2.69	1.67E-03	9487	NP9679993	2.29	1.25E-02	9555	NRTN	3.14	2.96E-02
9420	NP9678870	4.40	2.31E-03	9488	NP9680050	3.09	8.40E-03	9556	NSD1	2.70	3.61E-03
9421	NP9678904	6.89	8.66E-04	9489	NP9680151	2.85	1.04E-03	9557	NTSC1A	2.63	1.16E-02
9422	NP9678953	2.78	1.63E-02	9490	NP9680195	3.11	1.77E-03	9558	NTSDC3	1.15	1.23E-02
9423	NP9678964	6.81	1.71E-04	9491	NP9680311	2.81	1.06E-03	9559	NTF3	1.71	9.13E-03
9424	NP9679007	3.86	3.58E-03	9492	NP9680344	2.96	2.57E-02	9560	NTN1	3.86	1.81E-03
9425	NP9679071	6.17	3.38E-03	9493	NP9680352	3.46	1.85E-01	9561	NTNG1	1.46	1.50E-02
9426	NP9679081	3.03	7.41E-03	9494	NP9680357	3.00	5.58E-03	9562	NTRK1	4.83	1.05E-03
9427	NP9679091	4.09	7.65E-03	9495	NP9680378	5.53	3.35E-03	9563	NTRK3	1.40	5.87E-03
9428	NP9679099	8.27	8.72E-03	9496	NP9680381	5.10	1.30E-03	9564	NTS	5.26	5.57E-04
9429	NP9679115	2.71	1.41E-01	9497	NP9680397	7.01	1.01E-03	9565	NUAK1	4.85	8.50E-03
9430	NP9679179	2.52	4.46E-03	9498	NP9680400	3.80	1.10E-02	9566	NUAK2	2.30	3.26E-03
9431	NP9679186	1.50	2.35E-03	9499	NP9680407	2.59	3.00E-05	9567	NUDT3	1.05	8.34E-03
9432	NP9679194	4.32	2.34E-03	9500	NP9680436	5.54	3.10E-03	9568	NUFIP2	1.21	4.39E-03
9433	NP9679206	3.00	1.61E-02	9501	NP9680441	3.93	1.29E-03	9569	NUMA1	2.62	3.11E-03
9434	NP9679227	7.04	2.07E-05	9502	NP9680462	3.48	2.67E-03	9570	NXN	1.56	1.59E-02
9435	NP9679228	3.86	7.85E-03	9503	NP9680478	6.83	9.20E-03	9571	NXNL1	4.29	2.31E-03
9436	NP9679233	3.89	3.41E-03	9504	NP9680484	3.36	3.89E-03	9572	NXNL2	1.66	1.70E-03
9437	NP9679240	6.67	2.16E-03	9505	NP9680489	3.64	1.62E-02	9573	NXPB1	1.43	2.08E-02
9438	NP9679241	4.37	7.82E-04	9506	NP9680495	6.96	1.12E-06	9574	NXPB3	5.91	2.02E-03
9439	NP9679246	4.53	1.40E-02	9507	NP9680498	3.02	2.48E-03	9575	NYX	4.58	4.57E-03
9440	NP9679276	5.65	2.37E-03	9508	NP9680515	4.25	1.90E-04	9576	OASL	2.19	1.83E-02
9441	NP9679288	9.09	2.70E-03	9509	NP9680518	2.11	1.82E-02	9577	OC3	3.24	7.98E-04
9442	NP9679312	4.49	7.49E-04	9510	NP9680519	2.04	1.77E-02	9578	OC90	4.30	9.73E-04
9443	NP9679319	3.18	9.87E-03	9511	NP9680568	1.68	7.49E-02	9579	OCM	5.98	1.53E-03
9444	NP9679352	5.81	1.21E-03	9512	NP9680577	3.98	6.56E-04	9580	ODZ1	2.83	2.26E-03
9445	NP9679369	4.03	2.18E-03	9513	NP9680580	4.09	1.32E-04	9581	ODZ4	3.17	2.05E-03
9446	NP9679391	3.15	2.23E-03	9514	NP9680582	6.63	2.29E-03	9582	OGFOD1	1.39	3.83E-03
9447	NP9679411	7.54	1.32E-03	9515	NP9680590	7.87	1.89E-03	9583	OGFR	1.43	1.77E-02
9448	NP9679412	7.69	1.00E-03	9516	NP9680591	9.41	6.36E-03	9584	OGG1	4.88	4.16E-04
9449	NP9679415	4.07	9.53E-06	9517	NP9680606	6.38	3.58E-05	9585	OGN	1.53	1.24E-02
9450	NP9679423	5.00	2.42E-02	9518	NP9680615	4.48	5.79E-03	9586	OIT3	2.15	3.32E-03
9451	NP9679427	6.40	6.11E-04	9519	NP9680616	5.29	1.01E-03	9587	OLFM1	2.61	1.29E-02

9588	OLFM4	5.10	5.22E-04	9656	PARK2	1.99	9.23E-02	9724	PIGH	1.54	5.87E-03
9589	OLFML2B	2.13	4.14E-03	9657	PARM1	1.82	1.16E-02	9725	PIGO	3.18	1.75E-03
9590	OLIG3	4.17	1.31E-02	9658	PARP3	1.83	1.40E-02	9726	PIGR	4.63	1.33E-02
9591	OPCML	1.75	1.73E-02	9659	PAX2	5.27	7.72E-03	9727	PIGU	2.21	4.41E-04
9592	OPN1LW	4.61	2.96E-04	9660	PAX3	2.55	9.43E-03	9728	PIK3CG	2.66	7.84E-04
9593	OPN3	1.83	7.90E-03	9661	PAX5	3.52	1.77E-03	9729	PIK3R2	1.61	9.71E-03
9594	OPN4	4.73	1.76E-03	9662	PAX6	7.44	2.54E-03	9730	PIK3R5	1.44	3.92E-02
9595	OPRD1	4.98	5.97E-02	9663	PAX7	1.91	1.09E-02	9731	PIK3R6	2.66	6.17E-04
9596	OPRK1	3.80	2.86E-03	9664	PAX9	1.95	5.19E-03	9732	PIPSK1A	2.06	5.37E-03
9597	OPRL1	2.93	8.86E-03	9665	PBX4	1.41	9.48E-04	9733	PIT 54	5.92	1.20E-03
9598	OPRM1	6.62	7.27E-03	9666	PCBP3	1.25	6.85E-03	9734	PITX1	7.61	8.22E-04
9599	OPTC	3.63	7.10E-04	9667	PCDH1	3.72	2.00E-03	9735	PITX3	4.45	3.05E-03
9600	OR10A7	7.72	5.80E-03	9668	PCDH10	1.44	8.82E-03	9736	PKD1	4.59	3.84E-03
9601	OR12D2	6.91	8.98E-05	9669	PCDH12	2.89	3.53E-02	9737	PKD2L1	4.45	1.54E-02
9602	OR51M1	5.11	6.52E-03	9670	PCDH17	2.18	3.93E-03	9738	PKHD1	1.51	4.45E-02
9603	OR52R1	4.62	6.82E-04	9671	PCDH19	2.53	1.08E-02	9739	PKIA	1.93	2.05E-02
9604	OR6B3	3.55	7.63E-03	9672	PCDH7	4.70	9.01E-03	9740	PKN3	6.37	1.93E-03
9605	OR8D4	5.41	3.32E-04	9673	PCDH8	3.13	1.00E-03	9741	PKP1	1.16	6.69E-03
9606	OR9Q1	5.97	3.92E-03	9674	PCDH9	2.00	2.56E-02	9742	PLA1A	1.46	9.29E-03
9607	ORMDL3	1.29	4.39E-03	9675	PCDH43	4.20	8.85E-04	9743	PLA2G12A	2.33	3.69E-03
9608	OSBP2	2.81	4.15E-02	9676	PCDHAC2	5.16	2.54E-04	9744	PLA2G12B	4.22	2.31E-03
9609	OSMR	1.43	1.42E-03	9677	PCDH84	7.22	5.81E-04	9745	PLA2G15	1.11	1.51E-02
9610	OSR1	6.31	2.94E-03	9678	PCIF1	1.75	1.40E-02	9746	PLA2G2A	2.62	3.39E-02
9611	OSR2	2.69	1.01E-02	9679	PCK1	3.02	1.34E-02	9747	PLA2G2E	2.24	1.76E-02
9612	OSTN	1.44	1.45E-01	9680	PCK2	2.28	2.80E-02	9748	PLA2G4E	3.94	1.48E-03
9613	OTOF	3.28	2.71E-03	9681	PCLO	1.17	3.43E-02	9749	PLA2G5	4.95	7.40E-03
9614	OTOL1	3.93	5.16E-03	9682	PCMTD2	1.46	1.13E-02	9750	PLA2G6	3.20	4.42E-03
9615	OTOP2	4.19	1.68E-04	9683	PCSK2	3.98	1.23E-03	9751	PLAC9	2.63	8.64E-02
9616	OTOP3	5.82	1.55E-02	9684	PCSK6	1.52	1.73E-03	9752	PLAG1	3.19	3.63E-03
9617	OTOR	3.46	4.90E-03	9685	PCSK9	2.87	2.82E-02	9753	PLAGL1	2.21	1.04E-02
9618	OTP	4.18	3.57E-03	9686	PCX	3.01	3.07E-03	9754	PLAT	1.23	1.02E-02
9619	OTUD7A	1.56	7.13E-02	9687	PDC	6.24	7.19E-04	9755	PLCD1	1.93	1.09E-01
9620	OTX2	7.44	2.71E-03	9688	PDCD1	2.15	1.49E-02	9756	PLCH1	1.91	2.51E-03
9621	OXGR1	3.16	4.25E-05	9689	PDE1A	2.07	1.09E-02	9757	PLCL2	2.17	6.86E-04
9622	OXTR	2.71	4.99E-03	9690	PDE3A	5.01	5.88E-04	9758	PLCXD1	4.23	3.39E-03
9623	P2Z	4.90	2.94E-04	9691	PDE4A	1.96	1.20E-03	9759	PLD4	4.43	1.21E-02
9624	P2RX3	3.93	2.63E-03	9692	PDE6B	3.69	7.85E-03	9760	PLEK2	1.69	2.47E-02
9625	P2RX7	5.23	6.60E-04	9693	PDE6H	5.30	8.44E-04	9761	PLEKHA2	3.27	3.30E-03
9626	P2RY1	6.72	3.29E-03	9694	PDE7B	2.16	5.75E-03	9762	PLEKHA7	1.70	4.81E-03
9627	P2RY10	5.71	6.23E-03	9695	PDE8B	2.40	4.66E-03	9763	PLEKHF1	3.89	1.13E-02
9628	P2RY14	3.77	8.94E-03	9696	PDE9A	1.54	9.60E-03	9764	PLEKHG1	3.02	1.38E-03
9629	P2RY2	5.11	1.72E-03	9697	PDGFB	2.69	5.39E-02	9765	PLEKHG5	4.24	1.50E-05
9630	P2RY6	5.57	3.05E-03	9698	PDGFC	2.02	8.65E-03	9766	PLEKHG7	2.05	8.79E-03
9631	P2RY8	5.28	3.75E-03	9699	PDGFRA	1.77	1.99E-02	9767	PLEKHH2	3.56	4.77E-02
9632	P4HA3	4.33	3.91E-03	9700	PDGFRB	3.97	2.16E-03	9768	PLEKHM2	2.24	4.84E-03
9633	PABPC1L	2.78	2.56E-03	9701	PDPN	1.48	1.88E-02	9769	PLEKHO2	3.62	2.04E-02
9634	PABPN1	1.71	8.97E-02	9702	PDPR	2.35	2.58E-02	9770	PLG	2.32	6.11E-03
9635	PACS1	2.48	5.05E-03	9703	PDX1	2.89	8.98E-03	9771	PLIN1	3.72	8.16E-04
9636	PACSIN1	4.14	2.31E-02	9704	PDZK1IP1	2.14	3.75E-03	9772	PLIN3	4.49	6.25E-03
9637	PADI2	3.38	9.01E-04	9705	PDZRN4	2.34	7.40E-03	9773	PLK2	7.35	6.22E-03
9638	PADI3	1.25	1.25E-02	9706	PEMT	2.37	5.22E-02	9774	PLK3	2.00	6.13E-03
9639	PAG1	2.35	9.52E-03	9707	PERP	2.85	4.72E-03	9775	PLLP	2.61	3.41E-03
9640	PAH	1.64	1.67E-02	9708	PFKFB2	1.56	4.04E-02	9776	PLN	3.12	6.50E-03
9641	PAK6	2.39	3.15E-03	9709	PFKL	1.40	6.47E-03	9777	PLXNA1	2.83	2.03E-02
9642	PAK7	2.43	9.55E-03	9710	PGLYRP2	4.27	5.42E-03	9778	PLXND1	3.83	6.82E-04
9643	PALD1	1.15	4.67E-02	9711	PGM3	1.97	1.43E-02	9779	PM5	4.70	2.37E-03
9644	PALM	1.73	2.75E-03	9712	PHFX	4.76	1.65E-04	9780	PMCH	4.01	1.33E-02
9645	PALMD	2.07	4.37E-04	9713	PHF12	5.47	6.09E-03	9781	PMEL	3.72	5.26E-03
9646	PAMR1	2.99	1.35E-03	9714	PHF16	1.58	1.62E-02	9782	PML	5.08	1.29E-04
9647	PANX1	1.28	2.24E-02	9715	PHGDH	2.66	1.09E-02	9783	PMM1	3.05	3.61E-04
9648	PANX2	3.12	1.04E-03	9716	PHLDA2	2.02	1.98E-02	9784	PMP2	3.68	2.10E-03
9649	PANX3	2.65	4.56E-03	9717	PHOX2A	5.29	1.86E-02	9785	PNAT10	2.07	4.22E-02
9650	PAPD4	2.69	1.18E-02	9718	PHOX2B	4.66	2.41E-02	9786	PNAT3	3.38	5.03E-04
9651	PAPPA	1.71	9.25E-03	9719	PI15	4.93	2.61E-02	9787	PNKD	5.52	7.42E-04
9652	PAPPA2	7.02	8.77E-03	9720	PI16	2.01	1.75E-03	9788	PNLIP	3.77	3.09E-03
9653	PAPSS2	2.38	1.54E-03	9721	PI4K2A	2.30	8.75E-03	9789	PNOC	4.24	5.28E-03
9654	PAQR5	3.05	1.86E-03	9722	PI4KB	2.32	8.46E-04	9790	PNPLA1	2.88	5.09E-03
9655	PARD6G	2.90	2.79E-03	9723	PIDD	3.37	1.88E-03	9791	PNPLA2	2.98	1.94E-03

9792	PNPLA6	4.50	4.99E-04	9860	PROM1	2.11	3.91E-03	9928	RAMP3	1.30	4.11E-02
9793	PODN	5.38	8.98E-04	9861	PROP1	1.87	3.10E-02	9929	RAP1GAP2	1.12	1.34E-02
9794	POLH	2.60	2.20E-02	9862	PROX1	1.39	1.92E-02	9930	RAP2B	3.95	2.39E-03
9795	POLK	1.18	5.41E-03	9863	PROZ	4.22	8.85E-04	9931	RARA	2.95	7.06E-03
9796	POLR1B	1.61	5.10E-03	9864	PRPH2	1.53	3.65E-03	9932	RAR-GAMMA2	3.03	6.17E-03
9797	POLR3C	4.25	5.67E-03	9865	PRR16	5.62	1.10E-02	9933	RARRES2	1.52	7.34E-03
9798	POM121	2.41	4.41E-03	9866	PRRSL	4.13	5.47E-03	9934	RASA4	4.02	3.34E-04
9799	POMC	10.17	3.00E-03	9867	PRRG3	3.45	3.82E-04	9935	RASAL1	2.95	1.05E-03
9800	POMP	3.41	3.39E-03	9868	PRRX1	1.75	6.99E-04	9936	RASD2	4.96	5.45E-05
9801	POMT2	2.87	1.51E-03	9869	PRRX2	6.12	1.14E-03	9937	RASGEF1C	2.57	3.50E-03
9802	POPDC2	2.23	4.24E-03	9870	PRSS2	5.39	1.84E-03	9938	RASL10B	3.60	3.97E-03
9803	POR	1.55	8.39E-03	9871	PRSS23	1.68	1.37E-02	9939	RASL11A	3.90	2.59E-02
9804	POU1F1	1.68	2.91E-04	9872	PRSS3	6.63	6.19E-04	9940	RASL12	1.94	2.80E-02
9805	POU2AF1	5.75	4.40E-02	9873	PRSS56	3.07	1.78E-04	9941	RASSF2	2.75	2.13E-02
9806	POU2F3	3.56	1.19E-02	9874	PRSSL1	5.93	7.90E-03	9942	RASSF5	2.75	5.73E-03
9807	POU3F1	3.00	3.02E-03	9875	PRTFDC1	1.51	4.82E-03	9943	RASSF7	4.62	9.24E-03
9808	POU4F1	4.38	2.57E-03	9876	PRTG	1.96	4.47E-04	9944	RASSF9	1.34	8.32E-03
9809	POU4F2	3.67	1.65E-03	9877	PRUNE	2.32	1.06E-03	9945	RAX	2.01	4.56E-04
9810	POU4F3	6.07	9.37E-03	9878	PSD	3.51	9.31E-03	9946	RBL1	1.71	1.01E-03
9811	POU6F2	3.93	5.35E-03	9879	PSKH1	3.05	2.08E-02	9947	RBM20	3.47	1.05E-02
9812	POUV	3.19	1.00E-03	9880	PSMD11	1.63	1.16E-02	9948	RBM47	3.35	2.55E-03
9813	PPAP2B	1.13	2.08E-02	9881	PSTK	1.39	2.92E-02	9949	RBMS3	3.31	6.59E-03
9814	PPAPDC1A	3.29	5.30E-03	9882	PSTPIP1	3.59	3.69E-03	9950	RBP2	4.88	7.40E-04
9815	PPAPDC3	3.61	1.43E-04	9883	PSTPIP2	3.22	1.46E-03	9951	RBP3	3.52	2.36E-02
9816	PPARGC1A	4.51	2.61E-03	9884	PTAFR	4.64	3.11E-04	9952	RBPJL	1.88	1.41E-02
9817	PPARGC1B	2.82	5.06E-03	9885	PTAR1	1.41	4.23E-02	9953	RCC2	2.16	2.40E-03
9818	PPEF2	2.17	5.06E-03	9886	PTB2P	1.51	2.91E-03	9954	RCOR3	2.51	6.83E-03
9819	PPFIA4	2.87	1.67E-02	9887	PTCH1	4.69	2.28E-04	9955	RCS1D1	1.22	7.31E-03
9820	PPIP5K1	3.41	9.10E-04	9888	PTCH2	3.09	1.23E-02	9956	RDH8	1.65	2.20E-02
9821	PPL	3.45	9.01E-03	9889	PTCHD2	3.70	1.85E-03	9957	REG4	2.42	2.51E-04
9822	PPM1F	1.81	7.69E-03	9890	PTCHD4	4.58	3.48E-03	9958	RELL2	5.43	1.04E-02
9823	PPM1J	3.18	1.84E-03	9891	PTGER2	3.25	8.51E-03	9959	REPS2	2.05	4.06E-04
9824	PPP1R1C	1.97	5.19E-03	9892	PTGER3	2.15	6.16E-04	9960	RET	1.82	1.70E-02
9825	PPP1R3B	3.90	1.37E-03	9893	PTGFR	3.75	2.86E-03	9961	RFWD2	3.76	5.96E-03
9826	PPP1R3C	4.90	1.13E-03	9894	PTGFRN	2.52	5.53E-03	9962	RFX2	1.90	8.64E-03
9827	PPP1R3D	2.57	2.79E-03	9895	PTGS1	4.32	2.84E-04	9963	RFX4	1.40	5.36E-02
9828	PPP2R5D	1.52	6.87E-03	9896	PTGS2	1.52	2.93E-03	9964	RFXAP	2.28	4.88E-04
9829	PPP3CB	1.95	2.86E-02	9897	PTH	5.25	1.32E-03	9965	RFXDC2	5.52	7.14E-04
9830	PPY	3.05	5.09E-03	9898	PTPN22	4.28	1.26E-02	9966	RGMA	4.23	2.68E-03
9831	PPYR1	5.99	1.99E-03	9899	PTPN7	4.31	8.69E-04	9967	RGS17	4.16	4.94E-04
9832	PQLC3	1.06	1.66E-02	9900	PTPN9	1.78	7.72E-03	9968	RGS18	2.08	7.28E-03
9833	PRAM1	1.89	7.26E-03	9901	PTPRF	1.95	3.24E-03	9969	RGS19	2.95	9.06E-04
9834	PRCP	1.58	3.25E-02	9902	PTPRO	2.83	1.15E-02	9970	RGS20	1.36	9.47E-03
9835	PRDM12	4.17	1.06E-03	9903	PTPRR	2.23	2.80E-03	9971	RGS21	2.62	5.05E-03
9836	PRDM6	3.64	2.71E-03	9904	PTPRU	4.15	4.60E-05	9972	RGS5	1.66	1.35E-01
9837	PRDM9	3.98	2.32E-04	9905	PTPRZ1	1.49	2.82E-03	9973	RGSL1	1.17	2.40E-02
9838	PRELP	3.43	5.35E-04	9906	PTX3	2.36	2.31E-02	9974	RHAG	4.39	9.57E-03
9839	PRF1	4.92	1.14E-02	9907	PVALB	1.62	1.93E-02	9975	RHBG	1.50	1.63E-02
9840	PRICKLE1	1.10	4.37E-03	9908	PWWP2A	1.34	6.12E-03	9976	RHO	2.34	3.54E-02
9841	PRICKLE2	4.32	8.06E-03	9909	PXDN	1.18	1.37E-02	9977	RHOH	6.70	1.03E-04
9842	PRIMA1	3.90	1.43E-02	9910	PXDNL	5.51	2.31E-02	9978	RHOV	2.03	1.05E-02
9843	PRKAA2	3.27	2.17E-02	9911	PYROXD2	3.19	8.23E-02	9979	RHOV	3.54	3.03E-03
9844	PRKAG3	5.06	1.55E-02	9912	QRFPR	2.27	1.92E-03	9980	RIC8A	1.62	9.59E-03
9845	PRKCB	2.85	5.92E-03	9913	QSOX1	1.84	4.75E-02	9981	RIMKLB	1.61	1.22E-03
9846	PRKCE	2.82	2.90E-03	9914	RAB26	4.97	1.04E-03	9982	RIMS3	2.71	3.92E-03
9847	PRKCH	1.93	6.35E-02	9915	RAB39B	3.15	1.26E-03	9983	RIMS4	2.93	2.13E-04
9848	PRKD1	2.86	1.25E-02	9916	RAB3C	3.63	1.03E-02	9984	RIPK1	1.18	1.24E-02
9849	PRKDC	1.80	6.80E-04	9917	RAB31L1	2.83	1.10E-03	9985	RIPK2	2.55	3.67E-02
9850	PRKG1	7.69	5.70E-03	9918	RAB40C	2.39	4.17E-03	9986	RIPK4	1.67	1.34E-03
9851	PRKG2	4.31	1.61E-03	9919	RAB43	1.67	3.85E-03	9987	RIPPLY1	3.42	4.01E-03
9852	PRL	4.32	1.03E-02	9920	RAB44	4.88	7.92E-05	9988	RIT2	7.00	1.13E-03
9853	PRLH	2.63	1.40E-01	9921	RAB7L1	2.01	2.54E-03	9989	RLTPR	4.21	2.87E-03
9854	PRLHR	5.17	1.99E-04	9922	RAB9B	4.08	8.71E-04	9990	RMI2	2.25	1.14E-03
9855	PRLHR2	2.13	2.27E-03	9923	RABIF	1.25	1.35E-02	9991	RNASL	3.00	9.61E-04
9856	PRODH	1.50	2.34E-02	9924	RAC2	2.19	2.27E-03	9992	RND2	3.07	3.62E-05
9857	PROK1	2.38	2.67E-03	9925	RAD9A	2.83	2.25E-04	9993	RNF123	2.51	2.24E-03
9858	PROK2	1.45	1.18E-02	9926	RALY	4.03	6.85E-04	9994	RNF165	3.46	7.52E-03
9859	PROKR2	6.35	7.65E-04	9927	RALYL	3.37	1.76E-03	9995	RNF182	3.10	1.70E-04

9996	RNF208	4.65	1.79E-03	10064	SCT	3.25	2.02E-02	10132	SHISA6	1.41	1.23E-01
9997	RNF222	4.49	3.70E-05	10065	SCUBE3	2.78	1.88E-03	10133	SHMT1	2.27	1.26E-02
9998	RNF223	3.75	6.08E-03	10066	SDK2	4.68	2.36E-04	10134	SHOX	6.28	3.57E-03
9999	RNFT2	1.46	4.59E-03	10067	SEBOX	4.85	1.56E-03	10135	SHROOM1	1.37	9.22E-03
10000	RORB	1.43	8.17E-03	10068	SEC16B	1.43	1.57E-02	10136	SHROOM2	2.21	4.19E-03
10001	ROS1	3.93	1.79E-03	10069	SELP	2.41	1.14E-02	10137	SI	3.19	3.48E-03
10002	RPP25	4.67	3.79E-04	10070	SEMA3A	1.68	7.96E-03	10138	SIGIRR	4.97	4.04E-04
10003	RPRML	6.86	7.49E-03	10071	SEMA3B	3.46	3.75E-04	10139	SIGMAR1	3.64	1.21E-03
10004	RPUSD1	4.28	6.79E-03	10072	SEMA3C	1.96	2.39E-03	10140	SIK2	3.07	5.97E-03
10005	RPUSD2	2.71	5.43E-03	10073	SEMA3E	5.07	1.54E-03	10141	SIM1	6.39	2.90E-03
10006	RRH	3.05	3.83E-02	10074	SEMA3F	4.11	1.05E-02	10142	SIM2	3.52	1.85E-03
10007	RRP12	1.84	3.50E-02	10075	SEMA3G	3.63	1.57E-04	10143	SIN3A	1.33	4.67E-06
10008	RSAD2	5.70	3.20E-03	10076	SEMA4G	1.73	3.88E-02	10144	SIRPA	3.37	9.02E-03
10009	RSPO1	4.26	2.95E-02	10077	SEMA5A	1.37	2.62E-04	10145	SIX1	4.95	3.59E-03
10010	RSPO2	2.53	4.22E-02	10078	SEMA5B	1.81	2.53E-02	10146	SIX2	4.89	2.09E-03
10011	RSRC2	8.23	7.99E-04	10079	SEMA6A	2.46	4.55E-03	10147	SIX3	3.58	1.37E-03
10012	RTBDN	1.76	6.18E-03	10080	SEMA6B	4.31	1.35E-03	10148	SIX6	2.17	3.99E-03
10013	RTN4R	3.88	5.99E-03	10081	SEN2	4.41	3.86E-04	10149	SKIDA1	2.19	1.80E-02
10014	RTN4RL1	3.95	6.55E-03	10082	SERGEF	1.66	2.75E-02	10150	SLA	1.17	1.13E-01
10015	RTN4RL2	2.80	1.11E-03	10083	SERINC2	2.29	1.21E-02	10151	SLAIN2	1.67	8.70E-04
10016	RUNX2	6.58	2.26E-03	10084	SERPINA1	6.58	1.22E-02	10152	SLAMP8	5.73	5.57E-03
10017	RUNX3	3.76	2.01E-03	10085	SERPINA10	1.25	2.42E-03	10153	SLC10A2	7.25	2.61E-03
10018	RXFP1	2.57	6.91E-04	10086	SERPINA3	5.66	1.89E-04	10154	SLC10A4	1.52	1.05E-02
10019	RXFP3	7.15	5.53E-04	10087	SERPINA4	5.94	1.96E-05	10155	SLC11A1	3.51	4.62E-04
10020	RXRA	1.50	7.40E-03	10088	SERPINA5	4.73	1.39E-03	10156	SLC11A2	2.28	3.30E-02
10021	RXRG	3.28	9.95E-04	10089	SERPINA9	5.80	7.71E-03	10157	SLC12A9	3.55	9.89E-04
10022	S100A9	3.06	3.95E-02	10090	SERPINB1	2.03	9.44E-03	10158	SLC13A1	2.36	2.67E-04
10023	S100Z	5.17	5.16E-03	10091	SERPINB10	4.22	2.39E-04	10159	SLC13A2	2.84	2.42E-03
10024	S1PR1	3.90	4.83E-04	10092	SERPINB12	4.60	1.10E-03	10160	SLC13A4	6.68	1.63E-03
10025	S1PR3	4.01	2.49E-03	10093	SERPINB14	2.60	6.41E-03	10161	SLC15A2	1.64	5.74E-02
10026	S1PR4	3.45	8.41E-04	10094	SERPINB14B	4.04	2.94E-03	10162	SLC15A4	1.34	1.06E-02
10027	S71050	1.23	3.12E-03	10095	SERPINB2	2.89	1.23E-03	10163	SLC15A5	1.82	1.13E-02
10028	SACS	1.79	1.89E-03	10096	SERPINB5	2.19	1.09E-02	10164	SLC16A10	2.06	5.83E-03
10029	SALL3	3.06	1.52E-02	10097	SERPINBP1	4.49	5.86E-03	10165	SLC16A12	5.60	2.03E-03
10030	SAMD10	3.99	1.32E-03	10098	SERPINC1	5.58	6.25E-04	10166	SLC16A13	6.11	2.62E-03
10031	SAMD5	2.39	2.15E-02	10099	SERPIND1	2.56	5.60E-04	10167	SLC16A2	2.73	2.61E-03
10032	SAMD7	5.15	2.11E-03	10100	SERPING1	1.33	5.07E-02	10168	SLC16A4	3.53	4.46E-04
10033	SAMD9L	3.16	2.88E-03	10101	SERTAD2	1.38	2.54E-02	10169	SLC16A7	1.93	8.67E-03
10034	SAMSN1	1.26	1.19E-02	10102	SESN2	2.20	9.70E-03	10170	SLC16A8	1.90	2.29E-03
10035	SARDH	3.22	5.48E-03	10103	SESN3	1.76	1.13E-02	10171	SLC17A6	7.70	2.15E-03
10036	SARM1	4.03	2.94E-03	10104	SETBP1	4.55	2.12E-03	10172	SLC18A1	3.05	1.01E-02
10037	SASH3	2.83	2.19E-02	10105	SEZ6	3.92	3.38E-02	10173	SLC18A3	6.37	5.95E-03
10038	SATB1	2.99	3.02E-03	10106	SEZ6L	2.39	2.87E-03	10174	SLC19A2	1.91	8.66E-03
10039	SATB2	2.41	6.80E-03	10107	SF11	1.27	1.82E-02	10175	SLC19A3	2.03	5.09E-03
10040	SBF1	1.90	2.12E-03	10108	SFN	5.16	2.20E-03	10176	SLC1A1	3.39	4.63E-04
10041	SBF2	1.46	1.79E-02	10109	SFRP1	2.03	2.40E-03	10177	SLC1A2	2.54	2.25E-03
10042	SBK1	4.62	1.52E-03	10110	SFRP5	2.37	5.57E-02	10178	SLC1A3	4.66	1.48E-03
10043	SBK2	2.64	2.11E-02	10111	SFTP1A1	2.84	5.26E-03	10179	SLC1A6	3.99	1.21E-02
10044	SBN02	1.65	7.54E-03	10112	SGCD	5.50	1.36E-03	10180	SLC20A1	1.24	1.87E-02
10045	SBSN01	1.15	2.65E-02	10113	SGCG	2.57	6.05E-03	10181	SLC22A13	2.63	1.18E-03
10046	SCAMP4	2.72	5.35E-03	10114	SGCZ	5.02	2.92E-04	10182	SLC22A15	5.40	1.78E-03
10047	SCARA5	2.02	8.09E-03	10115	SGIP1	4.49	8.51E-03	10183	SLC22A18	4.24	1.67E-03
10048	SCARB1	2.07	1.60E-03	10116	SGK2	2.63	1.94E-03	10184	SLC22A2	3.02	7.34E-03
10049	SCARF1	10.32	3.25E-03	10117	SGPP1	1.68	4.62E-03	10185	SLC22A3	1.37	1.82E-02
10050	SCD	1.68	1.14E-03	10118	SGPP2	2.07	1.09E-02	10186	SLC22A4	2.99	1.13E-03
10051	SCFD2	2.10	2.37E-03	10119	SGSH	3.12	5.90E-04	10187	SLC23A1	3.00	1.68E-02
10052	SCG2	1.27	7.91E-03	10120	SH2B2	4.56	6.51E-04	10188	SLC23A3	3.78	1.40E-03
10053	SCGN	4.25	8.45E-04	10121	SH3BP1	5.04	9.01E-04	10189	SLC24A2	4.57	1.68E-03
10054	SCIN	1.07	3.54E-04	10122	SH3GL2	2.16	1.11E-02	10190	SLC24A6	1.60	9.55E-03
10055	SCML4	4.04	1.02E-06	10123	SH3PXD2A	1.44	5.83E-03	10191	SLC25A1	1.92	2.63E-02
10056	SCN3A	4.58	4.27E-05	10124	SH3RF1	1.67	7.21E-03	10192	SLC25A10	3.46	1.83E-04
10057	SCN3B	2.18	1.73E-02	10125	SH3RF3	2.96	5.32E-04	10193	SLC25A30	1.48	8.61E-02
10058	SCN4B	2.42	2.13E-03	10126	SH3TC2	6.44	1.43E-04	10194	SLC25A38	2.93	1.07E-02
10059	SCN8A	1.62	3.27E-02	10127	SHB	1.17	1.63E-02	10195	SLC25A47	5.95	2.74E-03
10060	SCNN1B	3.06	2.19E-03	10128	SHC1	1.48	7.88E-03	10196	SLC26A4	1.80	1.49E-03
10061	SCNN1G	2.35	2.35E-02	10129	SHC2	2.43	3.94E-02	10197	SLC26A7	1.73	7.04E-02
10062	SCRG1	4.95	6.05E-04	10130	SHF	1.56	2.40E-04	10198	SLC26A9	3.51	1.43E-03
10063	SCRN2	4.18	4.26E-03	10131	SHH	5.67	1.08E-03	10199	SLC28A2	1.02	5.81E-02

10200	SLC29A1	3.01	5.52E-03	10268	SMCR7L	1.39	1.10E-02	10336	SSTR2	4.15	8.38E-05
10201	SLC29A3	3.35	6.23E-03	10269	SMG5	1.96	1.72E-02	10337	SSTR3	4.97	2.81E-03
10202	SLC29A4	6.45	3.38E-02	10270	SMOX	3.68	3.51E-02	10338	SSTR4	4.26	3.30E-03
10203	SLC2A11	1.46	1.31E-02	10271	SMPD3	4.28	8.91E-03	10339	SSTR5	6.79	5.33E-05
10204	SLC2A2	3.83	1.68E-03	10272	SMPDL3B	2.03	2.78E-02	10340	ST18	3.98	1.95E-03
10205	SLC2A6	5.09	1.71E-03	10273	SMPX	1.99	5.48E-03	10341	ST3GAL4	5.23	1.48E-03
10206	SLC30A2	3.64	1.73E-03	10274	SMUG1	8.04	5.78E-04	10342	ST6GAL2	5.38	1.60E-03
10207	SLC30A8	1.58	2.97E-02	10275	SMURF1	2.78	3.43E-03	10343	ST6GALNAC4	5.82	4.18E-03
10208	SLC31A2	1.70	2.75E-03	10276	SNAI1	3.02	2.93E-03	10344	ST6GALNAC5	1.63	4.54E-03
10209	SLC32A1	5.55	5.97E-03	10277	SNAP25	3.99	2.52E-04	10345	ST8SIA1	2.41	7.02E-04
10210	SLC34A2	1.61	3.25E-03	10278	SNAP91	1.95	1.17E-02	10346	ST8SIA4	2.51	1.04E-02
10211	SLC35A4	5.15	2.98E-03	10279	SNCB	3.58	5.53E-03	10347	ST8SIA5	1.94	1.32E-01
10212	SLC35B2	4.15	8.60E-04	10280	SNCG	1.53	2.85E-02	10348	STAC	2.89	1.43E-03
10213	SLC35D1	2.65	8.72E-03	10281	SND1	4.57	1.77E-02	10349	STAR	2.23	9.89E-02
10214	SLC38A1	1.59	7.81E-07	10282	SNEO1	4.40	7.01E-04	10350	STARD10	5.31	4.68E-04
10215	SLC38A4	5.00	6.58E-05	10283	SNTB2	4.65	1.03E-03	10351	STAT1	1.93	5.00E-03
10216	SLC38A7	2.73	2.77E-04	10284	SNTG1	1.14	2.10E-04	10352	STEAP1	2.27	2.08E-03
10217	SLC39A10	1.15	2.55E-03	10285	SNTG2	2.36	1.59E-03	10353	STEAP2	3.14	7.21E-03
10218	SLC39A11	3.51	5.97E-03	10286	SNTN	2.06	7.60E-05	10354	STEAP3	2.79	1.25E-03
10219	SLC39A14	2.31	8.57E-03	10287	SNX12	1.68	3.17E-02	10355	STEAP4	3.37	2.39E-03
10220	SLC41A1	2.51	3.07E-04	10288	SNX13	2.53	2.59E-05	10356	STK32B	5.64	1.19E-03
10221	SLC41A3	2.00	1.25E-02	10289	SNX18	3.38	8.20E-03	10357	STOML3	4.76	6.00E-03
10222	SLC43A2	2.87	1.28E-02	10290	SNX8	3.81	6.69E-04	10358	STRA6	1.45	1.06E-02
10223	SLC43A3	3.00	1.01E-03	10291	SOC52	1.47	3.56E-05	10359	STRADB	1.65	8.75E-03
10224	SLC45A2	1.56	5.74E-03	10292	SOGA3	1.92	1.25E-03	10360	STS	1.75	2.85E-02
10225	SLC45A3	3.42	2.22E-03	10293	SOHO-1	8.96	4.11E-03	10361	STX11	3.05	1.46E-03
10226	SLC46A1	3.37	6.11E-03	10294	SOIH	5.81	1.72E-03	10362	STX19	1.22	4.03E-04
10227	SLC47A1	2.71	1.40E-03	10295	SON	1.12	2.27E-03	10363	STX1B	4.37	4.93E-03
10228	SLC47A2	4.25	1.46E-04	10296	SORCS3	4.12	2.80E-04	10364	STXBP1	1.98	2.79E-02
10229	SLC4A1	3.54	8.76E-03	10297	SOST	1.82	2.15E-02	10365	SUCNR1	6.26	4.39E-03
10230	SLC4A2	3.12	3.00E-04	10298	SOSTDC1	2.04	2.24E-02	10366	SUGP2	1.72	4.73E-03
10231	SLC4A7	1.39	6.89E-03	10299	SOX1	5.55	8.85E-03	10367	SULT1B1	2.05	3.40E-02
10232	SLC5A1	1.29	4.76E-04	10300	SOX10	1.47	1.85E-03	10368	SULT1C3	3.25	1.07E-01
10233	SLC5A10	3.84	5.04E-05	10301	SOX11	1.69	2.89E-03	10369	SUPT6H	1.26	6.91E-04
10234	SLC5A11	2.98	6.05E-05	10302	SOX14	7.10	3.96E-03	10370	SUP7L	1.38	1.36E-01
10235	SLC5A7	4.53	2.41E-03	10303	SOX17	1.83	1.65E-02	10371	SUSD2	2.10	5.77E-03
10236	SLC5A9	3.20	3.43E-03	10304	SOX18	2.27	7.24E-02	10372	SV2B	1.37	7.96E-03
10237	SLC6A1	2.06	2.28E-03	10305	SOX2	2.81	2.00E-03	10373	SV2C	3.99	2.33E-03
10238	SLC6A15	7.33	1.39E-04	10306	SOX3	5.05	2.07E-03	10374	SVEP1	4.08	5.12E-03
10239	SLC6A4	5.73	3.75E-03	10307	SOX4	2.25	5.65E-03	10375	SVOP1	1.75	6.33E-03
10240	SLC6A5	5.56	1.92E-03	10308	SOX7	3.71	2.79E-02	10376	SYDE2	1.99	1.22E-03
10241	SLC6A6	3.55	7.13E-03	10309	SOX8	2.57	1.29E-02	10377	SYK	1.88	5.02E-03
10242	SLC7A10	6.17	2.96E-03	10310	SPAM1	2.38	1.33E-02	10378	SYN2	1.47	9.07E-02
10243	SLC7A11	5.32	6.55E-03	10311	SPARCL1	4.53	1.37E-03	10379	SYNC	1.86	2.06E-02
10244	SLC7A14	2.47	1.33E-02	10312	SPATA13	3.07	1.72E-04	10380	SYNDIG1	4.38	6.47E-04
10245	SLC7A2	2.48	2.96E-03	10313	SPATA20	3.14	2.72E-02	10381	SYNDIG1L	5.77	3.19E-04
10246	SLC7A3	3.05	2.39E-04	10314	SPDEF	5.20	1.20E-03	10382	SYNJ2	2.59	8.69E-03
10247	SLC7A4	1.91	1.12E-03	10315	SPEG	7.00	4.01E-05	10383	SYNPO2	4.04	2.68E-03
10248	SLC8A1	2.85	4.55E-03	10316	SPG20	1.11	6.60E-04	10384	SYNPR	5.01	2.96E-04
10249	SLC8A3	5.19	6.88E-03	10317	SPHK1	2.40	5.15E-03	10385	SYT1	2.90	2.09E-02
10250	SLC9A1	3.24	8.62E-06	10318	SPI1	4.57	1.44E-04	10386	SYT10	5.79	4.45E-03
10251	SLC9A3	2.99	5.97E-03	10319	SPIC	2.25	1.94E-02	10387	SYT12	3.68	3.16E-03
10252	SLC9A4	3.01	8.62E-03	10320	SPINK7	3.13	7.10E-04	10388	SYT13	1.98	1.27E-02
10253	SLC9A6	2.24	6.87E-04	10321	SPIRE2	3.99	7.26E-04	10389	SYT16	1.54	5.88E-03
10254	SLC9A9	2.38	1.60E-02	10322	SPNS2	1.30	1.94E-02	10390	SYT17	3.60	4.00E-04
10255	SLC01A2	3.00	8.92E-03	10323	SPP1	3.85	9.42E-04	10391	SYT2	5.82	1.45E-04
10256	SLC01B1	2.98	2.78E-03	10324	SPRY2	3.11	7.64E-03	10392	SYT4	7.94	3.41E-03
10257	SLC01C1	4.27	1.97E-02	10325	SPRY3	3.35	5.26E-03	10393	SYT6	3.23	4.21E-03
10258	SLC02A1	2.35	1.67E-03	10326	SPRY4	5.98	2.12E-04	10394	SYT7	5.03	4.60E-03
10259	SLC03A1	1.32	1.85E-02	10327	SPTSSB	3.22	1.05E-02	10395	SYTL1	1.60	3.37E-02
10260	SLC05A1	2.87	1.21E-03	10328	SREBF1	4.77	6.03E-03	10396	SYTL4	1.32	1.31E-05
10261	SLIT2	3.29	9.29E-03	10329	SRGAP3	2.29	9.49E-03	10397	SZT2	2.49	1.86E-02
10262	SLITRK1	6.18	7.19E-04	10330	SRMS	2.96	2.25E-03	10398	TAAR1	5.11	2.19E-04
10263	SLITRK4	4.01	1.26E-02	10331	SRRD	2.59	3.57E-04	10399	TAAR5	6.31	7.84E-04
10264	SMAD5	1.10	3.37E-02	10332	SRRM3	1.82	7.48E-04	10400	TAC1	4.35	1.51E-03
10265	SMAD7	3.03	1.46E-02	10333	SSPN	3.18	6.41E-03	10401	TACR1	3.35	3.51E-03
10266	SMAD7B	2.45	3.29E-02	10334	SSPO	2.31	1.16E-02	10402	TACR2	1.63	8.15E-02
10267	SMAD9	1.35	5.38E-04	10335	SSTR1	5.98	2.29E-04	10403	TAL1	3.74	4.74E-03

10404	TAL2	3.92	4.16E-03	10472	TC378276	2.06	3.88E-03	10540	TC379835	2.38	1.09E-03
10405	TAP1	1.18	2.76E-02	10473	TC378282	1.35	8.15E-03	10541	TC379838	3.39	2.59E-04
10406	TAPBP1	2.74	1.68E-03	10474	TC378300	3.99	3.60E-03	10542	TC379864	2.55	7.42E-03
10407	TAS1R1	2.16	9.13E-03	10475	TC378302	1.81	6.23E-03	10543	TC379886	3.86	2.71E-03
10408	TAS2R7	1.99	1.23E-02	10476	TC378369	3.57	8.50E-03	10544	TC379912	5.08	3.19E-03
10409	TBC1D10A	2.36	9.69E-04	10477	TC378370	2.43	3.87E-04	10545	TC379931	3.43	5.84E-04
10410	TBC1D16	1.21	3.83E-03	10478	TC378392	1.62	1.63E-01	10546	TC379936	4.34	1.28E-03
10411	TBC1D20	2.59	6.93E-04	10479	TC378420	1.20	1.17E-03	10547	TC379944	1.78	3.23E-02
10412	TBC1D30	3.46	1.88E-03	10480	TC378457	3.34	2.05E-03	10548	TC379976	2.39	8.81E-02
10413	TBCEL	3.11	7.13E-03	10481	TC378475	2.92	1.51E-02	10549	TC379990	4.33	1.09E-03
10414	TBX10	3.23	8.69E-03	10482	TC378485	1.89	2.73E-03	10550	TC379991	5.92	1.72E-03
10415	TBX15	5.23	5.64E-03	10483	TC378488	3.69	4.08E-03	10551	TC379993	1.31	2.07E-02
10416	TBX18	1.99	3.03E-02	10484	TC378495	2.19	5.84E-03	10552	TC380057	1.76	3.75E-03
10417	TBX19	3.36	2.73E-02	10485	TC378508	5.63	5.35E-03	10553	TC380101	2.95	3.26E-03
10418	TBX2	3.67	1.14E-03	10486	TC378552	1.47	5.29E-03	10554	TC380107	5.56	4.36E-05
10419	TBX20	4.54	4.11E-03	10487	TC378597	1.18	1.48E-02	10555	TC380108	2.06	9.33E-03
10420	TBX22	4.46	6.32E-02	10488	TC378629	2.78	1.89E-03	10556	TC380134	3.95	6.17E-04
10421	TBX3	3.31	1.53E-03	10489	TC378635	4.83	3.00E-03	10557	TC380141	3.06	1.55E-03
10422	TBX4	6.09	2.26E-04	10490	TC378656	2.77	5.02E-04	10558	TC380154	3.22	2.67E-04
10423	TBX6	3.74	6.92E-03	10491	TC378664	3.92	4.04E-03	10559	TC380171	2.00	2.15E-02
10424	TBXAS1	3.22	7.80E-04	10492	TC378669	2.84	4.68E-02	10560	TC380180	3.86	1.30E-03
10425	TC373795	6.32	1.13E-02	10493	TC378682	2.17	8.50E-03	10561	TC380207	2.16	7.24E-03
10426	TC374008	2.47	8.55E-03	10494	TC378695	6.04	3.59E-03	10562	TC380216	6.72	6.10E-06
10427	TC374201	7.26	1.56E-03	10495	TC378725	4.82	1.69E-03	10563	TC380219	2.58	1.74E-02
10428	TC374259	1.09	1.08E-02	10496	TC378739	4.78	2.76E-03	10564	TC380227	3.69	5.10E-04
10429	TC374302	1.93	3.46E-04	10497	TC378751	3.02	3.38E-03	10565	TC380245	1.74	2.29E-02
10430	TC375081	4.76	9.60E-04	10498	TC378821	2.08	1.90E-02	10566	TC380285	5.27	4.46E-03
10431	TC375871	3.83	1.53E-04	10499	TC378830	6.08	8.00E-04	10567	TC380322	2.75	7.73E-03
10432	TC376542	3.50	1.39E-03	10500	TC378876	2.78	1.08E-02	10568	TC380324	2.92	2.29E-03
10433	TC376555	4.89	5.95E-04	10501	TC378906	1.48	4.63E-03	10569	TC380332	1.05	1.92E-04
10434	TC376560	2.59	5.29E-02	10502	TC378922	2.50	1.27E-02	10570	TC380391	3.64	6.32E-02
10435	TC376878	8.36	1.58E-05	10503	TC378940	2.16	6.72E-03	10571	TC380415	2.11	8.82E-04
10436	TC376885	7.09	2.47E-03	10504	TC378949	2.63	4.82E-03	10572	TC380447	2.41	1.09E-02
10437	TC377007	1.43	6.43E-03	10505	TC378954	3.22	1.96E-03	10573	TC380456	2.19	1.33E-03
10438	TC377104	2.03	1.11E-02	10506	TC378979	4.22	1.64E-02	10574	TC380490	1.38	1.53E-03
10439	TC377318	1.98	1.52E-03	10507	TC379025	4.43	1.71E-03	10575	TC380511	2.82	1.24E-03
10440	TC377321	3.49	4.59E-04	10508	TC379027	1.84	1.23E-04	10576	TC380527	1.45	4.90E-02
10441	TC377357	4.48	2.17E-03	10509	TC379058	6.19	8.10E-05	10577	TC380592	1.45	9.26E-03
10442	TC377373	2.85	1.01E-03	10510	TC379061	5.69	3.27E-03	10578	TC380598	3.48	4.68E-04
10443	TC377379	5.46	4.53E-04	10511	TC379086	4.01	4.24E-03	10579	TC380601	2.76	1.08E-02
10444	TC377389	3.89	5.09E-03	10512	TC379094	4.24	1.24E-04	10580	TC380613	2.14	1.08E-01
10445	TC377401	8.33	6.04E-04	10513	TC379107	1.39	6.48E-03	10581	TC380622	3.24	7.77E-04
10446	TC377509	2.86	1.37E-02	10514	TC379168	2.61	1.20E-01	10582	TC380638	2.99	5.48E-04
10447	TC377747	3.95	7.00E-04	10515	TC379171	2.97	5.26E-03	10583	TC380644	2.65	3.34E-04
10448	TC377764	5.44	4.76E-03	10516	TC379210	3.80	4.25E-03	10584	TC380677	2.74	5.62E-04
10449	TC377769	1.06	8.51E-04	10517	TC379277	1.36	3.67E-02	10585	TC380692	4.77	4.57E-06
10450	TC377791	3.00	1.68E-03	10518	TC379287	1.87	1.82E-03	10586	TC380693	6.03	3.17E-04
10451	TC377955	1.01	3.93E-03	10519	TC379341	2.36	1.72E-02	10587	TC380711	1.63	8.69E-03
10452	TC377966	5.86	2.82E-03	10520	TC379344	4.80	8.79E-03	10588	TC380721	3.76	4.65E-03
10453	TC377981	3.68	1.28E-02	10521	TC379355	1.82	1.06E-03	10589	TC380754	2.18	1.57E-02
10454	TC377982	6.05	1.16E-02	10522	TC379420	1.86	3.93E-03	10590	TC380761	2.56	1.45E-02
10455	TC377998	1.71	4.72E-03	10523	TC379436	3.04	6.46E-04	10591	TC380785	2.38	1.46E-03
10456	TC378008	3.27	1.86E-03	10524	TC379480	1.19	4.91E-02	10592	TC380793	2.53	1.88E-03
10457	TC378011	4.38	1.47E-03	10525	TC379499	3.58	5.48E-03	10593	TC380819	4.07	1.32E-03
10458	TC378052	3.41	7.12E-03	10526	TC379514	4.16	4.30E-04	10594	TC380835	1.75	3.85E-03
10459	TC378080	2.24	3.62E-02	10527	TC379525	1.80	8.23E-04	10595	TC380850	1.99	3.06E-02
10460	TC378086	4.94	4.77E-04	10528	TC379535	2.96	1.01E-02	10596	TC380855	1.35	4.35E-02
10461	TC378087	2.06	2.03E-02	10529	TC379541	4.47	7.88E-05	10597	TC380920	6.42	1.74E-03
10462	TC378089	3.50	9.08E-03	10530	TC379598	3.40	4.15E-03	10598	TC380923	3.85	3.26E-03
10463	TC378129	6.24	4.49E-03	10531	TC379634	3.28	3.10E-03	10599	TC380930	3.12	6.63E-03
10464	TC378132	4.87	2.60E-04	10532	TC379683	2.82	3.70E-03	10600	TC381010	5.10	5.47E-03
10465	TC378144	2.25	1.34E-02	10533	TC379702	2.67	1.22E-03	10601	TC381020	3.38	1.30E-02
10466	TC378154	4.82	1.53E-03	10534	TC379711	2.69	5.32E-03	10602	TC381054	1.63	2.17E-02
10467	TC378183	2.48	1.13E-02	10535	TC379753	5.35	8.32E-04	10603	TC381091	6.36	5.19E-06
10468	TC378207	1.57	8.88E-03	10536	TC379761	3.08	7.31E-03	10604	TC381121	2.18	6.86E-03
10469	TC378220	2.36	3.58E-03	10537	TC379770	5.76	3.24E-04	10605	TC381146	3.08	1.07E-02
10470	TC378232	1.18	2.16E-03	10538	TC379801	4.97	4.41E-03	10606	TC381177	4.45	3.99E-03
10471	TC378237	1.41	1.15E-01	10539	TC379834	3.90	1.25E-04	10607	TC381188	5.45	1.66E-03

10608	TC381207	4.49	8.12E-04	10676	TC383242	4.31	1.12E-03	10744	TC385885	1.31	2.95E-04
10609	TC381214	1.29	7.63E-03	10677	TC383247	2.16	2.45E-03	10745	TC385919	1.97	8.16E-03
10610	TC381226	3.97	8.55E-04	10678	TC383259	4.79	2.97E-04	10746	TC386050	5.80	1.31E-03
10611	TC381228	6.08	2.22E-04	10679	TC383294	3.81	8.53E-03	10747	TC386082	1.61	1.72E-02
10612	TC381237	1.95	8.20E-02	10680	TC383322	3.59	2.26E-03	10748	TC386103	2.86	2.75E-03
10613	TC381249	3.89	5.61E-03	10681	TC383365	3.09	6.59E-03	10749	TC386117	4.48	3.15E-03
10614	TC381264	3.47	3.93E-03	10682	TC383420	4.29	8.91E-04	10750	TC386135	2.94	1.47E-03
10615	TC381266	5.04	3.20E-04	10683	TC383426	3.19	6.75E-03	10751	TC386230	1.62	4.34E-03
10616	TC381356	3.56	4.65E-05	10684	TC383564	4.27	1.49E-02	10752	TC386249	5.35	2.77E-03
10617	TC381453	1.28	2.37E-03	10685	TC383595	1.33	9.16E-03	10753	TC386285	5.94	8.36E-04
10618	TC381454	1.31	1.12E-02	10686	TC383598	5.46	5.17E-04	10754	TC386289	2.31	1.83E-02
10619	TC381503	1.94	1.14E-02	10687	TC383625	2.18	1.87E-02	10755	TC386300	2.59	4.24E-04
10620	TC381504	2.23	2.90E-04	10688	TC383654	1.79	1.56E-02	10756	TC386323	1.57	5.35E-02
10621	TC381512	3.60	1.25E-02	10689	TC383686	3.94	1.35E-02	10757	TC386354	2.89	2.13E-02
10622	TC381538	3.08	3.04E-03	10690	TC383775	4.55	6.12E-04	10758	TC386404	5.92	7.44E-05
10623	TC381556	3.00	1.62E-02	10691	TC383823	4.79	6.68E-05	10759	TC386482	4.61	2.14E-02
10624	TC381568	4.83	5.12E-03	10692	TC383903	2.10	1.77E-02	10760	TC386643	8.75	1.91E-03
10625	TC381586	2.66	1.68E-02	10693	TC383906	5.89	7.51E-04	10761	TC386663	2.41	3.99E-03
10626	TC381617	5.44	3.27E-04	10694	TC383927	5.25	9.28E-04	10762	TC386720	4.59	9.97E-04
10627	TC381679	3.85	6.54E-03	10695	TC383934	5.55	6.38E-04	10763	TC386785	2.61	1.09E-03
10628	TC381702	5.26	2.21E-03	10696	TC384017	6.75	2.77E-05	10764	TC386830	4.56	6.66E-03
10629	TC381709	5.61	5.90E-02	10697	TC384024	4.73	3.19E-01	10765	TC386845	4.30	1.21E-02
10630	TC381710	4.54	1.97E-03	10698	TC384109	6.62	2.88E-03	10766	TC386857	1.33	3.01E-02
10631	TC381729	3.19	1.19E-02	10699	TC384114	2.36	1.75E-02	10767	TC386876	5.35	1.39E-03
10632	TC381748	5.20	3.09E-03	10700	TC384117	2.29	1.50E-03	10768	TC386937	3.52	1.44E-02
10633	TC381832	3.95	4.95E-03	10701	TC384118	4.59	1.25E-03	10769	TC387096	4.73	1.35E-03
10634	TC381841	4.29	1.91E-03	10702	TC384255	5.50	1.37E-02	10770	TC387118	5.87	1.53E-04
10635	TC381873	2.67	1.77E-03	10703	TC384306	3.25	3.87E-04	10771	TC387153	4.68	8.08E-04
10636	TC381889	1.53	9.10E-02	10704	TC384359	4.07	1.52E-02	10772	TC387214	1.51	1.11E-04
10637	TC381903	4.44	5.53E-04	10705	TC384421	3.38	1.04E-03	10773	TC387278	9.62	6.53E-04
10638	TC381905	1.38	2.11E-02	10706	TC384422	3.02	1.28E-02	10774	TC387347	6.39	4.00E-04
10639	TC381930	3.71	3.44E-03	10707	TC384441	3.73	1.76E-03	10775	TC387507	1.75	6.96E-02
10640	TC381965	1.21	5.01E-02	10708	TC384452	1.65	7.10E-02	10776	TC387558	1.49	1.55E-02
10641	TC381970	2.37	1.13E-02	10709	TC384463	3.68	1.02E-03	10777	TC387600	5.19	1.23E-02
10642	TC381997	2.88	8.13E-04	10710	TC384488	1.13	2.87E-02	10778	TC387613	5.49	1.88E-05
10643	TC382002	5.34	4.01E-05	10711	TC384548	3.12	6.63E-02	10779	TC387641	4.45	2.28E-03
10644	TC382036	1.88	2.27E-03	10712	TC384595	5.66	2.82E-05	10780	TC387721	2.97	3.91E-03
10645	TC382119	5.89	8.04E-05	10713	TC384629	2.37	4.01E-03	10781	TC387778	1.66	2.35E-03
10646	TC382128	3.51	3.68E-03	10714	TC384631	4.43	8.45E-04	10782	TC387783	1.42	9.21E-02
10647	TC382195	4.53	3.37E-03	10715	TC384743	5.88	2.46E-03	10783	TC387829	4.60	2.43E-02
10648	TC382231	1.76	4.27E-03	10716	TC384802	1.25	1.61E-02	10784	TC387883	4.02	6.58E-04
10649	TC382320	9.17	5.33E-05	10717	TC384805	3.72	3.26E-03	10785	TC387930	5.52	3.96E-03
10650	TC382332	3.49	6.85E-05	10718	TC384861	2.04	3.25E-03	10786	TC387972	3.00	7.40E-03
10651	TC382352	1.51	1.69E-02	10719	TC384868	5.90	5.53E-03	10787	TC388019	2.58	1.52E-01
10652	TC382361	1.74	1.62E-02	10720	TC384872	3.77	1.21E-03	10788	TC388086	2.13	2.62E-03
10653	TC382375	4.62	3.76E-03	10721	TC384929	5.54	2.10E-02	10789	TC388124	4.09	9.14E-04
10654	TC382399	2.47	1.93E-02	10722	TC384956	3.15	1.01E-03	10790	TC388204	3.93	2.83E-01
10655	TC382467	2.63	9.08E-04	10723	TC385004	6.34	1.35E-03	10791	TC388294	4.78	8.28E-05
10656	TC382488	3.43	2.50E-03	10724	TC385011	4.20	2.93E-03	10792	TC388298	1.89	2.98E-03
10657	TC382495	2.09	2.49E-02	10725	TC385029	1.58	7.72E-03	10793	TC388323	5.85	3.76E-03
10658	TC382536	3.50	8.93E-04	10726	TC385108	5.57	5.41E-03	10794	TC388369	3.16	2.90E-03
10659	TC382578	2.72	4.00E-05	10727	TC385136	3.10	4.85E-03	10795	TC388473	1.57	1.59E-03
10660	TC382606	2.19	1.70E-03	10728	TC385154	6.24	6.69E-03	10796	TC388478	5.11	3.90E-04
10661	TC382607	1.96	1.05E-02	10729	TC385168	4.94	1.78E-03	10797	TC388507	4.35	2.34E-03
10662	TC382617	4.60	4.99E-03	10730	TC385215	2.76	1.11E-02	10798	TC388629	6.70	2.90E-03
10663	TC382679	5.97	1.03E-04	10731	TC385232	4.51	1.95E-03	10799	TC388671	2.48	3.93E-03
10664	TC382691	2.65	5.47E-03	10732	TC385241	4.93	4.09E-03	10800	TC388730	2.25	2.63E-02
10665	TC382695	3.19	1.64E-04	10733	TC385296	2.10	6.83E-02	10801	TC388731	1.38	2.01E-02
10666	TC382709	3.05	6.39E-03	10734	TC385319	2.45	4.32E-03	10802	TC388783	6.38	5.19E-04
10667	TC382741	4.10	3.47E-04	10735	TC385410	2.53	1.74E-02	10803	TC388836	3.17	1.78E-04
10668	TC382941	5.23	2.31E-01	10736	TC385420	4.21	2.51E-02	10804	TC388861	2.22	2.81E-03
10669	TC383030	6.79	6.95E-04	10737	TC385427	3.34	3.59E-03	10805	TC388926	1.36	2.30E-02
10670	TC383058	3.09	5.48E-03	10738	TC385640	2.46	8.42E-03	10806	TC388936	2.96	3.63E-03
10671	TC383085	4.82	2.91E-03	10739	TC385657	4.02	1.74E-05	10807	TC388968	2.98	1.49E-02
10672	TC383088	4.79	1.91E-03	10740	TC385708	3.08	2.73E-03	10808	TC388974	1.57	1.40E-02
10673	TC383160	4.56	1.00E-02	10741	TC385753	3.82	1.66E-03	10809	TC388986	1.51	1.32E-03
10674	TC383180	3.03	1.10E-02	10742	TC385774	1.67	5.66E-02	10810	TC389001	6.88	3.16E-04
10675	TC383240	4.63	5.36E-04	10743	TC385828	1.45	1.52E-02	10811	TC389048	1.25	1.83E-02

10812	TC389049	2.73	3.39E-03	10880	TC393449	2.62	6.99E-03	10948	TC400321	3.93	3.11E-03
10813	TC389172	3.75	1.26E-03	10881	TC393460	1.17	8.60E-03	10949	TC400352	4.64	2.75E-03
10814	TC389210	1.69	2.74E-02	10882	TC393550	2.89	7.32E-03	10950	TC400376	4.39	1.58E-03
10815	TC389247	7.39	2.30E-04	10883	TC393579	5.95	5.55E-05	10951	TC400407	3.35	7.65E-04
10816	TC389287	4.36	5.37E-03	10884	TC393783	5.15	1.34E-04	10952	TC400468	3.13	1.06E-02
10817	TC389303	6.80	1.64E-01	10885	TC393786	6.19	2.63E-05	10953	TC400588	4.18	4.05E-04
10818	TC389316	2.73	1.07E-01	10886	TC393801	6.17	2.27E-03	10954	TC400923	4.84	2.04E-03
10819	TC389363	3.02	1.53E-03	10887	TC393991	4.10	2.78E-04	10955	TC400973	2.23	6.02E-03
10820	TC389423	3.12	1.08E-03	10888	TC394242	4.55	1.29E-03	10956	TC401175	3.56	8.94E-03
10821	TC389440	5.09	1.21E-02	10889	TC394339	2.89	3.69E-04	10957	TC401381	5.80	3.11E-04
10822	TC389638	2.57	4.97E-03	10890	TC394619	1.15	2.36E-02	10958	TC401494	4.71	2.48E-03
10823	TC389665	3.43	1.99E-03	10891	TC394628	6.21	6.35E-04	10959	TC401629	3.61	5.22E-03
10824	TC389722	4.60	3.75E-03	10892	TC394698	5.44	3.75E-03	10960	TC402122	5.32	2.30E-02
10825	TC389748	2.97	4.98E-03	10893	TC394730	6.76	3.68E-02	10961	TC402258	4.92	9.94E-03
10826	TC389797	3.43	2.08E-03	10894	TC394794	5.11	1.99E-03	10962	TC402329	3.83	2.62E-03
10827	TC390041	5.32	6.32E-04	10895	TC394799	4.68	1.19E-03	10963	TC402375	1.85	8.84E-03
10828	TC390082	4.44	1.00E-02	10896	TC394875	6.95	1.46E-03	10964	TC402403	4.85	6.31E-03
10829	TC390108	2.73	2.72E-03	10897	TC394958	1.69	5.84E-03	10965	TC402486	3.83	2.10E-04
10830	TC390114	1.87	1.72E-02	10898	TC395006	3.78	2.56E-03	10966	TC402659	3.24	9.46E-04
10831	TC390190	3.69	4.34E-03	10899	TC395423	1.86	3.63E-03	10967	TC402671	6.95	4.54E-04
10832	TC390201	7.28	3.83E-04	10900	TC395642	4.81	3.17E-03	10968	TC402716	1.27	4.24E-02
10833	TC390294	3.15	1.99E-03	10901	TC395794	1.77	3.88E-03	10969	TC402745	2.21	3.15E-03
10834	TC390382	1.32	3.03E-02	10902	TC396337	7.12	3.74E-03	10970	TC402805	5.65	5.29E-03
10835	TC390397	2.73	1.36E-02	10903	TC396384	1.74	2.87E-02	10971	TC402828	6.33	3.23E-04
10836	TC390521	1.36	4.40E-02	10904	TC396587	3.60	4.33E-04	10972	TC402858	5.85	1.07E-04
10837	TC390530	5.05	1.47E-03	10905	TC396628	4.97	2.37E-03	10973	TC402944	3.04	1.59E-02
10838	TC390606	5.32	1.16E-03	10906	TC396869	1.47	2.74E-02	10974	TC402960	1.55	2.65E-02
10839	TC390653	3.25	4.74E-03	10907	TC396961	5.57	1.16E-03	10975	TC403029	5.55	4.43E-03
10840	TC390684	2.31	3.00E-03	10908	TC397063	3.32	1.72E-03	10976	TC403098	5.46	2.75E-03
10841	TC390696	5.57	4.68E-05	10909	TC397176	4.38	1.04E-02	10977	TC403455	7.05	2.21E-03
10842	TC390775	2.66	7.06E-03	10910	TC397374	1.07	1.03E-03	10978	TC403596	3.86	1.58E-03
10843	TC390952	3.07	2.41E-02	10911	TC397378	3.78	1.87E-03	10979	TC403915	3.25	4.11E-03
10844	TC390963	3.84	3.62E-03	10912	TC397445	3.01	2.61E-03	10980	TC403917	2.25	1.38E-03
10845	TC391039	1.43	2.30E-02	10913	TC397622	3.28	2.06E-03	10981	TC404023	2.55	1.15E-02
10846	TC391169	4.41	1.44E-02	10914	TC397624	2.43	3.88E-03	10982	TC404025	4.49	6.32E-03
10847	TC391173	6.85	4.90E-03	10915	TC397693	1.95	1.09E-02	10983	TC404138	7.64	1.60E-03
10848	TC391199	1.92	2.63E-02	10916	TC397714	3.46	1.11E-04	10984	TC404369	5.10	6.06E-04
10849	TC391238	7.06	3.02E-05	10917	TC397821	4.71	1.42E-03	10985	TC404573	3.61	1.42E-03
10850	TC391250	1.43	1.77E-02	10918	TC397842	3.65	9.81E-03	10986	TC404615	3.42	4.03E-03
10851	TC391254	2.56	2.28E-03	10919	TC397920	4.72	4.26E-03	10987	TC404681	5.90	3.35E-04
10852	TC391286	3.89	5.41E-03	10920	TC397986	2.81	2.10E-03	10988	TC404683	3.95	1.13E-02
10853	TC391302	7.20	2.52E-03	10921	TC398246	3.80	1.94E-03	10989	TC404843	6.12	6.86E-05
10854	TC391502	2.30	4.83E-03	10922	TC398335	3.62	4.66E-03	10990	TC404848	4.88	2.99E-03
10855	TC391669	4.16	1.12E-03	10923	TC398341	4.24	5.82E-05	10991	TC404870	4.30	8.62E-03
10856	TC391741	8.52	2.03E-04	10924	TC398388	2.13	1.03E-03	10992	TC404943	3.87	4.94E-03
10857	TC391897	4.67	1.34E-03	10925	TC398424	2.24	4.18E-02	10993	TC404980	2.45	5.18E-02
10858	TC391959	6.76	1.13E-03	10926	TC398443	1.55	1.39E-02	10994	TC405295	2.98	5.92E-03
10859	TC391968	2.08	2.15E-03	10927	TC398664	4.37	6.19E-04	10995	TC405372	5.63	1.98E-03
10860	TC391977	2.74	7.92E-02	10928	TC398676	4.85	4.20E-03	10996	TC405388	4.10	5.89E-04
10861	TC391990	2.42	1.31E-04	10929	TC398714	2.76	7.61E-04	10997	TC405550	4.84	1.78E-03
10862	TC392121	2.01	6.10E-03	10930	TC398787	6.29	1.42E-05	10998	TC405646	1.72	5.14E-02
10863	TC392140	2.52	1.37E-02	10931	TC398849	2.99	1.06E-02	10999	TC405679	3.05	7.25E-04
10864	TC392238	6.31	3.60E-03	10932	TC398925	6.22	3.10E-03	11000	TC405822	5.32	5.75E-02
10865	TC392276	4.16	8.58E-04	10933	TC399137	3.10	2.36E-03	11001	TC405917	4.34	2.48E-03
10866	TC392304	2.81	5.45E-03	10934	TC399165	3.77	2.63E-03	11002	TC406091	2.46	3.97E-02
10867	TC392327	3.43	9.08E-04	10935	TC399193	5.17	7.01E-03	11003	TC406099	4.00	2.29E-03
10868	TC392345	2.30	7.53E-03	10936	TC399252	4.63	1.01E-02	11004	TC406110	2.05	2.68E-03
10869	TC392410	1.84	9.78E-03	10937	TC399300	6.03	1.28E-02	11005	TC406133	5.21	7.24E-03
10870	TC392492	3.32	3.69E-02	10938	TC399400	2.81	1.24E-03	11006	TC406208	5.96	1.02E-05
10871	TC392506	5.45	1.73E-03	10939	TC399408	5.00	3.95E-04	11007	TC406295	7.64	3.83E-03
10872	TC392628	2.88	1.51E-03	10940	TC399413	2.46	6.43E-03	11008	TC406396	2.31	1.33E-02
10873	TC392837	1.15	8.19E-03	10941	TC399416	1.08	2.64E-02	11009	TC406563	4.43	2.19E-03
10874	TC392880	5.74	2.45E-03	10942	TC399509	2.78	1.55E-01	11010	TC406696	2.96	3.67E-03
10875	TC392954	4.36	7.49E-04	10943	TC399566	2.29	1.58E-02	11011	TC406841	2.24	6.39E-04
10876	TC392958	4.61	1.40E-02	10944	TC399597	4.68	1.11E-02	11012	TC406845	3.27	1.44E-04
10877	TC392966	3.56	5.20E-03	10945	TC399664	5.03	5.14E-04	11013	TC407148	2.91	9.70E-03
10878	TC393051	4.92	4.59E-03	10946	TC399706	3.05	1.88E-02	11014	TC407161	4.18	5.70E-03
10879	TC393251	1.84	2.47E-03	10947	TC400181	4.90	5.90E-03	11015	TC407337	3.27	5.13E-03

11016	TC407575	2.44	3.49E-03	11084	TC417062	3.94	3.77E-03	11152	TC424017	1.93	2.82E-02
11017	TC407733	1.96	2.43E-02	11085	TC417106	2.97	8.69E-03	11153	TC424171	3.16	1.90E-03
11018	TC407848	3.74	4.36E-03	11086	TC417117	1.49	3.93E-04	11154	TC424193	7.24	5.49E-03
11019	TC407923	4.51	8.73E-03	11087	TC417374	4.81	1.70E-03	11155	TC424339	3.63	1.03E-02
11020	TC408091	6.08	7.13E-04	11088	TC417469	2.15	6.12E-03	11156	TC424396	3.15	2.27E-03
11021	TC408117	5.30	1.65E-04	11089	TC417784	1.58	1.83E-03	11157	TC424550	4.19	5.36E-03
11022	TC408177	1.49	2.46E-03	11090	TC417786	5.71	5.25E-04	11158	TC424644	4.12	7.21E-02
11023	TC408201	2.89	7.57E-03	11091	TC417795	2.68	1.79E-03	11159	TC424693	4.83	2.41E-03
11024	TC408509	2.11	1.23E-03	11092	TC417831	3.18	3.71E-02	11160	TC424740	1.51	2.54E-02
11025	TC408548	2.87	5.52E-03	11093	TC417861	3.71	2.52E-04	11161	TC424791	3.85	1.80E-03
11026	TC408809	1.75	2.86E-02	11094	TC417943	2.98	2.20E-02	11162	TC424832	4.43	9.79E-04
11027	TC409252	5.87	5.87E-03	11095	TC417994	2.57	2.38E-01	11163	TC424896	9.44	5.73E-04
11028	TC409342	5.08	1.02E-02	11096	TC418012	2.36	2.33E-03	11164	TC425114	8.03	3.65E-05
11029	TC409661	7.17	3.24E-05	11097	TC418032	3.34	8.39E-03	11165	TC425252	2.79	7.41E-03
11030	TC409909	4.27	1.85E-05	11098	TC418068	3.82	9.96E-03	11166	TC425295	6.14	3.04E-03
11031	TC410014	5.47	2.09E-03	11099	TC418183	3.17	1.59E-03	11167	TC425372	3.90	6.59E-04
11032	TC410161	4.84	4.61E-04	11100	TC418606	6.45	4.95E-03	11168	TC425612	6.71	5.01E-05
11033	TC410238	2.94	2.04E-03	11101	TC418656	3.14	5.34E-03	11169	TC425752	3.70	3.12E-03
11034	TC410278	5.32	1.17E-05	11102	TC418686	4.19	3.41E-04	11170	TC425877	5.73	1.36E-03
11035	TC410377	3.09	3.63E-04	11103	TC418883	5.26	1.71E-03	11171	TC425896	1.88	1.23E-01
11036	TC410379	3.72	8.30E-03	11104	TC418964	1.95	7.05E-03	11172	TC425919	2.29	2.28E-03
11037	TC410459	4.83	6.61E-03	11105	TC419187	5.98	1.99E-03	11173	TC426094	6.36	9.58E-03
11038	TC410499	2.20	2.76E-03	11106	TC419215	5.34	2.28E-03	11174	TC426117	1.79	7.59E-03
11039	TC410561	3.70	9.11E-03	11107	TC419376	5.30	8.63E-05	11175	TC426191	4.36	8.54E-03
11040	TC410608	2.83	3.91E-04	11108	TC419404	3.19	1.64E-03	11176	TC426551	2.74	1.54E-01
11041	TC410613	3.38	7.27E-04	11109	TC419826	5.90	7.27E-04	11177	TC426560	3.99	9.25E-03
11042	TC410725	4.36	2.01E-03	11110	TC419910	6.47	5.65E-04	11178	TC426589	1.53	1.51E-03
11043	TC410803	1.43	1.56E-01	11111	TC420063	5.38	2.31E-04	11179	TC426600	3.56	8.41E-04
11044	TC410859	3.72	1.20E-03	11112	TC420076	3.84	2.78E-02	11180	TC426607	3.07	1.61E-03
11045	TC411043	1.99	4.36E-03	11113	TC420082	1.49	7.20E-03	11181	TC426660	3.63	3.33E-03
11046	TC411159	5.71	1.79E-03	11114	TC420185	7.16	8.16E-04	11182	TC426668	4.78	8.55E-04
11047	TC411198	4.91	6.59E-03	11115	TC420385	5.35	5.14E-04	11183	TC426685	3.01	3.50E-03
11048	TC411345	1.56	8.02E-04	11116	TC420425	5.63	4.90E-03	11184	TC426704	2.54	3.98E-03
11049	TC411379	2.27	1.25E-02	11117	TC420758	2.48	1.52E-03	11185	TC426931	4.64	2.48E-03
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11051	TC411560	2.79	4.89E-03	11119	TC421108	4.85	4.92E-04	11187	TC426939	3.39	1.93E-04
11052	TC411740	3.84	2.31E-04	11120	TC421140	2.38	1.49E-02	11188	TC427172	2.39	4.12E-03
11053	TC411776	8.28	5.68E-03	11121	TC421171	5.94	8.14E-03	11189	TC427209	8.44	9.38E-03
11054	TC411935	6.92	9.87E-04	11122	TC421182	2.29	3.28E-03	11190	TC427263	1.21	4.25E-03
11055	TC412057	5.13	2.92E-03	11123	TC421207	3.67	7.41E-03	11191	TC427306	6.35	7.65E-04
11056	TC412082	1.68	1.25E-02	11124	TC421232	4.82	1.69E-03	11192	TC427329	3.80	7.44E-03
11057	TC412090	5.65	6.33E-05	11125	TC421248	1.98	4.26E-02	11193	TC427563	5.72	1.17E-03
11058	TC412374	1.79	8.35E-02	11126	TC421383	3.40	3.31E-03	11194	TC427868	5.60	8.52E-05
11059	TC412531	6.72	8.06E-03	11127	TC421514	2.43	2.33E-03	11195	TC427987	5.88	1.74E-03
11060	TC412636	3.34	4.17E-03	11128	TC421600	3.98	1.25E-03	11196	TC428060	3.57	2.14E-03
11061	TC413164	2.38	6.27E-03	11129	TC421671	1.09	1.93E-02	11197	TC428166	2.14	3.03E-02
11062	TC413171	4.33	1.01E-02	11130	TC422017	5.00	2.73E-02	11198	TC428374	1.56	7.74E-03
11063	TC413356	1.33	4.64E-02	11131	TC422049	2.87	8.27E-04	11199	TC428652	4.35	5.70E-06
11064	TC413373	1.91	3.72E-04	11132	TC422103	3.04	4.37E-03	11200	TC428708	4.72	9.47E-04
11065	TC413403	2.82	2.81E-02	11133	TC422195	1.32	7.02E-01	11201	TC428742	4.07	8.87E-03
11066	TC413436	5.13	1.39E-05	11134	TC422248	2.77	1.83E-03	11202	TC428838	5.82	8.28E-04
11067	TC413629	2.84	4.50E-03	11135	TC422292	2.45	1.57E-03	11203	TC428983	4.15	1.91E-03
11068	TC413716	4.14	5.49E-05	11136	TC422326	2.46	1.48E-02	11204	TC428999	1.61	2.90E-03
11069	TC413777	5.61	6.12E-03	11137	TC422418	1.92	4.36E-02	11205	TC429194	2.95	5.61E-04
11070	TC414270	7.31	5.35E-06	11138	TC422598	4.19	3.75E-03	11206	TC429222	6.97	2.50E-03
11071	TC414602	5.64	4.63E-03	11139	TC422754	3.66	9.87E-03	11207	TC429556	2.27	5.05E-03
11072	TC414857	3.52	1.29E-03	11140	TC422845	2.77	1.09E-03	11208	TC429575	4.21	1.49E-04
11073	TC414894	5.54	2.11E-04	11141	TC423091	4.61	7.84E-04	11209	TC429602	9.44	1.06E-04
11074	TC415011	3.39	5.03E-03	11142	TC423100	3.05	4.03E-03	11210	TC429740	3.23	4.63E-04
11075	TC415190	2.68	1.04E-02	11143	TC423122	7.09	4.26E-03	11211	TC429843	3.02	5.76E-03
11076	TC415322	3.34	1.62E-04	11144	TC423218	3.74	4.06E-02	11212	TC429883	3.30	7.18E-03
11077	TC415447	2.00	5.33E-03	11145	TC423369	5.37	2.21E-03	11213	TC429933	5.32	7.95E-04
11078	TC415557	5.13	3.64E-04	11146	TC423457	2.28	9.70E-03	11214	TC429940	9.97	3.69E-03
11079	TC415779	2.56	2.18E-03	11147	TC423515	1.38	1.69E-02	11215	TC430142	2.52	3.18E-03
11080	TC416410	7.54	4.29E-04	11148	TC423722	5.55	2.67E-05	11216	TC430426	3.43	2.84E-03
11081	TC416447	5.06	6.72E-03	11149	TC423814	3.46	1.06E-02	11217	TC430602	6.39	4.55E-03
11082	TC416795	5.11	8.50E-04	11150	TC423944	5.13	1.55E-05	11218	TC430629	4.59	8.35E-03
11083	TC417017	2.52	4.70E-03	11151	TC423960	4.43	6.94E-04	11219	TC430917	4.42	3.64E-03

11220	TC4311121	2.22	2.71E-01	11288	TC437643	3.13	8.87E-03	11356	TC443238	1.83	1.11E-02
11221	TC4311130	2.44	5.65E-03	11289	TC437727	3.19	2.40E-03	11357	TC443337	1.22	1.61E-02
11222	TC431348	1.57	2.29E-02	11290	TC437842	8.83	1.33E-03	11358	TC443427	3.56	2.83E-02
11223	TC431388	3.78	6.66E-03	11291	TC437856	5.57	3.01E-03	11359	TC443443	1.18	2.76E-03
11224	TC431517	7.28	4.17E-05	11292	TC438210	7.09	1.69E-03	11360	TC443536	6.07	5.97E-03
11225	TC431632	5.00	1.43E-04	11293	TC438256	3.97	5.30E-03	11361	TC443676	2.94	1.48E-01
11226	TC431645	3.18	1.36E-02	11294	TC438308	3.76	7.07E-03	11362	TC443762	1.68	1.58E-02
11227	TC431734	5.64	1.32E-04	11295	TC438314	3.23	8.79E-04	11363	TC443770	3.65	1.43E-03
11228	TC431802	2.86	9.29E-03	11296	TC438357	2.37	3.43E-02	11364	TC443780	5.24	1.03E-02
11229	TC431858	4.98	9.15E-05	11297	TC438402	6.97	1.71E-03	11365	TC443859	1.41	6.26E-02
11230	TC432082	3.07	2.98E-03	11298	TC438424	3.02	9.33E-03	11366	TC443928	3.75	5.94E-03
11231	TC432411	3.72	2.02E-03	11299	TC438463	3.28	7.57E-03	11367	TC444017	1.94	9.65E-03
11232	TC432484	2.00	1.03E-02	11300	TC438627	6.19	4.62E-04	11368	TC444098	2.68	5.15E-03
11233	TC432508	3.18	3.76E-03	11301	TC438678	1.36	8.64E-04	11369	TC444138	4.15	2.05E-03
11234	TC432528	3.18	7.47E-03	11302	TC438777	1.17	1.05E-02	11370	TC444167	2.75	6.58E-03
11235	TC432567	4.42	2.11E-04	11303	TC438781	1.13	2.13E-02	11371	TC444205	1.97	8.96E-03
11236	TC432651	4.01	3.54E-04	11304	TC438868	2.71	6.38E-03	11372	TC444327	2.87	2.26E-02
11237	TC432749	1.81	7.58E-03	11305	TC438911	8.14	1.76E-03	11373	TC444367	1.93	1.43E-03
11238	TC432774	3.87	5.74E-03	11306	TC439067	5.87	6.59E-03	11374	TC444372	6.71	6.06E-03
11239	TC432792	2.92	5.71E-02	11307	TC439087	8.00	1.78E-03	11375	TC444392	2.63	3.88E-02
11240	TC432839	3.52	8.96E-05	11308	TC439181	2.29	5.21E-03	11376	TCF15	2.70	3.03E-03
11241	TC432858	4.21	5.21E-02	11309	TC439233	2.98	4.26E-03	11377	TCF21	1.70	2.28E-03
11242	TC433242	2.43	3.02E-03	11310	TC439276	3.42	1.32E-02	11378	TCN2	3.57	6.53E-04
11243	TC433362	2.58	5.21E-03	11311	TC439369	1.93	1.11E-02	11379	TCP10	4.68	2.13E-04
11244	TC433372	1.52	1.14E-02	11312	TC439480	7.98	4.10E-03	11380	TCTEX1D1	4.99	6.32E-04
11245	TC433589	3.42	7.21E-03	11313	TC439519	4.08	3.78E-04	11381	TCTN3	4.13	2.62E-03
11246	TC433875	3.04	3.66E-03	11314	TC439554	2.69	4.07E-03	11382	TD02	3.56	5.04E-03
11247	TC433881	4.23	7.91E-03	11315	TC439846	1.78	7.19E-03	11383	TEAD3	2.57	3.24E-03
11248	TC433930	6.77	2.50E-03	11316	TC439923	4.45	4.60E-03	11384	TECPR1	3.47	2.06E-03
11249	TC434038	4.50	1.81E-03	11317	TC439924	3.63	7.45E-04	11385	TECRL	4.35	4.47E-03
11250	TC434156	3.23	9.41E-02	11318	TC439945	6.52	5.74E-04	11386	TECTA	6.20	2.51E-04
11251	TC434161	4.95	6.20E-04	11319	TC440179	2.34	8.50E-03	11387	TECTB	3.79	1.25E-03
11252	TC434222	2.45	2.33E-03	11320	TC440182	1.75	2.70E-02	11388	TEK	1.72	1.14E-02
11253	TC434276	3.40	9.69E-03	11321	TC440272	2.29	4.21E-03	11389	TENP	3.98	5.87E-03
11254	TC434297	3.21	1.09E-02	11322	TC440280	6.55	1.29E-03	11390	TESK2	2.12	3.38E-03
11255	TC434308	4.02	1.40E-04	11323	TC440322	6.80	1.64E-03	11391	TET3	2.11	4.64E-04
11256	TC434437	3.76	1.30E-02	11324	TC440494	2.86	4.45E-03	11392	TFAP2B	6.37	6.13E-03
11257	TC434442	1.75	1.68E-02	11325	TC440538	3.32	8.08E-03	11393	TFAP2C	4.65	7.86E-03
11258	TC434453	4.85	2.06E-03	11326	TC440731	3.45	6.77E-04	11394	TFAP2D	6.46	2.36E-03
11259	TC434529	3.44	8.79E-03	11327	TC440787	5.96	1.61E-03	11395	TFAP2E	2.74	1.19E-02
11260	TC434660	4.10	1.10E-04	11328	TC440799	3.46	6.56E-04	11396	TFCP2L1	1.67	5.57E-02
11261	TC434738	8.35	8.56E-04	11329	TC440880	8.66	6.62E-04	11397	TFEC	5.77	2.69E-03
11262	TC434761	2.92	6.44E-03	11330	TC440897	3.56	1.51E-04	11398	TFF2	3.01	8.03E-04
11263	TC434945	2.39	1.17E-02	11331	TC441101	3.95	1.08E-03	11399	TFRC	2.07	1.33E-02
11264	TC435073	2.39	2.27E-03	11332	TC441106	3.44	3.83E-03	11400	TGFB2	4.36	1.91E-03
11265	TC435099	1.52	1.34E-02	11333	TC441109	3.78	7.76E-03	11401	TGFB3	3.20	9.61E-03
11266	TC435413	2.83	2.37E-03	11334	TC441202	4.46	7.59E-03	11402	TGIF2	3.08	5.65E-03
11267	TC435557	3.93	3.79E-04	11335	TC441306	2.21	6.98E-02	11403	TGM3	2.12	7.26E-02
11268	TC435609	2.31	1.37E-02	11336	TC441422	2.91	2.64E-02	11404	TGM6	2.86	2.28E-03
11269	TC435824	2.16	6.03E-03	11337	TC441477	2.22	6.31E-04	11405	TH	8.31	5.82E-03
11270	TC436129	3.27	2.63E-03	11338	TC441496	2.32	5.84E-03	11406	THBD	5.48	1.18E-02
11271	TC436310	6.41	7.55E-04	11339	TC441503	3.40	1.21E-03	11407	THBS2	4.66	2.26E-03
11272	TC436378	2.88	3.46E-04	11340	TC441508	4.88	2.03E-04	11408	THBS3	1.44	3.57E-02
11273	TC436388	3.86	1.18E-03	11341	TC441643	2.38	1.54E-02	11409	THRA	2.47	5.67E-03
11274	TC436505	5.89	2.75E-04	11342	TC441700	5.17	4.82E-04	11410	THRB	1.54	2.60E-02
11275	TC436506	4.81	4.15E-04	11343	TC441814	4.03	3.45E-03	11411	THSD1	1.97	3.10E-03
11276	TC436715	4.82	1.23E-03	11344	TC441834	2.86	5.55E-03	11412	THY1	2.09	4.76E-02
11277	TC436834	5.23	1.12E-02	11345	TC441856	3.04	2.26E-02	11413	TIAM1	2.03	1.93E-03
11278	TC436860	2.82	4.19E-03	11346	TC442048	4.87	7.09E-02	11414	TIE1	2.82	4.65E-03
11279	TC436887	4.04	2.34E-04	11347	TC442357	1.21	2.24E-02	11415	TINAG	2.88	5.63E-03
11280	TC437063	3.67	1.21E-03	11348	TC442460	5.80	2.59E-03	11416	TJAP1	1.81	2.08E-04
11281	TC437098	1.37	2.35E-02	11349	TC442519	3.77	5.98E-04	11417	TLL1	3.95	1.26E-03
11282	TC437198	4.71	5.08E-03	11350	TC442539	4.54	1.48E-02	11418	TLL2	4.84	4.16E-03
11283	TC437247	1.96	4.03E-03	11351	TC442885	1.17	2.37E-02	11419	TLN1	1.72	8.05E-03
11284	TC437254	9.53	1.67E-03	11352	TC443001	5.49	9.64E-04	11420	TLR1	1.20	2.41E-02
11285	TC437318	1.58	3.01E-03	11353	TC443030	3.25	1.61E-02	11421	TLR15	2.91	1.95E-03
11286	TC437399	4.06	9.28E-04	11354	TC443108	2.82	6.93E-03	11422	TLR21	4.16	2.29E-05
11287	TC437526	6.97	1.67E-03	11355	TC443167	2.58	2.76E-03	11423	TLR2-1	5.40	1.63E-04

11424	TLR2-2	1.90	1.63E-04	11492	TNC	3.83	1.02E-03	11560	TSNARE1	1.38	2.93E-02
11425	TLR3	4.42	3.36E-03	11493	TNFAIP2	4.16	2.74E-04	11561	TSPAN10	2.73	3.07E-03
11426	TLR7	3.78	3.47E-03	11494	TNFAIP3	3.24	3.46E-03	11562	TSPAN18	1.39	3.50E-02
11427	TLX1	2.33	2.05E-02	11495	TNFRSF10B	3.98	9.83E-04	11563	TSPAN8	2.15	9.56E-03
11428	TM4SF1	2.11	3.20E-03	11496	TNFRSF13B	2.10	1.32E-03	11564	TSPO2	2.72	3.08E-03
11429	TM4SF19	1.28	3.42E-02	11497	TNFRSF13C	4.19	2.41E-03	11565	TTC39C	1.79	5.12E-03
11430	TM7SF4	4.91	2.55E-03	11498	TNFRSF25	3.09	1.39E-02	11566	TTL3	1.87	5.04E-03
11431	TM9SF4	2.01	6.46E-03	11499	TNFRSF6B	4.21	3.37E-04	11567	TTN	2.23	3.29E-03
11432	TMC2	2.77	1.18E-03	11500	TNFSF11	1.32	2.16E-02	11568	TTR	1.67	1.47E-03
11433	TMC3	2.73	8.95E-03	11501	TNFSF13B	2.18	1.73E-04	11569	TUBA3C	1.07	5.48E-02
11434	TMC6	1.90	5.95E-03	11502	TNFSF15	1.27	9.08E-03	11570	TULP1	2.12	2.61E-04
11435	TMED6	6.34	2.76E-03	11503	TNFSF4	4.94	3.77E-04	11571	TUSC5	4.46	2.86E-03
11436	TMEFF1	3.00	4.03E-03	11504	TNFSF8	3.33	9.45E-04	11572	TWF1	3.57	1.34E-03
11437	TMEM100	2.09	9.90E-05	11505	TNIP1	2.49	9.19E-03	11573	TWIST1	4.78	1.88E-02
11438	TMEM108	1.35	2.29E-02	11506	TNIP2	1.70	3.80E-03	11574	TWIST2	3.57	1.81E-03
11439	TMEM115	2.62	4.61E-02	11507	TNK2	3.07	2.76E-03	11575	TWIST3	2.91	1.29E-03
11440	TMEM117	1.46	6.49E-03	11508	TNMD	2.48	3.40E-03	11576	TXK	3.45	8.84E-03
11441	TMEM119	3.26	2.15E-02	11509	TNNC2	3.54	2.38E-03	11577	TYK2	3.24	1.13E-02
11442	TMEM121	5.57	1.22E-02	11510	TNNI1	5.84	3.46E-03	11578	TYR	4.13	2.42E-03
11443	TMEM125	4.54	6.08E-03	11511	TNNI2	2.30	4.25E-03	11579	TYRP1	1.93	1.53E-02
11444	TMEM132A	4.42	4.65E-04	11512	TNNT2	3.88	1.18E-03	11580	TYSDN1	2.35	2.51E-03
11445	TMEM132D	2.32	3.07E-03	11513	TNR	4.79	4.24E-04	11581	U04612	6.94	1.00E-03
11446	TMEM132E	2.69	2.10E-02	11514	TNXB	1.87	8.17E-03	11582	U04613	9.08	2.06E-03
11447	TMEM136	4.40	1.39E-05	11515	TOP1MT	2.89	1.41E-02	11583	U78211	8.57	6.87E-04
11448	TMEM150A	4.39	5.36E-03	11516	TOPBP1	2.74	5.42E-03	11584	U78230	8.66	8.21E-03
11449	TMEM151B	4.11	2.93E-03	11517	TOR1AIP2	3.77	3.80E-03	11585	U78233	8.55	1.60E-02
11450	TMEM154	1.34	2.69E-03	11518	TOR3A	4.55	2.79E-03	11586	U78234	8.17	6.72E-03
11451	TMEM169	1.80	1.25E-02	11519	TOX	4.86	6.81E-03	11587	U78236	4.08	1.55E-03
11452	TMEM174	3.95	6.98E-03	11520	TOX3	4.20	1.72E-02	11588	U78241	6.32	1.68E-04
11453	TMEM179	7.01	1.53E-04	11521	TP53	2.06	8.90E-02	11589	U78243	8.36	6.07E-03
11454	TMEM181	1.87	8.99E-03	11522	TP53I11	2.87	8.92E-03	11590	U78288	3.42	5.00E-04
11455	TMEM182	2.92	4.22E-03	11523	TPBG	2.25	9.75E-03	11591	UBA7	1.09	2.06E-02
11456	TMEM184A	3.73	2.01E-03	11524	TPD52L1	5.62	1.90E-03	11592	UBAP1L	1.75	3.04E-02
11457	TMEM194A	4.00	8.68E-03	11525	TPO	1.21	7.19E-02	11593	UBAP2L	2.72	4.66E-04
11458	TMEM196	5.72	4.92E-04	11526	TPRXL	2.10	1.70E-03	11594	UBASH3A	3.00	1.14E-03
11459	TMEM20	2.53	1.13E-03	11527	TRABD2A	3.34	4.01E-03	11595	UBE3B	1.25	4.66E-02
11460	TMEM200A	1.41	5.06E-02	11528	TRAIL-LIKE	3.15	4.24E-03	11596	UBTD1	1.55	7.73E-04
11461	TMEM201	2.14	2.28E-03	11529	TRAM2	2.60	3.70E-04	11597	UCK2	3.09	2.86E-02
11462	TMEM204	3.35	8.02E-03	11530	TRAT1	2.83	1.85E-03	11598	UCN3	4.09	2.86E-04
11463	TMEM207	6.88	3.15E-05	11531	TRBV6-5	5.40	5.11E-04	11599	UCP3	3.70	7.52E-04
11464	TMEM213	2.78	2.84E-03	11532	TREM2	2.08	5.28E-03	11600	UGT2A3	4.40	9.99E-04
11465	TMEM230	5.13	2.06E-03	11533	TRHR	6.23	1.20E-03	11601	UHRF1BP1	2.72	3.79E-04
11466	TMEM30C	3.86	5.73E-03	11534	TRIB1	3.17	1.68E-03	11602	ULK1	2.56	5.18E-03
11467	TMEM37	2.48	4.17E-03	11535	TRIL	3.72	3.40E-05	11603	ULK3	3.07	4.02E-03
11468	TMEM39A	5.18	2.67E-03	11536	TRIM13	2.73	3.77E-03	11604	ULK4	2.11	5.05E-03
11469	TMEM45A	3.85	7.35E-03	11537	TRIM27	2.90	1.35E-03	11605	UNC119	2.68	3.98E-03
11470	TMEM45B	6.29	1.23E-03	11538	TRIM27.2	4.41	3.69E-03	11606	UNC13D	4.61	5.92E-03
11471	TMEM51	3.45	4.78E-04	11539	TRIM28	3.07	6.08E-03	11607	UNC5A	4.69	5.33E-05
11472	TMEM52	3.64	4.49E-03	11540	TRIM39	4.38	7.66E-04	11608	UNC5B	3.01	4.62E-03
11473	TMEM52B	4.85	3.43E-03	11541	TRIM41	3.09	2.94E-04	11609	UNC93A	2.34	6.67E-03
11474	TMEM56	2.09	4.63E-03	11542	TRIM50	3.45	3.15E-03	11610	UNC93B1	2.94	9.07E-04
11475	TMEM61	1.90	7.21E-02	11543	TRIM8	1.66	5.46E-02	11611	UNCX	4.09	5.45E-03
11476	TMEM63B	2.03	3.82E-03	11544	TRIM9	3.29	6.30E-04	11612	UNK	1.07	6.55E-03
11477	TMEM82	1.94	1.49E-02	11545	TRIML1	6.61	3.97E-03	11613	UPK1B	2.19	1.51E-02
11478	TMEM86A	2.30	2.92E-02	11546	TROJAN	3.52	1.42E-02	11614	UPK3A	4.17	1.66E-03
11479	TMEM88	3.10	4.19E-03	11547	TRPA1	1.38	2.51E-02	11615	UPK3BL	2.28	5.10E-03
11480	TMEM8C	2.92	7.34E-03	11548	TRPC4	5.46	2.86E-03	11616	USF1	3.21	5.74E-03
11481	TMIGD1	3.31	1.32E-03	11549	TRPC5	2.35	1.27E-02	11617	USH1G	4.85	2.29E-03
11482	TMOD4	2.62	7.40E-03	11550	TRPM3	4.08	1.13E-02	11618	USH2A	2.77	1.33E-03
11483	TMPRSS11F	1.95	4.09E-03	11551	TRPM8	1.97	2.17E-02	11619	USP35	3.87	2.12E-03
11484	TMPRSS13	5.15	8.61E-05	11552	TRPV2	3.23	2.29E-03	11620	USP36	2.48	1.16E-04
11485	TMPRSS15	7.40	3.83E-03	11553	TRPV3	3.17	3.14E-03	11621	UST	2.38	1.50E-03
11486	TMPRSS3	4.05	6.80E-03	11554	TRPV4	3.12	1.50E-03	11622	UTP14A	1.11	1.18E-02
11487	TMPRSS3	4.72	1.53E-02	11555	TRPV6	2.66	9.63E-03	11623	UTS2	1.77	5.87E-03
11488	TMPRSS4	2.38	1.40E-02	11556	TSC2	2.22	1.16E-02	11624	UTS2D	3.84	5.79E-03
11489	TMPRSS9	3.15	2.09E-02	11557	TSEN54	1.59	6.83E-03	11625	UTS2R	3.75	1.31E-02
11490	TMSB10	2.19	1.35E-02	11558	TSHZ1	1.76	2.61E-02	11626	VANGL2	2.10	1.45E-02
11491	TMTC4	1.52	1.26E-02	11559	TSKU	3.24	1.27E-03	11627	VAT1	2.80	2.58E-03

11628	VAV2	3.65	9.39E-04	11696	Y-LEC1	4.91	1.70E-03	11764	ZNF142	3.71	8.12E-03
11629	VAX1	6.89	1.56E-03	11697	YRK	3.18	1.79E-03	11765	ZNF250	4.92	4.36E-03
11630	VCAM1	2.55	1.56E-02	11698	Z46721	4.19	8.42E-04	11766	ZNF319	4.35	2.86E-03
11631	VDR	5.09	1.25E-04	11699	Z46726	7.33	3.94E-05	11767	ZNF385B	6.87	1.67E-03
11632	VEGFA	1.65	5.70E-03	11700	Z46731	6.08	2.40E-03	11768	ZNF385C	4.05	2.18E-03
11633	VGLL2	4.35	3.14E-02	11701	Z97216	7.53	2.43E-03	11769	ZNF385D	1.85	2.14E-02
11634	VHL	1.52	1.04E-02	11702	Z97218	7.64	1.76E-03	11770	ZNF395	1.47	1.10E-02
11635	VILL	3.71	4.45E-04	11703	Z97220	3.97	5.24E-02	11771	ZNF432	3.43	4.93E-03
11636	VIP	3.61	5.03E-03	11704	Z97224	8.16	4.91E-03	11772	ZNF488	5.01	1.16E-03
11637	VIPR1	1.70	3.49E-02	11705	Z97231	7.80	7.56E-04	11773	ZNF516	2.76	3.62E-04
11638	VMO1	4.68	1.83E-03	11706	Z97233	5.13	1.60E-03	11774	ZNF517	4.73	5.73E-03
11639	VPS37B	2.16	1.29E-02	11707	Z97236	7.14	6.15E-03	11775	ZNF521	3.44	5.60E-04
11640	VPS9D1	2.57	8.53E-03	11708	Z97237	7.98	9.44E-04	11776	ZNF687	1.75	1.01E-02
11641	VSIG1	1.63	2.00E-02	11709	Z97238	5.26	2.57E-04	11777	ZNF804B	4.45	9.82E-04
11642	VSIG4	5.78	1.75E-03	11710	Z97240	5.33	1.20E-03	11778	ZNFX1	2.56	5.59E-04
11643	VSTM2A	5.88	1.87E-04	11711	Z97242	4.37	8.36E-04	11779	ZNRF3	3.41	4.63E-04
11644	VSTM2L	3.28	2.68E-03	11712	Z97244	7.44	2.40E-03	11780	ZP3	2.60	8.20E-03
11645	VSTM4	1.61	1.31E-03	11713	Z97245	5.02	4.31E-03	11781	ZPAX	4.97	3.17E-04
11646	VTN	5.62	2.24E-02	11714	Z97247	4.49	1.98E-03	11782	ZPLD1	3.26	1.34E-02
11647	VWA1	3.30	1.99E-03	11715	Z97248	7.14	2.47E-04	11783	ZRANB1	2.22	3.22E-02
11648	VWA5B2	2.67	2.80E-03	11716	Z97249	7.19	4.94E-04	11784	ZSWIM3	4.16	2.44E-04
11649	WVC2L	1.41	8.15E-03	11717	Z97254	7.23	4.88E-03	11785	ZSWIM5	3.11	4.38E-03
11650	VWDE	1.75	6.29E-03	11718	Z97256	9.21	7.66E-04				
11651	WBSR17	2.89	6.54E-03	11719	Z97259	7.71	7.47E-04				
11652	WDFY3	1.89	1.18E-03	11720	Z97264	4.71	4.82E-03				
11653	WDR31	1.52	5.39E-02	11721	Z97270	4.84	4.61E-03				
11654	WDR54	1.24	4.26E-02	11722	Z97272	7.48	1.16E-04				
11655	WDR6	5.30	1.10E-03	11723	Z97273	7.28	3.08E-04				
11656	WDR7	1.34	2.67E-02	11724	Z97275	7.93	6.68E-05				
11657	WDR72	4.85	1.64E-03	11725	Z97276	5.54	2.78E-04				
11658	WDSU81	2.24	2.95E-02	11726	Z97279	4.54	9.96E-04				
11659	WFIKN1	3.86	1.82E-03	11727	Z97280	4.11	4.29E-03				
11660	WHSC11	1.73	4.35E-02	11728	Z97288	7.00	5.52E-05				
11661	WISP2	2.51	1.19E-02	11729	Z97296	4.73	1.29E-02				
11662	WISP3	2.59	4.55E-03	11730	Z97304	4.57	3.59E-03				
11663	WNK2	2.91	6.65E-03	11731	Z97306	4.15	5.80E-05				
11664	WNT-1	2.87	1.91E-02	11732	Z97325	4.52	2.01E-03				
11665	WNT11	3.61	4.20E-04	11733	Z97330	6.98	2.03E-03				
11666	WNT11B	4.66	3.49E-03	11734	Z97331	5.64	3.51E-03				
11667	WNT16	5.36	1.76E-03	11735	ZAP70	3.72	2.70E-03				
11668	WNT2	2.83	1.02E-02	11736	ZBED1	1.73	1.04E-02				
11669	WNT2B	5.62	2.72E-02	11737	ZBTB16	1.53	5.71E-02				
11670	WNT3	4.28	1.34E-02	11738	ZBTB25	4.05	1.24E-02				
11671	WNT3A	3.94	4.39E-03	11739	ZBTB37	4.34	7.74E-04				
11672	WNT4	4.28	2.41E-02	11740	ZBTB40	2.07	9.56E-03				
11673	WNT6	4.70	2.14E-03	11741	ZBTB42	1.30	5.03E-02				
11674	WNT7A	4.18	4.92E-04	11742	ZBTB5	2.37	1.46E-02				
11675	WNT7B	6.34	2.37E-04	11743	ZBTB6	1.75	7.31E-04				
11676	WNT8A	4.71	3.53E-04	11744	ZBTB7A	1.71	8.28E-04				
11677	WNT8B	5.09	5.19E-04	11745	ZBTB8B	1.36	8.31E-03				
11678	WNT9A	4.40	4.34E-03	11746	ZC3H12D	4.88	2.55E-05				
11679	WNT9B	3.95	4.87E-03	11747	ZC3H7B	1.83	2.23E-02				
11680	WSCD2	5.57	7.70E-04	11748	ZCCHC24	1.47	2.01E-02				
11681	X07176	1.83	1.66E-01	11749	ZDHHC12	1.49	4.84E-02				
11682	X14881	3.94	4.59E-03	11750	ZDHHC18	3.14	7.94E-04				
11683	X61194	3.51	1.35E-03	11751	ZDHHC22	4.41	1.66E-03				
11684	X61196	1.79	3.80E-03	11752	ZDHHC5	2.15	3.33E-02				
11685	XCR1	2.72	1.64E-03	11753	ZFHX4	1.67	8.29E-03				
11686	XIRP1	4.70	4.64E-03	11754	ZFP3	1.82	5.35E-02				
11687	XK	2.86	5.13E-03	11755	ZFPM1	3.15	5.96E-02				
11688	XKR7	4.57	1.27E-02	11756	ZFPM2	3.14	9.14E-04				
11689	XKR8	2.21	5.67E-03	11757	ZFYVE26	4.22	6.55E-03				
11690	XKR9	2.25	2.23E-03	11758	ZGPAT	2.33	4.67E-03				
11691	XKRX	4.11	2.17E-03	11759	ZIC2	4.94	3.63E-04				
11692	XPNEP2	3.74	4.11E-02	11760	ZIC3	4.75	9.76E-04				
11693	XRCC5	2.01	3.73E-03	11761	ZIC4	2.78	1.95E-02				
11694	XYLT1	1.54	9.54E-03	11762	ZMAT4	1.95	3.76E-03				
11695	YIPF7	5.52	2.74E-03	11763	ZMYND11	1.09	5.68E-03				