Shear stress in the intervillous space promotes syncytial formation of iPS cells-derived trophoblasts

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Running Title: Impact of shear stress on iPSC-derived trophoblast

Summary sentence: Fluid shear stress acts on naïve human pluripotent stem cell-derived cytotrophoblasts, causing cell fusion, increased hormone secretion and microvilli formation, and upregulated syncytiotrophoblast specific genes, thereby promoting syncytialization.

Key words: blood flow, cytotrophoblast, intervillous space, naïve human pluripotent stem cell, shear stress, syncytiotrophoblast, syncytium formation

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Abstract

The intervillous space of human placenta is filled with maternal blood, and villous trophoblasts are constantly exposed to the shear stress generated by maternal blood pressure and flow throughout the entire gestation period. However, the effects of shear stress on villous trophoblasts and their biological significance remain unknown. Here, using our recently established naïve human pluripotent stem cells-derived cytotrophoblast stem cells (nCTs) and a device that can apply arbitrary shear stress to cells, we investigated the impact of shear stress on early-stage trophoblasts. After 72 h of exposure to 10 dyn/cm^2 shear stress, nCTs became fused and multinuclear, and mRNA expression of the syncytiotrophoblast (ST) markers, such as glial cell missing 1 (*GCM1*), endogenous retrovirus group W member 1 envelope (*ERVW-1*), chorionic gonadotropin subunit beta 3 (*CGB3*), syndecan 1 (*SDC1*), pregnancy specific beta-1-glycoprotein 3 (*PSG3*), placental growth factor (*PlGF*), and solute carrier family 2 member 1 (*SLC2A1*) were significantly upregulated compared to static conditions. Immunohistochemistry showed that shear stress increased fusion index, human chorionic gonadotropin (hCG) secretion, and human placental lactogen (hPL) secretion. Increased microvilli formation on the surface of nCTs under flow conditions was detected using scanning electron microscopy. Intracellular cyclic adenosine monophosphate (cAMP) significantly increased under flow conditions. Moreover, transcriptome analysis of nCTs subjected to shear stress revealed that shear stress upregulated ST-specific genes and downregulated CT-specific genes. Collectively, these findings indicate that shear stress promotes the differentiation of nCTs into ST.

Introduction

The human placenta is a transient but essential organ for the maintenance of pregnancy and fetal development, as evidenced by the fact that placental insufficiency or dysfunction directly causes preeclampsia or fetal growth restriction [1, 2]. Trophoblasts are the main cells that constitute the placenta and consist of three cell lineages: syncytiotrophoblast (ST), cytotrophoblasts (CTs), and extravillous trophoblasts (EVTs). The ST is a fused multinuclear layer, from which old nuclei are continuously extruded through apoptotic knotting and shedding into the intervillous space, and new nuclei and cytoplasm are supplied by CT differentiation and fusion [3]. Increased intracellular cyclic adenosine monophosphate (cAMP) and subsequent activation of protein kinase A is an indispensable process for ST formation [4]. EVTs, on the other hand, are differentiated from CT and migrate away into the decidua, remodeling the spiral artery or constructing trophoblast plugs during early pregnancy. With the progressive breakdown of trophoblast plugs in the lumen of maternal uterine spiral arteries, which occurs from 7 weeks of gestation onward [5], maternal blood rich in oxygen and nutrition gushes into the intervillous space, and this flow is described as “jets” [6]. Consequently, the intervillous space of the human placenta is filled with maternal blood, and maternal-fetal exchange takes place in the outermost layer of trophoblast cells, forming chorionic villi, ST, which is in direct contact with maternal blood [7]. Thus, villous trophoblasts are constantly exposed to the physical stimuli of maternal blood flow throughout almost the entire gestation period.

Fluid shear stress is one of the most important hemodynamic forces generated by blood pressure and flow [8], and exerts an extremely diverse range of physiological and pathological functions in endothelial cells [9, 10]. Physiological shear stress acts on endothelial cells to increase the release of nitric oxide and prostacyclin, both of which are regarded as vaso-protective factors, thereby causing vessel dilation [9, 10]. Shear stress also has anticoagulant, antithrombotic [11], anti-inflammatory, and antioxidant effects [10]. In contrast, pathological shear stress, such as low or oscillatory shear stress, can induce endothelial inflammation and dysfunction, thereby contributing to

the development of atherosclerosis or thrombosis [8-10]. Therefore, shear stress plays a crucial role in regulating circulatory homeostasis. Using *in silico* approaches or microcomputed tomography, it has become possible to accurately simulate the actual shear stress caused by maternal blood flow in the intervillous space [12, 13]. Shear stress promotes microvilli formation in BeWo trophoblastic cells [14] and increases the expression of placental growth factors (PlGF in ST [15]. However, despite an accumulation of studies on the relationship between endothelial cells and shear stress, the effects of shear stress on villous trophoblasts and their biological significance remain unknown.

In vitro trophoblast research has always been beset by the fundamental issue of selecting the most appropriate experimental materials. Many studies have been conducted using either choriocarcinoma cell lines, including BeWo, JEG-3, and JAR, or immortalized trophoblast cells, such as HTR-8/SVneo. However, these cells differ from normal villous cells in their gene expression profiles and molecular functions [16, 17]. Compared to these cell lines, the primary culture of CTs is more realistic and reliable as long as they are isolated from first trimester villi. However, primary CT cells isolated from full-term placentas are likely to have different characteristics from early villous trophoblast cells; genes related to cell differentiation, proliferation, and angiogenesis are upregulated in the first-trimester placenta compared with those of the full-term placenta [18, 19].

To overcome the problems and limitations associated with conventional trophoblast cell lines and primary cultures, we recently established naïve human pluripotent stem cell (PSC)-derived cytotrophoblast stem cells (nCTs) [20]. Naïve PSCs possess pluripotency observed in the inner cell mass of the pre-implantation epiblast, whereas the pluripotency of primed PSCs is similar to that of post-implantation epiblasts [21, 22]. The nCTs are not only capable of self-renewal but are also able to differentiate into ST and EVTs, and they exhibit gene expression patterns similar to those of CTs during early pregnancy [20, 23]. These cells represent an experimental system that can recapitulate the physiological and chronological differentiation of human trophoblasts *in vitro*. Therefore, nCT can be

regarded as the ideal material to investigate trophoblast differentiation and placental development in the early stages of pregnancy, and we employed these newly established nCTs in our investigation.

In the present study, we hypothesized that fluid shear stress continuously exerted on villous trees influences early trophoblasts. Therefore, we investigated the effects of shear stress on nCTs from the perspectives of morphology, secretory capacity, and gene expression patterns. Based on these observations, we discuss the putative role of shear stress in syncytium formation in nCTs.

Materials and Methods

Cell culture of nCTs and differentiation into nST

The nCTs were generated from naïve pluripotent stem cells (409B2) [20]. The nCTs were cultured in A83-01, CHIR99021, and EGF (ACE) medium (NDiff 227(#Y40002, Takara Bio, Japan), along with 1 μM A83-01 (#2939, Tocris Bioscience, UK), 2 μM CHIR99021 (#SML1046, MO, Sigma-Aldrich, USA), and 50 ng/ml recombinant human EGF (#236-EG, R&D Systems, UK) on iMatrix-511 silk (#892021, Nippi, Japan). The culture medium was replaced every 1–2 days. The cells were passaged every 2–4 days by dissociation with Accutase (#12679-54, Nacalai Tesque, Japan) for 10–15 min and seeded at a 1:3–1:4 split ratio, and 10 μM Y-27632 (#08945-84, Nacalai Tesque, Kyoto, Japan) was added at each passage. All cells were incubated at 37 ℃ with 20% O2 and 5% CO2. The nCTs were cryopreserved in Stem-Cell Banker (#CB047, Takara Bio, Japan), stored in a deep freezer (-80 ℃) overnight and put into liquid nitrogen. To induce ST differentiation, the nCTs were treated with ST medium (NDiff 227, 4% KnockOut Serum Replacement; #10828028, Gibco, MS, USA), 2 μM forskolin (#F-5668, LKT Laboratories, MN, USA).

Fluid shear stress experiments

The nCTs were seeded at 100,000 cells on the μ-Slide$^{0.4}$ I Luer (#80171, Ibidi, DE) and incubated with ACE medium overnight on iMatrix 511 silk. The chamber slides were connected to the Ibidi Pump

System (#10902, Ibidi, DE). The slides were exposed to ST medium for various durations (24 h, 48 h, and 72 h) and shear stress conditions (1 dyn/cm^2, 10 dyn/cm^2, and 40 dyn/cm^2).

The nCTs incubated under static conditions were exposed to the same conditions without shear stress on a 6-well plate (#140675, Thermo Fisher Scientific, Waltham, MS, USA) for RNA isolation, and on 8-well micro chamber slides for immunocytochemistry (#177445, Thermo Fisher Scientific) or scanning electron microscopy (#177402, Thermo Fisher Scientific).

RNA isolation and Quantitative real time PCR

Total RNA was isolated using the RNeasy Micro Kit (#74004, Qiagen, Hilden, Germany). Reverse transcription of 1 ug RNA was performed using Reva Tra ACE (#FSQ-201, TOYOBO, Japan). Real-time quantitative PCR was performed using the Thunderbird Next SYBER qPCR mix (#QPX-201, TOYOBO, Japan) on a StepOnePlus^{TM} real-time PCR system (Applied Biosystems, MS, USA). All data were normalized to *PPIA* (cyclophilin A). Relative mRNA expression levels were determined according to the comparative cycle threshold (ΔΔCT) method. The primer sequences used for amplification are listed in Table 1.

RNA sequencing

RNA sequencing was performed on an Illumina NovaSeq 6000 platform (Illumina, USA) to generate 150 bp paired-end reads. Raw reads were trimmed using TrimGalore to remove low-quality reads and adapter sequences. Reads were mapped to the human GRCh38 genome assembly using STAR [24] and guided by gene models from the Ensembl v98 release. Reads mapped to ribosomal RNA were removed using SAMtools IntersectBed. The number of reads mapped to exons was calculated using featureCounts. Counts were normalized using the R/Binconductor DESeq2 [25] package regularized log (rlog) algorithm. Principal component analysis (PCA) was performed using the R 'prcomp' function based on rlog values. The distance plot was calculated using the Euclidean distance between

146 the samples based on the rlog values. Heatmaps were generated using the R 'pheatmap' function based
147 on rlog values or z-score normalized rlog values.
148
149 **Immunocytochemistry**
150 The nCTs incubated under shear stress or static conditions were fixed with 4% Paraformaldehyde in
151 phosphate buffered saline (PBS) for 10 min. Slides were blocked with 10% normal goat serum
152 (#50062Z, Thermo Fisher Scientific, MS, USA) and 0.3% Triton-X 100 (#355-01, Nacalai Tesque,
153 Japan) for 30 min at room temperature. Next, slides were incubated with primary antibodies overnight
154 at 4 °C. The primary antibodies used were as follows: E-cadherin (1:200, #3195, Cell Signaling
155 Technology, MS, USA) or (1:200, #14472, Cell Signaling Technology, MS, US), human chorionic
156 gonadotropin (hCG) (1:200, #ab9582, Abcam, UK), human placental lactogen (hPL) (1:250, #ab15554,
157 Abcam, UK), and Ki67 (1:200, #14569882, eBioscience, MS, USA). They were then incubated with
158 goat anti-rabbit, anti-mouse, or anti-rat IgG (Alexa Fluor 488 or 594; Thermo Fisher Scientific) for 1
159 h. After washing with PBS, ProLong Gold antifade mountant with 4^{0},6-diamidino-2-phenylindole
160 (#P36935, Thermo Fisher, MS, US) was applied, and slides were observed under a confocal laser
161 scanning microscope (TCS SP8, Leica Microsystems, DE). Cell fusion was quantified using the fusion
162 index, (N–S)/T, as previously reported, where N is the number of nuclei in the syncytia, S is the number
163 of syncytia, and T is the total number of nuclei [26]. For calculation of the fusion index, three
164 microscopic images were randomly observed on the same slide, and the average was calculated. Then,
165 similar culture experiments were independently repeated three times (n = 3). The hCG- and hPL-
166 positive cell areas were quantified using image J software (positive cell area/cell area) × 100 (%).
167 Ki67-positive nuclei were counted using image J software (positive nuclei/total nuclei). For calculating
168 hCG and hPL positive area and Ki67 positive nuclear, five pictures were taken randomly on the same
169 slide, and the average was calculated. Similar culture experiments were independently repeated three
170 times (n = 3).

Scanning electron microscopy

The nCTs incubated under shear stress or static conditions were fixed with 4% PFA and 2% glutaraldehyde (#17703-92, Nacalai Tesque, Kyoto, Japan) at 4 ℃ overnight. After post-fixation with 1% OsO4 for 2 h, the samples were dehydrated, dried, and coated with a thin layer of platinum. Specimens were examined using a JEOL JSM-7900F scanning electron microscope (JEOL, Tokyo, Japan).

Measurement of intracellular cyclic adenosine monophosphate (cAMP)

The nCTs were seeded on the μ-Slide$^{0.4}$ I Luer overnight and thereafter incubated in ACE medium, forskolin deficient ST medium, and ST medium, under static condition or flow conditions (10 dyn/cm^2) for 30 min. After washing with PBS, the cells were lysed in 0.1 M hydrochloric acid and incubated for 20 min at room temperature. Then lysates were collected and homogenized using a 20-gauge needle then centrifuged (600 × g for 5 min at room temperature) to pellet cellular debris. The supernatant was collected and stored in a deep freezer (-80 ℃). Intracellular cAMP levels were measured using a Direct cAMP ELISA kit (#ADI-900-066, Enzo Life Sciences, NY, USA) following the manufacturer's instructions.

Inhibition or activation of mechanosensors

The 1 μM Cis-22a (#7118, Tocris Bioscience, UK) and 10 μM 5-BDBD (#SML0450, Sigma-Aldrich, MO, USA) were added to the medium to inhibit mechanosensors (TRPV6 and P2X4, respectively), while 5 μM ATP (#10406-61, Nacalai Tesque, Japan) or Yoda1 (#21904, Cayman Chemical, MI, USA) were added to activate them (P2X4, or Piezo1, respectively).

Statistical analysis

All experiments were repeated independently at least three times with similar results. The exact number of replicates used are indicated within individual figure legends. The results are expressed as mean ± standard error of the mean (SEM) or standard deviation (SD). Statistical analysis was performed using an unpaired two-tailed Student's t-test or ordinary one-way analysis of variance (ANOVA), followed by Dunnett's multiple comparison test. Values of $P < 0.05$ were considered statistically significant. All statistical analyses were performed using GraphPad Prism 8.0 (GraphPad Software, CA, USA).

Results

Shear stress induces morphological changes and the upregulation of syncytium markers' in nCTs.

First, we observed the morphological changes in nCTs subjected to shear stress. The nCTs were cultured in ST medium to stimulate ST differentiation. After 48 h of exposure to 10 dyn/cm^2 shear stress, cellular density increased (Figure 1A, 1B), and the number of vesicles observed in the cytosol increased (Figure 1B). After 72 h of exposure to 10 dyn/cm^2 shear stress, the number of vesicles increased further, and the cells became fused and multinuclear compared to the static conditions (Figure 1C, 1D). These observations led us to hypothesize that shear stress accelerates syncytium formation in nCTs.

Next, we assessed the mRNA expression of well-known trophoblast syncytialization markers. Glial cell missing 1 (*GCM1*) and its target gene, endogenous retrovirus group W member 1 envelope (*ERVW-1*), also known as synticin-1, are responsible for the fusion of cytotrophoblasts with the overlying syncytium [27-29]. ST secretes chorionic gonadotropin subunit beta 3 (*CGB3*), pregnancy specific beta-1-glycoprotein 3 (*PSG3*), and placental growth factor (*PlGF)*. Syndecan 1 (*SDC1*) encodes proteoglycans on the surface of ST. Solute carrier family 2 member 1 (*SLC2A1*) encodes a glucose transporter on the surface of ST. Real-time qPCR revealed that culturing under static

conditions spontaneously increased the mRNA expression of the ST markers *GCM1, ERVW-1, CGB3, SDC1, PSG3, PlGF* and *SLC2A1* as a function of time (Figure 1E). Shear stress for 48−72 hours further increased the expression of *GCM1, ERVW-1, CGB3, SDC1, PSG3, PlGF* and *SLC2A1* compared to static conditions (Figure 1E). The degree of increase in mRNA expression was lower at 48 h than at 72 h, except for that of *GCM1* (Figure 1E). To determine whether these gene expression changes varied with the intensity of shear stress, nCTs were cultured for 24 h under shear stresses of 1 dyn/cm^2, 10 dyn/cm^2, and 40 dyn/cm^2. The mRNA expression of *GCM1*, *ERVW-1* and *PlGF* was upregulated under all shear stress conditions compared to that under static conditions, and this upregulation was almost independent of the intensity of shear stress (Supplementary Figure S1). Increases in *CGB3* expression were also observed, but were not statistically significant. This was probably because the incubation time (24 h) was too short to express increased *CGB3* as ST differentiation.

Shear stress promotes cell fusion and hormone-production in nCTs.

Next, we investigated the ST differentiation of nCTs induced by shear stress. The nCTs were incubated in ST medium for 72 h under static conditions (static) or 10 dyn/cm^2 shear stress (flow). Cell fusion was analyzed by immunofluorescence for E-cadherin, which clarified the cell membranes. Shear stress significantly decreased the area surrounded by E-cadherin, indicating increased cell fusion and the production of multinuclear fused cells (Figure 2A). The fusion index increased 3.0-fold under the flow conditions compared to that under the static conditions ($P < 0.05$) (Figure 2A, graph). The fused cells exhibited increased hCG positive area (Figure 2B). It was 3.05-fold higher under the flow conditions than that under the static conditions ($P < 0.05$) (Figure 2B, graph). Furthermore, nCTs exposed to the flow conditions also exhibited increased hPL positive area, suggesting that nCTs were well differentiated into ST and acquired hormone-secreting capacity ($P = 0.07$) (Figure 2C). Finally, we assessed the proliferation of the nCTs under the flow conditions. Under static conditions, nCTs exhibited a high proliferation capacity, as shown by the immunofluorescence of Ki67 (Figure 2D). In

246 contrast, nCT cells exposed to flow conditions exhibited a remarkable reduction in Ki67 expression,
247 indicating that these trophoblasts lost their proliferation ability during the process of differentiation to
248 ST ($P = 0.06$) (Figure 2D).
249
250 **Shear stress stimulates microvilli formation on the surface of nCTs.**
251 Next, we examined the cell surface using scanning electron microscopy to assess microvilli formation,
252 which is a characteristic feature of STs. In nCTs, microvilli were observed around the cell walls and
253 the cell boundaries were clear (Figure 3A, D). Under static conditions, the number of microvilli
254 increased, and the cell boundaries became unclear (Figure 3B, E). Under flow conditions, the cell
255 boundaries became almost unrecognizable because of the increased number of microvilli (Figure 3C,
256 F). These findings suggested that microvillus formation was stimulated by shear stress.
257
258 **Shear stress increases intracellular cAMP in nCTs**
259 Next, we assessed intracellular cAMP in nCT under the static and flow conditions (Figure 4). When
260 cultured in forskolin deficient ST medium, shear stress slightly, but not significantly, increased
261 intracellular cAMP. However, we found a significant increase in intracellular cAMP in nCT incubated
262 in ST medium under flow conditions, compared to that of static conditions. This data indicated that
263 shear stress alone might not be able to promote syncytial formation, but shear stress had an additive
264 effect on forskolin-induced ST differentiation.
265
266 **Transcriptome analysis of nCTs subjected to shear stress.**
267 Finally, the transcriptome of nCTs subjected to shear stress was comprehensively analyzed using RNA
268 sequencing. The nCTs were incubated in ST medium for 72 h under static conditions (Static) or 10
269 dyn/cm^2 shear stress (Flow), or in ACE medium for 72 h (nCT). The total mRNA levels under the
270 three conditions were then compared. PCA based on all transcriptomes revealed that three cell groups

clustered separately in the order nCT, Static, and Flow along the PC1 axis, which explained 66.2% of the variance (Figure 5A). Several ST-specific genes, such as *INHA*, *GSTA1*, *PLAC4*, *CGB5*, *CGB2*, and *CGB3* were identified top 50 loading factors of PC1 (Supplementary Table 1A). The loading factors of PC2 are shown in Supplementary Table 1B, and ST-specific genes were not identified among them, although PC2 explained only 15.1% of variance. Then, we assessed the differences in gene expression on the 17,931 genes between Static and Flow (Supplementary Table 2). Significant differentially expressed genes (DEGs) were identified with |log2 Fold Change| > 2 and false discovery rate < 0.05, and represented in a volcano plot (Figure 5B). 1,468 genes, including ST specific genes such as *INHA*, *PSG1*, *CGB3*, *CGB5*, *ENDOU*, *CGA*, *PGF*, and *PSG3*, were up-regulated, and 2,020 genes were down-regulated in Flow compared to Static.

Next, we compared our RNA seq data with previously published comprehensive CT-, ST-, and EVT-specific gene data sets [30]. Xiang et al. cultured donated human embryos for 6–14 days post-fertilization and analyzed the gene expression profiles of 557 cells using single-cell RNA sequencing. They extracted trophoblast subpopulations and categorized them into six groups: pre-implantation CT, post-implantation CT, early ST, ST, early EVT, and EVT, and identified 1,540 stage-specific genes in trophoblasts: 268 pre CT, 100 post CT, 156 early EVT, 462 EVT, 251 early ST, and 303 ST genes [30]. Among them, we removed 112 genes, because those expressions were very low in our samples (with < 10 reads per sample). Then we analyzed the expression levels of 1,428 genes using our RNA sequence data: 215 pre CT, 98 post CT, 154 early EVT, 431 EVT, 242 early ST, and 288 ST genes (Figure 5B, Supplementary Table 3). Compared to stage-specific genes, our transcriptome analysis revealed that ST medium treatment (Static) upregulated ST-specific genes, especially early ST genes, and downregulated CT-specific genes. In the Flow group, the expression of early ST genes was slightly decreased and the expression of ST genes was stronger than those of the Static group. Additionally, the decline in CT genes expression is even more prevalent. EVT genes tended to decrease the most in the Flow group.

296 Finally, we selected genes with trophoblast lineage identity and compared their expression
297 patterns (Figure 5D). The results revealed that the pluripotent gene (*POU5F1*) was decreased in Static
298 and Flow, and trophectoderm-specific genes (*CDX2, HAND1*, and *SLC12A3*) were lost in three groups.
299 ST-specific genes (*INHA, PSG3, PSG5, CGA, CGB3*, and *CGB5*) were upregulated in Static and Flow,
300 and the trend appeared to be stronger in Flow. Furthermore, the upregulation of *CSH1* which encodes
301 placental lactogen is clear in Static and Flow. The expression of transcription factors for trophoblast
302 differentiation (*TFAP2C* and *GATA2*) and trophoblast markers (*KRT7*), and EVT-specific genes
303 (*HLAG, MMP2, ERBB2*) did not vary significantly among the three groups. These data indicated that
304 the shear stress-loaded nCTs (Flow) differentiate in the same direction as ST (Static).
305 Collectively, these gene expression patterns suggested that shear stress exerted a stimulatory
306 effect on the differentiation of nCTs into ST.
307
308 **Discussion**
309 In the present study, using naïve human pluripotent stem cell-derived cytotrophoblast stem cells,
310 we found that fluid shear stress stimulated ST differentiation, which was demonstrated
311 morphologically, endocrinologically, and in terms of comprehensive gene expression patterns.
312 Morphologically, ST exhibits several characteristics that are manifested by shear stress. Fluid
313 shear stress not only promoted cell fusion and multinucleation, but also increased the density of the
314 cytoplasm and the number of vesicles. These changes are consistent with the features of ST, which
315 contain a large number of organelles because of their high metabolic and synthetic functions [3].
316 Meanwhile, in the process of syncytialization from the CT, prominent microvilli formation occurs,
317 providing a fetomaternal contact zone. Thus, microvillus formation is also recognized as one of the
318 distinguishing features of ST. Our electron microscopic findings of increased microvilli provide
319 additional morphological evidence that shear stress induces syncytium formation.

Gene expression analysis also revealed that shear stress contributes to CT differentiation into ST. In addition to well-known representative ST markers, such as *GCM1* and *ERVW-1* [27-29], we first analyzed the expression of *CGB3*, *SDC1*, and *PSG3*. These three genes were used in our previous study as markers to prove that nCT differentiated into ST [20]. Consistent with the report by Lecarpentier et al., *PlGF* expression was also upregulated by fluid shear stress. Furthermore, in transcriptome analysis, we compared the gene expression patterns of nCTs with or without shear stress with the scRNA-seq data published by Xiang et al. [30], using the same method used previously to show that nCTs, nST, and nEVT express genes specific to CT, ST, and EVT, respectively [20]. Consequently, we revealed that gene changes induced by shear stress resembled the gene expression pattern of ST. To the best of our knowledge, this is the first study to examine the effect of shear stress on human trophoblast cells derived from naïve PSC using omics analysis. We not only individually compared the expression of representative marker genes associated with syncytialization and trophoblast differentiation, but also comprehensively compared the genes whose expression changes in CT, EVT, and ST, providing precise information on the effect of shear stress on trophoblast differentiation.

Precise measurement of shear stress applied to chorionic villi *in vivo* is almost impossible because the structural architecture of the intervillous space, unlike that of blood vessels, is extremely intricate. We initially cultured nCTs under various shear stresses of 1 dyn/cm^2, 10 dyn/cm^2, and 40 dyn/cm^2, and subsequent analysis revealed that upregulation of representative ST marker mRNA was almost independent of the degree of shear stress applied. Lecarpentier et al. formulated three different computational models of intervillous space and estimated that the average shear stress applied to the chorionic villi is less than 5 dyn/cm^2 [31], and they revealed that shear stress of 1 dyn/cm^2 promoted PlGF in human STs in primary cell culture [15]. Roth et al. employed advanced high-end supercomputing resources and three-dimensionally reconstructed the spiral artery and the intervillous space in a normal pregnancy [12]. According to their simulation, the surface of villous trees is exposed

to a shear stress of approximately 10–20 dyn/cm^2, whereas in the pathological situation, such as preeclampsia, shear stress was estimated to be elevated approximately 30–50 dyn/cm^2 [12]. Based on our preliminary experiment and these simulation studies, we applied a shear stress of 10 dyn/cm^2 to the nCTs as a physiological situation in the present study. Regardless of whether a shear stress of 10 dyn/cm^2 truly mimics the clinically normal intervillous space, the fact that shear stress of 10 dyn/cm^2, plays a role in trophoblast differentiation should be noted.

A limitation of this study is that the precise underlying mechanisms by which shear stress promotes syncytium differentiation in nCT remains to be elucidated. Generally, shear stress is sensed through mechanotransduction, and downstream signaling pathways are activated. The P2X4 receptor, transient receptor potential channel family vanilloid subfamily member 6 (TRPV6), and Piezo1 have been identified and reported as representative mechanosensors. We incubated nCTs with a vehicle, specific P2X4 inhibitor (5-BDBD), or specific TRPV6 inhibitor (Cis-22a) under 10 dyn/cm^2 shear stress for 48 h. The mRNA expression of ST markers was not suppressed by these inhibitors (Supplementary Figure 2SA). In contrast, neither the P2X4 stimulator (ATP) nor the selective activator of Piezo1 (Yoda1) increased ST marker mRNA expression (Supplementary Figure 2SB), for 48 h treatment. These findings suggest that ST differentiation by shear stress is likely mediated by mechanosensors other than the conventional P2X4, TRPV6, or Piezo1, and that the mechanosensing system in trophoblasts is not standalone.

Nevertheless, we revealed that shear stress significantly increased intracellular cAMP levels in the presence of forskolin. This finding is consistent with the results in the study conducted by Lecarpentier et al., in which they found a considerable increase in intracellular cAMP in fluid shear stress and subsequent PlGF production in primary ST [15]. It is well acknowledged that increased intracellular cAMP and activation of cAMP-dependent protein kinase play the critical role of syncytialization [4] . Our data suggest that the explication of the mechanism underlying increase in

intracellular cAMP in response to flow condition would contribute to the comprehension of the pathway through which shear stress promotes syncytialization.

Although the detailed mechanisms by which CTs differentiate into ST are complex and are not fully understood, our findings are unique in that they reveal that the physical stimulus of shear stress is important for placental development. The importance of physiological shear stress has been reported in the fields of thrombopoiesis and osteoporosis, as physical regulators of turbulent flow promote platelet biogenesis from human PSCs [32], and the differentiation of osteoblasts is modulated by shear stress, which is physiologically relevant through the activation of the Notch signaling pathway [33]. *In vivo*, cells that constantly receive flow velocity stimulation may be efficiently utilized under normal clinical conditions.

Overall, our investigation has shed light on the effects of fluid shear stress on villous trophoblast differentiation; this seems to be a very rational and purposeful biological mechanism, and at the same time has engendered a novel query: can abnormal flow velocity exert deleterious influence upon trophoblast cells? Resolving this new question might help elucidate the pathogenesis of complicated pregnancies caused by placental insufficiency, such as preeclampsia or fetal growth restriction.

Supplementary Data

Supplementary data are available at Biology of Reproduction online.

Data availability

The data supporting the findings of this study are available from the corresponding authors upon request. RNA-sequencing data have been deposited in the Gene Expression Omnibus database, under accession number GSE234506.

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Conflict of interest

None declared.

Author contributions

A.I. designed and performed the experiments. A.I., Y.C., and E.K. wrote the manuscript. M.K., Y.C., Y.M., E.Y., M.T., Y.K., Y.U., S.I., S.T., H.M., Y.T. and M.M. designed and advised on the studies. E. K. supervised the study.

Figure legends

Figure. 1 Shear stress stimulates cell fusion and upregulates the syncytium related mRNA expression. Bright images of cytotrophoblasts derived from naïve pluripotent stem cells (nCTs) incubated in syncytiotrophoblast (ST) medium for 48 h under static conditions (**A**) and 10 dyn/cm^2 shear stress (**B**). Bright-images of nCTs incubated for 72 h under static conditions (**C**) and 10 dyn/cm^2 shear stress (**D**). The arrows indicate increased cell density. The arrowheads indicate multiple vesicles in the cytoplasm. The dotted line shows fused multinuclear cells. Representative images of three independent experiments (n= 3). Scale bars; 100 μm.

(**E**) Relative mRNA expression of glial cell missing 1 (*GCM1*), endogenous retrovirus group W member 1 envelope (*ERVW-1*), chorionic gonadotropin subunit beta 3 (*CGB3),* syndecan 1 (*SDC1),*

419 pregnancy specific beta-1-glycoprotein 3 (*PSG3),* placental growth factor (*PlGF),* and solute carrier
420 family 2 member 1 (*SLC2A1)* in nCTs and nCTs cultured in ST medium for 48 h or 72 h under static
421 conditions or 10 dyn/cm^2 shear stress. mRNA expression normalized to cyclophilin A *(PPIA)* was
422 analyzed using real-time PCR. Data are presented as the mean ± SEM from three independent
423 experiments (n = 3). Data significance between static and flow conditions was assessed using an
424 unpaired two-tailed Student's t-test; *$P < 0.05$; **$P < 0.01$; ***$P < 0.001$.
425
426 **Figure. 2** Shear stress stimulates cell fusion and hormone secretion, and downregulates cell
427 proliferation marker Ki67.
428 The nCTs were incubated under static conditions for 72 h in A83-01, CHIR99021, and EGF (ACE)
429 medium (**nCT**), under static conditions in ST medium (**Static**), or under 10 dyn/cm^2 shear stress in ST
430 medium (**Flow**). The cell membrane was stained with E-cadherin (green) (**A**-**C**), and nuclei were
431 stained with DAPI (blue)(**A**-**D**), hCG(red)(**B**), hPL(red)(**C**), and Ki67(red)(**D**). Representative images
432 of three independent experiments (n= 3). Five pictures were taken randomly for each experiment, and
433 the fusion index and positive area (%) were calculated using ImageJ software. The average of the five
434 images was calculated, and the data from three independent experiments (n = 3) were presented as the
435 mean ± SEM.
436 Data significance between static and flow conditions was assessed using an unpaired two-tailed
437 Student's t-test; ** $P < 0.01$. Scale bars; 100 μm.
438 Ecad, E-cadherin; hCG, human chorionic gonadotropin; hPL, human Placental Lactogen, DAPI:4',6-
439 Diamidino-2-phenylindole, dihydrochloride.
440
441 **Figure. 3** Shear stress stimulates microvillus formation of trophoblast cells.

Scanning electron microscopy (SEM) images of nCTs (**A**, **D**), and nCTs cultured using ST medium for 72 h under static conditions (Static) (**B**, **E**) or 10 dyn/cm^2 shear stress (Flow) (**C**, **F**). Representative images of three independent experiments (n= 3). Scale bars: 10 μm.

A, **B**, **C**: x2000

D, **E**, **F**: x5000

Figure. 4 Shear stress increases intracellular cAMP levels.

The nCTs were incubated in in A83-01, CHIR99021, and EGF (ACE) medium, forskolin deficient ST medium, and ST medium under static or flow (10 dyn/cm^2) conditions for 30 min, thereafter intracellular cAMP levels were measured. Data are presented as the mean ± SEM from three independent experiments (n = 3). Data significance was assessed using ordinary one-way analysis of variance (ANOVA), followed by Dunnett's multiple comparison test.

Figure. 5 Differentiation of nCT into ST is accelerated by shear stress.

Transcriptome analysis of nCTs cultured in ACE medium for 72 h (**nCT**) and ST medium for 72 h under static conditions (**Static**) or 10 dyn/cm^2 shear stress (**Flow**). Each condition contains three samples (n = 3).

A) The principal component analysis (PCA) of nine samples of three conditions

B) Volcano plots showing the comparison of differentially expressed genes (DEGs) between Static and Flow. Significant DEGs were identified with |log2 Fold Change| > 2 and false discovery rate < 0.05. The red scatters in the right half indicate 1,468 up-regulated DEGs, and those in the left half indicate 2,020 down-regulated DEGs in Flow compared to Static.

C) Heatmap representation of stage-specific genes defined in cultured human embryos (Xiang et al., 2020). Pre-CT: pre-implantation cytotrophoblasts, Post CT; post-implantation cytotrophoblasts.

The Z-scores of regularized log-transformed count data for 1428 genes are shown.

D) Regularized log-transformed count data for 18 genes inferred from trophoblast lineage identity. (Xiang et al., 2020)

Supplementary Figure. S1 Shear stress changes the mRNA expressions of nCTs

Relative mRNA expression of *GCM1, ERVW-1*, *CGB3* and *PlGF* in nCTs cultured with or without various levels of shear stress (1 dyn/cm^2, 10 dyn/cm^2, 40 dyn/cm^2). The nCTs were seeded in ACE medium overnight, cultured for 24 h under static or fluid flow conditions using ST medium, and mRNA expression normalized to *PPIA* was analyzed by real-time PCR. Data from three independent experiments are presented as the mean ± SEM (n = 3). Data significance was assessed using ordinary one-way analysis of variance (ANOVA), followed by Dunnett's multiple comparison test; **P* < 0.05, ***P* < 0.01, ****P* < 0.001.

Supplementary Figure. S2 Mechanosensory inhibitors (5-BDBD, cis-22a) did not suppress syncytium markers. The mechanosensory stimulators (ATP, Yoda1) did not stimulate syncytium markers.

A) The relative fold expression of syncytium marker mRNA. The nCTs were incubated for 48 h under 10 dyn/cm^2 shear stress. The flow medium was ST medium with 0.02% DMSO (vehicle), 10 μM 5-BDBD (P2X4 inhibitor), and 1 μM Cis-22a (TRPV6 inhibitor).

Data from three independent experiments are presented as the mean ± SEM (n = 3). Data significance was assessed using ordinary one-way ANOVA, followed by Dunnett's multiple comparison test; **P* < 0.05.

B) Relative fold expression of syncytium marker mRNA. The nCTs were incubated for 48 h in ST medium with 0.02% DMSO (vehicle), 5 μM ATP (P2X4 stimulator), and 5 μM Yoda1(selective activator of Piezo 1).

Data from three independent experiments are presented as the mean ± SD (n = 3). Data significance was assessed using ordinary one-way ANOVA, followed by Dunnett's multiple comparison test.

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Table 1. Primer sequences used for qPCR

Gene	Forward	Reverse
Human		
PPIA	5'- CCACCGTGTTCTTCGACATTG-3'	5'- TTTCTGCTGTCTTTGGGACCTT -3'
PlGF	5'- CAGAGGTGGAAGTGGTACCCTTCC -3'	5'- CGGGATCTTTAGGAGCTGCATGGTGAC -3
ERVW-1	5'-TGAACACTAGTCACTGGGTTCCATG-3'	5'-AATTGGGGCGTAGTAGAGGTTGTG -3'
GCM1	5'-ATCTACCTGAGACCTGCCATCT-3'	'5'-CACAGTTGGGACAGCGTTT-3'
CGB3	5'-ACCCTGGCTGTGGAGAAGGAG-3'	5'-ATGGACTCGAAGCGCACATCG-3'
SDC1	5'-CTTCACACTCCCCACACAGA-3'	5'-GTATTCTCCCCCGAGGTTTC-3'
PSG3	5'-TCGTAAAGCGAGGTGATGGG-3'	5'-AAGCTCACAGCCTCCATGTC-3'
SLC2A1	5'-GCTTCCTGCTCATCAATCGTAA-3'	5'-CGACCCTCTTCTTTCATCTCCT-3'

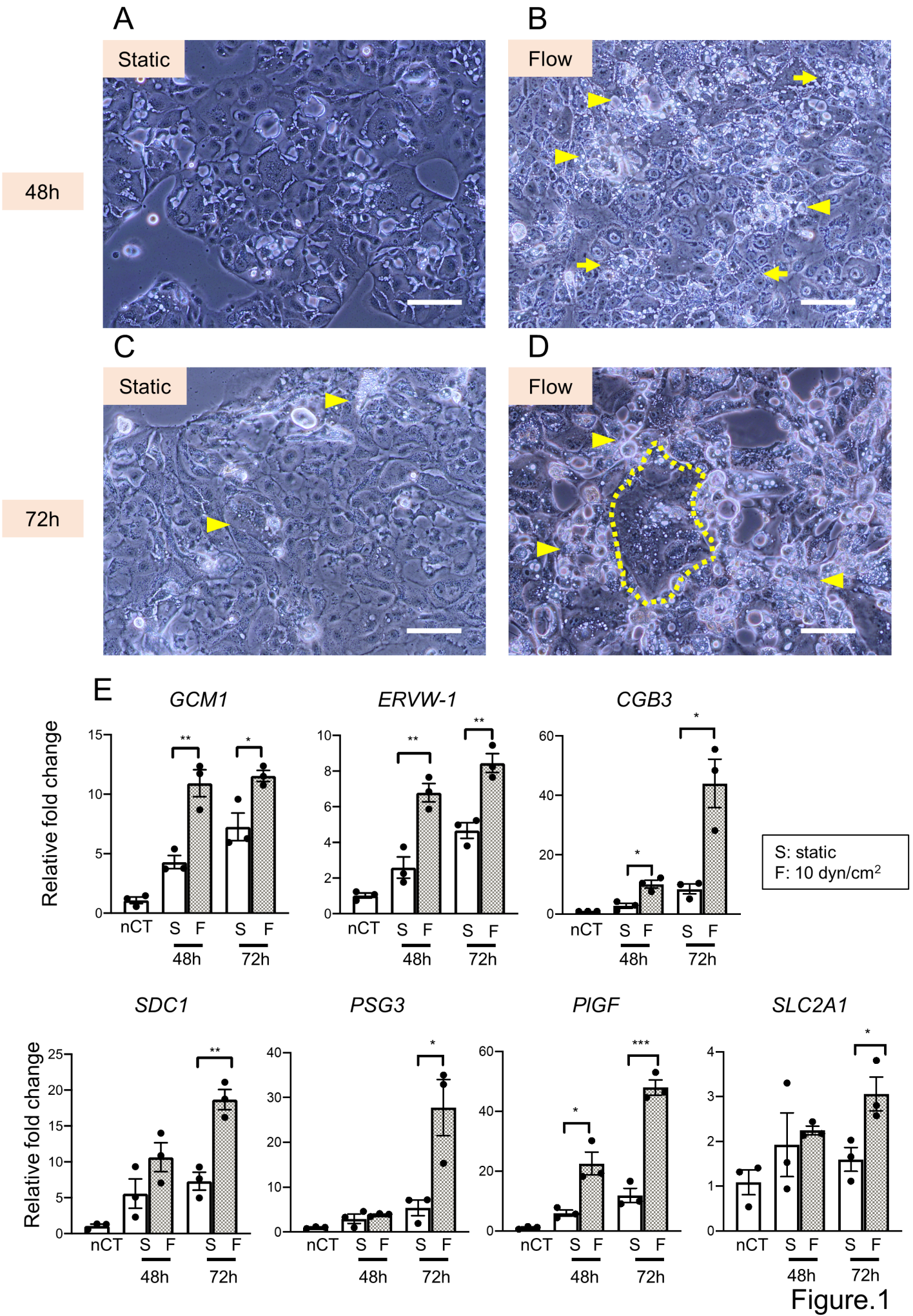

A
B
Static
Flow
48h
C
D
Static
Flow
72h
E
GCM1
ERVW-1
CGB3
Relative fold change
nCT
S
F
48h
72h
S: static
F: 10 dyn/cm2
SDC1
PSG3
PIGF
SLC2A1

Figure.1

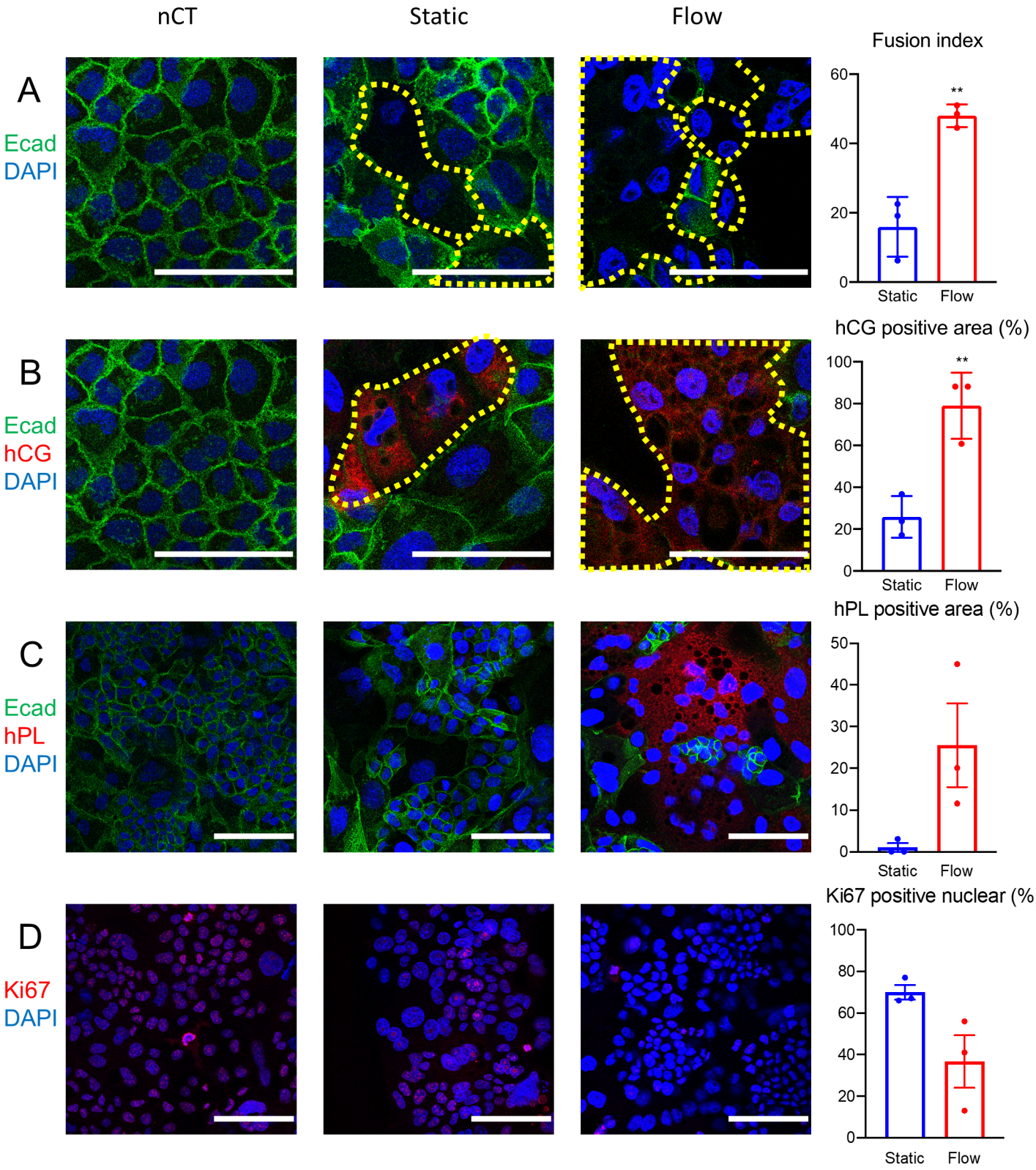

nCT
Static
Flow
A
Ecad
DAPI
Fusion index
60
40
20
0
**
Static
Flow
B
Ecad
hCG
DAPI
hCG positive area (%)
100
80
60
40
20
0
**
Static
Flow
C
Ecad
hPL
DAPI
hPL positive area (%)
50
40
30
20
10
0
Static
Flow
D
Ki67
DAPI
Ki67 positive nuclear (%)
100
80
60
40
20
0
Static
Flow

Figure.2

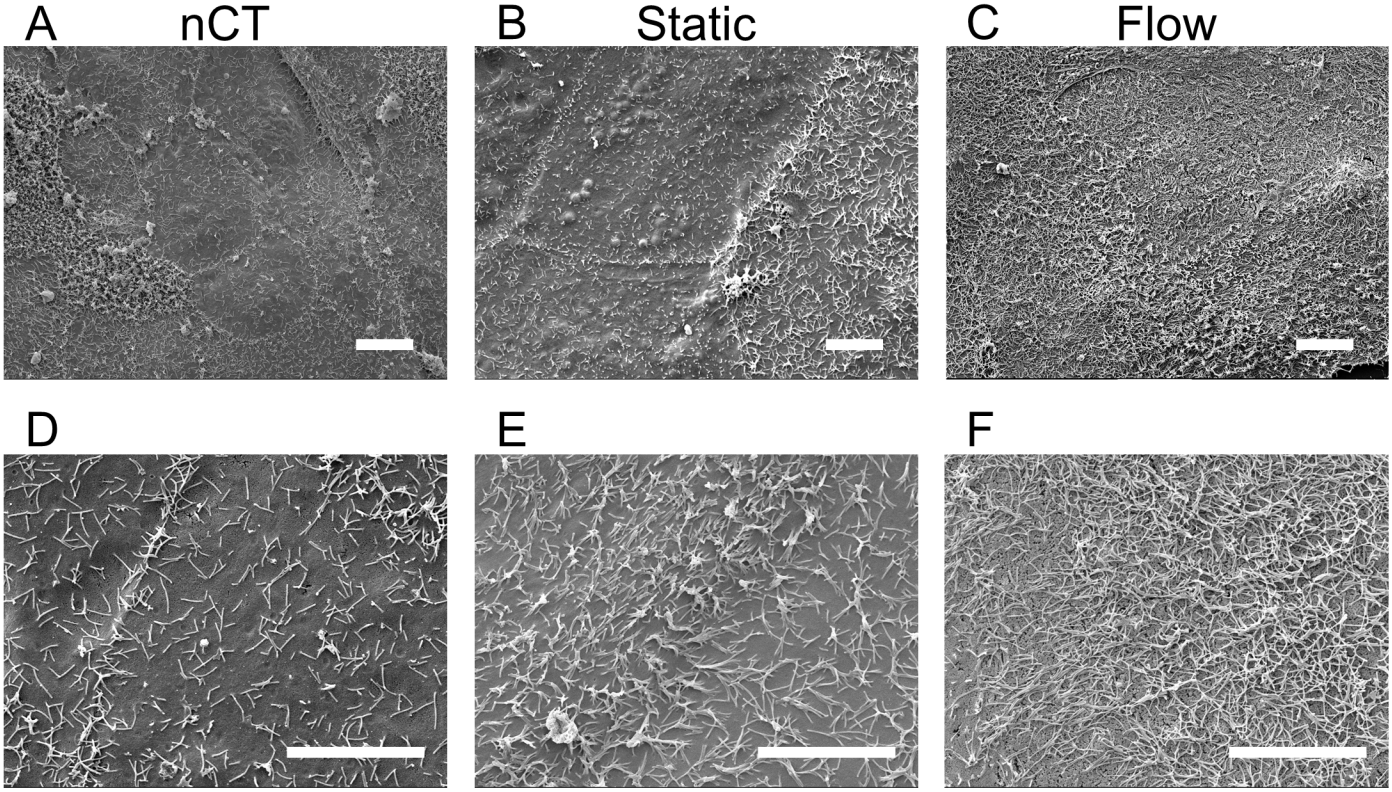


Figure.3

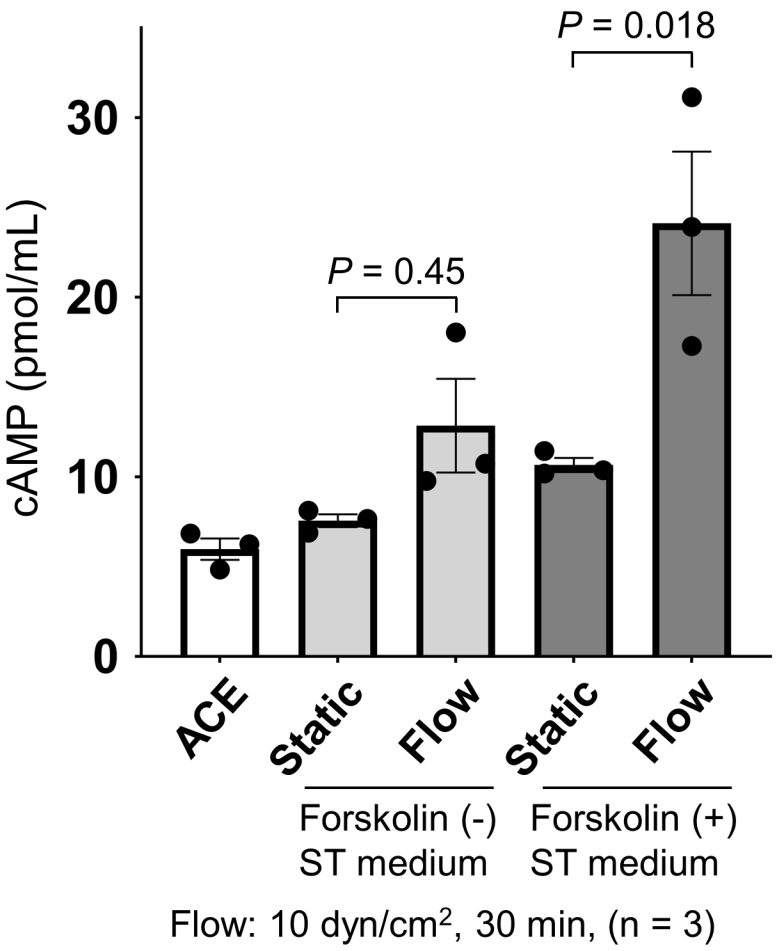

P = 0.018
P = 0.45
30
20
10
0
cAMP (pmol/mL)
ACE
Static
Flow
Static
Flow
Forskolin (-)
ST medium
Forskolin (+)
ST medium
Flow: 10 dyn/cm2, 30 min, (n = 3)

Figure.4

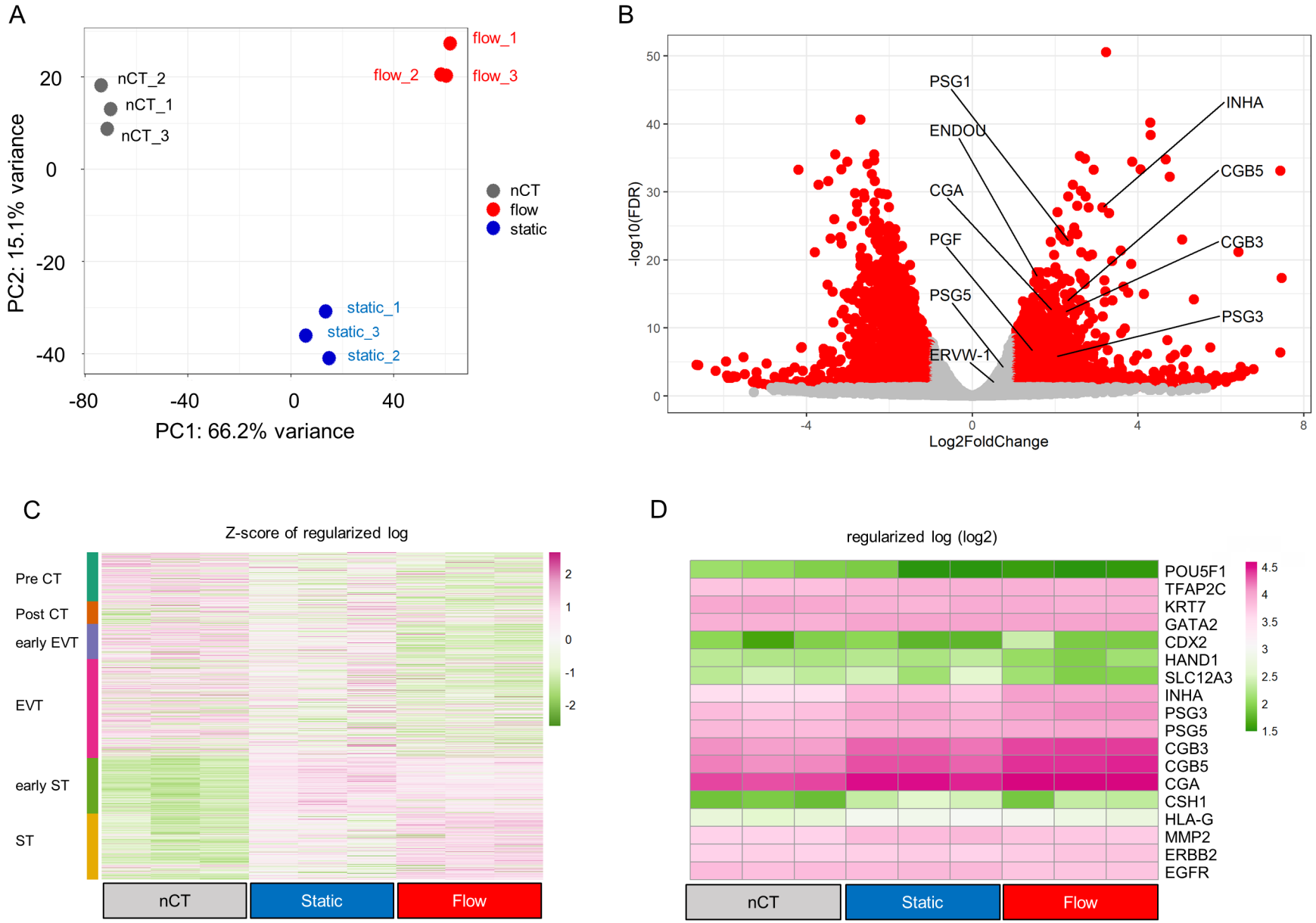
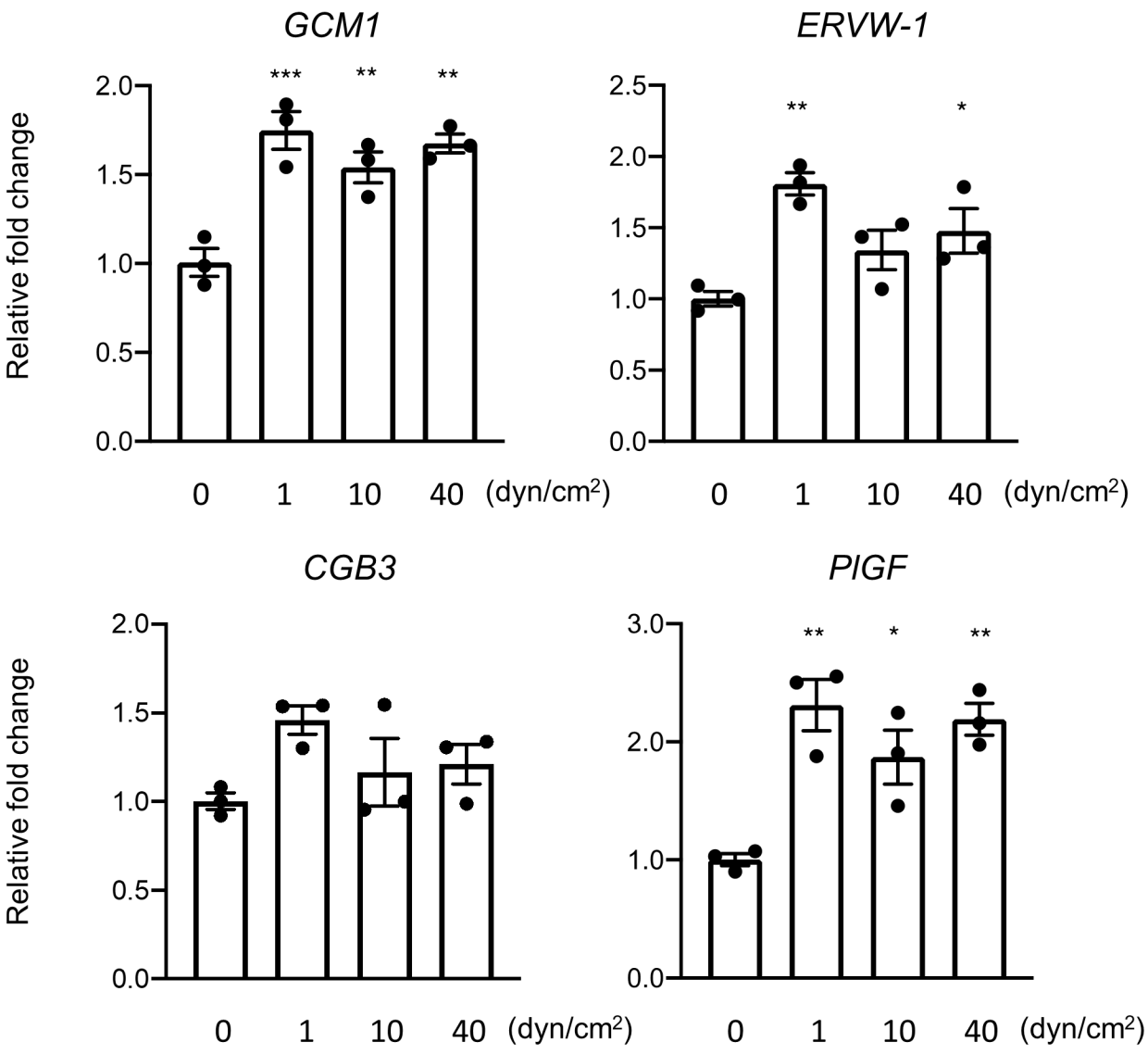
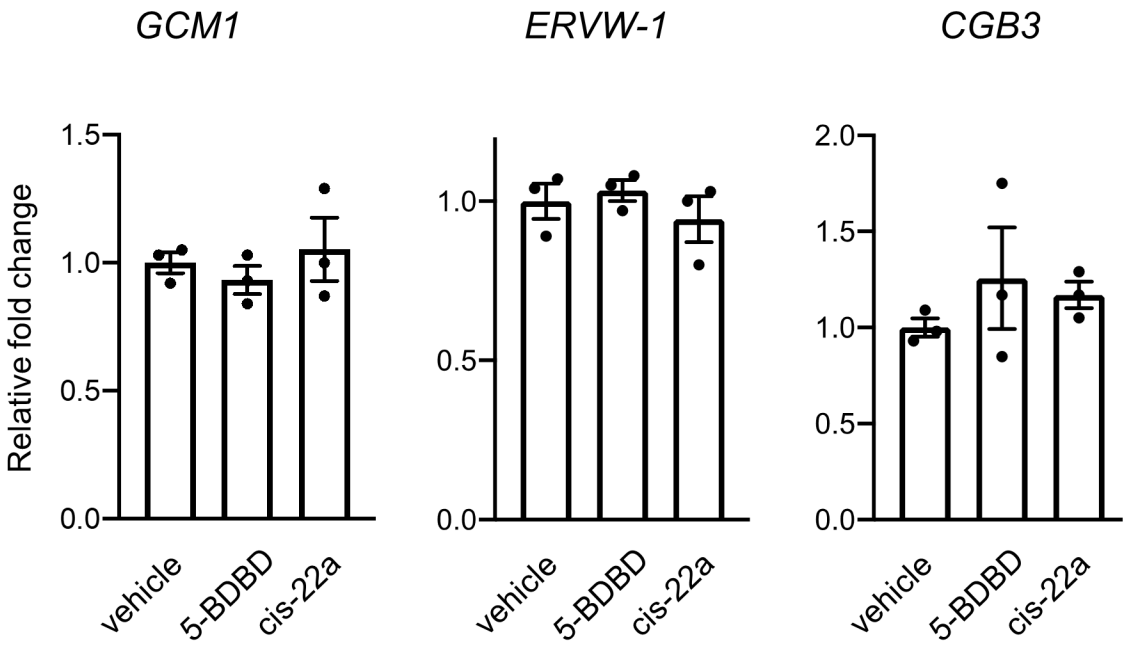

A
flow_1
flow_2
flow_3
nCT_2
nCT_1
nCT_3
static_1
static_3
static_2
nCT
flow
static
PC2: 15.1% variance
PC1: 66.2% variance
B
PSG1
ENDOU
CGA
PGF
PSG5
ERVW-1
INHA
CGB5
CGB3
PSG3
-log10(FDR)
Log2FoldChange
C
Z-score of regularized log
Pre CT
Post CT
early EVT
EVT
early ST
ST
nCT
Static
Flow
D
regularized log (log2)
POU5F1
TFAP2C
KRT7
GATA2
CDX2
HAND1
SLC12A3
INHA
PSG3
PSG5
CGB3
CGB5
CGA
CSH1
HLA-G
MMP2
ERBB2
EGFR
nCT
Static
Flow

Figure.5

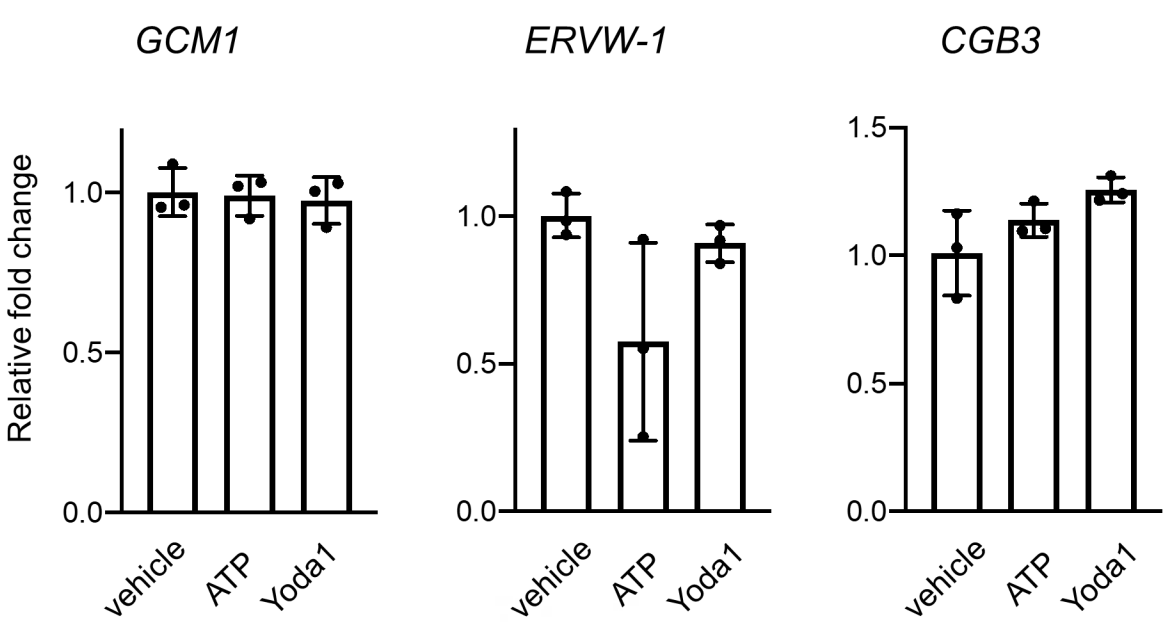


Supplementary Figure.S1

A



B



Supplementary Figure.S2

Supplementary Table 1A. The descending order list of loading factor of PC1

gene_ID	gene_name	PC1
ENSG000001	MT1G	0.03977528
ENSG000002	MT1H	0.03451987
ENSG000001	INHA	0.03383218
ENSG000001	HMGCS2	0.03291
ENSG000001	SERPINB2	0.03249131
ENSG000001	CYP1B1	0.03170544
ENSG000001	PHYHIP	0.03155698
ENSG000001	TREM1	0.03148865
ENSG000001	GSTA3	0.0313065
ENSG000002	C1QTNF1-AS	0.03110589
ENSG000001	STRA6	0.03061458
ENSG000002	DIO2	0.03052936
ENSG000001	CYP1A1	0.03047756
ENSG000002	PLAC4	0.0302025
ENSG000001	STX11	0.03011291
ENSG000002	AC104534.1	0.02951055
ENSG000001	SLC6A3	0.02942654
ENSG000000	RHOBTB1	0.02936887
ENSG000001	PAEP	0.02910575

ENSG000002	7SK	0.02886952
ENSG000002	LINC01118	0.02885856
ENSG000001	ANGPTL4	0.02861153
ENSG000001	XKRX	0.02858738
ENSG000002	AL365226.2	0.02858029
ENSG000002	Z98257.1	0.02828716
ENSG000001	CGB5	0.02822372
ENSG000001	CGB2	0.02796854
ENSG000001	RBM24	0.02776159
ENSG000001	CGB3	0.02773887
ENSG000001	APOBEC2	0.02771581
ENSG000002	AC015849.5	0.02761861
ENSG000002	CGB8	0.02728752
ENSG000001	MUCL1	0.02714619
ENSG000000	PTGER3	0.02691121
ENSG000002	LINC01447	0.02682893
ENSG000001	KIAA1671	0.02674531
ENSG000001	MAN1C1	0.02670842
ENSG000002	AC007319.1	0.02666002
ENSG000002	AC092275.1	0.02665525
ENSG000002	UGT1A7	0.02660597
ENSG000001	PREX1	0.02616519

ENSG000001	GLRX	0.02610689
ENSG000001	LAIR2	0.02608783
ENSG000001	MT1X	0.02603882
ENSG000002	COLQ	0.02585674
ENSG000001	ENDOU	0.02584332
ENSG000001	TEX14	0.02574376
ENSG000000	SORBS1	0.02565061
ENSG000001	LGALS13	0.0256415
ENSG000001	RLBP1	0.02555765
ENSG000001	CCDC33	0.02553986
ENSG000001	CGA	0.02547303
ENSG000001	MYH6	0.02546035
ENSG000002	FER1L5	0.02543199
ENSG000000	DHRS9	0.0253907
ENSG000001	SPDEF	0.02527516
ENSG000001	VIPR1	0.02527258
ENSG000002	CGB1	0.02516251
ENSG000002	AC008687.4	0.02506169
ENSG000000	HS3ST1	0.02500343
ENSG000001	TLE6	0.02498392
ENSG000001	FAM43A	0.02498376
ENSG000001	IGSF5	0.02496769

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ENSG000002	Z94160.1	0.02392274
ENSG000001	KYNU	0.02383208
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ENSG000001	ARNT2	0.02177074
ENSG000001	FOSB	0.02172732
ENSG000002	HIST1H2BG	0.02167535
ENSG000001	PTPN22	0.02158888
ENSG000001	BPGM	0.02158479
ENSG000002	AL033523.1	0.02148516
ENSG000001	FST	0.02147899
ENSG000000	CD200	0.02144174
ENSG000001	WNK2	0.02143949
ENSG000001	PHYHIPL	0.02135832

Supplementary Table 1B. The descending order list of loading factors of PC2

gene_ID	gene_name	PC2
ENSG000001	CYP1A1	0.04934418
ENSG000001	MARCH4	0.04341666
ENSG000002	MT1H	0.04192273
ENSG000001	MT1G	0.04035642
ENSG000002	IGHM	0.03836267
ENSG000001	FAM71F1	0.0377102
ENSG000001	GNG11	0.03758336
ENSG000001	CYP1B1	0.03590709
ENSG000002	UGT1A7	0.03521637
ENSG000001	MYEOV	0.03495845
ENSG000002	LINC01819	0.03429891
ENSG000001	FGF1	0.0336005
ENSG000001	MT1E	0.03231915
ENSG000001	AADACL3	0.03200266
ENSG000000	GAS7	0.03150788
ENSG000002	AL512274.1	0.02965158
ENSG000001	ACOXL	0.02891077
ENSG000001	THSD4	0.02885592
ENSG000001	OSGIN1	0.02855255

ENSG000001	AREG	0.02842775
ENSG000001	JUN	0.02803449
ENSG000000	MYLK	0.02748822
ENSG000002	LIPN	0.02733152
ENSG000001	TFPI2	0.02697472
ENSG000001	MT2A	0.0269157
ENSG000002	TNFSF12	0.026883
ENSG000001	EMP3	0.02629841
ENSG000001	SOX15	0.02619621
ENSG000002	AC092275.1	0.02605938
ENSG000001	CCND2	0.02580586
ENSG000001	NIPAL1	0.02576614
ENSG000001	SERPINB2	0.02571931
ENSG000001	NANOS1	0.02571916
ENSG000001	TAGLN	0.02569399
ENSG000001	SYT12	0.02560249
ENSG000001	EGR1	0.02516395
ENSG000001	NLRP10	0.02490687
ENSG000001	TLR6	0.02475161
ENSG000002	SRCIN1	0.0247415
ENSG000001	SYBU	0.02458816
ENSG000002	AC117394.1	0.02431214

ENSG000001	MT1X	0.02406496
ENSG000001	KCNJ5	0.02391826
ENSG000000	STYK1	0.02375306
ENSG000001	AKR1B10	0.02343215
ENSG000001	KRT15	0.02333275
ENSG000001	GPC3	0.02322435
ENSG000001	KLHL4	0.02301405
ENSG000001	TMEM255B	0.02282344
ENSG000001	KISS1	0.02281998
ENSG000001	NFE2	0.02276337
ENSG000001	SGPP2	0.02272231
ENSG000001	STK32C	0.02261787
ENSG000001	CPLX2	0.02261017
ENSG000001	ARHGAP26	0.0225228
ENSG000001	PODXL	0.02234679
ENSG000001	SLCO2A1	0.02234337
ENSG000001	ALDH1A1	0.02223509
ENSG000001	NPPB	0.02203266
ENSG000002	AC018647.2	0.02189804
ENSG000002	ITGB3	0.0218067
ENSG000001	FGFBP3	0.0217864
ENSG000001	FLT1	0.02178633

ENSG000000	CASS4	0.0217393
ENSG000001	OLFML3	0.02169211
ENSG000001	ADORA1	0.02164582
ENSG000002	AL357833.1	0.02159891
ENSG000002	AL024507.2	0.02154427
ENSG000001	TSPAN10	0.02134559
ENSG000001	CCN1	0.0212317
ENSG000001	ORAI3	0.02115252
ENSG000001	HSPB7	0.0211236
ENSG000001	ANXA4	0.02100488
ENSG000001	IL21R	0.02099928
ENSG000001	PM20D2	0.02092944
ENSG000001	CLCNKA	0.02081349
ENSG000001	FEM1A	0.0207976
ENSG000001	ADGRF4	0.02074942
ENSG000001	CBR1	0.02060762
ENSG000001	FGFRL1	0.02052991
ENSG000001	SPRR2D	0.02049199
ENSG000001	NGF	0.02038164
ENSG000001	PTCRA	0.02035544
ENSG000001	TSACC	0.02027382
ENSG000002	AC093673.1	0.02025171

ENSG000002	PRRT4	0.02021401
ENSG000001	TMEM150A	0.02016768
ENSG000001	SYTL2	0.02014994
ENSG000002	PROB1	0.02014873
ENSG000002	AC022137.3	0.0200826
ENSG000001	DUSP6	0.01994369
ENSG000001	IGFL3	0.01992949
ENSG000001	NT5DC4	0.01984612
ENSG000000	DGKD	0.01983803
ENSG000001	ETS1	0.01981901
ENSG000001	CACNA2D3	0.01974163
ENSG000001	CYP27B1	0.01968966
ENSG000002	AC008894.3	0.01968542
ENSG000001	KLRG1	0.01967107
ENSG000001	FAM189A2	0.01960353
ENSG000002	AL512306.2	0.01959503
ENSG000001	DUSP4	0.01957782
ENSG000001	HEG1	0.01955944
ENSG000001	MT1F	0.01952481
ENSG000001	PKN1	0.0193983
ENSG000001	EPGN	0.01935892
ENSG000002	KARSP3	0.01935631

ENSG000001	CHST11	0.01930608
ENSG000000	TIE1	0.01929692
ENSG000002	ERCC6	0.01928816
ENSG000001	LINC00311	0.01926693
ENSG000001	GPAT3	0.01922081
ENSG000001	SELPLG	0.0192167
ENSG000001	PAPPA	0.01907614
ENSG000001	LAMB3	0.01902354
ENSG000002	ILF3-DT	0.0189712
ENSG000002	BMS1P10	0.01896523
ENSG000002	AC025181.2	0.01895256
ENSG000001	PHLDA1	0.01888965
ENSG000001	OGFRP1	0.01884742
ENSG000002	THAP7-AS1	0.01881184
ENSG000002	ST20-AS1	0.01873866
ENSG000001	PXYLP1	0.0186802
ENSG000001	ACTG2	0.01867074
ENSG000002	AC012676.1	0.01857395
ENSG000002	AP001816.1	0.0185123
ENSG000001	ACSL1	0.01847986
ENSG000001	INA	0.01845399
ENSG000002	AL513304.1	0.01844969

ENSG000001	B9D2	0.01844833
ENSG000001	TAC3	0.01826268
ENSG000001	TMEM134	0.01825778
ENSG000002	IGKC	0.01824813
ENSG000001	SPAM1	0.01822302
ENSG000002	SMIM2-AS1	0.01814838
ENSG000002	SNAI3-AS1	0.01812767
ENSG000002	BX470102.2	0.01808941
ENSG000001	SERPINB7	0.01806586
ENSG000000	IL4R	0.01803215
ENSG000000	SNAI2	0.01799671
ENSG000002	LCAL1	0.01797038
ENSG000002	AL355512.1	0.01794616
ENSG000002	LINC01629	0.01787607
ENSG000002	CAPN8	0.01787582
ENSG000001	ZBED2	0.01785296
ENSG000001	CSTA	0.01780497
ENSG000001	ANXA3	0.01777798
ENSG000001	CASP4	0.01777026
ENSG000002	AC015912.3	0.01772798
ENSG000002	AC084880.1	0.0177107

Supplementary Table 2. The list of differentially expressed genes between static and flow conditions (n = 17,931)

Gene ENSEMBL_ID	Gene_name	baseMean	log2FoldChange	FDR
ENSG00000244122	UGT1A7	88.93291819	7.46872897	4.72E-18
ENSG00000205358	MT1H	302.7661771	7.434311647	7.90E-34
ENSG00000125144	MT1G	739.1271	7.429849928	4.34E-07
ENSG00000250362	AC008592.1	7.53814588	6.788945688	0.000126458
ENSG00000272735	AC007881.3	6.664869905	6.602029525	0.000239756
ENSG00000287502	AC092418.2	6.178475312	6.484970971	0.00113359
ENSG00000286133	AC093817.2	12.02360619	6.477954194	5.25E-05
ENSG00000252711	RN7SKP116	5.977251505	6.436491982	0.001163907
ENSG00000249173	LINC01093	5.906673373	6.424315896	0.000567762
ENSG00000140465	CYP1A1	24406.71923	6.422206354	6.64E-22
ENSG00000268355	AC243960.3	5.396247563	6.291009598	0.001726934
ENSG00000207041	RNU6-3P	5.218373104	6.240231131	0.001957626
ENSG00000205704	LINC00634	4.867528049	6.162861323	0.00260511
ENSG00000158050	DUSP2	4.735518637	6.122943422	0.009189892
ENSG00000223901	AP001469.1	4.752448606	6.119080235	0.001782379
ENSG00000256546	AC156455.1	4.241340928	5.958214687	0.003550096
ENSG00000249669	CARMN	4.117114632	5.918657635	0.006222072
ENSG00000249572	AC034231.1	7.994564789	5.874204986	0.000997206
ENSG00000229835	KHSRPP1	3.824842599	5.794104898	0.023337023
ENSG00000285737	LINC02680	3.73023325	5.776645286	0.008124234

ENSG00000274879	AC009804.1	7.274932405	5.756492577	0.002540651
ENSG00000071677	PRLH	3.660336987	5.749353531	0.022063641
ENSG00000179219	LINC00311	27.03895965	5.742470197	7.61E-08
ENSG00000272109	AC008906.2	3.697406613	5.739805332	0.016586524
ENSG00000245468	LINC02447	3.537474428	5.690814335	0.014560347
ENSG00000219951	AL391416.1	3.47536128	5.667627164	0.012325597
ENSG00000249995	ECM1P2	3.411884395	5.650060743	0.069162693
ENSG00000160408	ST6GALNAC6	3.309085605	5.595301347	0.076364799
ENSG00000237136	C4orf51	3.322199905	5.589084667	0.077731053
ENSG00000222043	AC079305.1	6.348627998	5.541998967	0.003750379
ENSG00000274536	AL034397.3	6.314871043	5.536664122	0.004084314
ENSG00000226051	ZNF503-AS1	11.18119337	5.480285948	0.000355747
ENSG00000254067	AC123767.1	11.18399673	5.467106228	0.000205131
ENSG00000253848	AC010834.2	2.996749802	5.437856271	0.054243316
ENSG00000163735	CXCL5	10.8818264	5.435902906	0.110143087
ENSG00000239620	PRR20G	2.934636655	5.409236651	0.056901799
ENSG00000285646	AL021155.5	5.693836234	5.388857293	0.003597278
ENSG00000278214	LINC02139	5.633672022	5.367774675	0.003805647
ENSG00000204020	LIPN	62.80990734	5.349546953	6.67E-15
ENSG00000163736	PPBP	2.717164747	5.307810284	0.067410408
ENSG00000178199	ZC3H12D	2.585155336	5.2416657	0.074785286
ENSG00000258791	LINC00520	2.555538389	5.209457499	0.133551379
ENSG00000138061	CYP1B1	1715.789301	5.174363582	1.81E-07
ENSG00000275088	AC026469.1	9.072885759	5.157850497	0.001112361

ENSG00000286517	AP000696.2	4.839163622	5.154911196	0.010967616
ENSG00000145920	CPLX2	44.79349735	5.139408029	3.88E-07
ENSG00000287527	AC005753.3	8.790160591	5.124225489	0.001432673
ENSG00000221818	EBF2	8.790848773	5.108958412	0.001800721
ENSG00000259251	AC104590.1	2.336702745	5.107116659	0.092500727
ENSG00000275479	AC087741.2	4.732549163	5.10185754	0.011660858
ENSG00000261787	TCF24	8.648328772	5.100377555	0.003366128
ENSG00000284948	AC107959.4	8.824667864	5.10014696	0.00097168
ENSG00000278876	AC145207.9	13.08934359	5.096610184	5.19E-05
ENSG00000279770	LINC00552	2.274589597	5.066650734	0.158505829
ENSG00000187193	MT1X	157.6238487	5.062364598	1.03E-23
ENSG00000150051	MKX	2.20605707	5.010379794	0.16981526
ENSG00000255051	BCAS2P1	2.20605707	5.010379794	0.16981526
ENSG00000272892	AL133551.1	7.718312904	4.900933183	0.003425158
ENSG00000262962	KARSP3	22.61733281	4.885450364	8.87E-07
ENSG00000223432	AC009988.1	4.077992096	4.874004576	0.046968715
ENSG00000146839	ZAN	7.354580706	4.860358522	0.004030494
ENSG00000156096	UGT2B4	7.301814574	4.808119095	0.003889983
ENSG00000260303	AC108206.1	1.895491331	4.80425465	0.213002644
ENSG00000108602	ALDH3A1	21.32994086	4.798871463	0.000119768
ENSG00000143028	SYPL2	7.042244904	4.791698997	0.018540341
ENSG00000106304	SPAM1	17.75130639	4.79079803	2.84E-06
ENSG00000245293	AC096564.1	10.68091992	4.773952872	0.000457816
ENSG00000169715	MT1E	1348.544968	4.765209542	6.00E-33

ENSG00000253190	AC084082.1	3.753746924	4.750823251	0.037109575
ENSG00000241671	AC117394.1	48.02445508	4.711369047	6.43E-09
ENSG00000127920	GNG11	279.6916887	4.668038285	1.56E-35
ENSG00000233052	AL513304.1	12.95516454	4.633178448	0.000170403
ENSG00000279412	AC020763.3	3.348048774	4.605585399	0.067537614
ENSG00000166569	CPLX4	6.296529187	4.574937216	0.010224257
ENSG00000214248	AC010336.1	6.128014057	4.57201249	0.016497121
ENSG00000196735	HLA-DQA1	3.209557846	4.534055746	0.137580496
ENSG00000224802	TUBB4BP2	11.93987664	4.529418782	0.001071354
ENSG00000267011	AC011498.1	3.187724015	4.508946537	0.142771197
ENSG00000170909	OSCAR	5.818130186	4.493773649	0.011993136
ENSG00000280147	AC084026.3	5.710151991	4.461475469	0.014938921
ENSG00000255647	AC093510.1	5.596842611	4.442024448	0.013105754
ENSG00000198074	AKR1B10	45.22012951	4.437608008	0.042189149
ENSG00000237281	CATIP-AS2	8.507806225	4.43551387	0.00260944
ENSG00000198879	SFMBT2	5.5329594	4.409074078	0.027205218
ENSG00000277893	SRD5A2	10.89763959	4.383914208	0.000306585
ENSG00000267213	AC007773.1	10.73192151	4.374084093	0.000334786
ENSG00000206899	RNU6-36P	5.253374345	4.336543936	0.020574223
ENSG00000287326	AL589787.1	2.804561632	4.328810899	0.129110847
ENSG00000272459	AC139795.3	7.715631796	4.3178875	0.005924
ENSG00000142319	SLC6A3	387.9393796	4.301490524	4.42E-39
ENSG00000125148	MT2A	4610.545876	4.298150356	6.52E-41
ENSG00000234695	AC002076.1	7.593541461	4.289338302	0.005399618

ENSG00000135519	KCNH3	5.196634452	4.28913264	0.023143218
ENSG00000153495	TEX29	2.647329826	4.260660949	0.128598273
ENSG00000259907	AC004817.2	4.84702886	4.238203581	0.060065676
ENSG00000286042	LCAL1	19.4273197	4.216724876	7.02E-07
ENSG00000106633	GCK	4.63818003	4.149573955	0.072501698
ENSG00000147257	GPC3	234.0725459	4.141917745	1.04E-15
ENSG00000230852	LINC02857	9.116057305	4.108028779	0.00246486
ENSG00000129009	ISLR	8.699089583	4.064339335	0.00417436
ENSG00000197632	SERPINB2	403.6475084	4.05764963	4.81E-34
ENSG00000163739	CXCL1	12.72102917	4.001285871	0.000761626
ENSG00000073756	PTGS2	4.244315361	3.980159399	0.049308759
ENSG00000165092	ALDH1A1	71.39544775	3.979590385	1.18E-06
ENSG00000267099	NTF6G	4.115515639	3.945464863	0.06008583
ENSG00000217889	KRT18P48	3.984070135	3.917267219	0.107442608
ENSG00000287787	AC092275.1	529.8298822	3.910978297	6.71E-06
ENSG00000279943	AC110771.1	3.840379736	3.889677276	0.10907161
ENSG00000286813	AC015871.7	7.663499067	3.877278948	0.045258875
ENSG00000141668	CBLN2	3.852060724	3.867047563	0.073133437
ENSG00000105825	TFPI2	4607.023123	3.858483617	3.46E-35
ENSG00000173227	SYT12	377.8744641	3.832213125	4.04E-20
ENSG00000251339	AC017091.1	11.19449609	3.826876975	0.004590515
ENSG00000179331	RAB39A	11.28737113	3.822436792	0.001245928
ENSG00000230013	CT70	3.793957094	3.815544989	0.123041038
ENSG00000280381	AC026362.2	3.835600147	3.799863262	0.199231127

ENSG00000215914	MMP23A	3.618003966	3.767878295	0.099163149
ENSG00000236383	CCDC200	3.618003966	3.767878295	0.099163149
ENSG00000196593	ANKRD20A19P	7.20926187	3.764348379	0.028382061
ENSG00000139187	KLRG1	98.48051227	3.759764433	7.08E-16
ENSG00000286419	AC097637.3	3.471598721	3.724647663	0.102060008
ENSG00000288010	AL035587.3	8.698944763	3.684881882	0.00604773
ENSG00000170667	RASA4B	10.23726753	3.680469594	0.001348068
ENSG00000240219	AL512306.2	73.89779276	3.67829412	1.28E-10
ENSG00000260911	AC135050.3	5.14676663	3.674552876	0.06780168
ENSG00000259775	AL138976.2	3.397398259	3.670934084	0.126692951
ENSG00000249715	FER1L5	124.9942456	3.646641812	9.28E-17
ENSG00000175894	TSPEAR	6.640608157	3.643742201	0.012112264
ENSG00000208037	MIR320A	10.08339607	3.638895473	0.00310306
ENSG00000272255	AC113361.1	6.583868264	3.612261692	0.012196663
ENSG00000176855	KRT18P28	23.03143592	3.609274789	0.000122206
ENSG00000243389	AC012442.2	8.065353248	3.598200006	0.008514462
ENSG00000163082	SGPP2	61.110529	3.593862935	6.08E-10
ENSG00000198417	MT1F	375.4979357	3.584043759	4.14E-22
ENSG00000286608	AC010201.3	3.153931734	3.578472554	0.197385811
ENSG00000140107	SLC25A47	22.17577624	3.568321535	5.45E-05
ENSG00000240003	RPL7P24	6.356781041	3.563242975	0.060624157
ENSG00000236867	Z98885.1	3.179326687	3.561597655	0.190244194
ENSG00000224371	AL391361.2	21.77463766	3.54932872	4.02E-05
ENSG00000267019	NTF6A	6.147518643	3.540015604	0.027528283

ENSG00000157368	IL34	34.7398653	3.538275428	8.79E-06
ENSG00000279198	AC008894.3	24.87522438	3.53503317	4.09E-06
ENSG00000213061	PFN1P11	4.718008428	3.523225023	0.053929552
ENSG00000250041	AC069360.1	4.716141696	3.510691362	0.102655111
ENSG00000285554	AC242988.2	4.681758696	3.507100849	0.081865466
ENSG00000262406	MMP12	15.3181235	3.502700889	0.001138931
ENSG00000005381	MPO	9.110819363	3.498374921	0.023454677
ENSG00000150594	ADRA2A	2.957956908	3.490083794	0.203772773
ENSG00000277675	AC211486.5	6.15044628	3.487893922	0.041049985
ENSG00000249199	AC026785.3	8.914756019	3.486727258	0.018706327
ENSG00000185296	AC026785.1	6.166130472	3.476012763	0.051609965
ENSG00000265451	AC012447.1	7.665992589	3.461842521	0.029188196
ENSG00000233785	AC131011.1	9.029656904	3.461015623	0.003839182
ENSG00000253632	AC084026.2	5.797624684	3.445274295	0.044471985
ENSG00000131095	GFAP	5.794414994	3.439915947	0.057593492
ENSG00000227518	AL928970.1	8.703909969	3.43083598	0.008887526
ENSG00000009765	IYD	2.891958516	3.429640458	0.286930191
ENSG00000266714	MYO15B	20.02500712	3.396867666	0.000321631
ENSG00000213726	RPS2P52	78.07111075	3.383860916	8.67E-15
ENSG00000105374	NKG7	2.905114887	3.37723937	0.294663822
ENSG00000170279	C7orf33	8.550191	3.377160899	0.010130919
ENSG00000273355	AP000894.4	11.14303068	3.37500362	0.002559359
ENSG00000239697	TNFSF12	101.8173756	3.374542594	1.39E-20
ENSG00000274210	U1	10.9437495	3.351752342	0.004325113

ENSG00000251410	AC007106.1	27.13099271	3.319987704	0.001139199
ENSG00000230943	LINC02541	8.40232699	3.318598918	0.033588743
ENSG00000236330	RPL5P9	5.475590748	3.318330796	0.033134602
ENSG00000163705	FANCD2OS	9.459102495	3.30460989	0.009254053
ENSG00000273802	HIST1H2BG	518.4076021	3.301139875	1.41E-27
ENSG00000278743	AC087239.1	9.279664135	3.297302243	0.018566502
ENSG00000253417	LINC02159	7.888049441	3.288987269	0.01603218
ENSG00000282097	AL160408.6	35.74443592	3.271432301	1.95E-07
ENSG00000102312	PORCN	1269.124359	3.263489269	0.000686223
ENSG00000230628	AL160408.3	13.02901379	3.26068728	0.01477021
ENSG00000175556	LONRF3	5.24466779	3.255174459	0.043061627
ENSG00000144771	LRTM1	9.065449077	3.254927595	0.060062827
ENSG00000237436	CAMTA1-DT	7.697824753	3.240990226	0.014446894
ENSG00000223865	HLA-DPB1	3.994140296	3.239925524	0.125436054
ENSG00000242186	AC231760.1	6.419450375	3.230723072	0.033333246
ENSG00000184678	HIST2H2BE	4124.297191	3.229829033	2.65E-51
ENSG00000263293	AC068234.2	10.19723395	3.22721646	0.006159362
ENSG00000258982	AL133523.1	8.78738769	3.213967242	0.013069308
ENSG00000268756	AC104534.1	443.4823389	3.212631269	4.29E-16
ENSG00000091879	ANGPT2	59.94058408	3.204389741	0.000217555
ENSG00000272476	AL024507.2	39.22852721	3.200047236	2.59E-09
ENSG00000253898	LINC01419	7.523166298	3.197164434	0.041515852
ENSG00000236060	HSPB1P1	7.611467913	3.195473168	0.0152939
ENSG00000206561	COLQ	152.0835655	3.193438912	1.64E-14

ENSG00000182752	PAPPA	146.325785	3.191481813	1.02E-17
ENSG00000164794	KCNV1	7.700306443	3.187407065	0.04409663
ENSG00000227799	AC012358.2	23.36068191	3.181645253	0.0003557
ENSG00000286408	AC113410.4	39.62291486	3.173697149	5.45E-09
ENSG00000232973	CYP1B1-AS1	12.27919373	3.172960468	0.003239081
ENSG00000232325	AC093627.1	7.303648785	3.166260889	0.083171087
ENSG00000114812	VIPR1	1608.009287	3.159430442	1.15E-05
ENSG00000251445	AC021151.1	2.393201067	3.154269885	0.299096396
ENSG00000172551	MUCL1	119.554662	3.148257289	2.11E-12
ENSG00000282375	AC100797.5	4.887443489	3.146540479	0.13312568
ENSG00000248494	LNX1-AS2	7.412896201	3.145949317	0.021292634
ENSG00000018280	SLC11A1	47.17231151	3.140815725	1.61E-08
ENSG00000123999	INHA	35032.92396	3.140634395	2.07E-28
ENSG00000225647	AC005487.1	14.69122125	3.139379621	0.000715838
ENSG00000019102	VSIG2	25.59284561	3.115096633	0.00097237
ENSG00000255200	PGAM1P8	19.08127519	3.112276554	0.000280215
ENSG00000147465	STAR	4.650507478	3.094815073	0.127515467
ENSG00000279393	AL139005.1	4.685537813	3.082115091	0.113975807
ENSG00000243819	RN7SL832P	9.219010599	3.078260837	0.030423105
ENSG00000278716	AC133540.1	10.27208096	3.065512238	0.033805502
ENSG00000260339	HEXA-AS1	5.767985037	3.059285688	0.106980103
ENSG00000279108	AC008537.3	4.543886706	3.057491092	0.124276205
ENSG00000230098	TCERG1L-AS1	22.87483822	3.04127404	2.33E-05
ENSG00000272829	AC002470.1	10.19538028	3.033507686	0.00739901

ENSG00000196114	AL031577.1	3.412392349	3.028115776	0.148986403
ENSG00000136535	TBR1	8.993376854	3.011950954	0.011872783
ENSG00000203812	HIST2H2AA3	51.61676402	3.011208202	4.34E-08
ENSG00000122756	CNTFR	8.89106028	3.006338556	0.012026699
ENSG00000287437	AL161662.1	3.272385192	2.994350254	0.263239559
ENSG00000235643	LINC01647	22.46999665	2.993401637	7.39E-05
ENSG00000091129	NRCAM	9.000189735	2.990146616	0.023540154
ENSG00000140839	CLEC18B	10.04196629	2.980767208	0.012591925
ENSG00000054219	LY75	3.344445021	2.980525447	0.206092085
ENSG00000261474	AC026471.4	13.23456945	2.978356162	0.004395755
ENSG00000241735	FABP5P3	2.137647228	2.975632528	0.408017409
ENSG00000272196	HIST2H2AA4	19.72680342	2.97543041	0.000348516
ENSG00000272086	AC025181.2	60.92640627	2.974896372	6.55E-10
ENSG00000245694	CRNDE	4.502161764	2.969255176	0.132088142
ENSG00000267346	EIF5AP3	2.140181363	2.964742942	0.40961953
ENSG00000259704	AC124248.1	13.01066554	2.963154263	0.001487968
ENSG00000214282	KRT8P14	4.370028078	2.959728832	0.101375273
ENSG00000265514	LINC01892	6.407286377	2.941938295	0.045337817
ENSG00000259353	AC090515.4	9.536250398	2.939174294	0.032846316
ENSG00000273456	AC064836.3	16.13013159	2.938935532	0.00069828
ENSG00000232519	AL353807.2	4.3772536	2.933763309	0.160278001
ENSG00000113600	C9	107.7844665	2.930229056	4.14E-08
ENSG00000262074	SNORD3B-2	6.62588255	2.928707688	0.168175339
ENSG00000236861	AC006378.1	11.68243106	2.927993084	0.008876146

ENSG00000137868	STRA6	4619.233747	2.925722418	5.33E-34
ENSG00000170827	CELP	5.311415707	2.922462207	0.068849205
ENSG00000249884	RNF103-CHMP3	39.46961405	2.921960614	5.74E-07
ENSG00000172543	CTSW	4.230235551	2.915554744	0.108044947
ENSG00000267980	AC007292.1	10.61754668	2.911711583	0.013241768
ENSG00000270820	AC016727.1	87.53772115	2.910993934	4.02E-12
ENSG00000261655	AC100803.3	4.165283283	2.910982153	0.232745931
ENSG00000244067	GSTA2	40.32400737	2.910334393	2.09E-06
ENSG00000253307	AC011676.1	3.080301924	2.906589044	0.240382544
ENSG00000103175	WFDC1	14.8400475	2.90347828	0.010704657
ENSG00000099260	PALMD	4.254948635	2.89909747	0.123144268
ENSG00000267197	AC011461.1	5.324481722	2.898071377	0.076540738
ENSG00000231327	LINC01816	6.259111069	2.89779426	0.055731214
ENSG00000279118	AC093535.2	627.9398972	2.887167138	1.64E-21
ENSG00000273010	AL360270.3	10.41050998	2.87801388	0.013705883
ENSG00000225460	AL590233.1	16.00369031	2.870880115	0.041050236
ENSG00000230731	AL589745.1	16.43872631	2.869970881	0.000776341
ENSG00000100060	MFNG	44.77880489	2.866448831	6.98E-05
ENSG00000233493	TMEM238	8.11797307	2.861337597	0.06008583
ENSG00000117122	MFAP2	135.8340559	2.859079535	1.10E-07
ENSG00000217646	HIST1H2BPS2	5.993233665	2.852986768	0.191111706
ENSG00000174992	ZG16	16.42541338	2.852829827	0.001363644
ENSG00000270006	AC010531.6	8.167894083	2.84990637	0.0379046
ENSG00000189350	TOGARAM2	42.50611367	2.845496423	9.30E-07

ENSG00000230596	GPAA1P2	4.036112991	2.842524411	0.192111382
ENSG00000158014	SLC30A2	1677.168854	2.840622556	0.001121146
ENSG00000122133	PAEP	469.2024658	2.83350073	4.63E-13
ENSG00000275489	C17orf98	5.990788047	2.829097348	0.165551055
ENSG00000157306	ZFHX2-AS1	8.087122974	2.827548486	0.035034303
ENSG00000231249	ITPR1-DT	22.85628779	2.826944027	0.000788867
ENSG00000135604	STX11	947.5835545	2.805665373	2.01E-28
ENSG00000250644	AC068580.4	5.075506069	2.804915085	0.134291416
ENSG00000148848	ADAM12	499.0999095	2.804510614	2.38E-11
ENSG00000250584	LINC01511	9.924033184	2.803956606	0.007337825
ENSG00000278995	Z69720.2	5.857833853	2.800783929	0.114827055
ENSG00000168490	PHYHIP	4540.175009	2.797993736	3.09E-21
ENSG00000184497	TMEM255B	34.91604434	2.797297769	4.93E-05
ENSG00000233154	LINC01762	17.9256619	2.796353457	0.004174649
ENSG00000260727	SLC7A5P1	3.924807146	2.794359941	0.211801929
ENSG00000248489	LINC02062	18.59246091	2.794038332	0.000616603
ENSG00000261046	C2orf69P1	3.927341281	2.793867555	0.268293089
ENSG00000226496	LINC00323	10.8765166	2.789115211	0.025142289
ENSG00000205177	C11orf91	5.998137843	2.782595535	0.149666276
ENSG00000277782	AC068870.2	10.70575154	2.777624306	0.016525738
ENSG00000260891	AC020978.3	3.865318489	2.7750142	0.229786563
ENSG00000260103	AC012435.2	266.8742348	2.774700412	5.17E-08
ENSG00000267304	AC004637.1	7.818855776	2.769414539	0.040568272
ENSG00000249637	AC008438.1	20.61432414	2.765038418	0.007487406

ENSG00000058404	CAMK2B	5.734971294	2.758338072	0.153062498
ENSG00000286060	AL365256.1	9.509599597	2.748453835	0.058232205
ENSG00000276384	AC016876.3	9.660214524	2.746936269	0.036789338
ENSG00000166359	WDR88	18.91138042	2.7411682	0.001015993
ENSG00000129514	FOXA1	5.914232934	2.739414131	0.150573912
ENSG00000188937	NYX	5.759920299	2.737738165	0.082369747
ENSG00000265096	C1QTNF1-AS1	571.9510788	2.732260124	4.77E-30
ENSG00000229539	AL353194.1	22.65741999	2.730645386	0.000231373
ENSG00000151632	AKR1C2	33.95758977	2.724646023	0.197491211
ENSG00000137561	TTPA	20.65417196	2.723429844	0.000228347
ENSG00000283849	AC092053.2	5.70362004	2.718930169	0.0690123
ENSG00000168890	TMEM150A	3337.79102	2.71815628	1.33E-35
ENSG00000234805	AC090505.1	177.7302603	2.717726416	4.22E-14
ENSG00000235414	RPSAP24	8.306880387	2.716922397	0.038930382
ENSG00000163467	TSACC	43.65842496	2.715277187	1.82E-06
ENSG00000223461	AC004471.1	10.38439316	2.714638262	0.029267419
ENSG00000165125	TRPV6	1765.116176	2.710629984	4.59E-18
ENSG00000065534	MYLK	1039.013401	2.709453813	3.45E-17
ENSG00000074660	SCARF1	12.18158103	2.707288488	0.022319773
ENSG00000231768	LINC01354	5.635694003	2.702564467	0.117048878
ENSG00000185811	IKZF1	5.620127771	2.695516241	0.162165728
ENSG00000004799	PDK4	36.58741558	2.688652191	1.12E-05
ENSG00000160716	CHRNB2	7.307485797	2.686440277	0.063100452
ENSG00000186510	CLCNKA	31.15083336	2.684913424	0.010148277

ENSG00000233912	AC026202.2	23.09882211	2.684616063	0.000483673
ENSG00000214894	LINC00243	69.73248817	2.682281793	1.51E-10
ENSG00000259182	AC019254.1	12.75775354	2.680268253	0.020368533
ENSG00000244515	KRT18P34	5.449718304	2.675469398	0.09874864
ENSG00000274213	AC015912.3	68.88176681	2.674263585	6.12E-07
ENSG00000231638	LUARIS	70.84852548	2.67361276	1.79E-07
ENSG00000260239	LINC02533	13.71895916	2.672990976	0.003985943
ENSG00000188199	NUTM2B	7.422853921	2.672224567	0.057972528
ENSG00000283052	LINC02456	2.710315979	2.667119674	0.302693527
ENSG00000101440	ASIP	8.27766448	2.665330232	0.058478598
ENSG00000189157	FAM47E	11.09096444	2.664944305	0.026406738
ENSG00000220378	KRT8P42	18.23393015	2.663809025	0.000525754
ENSG00000004939	SLC4A1	3.585643078	2.654610401	0.245754732
ENSG00000163497	FEV	5.421995694	2.65344286	0.113464328
ENSG00000156006	NAT2	18.01043012	2.653409003	0.002540651
ENSG00000275441	AC020765.2	6.269566265	2.651367839	0.050133092
ENSG00000135248	FAM71F1	12.71574207	2.650335415	0.02194601
ENSG00000235865	GSN-AS1	5.365103922	2.650046823	0.119127902
ENSG00000225920	RIMKLBP2	5.370380508	2.64569102	0.119788059
ENSG00000275393	AC018695.6	32.40754863	2.640025993	0.001618741
ENSG00000285875	AL035446.2	17.71583765	2.639671296	0.003581444
ENSG00000278389	AC099518.6	6.185537082	2.634301892	0.087252239
ENSG00000118432	CNR1	5.280908494	2.630941372	0.202213053
ENSG00000232692	AP001596.1	163.7445781	2.63073268	7.01E-14

ENSG00000196890	HIST3H2BB	192.2290081	2.628606052	6.81E-18
ENSG00000166863	TAC3	390.8055674	2.628075274	7.21E-22
ENSG00000236778	INTS6-AS1	19.57784752	2.626817141	0.000266962
ENSG00000267100	ILF3-DT	474.0585935	2.626147909	7.03E-31
ENSG00000268403	AC132192.2	32.85158574	2.6231714	2.14E-06
ENSG00000113555	PCDH12	43.23908847	2.622005861	3.18E-07
ENSG00000186481	ANKRD20A5P	8.031008332	2.617526351	0.032081781
ENSG00000261659	Z92544.2	7.123205098	2.617099	0.079260899
ENSG00000257815	AC025159.1	38.69981164	2.615776008	1.73E-06
ENSG00000174721	FGFBP3	66.78432496	2.61391117	2.27E-06
ENSG00000274997	HIST1H2AH	32.57307442	2.613626689	6.96E-05
ENSG00000125966	MMP24	10.65356238	2.607096329	0.014063784
ENSG00000137860	SLC28A2	110.752328	2.606341704	1.48E-09
ENSG00000124839	RAB17	10265.4541	2.600835515	5.57E-36
ENSG00000250509	AC034213.1	6.926912148	2.597476483	0.09894687
ENSG00000170498	KISS1	244.4469282	2.597299303	1.08E-18
ENSG00000111452	ADGRD1	9.582284677	2.594597053	0.039778877
ENSG00000139547	RDH16	76.42870205	2.594291516	1.37E-09
ENSG00000253768	AC008663.1	4.312906516	2.594275985	0.245774203
ENSG00000130711	PRDM12	5.185099816	2.593224617	0.260962557
ENSG00000140481	CCDC33	176.7100851	2.589559562	7.75E-15
ENSG00000213693	SEC14L1P1	3.392196074	2.588620451	0.277930058
ENSG00000225857	LINC02816	7.114451748	2.587866897	0.07722808
ENSG00000173641	HSPB7	184.6309012	2.583568674	5.15E-09

ENSG00000171611	PTCRA	13.72831647	2.582212902	0.019932328
ENSG00000233987	AC106706.1	102.4435275	2.577863005	2.17E-09
ENSG00000249947	XBP1P1	4.370895563	2.575453731	0.162602353
ENSG00000224165	DNAJC27-AS1	12.97750557	2.571075391	0.041801979
ENSG00000271869	AC026979.2	21.46827899	2.570758156	0.002128124
ENSG00000129214	SHBG	6.979108372	2.569839472	0.056328047
ENSG00000229425	AJ009632.2	24.14199821	2.566800053	0.003646052
ENSG00000253824	AP003472.1	8.513336789	2.565467618	0.067253209
ENSG00000255262	ELOBP2	51.27608758	2.56525267	3.35E-07
ENSG00000225606	AC005281.1	20.42391369	2.557320327	0.000579252
ENSG00000249406	AC015909.1	6.930771327	2.548892914	0.11823806
ENSG00000211890	IGHA2	2.584981422	2.548707427	0.408707304
ENSG00000248112	AC108174.1	25.37721883	2.5485081	0.00014381
ENSG00000237643	AL365226.2	497.7474629	2.547087336	8.64E-09
ENSG00000159450	TCHH	346.7447635	2.545797406	2.89E-13
ENSG00000274750	HIST1H3E	34.61712913	2.540536398	0.00011628
ENSG00000276840	PMS2P10	4.980660006	2.534511108	0.145437124
ENSG00000270977	AC015849.5	2155.259118	2.533602047	1.12E-28
ENSG00000260347	MOCS1P1	6.732989752	2.532584981	0.052125824
ENSG00000124731	TREM1	11695.1147	2.530694547	1.70E-24
ENSG00000225335	AC016027.1	12.40650259	2.529335231	0.021115736
ENSG00000122188	LAX1	8.329036637	2.52831522	0.059319261
ENSG00000270175	AC023509.3	19.23413561	2.525789515	0.001687528
ENSG00000287686	AC062029.1	34.69740989	2.522737688	0.000740304

ENSG00000267216	ZNF8-ERVK3-1	5.069085895	2.519902091	0.128128279
ENSG00000267729	AC010761.6	2.452075512	2.51785758	0.471328674
ENSG00000115841	RMDN2	56.59277108	2.514431858	4.70E-08
ENSG00000084628	NKAIN1	76.59400614	2.511507433	1.84E-07
ENSG00000276122	AC026336.3	67.31176498	2.511314498	1.61E-05
ENSG00000255153	TOLLIP-AS1	4.98078428	2.511289265	0.145789259
ENSG00000275294	LINC02340	6.587148415	2.510196984	0.154081726
ENSG00000277363	SRCIN1	253.6878967	2.50943863	1.76E-10
ENSG00000196741	LINC01560	8.462970143	2.506683906	0.067557888
ENSG00000175772	LINC01106	9.987639067	2.505887246	0.018148179
ENSG00000163485	ADORA1	48.26412539	2.498648254	0.001681397
ENSG00000285966	AC007686.4	4.848650594	2.495298746	0.163631193
ENSG00000215014	AL645728.1	15.0089449	2.495295735	0.017516242
ENSG00000285802	AL450043.1	8.165295097	2.494140997	0.099774878
ENSG00000089558	KCNH4	3.363503229	2.493628866	0.285470476
ENSG00000226919	AL365184.1	4.936200765	2.493526473	0.271640656
ENSG00000182261	NLRP10	68.80692396	2.492614477	2.57E-07
ENSG00000285216	AL355499.2	18.63404629	2.490895095	0.011561866
ENSG00000165449	SLC16A9	3.280450594	2.489485785	0.287963538
ENSG00000171931	FBXW10	3.280450594	2.489485785	0.287963538
ENSG00000167772	ANGPTL4	565.4374617	2.486699255	1.10E-08
ENSG00000223522	AC093690.1	5.669090068	2.482982459	0.140067249
ENSG00000131401	NAPSB	4.776220196	2.477978418	0.167150663
ENSG00000188649	CC2D2B	9.109336974	2.475177641	0.042423515

ENSG00000075340	ADD2	5.602528381	2.474722911	0.114756798
ENSG00000105523	FAM83E	8.158692684	2.473921798	0.06227651
ENSG00000177112	MRVI1-AS1	76.83835748	2.471960996	2.99E-08
ENSG00000187837	HIST1H1C	8790.71634	2.469419307	0.000337643
ENSG00000122711	SPINK4	81.55934982	2.468948682	2.66E-05
ENSG00000183066	WBP2NL	4.908554045	2.467738671	0.156682717
ENSG00000286261	AC022137.3	184.6033641	2.46770571	1.68E-12
ENSG00000228224	NACA4P	4.876202799	2.466519119	0.165661291
ENSG00000113389	NPR3	3.206544812	2.465147624	0.375922348
ENSG00000267871	ZNF460-AS1	8.092687978	2.461846444	0.063369006
ENSG00000280278	AC009108.5	11.09681565	2.461599738	0.043489555
ENSG00000100365	NCF4	1314.258612	2.457411954	1.67E-25
ENSG00000197208	SLC22A4	81.40358337	2.452411187	4.74E-09
ENSG00000287778	AC006230.1	7.236005087	2.449786159	0.074490643
ENSG00000124140	SLC12A5	4.075936902	2.438163975	0.258828566
ENSG00000103460	TOX3	5.550856758	2.43785078	0.09391689
ENSG00000285906	AC083855.2	13.66440018	2.435840374	0.013497377
ENSG00000260231	KDM7A-DT	156.466723	2.435750515	4.04E-15
ENSG00000149256	TENM4	37.35921602	2.433775394	4.04E-05
ENSG00000287979	AC253572.2	4.733103912	2.433156431	0.123829569
ENSG00000253141	AC008632.1	17.8606752	2.430896057	0.029922709
ENSG00000230773	AC092650.1	12.71374143	2.428807275	0.010204337
ENSG00000145819	ARHGAP26	1682.21503	2.425466085	8.60E-32
ENSG00000237222	LINC01968	62.78947137	2.425396417	3.40E-06

ENSG00000170745	KCNS3	82.59657851	2.424400676	4.05E-08
ENSG00000163462	TRIM46	4.607410386	2.418661171	0.311156982
ENSG00000178404	CEP295NL	24.9806095	2.416548124	0.000604091
ENSG00000222005	LINC01118	207.6896545	2.413443286	1.18E-13
ENSG00000225972	MTND1P23	9.416834416	2.411433111	0.099561845
ENSG00000257545	AC079385.1	4.703376543	2.410838298	0.135943904
ENSG00000153093	ACOXL	463.8382022	2.40918056	1.48E-24
ENSG00000278022	AC118658.1	4.007307706	2.407988953	0.229943646
ENSG00000132437	DDC	13.35235275	2.407803615	0.016400849
ENSG00000197616	MYH6	179.6759215	2.405766708	9.39E-11
ENSG00000273619	AL121832.2	145.3179548	2.403823607	6.53E-16
ENSG00000271394	7SK	1653.032279	2.40290975	1.62E-11
ENSG00000263167	AC115099.1	11.75501873	2.400352859	0.031332152
ENSG00000281383	FP671120.7	16.99535182	2.396261724	0.026386589
ENSG00000285684	AL137781.1	22.1687458	2.395633341	0.013163787
ENSG00000115956	PLEK	9.190091383	2.39489066	0.077060155
ENSG00000187690	EZHIP	13.95405386	2.392876788	0.006848994
ENSG00000286532	PARTICL	15.47459175	2.391772587	0.003597278
ENSG00000172000	ZNF556	12.46229378	2.388961619	0.009998179
ENSG00000236423	LINC01134	20.41510102	2.388300325	0.006548514
ENSG00000280924	LINC00628	12.12772981	2.387467017	0.049067257
ENSG00000262497	FAM187B2P	3.169380669	2.387393558	0.464025353
ENSG00000259118	AL139022.1	3.118748345	2.387298561	0.353356676
ENSG00000234147	AL035446.1	40.32766038	2.385072625	0.00023237

ENSG00000225880	LINC00115	56.53372352	2.381646671	2.40E-07
ENSG00000197580	BCO2	4.744399865	2.379740066	0.278619467
ENSG00000280739	EIF1B-AS1	28.71836828	2.37954371	0.009746398
ENSG00000188056	TREML4	6.123463372	2.374989162	0.125112257
ENSG00000254231	AC103760.1	3.087691771	2.372233603	0.341112902
ENSG00000118785	SPP1	10.06760549	2.371121277	0.025766829
ENSG00000227076	AL158166.1	6.078197989	2.36924825	0.089282452
ENSG00000272106	AL691432.2	136.9231994	2.362558784	2.15E-13
ENSG00000277283	AC004812.2	57.37973354	2.360403903	2.70E-06
ENSG00000006659	LGALS14	55.06518217	2.358846917	4.71E-05
ENSG00000261572	AC097639.1	18.0777845	2.355201725	0.014939715
ENSG00000165702	GFI1B	5.344646885	2.353070053	0.129531982
ENSG00000182612	TSPAN10	56.99540698	2.351286815	2.64E-05
ENSG00000234945	GTF3C2-AS1	6.867753448	2.350315016	0.08233514
ENSG00000260274	AC068338.2	30.5579304	2.34958148	0.002107903
ENSG00000061455	PRDM6	6.137983479	2.349162829	0.225215935
ENSG00000236882	LINC01554	110.0384596	2.348954986	1.52E-07
ENSG00000100156	SLC16A8	6.141875037	2.348869462	0.173524793
ENSG00000172663	TMEM134	1953.539402	2.347897994	1.31E-17
ENSG00000279806	AC018629.1	14.97462538	2.342149476	0.050172991
ENSG00000230513	THAP7-AS1	33.80015819	2.338207124	2.92E-05
ENSG00000268006	PTOV1-AS1	17.21374304	2.337635696	0.008812659
ENSG00000222020	HDAC4-AS1	6.665056096	2.336901683	0.092033502
ENSG00000260924	LINC01311	81.5681097	2.335161193	5.73E-06

ENSG00000115263	GCG	11.13874914	2.335152547	0.042544814
ENSG00000276527	AL356515.1	32.08098706	2.333140135	0.000502304
ENSG00000270482	AC026367.1	12.20638251	2.33263788	0.062333146
ENSG00000060140	STYK1	405.5125068	2.331882692	1.07E-14
ENSG00000267685	NTF6B	15.99710095	2.330604934	0.021337778
ENSG00000271615	ACTG1P22	13.9320587	2.329331358	0.125269388
ENSG00000279467	AP000350.7	5.110120735	2.329326229	0.248138828
ENSG00000106278	PTPRZ1	20.76752902	2.327974043	0.011127489
ENSG00000187753	C9orf153	4.462533284	2.327304992	0.362429431
ENSG00000253102	AC004707.1	14.89605859	2.326733128	0.040256403
ENSG00000166866	MYO1A	46.46337918	2.326532254	1.55E-05
ENSG00000231924	PSG1	2051.31053	2.323637272	1.96E-23
ENSG00000155530	LRGUK	44.7223622	2.322565343	5.99E-06
ENSG00000142661	MYOM3	5.25486695	2.318791244	0.274484657
ENSG00000164485	IL22RA2	49.06598784	2.317614165	4.61E-06
ENSG00000213144	AC084880.1	441.2568167	2.316916487	3.93E-09
ENSG00000262712	AC012676.1	34.39048983	2.316003604	6.81E-05
ENSG00000174156	GSTA3	2361.666089	2.314589704	4.69E-30
ENSG00000259207	ITGB3	483.5938973	2.309394843	1.29E-09
ENSG00000286859	AL158214.2	4.482832973	2.30863932	0.27369739
ENSG00000144130	NT5DC4	41.58271449	2.308225321	0.001081478
ENSG00000273243	Z82243.1	13.16273508	2.308188253	0.019999656
ENSG00000224892	RPS4XP16	11.85660374	2.308172614	0.032810812
ENSG00000172508	CARNS1	8.074288146	2.307661283	0.059517377

ENSG00000155428	TRIM74	19.92653309	2.305796804	0.002671622
ENSG00000143839	REN	19.13702531	2.303842677	0.001712421
ENSG00000277449	CEBPB-AS1	8.765927898	2.301798809	0.054074793
ENSG00000172006	ZNF554	496.5551188	2.298639488	5.97E-11
ENSG00000160678	S100A1	12.48425801	2.298298181	0.027008194
ENSG00000165197	VEGFD	6.581590207	2.296306361	0.112584753
ENSG00000124225	PMEPA1	8.929505345	2.296131969	0.061807857
ENSG00000286156	AC026273.1	24.91529016	2.293538786	0.04891793
ENSG00000161955	TNFSF13	47.97609785	2.292188803	0.000224936
ENSG00000231663	COA6-AS1	27.0906276	2.287933104	0.000488628
ENSG00000287387	AC010883.3	10.90831288	2.287118743	0.036373071
ENSG00000232354	VIPR1-AS1	25.35821096	2.284086598	0.000362452
ENSG00000251000	AC008592.3	17.33349933	2.282667744	0.003357919
ENSG00000198883	PNMA5	5.733923581	2.282577113	0.166550774
ENSG00000221500	SNORD100	14.7667731	2.281421565	0.022068236
ENSG00000189052	CGB5	1357666.792	2.278988	1.28E-14
ENSG00000165556	CDX2	11.454746	2.27891442	0.098658499
ENSG00000261455	LINC01003	395.5874749	2.274533197	1.59E-09
ENSG00000272449	AL139246.5	76.30589938	2.272735099	4.40E-05
ENSG00000237686	AL109615.3	276.2836066	2.271525684	7.53E-10
ENSG00000172403	SYNPO2	5.131886431	2.270524701	0.152696453
ENSG00000255970	LINC02421	21.58053602	2.268613745	0.019536384
ENSG00000108556	CHRNE	79.49657611	2.268566263	1.95E-05
ENSG00000261441	AC124068.2	11.63544044	2.26827799	0.023988604

ENSG00000118495	PLAGL1	200.6768641	2.266481485	2.01E-10
ENSG00000236307	EEF1E1P1	5.851491027	2.264853351	0.177732568
ENSG00000111012	CYP27B1	29.76429713	2.263573077	0.000718043
ENSG00000188624	IGFL3	166.2943018	2.259058261	2.83E-08
ENSG00000197540	GZMM	7.266062414	2.256095894	0.136636237
ENSG00000124701	APOBEC2	4108.030201	2.253603999	5.95E-18
ENSG00000158406	HIST1H4H	275.6941704	2.251422604	2.07E-13
ENSG00000269091	AC010624.3	5.73942111	2.249887407	0.138409169
ENSG00000253320	AZIN1-AS1	58.72681407	2.248105951	1.26E-05
ENSG00000165140	FBP1	122.7023299	2.248024466	0.0001293
ENSG00000151612	ZNF827	75.74521781	2.245885999	6.77E-05
ENSG00000255038	AP006287.2	8.454053733	2.245568141	0.077903215
ENSG00000134640	MTNR1B	61.10213024	2.245422456	0.000236472
ENSG00000173221	GLRX	2548.879931	2.241468112	1.16E-11
ENSG00000163220	S100A9	6221.001902	2.23793484	0.014132255
ENSG00000275202	AL161421.1	91.31369667	2.2375757	1.27E-07
ENSG00000225950	NTF4	251.0462418	2.234589463	1.17E-15
ENSG00000248810	LINC02432	15.5003345	2.233432209	0.016517166
ENSG00000104827	CGB3	734590.9215	2.227459764	4.63E-13
ENSG00000277075	HIST1H2AE	138.9674565	2.22659587	3.40E-11
ENSG00000187720	THSD4	319.231635	2.224486809	2.92E-08
ENSG00000206646	Y_RNA	4.145521786	2.223080871	0.25742371
ENSG00000140961	OSGIN1	182.1763506	2.222548549	1.09E-06
ENSG00000233084	RPL23AP25	23.70298255	2.220786441	0.001554886

ENSG00000207357	RNU6-2	17.53948095	2.220305205	0.015738038
ENSG00000185070	FLRT2	5.620443795	2.219769334	0.163491667
ENSG00000227258	SMIM2-AS1	40.80678423	2.219512239	0.000587626
ENSG00000106211	HSPB1	28698.53114	2.218374878	1.13E-23
ENSG00000228672	PROB1	54.4885162	2.215962138	3.79E-05
ENSG00000007237	GAS7	106.7893869	2.213793888	1.14E-05
ENSG00000270210	AC104695.3	4.255083948	2.213737491	0.339686846
ENSG00000231971	CT69	4.252549813	2.213309814	0.286089839
ENSG00000213514	AL731556.1	16.18779831	2.212270992	0.013163787
ENSG00000231050	AL109917.1	12.50481583	2.211077952	0.017657357
ENSG00000259642	ST20-AS1	37.15320154	2.208461135	0.000483673
ENSG00000260589	STAM-AS1	8.404182545	2.208217544	0.094832331
ENSG00000239557	AC092045.1	13.88039504	2.207794905	0.012306053
ENSG00000176887	SOX11	2.774591897	2.207587872	0.462562934
ENSG00000217275	AL031777.1	7.560082425	2.204776369	0.131625182
ENSG00000180089	TMEM86B	4.847575457	2.203025027	0.235341762
ENSG00000085563	ABCB1	34.63299635	2.201121626	0.003488206
ENSG00000184106	TREML3P	485.0965357	2.198872414	8.18E-08
ENSG00000272812	AC004908.2	9.584604666	2.195631014	0.085329927
ENSG00000165152	TMEM246	6.934390942	2.195366395	0.161599595
ENSG00000018236	CNTN1	5.549072148	2.194796168	0.155327181
ENSG00000213030	CGB8	769585.7346	2.19305395	2.30E-13
ENSG00000164451	CALHM4	6.79842845	2.189729719	0.152671592
ENSG00000272097	AL024498.1	8.908427038	2.187715888	0.058092395

ENSG00000185198	PRSS57	27.90505989	2.18409695	0.002783826
ENSG00000183208	GDPGP1	29.81679907	2.18281136	0.000952978
ENSG00000021826	CPS1	383.2897873	2.181669863	2.13E-06
ENSG00000135318	NT5E	1706.883933	2.181038216	1.54E-17
ENSG00000020633	RUNX3	7.051421474	2.179649714	0.168274307
ENSG00000152495	CAMK4	13.70434534	2.179617613	0.133437775
ENSG00000259676	AC103982.1	11.27636664	2.179155957	0.108151921
ENSG00000256288	LINC02617	22.1635343	2.177447747	0.007645133
ENSG00000141965	FEM1A	82.21370209	2.175962079	1.43E-09
ENSG00000272277	AL031963.3	27.88486939	2.174789615	0.001952044
ENSG00000261889	AC108134.2	10.1474234	2.173604023	0.062333146
ENSG00000125788	DEFB126	4.090578336	2.171451126	0.32348452
ENSG00000231704	AC004895.1	12.93703025	2.17136819	0.01954651
ENSG00000261324	AC010168.2	34.31264267	2.162590541	0.005822454
ENSG00000275454	AC105020.6	4.81687154	2.162345575	0.239002915
ENSG00000264269	AC016866.1	14.777108	2.15965511	0.017594781
ENSG00000255224	AC109322.1	59.67784494	2.159630239	8.85E-06
ENSG00000105808	RASA4	27.36069986	2.157573661	0.027303418
ENSG00000197653	DNAH10	5.359893585	2.157057782	0.287945862
ENSG00000228261	ITPRIP-AS1	13.42139107	2.155415173	0.05154789
ENSG00000236528	AL033528.2	4.105621506	2.154963786	0.265731823
ENSG00000221990	EXOC3-AS1	73.07689458	2.154596954	2.59E-06
ENSG00000260868	LINC01960	1108.150525	2.153901647	3.32E-17
ENSG00000260927	AC009107.2	8.275031706	2.151767441	0.145775191

ENSG00000285693	AP002381.2	49.42860551	2.150759712	3.63E-05
ENSG00000276791	AC092117.1	47.94588099	2.14958468	0.003923355
ENSG00000287963	AC010476.2	224.2485967	2.147193314	6.25E-13
ENSG00000203804	ADAMTSL4-AS1	9.412694974	2.144486147	0.05005608
ENSG00000176125	UFSP1	93.38471974	2.144244102	2.22E-08
ENSG00000260552	AC023043.1	17.24394168	2.143252033	0.025373874
ENSG00000267631	CGB1	200.6628747	2.143075327	1.07E-12
ENSG00000279069	AC015813.5	27.11991336	2.142340248	0.007006726
ENSG00000233930	KRTAP5-AS1	9.569874334	2.140393038	0.079209773
ENSG00000283095	FP565171.1	8.560441782	2.1403074	0.21903574
ENSG00000171051	FPR1	3.95319567	2.139760712	0.405618627
ENSG00000130377	ACSBG2	75.71287261	2.139238096	0.000728459
ENSG00000234949	AC104667.2	59.85296239	2.136504785	2.76E-06
ENSG00000277749	AC023300.2	21.48010397	2.136051261	0.007699911
ENSG00000268584	AC073389.1	9.239111574	2.131688571	0.069968389
ENSG00000152518	ZFP36L2	1544.872772	2.131409077	2.87E-24
ENSG00000241962	AC079447.1	5.98460108	2.131355997	0.124393371
ENSG00000228352	AL354989.1	21.44842644	2.126713906	0.003840689
ENSG00000272146	ARF4-AS1	6.529655489	2.126304021	0.20235952
ENSG00000131969	ABHD12B	57.20595297	2.126143368	1.88E-05
ENSG00000117983	MUC5B	41.79787475	2.125904123	0.003148791
ENSG00000131409	LRRC4B	3.96956173	2.125787795	0.434435937
ENSG00000225882	LINC01456	9.933728472	2.125168546	0.062573765
ENSG00000238107	LINC02806	15.3061098	2.124510351	0.020523174

ENSG00000266896	AL354892.3	7.878980641	2.122954382	0.138345068
ENSG00000251630	AC119751.6	34.32260069	2.120160769	0.001614952
ENSG00000196139	AKR1C3	40.01475767	2.11934895	0.002350096
ENSG00000248583	AC119751.3	32.45449534	2.119324865	0.000299085
ENSG00000213215	OR2F1	20.47079386	2.116091067	0.002379941
ENSG00000236078	LINC01447	185.507801	2.115628654	8.13E-06
ENSG00000274642	AC244669.2	38.68317574	2.115090038	0.001148476
ENSG00000287234	AL592211.2	6.535028744	2.113216469	0.206646523
ENSG00000248884	AC010280.2	3.987291527	2.109680391	0.292080161
ENSG00000259943	AL050341.2	69.765379	2.109407998	3.87E-06
ENSG00000072422	RHOBTB1	8554.768724	2.107626951	3.93E-25
ENSG00000285796	AL162458.1	36.83153651	2.105785346	0.000408853
ENSG00000179761	PIPOX	12.03320365	2.105033764	0.063813619
ENSG00000270021	AC026691.1	11.01502873	2.104380723	0.08998042
ENSG00000072858	SIDT1	6.57005908	2.104093459	0.187322343
ENSG00000133460	SLC2A11	484.5780294	2.103361213	5.38E-11
ENSG00000234378	AC098828.2	31.46831028	2.102982222	0.001659457
ENSG00000100053	CRYBB3	17.07808418	2.102950111	0.01955307
ENSG00000228172	AL020996.1	4.664777069	2.100773279	0.238367375
ENSG00000228251	AC012442.1	5.912100393	2.099378263	0.189040972
ENSG00000273391	AC083880.1	19.6310064	2.096788502	0.004248674
ENSG00000250790	AC127070.2	7.736981864	2.095767376	0.245774203
ENSG00000253968	AC016573.1	6.688489105	2.092767651	0.197385811
ENSG00000166823	MESP1	3.2696158	2.090509282	0.424202955

ENSG00000288007	AC092803.4	7.687824923	2.089341635	0.195068796
ENSG00000117791	MARC2	100.3346447	2.087615859	2.56E-05
ENSG00000204584	FLJ45513	35.84452944	2.076588539	0.002817404
ENSG00000105329	TGFB1	8776.592266	2.073786334	1.13E-18
ENSG00000276476	AL136962.1	209.5942723	2.073307803	3.50E-12
ENSG00000224063	AC007319.1	1464.206522	2.072335448	8.71E-08
ENSG00000271751	AP003392.4	6.352086015	2.070107052	0.149192153
ENSG00000162641	AKNAD1	12.81986937	2.06927509	0.028621782
ENSG00000174038	C9orf131	19.15077704	2.069190323	0.010781663
ENSG00000267348	GEMIN7-AS1	7.115110041	2.068483199	0.213002644
ENSG00000196975	ANXA4	3328.656316	2.0681487	1.67E-13
ENSG00000276846	AC016590.3	7.108022546	2.06716991	0.09002656
ENSG00000259158	ADAM20P1	6.430571537	2.064361092	0.123937135
ENSG00000204055	AL158151.1	18.00814378	2.063435646	0.021887885
ENSG00000243926	TIPARP-AS1	21.87641663	2.061749065	0.003532001
ENSG00000218809	AL391903.1	3.916224865	2.061747174	0.385235682
ENSG00000273382	AL356488.3	31.85353492	2.058501459	0.004892503
ENSG00000149564	ESAM	3908.286795	2.057560284	9.19E-28
ENSG00000143110	C1orf162	10.20873187	2.057022172	0.053202332
ENSG00000279452	AC006277.1	16.5313149	2.055514554	0.02419079
ENSG00000223485	LINC01615	31.59782949	2.053004185	0.001430213
ENSG00000173917	HOXB2	310.0429671	2.050386953	3.78E-06
ENSG00000214544	GTF2IRD2P1	7.708099161	2.049899452	0.143938037
ENSG00000287320	AC110790.1	59.16761002	2.048453919	7.05E-05

ENSG00000198336	MYL4	48.15598529	2.047392802	7.77E-05
ENSG00000275325	PDCD6IPP1	6.377480968	2.047343167	0.154213322
ENSG00000197272	IL27	418.8091401	2.047289681	2.22E-12
ENSG00000178538	CA8	13.99603905	2.046165277	0.019851344
ENSG00000104140	RHOV	1637.916108	2.043458897	7.19E-12
ENSG00000262049	AC139530.1	74.94203345	2.040525537	0.000101762
ENSG00000114251	WNT5A	154.2469112	2.039419717	8.06E-09
ENSG00000270882	HIST2H4A	17.71877085	2.038403789	0.02119164
ENSG00000129596	CDO1	901.6757085	2.035172606	1.34E-11
ENSG00000234261	AL138720.1	13.24525299	2.033223261	0.021919093
ENSG00000102755	FLT1	1502.240008	2.031299206	0.004490494
ENSG00000151474	FRMD4A	1583.718101	2.029456429	9.52E-17
ENSG00000115648	MLPH	527.5597323	2.028727231	5.72E-06
ENSG00000142405	NLRP12	3.808804264	2.028669511	0.469200052
ENSG00000241764	AC002467.1	25.12919141	2.026877843	0.00446052
ENSG00000272696	AL359091.4	11.44305285	2.026812024	0.044588804
ENSG00000100867	DHRS2	3957.583911	2.025465978	1.46E-10
ENSG00000133958	UNC79	9.425746442	2.024430828	0.085074876
ENSG00000249492	AC114956.3	11.7627568	2.022516281	0.07146836
ENSG00000260190	AL807752.5	8.898764795	2.02162514	0.123015138
ENSG00000268108	AC008687.2	181.5231098	2.019849703	6.66E-14
ENSG00000189275	LINC01164	10.04494826	2.019741066	0.065498354
ENSG00000260630	SNAI3-AS1	41.20786479	2.019493229	0.004929283
ENSG00000110427	KIAA1549L	59.51052042	2.01863828	5.79E-06

ENSG00000273702	AC091271.1	40.64504208	2.015597177	0.023188845
ENSG00000287670	AC108479.3	16.69498669	2.015140751	0.025614097
ENSG00000260273	AL359711.2	8.067315897	2.01370526	0.116532097
ENSG00000113494	PRLR	2734.858374	2.013693123	2.02E-07
ENSG00000245573	BDNF-AS	14.18153303	2.012281789	0.094380033
ENSG00000205869	KRTAP5-1	21.99514392	2.010771539	0.017339128
ENSG00000200913	SNORD46	9.456570473	2.010684288	0.072806214
ENSG00000177025	C19orf18	6.890813554	2.009555768	0.188168175
ENSG00000187554	TLR5	73.92672486	2.008833058	0.000871177
ENSG00000077238	IL4R	6985.128713	2.008797084	1.19E-19
ENSG00000169704	GP9	6.170021327	2.007711087	0.290877221
ENSG00000221826	PSG3	63071.0887	2.007141145	1.69E-06
ENSG00000271122	AC018647.2	158.5536053	2.007112946	3.79E-09
ENSG00000255198	SNHG9	110.8691384	2.006339895	5.58E-05
ENSG00000263004	AC007114.1	4.879947302	2.005582788	0.375979292
ENSG00000229337	AC079305.3	9.441609507	2.003263123	0.100350683
ENSG00000263843	AC022211.2	29.26333965	2.003020469	0.00227685
ENSG00000183971	NPW	12.93427877	2.001584398	0.059040022
ENSG00000260259	LINC02166	10.10441207	2.001541252	0.153191501
ENSG00000206417	H1FX-AS1	31.42500692	2.001142154	0.003096499
ENSG00000202415	RN7SKP269	13.61699661	2.000776059	0.035906429
ENSG00000216895	AC009403.1	19.24197666	1.99643547	0.013505449
ENSG00000101049	SGK2	47.42038364	1.99599888	7.29E-05
ENSG00000226757	AC079341.1	7.550301609	1.99550845	0.209771897

ENSG00000250325	IGBP1P4	13.59416217	1.994607353	0.028697074
ENSG00000250326	AC104596.1	6.157294215	1.993128372	0.298021236
ENSG00000280109	PLAC4	95332.54986	1.992452614	7.06E-19
ENSG00000217825	AC099552.1	16.71915187	1.991778961	0.014388358
ENSG00000110693	SOX6	5.503777753	1.991649869	0.187237955
ENSG00000168658	VWA3B	3.633181573	1.991048167	0.421847091
ENSG00000250397	AP006623.1	23.55468938	1.990697918	0.007632754
ENSG00000258774	NANOGP7	4.917747693	1.989371041	0.291804667
ENSG00000115935	WIPF1	151.0482315	1.989203262	3.81E-08
ENSG00000087589	CASS4	11.92992236	1.989021931	0.070943534
ENSG00000196639	HRH1	345.0209368	1.988250462	8.16E-15
ENSG00000239920	AC104389.5	3.745333693	1.987082441	0.376690761
ENSG00000140522	RLBP1	366.3355519	1.986697696	6.67E-15
ENSG00000165996	HACD1	71.86857404	1.986668506	0.000279734
ENSG00000113492	AGXT2	9.964564336	1.986569399	0.076620015
ENSG00000211592	IGKC	3.63182415	1.985967261	0.429435359
ENSG00000253404	AC034243.1	7.274703242	1.985275799	0.177732568
ENSG00000155850	SLC26A2	1952.064956	1.983027505	5.91E-09
ENSG00000226206	BX470209.1	23.51421827	1.982214349	0.007629472
ENSG00000260464	AL049796.1	13.58948109	1.981932311	0.040906167
ENSG00000273137	AL022328.2	10.46429754	1.981491524	0.081795847
ENSG00000224292	AF196972.1	10.95699907	1.980274285	0.068824886
ENSG00000214401	KANSL1-AS1	70.62028447	1.979724065	1.53E-05
ENSG00000228793	AL033523.1	481.7362849	1.979669919	2.48E-16

ENSG00000120875	DUSP4	4971.762108	1.979465961	3.26E-11
ENSG00000226608	FTLP3	51.03857524	1.97770457	0.001031322
ENSG00000267185	PTP4A2P1	72.91881881	1.976886568	0.000140313
ENSG00000170091	NSG2	39.9976457	1.9767591	0.009663487
ENSG00000271032	AC020907.4	11.58766502	1.976403462	0.044471985
ENSG00000137070	IL11RA	580.2813223	1.975960705	1.88E-21
ENSG00000272853	AC069544.1	13.2779678	1.975378777	0.095219754
ENSG00000150636	CCDC102B	5.570934943	1.973660759	0.277097614
ENSG00000087086	FTL	144355.996	1.973598318	1.20E-15
ENSG00000235641	LINC00484	3.684996922	1.972768265	0.415982476
ENSG00000198763	MT-ND2	134644.6117	1.970155676	4.94E-09
ENSG00000242861	AL591895.1	60.03145108	1.969549877	0.000141177
ENSG00000123810	B9D2	41.40908001	1.969426829	0.000166562
ENSG00000276698	AL136295.6	9.623407109	1.969189632	0.101692193
ENSG00000228626	AC245100.3	89.31074744	1.966579028	0.001004352
ENSG00000198133	TMEM229B	99.36010615	1.964693802	2.51E-07
ENSG00000286887	AL355881.1	21.7057329	1.96157164	0.006886379
ENSG00000226800	CACTIN-AS1	7.372261518	1.96011258	0.141774649
ENSG00000272990	AC084036.1	9.929940642	1.959963225	0.112408413
ENSG00000154957	ZNF18	888.5209096	1.959820761	1.35E-11
ENSG00000213930	GALT	2470.409216	1.958056875	1.50E-16
ENSG00000272055	RNU6-6P	6.134525906	1.958053869	0.210507125
ENSG00000286153	AP000331.1	142.1187928	1.956445649	3.99E-08
ENSG00000241593	AC099542.1	250.7127496	1.954287944	3.46E-10

ENSG00000126467	TSKS	1662.583884	1.953736026	1.75E-11
ENSG00000258940	AL132639.2	5.391351019	1.953151267	0.267631622
ENSG00000224650	IGHV3-74	60.23668383	1.952982603	0.001448103
ENSG00000278952	AP003068.4	5.622937318	1.951687805	0.334403111
ENSG00000196954	CASP4	10599.33219	1.951348259	1.20E-09
ENSG00000139318	DUSP6	410.4670977	1.946825975	7.98E-07
ENSG00000248161	AC098487.1	24.08311618	1.942282527	0.005629443
ENSG00000141622	RNF165	3.506915986	1.940591453	0.410171737
ENSG00000213068	AL451050.1	5.444676284	1.940570374	0.264318695
ENSG00000270362	HMGN3-AS1	106.9601712	1.939744982	0.000115604
ENSG00000171310	CHST11	1909.181982	1.939517124	1.88E-16
ENSG00000164181	ELOVL7	165.0582373	1.937855544	8.59E-11
ENSG00000243236	GSTA9P	421.4938238	1.936539164	0.087960711
ENSG00000236617	AC127070.1	23.73249735	1.935903805	0.01232266
ENSG00000273139	AC007663.3	7.036505764	1.935480148	0.234692711
ENSG00000187566	NHLRC1	47.23328461	1.93457513	0.03665946
ENSG00000254473	AL354920.1	71.15943527	1.930460366	0.000763342
ENSG00000168298	HIST1H1E	23.79160496	1.928888306	0.023164825
ENSG00000184232	OAF	11862.51796	1.928332818	1.76E-10
ENSG00000215483	LINC00598	8.242166897	1.927245599	0.201504606
ENSG00000272720	AL022322.1	8.504913265	1.926931608	0.193069328
ENSG00000105388	CEACAM5	19.18475376	1.92394234	0.009878393
ENSG00000133800	LYVE1	9.618374911	1.923382502	0.073892495
ENSG00000135346	CGA	6645259.235	1.923048673	2.89E-13

ENSG00000227471	AKR1B15	41.74622175	1.921961303	0.001928189
ENSG00000284602	AL031432.4	4.649595078	1.920657948	0.374574863
ENSG00000259146	AC005476.2	33.01419099	1.919610481	0.022449737
ENSG00000280383	Z95331.1	7.045589866	1.917538997	0.242370284
ENSG00000132915	PDE6A	9.292088908	1.915855163	0.156142576
ENSG00000254290	AC124067.4	25.04359931	1.913047914	0.009373547
ENSG00000272686	AC006333.2	133.0972916	1.912904317	3.07E-09
ENSG00000189134	NKAPL	9.526486722	1.91179909	0.124552007
ENSG00000253686	LINC01484	7.778772554	1.910930326	0.136625594
ENSG00000237238	BMS1P10	62.1595771	1.910910692	0.000310417
ENSG00000232273	FTH1P1	36.31518701	1.910675054	0.018109143
ENSG00000286388	AC026748.3	48.1989963	1.90882162	0.000279301
ENSG00000004468	CD38	5.327914366	1.908122331	0.268892287
ENSG00000137501	SYTL2	67.37219324	1.907796483	0.000183211
ENSG00000276259	AC009118.3	5.891679112	1.907542572	0.267102645
ENSG00000206625	RNU6-1	3.447336973	1.907167918	0.436708652
ENSG00000168389	MFSD2A	607.8506701	1.905348213	0.037604904
ENSG00000227431	CSE1L-AS1	2.411184137	1.903484098	0.605108845
ENSG00000260018	AC040169.1	9.387064764	1.902839954	0.09225975
ENSG00000172379	ARNT2	252.3208563	1.899849997	1.98E-14
ENSG00000188163	FAM166A	4.648243968	1.899236385	0.463758135
ENSG00000170846	AC093323.1	631.7322809	1.899179895	2.14E-16
ENSG00000164136	IL15	8.181472696	1.899130143	0.116105315
ENSG00000187066	TMEM262	11.25023741	1.898389278	0.061142251

ENSG00000269313	MAGIX	65.65939381	1.895311292	2.08E-05
ENSG00000141933	TPGS1	69.50068174	1.89506732	8.02E-06
ENSG00000176563	CNTD1	18.65688652	1.893585174	0.012806204
ENSG00000255363	LINC02757	59.74389162	1.892965445	0.0005428
ENSG00000103257	SLC7A5	105313.2449	1.891642995	2.28E-23
ENSG00000116771	AGMAT	8.259386771	1.890985285	0.126323249
ENSG00000078967	UBE2D4	337.0759404	1.88843856	2.95E-12
ENSG00000173914	RBM4B	833.03154	1.887618602	6.15E-10
ENSG00000115155	OTOF	107.4621531	1.887363086	6.09E-06
ENSG00000254874	AP003171.1	18.07516636	1.887280108	0.04024482
ENSG00000143365	RORC	38.29710402	1.887162986	0.030458098
ENSG00000126460	PRRG2	496.2876193	1.885576658	1.88E-10
ENSG00000186019	AC021092.1	6.874803516	1.88526372	0.198891398
ENSG00000137727	ARHGAP20	4.638802436	1.88502102	0.268146053
ENSG00000269565	GPR32P1	102.3730752	1.884341572	3.06E-07
ENSG00000009694	TENM1	20.49768221	1.883722452	0.008874901
ENSG00000287982	AC026765.4	13.88869916	1.882503346	0.03892617
ENSG00000287886	AC005914.1	12.72229606	1.882385965	0.078893663
ENSG00000225905	AL391244.1	7.061639956	1.882213531	0.199609895
ENSG00000137804	NUSAP1	19.06186758	1.880317162	0.05530725
ENSG00000249306	LINC01411	12.1286636	1.87989406	0.056901799
ENSG00000279342	AP000866.6	8.263555096	1.878787438	0.159246607
ENSG00000251095	AC093866.1	532.7107496	1.877082235	2.59E-12
ENSG00000235530	AC087294.1	9.175866671	1.874513692	0.103384973

ENSG00000224281	SLC25A5-AS1	26.54540654	1.873807425	0.022001104
ENSG00000250073	AP000866.2	56.79298597	1.873667939	9.56E-05
ENSG00000182489	XKRX	488.4219227	1.873384324	1.25E-06
ENSG00000278341	AC138028.6	7.737723167	1.872887896	0.269696797
ENSG00000012171	SEMA3B	1401.58633	1.871951051	0.049087772
ENSG00000130234	ACE2	14.07970393	1.871429846	0.057104483
ENSG00000236829	Z97634.1	8.539817706	1.871168991	0.137933473
ENSG00000141642	ELAC1	124.4578472	1.870959132	1.82E-06
ENSG00000088682	COQ9	2095.079697	1.870673362	7.40E-14
ENSG00000269028	MTRNR2L12	11.5512947	1.86917729	0.102060008
ENSG00000170629	DPY19L2P2	101.3598509	1.868979802	0.001615546
ENSG00000135439	AGAP2	72.48672431	1.868459801	7.87E-05
ENSG00000242242	NECTIN3-AS1	38.88077478	1.867250243	0.001312294
ENSG00000002745	WNT16	4.563837902	1.867001555	0.311949644
ENSG00000272189	AL024508.2	15.00067434	1.866979343	0.049638767
ENSG00000234965	SHISA8	6.303106539	1.865572323	0.185336904
ENSG00000270964	AC016355.1	10.34903659	1.860217794	0.173952172
ENSG00000183117	CSMD1	10.28079642	1.857405605	0.087400099
ENSG00000240291	AL450384.2	5.862248576	1.855972187	0.2773768
ENSG00000277352	AP001065.4	3.395846061	1.855909587	0.520940117
ENSG00000198848	CES1	9.200354751	1.855861993	0.157331706
ENSG00000288022	AC117488.1	16.75024525	1.854585077	0.133649851
ENSG00000250569	NTAN1P2	9.587322317	1.854403317	0.165641398
ENSG00000237172	B3GNT9	63.79146579	1.850119413	2.96E-05

ENSG00000200534	SNORA33	23.05807477	1.849204786	0.020079045
ENSG00000231245	C1DP1	6.223603111	1.849127954	0.2576435
ENSG00000233680	HNRNPA1P27	28.77759187	1.847084028	0.016858806
ENSG00000285650	AL157827.2	7.412381947	1.846913769	0.164467608
ENSG00000269386	RAB11B-AS1	57.20854017	1.845021981	0.00122067
ENSG00000225532	AL731684.1	34.73728076	1.84264942	0.002599869
ENSG00000205913	SRRM2-AS1	29.10389733	1.842267005	0.004738858
ENSG00000134321	RSAD2	723.3713645	1.841029254	1.77E-07
ENSG00000119547	ONECUT2	3.477547586	1.839576978	0.460229642
ENSG00000261341	AC010325.1	102.928365	1.838385276	5.31E-07
ENSG00000279765	AC013394.1	15.40465755	1.838201759	0.045796231
ENSG00000187134	AKR1C1	18.34253436	1.835515351	0.034158819
ENSG00000260955	AC100821.2	16.89946029	1.834644186	0.035364269
ENSG00000099866	MADCAM1	25.97935541	1.833750976	0.011317639
ENSG00000225511	LINC00475	212.7680386	1.833729022	1.05E-08
ENSG00000042286	AIFM2	201.3909019	1.833081657	6.09E-10
ENSG00000147206	NXF3	11.95298662	1.832024228	0.09953361
ENSG00000214207	KRT18P10	10.17048026	1.831140915	0.238558878
ENSG00000286811	AL353138.1	53.04277087	1.831127221	0.000636425
ENSG00000100302	RASD2	16.63685227	1.831075197	0.197385811
ENSG00000176472	ZNF575	18.24528605	1.830579699	0.029664023
ENSG00000224397	SMIM25	213.7565571	1.830578445	7.39E-07
ENSG00000135407	AVIL	41.0852266	1.828744847	0.004907623
ENSG00000198888	MT-ND1	129627.1289	1.82546513	1.27E-06

ENSG00000159263	SIM2	55.07219895	1.823872175	0.020667021
ENSG00000279140	AL590326.1	13.07412994	1.822012258	0.075983747
ENSG00000223776	LGALS8-AS1	9.039313591	1.82138602	0.116338851
ENSG00000257683	LINC02463	6.706103514	1.820742757	0.166948067
ENSG00000211689	TRGC1	6.80493701	1.819758965	0.185620857
ENSG00000287052	AC016240.1	8.927510749	1.819076471	0.131762576
ENSG00000200879	SNORD14E	12.5616311	1.818142372	0.158606137
ENSG00000166401	SERPINB8	383.2289926	1.818110432	4.31E-06
ENSG00000225630	MTND2P28	221.5212592	1.816746264	2.53E-05
ENSG00000168487	BMP1	6027.960935	1.816302708	6.70E-19
ENSG00000267898	AC026803.2	10.68281623	1.814854284	0.147458769
ENSG00000079156	OSBPL6	1015.760301	1.81423774	3.50E-08
ENSG00000175274	TP53I11	710.3091897	1.813385365	3.10E-05
ENSG00000145020	AMT	17.97082571	1.812910587	0.021464334
ENSG00000225422	RBMS1P1	15.61524682	1.812268844	0.027936696
ENSG00000258099	ATXN2-AS	5.49856251	1.809984951	0.283087654
ENSG00000175329	ISX	7.80237443	1.809841905	0.148294708
ENSG00000275198	AL512791.2	7.729819757	1.808965835	0.144250444
ENSG00000165272	AQP3	5429.676545	1.807461981	8.17E-06
ENSG00000183397	C19orf71	361.226301	1.807333857	4.82E-08
ENSG00000244513	AC109587.1	6.678533396	1.807060038	0.189019526
ENSG00000153885	KCTD15	6.863365077	1.805343829	0.364878292
ENSG00000233608	TWIST2	14.80151897	1.805260132	0.162447673
ENSG00000262213	AC144836.1	11.07273405	1.804920714	0.118491947

ENSG00000256092	SBNO1-AS1	59.91492569	1.803800319	2.71E-05
ENSG00000277182	AC006449.5	13.25684827	1.80360311	0.084475887
ENSG00000265666	RARA-AS1	31.36623612	1.803554781	0.003768348
ENSG00000121005	CRISPLD1	108.5733106	1.803429791	4.64E-06
ENSG00000286312	AL157769.1	3.870868333	1.802416159	0.378740524
ENSG00000169248	CXCL11	15.555055	1.801891979	0.056720258
ENSG00000286369	AP002813.1	7.083858028	1.798870805	0.2365479
ENSG00000144583	MARCH4	218.6683932	1.798858236	4.80E-05
ENSG00000151067	CACNA1C	10.53025115	1.797796599	0.140150373
ENSG00000233614	DDX11L10	6.731211325	1.797482422	0.182107393
ENSG00000261485	PAN3-AS1	7.904451534	1.796741567	0.263658122
ENSG00000117009	KMO	212.0700157	1.796534521	5.25E-10
ENSG00000272899	ATP6V1FNB	35.25851394	1.796369862	0.003658329
ENSG00000135373	EHF	21.15673668	1.795628528	0.026704866
ENSG00000255568	BRWD1-AS2	6.024851302	1.795309645	0.23701845
ENSG00000268287	AC008687.3	62.46090571	1.794584992	0.000608025
ENSG00000104826	LHB	500.1716663	1.793798059	3.07E-11
ENSG00000225891	AL513365.2	5.518297066	1.793705206	0.217147134
ENSG00000258472	AC005726.1	118.0892426	1.79331151	1.27E-05
ENSG00000075643	MOCOS	3972.871402	1.791612734	3.77E-15
ENSG00000276728	AC142472.1	21.9882143	1.790985154	0.036478389
ENSG00000250130	AC090519.1	14.5123089	1.790243661	0.066370855
ENSG00000242850	RPL23AP68	15.52691283	1.789407819	0.025678152
ENSG00000273270	AC090114.2	26.21350449	1.789244235	0.01590023

ENSG00000263934	SNORD3A	24.47915318	1.788291978	0.037914706
ENSG00000138378	STAT4	32.690601	1.785890192	0.007415519
ENSG00000163794	UCN	39.60278543	1.783234293	0.000669517
ENSG00000257252	AC124947.1	7.694458985	1.783008032	0.229786563
ENSG00000213420	GPC2	24.13052137	1.782461758	0.010520802
ENSG00000224157	HCG14	3.287074351	1.78091573	0.547781844
ENSG00000168454	TXNDC2	6.156090643	1.780723449	0.317234332
ENSG00000243648	AC109454.1	19.21366465	1.780587312	0.069341763
ENSG00000272667	AC012306.2	34.4820734	1.780456985	0.035661626
ENSG00000112195	TREML2	16600.32402	1.778946235	2.83E-08
ENSG00000275494	AC133552.5	87.27639821	1.778662924	1.64E-05
ENSG00000160188	RSPH1	4.429877717	1.77641647	0.439652892
ENSG00000235411	AC007041.1	61.40436032	1.776386069	0.002216254
ENSG00000109667	SLC2A9	26.96755913	1.774511495	0.018916627
ENSG00000225774	SIRPAP1	4.427343582	1.774426894	0.376028573
ENSG00000105672	ETV2	26.29120325	1.774321059	0.014645578
ENSG00000234678	ELF3-AS1	113.6121832	1.77281213	9.75E-06
ENSG00000247373	TMED2-DT	106.6333441	1.772380425	4.11E-05
ENSG00000270344	POC1B-AS1	8.402348376	1.768443283	0.307232386
ENSG00000198835	GJC2	37.40998266	1.767952929	0.020052646
ENSG00000185958	FAM186A	6.733512917	1.767073797	0.282068904
ENSG00000216915	GPR89P	8.603231045	1.766018753	0.153191501
ENSG00000272752	STAG3L5P-PVRIG2P-PILRB	8.284175051	1.76541992	0.16407575
ENSG00000170382	LRRN2	33.0269285	1.762361466	0.049508383

ENSG00000269706	AC008687.6	109.0435959	1.761705986	0.000337643
ENSG00000140284	SLC27A2	2987.458718	1.761467879	0.011862044
ENSG00000251411	AC093827.3	77.76270139	1.760977973	0.000133272
ENSG00000285533	RELA-DT	159.2352022	1.760057354	2.93E-07
ENSG00000227012	LINC02527	19.85048573	1.759735174	0.112972161
ENSG00000099326	MZF1	750.2882266	1.758951401	3.58E-17
ENSG00000271643	AC112220.2	82.9346061	1.758686721	9.75E-05
ENSG00000240766	PLCXD2-AS1	10.04559841	1.758543591	0.248777705
ENSG00000272994	AC012360.3	65.40806489	1.756948947	0.006898803
ENSG00000217776	AL138827.1	5.468630202	1.756748449	0.337673184
ENSG00000165917	RAPSN	11.48479029	1.756307138	0.102490277
ENSG00000221821	C6orf226	308.5281759	1.755267715	2.67E-08
ENSG00000215861	AC245297.1	4601.443319	1.754038428	3.42E-12
ENSG00000284753	EEF1AKMT4	379.7599789	1.753322887	2.59E-10
ENSG00000109684	CLNK	8.164169525	1.750850711	0.209863121
ENSG00000161179	YDJC	764.1799191	1.748868592	1.22E-15
ENSG00000158683	PKD1L1	7.623266821	1.748742307	0.296954297
ENSG00000183476	SH2D7	53.26900526	1.748705967	0.001342103
ENSG00000262587	AC133552.2	86.07339898	1.748429807	0.001982233
ENSG00000160172	FAM86C2P	91.8792148	1.746601185	5.80E-05
ENSG00000187049	TMEM216	201.0409957	1.745360087	9.55E-07
ENSG00000247137	AP000873.2	62.61890086	1.744667072	0.000164088
ENSG00000287710	AC067852.5	14.76591588	1.743665328	0.082492287
ENSG00000204301	NOTCH4	4.777160856	1.743619989	0.319581723

ENSG00000261663	AC009065.8	26.33995723	1.743002603	0.006749651
ENSG00000205426	KRT81	368.8968165	1.742729716	1.46E-06
ENSG00000274828	AC068473.5	87.43291664	1.741758842	4.34E-05
ENSG00000221916	C19orf73	17.6978768	1.741194277	0.036485185
ENSG00000174792	ODAPH	298.4604067	1.738752468	5.67E-06
ENSG00000273143	AL355512.1	89.94343973	1.738420079	3.43E-05
ENSG00000167700	MFSD3	410.7775199	1.738012821	4.64E-09
ENSG00000272267	AC021242.3	8.173842817	1.735066848	0.205956771
ENSG00000224721	AC007182.1	26.40934173	1.731155908	0.106757786
ENSG00000288096	AC109322.2	8.639628495	1.729516591	0.187020112
ENSG00000284691	AC073111.4	89.42327943	1.729490735	0.000126739
ENSG00000197558	SSPO	7.503489678	1.72812606	0.172026245
ENSG00000259891	AC107375.1	21.54217317	1.72790096	0.056067498
ENSG00000272173	U47924.2	7.430072426	1.727818733	0.295697407
ENSG00000273542	HIST1H4K	7.36664454	1.727541129	0.230438432
ENSG00000179988	PSTK	181.1092995	1.72695437	4.11E-06
ENSG00000255150	EID3	9.964289773	1.72642877	0.335924133
ENSG00000123405	NFE2	91.06339976	1.726423641	5.80E-05
ENSG00000104953	TLE6	837.099033	1.725938126	9.02E-05
ENSG00000260807	AC009041.2	9.748034396	1.723622642	0.373594814
ENSG00000142606	MMEL1	16.012823	1.723370474	0.047025077
ENSG00000179743	AL450998.2	39.50130033	1.722365411	0.003178425
ENSG00000227397	AC079355.2	10.57290571	1.721922796	0.153136844
ENSG00000204710	SPDYC	2506.773821	1.720574548	0.035990808

ENSG00000054690	PLEKHH1	4253.463497	1.719678305	7.22E-06
ENSG00000280287	AC131212.3	549.9793668	1.717700512	2.47E-09
ENSG00000196421	C20orf204	6.459429453	1.715298566	0.215870347
ENSG00000261526	AC012615.1	57.36301171	1.714910199	0.000849173
ENSG00000256073	URB1-AS1	40.37546538	1.714574946	0.001349027
ENSG00000240846	RPS15P9	7.599822958	1.714219168	0.286197271
ENSG00000160401	CFAP157	18.21009635	1.712944697	0.032848112
ENSG00000148290	SURF1	1854.181785	1.712880546	2.08E-14
ENSG00000164296	TIGD6	101.003908	1.712256162	0.000137154
ENSG00000112782	CLIC5	273.8498811	1.711767792	0.091075074
ENSG00000158516	CPA2	33.20813372	1.710938068	0.080855609
ENSG00000189433	GJB4	13.82133016	1.710896428	0.048812479
ENSG00000037897	METTL1	930.2302376	1.710865954	1.69E-10
ENSG00000099954	CECR2	862.9780772	1.71006735	0.000161636
ENSG00000224699	LAMTOR5-AS1	13.25030536	1.705911309	0.069351634
ENSG00000268670	AC016586.1	6.728743307	1.704526701	0.301980035
ENSG00000277718	LINC02255	24.304296	1.704425419	0.032316903
ENSG00000226754	AL606760.1	18.28416338	1.703342581	0.0423109
ENSG00000248925	AC021087.1	6.343585938	1.701968145	0.215870347
ENSG00000104818	CGB2	3882.048016	1.701263002	1.01E-10
ENSG00000260005	AC027601.2	36.08627202	1.700424148	0.00976516
ENSG00000122644	ARL4A	82.29301763	1.700166475	0.000110313
ENSG00000274471	AC242376.2	5.247796726	1.700062059	0.276915174
ENSG00000058866	DGKG	9.354760314	1.699759645	0.182079264

ENSG00000281912	LINC01144	6.373167128	1.699355155	0.278619467
ENSG00000153283	CD96	16.96331117	1.698214587	0.051827707
ENSG00000282221	AC119427.1	12.66880106	1.697944874	0.07142399
ENSG00000213213	CCDC183	14.80938065	1.697853366	0.053819071
ENSG00000135253	KCP	28.04747158	1.697594737	0.014518063
ENSG00000264007	AC104564.2	9.289008217	1.696769	0.246880993
ENSG00000129680	MAP7D3	1011.471583	1.696361476	8.85E-12
ENSG00000279259	AC087741.3	31.29366185	1.696280977	0.010668338
ENSG00000174276	ZNHIT2	369.6794844	1.695955901	2.84E-15
ENSG00000279928	FO538757.1	14.70991766	1.694067267	0.094794841
ENSG00000270419	CAHM	17.86636923	1.693962231	0.093021422
ENSG00000266916	ZNF793-AS1	33.35397304	1.692845717	0.008259118
ENSG00000228067	LINC01740	4.645303937	1.692350175	0.377971549
ENSG00000261170	AC009053.3	14.5033109	1.689833988	0.094786413
ENSG00000254251	AC103770.1	6.392372309	1.689619197	0.290432367
ENSG00000128408	RIBC2	5.316868321	1.687963311	0.381869617
ENSG00000214226	C17orf67	17.65996103	1.686658025	0.046171676
ENSG00000267395	DM1-AS	10.14426149	1.686462937	0.183714499
ENSG00000255221	CARD17	62.14435544	1.685633079	0.006290801
ENSG00000273654	AC020904.2	4.228277026	1.685627276	0.461378935
ENSG00000268655	AC008687.4	803.3703509	1.685604295	3.77E-08
ENSG00000215458	AATBC	8.810138611	1.683830902	0.170656087
ENSG00000119715	ESRRB	3.070772842	1.683672966	0.571921117
ENSG00000204380	PKP4-AS1	68.90780734	1.681644123	0.000774128

ENSG00000261654	AL360270.2	26.5167909	1.68124803	0.007628049
ENSG00000164406	LEAP2	7.30427063	1.681243268	0.2135414
ENSG00000137261	KIAA0319	58.95911312	1.679262359	0.000958731
ENSG00000170899	GSTA4	3040.166654	1.679240319	2.86E-06
ENSG00000207181	SNORA14B	38.81796332	1.67923497	0.028225586
ENSG00000182585	EPGN	6.839180574	1.67867109	0.389196336
ENSG00000287190	AC239799.2	8.285798754	1.678198059	0.184069697
ENSG00000231233	CFAP58-DT	24.46081	1.677313118	0.031331528
ENSG00000161091	MFSD12	28134.29807	1.676200206	1.05E-12
ENSG00000162777	DENND2D	4923.510449	1.674652492	5.09E-08
ENSG00000198758	EPS8L3	10.32482024	1.672759833	0.112970019
ENSG00000204588	LINC01123	4.645157758	1.672445864	0.428006649
ENSG00000170848	PSG6	34603.07421	1.670824163	2.05E-07
ENSG00000263368	AC069366.1	9.38676737	1.67062239	0.180271312
ENSG00000271849	AC012603.1	5.167011152	1.669959606	0.281803994
ENSG00000263412	AC004477.1	8.338566425	1.669866619	0.174487471
ENSG00000203896	LIME1	56.07541366	1.668037861	0.003422407
ENSG00000283528	TCAF2C	10.34548928	1.667567178	0.168471015
ENSG00000124257	NEURL2	4.220659542	1.664859467	0.453946929
ENSG00000155926	SLA	8.265595121	1.664493063	0.412179632
ENSG00000015413	DPEP1	8.263296906	1.664264321	0.187537606
ENSG00000254531	AP001816.1	165.1637741	1.664038779	5.58E-06
ENSG00000286162	AL162253.2	61.24230208	1.663357055	0.00016984
ENSG00000166278	C2	11.84283583	1.662716009	0.083520395

ENSG00000277738	AC126175.2	369.2317752	1.662390419	8.11E-09
ENSG00000177369	AC004797.1	4.154336712	1.662125241	0.429122628
ENSG00000162086	ZNF75A	383.3587535	1.661404055	3.66E-06
ENSG00000142039	CCDC97	4414.879928	1.660637565	3.82E-11
ENSG00000260267	AC026471.1	42.59023694	1.659425465	0.001365413
ENSG00000260352	AC092287.1	5.623036559	1.658838022	0.34958547
ENSG00000261437	AC108860.2	19.87829969	1.655757041	0.075741677
ENSG00000258311	AC009779.3	7.767046782	1.653595697	0.177686908
ENSG00000257336	PRELID2P1	77.52041186	1.652940574	0.002308044
ENSG00000231770	TMEM44-AS1	176.0209214	1.652581229	5.67E-07
ENSG00000100351	GRAP2	41.47569138	1.652396589	0.035029445
ENSG00000266933	AC005775.1	8.408939619	1.651842617	0.283634217
ENSG00000166510	CCDC68	281.0455293	1.650701834	3.80E-06
ENSG00000286669	AC008532.1	6.101978607	1.650121864	0.227377557
ENSG00000248527	MTATP6P1	8068.308958	1.649000553	1.85E-07
ENSG00000002726	AOC1	274.4316497	1.648985041	0.000337643
ENSG00000226328	NUP50-DT	1039.726085	1.648260577	8.67E-13
ENSG00000086289	EPDR1	6.08740899	1.647786078	0.443013866
ENSG00000272356	AL080317.2	121.6053618	1.647359697	1.73E-06
ENSG00000118514	ALDH8A1	10.96117573	1.646557029	0.156217428
ENSG00000005249	PRKAR2B	127.0133098	1.645685196	0.001069222
ENSG00000197934	CYYR1-AS1	17.22830911	1.643161474	0.044018196
ENSG00000263823	AC009831.1	13.30411154	1.642887481	0.066879054
ENSG00000108786	HSD17B1	11631.26293	1.641276831	6.57E-10

ENSG00000257813	AC090525.2	16.28995525	1.640238765	0.044328208
ENSG00000255508	AP002990.1	198.7491344	1.638954996	1.14E-09
ENSG00000259663	AC010478.1	5.031362792	1.638387166	0.524092342
ENSG00000146826	MAP11	1246.222504	1.638310717	6.90E-19
ENSG00000170485	NPAS2	247.3571994	1.637914653	4.41E-05
ENSG00000180573	HIST1H2AC	1145.52628	1.637062857	1.64E-13
ENSG00000234912	SNHG20	159.1573857	1.636843171	3.42E-05
ENSG00000142513	ACP4	57.48186655	1.636638068	0.009110695
ENSG00000239569	KMT2E-AS1	208.6445241	1.636529455	5.98E-07
ENSG00000130066	SAT1	32487.25753	1.636235987	4.43E-08
ENSG00000170579	DLGAP1	6.231164904	1.633823086	0.366126145
ENSG00000248275	TRIM52-AS1	152.642366	1.63375247	2.76E-07
ENSG00000121966	CXCR4	8.053483841	1.633609733	0.222038731
ENSG00000234498	RPL13AP20	6.304658045	1.63353589	0.37483713
ENSG00000198959	TGM2	45578.73342	1.633252459	6.05E-07
ENSG00000246898	LINC00920	67.70901508	1.632363851	0.00043016
ENSG00000259605	AC074212.1	19.73443733	1.632208742	0.04068365
ENSG00000234705	HMGA1P4	5.129611088	1.630329233	0.378947088
ENSG00000269646	AC010487.2	8.095934875	1.629882863	0.218305674
ENSG00000275449	MIR6859-3	8.157901844	1.629341258	0.226086247
ENSG00000248932	AC046134.2	22.6437307	1.628234673	0.033466947
ENSG00000283078	AL137077.2	63.39701386	1.6259862	0.000732259
ENSG00000286729	AC137695.3	14.81608862	1.624595585	0.067378038
ENSG00000181773	GPR3	17.69846959	1.622160868	0.03670575

ENSG00000232434	AJM1	86.48493361	1.622065666	0.000852284
ENSG00000278600	AC015871.4	58.07372645	1.621865194	0.000108283
ENSG00000232479	AC010900.1	5.912842728	1.621640823	0.377971549
ENSG00000213076	AL627422.1	5.540928707	1.620587889	0.304283041
ENSG00000277287	AL109976.1	15.02888066	1.620293721	0.070922934
ENSG00000235027	AC068580.3	8.556443353	1.620248968	0.158160928
ENSG00000280620	SCAANT1	9.488544083	1.619760908	0.254994746
ENSG00000101940	WDR13	2584.990102	1.618685546	8.94E-18
ENSG00000271387	AL445228.2	19.09875549	1.618072528	0.035365682
ENSG00000214093	AL096701.1	4.050717313	1.617504048	0.539158395
ENSG00000152463	OLAH	10.56493764	1.617069919	0.133220553
ENSG00000102935	ZNF423	21.52454286	1.616524778	0.066461413
ENSG00000250608	AC010210.1	7.464483562	1.616487259	0.287324257
ENSG00000043143	JADE2	12570.36735	1.616369336	1.17E-09
ENSG00000149483	TMEM138	1280.633198	1.6157936	1.21E-10
ENSG00000178297	TMPRSS9	31.42310235	1.615723409	0.012817828
ENSG00000225697	SLC26A6	2036.988993	1.615183025	1.46E-07
ENSG00000158023	WDR66	1127.315114	1.614228571	1.11E-05
ENSG00000169429	CXCL8	7.155953135	1.613863135	0.224239171
ENSG00000171604	CXXC5	2498.440572	1.611888091	4.97E-18
ENSG00000114841	DNAH1	149.8645185	1.607959019	4.40E-05
ENSG00000227359	AC017074.1	7.084107935	1.607706616	0.258888828
ENSG00000204390	HSPA1L	43.32287306	1.606714795	0.006775407
ENSG00000287804	Z98745.2	31.53674198	1.606084864	0.005465225

ENSG00000185056	C5orf47	9.054787367	1.604348411	0.192052437
ENSG00000243130	PSG11	1824.917065	1.604064355	1.09E-07
ENSG00000134020	PEBP4	4.946582164	1.603741863	0.509209601
ENSG00000141854	MISP3	3072.498467	1.602705513	4.50E-17
ENSG00000168026	TTC21A	36.18122634	1.602093507	0.003184229
ENSG00000258056	AC009779.2	247.7348627	1.602076856	1.83E-07
ENSG00000271918	AC034236.2	10.0247927	1.602036414	0.117587966
ENSG00000231890	DARS-AS1	4.446496305	1.60113456	0.457094726
ENSG00000270835	AP001425.1	2.532262086	1.601051681	0.626750499
ENSG00000282458	WASH5P	46.25055481	1.599325879	0.004863429
ENSG00000117643	MAN1C1	1685.951508	1.598995797	1.74E-09
ENSG00000176410	DNAJC30	398.5507799	1.598979063	8.39E-08
ENSG00000164896	FASTK	5580.435389	1.59851043	1.38E-16
ENSG00000273058	AL359921.2	27.30864323	1.598490482	0.041590848
ENSG00000181754	AMIGO1	60.14095553	1.596697327	0.00309931
ENSG00000260219	CD2BP2-DT	23.68093428	1.596050523	0.069183933
ENSG00000213385	AC105052.2	28.77177181	1.595862015	0.045829402
ENSG00000182600	SNORC	96.78655851	1.595830039	2.13E-06
ENSG00000273066	AL355987.4	31.2930917	1.594364483	0.037684404
ENSG00000068976	PYGM	29.55519435	1.593650441	0.073717327
ENSG00000271789	AL080317.1	24.64770232	1.593369001	0.040871165
ENSG00000198400	NTRK1	6.83862696	1.59251304	0.360678688
ENSG00000183784	DOCK8-AS1	17.7892811	1.592060969	0.066802498
ENSG00000185065	AC000068.1	6.492448634	1.591453703	0.241027322

ENSG00000139874	SSTR1	3.953635967	1.590682697	0.439652892
ENSG00000188710	QRFP	7.522142784	1.590670986	0.2365479
ENSG00000234509	AP000253.1	7.189373438	1.590298293	0.365197177
ENSG00000272669	AL021707.6	36.05602227	1.588454098	0.033021122
ENSG00000224635	AL391095.1	14.5567675	1.587028598	0.110137429
ENSG00000268996	MAN1B1-DT	18.94199185	1.58608341	0.051817338
ENSG00000231784	DBIL5P	6.343142132	1.584925402	0.338097771
ENSG00000272523	LINC01023	18.58763812	1.583315748	0.125203279
ENSG00000144182	LIPT1	207.8521768	1.58295457	3.09E-05
ENSG00000235488	JARID2-AS1	6.932246007	1.580184394	0.221022929
ENSG00000234719	NPIPB2	57.46493134	1.579646282	0.084104639
ENSG00000158865	SLC5A11	6.941825566	1.579395739	0.305240834
ENSG00000154319	FAM167A	16.6480774	1.578167773	0.059499959
ENSG00000168004	PLAAT5	205.8277159	1.577938049	8.59E-06
ENSG00000197180	AC244090.1	47.1784965	1.574384166	0.010910774
ENSG00000254614	AP003068.2	111.6049427	1.573947265	0.001268871
ENSG00000260588	AC027702.1	9.722876813	1.572463441	0.175553377
ENSG00000255185	PDXDC2P	2.882581132	1.570830941	0.566243879
ENSG00000260220	CCDC187	10.84353099	1.570813615	0.16095097
ENSG00000277224	HIST1H2BF	10.33152822	1.569359884	0.118401912
ENSG00000258655	ARHGAP5-AS1	20.10622038	1.569312443	0.032880611
ENSG00000272894	AC004982.2	76.57963163	1.569197298	0.000183685
ENSG00000288073	AC022463.1	11.75689715	1.568159083	0.17214427
ENSG00000278970	HEIH	50.35874828	1.567744577	0.006422617

ENSG00000111405	ENDOU	3217.67662	1.566480097	3.00E-18
ENSG00000246089	AC016065.1	114.6242256	1.566312402	0.000137388
ENSG00000252697	RN7SKP209	57.28051604	1.566275425	0.005785911
ENSG00000283633	AP000547.3	2883.332257	1.565491548	6.12E-14
ENSG00000196337	CGB7	5846.681539	1.565000338	3.64E-09
ENSG00000185345	PRKN	2.953283538	1.563344531	0.614663766
ENSG00000225833	AC097625.1	10.93245172	1.563075535	0.303633296
ENSG00000272906	AL353708.3	7.292009963	1.562465612	0.223337668
ENSG00000260136	AC008915.2	18.98058047	1.561043687	0.131405306
ENSG00000259120	SMIM6	69.86677185	1.56089963	0.000235475
ENSG00000178809	TRIM73	23.14046421	1.560774249	0.082995127
ENSG00000234284	ZNF879	103.5562881	1.559929668	0.0023082
ENSG00000272205	AL451050.2	24.73220825	1.55939006	0.033588932
ENSG00000174567	GOLT1A	818.8962848	1.558673843	6.00E-05
ENSG00000180879	SSR4	12478.82045	1.557049049	7.12E-19
ENSG00000132763	MMACHC	519.4596494	1.55658655	3.53E-11
ENSG00000159884	CCDC107	55.70536655	1.555836156	0.001919628
ENSG00000227477	STK4-AS1	5.870518121	1.555254399	0.288310472
ENSG00000247372	AC008897.2	27.38310684	1.555103455	0.05491328
ENSG00000033100	CHPF2	2011.476916	1.554957475	1.29E-08
ENSG00000221817	PPP3CB-AS1	34.89864411	1.554953228	0.019946929
ENSG00000230510	PPP5D1	6.103634402	1.554548427	0.501012097
ENSG00000122735	DNAI1	45.22502655	1.553493756	0.006371638
ENSG00000213225	NOC2LP1	306.4493356	1.552808089	6.28E-08

ENSG00000177694	NAALADL2	42.74953502	1.55278716	0.006938801
ENSG00000091137	SLC26A4	5.962717608	1.551810398	0.409144424
ENSG00000176293	ZNF135	8.669489024	1.551351564	0.248138828
ENSG00000111490	TBC1D30	188.3836442	1.54983548	6.63E-06
ENSG00000238150	AC008753.1	28.26981974	1.549718671	0.010246585
ENSG00000101441	CST4	23.46497443	1.547499337	0.05521938
ENSG00000250365	AL139353.2	9.652685869	1.546482029	0.170404173
ENSG00000183665	TRMT12	838.0252582	1.545173194	3.24E-06
ENSG00000100485	SOS2	1819.613816	1.545142648	2.65E-06
ENSG00000162490	DRAXIN	3.92401902	1.545094516	0.479106131
ENSG00000261220	AC103706.1	47.13941032	1.544281284	0.003772899
ENSG00000135454	B4GALNT1	15.58119242	1.543871262	0.065047931
ENSG00000114395	CYB561D2	631.2023945	1.543673119	3.93E-12
ENSG00000279088	AC022400.6	228.2376777	1.543321162	1.92E-06
ENSG00000172794	RAB37	4.847986742	1.542353312	0.477870396
ENSG00000158869	FCER1G	10.54214509	1.541550427	0.16768036
ENSG00000159899	NPR2	17.03097017	1.541523769	0.117951927
ENSG00000166763	STRCP1	58.21948805	1.541201457	0.002771306
ENSG00000268903	AL627309.6	51.79172091	1.539037023	0.001435694
ENSG00000187556	NANOS3	6.81012114	1.537003056	0.250032323
ENSG00000286585	AC104472.4	5.391073077	1.533859077	0.504038083
ENSG00000111254	AKAP3	10.71220976	1.532293559	0.267440379
ENSG00000228395	AL356481.1	23.74725979	1.532252763	0.027283242
ENSG00000124467	PSG8	1177.601998	1.532081303	0.088437292

ENSG00000174177	CTU2	982.6753988	1.531971511	3.83E-09
ENSG00000230426	ERVMER61-1	336.6340202	1.531859903	0.000177307
ENSG00000204666	AC010624.1	3.331176079	1.530953841	0.557536144
ENSG00000203697	CAPN8	13.99443944	1.530898782	0.141326826
ENSG00000204237	OXLD1	1430.234643	1.530782058	2.45E-08
ENSG00000124664	SPDEF	214.2737075	1.5307494	0.002547921
ENSG00000117318	ID3	26742.05762	1.529508405	3.19E-09
ENSG00000245552	AP000787.1	20.49144309	1.529340865	0.101354726
ENSG00000262097	LINC02185	3.746537748	1.528341849	0.587572848
ENSG00000286339	Z99496.2	26.29103245	1.528113923	0.036069081
ENSG00000053501	USE1	1057.48335	1.526927052	1.27E-12
ENSG00000196126	HLA-DRB1	15.63095057	1.526208648	0.125712373
ENSG00000124091	GCNT7	4.869428	1.525388295	0.40701407
ENSG00000185640	KRT79	34.48436916	1.524460152	0.006008346
ENSG00000137642	SORL1	1148.099485	1.523442401	8.13E-05
ENSG00000274849	AC023043.4	10.68978441	1.522298941	0.154011055
ENSG00000167780	SOAT2	3.852883293	1.52223949	0.464636874
ENSG00000267064	UXT-AS1	51.97317923	1.519893988	0.00255021
ENSG00000229261	AL596223.1	5.911045985	1.519735822	0.477417348
ENSG00000177138	FAM9B	7.704471914	1.519266421	0.223796921
ENSG00000123143	PKN1	2073.583865	1.518439855	1.76E-11
ENSG00000135766	EGLN1	316.1141991	1.518040408	3.97E-09
ENSG00000184270	HIST2H2AB	5.173270419	1.517688014	0.39019025
ENSG00000272702	AC010913.1	4.697447705	1.517126175	0.581812285

ENSG00000272345	AL031775.1	8.552027938	1.516477191	0.190775423
ENSG00000211448	DIO2	850.4149793	1.515554514	0.217692909
ENSG00000140691	ARMC5	388.6445733	1.515410841	1.73E-07
ENSG00000272758	AC083798.2	17.44876575	1.514413905	0.206138127
ENSG00000196366	C9orf163	10.6971555	1.514310128	0.360193496
ENSG00000185112	FAM43A	16764.76318	1.514243925	5.58E-12
ENSG00000138152	BTBD16	5.817613963	1.513769392	0.396501323
ENSG00000143450	OAZ3	47.79980459	1.513568222	0.016394418
ENSG00000140986	RPL3L	91.51647365	1.51311834	0.003562411
ENSG00000287315	AL670729.3	6.235042528	1.512305243	0.468838448
ENSG00000282572	AC215522.2	6.670023627	1.511911081	0.295640236
ENSG00000224940	PRRT4	7.870825732	1.510432895	0.384627944
ENSG00000235919	ASH1L-AS1	32.79113059	1.510377258	0.012138092
ENSG00000174963	ZIC4	5.744376808	1.509298063	0.404168947
ENSG00000260466	AC126696.2	6.124637853	1.508222185	0.298976434
ENSG00000284968	AC093827.4	363.0592056	1.50742659	3.83E-07
ENSG00000254206	NPIPB11	26.64198369	1.507408099	0.082237605
ENSG00000233868	AC009302.1	7.189996535	1.505872325	0.258158768
ENSG00000232352	SEMA3B-AS1	22.51143348	1.505556242	0.189669596
ENSG00000287529	AC068946.3	21.95787213	1.504827004	0.066689446
ENSG00000246130	AC107959.2	16.82366285	1.504725109	0.153835024
ENSG00000143303	RRNAD1	1205.382486	1.503760574	6.00E-08
ENSG00000136490	LIMD2	7.691564092	1.50319892	0.388437009
ENSG00000171405	XAGE5	3.769830659	1.502939646	0.533165417

ENSG00000160888	IER2	6121.679769	1.502819267	5.76E-09
ENSG00000105852	PON3	16.77180775	1.500903369	0.110367783
ENSG00000280198	AC087163.3	6.552383669	1.500404814	0.370982709
ENSG00000141424	SLC39A6	3135.194086	1.4983906	1.71E-17
ENSG00000287104	AC097382.3	75.52732901	1.498147231	0.000403247
ENSG00000145198	VWA5B2	9.566830186	1.498085623	0.215637196
ENSG00000263990	AC004253.1	4.683096708	1.497136306	0.396003364
ENSG00000105472	CLEC11A	5108.315635	1.4970718	1.41E-07
ENSG00000163297	ANTXR2	64.68890194	1.496438788	0.002101027
ENSG00000182472	CAPN12	197.360526	1.496403123	6.33E-05
ENSG00000260325	HSPB9	9.872991497	1.495939146	0.273754603
ENSG00000273899	NOL12	166.8511559	1.494635342	1.29E-05
ENSG00000260285	AL133367.1	15.95075455	1.494629595	0.102648811
ENSG00000141741	MIEN1	1200.488728	1.493764522	1.53E-10
ENSG00000286366	AC005052.2	10.26785669	1.492892814	0.18821895
ENSG00000101695	RNF125	4.701650561	1.492647009	0.475744919
ENSG00000142530	FAM71E1	37.96192484	1.492025528	0.010869112
ENSG00000169507	SLC38A11	21.20287628	1.491565499	0.072967664
ENSG00000197880	MDS2	12.24942005	1.490642696	0.133965058
ENSG00000148341	SH3GLB2	17313.21708	1.490507431	1.27E-07
ENSG00000282885	AL627171.2	35.64302502	1.489540691	0.010910774
ENSG00000087842	PIR	1126.083767	1.48913251	4.22E-10
ENSG00000010671	BTK	72.94995851	1.488242679	0.000565359
ENSG00000157168	NRG1	6.654162715	1.487871238	0.300930497

ENSG00000245848	CEBPA	5660.37665	1.485529231	1.75E-07
ENSG00000139344	AMDHD1	5.143110343	1.483737467	0.389448153
ENSG00000049192	ADAMTS6	1141.192313	1.483729654	6.39E-13
ENSG00000073737	DHRS9	2417.980565	1.482110246	5.57E-08
ENSG00000161010	MRNIP	703.2958415	1.48140528	1.54E-07
ENSG00000102996	MMP15	28612.4768	1.480572255	3.03E-06
ENSG00000287074	AC137561.1	11.71017975	1.47803344	0.158815722
ENSG00000188833	ENTPD8	11.48174488	1.477628699	0.209771694
ENSG00000275457	AL117332.1	8.906130273	1.477339195	0.185855725
ENSG00000133055	MYBPH	28.5333233	1.47715049	0.068175168
ENSG00000246705	H2AFJ	5355.17827	1.477104581	1.49E-14
ENSG00000171462	DLK2	30.7731571	1.476990059	0.034628701
ENSG00000117115	PADI2	337.2210119	1.476481194	0.000480861
ENSG00000272716	AL121658.1	21.11150017	1.475452216	0.048192138
ENSG00000256940	PPP1R14B-AS1	7.440720166	1.475373164	0.257692251
ENSG00000196204	RNF216P1	1275.378788	1.475248693	3.34E-15
ENSG00000152766	ANKRD22	7.60130938	1.475103703	0.282406391
ENSG00000162241	SLC25A45	95.51326332	1.474551629	0.000219017
ENSG00000170627	GTSF1	15.08924386	1.474500748	0.115471273
ENSG00000163481	RNF25	1445.875914	1.473879995	1.65E-08
ENSG00000228451	SDAD1P1	66.58009946	1.473401916	0.001780194
ENSG00000254017	IGHEP2	9.847903682	1.47336335	0.225804846
ENSG00000164967	RPP25L	425.2745243	1.472206552	1.91E-06
ENSG00000177971	IMP3	649.883222	1.471853823	1.70E-10

ENSG00000161914	ZNF653	99.27243453	1.471308987	0.00017681
ENSG00000106608	URGCP	1174.965201	1.471285694	1.61E-10
ENSG00000167920	TMEM99	524.3052093	1.470467078	9.32E-09
ENSG00000262155	LINC02175	13.83806381	1.469289251	0.15205784
ENSG00000108840	HDAC5	9012.722798	1.468885429	3.01E-10
ENSG00000257433	AC004241.1	8.930313368	1.4685929	0.229896122
ENSG00000155016	CYP2U1	49.41348695	1.468533396	0.055663358
ENSG00000187764	SEMA4D	1142.546474	1.468406782	0.092168538
ENSG00000235560	AC002310.1	26.47799757	1.4668027	0.047455303
ENSG00000272715	AL157904.1	6.951076446	1.46618297	0.431312104
ENSG00000225830	ERCC6	627.293709	1.465915852	2.50E-11
ENSG00000100336	APOL4	107.6210036	1.465795012	1.76E-05
ENSG00000253238	AC034114.2	29.27617074	1.465243091	0.093227886
ENSG00000241889	AC079944.2	15.63771343	1.464695676	0.158748064
ENSG00000271427	AL358072.1	20.37131574	1.464630473	0.090212434
ENSG00000171208	NETO2	224.5106577	1.463550425	2.93E-06
ENSG00000247853	AC006064.2	9.363190205	1.463294244	0.186843027
ENSG00000255046	AC069185.1	5.147578948	1.462757566	0.433642606
ENSG00000005379	TSPOAP1	8.351032514	1.462668723	0.325055444
ENSG00000166770	ZNF667-AS1	335.6961249	1.461943438	5.72E-05
ENSG00000119630	PGF	148904.2076	1.461221743	2.61E-07
ENSG00000230423	AL672310.1	25.00550561	1.460887322	0.095757397
ENSG00000072778	ACADVL	30633.75372	1.460604201	1.66E-14
ENSG00000112186	CAP2	4026.688114	1.460427383	2.23E-12

ENSG00000260368	AC027373.1	14.30610667	1.459853657	0.298839581
ENSG00000182405	PGBD4	66.44647187	1.459061034	0.006152627
ENSG00000287005	AC090018.2	11.14395277	1.458819513	0.272756199
ENSG00000179085	DPM3	1378.848039	1.457015108	1.19E-06
ENSG00000282021	AC100810.3	16.67793131	1.4569592	0.132460409
ENSG00000085514	PILRA	71.25562842	1.456957463	0.000458985
ENSG00000257727	CNPY2	63.31851086	1.455624869	0.000758315
ENSG00000204248	COL11A2	14.64039153	1.455594764	0.19450495
ENSG00000111641	NOP2	17.74495639	1.455539011	0.095915507
ENSG00000095637	SORBS1	2521.773054	1.454918788	2.27E-13
ENSG00000180316	PNPLA1	4.56680203	1.454143565	0.58944062
ENSG00000278231	AL133342.1	15.84935608	1.45376211	0.089762499
ENSG00000181264	TLCD5	181.4993892	1.453546011	0.000278746
ENSG00000102924	CBLN1	8.411312848	1.453443939	0.270823551
ENSG00000257303	AC073896.2	9.266318784	1.452539484	0.329318048
ENSG00000162004	CCDC78	34.08471334	1.452287182	0.03976052
ENSG00000170689	HOXB9	7.535186714	1.452256865	0.280511882
ENSG00000196263	ZNF471	32.63137231	1.451818915	0.022026155
ENSG00000114279	FGF12	9.210026677	1.451619629	0.187275547
ENSG00000187123	LYPD6	3.706547113	1.451296299	0.512701258
ENSG00000108846	ABCC3	27.12335018	1.45122549	0.094779048
ENSG00000130734	ATG4D	933.5897097	1.450559949	6.57E-09
ENSG00000273199	AP000692.2	7.397631488	1.449520474	0.328435078
ENSG00000279483	AC090498.1	169.33406	1.449263067	2.18E-05

ENSG00000204389	HSPA1A	1351.36015	1.448373455	6.43E-07
ENSG00000067798	NAV3	12.06696871	1.448291645	0.175372892
ENSG00000267390	AC036176.1	27.20428714	1.447471871	0.022993223
ENSG00000109846	CRYAB	355.543798	1.447184893	0.000789093
ENSG00000175416	CLTB	3500.526837	1.447042056	2.22E-13
ENSG00000069998	HDHD5	1112.776405	1.446372266	6.34E-11
ENSG00000146556	WASH2P	418.8652256	1.446249094	8.46E-07
ENSG00000198899	MT-ATP6	114494.3206	1.446095651	5.40E-06
ENSG00000165443	PHYHIPL	119.0157875	1.44470611	0.003754885
ENSG00000168101	NUDT16L1	829.2386156	1.443830197	5.35E-10
ENSG00000232729	AC211433.1	129.7880077	1.443464522	1.04E-05
ENSG00000183935	HTR7P1	11.1743717	1.441733986	0.228173442
ENSG00000157765	SLC34A2	6.511236388	1.441092067	0.347905952
ENSG00000127774	EMC6	82.48146673	1.440654253	0.000523756
ENSG00000063015	SEZ6	16.74593317	1.44000495	0.095909447
ENSG00000287443	AL357558.3	9.588434841	1.439958007	0.356413664
ENSG00000270673	YTHDF3-AS1	19.28980024	1.439572725	0.159955836
ENSG00000260428	SCX	30.16676613	1.438581478	0.043346596
ENSG00000177738	AC025171.1	64.3084128	1.438536379	0.000868764
ENSG00000106565	TMEM176B	10.13633052	1.438325594	0.187306288
ENSG00000260088	DDX59-AS1	9.989649126	1.43832392	0.282406391
ENSG00000261829	AC009407.1	28.79473061	1.437195686	0.04044437
ENSG00000134240	HMGCS2	1131.131774	1.437084488	0.000884914
ENSG00000234737	KRT18P15	67.52778465	1.436700112	0.007074319

ENSG00000261840	AC093249.6	30.73209722	1.436631177	0.016018081
ENSG00000288380	CRIPAK	102.6995616	1.436123067	9.46E-05
ENSG00000170482	SLC23A1	32.47266954	1.436070468	0.034216127
ENSG00000285820	AL157829.1	36.51698398	1.435322723	0.00969877
ENSG00000154118	JPH3	21.644025	1.433842236	0.052134745
ENSG00000179407	DNAJB8	5.069584822	1.433439545	0.383090602
ENSG00000269191	AC005387.2	11.08560284	1.432938739	0.299673478
ENSG00000271303	SRXN1	65.0887696	1.432070817	0.002825572
ENSG00000260177	AC126696.1	4.741319838	1.431917011	0.52286141
ENSG00000241157	AC104763.1	48.88471623	1.43061849	0.032986288
ENSG00000259736	CRTC3-AS1	5.575272318	1.430119261	0.433303487
ENSG00000286086	AC099661.1	21.80336405	1.430034992	0.059610615
ENSG00000006747	SCIN	332.6925276	1.429607574	4.21E-06
ENSG00000200087	SNORA73B	36.08983998	1.428131095	0.018943053
ENSG00000110090	CPT1A	680.083035	1.426822487	2.57E-09
ENSG00000160606	TLCD1	1212.282604	1.42682035	6.70E-10
ENSG00000175602	CCDC85B	723.9942685	1.426505907	8.15E-10
ENSG00000136367	ZFHX2	11.138752	1.425441371	0.217822279
ENSG00000177946	CENPBD1	663.8746085	1.425300766	8.73E-08
ENSG00000260708	AL118516.1	100.5940371	1.424655193	0.009825735
ENSG00000254416	LINC02732	177.2323324	1.423914598	1.36E-05
ENSG00000227308	LINC02832	18.09638118	1.423608454	0.163321701
ENSG00000170075	GPR37L1	33.13418423	1.423506407	0.023040293
ENSG00000253716	MINCR	96.95353495	1.423322706	0.004030494

ENSG00000186765	FSCN2	12.87513937	1.420700147	0.138467369
ENSG00000215477	RCN1P1	182.0800572	1.420230253	9.34E-07
ENSG00000203288	TDRKH-AS1	16.22563919	1.419060271	0.10745784
ENSG00000198727	MT-CYB	97539.76571	1.418384819	2.32E-05
ENSG00000224870	MRPL20-AS1	986.662753	1.417789075	2.43E-12
ENSG00000284196	AL158064.1	23.71933311	1.41756563	0.225968279
ENSG00000065320	NTN1	1740.845214	1.416395549	0.000394491
ENSG00000177453	NIM1K	33.45955115	1.415867025	0.090623512
ENSG00000198431	TXNRD1	14454.55804	1.415855285	6.81E-09
ENSG00000107719	PALD1	6.537673404	1.41518757	0.449827507
ENSG00000198682	PAPSS2	472.6552565	1.414209346	9.85E-11
ENSG00000178977	LINC00324	63.86343475	1.414191866	0.015768721
ENSG00000279368	AL031123.3	9.936834709	1.413018654	0.190244194
ENSG00000265799	AC090844.3	4.601884741	1.412432502	0.567712929
ENSG00000204397	CARD16	4563.405965	1.412017712	0.000343227
ENSG00000120458	MSANTD2	396.476673	1.411771855	7.53E-05
ENSG00000279464	AC096720.2	5.018966251	1.411722866	0.444101176
ENSG00000272787	AC253536.6	12.73809905	1.411598053	0.29076663
ENSG00000132768	DPH2	1829.646077	1.411571515	3.51E-10
ENSG00000185686	PRAME	14.57436259	1.411370021	0.148150445
ENSG00000205730	ITPRIPL2	1856.755163	1.411326752	1.36E-08
ENSG00000268061	NAPA-AS1	41.24964091	1.408347515	0.029445827
ENSG00000187796	CARD9	33.80832851	1.408042672	0.032085319
ENSG00000265321	MIR4263	6.260406315	1.407791807	0.383090602

ENSG00000286177	AC011462.5	108.7992745	1.407333967	0.000891729
ENSG00000138207	RBP4	12.65352735	1.405655538	0.121280617
ENSG00000157890	MEGF11	9.160314295	1.404559294	0.280848289
ENSG00000227234	SPANXB1	12.66161546	1.403263086	0.15528686
ENSG00000198886	MT-ND4	302875.053	1.402843462	6.55E-06
ENSG00000254477	AP000640.1	7.265794635	1.401648237	0.331502661
ENSG00000120471	TP53AIP1	6.373538362	1.400305977	0.493219477
ENSG00000123353	ORMDL2	1935.022892	1.399953834	4.03E-13
ENSG00000237015	AL031186.1	9.936387537	1.399746692	0.237968688
ENSG00000237984	PTENP1	50.54331881	1.398992795	0.003480695
ENSG00000229413	AC018638.1	13.13908151	1.398774704	0.138646486
ENSG00000226210	WASH8P	1419.254288	1.39877318	5.70E-10
ENSG00000230487	PSMG3-AS1	31.40002688	1.398672071	0.040900822
ENSG00000085465	OVGP1	1404.089344	1.398139306	9.85E-06
ENSG00000180953	AC015871.1	17.68503656	1.397692139	0.110070752
ENSG00000248538	AC022784.1	20.49936398	1.397263989	0.149524001
ENSG00000259877	AC009113.1	60.63547123	1.396875361	0.002791002
ENSG00000236439	AC099336.2	11.17526586	1.396503997	0.178357884
ENSG00000224152	AC009506.1	55.43957112	1.395835313	0.00932769
ENSG00000176076	KCNE5	69.70462761	1.394197197	0.000800903
ENSG00000158525	CPA5	42.62068067	1.393791632	0.009517544
ENSG00000263535	AK4P1	21.12796364	1.393429757	0.051754802
ENSG00000091536	MYO15A	9.444808732	1.391307644	0.238747167
ENSG00000115041	KCNIP3	13.16531765	1.390977018	0.242251678

ENSG00000286909	AC024560.4	8.132967255	1.390774014	0.242845801
ENSG00000134242	PTPN22	199.7699735	1.390281871	0.000319908
ENSG00000255248	MIR100HG	769.8591329	1.389972601	1.08E-09
ENSG00000100628	ASB2	224.5783987	1.389950452	0.001366986
ENSG00000287299	AC012459.1	6.174957572	1.389833742	0.414645245
ENSG00000248568	KRT8P48	4.041323371	1.388206903	0.50018993
ENSG00000159674	SPON2	108.6921411	1.387878086	0.004102255
ENSG00000169031	COL4A3	8.905796275	1.387802719	0.369710877
ENSG00000260941	LINC00622	59.66057012	1.387367156	0.004049252
ENSG00000145283	SLC10A6	13.08970178	1.386716256	0.21019667
ENSG00000278267	MIR6859-1	12.13727498	1.38589785	0.190837611
ENSG00000172732	MUS81	2570.825662	1.385554781	5.45E-12
ENSG00000175634	RPS6KB2	4049.934792	1.384806922	5.92E-13
ENSG00000205710	C17orf107	58.02482295	1.384086644	0.031822681
ENSG00000277561	GOLGA8IP	6.761817218	1.384062817	0.328115731
ENSG00000103485	QPRT	11954.13342	1.383977907	1.84E-08
ENSG00000138678	GPAT3	722.4557365	1.383847088	4.43E-08
ENSG00000149575	SCN2B	2.629561428	1.383416065	0.709509179
ENSG00000109066	TMEM104	953.9760367	1.382999325	1.73E-07
ENSG00000175573	C11orf68	2601.385986	1.382737134	1.52E-06
ENSG00000174917	MICOS13	766.2706397	1.382307514	1.18E-12
ENSG00000120156	TEK	14.15515664	1.381922983	0.154732561
ENSG00000259248	USP3-AS1	10.21529064	1.381488207	0.203237174
ENSG00000273729	AC007686.3	34.55638561	1.381213917	0.012267629

ENSG00000285278	TFAP2A-AS2	44.94428432	1.379139219	0.00885375
ENSG00000223496	EXOSC6	1097.30333	1.379100429	1.19E-06
ENSG00000133466	C1QTNF6	16001.45758	1.379018367	4.34E-14
ENSG00000153485	TMEM251	311.2173894	1.378287155	2.99E-08
ENSG00000167676	PLIN4	981.2487585	1.377896986	1.02E-05
ENSG00000255337	AP001830.1	12.34444809	1.377404882	0.210295095
ENSG00000269318	AC007292.2	6.242706276	1.375766413	0.322317169
ENSG00000132965	ALOX5AP	15.92841224	1.375440793	0.269324413
ENSG00000203709	MIR29B2CHG	19.90213125	1.374947791	0.156217428
ENSG00000287721	AC061975.8	8.017653116	1.373685257	0.274987799
ENSG00000214160	ALG3	4533.330018	1.37319948	1.09E-12
ENSG00000185475	TMEM179B	1452.971662	1.373155874	7.76E-12
ENSG00000141255	SPATA22	49.12012843	1.372794464	0.044439845
ENSG00000198435	NRARP	21.06497631	1.372651859	0.090983073
ENSG00000269981	AL627309.7	51.01861643	1.372527075	0.005507114
ENSG00000182648	LINC01006	9.768630165	1.372022485	0.281803994
ENSG00000173918	C1QTNF1	729.0273198	1.371733882	1.36E-06
ENSG00000234614	C2CD4D-AS1	58.52000294	1.371287962	0.003614035
ENSG00000269927	AC004817.3	7.103767949	1.371159541	0.352824636
ENSG00000267475	AC008736.1	19.7355333	1.370908482	0.077613754
ENSG00000287978	AC245407.2	72.84509586	1.370376101	0.004671714
ENSG00000269952	AL117336.1	10.65296867	1.369186949	0.210054445
ENSG00000183207	RUVBL2	15549.4428	1.368620398	4.89E-09
ENSG00000204363	SPANXN5	76.83501295	1.368437564	0.019011055

ENSG00000279583	AC009086.2	5.280401859	1.367878281	0.367964143
ENSG00000260118	AL157700.1	125.1818853	1.36782323	0.005465225
ENSG00000272004	FO704657.1	6.300075591	1.367161381	0.349961751
ENSG00000274922	AL139384.1	23.83078504	1.367030192	0.107088678
ENSG00000150787	PTS	1399.745747	1.366853674	5.16E-10
ENSG00000272288	AL451165.2	34.90393165	1.366584118	0.018477184
ENSG00000184260	HIST2H2AC	348.6287514	1.366025348	0.000297668
ENSG00000244242	IFITM10	4.312104457	1.365562461	0.593898536
ENSG00000261716	HIST2H2BC	125.4796745	1.364570379	0.000262149
ENSG00000235052	AL021154.1	4.848144754	1.364278244	0.410003399
ENSG00000134962	KLB	18.93010602	1.363828544	0.18676493
ENSG00000125462	C1orf61	866.4042637	1.363060957	1.08E-08
ENSG00000258789	AL162171.1	39.76304731	1.362852778	0.012201369
ENSG00000288437	AC108479.4	7.469157769	1.362637436	0.346451351
ENSG00000011132	APBA3	922.0826121	1.362026606	2.23E-08
ENSG00000228100	LINC01820	525.3399068	1.36129539	2.19E-06
ENSG00000114270	COL7A1	693.4661039	1.361112512	3.99E-05
ENSG00000155849	ELMO1	4001.079567	1.360309434	3.84E-10
ENSG00000232818	RPS2P32	7.237901619	1.360224015	0.414123938
ENSG00000112183	RBM24	807.8484643	1.359538898	1.27E-09
ENSG00000166341	DCHS1	15.26882153	1.359522871	0.19261635
ENSG00000167554	ZNF610	49.63472186	1.359158497	0.020103812
ENSG00000169885	CALML6	23.25185849	1.358811266	0.101705064
ENSG00000232234	AL355499.1	14.88505579	1.358662881	0.147564298

ENSG00000166446	CDYL2	491.0584456	1.357936112	4.72E-08
ENSG00000267342	AC087289.2	7.429321465	1.357840479	0.394474083
ENSG00000215256	DHRS4-AS1	24.85110665	1.357526345	0.040470453
ENSG00000272836	AL022328.1	4.92147165	1.357508348	0.458702698
ENSG00000197077	KIAA1671	3031.77295	1.355409232	8.55E-06
ENSG00000272153	AL365330.1	6.171919828	1.353667137	0.433179358
ENSG00000173110	HSPA6	21.54100073	1.353560244	0.15377478
ENSG00000168734	PKIG	1727.04773	1.353412563	3.37E-12
ENSG00000157423	HYDIN	5.384483722	1.352948364	0.569586064
ENSG00000122691	TWIST1	324.8805679	1.35223937	1.61E-05
ENSG00000241185	AC005410.1	28.04990734	1.349608346	0.050554545
ENSG00000235142	LINC02532	12.29271017	1.348051543	0.263529578
ENSG00000198840	MT-ND3	22678.32654	1.347560772	7.02E-07
ENSG00000159228	CBR1	2320.466422	1.347468552	4.47E-08
ENSG00000235920	AC073109.1	19.43848136	1.347249977	0.102655111
ENSG00000152779	SLC16A12	74.4930575	1.346956088	0.033805502
ENSG00000187609	EXD3	251.4600658	1.34684344	2.06E-06
ENSG00000230715	AC018638.2	75.88559973	1.346179284	0.000631494
ENSG00000271335	AL117336.2	8.96515875	1.345742241	0.30662463
ENSG00000243742	RPLP0P2	8.732976947	1.345733315	0.303097581
ENSG00000166049	PASD1	2.655874169	1.344517787	0.678069432
ENSG00000260443	AC127455.1	13.39092707	1.343442507	0.216980298
ENSG00000254602	AP000662.1	22.18946094	1.342804435	0.108057082
ENSG00000243279	PRAF2	32.81147663	1.342610721	0.022116807

ENSG00000136052	SLC41A2	915.9319311	1.339184609	2.48E-10
ENSG00000143942	CHAC2	40.69785264	1.338338244	0.012054829
ENSG00000119950	MXI1	187.6891999	1.337737117	0.000146723
ENSG00000266053	NDUFV2-AS1	39.9198818	1.337191659	0.044439845
ENSG00000284823	AL356747.1	7.065252697	1.336843485	0.370537041
ENSG00000105246	EBI3	363.4340659	1.336690997	0.002021494
ENSG00000104964	TLE5	20449.59215	1.336462911	2.45E-10
ENSG00000248257	PSG10P	21.53622357	1.336318284	0.15065151
ENSG00000151726	ACSL1	880.3925079	1.336216663	9.67E-09
ENSG00000260805	AC092803.1	111.6006944	1.335932335	0.000113606
ENSG00000157353	FCSK	619.2462019	1.335497741	4.21E-06
ENSG00000249042	AC008771.1	39.78375977	1.335319803	0.01482274
ENSG00000196436	NPIPB15	174.7839354	1.335244264	0.000729161
ENSG00000233718	MYCNOS	558.9639518	1.334651217	0.000310557
ENSG00000140455	USP3	881.0922077	1.334602574	4.14E-09
ENSG00000226548	AC016722.1	6.409262697	1.334495285	0.427963274
ENSG00000173432	SAA1	21.88214175	1.334097686	0.11712951
ENSG00000163632	C3orf49	13.59428838	1.33373593	0.147421159
ENSG00000180185	FAHD1	841.6238758	1.333090689	8.80E-12
ENSG00000270761	AL355353.1	12.1005407	1.332647976	0.224014165
ENSG00000117335	CD46	9945.228342	1.331279236	8.92E-08
ENSG00000153294	ADGRF4	540.2241103	1.33028216	8.84E-05
ENSG00000105963	ADAP1	14.33506714	1.329538478	0.16703991
ENSG00000158555	GDPD5	9279.842415	1.329290127	0.000302037

ENSG00000064961	HMG20B	18802.72411	1.328514225	4.27E-06
ENSG00000186452	TMPRSS12	6.902042985	1.327945359	0.371113481
ENSG00000086548	CEACAM6	21.44450856	1.327116428	0.060429015
ENSG00000090932	DLL3	27.64895402	1.32656615	0.064092192
ENSG00000198298	ZNF485	5.146882532	1.32585979	0.436679466
ENSG00000132002	DNAJB1	5338.55135	1.324650561	6.03E-09
ENSG00000265688	MAFG-DT	7.902244461	1.323970164	0.301833162
ENSG00000115919	KYNU	7529.849201	1.323742818	2.04E-07
ENSG00000198712	MT-CO2	202882.6404	1.322161192	0.00010256
ENSG00000237422	AL158071.4	5.966813229	1.321979418	0.501657201
ENSG00000224020	MIR181A2HG	13.94835618	1.321731558	0.151242025
ENSG00000164077	MON1A	506.4210559	1.321501369	1.05E-09
ENSG00000254840	AC024405.2	4.264324392	1.321271362	0.592297468
ENSG00000248685	LINC02484	267.9209942	1.320357896	4.03E-06
ENSG00000067606	PRKCZ	23215.93867	1.319904626	3.89E-13
ENSG00000131471	AOC3	45.44283263	1.31974663	0.008751005
ENSG00000146676	PURB	2342.555507	1.319149242	6.85E-14
ENSG00000124762	CDKN1A	49521.5149	1.319019182	3.71E-05
ENSG00000183668	PSG9	2897.669571	1.318528651	6.31E-09
ENSG00000109065	NAT9	1232.657973	1.318217752	2.07E-10
ENSG00000116016	EPAS1	65655.31064	1.31777312	1.09E-12
ENSG00000039650	PNKP	2541.053612	1.317572281	2.25E-07
ENSG00000165060	FXN	118.0300844	1.317532991	7.05E-05
ENSG00000232194	Z99943.1	51.62105315	1.317211393	0.049808251

ENSG00000153071	DAB2	33363.23805	1.316900017	1.50E-05
ENSG00000174358	SLC6A19	275.5498667	1.31641682	0.00129562
ENSG00000198208	RPS6KL1	219.2193491	1.314819967	0.00024975
ENSG00000185875	THNSL1	55.10175914	1.314267648	0.021452009
ENSG00000169403	PTAFR	138.3535185	1.311914371	0.021386748
ENSG00000125457	MIF4GD	480.1768889	1.311588984	2.13E-06
ENSG00000095066	HOOK2	2613.350552	1.310818326	1.45E-11
ENSG00000114248	LRRC31	10.5084863	1.310814405	0.246843525
ENSG00000182898	TCHHL1	98.88720908	1.310695518	0.024221395
ENSG00000089163	SIRT4	200.6523291	1.308181465	0.000265731
ENSG00000242474	AC093627.5	6.061002396	1.307066777	0.36802364
ENSG00000088386	SLC15A1	179.9414693	1.30657343	0.032295551
ENSG00000137806	NDUFAF1	1372.278205	1.305281514	3.35E-08
ENSG00000243137	PSG4	38192.53106	1.304952097	5.99E-07
ENSG00000262117	BCAR4	4908.6661	1.30448249	1.23E-06
ENSG00000244425	RN7SL268P	10.4703567	1.30389899	0.258625291
ENSG00000071575	TRIB2	4.629748744	1.303078674	0.503522407
ENSG00000115307	AUP1	12981.17274	1.300931053	2.12E-14
ENSG00000237310	AC008267.5	30.04033126	1.300254326	0.147145944
ENSG00000230882	AC005077.4	8.445484502	1.299980924	0.409541394
ENSG00000204231	RXRB	2309.081397	1.29798823	9.17E-08
ENSG00000232533	AC093673.1	48.81460282	1.296124485	0.005928131
ENSG00000149809	TM7SF2	1382.380831	1.295871714	1.10E-05
ENSG00000163738	MTHFD2L	77.93804915	1.29582673	0.005386682

ENSG00000251026	LINC02163	25.47196528	1.295772045	0.125354147
ENSG00000172250	SERHL	14.43281704	1.294989832	0.259494009
ENSG00000172725	CORO1B	14344.27555	1.294468686	1.19E-06
ENSG00000287434	AC109133.1	5.270086148	1.294247133	0.493264856
ENSG00000073803	MAP3K13	2740.130651	1.292095278	1.26E-13
ENSG00000264608	AC005726.3	6.380327004	1.291676147	0.376877791
ENSG00000269399	AC008764.6	30.04719862	1.29141326	0.073499384
ENSG00000205791	LOH12CR2	5.97270078	1.290838953	0.477567306
ENSG00000280195	AC245140.2	28.25433966	1.290591441	0.041103679
ENSG00000229344	MTCO2P12	10.49713606	1.290123566	0.378245748
ENSG00000262692	AC116914.2	5.45166912	1.289928255	0.519978846
ENSG00000255303	OR5BA1P	5.975720611	1.289122703	0.469200052
ENSG00000176714	CCDC121	66.19982249	1.288803007	0.018925487
ENSG00000136861	CDK5RAP2	3241.880312	1.288782603	1.14E-08
ENSG00000233101	HOXB-AS3	6.783504077	1.288337655	0.38962868
ENSG00000143458	GABPB2	257.6465558	1.287777042	1.89E-05
ENSG00000176788	BASP1	25125.6503	1.287425492	2.31E-11
ENSG00000230061	TRPM2-AS	7.573367886	1.287163667	0.456906699
ENSG00000196730	DAPK1	2331.22027	1.287032055	1.04E-06
ENSG00000245317	AC008393.1	16.52516992	1.286689981	0.120281896
ENSG00000262655	SPON1	10.42059948	1.28642258	0.317956277
ENSG00000175575	PAAF1	1143.655518	1.28634418	0.000669517
ENSG00000285190	AC018754.1	6.583276896	1.285451209	0.44892733
ENSG00000198744	MTCO3P12	13.75072526	1.285134731	0.224393312

ENSG00000247950	SEC24B-AS1	10.08833557	1.28505592	0.282338659
ENSG00000228253	MT-ATP8	4995.551769	1.284145712	0.000703092
ENSG00000267934	AC010300.1	6.881752373	1.282744893	0.336982345
ENSG00000163995	ABLIM2	124.7360724	1.282736393	0.002077635
ENSG00000100368	CSF2RB	7889.538758	1.282579621	1.93E-06
ENSG00000180423	HARBI1	317.071842	1.282332332	0.000959352
ENSG00000260806	AL163051.1	136.6152955	1.282094378	0.000524664
ENSG00000245156	AP001107.1	8.982029948	1.281889445	0.303853491
ENSG00000140459	CYP11A1	100098.0038	1.280727118	1.53E-06
ENSG00000138621	PPCDC	338.8587106	1.280483602	9.80E-05
ENSG00000121101	TEX14	927.1651994	1.28038073	9.22E-07
ENSG00000269743	SLC25A53	132.5049081	1.279831498	0.000128979
ENSG00000271855	AC073195.1	7.158959152	1.27981376	0.321315964
ENSG00000189410	SH2D5	363.4605153	1.279469228	2.81E-05
ENSG00000144579	CTDSP1	2389.129017	1.279314063	6.04E-09
ENSG00000279457	WASH9P	249.2366197	1.279222808	6.01E-05
ENSG00000185247	MAGEA11	43.23345181	1.278315847	0.036126403
ENSG00000257261	AC008014.1	58.79672486	1.277417686	0.007858017
ENSG00000172824	CES4A	22.86322876	1.276230458	0.131204223
ENSG00000275183	LENG9	45.16845677	1.275665812	0.01630943
ENSG00000171862	PTEN	14175.29097	1.275123606	1.42E-08
ENSG00000168234	TTC39C	57.58618633	1.27511728	0.128178805
ENSG00000178605	GTPBP6	2193.042975	1.27441488	3.67E-11
ENSG00000198680	TUSC1	143.9649803	1.273940353	0.000516914

ENSG00000150907	FOXO1	131.8920281	1.273115257	7.81E-05
ENSG00000159860	TCAF2P1	6.308049098	1.27279961	0.377875985
ENSG00000229320	KRT8P12	68.32098409	1.272608332	0.006511767
ENSG00000245532	NEAT1	4493.101325	1.270291009	0.000132489
ENSG00000267052	AC005050.1	4.199835915	1.2698372	0.552425088
ENSG00000223572	CKMT1A	3399.426755	1.269198998	2.72E-08
ENSG00000287064	AL606500.1	80.13084944	1.268560702	0.104151718
ENSG00000180532	ZSCAN4	72.36839616	1.268436202	0.014773404
ENSG00000181218	HIST3H2A	1463.7416	1.267740348	3.79E-06
ENSG00000068831	RASGRP2	781.8150056	1.266733447	2.74E-07
ENSG00000161265	U2AF1L4	27.1507441	1.265977859	0.06177941
ENSG00000174672	BRSK2	5.16110796	1.265460319	0.518923121
ENSG00000012061	ERCC1	1104.188128	1.265345356	5.68E-07
ENSG00000099958	DERL3	9.650683302	1.264792742	0.414670332
ENSG00000248485	PCP4L1	88.39496344	1.264507168	0.013645162
ENSG00000162783	IER5	6936.950449	1.263238216	4.28E-08
ENSG00000168925	CTRB1	24.61303317	1.263218353	0.095590843
ENSG00000227775	AL031282.1	6.655566934	1.262447157	0.385787911
ENSG00000176358	TAC4	22.34525593	1.26228177	0.127163397
ENSG00000173404	INSM1	19.29280079	1.262149742	0.137022074
ENSG00000171402	XAGE3	480.2185214	1.261991722	1.10E-07
ENSG00000173890	GPR160	825.2088044	1.260860594	0.000421721
ENSG00000172139	SLC9C1	12.88294504	1.26076788	0.253470075
ENSG00000154227	CERS3	23.72754893	1.25807624	0.144279045

ENSG00000204673	AKT1S1	7243.191829	1.257280493	7.94E-13
ENSG00000161920	MED11	311.1866064	1.257038331	2.46E-05
ENSG00000160886	LY6K	445.999708	1.255869038	6.82E-06
ENSG00000231160	KLF3-AS1	7.195318692	1.255434155	0.370619688
ENSG00000131480	AOC2	74.35811475	1.254648776	0.002523205
ENSG00000228393	LINC01004	58.77872854	1.2542087	0.012304912
ENSG00000105479	CCDC114	6.785867806	1.253827172	0.450019204
ENSG00000198225	FKBP1C	43.79934533	1.253717467	0.013800668
ENSG00000196981	WDR5B	211.8810827	1.253491682	0.002595725
ENSG00000204257	HLA-DMA	190.2008943	1.253352386	4.00E-05
ENSG00000198792	TMEM184B	19791.33016	1.252233573	3.23E-08
ENSG00000139540	SLC39A5	8.827304673	1.252073961	0.317237323
ENSG00000167716	WDR81	590.2204757	1.252010105	2.77E-07
ENSG00000184508	HDDC3	230.6276674	1.252003554	0.000243375
ENSG00000215182	MUC5AC	17.63650898	1.251608536	0.126173139
ENSG00000173083	HPSE	211.3105801	1.251496242	0.000100762
ENSG00000167112	TRUB2	1336.42784	1.251118272	5.75E-10
ENSG00000229388	LINC01715	10.96519278	1.250468952	0.345946123
ENSG00000241313	WWTR1-AS1	10.92819222	1.250408034	0.224430846
ENSG00000286448	AP006222.2	5.087932942	1.250370484	0.578219329
ENSG00000171435	KSR2	10.44357193	1.249910536	0.286172412
ENSG00000138821	SLC39A8	5050.656453	1.249802677	3.53E-09
ENSG00000141052	MYOCD	22.54144277	1.249590625	0.165607599
ENSG00000178919	FOXE1	3.336707346	1.248519657	0.63156994

ENSG00000186395	KRT10	1112.261661	1.244524445	1.33E-07
ENSG00000168806	LCMT2	218.5759866	1.244308004	0.000125593
ENSG00000069812	HES2	19685.76452	1.244200856	4.48E-05
ENSG00000104059	FAM189A1	5.849156353	1.244078465	0.491974216
ENSG00000259529	AL136295.5	6.71479483	1.242314424	0.374180525
ENSG00000108961	RANGRF	67.09291059	1.240864557	0.004667656
ENSG00000170873	MTSS1	1011.820102	1.240176687	7.46E-05
ENSG00000103037	SETD6	1192.944693	1.240074321	3.25E-09
ENSG00000206538	VGLL3	6155.233222	1.239748984	1.17E-05
ENSG00000273148	LINC00653	5.873187569	1.239589396	0.50942979
ENSG00000111678	C12orf57	637.6549286	1.239529046	1.99E-08
ENSG00000167114	SLC27A4	1944.96378	1.239121853	2.30E-08
ENSG00000183111	ARHGEF37	478.7652666	1.238869351	0.000116825
ENSG00000276966	HIST1H4E	15.7878889	1.238805679	0.212978247
ENSG00000247627	MTND4P12	12.09637944	1.238709698	0.268146053
ENSG00000177675	CD163L1	7.492079316	1.23861966	0.452318153
ENSG00000069667	RORA	37.00075356	1.238584817	0.056716418
ENSG00000242866	STRC	83.90257581	1.238422485	0.001077775
ENSG00000227268	KLLN	185.7349956	1.238341528	0.003712742
ENSG00000164746	C7orf57	11.94390593	1.237971713	0.268283974
ENSG00000184988	TMEM106A	20.09765349	1.237328037	0.203237174
ENSG00000241370	RPP21	34.83780247	1.23722099	0.154662275
ENSG00000184897	H1FX	944.3290061	1.236897054	2.35E-05
ENSG00000184730	APOBR	6136.728236	1.23640434	1.25E-05

ENSG00000198890	PRMT6	1278.866226	1.235818383	1.01E-08
ENSG00000100532	CGRRF1	401.371006	1.235238137	2.20E-05
ENSG00000269560	AC010422.4	9.673595169	1.235171255	0.291804667
ENSG00000270804	AC010326.4	72.72107427	1.234539759	0.004900845
ENSG00000129925	TMEM8A	5665.329924	1.234290819	4.71E-05
ENSG00000143543	JTB	361.3960377	1.233691732	5.84E-07
ENSG00000250934	AC016924.1	12.00380938	1.233602416	0.233985613
ENSG00000171222	SCAND1	1666.942103	1.233238444	2.75E-10
ENSG00000205085	FAM71F2	25.34802446	1.232913049	0.210529125
ENSG00000258469	CHMP4BP1	68.79666708	1.232815864	0.048922547
ENSG00000170296	GABARAP	18.04756106	1.232632996	0.169005448
ENSG00000224877	NDUFAF8	868.1944203	1.23183276	4.74E-07
ENSG00000100478	AP4S1	217.656851	1.231637598	1.46E-06
ENSG00000104823	ECH1	2622.325765	1.231618472	1.15E-05
ENSG00000142546	NOSIP	4068.063867	1.230926381	1.54E-11
ENSG00000216490	IFI30	5.88634394	1.230302461	0.505662325
ENSG00000279168	AC105052.4	9.806174307	1.230141999	0.331811243
ENSG00000223396	RPS10P7	33.55660799	1.229800026	0.048644883
ENSG00000277969	AC006449.6	64.64654216	1.229748455	0.027186813
ENSG00000228544	CCDC183-AS1	21.80329846	1.227722128	0.210559728
ENSG00000172803	SNX32	34.21530522	1.225588138	0.099143499
ENSG00000166166	TRMT61A	791.2398586	1.225556333	0.000964463
ENSG00000161011	SQSTM1	25027.27374	1.22528533	1.24E-14
ENSG00000152784	PRDM8	7.79330755	1.225180866	0.356569237

ENSG00000170456	DENND5B	189.2373519	1.224942053	8.34E-05
ENSG00000250959	GLUD1P3	50.92220199	1.224777453	0.033130207
ENSG00000260001	TGFBR3L	8.595194698	1.224058783	0.363006085
ENSG00000198837	DENND4B	1802.874734	1.22401373	9.70E-05
ENSG00000124713	GNMT	9.051788005	1.224006932	0.342493963
ENSG00000230666	CEACAM22P	21.18685844	1.223890499	0.241479864
ENSG00000220323	HIST2H2BD	45.21124797	1.223800929	0.024748353
ENSG00000198938	MT-CO3	121056.9176	1.22296733	0.000617242
ENSG00000213777	AC011487.1	10.06338333	1.222456989	0.291543456
ENSG00000228274	AL021707.2	18.53847644	1.221839523	0.183058112
ENSG00000187600	LINC02583	37.38608269	1.221759359	0.055155228
ENSG00000135116	HRK	55.27184789	1.221647654	0.021530207
ENSG00000100413	POLR3H	2362.967461	1.221218346	3.53E-07
ENSG00000157766	ACAN	86.11982579	1.22091291	0.005944728
ENSG00000259826	AC072061.1	15.32158477	1.220838099	0.233920981
ENSG00000249348	UGDH-AS1	12.44621333	1.220757646	0.200563133
ENSG00000106305	AIMP2	1499.297	1.220577401	2.41E-07
ENSG00000153165	RGPD3	21.90362556	1.220473452	0.106565145
ENSG00000183128	CALHM3	20.77184911	1.220137819	0.285238674
ENSG00000232671	ZNF687-AS1	13.04163076	1.219729902	0.332286322
ENSG00000077092	RARB	21.78723239	1.219662236	0.239002915
ENSG00000167549	CORO6	417.4830061	1.219025623	0.003208041
ENSG00000138185	ENTPD1	834.7282806	1.217970017	1.26E-06
ENSG00000270084	GAS5-AS1	6.615199415	1.217958792	0.414450847

ENSG00000064787	BCAS1	7.38216665	1.217877852	0.350336733
ENSG00000237596	AL138828.1	7.453007697	1.217850489	0.517981485
ENSG00000163697	APBB2	2266.532286	1.21758168	3.24E-08
ENSG00000114115	RBP1	16.68680549	1.216896029	0.180426398
ENSG00000108576	SLC6A4	104.6817268	1.21682812	0.003008089
ENSG00000175745	NR2F1	20.64072773	1.216369938	0.113418921
ENSG00000146242	TPBG	5711.847421	1.215605804	7.93E-07
ENSG00000162300	ZFPL1	494.8416052	1.215293465	6.63E-07
ENSG00000173457	PPP1R14B	3722.709868	1.215281349	1.04E-09
ENSG00000287825	AL035587.2	9.329738789	1.214481065	0.412309877
ENSG00000197119	SLC25A29	998.9953489	1.214314513	1.18E-05
ENSG00000171791	BCL2	817.146278	1.213545519	4.69E-05
ENSG00000165521	EML5	8.696991588	1.213326593	0.334727712
ENSG00000151881	TMEM267	280.7734739	1.213310161	3.35E-06
ENSG00000169371	SNUPN	302.1897049	1.212792096	0.000220345
ENSG00000160818	GPATCH4	3114.164924	1.212648478	5.45E-06
ENSG00000174607	UGT8	7.25897334	1.21257205	0.460832879
ENSG00000157445	CACNA2D3	408.0450306	1.212290199	0.000340888
ENSG00000175550	DRAP1	3460.52548	1.211610942	2.15E-08
ENSG00000143429	LSP1P4	16.67780237	1.210986884	0.265240126
ENSG00000233791	LINC01136	16.61548905	1.210793617	0.203544916
ENSG00000132746	ALDH3B2	1492.160351	1.21032254	3.81E-10
ENSG00000049768	FOXP3	3.277128333	1.210304975	0.653979093
ENSG00000170502	NUDT9	1525.435895	1.210205484	1.26E-10

ENSG00000278784	AL136295.7	50.58780996	1.209220635	0.014560347
ENSG00000133110	POSTN	49.91710134	1.208808732	0.014751961
ENSG00000137936	BCAR3	781.492153	1.208544775	2.54E-08
ENSG00000186132	C2orf76	217.8218771	1.207562018	3.26E-05
ENSG00000169962	TAS1R3	28.34459585	1.207217155	0.065829221
ENSG00000268938	AC005387.1	9.457266055	1.205996998	0.295640236
ENSG00000241878	PISD	2364.140755	1.205937104	5.54E-12
ENSG00000231305	AC112484.1	12.4760602	1.20494808	0.2908107
ENSG00000159792	PSKH1	716.4157438	1.204802542	1.70E-05
ENSG00000276180	HIST1H4I	1083.252577	1.204182206	1.86E-08
ENSG00000136840	ST6GALNAC4	500.8935851	1.203142629	0.001597244
ENSG00000139656	SMIM2	8.592022918	1.202841183	0.302486103
ENSG00000105251	SHD	120.7506715	1.202397851	0.004788401
ENSG00000203724	C1orf53	15.55133254	1.20228728	0.267907409
ENSG00000123009	NME2P1	176.6420618	1.202254645	0.000955017
ENSG00000118518	RNF146	910.3335461	1.201656197	1.29E-08
ENSG00000170919	TPT1-AS1	243.1101432	1.201074125	0.000616414
ENSG00000241627	UBQLN4P1	6.560069555	1.200999648	0.407060081
ENSG00000170855	TRIAP1	4459.622208	1.20062963	1.62E-07
ENSG00000287769	AL353748.3	66.00706639	1.200504972	0.006290801
ENSG00000234546	LNCTAM34A	62.42178463	1.200242115	0.009663487
ENSG00000147872	PLIN2	25095.79183	1.199908522	5.41E-05
ENSG00000260034	LCMT1-AS2	23194.25036	1.199772368	6.78E-08
ENSG00000274015	AL136038.5	11.06897019	1.198495437	0.299284829

ENSG00000078399	HOXA9	21.90415493	1.198472002	0.164875776
ENSG00000113845	TIMMDC1	4988.564309	1.198081155	7.40E-09
ENSG00000236397	DDX11L2	177.3763505	1.197810947	0.010949306
ENSG00000286416	AL442067.3	7.337596275	1.197171822	0.498342514
ENSG00000103510	KAT8	1815.335679	1.196874103	6.29E-08
ENSG00000178104	PDE4DIP	12096.56683	1.196769301	5.72E-06
ENSG00000166507	NDST2	23.29407328	1.196515399	0.079360349
ENSG00000172086	KRCC1	302.865754	1.196414684	0.000130998
ENSG00000006837	CDKL3	17.54494443	1.195847596	0.152774774
ENSG00000277453	AC010271.2	4.017235537	1.19557452	0.58137917
ENSG00000253326	AL606534.4	15.10881494	1.19549118	0.487228814
ENSG00000127324	TSPAN8	20.47878601	1.195110738	0.105117425
ENSG00000169252	ADRB2	4.009452421	1.195066906	0.564147985
ENSG00000123415	SMUG1	2523.179464	1.194937159	4.56E-07
ENSG00000255375	AL078612.2	199.4937509	1.194545274	6.76E-05
ENSG00000174365	SNHG11	201.9423987	1.194127384	0.018823315
ENSG00000177462	OR2T8	9.694185979	1.194037819	0.301102427
ENSG00000164403	SHROOM1	184.3177317	1.193038182	0.000491997
ENSG00000157326	DHRS4	13.9464246	1.192777995	0.216651118
ENSG00000166250	CLMP	7287.194671	1.192703675	1.92E-11
ENSG00000261745	AL512347.1	168.2393175	1.191995033	0.006940519
ENSG00000237594	AP000251.1	12.55062839	1.191903926	0.244136675
ENSG00000204946	ZNF783	252.0309378	1.191254519	0.000216565
ENSG00000213923	CSNK1E	8108.546429	1.190999678	2.62E-09

ENSG00000258725	PRC1-AS1	9.290136566	1.190601206	0.345498131
ENSG00000162542	TMCO4	977.9531378	1.188535078	3.34E-06
ENSG00000124217	MOCS3	636.2362062	1.188344865	3.28E-09
ENSG00000250539	KRT8P33	22.87737509	1.187872615	0.170490619
ENSG00000279227	AC009303.4	7.290478626	1.187469684	0.391934086
ENSG00000152433	ZNF547	46.23375617	1.187469192	0.026335639
ENSG00000135324	MRAP2	38.11280133	1.187292617	0.041820459
ENSG00000139160	ETFBKMT	49.43570839	1.186926914	0.012636318
ENSG00000231826	LINC01819	265.7190607	1.186602841	0.006656965
ENSG00000215187	FAM166B	4.005937747	1.186569488	0.633523779
ENSG00000186230	ZNF749	257.913045	1.186383228	3.42E-06
ENSG00000072818	ACAP1	59.06562042	1.186046123	0.021350681
ENSG00000163704	PRRT3	27.16060092	1.185948553	0.252232127
ENSG00000121281	ADCY7	66.39604038	1.185176973	0.020256538
ENSG00000159363	ATP13A2	3587.705268	1.185075054	0.000364598
ENSG00000130762	ARHGEF16	622.6776321	1.185015041	9.60E-06
ENSG00000006015	REX1BD	936.6427221	1.184699132	7.01E-06
ENSG00000230615	AL139220.2	5.640025156	1.184694722	0.496062541
ENSG00000226913	BSN-DT	9.655966021	1.184417566	0.33468218
ENSG00000139567	ACVRL1	19.23346436	1.184190326	0.210880853
ENSG00000169189	NSMCE1	1249.101414	1.184075067	3.65E-05
ENSG00000129646	QRICH2	58.54762089	1.183419944	0.05298185
ENSG00000260233	SSSCA1-AS1	93.74593954	1.183306512	0.002279965
ENSG00000172830	SSH3	1657.42554	1.182659929	2.24E-08

ENSG00000262903	AC027796.4	29.23955813	1.182471205	0.083846939
ENSG00000249602	AL589765.4	76.28563882	1.182302645	0.017027339
ENSG00000237372	AL606807.1	396.8782554	1.182089343	0.007495179
ENSG00000263753	LINC00667	43.5596281	1.182070446	0.049437779
ENSG00000253392	AC119403.1	5.792336409	1.181262856	0.494415851
ENSG00000135404	CD63	54550.4644	1.181084522	9.76E-10
ENSG00000225975	LINC01534	38.34071286	1.179911825	0.048208163
ENSG00000173614	NMNAT1	310.0560493	1.179889242	0.000118811
ENSG00000247982	LINC00926	9.406366656	1.179888482	0.332748714
ENSG00000160209	PDXK	4284.67574	1.179458187	2.21E-10
ENSG00000185798	WDR53	756.007778	1.179384644	2.56E-06
ENSG00000249476	AC008467.1	9.404075369	1.179051945	0.432705472
ENSG00000064601	CTSA	6933.837656	1.178496225	2.24E-08
ENSG00000267750	RUNDC3A-AS1	21.97952216	1.178219652	0.158498449
ENSG00000162231	NXF1	6034.385905	1.17814981	0.000166348
ENSG00000161277	THAP8	102.113505	1.177529839	0.00085844
ENSG00000213015	ZNF580	279.401722	1.176925159	0.000347673
ENSG00000077942	FBLN1	30790.33191	1.176243862	5.67E-07
ENSG00000176973	FAM89B	77.61619199	1.176125951	0.02234411
ENSG00000287016	AC010996.1	5.663498778	1.175531591	0.5158025
ENSG00000185670	ZBTB3	150.1258543	1.17539128	0.000338
ENSG00000076864	RAP1GAP	5746.919241	1.175345518	0.004038011
ENSG00000269439	AC010618.3	25.06529971	1.175258217	0.081580316
ENSG00000279689	AC022400.7	7.367520361	1.175068162	0.431897705

ENSG00000116819	TFAP2E	8.16375404	1.174877291	0.414035611
ENSG00000005471	ABCB4	4.404838839	1.174678591	0.682101295
ENSG00000124786	SLC35B3	537.7576795	1.174677358	1.03E-05
ENSG00000128228	SDF2L1	4419.317669	1.17456415	1.46E-11
ENSG00000180346	TIGD2	3018.372294	1.174275889	5.68E-07
ENSG00000186409	CCDC30	18.0463582	1.174161243	0.247489989
ENSG00000138080	EMILIN1	21.78377805	1.174084989	0.098410255
ENSG00000093010	COMT	3126.780391	1.17376098	3.26E-05
ENSG00000150756	ATPSCKMT	205.1036473	1.173670807	6.21E-05
ENSG00000213139	CRYGS	24.10106997	1.172776427	0.114584275
ENSG00000287608	AC022137.4	5.587547391	1.17276562	0.565997974
ENSG00000145022	TCTA	805.6637551	1.17264869	4.71E-07
ENSG00000273777	CEACAM20	20.50556753	1.171716026	0.180449523
ENSG00000171806	METTL18	160.499511	1.171692961	0.001431709
ENSG00000130222	GADD45G	18995.12399	1.170960498	3.04E-07
ENSG00000279670	AL359922.3	30.22035096	1.170607377	0.263239559
ENSG00000139908	TSSK4	26.03128575	1.170225822	0.130313558
ENSG00000287125	AC018695.9	62.03940153	1.169813249	0.018435554
ENSG00000117480	FAAH	178.0759887	1.169689441	0.00129643
ENSG00000235217	TSPY26P	5.590944105	1.169662666	0.468869394
ENSG00000251526	LINC02435	10.84737425	1.169559103	0.320229152
ENSG00000118777	ABCG2	34189.04321	1.16818962	5.65E-06
ENSG00000224985	AL590714.1	37.61715934	1.168172189	0.037270009
ENSG00000068366	ACSL4	11204.08508	1.16798491	5.50E-05

ENSG00000270170	NCBP2AS2	412.1551106	1.167924512	1.32E-05
ENSG00000108384	RAD51C	3704.06419	1.167008671	2.74E-07
ENSG00000152601	MBNL1	697.2522523	1.166330106	2.95E-07
ENSG00000133477	FAM83F	10942.76735	1.166297081	7.07E-08
ENSG00000254682	AP002387.2	670.7323158	1.165947453	3.69E-05
ENSG00000135636	DYSF	37769.11685	1.165795847	3.74E-08
ENSG00000100399	CHADL	8.484286957	1.16571746	0.428318529
ENSG00000109339	MAPK10	27.3151024	1.165646744	0.08875037
ENSG00000243679	AC018638.5	89.66883	1.165476326	0.015118694
ENSG00000140400	MAN2C1	2161.224906	1.165299197	6.35E-05
ENSG00000204922	UQCC3	156.3554838	1.165196455	0.001566667
ENSG00000127561	SYNGR3	255.3688845	1.164901006	0.001775659
ENSG00000143612	C1orf43	5322.544641	1.16449635	1.93E-10
ENSG00000148090	AUH	1088.613463	1.164351945	3.76E-05
ENSG00000105829	BET1	1225.237437	1.16370025	1.04E-06
ENSG00000176022	B3GALT6	306.7177781	1.162209482	6.00E-05
ENSG00000112212	TSPO2	16.3060375	1.161213485	0.22021029
ENSG00000197982	C1orf122	911.4021527	1.160686456	2.34E-06
ENSG00000286406	AC138776.1	51.01998882	1.160648921	0.021692064
ENSG00000144644	GADL1	9.916559117	1.160055245	0.411034327
ENSG00000250131	AC078881.1	658.688344	1.160017715	0.000316835
ENSG00000129194	SOX15	481.6304766	1.159414171	0.001194064
ENSG00000133835	HSD17B4	8261.009863	1.158811587	2.01E-07
ENSG00000276390	AC004241.3	14.61446314	1.158490535	0.283649208

ENSG00000119699	TGFB3	58.77077231	1.158404701	0.039087366
ENSG00000153443	UBALD1	2952.203516	1.158355985	5.96E-09
ENSG00000275764	AC092747.4	90.11693462	1.158335606	0.003643366
ENSG00000278133	AC135050.6	233.8591724	1.158289792	1.32E-05
ENSG00000068438	FTSJ1	2782.482094	1.157545022	7.42E-10
ENSG00000273015	AC008124.1	180.4384979	1.15740426	0.001378782
ENSG00000166562	SEC11C	5253.483728	1.157217611	7.01E-11
ENSG00000175820	CCDC168	47.92138792	1.156284643	0.168471015
ENSG00000260793	AC003102.1	32.03043405	1.155512332	0.106696908
ENSG00000196998	WDR45	2233.690854	1.155476415	3.78E-11
ENSG00000240891	PLCXD2	1838.719036	1.155344611	0.000127858
ENSG00000090975	PITPNM2	3278.623273	1.155335148	2.51E-06
ENSG00000189221	MAOA	3471.381846	1.155274009	0.000273167
ENSG00000211584	SLC48A1	391.2036123	1.154766244	0.000111222
ENSG00000173486	FKBP2	66.8430625	1.153290187	0.011876504
ENSG00000197467	COL13A1	8.30888927	1.153229073	0.352664177
ENSG00000182154	MRPL41	1021.788578	1.152815834	6.43E-05
ENSG00000279208	CR381653.2	38.49364892	1.152350874	0.097537308
ENSG00000270177	AC104109.2	10.57560624	1.151928698	0.418628528
ENSG00000142621	FHAD1	11.83913074	1.151722119	0.385527198
ENSG00000203814	HIST2H2BF	32.29013996	1.151183488	0.060093543
ENSG00000174851	YIF1A	4596.440928	1.150520732	7.11E-07
ENSG00000273576	AC009283.1	30.76923022	1.150154436	0.052690008
ENSG00000115204	MPV17	3762.570474	1.149265175	8.39E-08

ENSG00000136235	GPNMB	42.112492	1.14904351	0.028165627
ENSG00000198003	CCDC151	7.109932619	1.148151789	0.55101387
ENSG00000086730	LAT2	41.44549046	1.147917647	0.077756569
ENSG00000103269	RHBDL1	94.8637058	1.147888086	0.009970075
ENSG00000236618	PITPNA-AS1	60.15883849	1.147847822	0.008879049
ENSG00000087088	BAX	3996.44391	1.147585526	4.87E-10
ENSG00000148362	PAXX	3888.051518	1.147334822	1.23E-08
ENSG00000178821	TMEM52	210.0438103	1.147127757	0.007439949
ENSG00000234684	SDCBP2-AS1	120.2303294	1.146836155	0.000428506
ENSG00000166189	HPS6	676.2588555	1.146773422	4.19E-05
ENSG00000235043	TECRP1	56.57759973	1.146671737	0.007896876
ENSG00000197903	HIST1H2BK	7039.34027	1.146429427	1.13E-08
ENSG00000266265	KLF14	4.684731632	1.14617307	0.630941993
ENSG00000212907	MT-ND4L	45291.7526	1.146120137	2.62E-05
ENSG00000196810	CTBP1-DT	283.7719289	1.146044548	2.42E-06
ENSG00000140835	CHST4	24.85226403	1.146013056	0.222646517
ENSG00000179111	HES7	5.658817696	1.145891895	0.55336583
ENSG00000228709	LINC02575	38.55845433	1.143935944	0.06686669
ENSG00000183134	PTGDR2	11.73927547	1.143900694	0.345527431
ENSG00000157240	FZD1	101.1659857	1.143696245	0.001104376
ENSG00000127418	FGFRL1	400.0912194	1.14355374	0.000578729
ENSG00000233223	AC016876.1	122.6881127	1.143309456	0.001964904
ENSG00000186834	HEXIM1	28264.72589	1.14302014	7.89E-08
ENSG00000223799	IL10RB-DT	124.7247794	1.140984492	0.00588317

ENSG00000249007	AL691482.3	17.24412675	1.140627175	0.210651756
ENSG00000262136	AC092115.3	12.6681053	1.140113993	0.226350444
ENSG00000167740	CYB5D2	649.7567607	1.140023999	1.35E-06
ENSG00000167705	RILP	628.0214135	1.139780619	0.001721386
ENSG00000223478	AL441992.1	324.5490725	1.139635812	2.99E-06
ENSG00000199753	SNORD104	29.72450298	1.139615762	0.17277492
ENSG00000259994	AL353796.1	11.76311283	1.139176089	0.376690761
ENSG00000120211	INSL4	47544.83085	1.139112812	3.94E-07
ENSG00000070601	FRMPD1	119.1118804	1.138343606	0.008874901
ENSG00000267454	ZNF582-AS1	31.4697408	1.137797531	0.097469381
ENSG00000277443	MARCKS	169.8908329	1.137175018	0.010690241
ENSG00000280033	AC116407.4	8.800574435	1.13699701	0.326675593
ENSG00000279529	AC008764.8	16.25299969	1.136988393	0.22591887
ENSG00000223850	MYCNUT	943.5333464	1.136916548	7.18E-07
ENSG00000171443	ZNF524	548.5712016	1.135942989	0.002596976
ENSG00000137207	YIPF3	5126.136865	1.13561599	1.88E-10
ENSG00000144045	DQX1	156.8235427	1.134256825	0.009040907
ENSG00000177688	SUMO4	13.50066736	1.133628016	0.314107746
ENSG00000276168	RN7SL1	382.6158659	1.133405183	0.004224265
ENSG00000255867	DENND5B-AS1	28.57893679	1.133310977	0.071651311
ENSG00000170476	MZB1	68.97167753	1.13246309	0.115085911
ENSG00000188505	NCCRP1	191.4128567	1.131904386	0.004902732
ENSG00000187185	AC092118.1	7.745503246	1.131798705	0.509209601
ENSG00000233325	MIPEPP3	10.74767057	1.130164279	0.29691085

ENSG00000167578	RAB4B	12.89722702	1.129099522	0.353678476
ENSG00000177990	DPY19L2	107.2188243	1.128905981	0.005569676
ENSG00000260086	AC007611.1	27.16255081	1.128769559	0.165582374
ENSG00000141655	TNFRSF11A	12.58018456	1.128354769	0.30109208
ENSG00000263916	AC100778.2	4.390362341	1.127892898	0.633278692
ENSG00000133317	LGALS12	68.46059226	1.127011476	0.108347861
ENSG00000072041	SLC6A15	205.3101875	1.126720787	0.000888081
ENSG00000261783	AC009054.2	4.820257257	1.126444771	0.585391954
ENSG00000236255	AC009404.1	42.76575414	1.126089075	0.030934559
ENSG00000233871	DLG5-AS1	53.20680481	1.125760649	0.015383316
ENSG00000144671	SLC22A14	3.524904575	1.125718378	0.621634367
ENSG00000236017	ASMTL-AS1	71.00426053	1.125438721	0.059966133
ENSG00000237339	LINC01502	4.332560319	1.125404809	0.58001178
ENSG00000235008	AL023775.1	4.918353061	1.125208444	0.68549902
ENSG00000099330	OCEL1	2307.466567	1.125142871	0.00078194
ENSG00000246763	RGMB-AS1	7.849124798	1.124309065	0.385235682
ENSG00000043039	BARX2	18.42383914	1.124295164	0.241692297
ENSG00000087074	PPP1R15A	7172.987166	1.124253554	2.40E-10
ENSG00000103254	ANTKMT	302.5196001	1.124002075	5.10E-05
ENSG00000060718	COL11A1	6.75196787	1.123757494	0.461504487
ENSG00000164404	GDF9	28.31388886	1.123663013	0.268996821
ENSG00000227540	AC016394.1	31.47356045	1.123614654	0.060146511
ENSG00000074317	SNCB	6.284752941	1.12327266	0.452318153
ENSG00000227630	LINC01132	6.191258782	1.123077659	0.517414916

ENSG00000173653	RCE1	864.6378451	1.122429698	4.23E-08
ENSG00000178882	RFLNA	6.399367298	1.121579295	0.480070022
ENSG00000197837	HIST4H4	30.11739461	1.121207269	0.11594557
ENSG00000206573	THUMPD3-AS1	459.6080053	1.12067132	0.000177811
ENSG00000161912	ADCY10P1	63.45258953	1.120217253	0.047601637
ENSG00000154102	C16orf74	563.6911362	1.120157584	0.000426557
ENSG00000074276	CDHR2	4.68665634	1.119734094	0.540222653
ENSG00000270720	AC104785.1	9.078572891	1.119478005	0.375270296
ENSG00000181378	CFAP65	8.370599469	1.118570867	0.44362891
ENSG00000279539	AC006486.2	46.30805115	1.118398026	0.035292667
ENSG00000217416	ISCA1P1	6.194655496	1.117467053	0.517035255
ENSG00000261461	UBE2MP1	16.60468169	1.117108018	0.243737786
ENSG00000285410	GABPB1-IT1	71.35052154	1.117028489	0.015560709
ENSG00000168899	VAMP5	32.34465621	1.116855944	0.082602295
ENSG00000151093	OXSM	401.6371061	1.1164634	0.000254827
ENSG00000188315	C3orf62	125.8779861	1.116230654	0.001094181
ENSG00000250999	AC136604.3	8.230115382	1.11619535	0.367672345
ENSG00000175611	LINC00476	54.68222394	1.115702247	0.043159897
ENSG00000146426	TIAM2	46.36523926	1.115676705	0.057990663
ENSG00000261360	AC010491.1	6.945817029	1.115324002	0.545014261
ENSG00000108352	RAPGEFL1	214.806895	1.115051669	0.000135813
ENSG00000271662	AC233280.2	5.962218643	1.115027178	0.492545914
ENSG00000107290	SETX	1504.617311	1.114492387	1.12E-07
ENSG00000127580	WDR24	912.2601658	1.114372823	3.86E-07

ENSG00000159166	LAD1	1611.188954	1.114362535	1.64E-07
ENSG00000103546	SLC6A2	113.6296653	1.113761771	0.039310913
ENSG00000139428	MMAB	645.4007949	1.113441425	1.71E-05
ENSG00000239900	ADSL	43.31540939	1.112655883	0.047802639
ENSG00000094914	AAAS	1805.728714	1.112572518	1.54E-05
ENSG00000181817	LSM10	2212.945478	1.112355786	0.000441918
ENSG00000272092	AC087623.2	9.355346963	1.112288853	0.334180468
ENSG00000172361	CFAP53	10.91978096	1.111960238	0.338097771
ENSG00000125434	SLC25A35	634.5580803	1.111759907	0.003809623
ENSG00000180425	C11orf71	98.0096401	1.111599861	0.020505038
ENSG00000169718	DUS1L	4049.620601	1.111355266	4.72E-08
ENSG00000178695	KCTD12	767.8560478	1.111074193	4.20E-05
ENSG00000287411	AL031259.1	9.46668888	1.110755509	0.331201394
ENSG00000107159	CA9	8.153578182	1.110554927	0.449687687
ENSG00000108176	DNAJC12	9.375486621	1.109337703	0.413786048
ENSG00000112419	PHACTR2	2046.459357	1.109257931	2.86E-06
ENSG00000225806	AL121917.1	23.41610428	1.109033831	0.11703169
ENSG00000135821	GLUL	9377.070355	1.108493862	0.001487902
ENSG00000136444	RSAD1	1359.19605	1.108432045	2.70E-07
ENSG00000261884	AC040162.1	10.70503937	1.108372257	0.391316318
ENSG00000236810	ELOA-AS1	64.77240633	1.10828411	0.027942657
ENSG00000279432	AC015799.1	6.220105658	1.108126801	0.435603861
ENSG00000124226	RNF114	3938.351206	1.10777909	4.47E-11
ENSG00000155096	AZIN1	14217.00969	1.107359975	1.47E-06

ENSG00000183617	MRPL54	1454.513246	1.1069391	7.74E-07
ENSG00000151778	SERP2	3.977549887	1.106892286	0.627148987
ENSG00000197956	S100A6	962.783416	1.106351847	1.71E-05
ENSG00000126005	MMP24OS	371.8683224	1.105928569	2.64E-05
ENSG00000214999	AC129492.1	12.57600402	1.104973694	0.255486437
ENSG00000127838	PNKD	1961.382858	1.104899217	0.000819882
ENSG00000178719	GRINA	6259.092088	1.104284544	7.06E-06
ENSG00000261373	VPS9D1-AS1	105.7784406	1.104160116	0.000933937
ENSG00000224420	ADM5	19.49351324	1.104058805	0.208497689
ENSG00000118804	STBD1	129.5811433	1.103516745	0.002875474
ENSG00000280351	AC127496.7	44.76021601	1.103482725	0.095992064
ENSG00000204323	SMIM5	357.3844528	1.103189061	0.01321751
ENSG00000244055	AC007566.1	49.12116368	1.102970629	0.037178542
ENSG00000261227	AC140912.1	53.68171956	1.102879334	0.02646128
ENSG00000173334	TRIB1	6918.159605	1.102631762	2.44E-05
ENSG00000080493	SLC4A4	51.72674963	1.102206607	0.226086247
ENSG00000147127	RAB41	3.81317261	1.101500379	0.637661491
ENSG00000178057	NDUFAF3	898.9051593	1.100532366	3.31E-05
ENSG00000121716	PILRB	671.3339825	1.099307389	0.000472131
ENSG00000244627	TPTEP2	30.32131942	1.099266066	0.109108938
ENSG00000111291	GPRC5D	168.4526085	1.098909707	0.002318868
ENSG00000213339	QTRT1	843.0920765	1.097880739	1.34E-07
ENSG00000260260	SNHG19	145.5175453	1.096504584	0.005996818
ENSG00000184441	AP001062.1	17.78788379	1.096440546	0.257221134

ENSG00000181649	PHLDA2	1716.908055	1.095881561	0.000141974
ENSG00000124787	RPP40	481.767516	1.095713112	2.49E-05
ENSG00000149743	TRPT1	1232.026198	1.095633668	3.63E-05
ENSG00000275131	AC241952.1	453.6687864	1.095500854	1.19E-05
ENSG00000261821	AC090826.1	236.7316656	1.095457536	0.000688604
ENSG00000233554	B4GALT1-AS1	24.16022193	1.095324632	0.193186281
ENSG00000235314	LINC00957	31.83000227	1.095171284	0.088754045
ENSG00000204227	RING1	2274.989749	1.094253039	1.10E-06
ENSG00000175294	CATSPER1	8.569751594	1.094207997	0.463842606
ENSG00000188771	PLET1	5.394079095	1.093685848	0.571961338
ENSG00000271646	AC099343.3	7.068102856	1.093592207	0.530506639
ENSG00000253671	AC027117.1	110.1214226	1.093223418	0.002317834
ENSG00000164620	RELL2	162.4527882	1.093181196	0.000540956
ENSG00000168994	PXDC1	10561.39805	1.093167682	0.00012676
ENSG00000158552	ZFAND2B	1437.534685	1.093146789	5.66E-08
ENSG00000155093	PTPRN2	6.976208353	1.092957225	0.415762634
ENSG00000137714	FDX1	21498.18913	1.092901426	6.67E-05
ENSG00000145723	GIN1	261.153407	1.092599661	0.000158043
ENSG00000182810	DDX28	1740.937902	1.09178577	2.74E-08
ENSG00000163873	GRIK3	3.798468958	1.091108484	0.678322449
ENSG00000231185	SPRY4-AS1	30.16114296	1.090964813	0.235341762
ENSG00000224536	AC096677.1	18.8904607	1.089867526	0.22669775
ENSG00000171631	P2RY6	3143.767095	1.089853749	0.001391203
ENSG00000209482	SNORD83A	17.76649558	1.089850281	0.216613924

ENSG00000134873	CLDN10	7.703283461	1.089382709	0.468523239
ENSG00000204685	STARD7-AS1	80.56022316	1.089329569	0.008145495
ENSG00000225032	AL162586.1	106.7627299	1.089283272	0.017215508
ENSG00000198695	MT-ND6	18885.38732	1.089221607	0.000253476
ENSG00000198464	ZNF480	1068.558301	1.087442964	5.89E-08
ENSG00000072849	DERL2	2381.22723	1.086861365	6.43E-09
ENSG00000149634	SPATA25	6.13655818	1.086422985	0.471782778
ENSG00000162650	ATXN7L2	211.288691	1.086014824	0.000346504
ENSG00000164488	DACT2	2264.966843	1.085703999	4.20E-07
ENSG00000197142	ACSL5	22.95651746	1.085492417	0.230768341
ENSG00000108773	KAT2A	1581.687641	1.085180433	5.11E-06
ENSG00000246889	AP000487.1	8.752626405	1.084900124	0.479177153
ENSG00000147573	TRIM55	213.3675635	1.08473567	0.009092103
ENSG00000178188	SH2B1	2359.215841	1.084561879	8.76E-10
ENSG00000104856	RELB	136.9942291	1.084487027	0.004355728
ENSG00000185482	STAC3	18.30176419	1.084438319	0.238227819
ENSG00000175206	NPPA	10.89878026	1.084149902	0.397235937
ENSG00000272468	AL021807.1	28.70588325	1.083602751	0.209296155
ENSG00000235776	AC000089.1	3.085045065	1.083528018	0.728533904
ENSG00000141179	PCTP	3704.410563	1.083258267	1.28E-06
ENSG00000119878	CRIPT	898.4745439	1.083007125	1.54E-06
ENSG00000260448	LCMT1-AS1	32.28693092	1.082999552	0.115749896
ENSG00000169583	CLIC3	5671.655843	1.082033905	0.000580864
ENSG00000173276	ZBTB21	1463.787568	1.081937937	4.59E-05

ENSG00000179387	ELMOD2	735.473261	1.081688515	0.000750089
ENSG00000070610	GBA2	9115.722801	1.081375807	2.52E-06
ENSG00000139352	ASCL1	25.91404556	1.081164121	0.107375827
ENSG00000162194	LBHD1	65.58290951	1.080430996	0.010939199
ENSG00000268471	MIR4453HG	44.55829262	1.080336359	0.080748938
ENSG00000267080	ASB16-AS1	462.8670027	1.080297433	0.00060583
ENSG00000205572	SERF1B	12.43499209	1.079775367	0.320304076
ENSG00000160191	PDE9A	5.400719417	1.079730544	0.537750628
ENSG00000167378	IRGQ	1237.824611	1.079545876	1.02E-07
ENSG00000131188	PRR7	28.00769404	1.078986475	0.102861911
ENSG00000213958	KRT18P29	10.85541543	1.078186682	0.347205886
ENSG00000173013	CCDC96	9.011660087	1.07794864	0.427112865
ENSG00000279331	RBM12B-AS1	9.252184428	1.077873513	0.332932225
ENSG00000167302	TEPSIN	406.7452339	1.077671167	1.10E-06
ENSG00000131748	STARD3	3650.570707	1.077197672	6.30E-09
ENSG00000228300	FAM174C	1793.056798	1.07676221	2.04E-07
ENSG00000072952	MRVI1	306.2988979	1.076163758	4.48E-05
ENSG00000157916	RER1	10864.8026	1.075729485	1.51E-06
ENSG00000205808	PLPP6	328.2756523	1.075593445	0.00055132
ENSG00000236601	AL732372.1	116.8253127	1.075041678	0.06780168
ENSG00000235513	AL035681.1	7.048377991	1.073877357	0.465589571
ENSG00000182197	EXT1	3253.889332	1.07360039	0.000134748
ENSG00000135632	SMYD5	1945.406268	1.073598424	5.18E-08
ENSG00000283196	AC006453.2	260.3250086	1.073419575	0.000193596

ENSG00000275111	ZNF2	178.1951543	1.073398474	0.000744347
ENSG00000214087	ARL16	662.557239	1.07252497	0.000476903
ENSG00000103248	MTHFSD	379.2542918	1.071109769	6.84E-05
ENSG00000088832	FKBP1A	17800.31384	1.071024262	1.20E-07
ENSG00000251166	OR7E163P	5.612220162	1.070498249	0.696022494
ENSG00000021645	NRXN3	56.3966377	1.070448299	0.026102584
ENSG00000144810	COL8A1	14.02673544	1.070438521	0.278632506
ENSG00000158796	DEDD	1520.053694	1.070412969	1.33E-08
ENSG00000279513	AL157902.2	14.40935634	1.069407897	0.319231397
ENSG00000130590	SAMD10	187.074447	1.069087637	0.000757573
ENSG00000287080	HIST1H3C	40.94811204	1.069042188	0.170971924
ENSG00000274605	PCCA-DT	319.8193636	1.068827985	0.000119785
ENSG00000228221	LINC00578	5.374416981	1.068509485	0.592297468
ENSG00000144824	PHLDB2	11439.62781	1.068447386	2.06E-05
ENSG00000204991	SPIRE2	11543.06588	1.068100786	2.09E-06
ENSG00000257084	MIR200CHG	28.76660814	1.068000983	0.148226398
ENSG00000253982	AC100810.1	148.453884	1.067738475	0.012376183
ENSG00000104915	STX10	2982.184427	1.067546906	4.99E-09
ENSG00000170469	SPATA24	49.91655146	1.067516147	0.054730486
ENSG00000261235	AC092142.1	6.55291169	1.066796929	0.488056787
ENSG00000135835	KIAA1614	99.10131928	1.066770846	0.013169445
ENSG00000149243	KLHL35	27.71535385	1.066636087	0.140850507
ENSG00000076555	ACACB	763.092548	1.066189316	0.002283226
ENSG00000181038	METTL23	507.6409948	1.066140167	0.000250671

ENSG00000279443	AL513497.1	45.21820287	1.064644614	0.273609706
ENSG00000166762	CATSPER2	72.10701142	1.064223324	0.008876146
ENSG00000146281	PM20D2	64.26315385	1.064107324	0.028032842
ENSG00000197696	NMB	78.30115516	1.063692878	0.012978733
ENSG00000242125	SNHG3	2286.598715	1.063610812	4.04E-07
ENSG00000114650	SCAP	8263.625151	1.061162599	7.11E-05
ENSG00000169245	CXCL10	15.68832045	1.060636995	0.414207629
ENSG00000250208	FZD10-AS1	149.0597779	1.0604645	0.001896513
ENSG00000144021	CIAO1	5663.267331	1.05998852	2.19E-10
ENSG00000141527	CARD14	227.4471893	1.059665922	0.055355327
ENSG00000081692	JMJD4	92.92014494	1.059381969	0.04045604
ENSG00000222612	RNU2-52P	36.30101211	1.059330085	0.060134377
ENSG00000204983	PRSS1	62.97919224	1.059196697	0.027788913
ENSG00000141994	DUS3L	1321.718609	1.05913484	5.01E-08
ENSG00000183153	GJD3	39.27279835	1.058568049	0.084711768
ENSG00000125843	AP5S1	247.7786068	1.058486617	0.000148555
ENSG00000260317	AC009812.4	212.3737511	1.058044941	0.003639032
ENSG00000092969	TGFB2	16.20027698	1.057906861	0.262466384
ENSG00000140398	NEIL1	195.333073	1.05778354	0.001899441
ENSG00000256537	SMIM10L1	341.3343607	1.057471881	5.73E-06
ENSG00000130544	ZNF557	335.951529	1.057192801	0.000435633
ENSG00000111696	NT5DC3	1084.880941	1.05710612	4.30E-07
ENSG00000107954	NEURL1	47179.0036	1.056819557	3.01E-06
ENSG00000270038	AL133467.4	10.34541681	1.056731982	0.363463088

ENSG00000169955	ZNF747	41.97996633	1.05564154	0.092817901
ENSG00000227695	DNMBP-AS1	12.38045557	1.054967105	0.496931392
ENSG00000168928	CTRB2	19.91880449	1.054302035	0.246246444
ENSG00000183741	CBX6	323.3486549	1.054293646	0.001021715
ENSG00000243339	RN7SL738P	9.575077696	1.054013339	0.350437434
ENSG00000237923	LINC02570	9.020327062	1.053629775	0.522477014
ENSG00000254622	NAV2-AS4	240.0202233	1.053515408	0.067420444
ENSG00000174885	NLRP6	6.434111095	1.05349932	0.589579827
ENSG00000247400	DNAJC3-DT	86.44071883	1.053438855	0.004182708
ENSG00000187867	PALM3	1515.340091	1.053162803	1.86E-08
ENSG00000126062	TMEM115	2329.33649	1.053051928	1.09E-09
ENSG00000122033	MTIF3	981.9682986	1.053016128	2.55E-05
ENSG00000127334	DYRK2	3553.571792	1.052788643	0.000189566
ENSG00000203879	GDI1	8620.821171	1.051958493	1.07E-07
ENSG00000250303	LINC02762	14.31489072	1.051801454	0.359351395
ENSG00000286652	AL021918.5	7.338113257	1.051722207	0.533117451
ENSG00000197093	GAL3ST4	19.53413698	1.051487894	0.201726309
ENSG00000198064	NPIPB13	13.18210197	1.051473259	0.385774265
ENSG00000154144	TBRG1	1165.325392	1.050851539	5.89E-09
ENSG00000070214	SLC44A1	3176.119693	1.050618291	0.000297668
ENSG00000196453	ZNF777	1343.760519	1.050207828	1.74E-07
ENSG00000263050	AC090617.5	18.50972763	1.049895276	0.277270179
ENSG00000108242	CYP2C18	751.9815922	1.048403324	1.74E-05
ENSG00000177707	NECTIN3	14157.58171	1.048265713	4.23E-07

ENSG00000131746	TNS4	225.8162309	1.048242324	0.043676291
ENSG00000174586	ZNF497	23.57763341	1.048048191	0.137544091
ENSG00000285847	AL713852.1	188.4069828	1.04796843	0.001888124
ENSG00000225077	LINC00337	133.1272713	1.047535439	0.003518956
ENSG00000230724	LINC01001	31.46482875	1.047424593	0.130371131
ENSG00000099284	H2AFY2	6.949249815	1.047032274	0.481643658
ENSG00000168569	TMEM223	409.7864244	1.046788844	0.000134435
ENSG00000285230	RALY-AS1	153.9355105	1.046688246	0.003097747
ENSG00000138166	DUSP5	18261.54283	1.046627445	1.16E-06
ENSG00000171953	ATPAF2	639.668686	1.046025613	8.78E-06
ENSG00000279672	AP006621.5	51.41069326	1.046023783	0.037578136
ENSG00000139546	TARBP2	1676.202763	1.045915525	7.57E-08
ENSG00000166396	SERPINB7	58.01811868	1.045843202	0.118954151
ENSG00000274252	GGTLC3	4.34043533	1.045220466	0.677442773
ENSG00000271151	AC016737.1	9.139199486	1.044868845	0.439218641
ENSG00000172922	RNASEH2C	3037.345219	1.0443275	7.09E-08
ENSG00000287331	AC106045.1	10.9044101	1.043858556	0.358465235
ENSG00000147003	CLTRN	16.16940926	1.043145581	0.258922701
ENSG00000172878	METAP1D	162.604773	1.042896031	0.001273122
ENSG00000150773	PIH1D2	16.52190501	1.042044138	0.281723616
ENSG00000215271	HOMEZ	419.8938437	1.041844219	4.20E-06
ENSG00000163389	POGLUT1	326.1941295	1.041834227	0.000664139
ENSG00000157087	ATP2B2	3.84807461	1.041562922	0.686460615
ENSG00000134070	IRAK2	350.578242	1.041063225	9.67E-05

ENSG00000065717	TLE2	2279.05944	1.040997884	0.004220413
ENSG00000276517	AL133243.3	12.9220077	1.039972372	0.310613594
ENSG00000158428	CATIP	10.08136884	1.039772668	0.388437009
ENSG00000203993	ARRDC1-AS1	642.8973426	1.039673787	0.000892337
ENSG00000232888	RPS11P5	17.07884804	1.03956791	0.271626666
ENSG00000222004	LINC02860	17.49222379	1.03927333	0.238303435
ENSG00000214357	NEURL1B	55.33372192	1.039076761	0.034686173
ENSG00000143994	ABHD1	20.12484848	1.038916718	0.226519218
ENSG00000196187	TMEM63A	2780.15427	1.03867674	1.13E-06
ENSG00000143479	DYRK3	7.724871823	1.03799093	0.541122646
ENSG00000185532	PRKG1	16.32707869	1.03798204	0.262577523
ENSG00000134323	MYCN	7713.661073	1.037753269	1.08E-08
ENSG00000137441	FGFBP2	80.01416138	1.037571674	0.009433339
ENSG00000141098	GFOD2	1604.461898	1.03703076	8.91E-07
ENSG00000023839	ABCC2	480.6670179	1.036877385	3.28E-05
ENSG00000130477	UNC13A	21.2939322	1.036691441	0.161375182
ENSG00000163463	KRTCAP2	56.0968121	1.036465504	0.061932751
ENSG00000237379	CBX1P3	6.741117071	1.036445485	0.461378935
ENSG00000287569	AL078587.2	20.34262475	1.036004203	0.179736505
ENSG00000188735	TMEM120B	1273.059528	1.035994842	0.000889883
ENSG00000183036	PCP4	62.65828207	1.035935182	0.053779223
ENSG00000179943	FIZ1	279.4317576	1.035708384	0.000377634
ENSG00000230102	LINC02028	12.72323589	1.034892072	0.378232157
ENSG00000153094	BCL2L11	430.4197493	1.034889434	0.004814464

ENSG00000169660	HEXD	209.5268396	1.034363725	0.000342274
ENSG00000119686	FLVCR2	6319.100255	1.033965575	1.54E-05
ENSG00000172269	DPAGT1	3921.387487	1.033484924	2.16E-06
ENSG00000133316	WDR74	2654.886687	1.033057882	5.72E-06
ENSG00000169093	ASMTL	1226.227967	1.032412971	0.001505526
ENSG00000166589	CDH16	6.253555719	1.031916591	0.659784647
ENSG00000099797	TECR	5873.049801	1.031739766	4.43E-07
ENSG00000114698	PLSCR4	25.83581564	1.030917612	0.151181751
ENSG00000075790	BCAP29	1636.624232	1.030910473	8.33E-05
ENSG00000269038	AP001462.1	7.661987065	1.030787052	0.47981093
ENSG00000168237	GLYCTK	188.1736235	1.030662382	0.000518211
ENSG00000183822	NCF4-AS1	389.7041105	1.030532788	0.001958076
ENSG00000179967	PPP1R14BP3	38.25889614	1.030482606	0.210801625
ENSG00000212123	PRR22	29.26215871	1.030130739	0.151063248
ENSG00000231084	RPL22P24	15.0739945	1.030053728	0.378842126
ENSG00000143553	SNAPIN	971.1407368	1.029790783	7.00E-06
ENSG00000267523	AC008735.2	47.45746991	1.029121494	0.052125824
ENSG00000119574	ZBTB45	630.7801858	1.028736463	1.53E-07
ENSG00000104043	ATP8B4	39.88677513	1.02868845	0.082610489
ENSG00000180543	TSPYL5	12.19265738	1.028155098	0.344986607
ENSG00000228203	RNF144A-AS1	19.11523978	1.027971186	0.372057004
ENSG00000078401	EDN1	12.65880141	1.027843847	0.36964075
ENSG00000092020	PPP2R3C	426.0529467	1.02707634	1.22E-06
ENSG00000230358	SPDYE21P	9.563703233	1.026810457	0.451478294

ENSG00000271888	AL136162.1	20.79159424	1.025977956	0.260688477
ENSG00000184281	TSSC4	2245.778632	1.025851068	5.46E-06
ENSG00000278598	MIR6775	6.43865968	1.025691961	0.470369588
ENSG00000274925	ZKSCAN2-DT	30.49589016	1.025491689	0.299156596
ENSG00000163909	HEYL	88.81333198	1.024735456	0.229402996
ENSG00000007520	TSR3	1324.808188	1.024485853	3.55E-08
ENSG00000237633	AC104623.1	7.903265172	1.024295262	0.515010698
ENSG00000165775	FUNDC2	1407.791212	1.023898098	1.57E-06
ENSG00000225648	SBDSP1	1031.40001	1.02247967	0.000491911
ENSG00000154764	WNT7A	2446.323241	1.022445105	0.00122505
ENSG00000227741	AL121987.2	3.866542099	1.022430145	0.707604947
ENSG00000236830	CBR3-AS1	86.90682598	1.021235443	0.039802322
ENSG00000175470	PPP2R2D	1735.033377	1.021166142	4.81E-08
ENSG00000126790	L3HYPDH	84.31017153	1.021148737	0.05298185
ENSG00000171843	MLLT3	81.97111602	1.021097979	0.055190024
ENSG00000121931	LRIF1	1348.661965	1.02071941	1.50E-05
ENSG00000260276	AC022167.2	67.84945412	1.020421296	0.016928826
ENSG00000106546	AHR	515.8104596	1.01999003	0.000579252
ENSG00000126456	IRF3	3614.281746	1.019615786	1.35E-06
ENSG00000106638	TBL2	2719.086494	1.019494418	5.96E-05
ENSG00000267493	CIRBP-AS1	21.89772456	1.01932741	0.204203613
ENSG00000174151	CYB561D1	370.2664873	1.019225322	0.000281238
ENSG00000234028	EIF2AK3-DT	37.9403959	1.01880775	0.123711836
ENSG00000185085	INTS5	1142.272044	1.018390131	5.10E-05

ENSG00000254909	AP003392.2	6.731062121	1.017782761	0.47528048
ENSG00000167173	C15orf39	1501.22717	1.017606234	1.04E-05
ENSG00000240024	LINC00888	375.1582594	1.017177671	0.001027305
ENSG00000116151	MORN1	59.26330234	1.016901844	0.036219972
ENSG00000101997	CCDC22	558.3054282	1.016780354	6.40E-05
ENSG00000273258	AC016737.2	13.31465687	1.016763909	0.344850263
ENSG00000165689	ENTR1	3207.928151	1.01664956	1.92E-08
ENSG00000101460	MAP1LC3A	940.8965139	1.01655343	0.000754734
ENSG00000080189	SLC35C2	2698.551659	1.016504128	0.000135309
ENSG00000154277	UCHL1	40.69617979	1.01583837	0.082743367
ENSG00000178149	DALRD3	944.2034951	1.015214507	0.0001894
ENSG00000287548	AC021269.3	12.29747061	1.014867971	0.412665215
ENSG00000280067	AC023818.1	33.78144436	1.014752769	0.15458245
ENSG00000104957	CCDC130	1411.317257	1.014336181	6.86E-07
ENSG00000172613	RAD9A	970.3606752	1.013877028	0.000354477
ENSG00000272081	AC008972.2	20.04501277	1.012961883	0.248836483
ENSG00000260097	SPDYE6	60.18961261	1.012411912	0.021566297
ENSG00000176108	CHMP6	781.2359404	1.012249082	3.55E-07
ENSG00000170906	NDUFA3	1887.224962	1.011554519	3.71E-05
ENSG00000285725	AC004967.2	9.094698175	1.011069774	0.417105884
ENSG00000169509	CRCT1	30.28993921	1.010979718	0.225933435
ENSG00000178764	ZHX2	60.02261471	1.010468944	0.022027143
ENSG00000151665	PIGF	288.1098986	1.010127383	6.34E-05
ENSG00000167861	HID1	3483.326735	1.009697705	3.89E-05

ENSG00000170100	ZNF778	1185.917622	1.009567217	0.000179118
ENSG00000259553	AC140725.1	12.71071925	1.00903946	0.285836956
ENSG00000079112	CDH17	9.777383618	1.009007	0.368076523
ENSG00000005238	FAM214B	711.17173	1.008920452	0.015166868
ENSG00000255395	AP001972.4	138.6039652	1.008495034	0.006625149
ENSG00000088899	LZTS3	377.75022	1.007978993	0.000174932
ENSG00000109063	MYH3	35.75785903	1.00783748	0.159192036
ENSG00000229953	AL590666.2	19.61812229	1.007076831	0.246640983
ENSG00000133401	PDZD2	2222.640943	1.006828853	0.000305909
ENSG00000158528	PPP1R9A	312.4300007	1.00679409	0.001900609
ENSG00000166340	TPP1	5925.536305	1.006242711	4.59E-05
ENSG00000168952	STXBP6	4.840210423	1.00606242	0.662270034
ENSG00000108839	ALOX12	18.61584455	1.00571365	0.201260363
ENSG00000170442	KRT86	49.56634484	1.00551417	0.088392061
ENSG00000034693	PEX3	557.322062	1.005210437	0.000348098
ENSG00000168528	SERINC2	9317.696369	1.004633374	0.000129082
ENSG00000214706	IFRD2	4173.179359	1.004003865	1.23E-07
ENSG00000229833	PET100	56.91517007	1.003136877	0.089451927
ENSG00000152953	STK32B	4.453638268	1.002684534	0.622356019
ENSG00000114982	KANSL3	2733.712164	1.002656128	2.73E-06
ENSG00000168010	ATG16L2	1544.496309	1.002259278	0.008045313
ENSG00000126756	UXT	1425.45046	1.001587772	1.58E-05
ENSG00000280239	AC011498.7	12.76250699	1.001140073	0.345038367
ENSG00000138028	CGREF1	849.4334932	1.000817053	0.238227819

ENSG00000231426	FILNC1	113.9959138	1.000525724	0.011128798
ENSG00000171786	NHLH1	11.97536618	1.000522989	0.39997902
ENSG00000088053	GP6	18.03581387	1.000303594	0.298339526
ENSG00000090581	GNPTG	1997.811652	0.999976211	1.46E-07
ENSG00000232860	SMG7-AS1	16.95008561	0.999274255	0.284927699
ENSG00000245146	MALINC1	52.73230096	0.998763436	0.052706032
ENSG00000213523	SRA1	2615.704566	0.9987136	2.56E-06
ENSG00000272767	JMJD1C-AS1	28.85220078	0.998549428	0.193785995
ENSG00000101842	VSIG1	5.980924194	0.998183994	0.525343544
ENSG00000168887	C2orf68	1471.627443	0.998057051	6.90E-05
ENSG00000155893	PXYLP1	233.5136151	0.99714405	0.071800097
ENSG00000152214	RIT2	12.50349431	0.996133116	0.552871883
ENSG00000229950	TFAP2A-AS1	26.83219333	0.995852218	0.180922859
ENSG00000102181	CD99L2	2055.519198	0.995319788	2.18E-05
ENSG00000204842	ATXN2	4586.09949	0.994900448	4.76E-06
ENSG00000236393	AC091806.1	410.5379055	0.994744804	0.377971549
ENSG00000182484	WASH6P	688.1218439	0.994674872	1.11E-05
ENSG00000285715	AC063960.1	4.438947754	0.994323657	0.63740524
ENSG00000152076	CCDC74B	6.668301023	0.994176898	0.566073609
ENSG00000167969	ECI1	2741.654159	0.993524449	1.46E-05
ENSG00000176422	SPRYD4	544.300705	0.99338823	8.76E-06
ENSG00000196922	ZNF252P	141.6106814	0.993107603	0.013102401
ENSG00000229619	MBNL1-AS1	4.378063764	0.992878483	0.691945942
ENSG00000146063	TRIM41	2006.312394	0.992793298	6.82E-07

ENSG00000161551	ZNF577	329.23606	0.99263156	0.002321092
ENSG00000197191	CYSRT1	25.71083955	0.991942126	0.217950988
ENSG00000231365	WARS2-AS1	117.7214953	0.991752096	0.071118959
ENSG00000136487	GH2	39.74191729	0.990709208	0.237403387
ENSG00000265511	AC020558.2	6.3329251	0.990380021	0.528297223
ENSG00000203999	LINC01270	58.59191075	0.990132678	0.059014071
ENSG00000197568	HHLA3	217.8858208	0.990094069	0.009388302
ENSG00000197530	MIB2	945.8956665	0.989971735	4.22E-05
ENSG00000196743	GM2A	15643.23109	0.989472763	7.28E-07
ENSG00000185559	DLK1	17.70263493	0.989449273	0.258798663
ENSG00000156453	PCDH1	5295.840356	0.989323551	0.234797273
ENSG00000234072	AC074117.1	326.8657349	0.98916865	0.001292209
ENSG00000160285	LSS	2483.275197	0.989131923	1.46E-06
ENSG00000244694	PTCHD4	197.3255334	0.988490267	0.004476505
ENSG00000077463	SIRT6	780.9861327	0.988443813	8.91E-07
ENSG00000136161	RCBTB2	7.438189582	0.988316495	0.500586919
ENSG00000135549	PKIB	7355.622734	0.98786003	1.22E-05
ENSG00000186222	BLOC1S4	1298.813194	0.987829666	0.000430028
ENSG00000203870	SMIM9	146.1001858	0.986981386	0.023788073
ENSG00000107815	TWNK	1246.976919	0.986812672	0.008876146
ENSG00000115998	C2orf42	320.593482	0.986725171	0.000964463
ENSG00000112146	FBXO9	6410.976552	0.986683668	3.72E-09
ENSG00000128656	CHN1	6.583829442	0.986667078	0.528347974
ENSG00000277161	PIGW	374.3464101	0.986597042	0.002124411

ENSG00000177628	GBA	7044.859967	0.986562413	3.80E-05
ENSG00000232807	AL137186.2	10.42370768	0.986117479	0.409194816
ENSG00000065809	FAM107B	8067.559137	0.985942465	5.14E-05
ENSG00000274422	AC245060.5	8.229000938	0.984852014	0.595302606
ENSG00000197774	EME2	283.6948115	0.984492446	0.003061236
ENSG00000273437	AC108673.3	4.597414248	0.984364391	0.704551712
ENSG00000270083	AL021878.2	15.49189765	0.983957275	0.256938217
ENSG00000125844	RRBP1	42004.142	0.98375505	1.91E-07
ENSG00000166634	SERPINB12	20.07596873	0.98372468	0.378740524
ENSG00000242485	MRPL20	3379.875464	0.98368485	1.28E-07
ENSG00000085662	AKR1B1	36167.55267	0.983644313	8.94E-06
ENSG00000278869	BX539320.1	18.30171015	0.983286277	0.284752646
ENSG00000082014	SMARCD3	30.36864455	0.983247268	0.136112496
ENSG00000239779	WBP1	183.5254919	0.983132196	0.00432485
ENSG00000167618	LAIR2	652.5999838	0.982105471	0.015118694
ENSG00000272275	AC092687.3	62.89062351	0.982033056	0.101453636
ENSG00000198732	SMOC1	17.20528571	0.981641814	0.306363177
ENSG00000259974	LINC00261	31.68303384	0.980611394	0.096155853
ENSG00000157657	ZNF618	5.151277139	0.980417554	0.646501233
ENSG00000119004	CYP20A1	442.8353691	0.979597455	0.000542392
ENSG00000090674	MCOLN1	1529.118333	0.979512826	2.22E-06
ENSG00000113269	RNF130	25.41272398	0.978934403	0.253562831
ENSG00000143502	SUSD4	4.482485144	0.978541334	0.650969105
ENSG00000172366	MCRIP2	123.4172688	0.978341815	0.012317034

ENSG00000259956	RBM15B	2135.804045	0.978233059	6.65E-08
ENSG00000105255	FSD1	823.4515686	0.97761417	6.34E-05
ENSG00000063761	ADCK1	218.4490069	0.977608224	0.001481248
ENSG00000278828	HIST1H3H	109.7192443	0.977406847	0.010009222
ENSG00000104691	UBXN8	530.8255563	0.976937295	0.00128502
ENSG00000143167	GPA33	26.04220279	0.976465168	0.206821021
ENSG00000006047	YBX2	12.98129356	0.976337358	0.339080401
ENSG00000152137	HSPB8	48063.06191	0.97597437	6.10E-06
ENSG00000286782	AL355377.3	34.31161109	0.975595471	0.184686877
ENSG00000274272	AC069281.2	16.64709651	0.975261473	0.397122673
ENSG00000261342	AC006538.1	15.67985836	0.975201291	0.328896271
ENSG00000250988	SNHG21	10.36572894	0.975173661	0.378245748
ENSG00000263080	AC009121.3	20.79823886	0.97512724	0.368317901
ENSG00000242952	RPSAP3	9.57962211	0.9749251	0.477323888
ENSG00000187713	TMEM203	890.7298877	0.974872606	1.31E-05
ENSG00000104960	PTOV1	1574.093607	0.974834433	1.68E-06
ENSG00000163623	NKX6-1	5.809750655	0.974417259	0.620493368
ENSG00000235501	AC105942.1	8.513969542	0.974236642	0.443634952
ENSG00000134504	KCTD1	732.1854559	0.974179303	0.000104061
ENSG00000122140	MRPS2	633.0008697	0.973997197	0.000127058
ENSG00000228474	OST4	3282.026888	0.973919705	2.38E-06
ENSG00000170175	CHRNB1	1890.074617	0.973912887	5.27E-06
ENSG00000139714	MORN3	334.8630952	0.973163381	0.009866412
ENSG00000173926	MARCH3	14.52982395	0.972793929	0.337673184

ENSG00000144589	STK11IP	2268.853658	0.97242129	1.65E-08
ENSG00000172977	KAT5	977.3936125	0.971647995	4.38E-07
ENSG00000185306	C12orf56	166.8871468	0.971625719	0.005005771
ENSG00000233237	LINC00472	5.847766289	0.970766671	0.572758612
ENSG00000185168	LINC00482	212.5675406	0.970511333	0.004665538
ENSG00000278463	HIST1H2AB	2.882339561	0.969707252	0.731748148
ENSG00000257817	AC026765.3	177.8373999	0.969012198	0.034950162
ENSG00000183891	TTC32	113.7087479	0.968828631	0.010546011
ENSG00000111266	DUSP16	2585.878702	0.967977274	0.000238669
ENSG00000263766	AC025682.1	8.138666959	0.967251486	0.459426716
ENSG00000259431	THTPA	88.81904345	0.967124234	0.033933797
ENSG00000084764	MAPRE3	530.0617045	0.967068732	0.002205755
ENSG00000259802	AC012640.2	21.44815065	0.9669053	0.272475766
ENSG00000174428	GTF2IRD2B	120.6270003	0.966524229	0.004357919
ENSG00000138641	HERC3	9.006699211	0.966484195	0.482543296
ENSG00000176428	VPS37D	31.96449175	0.965540852	0.240704074
ENSG00000180458	AC022148.1	5.798528754	0.965246126	0.632095515
ENSG00000275601	AC011330.2	10.22796601	0.965181525	0.499950568
ENSG00000203684	IBA57-DT	6.14632397	0.964896562	0.672521585
ENSG00000173039	RELA	4321.640193	0.963520695	1.82E-06
ENSG00000166596	CFAP52	27.02747144	0.963099754	0.180922859
ENSG00000228126	FALEC	10.26258493	0.963073686	0.425767528
ENSG00000172748	ZNF596	45.83982724	0.962996324	0.108604018
ENSG00000268858	AL118506.1	176.7944989	0.962956656	0.021561062

ENSG00000247315	ZCCHC3	765.130585	0.962932004	0.000861263
ENSG00000218561	AL353133.1	4.902910309	0.962900404	0.704686423
ENSG00000281097	LINC01395	4.379368741	0.962720786	0.671923041
ENSG00000090263	MRPS33	1682.300941	0.962637264	0.000165168
ENSG00000108582	CPD	4401.691245	0.962560908	0.000431774
ENSG00000100439	ABHD4	4414.814363	0.962359434	7.76E-08
ENSG00000184208	C22orf46	1295.247702	0.962326061	3.74E-05
ENSG00000182372	CLN8	1931.487631	0.96199818	0.003389643
ENSG00000184545	DUSP8	1748.115349	0.961923328	7.18E-07
ENSG00000109424	UCP1	10.3534546	0.961871103	0.397057982
ENSG00000230979	AC079250.1	11.71086166	0.96121028	0.361175489
ENSG00000212694	LINC01089	192.7838073	0.961136162	0.008929557
ENSG00000168876	ANKRD49	573.2065847	0.960801466	0.00215186
ENSG00000234287	AC099560.2	31.98155558	0.960613205	0.156937696
ENSG00000173818	ENDOV	424.5077902	0.960524695	1.22E-05
ENSG00000081985	IL12RB2	8.444935244	0.960147387	0.451562345
ENSG00000100083	GGA1	2953.745497	0.959564824	4.34E-07
ENSG00000225986	UBXN10-AS1	49.13651644	0.959538939	0.279706682
ENSG00000140297	GCNT3	21.1783668	0.95940599	0.219142451
ENSG00000277748	AC006262.4	8.43653301	0.959366873	0.457756203
ENSG00000015520	NPC1L1	9.592345774	0.959267537	0.408143185
ENSG00000091428	RAPGEF4	146.0344497	0.95868703	0.019246621
ENSG00000148444	COMMD3	65.35777726	0.958642689	0.119163991
ENSG00000100151	PICK1	1879.949849	0.958420566	4.34E-07

ENSG00000269044	AC024075.2	68.91154188	0.958089361	0.066853748
ENSG00000143622	RIT1	1347.991768	0.957569513	2.80E-06
ENSG00000165807	PPP1R36	10.08016943	0.957547299	0.427802448
ENSG00000115211	EIF2B4	3037.539771	0.957459207	4.12E-08
ENSG00000251867	AC009812.1	25.40645637	0.956920963	0.211437491
ENSG00000168395	ING5	1101.416168	0.956564497	1.54E-05
ENSG00000197019	SERTAD1	1005.042405	0.956026458	0.000119768
ENSG00000214300	SPDYE3	70.4504496	0.95560669	0.137166091
ENSG00000279792	AC015909.5	8.748679155	0.955132419	0.479005133
ENSG00000159199	ATP5MC1	3907.757996	0.954983267	1.66E-05
ENSG00000172331	BPGM	7825.806935	0.954857248	0.004821655
ENSG00000088727	KIF9	57.94400441	0.954756265	0.036433857
ENSG00000280187	AC022107.1	25.86816683	0.954683467	0.250523244
ENSG00000231964	AL731567.1	9.872649982	0.954588105	0.529338721
ENSG00000130707	ASS1	2332.666191	0.954370334	4.87E-05
ENSG00000197162	ZNF785	9.559617031	0.954365235	0.437526664
ENSG00000161328	LRRC56	57.18590733	0.954047957	0.0438498
ENSG00000147813	NAPRT	464.7254123	0.953965054	0.00024519
ENSG00000165644	COMTD1	218.7732707	0.953933252	0.000480861
ENSG00000160813	PPP1R35	285.8043388	0.953618556	0.024868801
ENSG00000152782	PANK1	621.2995924	0.95357975	0.000450735
ENSG00000203865	ATP1A1-AS1	24.49270707	0.953503348	0.277268365
ENSG00000151148	UBE3B	1835.305115	0.953111821	5.89E-06
ENSG00000197273	GUCA2A	6.655974239	0.952855487	0.610097477

ENSG00000214309	MBLAC1	35.4091626	0.952353197	0.179900684
ENSG00000090382	LYZ	11.71716939	0.952160579	0.414583245
ENSG00000244265	SIAH2-AS1	13.89592193	0.951612684	0.307232386
ENSG00000215089	KRT18P11	13.66814499	0.951425609	0.351086862
ENSG00000168612	ZSWIM1	450.1339954	0.950863935	3.36E-05
ENSG00000109089	CDR2L	451.3804441	0.950581481	3.63E-05
ENSG00000172927	MYEOV	63.95087271	0.950398827	0.09255931
ENSG00000118894	EEF2KMT	499.1899693	0.950029298	0.000443371
ENSG00000197448	GSTK1	3896.212751	0.949585169	6.05E-07
ENSG00000177951	BET1L	2970.634487	0.949584081	0.001698676
ENSG00000130312	MRPL34	1680.137491	0.949154831	0.000215648
ENSG00000185519	FAM131C	10.00036101	0.948441375	0.530038353
ENSG00000160183	TMPRSS3	13.10631889	0.948133628	0.336588649
ENSG00000170348	TMED10	19318.80393	0.947607436	5.14E-06
ENSG00000264577	AC010761.1	45.29562127	0.947493718	0.237916017
ENSG00000167769	ACER1	18.67759031	0.947249162	0.277270179
ENSG00000223705	NSUN5P1	675.9720926	0.946855513	0.00189798
ENSG00000175707	KDF1	364.4800957	0.946468917	7.83E-05
ENSG00000165879	FRAT1	112.0019417	0.946467416	0.009045882
ENSG00000150779	TIMM8B	1298.590317	0.946283874	0.000278501
ENSG00000149452	SLC22A8	7.337741893	0.945968916	0.585760231
ENSG00000105700	KXD1	2530.028366	0.945865806	8.82E-08
ENSG00000230074	AL162231.2	88.48677704	0.945350952	0.115403203
ENSG00000256806	C17orf100	12.01034406	0.945305952	0.413756947

ENSG00000212994	RPS26P6	5.099300531	0.94506217	0.626797563
ENSG00000137221	TJAP1	1215.32933	0.944951573	2.81E-06
ENSG00000163602	RYBP	17494.06796	0.94454374	4.58E-07
ENSG00000230454	U73166.1	7.620293708	0.944475079	0.500586919
ENSG00000164405	UQCRQ	1921.511883	0.944343809	1.19E-05
ENSG00000238142	BX284668.5	10.07629732	0.944223896	0.452090829
ENSG00000187742	SECISBP2	2920.559206	0.944039344	0.000100762
ENSG00000178971	CTC1	2960.718994	0.943645706	0.000177916
ENSG00000280927	CTBP1-AS	17.13971363	0.943210472	0.342228056
ENSG00000204287	HLA-DRA	6.527033112	0.943148212	0.628341533
ENSG00000198786	MT-ND5	84667.23833	0.943002612	0.001053083
ENSG00000155636	RBM45	202.3835609	0.942630347	0.003114627
ENSG00000175334	BANF1	3268.523545	0.942535975	1.46E-05
ENSG00000137877	SPTBN5	127.804697	0.942449201	0.057846787
ENSG00000224914	LINC00863	72.06778409	0.942329903	0.034830821
ENSG00000152475	ZNF837	56.16587272	0.941859723	0.034640257
ENSG00000228594	FNDC10	59.46468191	0.9414539	0.093493735
ENSG00000168273	SMIM4	218.6864362	0.941097691	0.002694994
ENSG00000177352	CCDC71	415.3131452	0.940164107	0.000130895
ENSG00000184164	CRELD2	5269.130983	0.939887749	2.02E-08
ENSG00000181924	COA4	3187.935936	0.939772889	2.14E-06
ENSG00000120738	EGR1	182.2245195	0.93962845	0.087370165
ENSG00000198440	ZNF583	48.72794484	0.939563485	0.111770633
ENSG00000158373	HIST1H2BD	138.3238864	0.939256528	0.019436572

ENSG00000183172	SMDT1	738.7017294	0.938638893	3.30E-05
ENSG00000280426	AC084876.2	3.581397378	0.938536829	0.682058459
ENSG00000163530	DPPA2	5.693307475	0.938357804	0.56302753
ENSG00000270194	AC097359.2	55.97108415	0.938134779	0.156857859
ENSG00000099785	MARCH2	740.3408257	0.938091186	0.004118924
ENSG00000259884	AC025259.3	34.85676537	0.937889339	0.191986434
ENSG00000239332	LINC01119	135.5952242	0.937790643	0.117726758
ENSG00000104907	TRMT1	2237.461543	0.937764129	1.56E-06
ENSG00000136932	TRMO	239.5626556	0.937347691	0.012075036
ENSG00000268894	PLCE1-AS1	10.65399852	0.937303746	0.438473457
ENSG00000158006	PAFAH2	1181.47417	0.936901448	0.000197038
ENSG00000197226	TBC1D9B	5345.94994	0.93684804	1.19E-05
ENSG00000281468	AC006504.7	7.252155123	0.936835014	0.512701258
ENSG00000249673	NOP14-AS1	209.420302	0.936806564	0.000717454
ENSG00000223797	ENTPD3-AS1	103.8658666	0.936727956	0.027025769
ENSG00000167550	RHEBL1	42.74086026	0.936724679	0.173296946
ENSG00000083750	RRAGB	90.86945301	0.935297888	0.091665083
ENSG00000133107	TRPC4	3.578863243	0.934567371	0.721618641
ENSG00000259541	AP001150.1	4.697103385	0.93453025	0.616520117
ENSG00000163320	CGGBP1	1531.512682	0.934232386	3.82E-05
ENSG00000259536	AC091045.1	19.78018417	0.934165729	0.236337399
ENSG00000164867	NOS3	1006.003429	0.934157116	0.001268921
ENSG00000051128	HOMER3	50.7861953	0.933917673	0.160438072
ENSG00000104976	SNAPC2	306.2427315	0.932919048	0.002736895

ENSG00000099860	GADD45B	1246.424469	0.932360327	0.001482434
ENSG00000172530	BANP	1280.539811	0.931945177	1.32E-05
ENSG00000166595	CIAO2B	2117.567646	0.931748621	4.22E-06
ENSG00000173264	GPR137	1158.27987	0.930963644	9.66E-06
ENSG00000228887	EEF1DP1	36.48782894	0.930381335	0.17407665
ENSG00000163435	ELF3	4421.042243	0.93027011	4.93E-06
ENSG00000148334	PTGES2	3727.871308	0.930163483	4.58E-05
ENSG00000272588	AC139887.4	5.044036021	0.929944842	0.637433793
ENSG00000269947	AC135178.6	14.62420595	0.929581986	0.356931854
ENSG00000131828	PDHA1	5898.817926	0.929376687	1.64E-07
ENSG00000244879	GABPB1-AS1	137.9023332	0.929057989	0.00665644
ENSG00000187954	CYHR1	1225.085217	0.929009916	2.68E-05
ENSG00000164168	TMEM184C	1331.442131	0.928974278	9.92E-06
ENSG00000278932	CR381653.1	10.67367276	0.928780656	0.491265218
ENSG00000174996	KLC2	1071.753935	0.928355028	1.23E-06
ENSG00000103266	STUB1	1111.823216	0.927888294	3.24E-06
ENSG00000101181	MTG2	1226.65156	0.9272059	1.49E-06
ENSG00000268030	AC005253.1	36.04961743	0.926638627	0.188961175
ENSG00000154153	RETREG1	72.38559608	0.92604915	0.046864194
ENSG00000197976	AKAP17A	7005.990315	0.925933959	6.05E-07
ENSG00000141736	ERBB2	4833.464401	0.92580886	0.002125463
ENSG00000001084	GCLC	2014.764617	0.925735751	8.43E-06
ENSG00000091972	CD200	1593.408883	0.925226992	2.73E-06
ENSG00000157837	SPPL3	2900.225543	0.925031628	2.11E-06

ENSG00000162298	SYVN1	13432.84754	0.924647303	0.000120959
ENSG00000181894	ZNF329	358.6961864	0.924504197	0.000479556
ENSG00000226352	PSPC1-AS2	9.770406464	0.924455373	0.461492846
ENSG00000154832	CXXC1	3524.144306	0.924450757	0.000166329
ENSG00000244676	AL109761.1	21.17639854	0.924443138	0.243724151
ENSG00000111057	KRT18	347046.6706	0.92406174	2.71E-05
ENSG00000167635	ZNF146	5141.537536	0.92348839	2.56E-06
ENSG00000165782	PIP4P1	1945.28735	0.923440455	1.57E-07
ENSG00000206567	AC022007.1	170.105083	0.92342722	0.025845179
ENSG00000203497	PDCD4-AS1	19.66263618	0.92335141	0.281315776
ENSG00000124602	UNC5CL	432.5374044	0.92317569	0.031778665
ENSG00000169019	COMMD8	1010.237795	0.923144919	0.002350096
ENSG00000079999	KEAP1	1554.527581	0.923134247	6.14E-05
ENSG00000127528	KLF2	11.52576168	0.922859438	0.396526027
ENSG00000083307	GRHL2	2993.256277	0.922454524	1.74E-05
ENSG00000167384	ZNF180	165.9953926	0.922420754	0.041005348
ENSG00000227232	WASH7P	165.7175422	0.922198366	0.015150836
ENSG00000126768	TIMM17B	1257.068004	0.921995419	8.38E-05
ENSG00000077348	EXOSC5	888.0611811	0.920985534	0.000919038
ENSG00000161036	LRWD1	685.2069006	0.920814732	0.000121584
ENSG00000156127	BATF	30.37254808	0.920740593	0.220432783
ENSG00000134769	DTNA	5.623591922	0.920729628	0.610544173
ENSG00000240898	AC132942.1	9.474173988	0.920712441	0.598144832
ENSG00000240668	KRT8P36	153.5435172	0.920273548	0.026036536

ENSG00000153714	LURAP1L	278.3895737	0.920230616	0.116737103
ENSG00000275896	PRSS2	132.6471834	0.920077142	0.005629443
ENSG00000120158	RCL1	2096.539804	0.919459072	8.17E-06
ENSG00000162078	ZG16B	8.621728866	0.919332905	0.493730625
ENSG00000251417	AC145285.2	67.13867833	0.919271352	0.114853521
ENSG00000009950	MLXIPL	202.2205593	0.918951865	0.499065278
ENSG00000232645	LINC01431	8.624263001	0.918851289	0.459833624
ENSG00000181220	ZNF746	1087.595053	0.918779459	1.46E-06
ENSG00000228022	HCG20	8.939061855	0.918708394	0.572372697
ENSG00000283498	MIR1244-2	23.45079096	0.918490186	0.202489623
ENSG00000099974	DDTL	99.42824938	0.918127744	0.027460302
ENSG00000235272	RAMACL	8.637114387	0.917822608	0.449766454
ENSG00000227376	FTH1P16	7.109790551	0.917741214	0.536245321
ENSG00000167113	COQ4	450.881651	0.917723807	5.10E-05
ENSG00000159307	SCUBE1	5.834053863	0.916766972	0.595588924
ENSG00000183648	NDUFB1	1324.630149	0.916652531	0.000236975
ENSG00000267254	ZNF790-AS1	76.3201705	0.914760285	0.031282646
ENSG00000119900	OGFRL1	299.8699141	0.914718709	0.000564133
ENSG00000257681	AC025265.1	25.49651564	0.9140259	0.216420044
ENSG00000269680	AC008760.1	11.13164926	0.91395558	0.408902949
ENSG00000237289	CKMT1B	5354.057845	0.913939756	3.85E-06
ENSG00000124302	CHST8	6.35037235	0.913739426	0.580498273
ENSG00000196296	ATP2A1	94.15311629	0.913729584	0.031338756
ENSG00000172901	LVRN	207.9561163	0.913425614	0.089860943

ENSG00000198796	ALPK2	7.904995237	0.913347978	0.478239332
ENSG00000254901	BORCS8	250.5204668	0.912446376	0.002364034
ENSG00000002587	HS3ST1	873.7065756	0.912210254	0.001614394
ENSG00000285632	AC084024.4	6.608138964	0.912154929	0.60780407
ENSG00000251615	AC104825.1	103.1333547	0.912021427	0.073899648
ENSG00000236287	ZBED5	731.4526209	0.911923525	0.000224605
ENSG00000105135	ILVBL	7339.844621	0.911445777	0.003986675
ENSG00000179526	SHARPIN	1431.671268	0.910955482	9.44E-05
ENSG00000109321	AREG	28.77734642	0.910722564	0.211294152
ENSG00000114315	HES1	1692.150109	0.910653186	0.000669517
ENSG00000202314	SNORD6	8.988062855	0.910464891	0.445535952
ENSG00000022567	SLC45A4	779.7732174	0.910125028	0.001376812
ENSG00000255152	MSH5-SAPCD1	6.05047332	0.910005838	0.659657317
ENSG00000262468	LINC01569	68.20839866	0.909787157	0.089554937
ENSG00000189001	SBSN	319.5857148	0.909453365	0.003991969
ENSG00000102030	NAA10	1077.28672	0.909347325	0.000736267
ENSG00000139269	INHBE	6.492347895	0.909283122	0.553356218
ENSG00000275023	MLLT6	1641.107619	0.909205725	0.030233115
ENSG00000211895	IGHA1	8.447788105	0.908877767	0.58863772
ENSG00000196787	HIST1H2AG	129.4523143	0.908780145	0.006516277
ENSG00000124635	HIST1H2BJ	462.9766965	0.907849202	0.004478521
ENSG00000198171	DDRGK1	2618.446638	0.907728967	6.46E-06
ENSG00000189339	SLC35E2B	1778.952145	0.907706247	3.05E-06
ENSG00000166295	ANAPC16	1319.301491	0.907704772	0.000175475

ENSG00000167272	POP5	1481.957145	0.90745535	0.000225558
ENSG00000257086	AP001453.2	16.18323768	0.907451304	0.358091032
ENSG00000186312	CA5BP1	319.7368364	0.907353685	0.000141247
ENSG00000188186	LAMTOR4	2348.087168	0.907061659	3.71E-05
ENSG00000067842	ATP2B3	187.1302541	0.907030255	0.008178936
ENSG00000006611	USH1C	24.89155718	0.906916244	0.243147945
ENSG00000100379	KCTD17	222.3411279	0.906763218	0.001601846
ENSG00000070501	POLB	1203.717515	0.906750983	0.000611845
ENSG00000287445	AC092803.3	13.10207388	0.906624413	0.441280916
ENSG00000105404	RABAC1	99.54593874	0.905732512	0.025916244
ENSG00000210082	MT-RNR2	218927.2988	0.905655422	0.003503453
ENSG00000276261	AC009509.4	9.065294449	0.905518071	0.660086294
ENSG00000136206	SPDYE1	7.253251785	0.905344484	0.546227282
ENSG00000188039	NWD1	41.33215849	0.905012804	0.173844212
ENSG00000076944	STXBP2	1419.41498	0.904424158	8.43E-06
ENSG00000022976	ZNF839	306.3940144	0.904389646	0.012557634
ENSG00000179163	FUCA1	1335.320979	0.904355549	0.003232405
ENSG00000287562	AL109615.4	16.33947441	0.904335528	0.30662463
ENSG00000165868	HSPA12A	16.81513586	0.904323528	0.319231397
ENSG00000253666	AP000424.1	211.8486764	0.904284479	0.080245509
ENSG00000221909	FAM200A	250.9142076	0.904082153	0.007495179
ENSG00000179151	EDC3	2015.291144	0.903909638	4.92E-07
ENSG00000205485	AC004980.1	38.45352196	0.903800279	0.163741486
ENSG00000130811	EIF3G	12070.29593	0.903751032	5.54E-07

ENSG00000168813	ZNF507	808.4343048	0.903697941	0.000531043
ENSG00000271503	CCL5	286.418955	0.902319317	0.042512113
ENSG00000196152	ZNF79	449.1640839	0.90202015	0.001780996
ENSG00000185641	AC034236.1	54.50637716	0.901137999	0.06497655
ENSG00000156510	HKDC1	15.16948776	0.901116114	0.543295285
ENSG00000272034	SNORD14A	26.98520964	0.901087468	0.256429985
ENSG00000029534	ANK1	243.5088792	0.901063184	0.004816083
ENSG00000271976	AC012467.2	22.9266802	0.900463501	0.300774915
ENSG00000253111	AC091114.1	12.32975761	0.900237555	0.414207629
ENSG00000279641	AC120057.3	25.59971285	0.899997402	0.334542687
ENSG00000254585	MAGEL2	3.61277839	0.899709601	0.738333214
ENSG00000181027	FKRP	643.6119679	0.899589007	0.001378293
ENSG00000172113	NME6	1026.916695	0.898875192	0.000864909
ENSG00000073060	SCARB1	4622.567828	0.89878743	0.001886953
ENSG00000175283	DOLK	1283.997482	0.898632036	4.59E-05
ENSG00000113924	HGD	12.14528785	0.898335295	0.408793673
ENSG00000184811	TRARG1	3.704977877	0.898207478	0.770529834
ENSG00000160781	PAQR6	60.30427817	0.897350105	0.185394253
ENSG00000007341	ST7L	298.3916638	0.896435707	0.000541682
ENSG00000169891	REPS2	128.596953	0.896195127	0.032057069
ENSG00000185596	WASH3P	426.9143051	0.896112719	8.02E-05
ENSG00000178209	PLEC	27191.33028	0.895652836	0.003364001
ENSG00000133422	MORC2	2681.582114	0.895333775	1.48E-06
ENSG00000260852	FBXL19-AS1	46.13264998	0.895059075	0.129910552

ENSG00000241163	LINC00877	147.1084953	0.895048671	0.01201929
ENSG00000226824	AC006001.2	47.77582559	0.89503949	0.1286417
ENSG00000164414	SLC35A1	283.6354301	0.894917788	0.001052563
ENSG00000105676	ARMC6	732.0578161	0.894736353	0.000800162
ENSG00000280047	AC091825.3	8.471943595	0.894580787	0.555075991
ENSG00000100253	MIOX	11.18145507	0.894118483	0.571205151
ENSG00000063180	CA11	8.896807537	0.89388115	0.507950012
ENSG00000155256	ZFYVE27	1092.431198	0.893779021	0.000359177
ENSG00000119328	ABITRAM	863.5143364	0.893414283	0.002332738
ENSG00000140403	DNAJA4	47.42661252	0.893329185	0.106753788
ENSG00000178913	TAF7	3462.03384	0.89320816	8.28E-06
ENSG00000121073	SLC35B1	6376.302442	0.89313447	2.36E-06
ENSG00000175826	CTDNEP1	4676.780417	0.892550679	1.24E-06
ENSG00000196754	S100A2	45.22027258	0.892159262	0.099163149
ENSG00000103550	KNOP1	999.4195305	0.891791537	1.60E-05
ENSG00000105701	FKBP8	10778.00752	0.891621757	0.003229215
ENSG00000164675	IQUB	13.07283608	0.891577476	0.508185361
ENSG00000175309	PHYKPL	506.8269745	0.891200378	0.002477889
ENSG00000154016	GRAP	7.047335052	0.891164355	0.565617887
ENSG00000168701	TMEM208	3049.385442	0.890839166	2.03E-06
ENSG00000125995	ROMO1	1264.017509	0.890758977	8.07E-05
ENSG00000201302	SNORA65	27.15305258	0.890694889	0.286930191
ENSG00000169231	THBS3	115.3298066	0.890567925	0.043148838
ENSG00000184436	THAP7	521.9439065	0.890357613	0.000480709

ENSG00000148296	SURF6	1616.646156	0.890195336	0.000231934
ENSG00000231503	PTMAP4	13.50446774	0.889869219	0.365564739
ENSG00000152128	TMEM163	6.744133656	0.88976495	0.545014261
ENSG00000264247	LINC00909	56.1871532	0.889561748	0.072568562
ENSG00000225177	AL590617.2	90.40469972	0.889542191	0.030121787
ENSG00000267892	AC022144.1	7.721970304	0.889328396	0.528018196
ENSG00000176248	ANAPC2	2718.650611	0.889165647	3.49E-06
ENSG00000282111	LINC02815	4.891087123	0.889027037	0.653888859
ENSG00000185245	GP1BA	39.19304693	0.888603617	0.125436054
ENSG00000101199	ARFGAP1	6168.201842	0.8881976	1.03E-06
ENSG00000132199	ENOSF1	1456.994096	0.888128481	3.53E-05
ENSG00000015568	RGPD5	7.143743607	0.887906578	0.554598887
ENSG00000204859	ZBTB48	353.5999248	0.887903929	0.000265464
ENSG00000167701	GPT	10.44345745	0.887423901	0.504762131
ENSG00000105698	USF2	3689.571383	0.887321227	5.35E-06
ENSG00000141337	ARSG	78.78357079	0.887149354	0.070992454
ENSG00000100461	RBM23	4494.983262	0.886903633	0.000246067
ENSG00000258102	MAP1LC3B2	24.70047235	0.885911224	0.217692909
ENSG00000189046	ALKBH2	153.0574274	0.885852192	0.016625725
ENSG00000099994	SUSD2	8344.530729	0.885618863	0.037907676
ENSG00000115459	ELMOD3	449.9417111	0.884353879	0.000671133
ENSG00000265480	KRT18P55	16.41142309	0.884195886	0.403440847
ENSG00000196557	CACNA1H	32.38753699	0.883950966	0.215577674
ENSG00000250461	AC122718.1	6.780940368	0.88389156	0.571205151

ENSG00000181396	OGFOD3	889.5647807	0.883433056	0.000393357
ENSG00000117640	MTFR1L	1291.153552	0.883340213	7.00E-06
ENSG00000135452	TSPAN31	224.583888	0.883051914	0.003664337
ENSG00000120798	NR2C1	966.4133108	0.882877639	2.34E-05
ENSG00000254973	AC105219.4	25.5308122	0.882564776	0.214717336
ENSG00000125731	SH2D3A	2159.682991	0.882252035	0.002226931
ENSG00000170421	KRT8	594864.9482	0.882145612	1.43E-05
ENSG00000142751	GPN2	987.3749329	0.88170373	1.12E-05
ENSG00000155897	ADCY8	9.174021243	0.880974705	0.475391785
ENSG00000114125	RNF7	1298.600344	0.879930324	6.89E-06
ENSG00000225556	C2CD4D	30.11524477	0.879846296	0.28291666
ENSG00000178718	RPP25	75.82975431	0.879729314	0.042263622
ENSG00000245849	RAD51-AS1	146.3797157	0.879354251	0.011098963
ENSG00000165915	SLC39A13	418.4695492	0.879192141	0.002547921
ENSG00000142252	GEMIN7	9.000006144	0.879057281	0.547581443
ENSG00000176896	TCEANC	149.9876121	0.878784488	0.071565791
ENSG00000148346	LCN2	7.020232173	0.87815162	0.566095797
ENSG00000258884	LINC02321	103.2758314	0.877859003	0.11315479
ENSG00000168939	SPRY3	11.34078597	0.877827633	0.435649215
ENSG00000232838	PET117	24.11005435	0.877480831	0.245754732
ENSG00000099840	IZUMO4	81.71607401	0.877180542	0.087429574
ENSG00000188690	UROS	698.9688034	0.876974784	0.000113938
ENSG00000171984	SHLD1	26.5435325	0.876843256	0.240327847
ENSG00000088726	TMEM40	5151.264164	0.876594054	0.000338129

ENSG00000117592	PRDX6	25891.78235	0.876368877	2.87E-07
ENSG00000147119	CHST7	48.84995375	0.876362809	0.065968132
ENSG00000229431	AL139289.1	33.15424522	0.876335756	0.173259112
ENSG00000111653	ING4	574.56962	0.875624046	0.000110843
ENSG00000167779	IGFBP6	46.90028996	0.875539877	0.369788547
ENSG00000138085	ATRAID	3739.596499	0.875003309	0.000113281
ENSG00000250571	GLI4	160.5503282	0.874841511	0.01090746
ENSG00000056487	PHF21B	10.66001831	0.874744034	0.523193145
ENSG00000159167	STC1	8.405067163	0.874516479	0.501485134
ENSG00000272368	AC074032.1	10.65167822	0.874396234	0.487049932
ENSG00000110047	EHD1	26706.1005	0.874141283	7.18E-08
ENSG00000119684	MLH3	826.5171486	0.874064724	0.000275173
ENSG00000178201	VN1R1	8.50387244	0.874019902	0.500827554
ENSG00000152931	PART1	9.14429326	0.873675472	0.564345496
ENSG00000285967	NIPBL-DT	36.46997413	0.873439736	0.175659037
ENSG00000177192	PUS1	2006.946874	0.873395913	3.54E-05
ENSG00000158863	FAM160B2	3374.036026	0.873211411	0.003342898
ENSG00000273014	AC018645.3	10.561605	0.87306329	0.439839916
ENSG00000078061	ARAF	3754.113969	0.872966647	4.93E-06
ENSG00000174886	NDUFA11	250.7934727	0.872096675	0.010979944
ENSG00000262873	AC127496.5	7.653341722	0.871683838	0.647796752
ENSG00000167862	MRPL58	1184.763028	0.871195578	7.74E-06
ENSG00000182318	ZSCAN22	313.511722	0.870950952	0.001245282
ENSG00000232842	AL137845.2	6.675747307	0.870556609	0.585869967

ENSG00000102871	TRADD	546.550314	0.870383739	0.001010675
ENSG00000149591	TAGLN	877.6570999	0.868602436	0.024810506
ENSG00000081041	CXCL2	6.17365515	0.868204819	0.705235949
ENSG00000162817	C1orf115	11993.87047	0.867594906	0.000199788
ENSG00000160345	C9orf116	12.0915746	0.8671113	0.469590923
ENSG00000246560	UBE2D3-AS1	60.55818056	0.867079113	0.128609858
ENSG00000229153	EPHA1-AS1	35.88718099	0.866939474	0.233999571
ENSG00000129625	REEP5	7005.920161	0.866071717	9.33E-05
ENSG00000054116	TRAPPC3	3609.657579	0.865893175	1.53E-05
ENSG00000136718	IMP4	2246.901124	0.865012808	0.000113243
ENSG00000146834	MEPCE	2613.680562	0.864886966	0.001200537
ENSG00000151690	MFSD6	1858.102119	0.864550411	0.002371587
ENSG00000003402	CFLAR	881.3062639	0.864168419	0.000163743
ENSG00000114767	RRP9	861.9913967	0.864100162	0.003268089
ENSG00000165506	DNAAF2	640.1067859	0.863961822	0.000134222
ENSG00000133962	CATSPERB	35.86784964	0.863525089	0.195509474
ENSG00000099795	NDUFB7	2513.218891	0.863177186	2.00E-05
ENSG00000148291	SURF2	759.2013351	0.862813641	0.00432485
ENSG00000182873	PRKCZ-AS1	692.2964627	0.862412959	0.005310309
ENSG00000223745	CCDC18-AS1	159.6819943	0.862376929	0.117719559
ENSG00000226965	AC073114.1	33.86245155	0.862223215	0.172763612
ENSG00000125459	MSTO1	1864.659694	0.862192214	3.93E-05
ENSG00000213862	AC044787.1	9.137105649	0.861904577	0.536225635
ENSG00000141696	P3H4	286.2584558	0.861856736	0.00879135

ENSG00000227160	THEM7P	6.976219392	0.861807733	0.564309277
ENSG00000260236	AC099778.1	15.35534531	0.86152613	0.477567306
ENSG00000059145	UNKL	726.81661	0.861486763	0.000321631
ENSG00000127720	METTL25	84.83948459	0.861075227	0.063732131
ENSG00000102003	SYP	18.87052052	0.860822364	0.293837434
ENSG00000108733	PEX12	127.0816027	0.860803456	0.027045147
ENSG00000092850	TEKT2	12.28359383	0.860427495	0.438571231
ENSG00000126581	BECN1	2050.419389	0.859885984	0.003148363
ENSG00000103363	ELOB	2893.455007	0.859713727	3.09E-06
ENSG00000205129	C4orf47	18.53793604	0.859700226	0.384951322
ENSG00000230021	AL669831.3	47.22184018	0.859388339	0.137378427
ENSG00000177700	POLR2L	3443.382833	0.859084569	0.000178026
ENSG00000229180	AC006001.3	367.063072	0.858815192	0.00128498
ENSG00000105137	SYDE1	4945.709276	0.858682212	2.52E-05
ENSG00000205155	PSENEN	174.3728017	0.858506383	0.014389125
ENSG00000184489	PTP4A3	32.1352604	0.857989059	0.258955753
ENSG00000182518	FAM104B	171.1649984	0.857937539	0.007240674
ENSG00000105198	LGALS13	2025.810629	0.857850328	0.008480886
ENSG00000175756	AURKAIP1	3934.337463	0.857739572	2.98E-06
ENSG00000236892	AL357833.1	7.980682915	0.857459173	0.549064267
ENSG00000197149	AC107956.1	15.91583937	0.857335953	0.389356708
ENSG00000068323	TFE3	2920.247937	0.857313658	0.000176203
ENSG00000172428	COPS9	535.4210534	0.857058188	0.002496097
ENSG00000260669	AL096870.2	8.078778719	0.856693092	0.512599123

ENSG00000006194	ZNF263	1157.334036	0.856460852	0.000189016
ENSG00000217930	PAM16	34.74556189	0.855894623	0.153191501
ENSG00000196968	FUT11	471.0215858	0.855810893	0.000171057
ENSG00000131408	NR1H2	4066.893159	0.854979663	9.67E-05
ENSG00000155542	SETD9	204.0845912	0.854498479	0.002128124
ENSG00000213638	ADAT3	244.8849949	0.854492212	0.012353245
ENSG00000115590	IL1R2	51.08660966	0.85448243	0.188939678
ENSG00000092054	MYH7	26.25896654	0.854104888	0.303138899
ENSG00000116521	SCAMP3	4867.386112	0.853938978	3.15E-06
ENSG00000244005	NFS1	1118.291592	0.853321575	9.49E-05
ENSG00000157680	DGKI	26.37710099	0.852785088	0.413555727
ENSG00000127125	PPCS	1695.276251	0.852608296	7.67E-05
ENSG00000268199	AC010335.1	9.165000204	0.852254397	0.502944099
ENSG00000267575	AC006504.5	61.02955204	0.851985764	0.097469381
ENSG00000280832	GSEC	431.6549525	0.851892839	0.016970771
ENSG00000285907	AL161910.1	161.7503855	0.851753246	0.024437384
ENSG00000138074	SLC5A6	35913.15563	0.851698925	7.10E-06
ENSG00000175348	TMEM9B	1846.106218	0.851517561	7.00E-06
ENSG00000267174	AC011472.2	62.55343875	0.851335798	0.239002915
ENSG00000131446	MGAT1	11657.82622	0.851238797	5.78E-06
ENSG00000248254	AC107398.2	6.951741004	0.851019426	0.587574845
ENSG00000109917	ZPR1	2677.138721	0.850878439	0.00010832
ENSG00000269925	Z98884.2	6.647349142	0.850865877	0.585869967
ENSG00000287574	AC004938.2	8.634503568	0.850760466	0.529198952

ENSG00000279413	AC112497.2	19.76815911	0.850516314	0.355259734
ENSG00000115446	UNC50	1963.92903	0.850310392	7.77E-06
ENSG00000018869	ZNF582	63.95270498	0.849431935	0.043190653
ENSG00000183914	DNAH2	5.164356825	0.848798469	0.676207776
ENSG00000159210	SNF8	1041.88171	0.848671689	6.57E-06
ENSG00000145217	SLC26A1	19.18987488	0.848450272	0.358122371
ENSG00000126070	AGO3	961.7019329	0.848448414	0.000882003
ENSG00000119411	BSPRY	677.1892132	0.8482525	0.004311154
ENSG00000278959	AC006378.2	10.33433952	0.847710455	0.539145732
ENSG00000163931	TKT	27203.87281	0.847597952	0.00010767
ENSG00000067829	IDH3G	2924.665715	0.847395903	5.25E-07
ENSG00000265205	AC010761.3	5.271259965	0.847364163	0.652660771
ENSG00000144040	SFXN5	242.4231654	0.846666868	0.039896991
ENSG00000102125	TAZ	489.1335089	0.846536069	0.001422246
ENSG00000173727	AP000769.1	1471.599113	0.846325803	9.17E-05
ENSG00000170917	NUDT6	16.3227871	0.845970037	0.509936598
ENSG00000207611	MIR149	10.43472599	0.845947399	0.457715566
ENSG00000162994	CLHC1	61.51859833	0.84583528	0.089327771
ENSG00000099365	STX1B	56.46336859	0.845699491	0.284752646
ENSG00000214253	FIS1	3777.115953	0.845639122	1.01E-05
ENSG00000104946	TBC1D17	2188.22844	0.844825142	7.83E-05
ENSG00000279253	AL121753.2	19.89875388	0.844482726	0.378396059
ENSG00000085982	USP40	1214.888506	0.844431014	2.24E-05
ENSG00000164068	RNF123	1647.759498	0.844074357	0.004319037

ENSG00000178429	RPS3AP5	13.43135069	0.844036431	0.412203335
ENSG00000265060	PPY2P	28.14583841	0.843981917	0.203566797
ENSG00000167863	ATP5PD	2715.722066	0.843978491	0.000167681
ENSG00000255468	AP001107.9	23.92494277	0.843771437	0.336423832
ENSG00000283031	AC009242.1	4.817181341	0.84362917	0.654250088
ENSG00000116685	KIAA2013	4056.687041	0.843406778	1.36E-05
ENSG00000135441	BLOC1S1	53.66132447	0.843356967	0.113418921
ENSG00000272808	AC015712.6	4.830032727	0.842683753	0.690428104
ENSG00000151611	MMAA	108.8761169	0.842521467	0.093095332
ENSG00000175193	PARL	151.5894085	0.842388921	0.039611346
ENSG00000185022	MAFF	8676.876977	0.841567193	7.37E-06
ENSG00000237017	AC245052.4	21.85969285	0.841114047	0.263861856
ENSG00000181019	NQO1	2981.566327	0.841083259	6.37E-05
ENSG00000103260	METRN	178.8720518	0.841044097	0.006999359
ENSG00000248371	LINC02056	8.85932925	0.840937764	0.543785037
ENSG00000260442	ATP2A1-AS1	9.628255727	0.840925166	0.500345328
ENSG00000198276	UCKL1	2076.28502	0.840524829	8.07E-05
ENSG00000198355	PIM3	13519.97663	0.840400069	6.81E-05
ENSG00000107185	RGP1	2639.480514	0.840234368	0.002687184
ENSG00000153391	INO80C	356.2507073	0.83966423	0.000970434
ENSG00000273314	AC005229.4	32.65486233	0.839134077	0.184409237
ENSG00000106331	PAX4	21.21971043	0.839039145	0.328721723
ENSG00000165271	NOL6	3717.99117	0.839027458	1.94E-06
ENSG00000222041	CYTOR	209.2533441	0.838966855	0.110759427

ENSG00000183718	TRIM52	73.89298914	0.838837575	0.07776411
ENSG00000204758	AC008429.1	25.27481516	0.838587134	0.247113751
ENSG00000264175	MIR3189	72.1548128	0.838566419	0.104629118
ENSG00000171747	LGALS4	21.87743578	0.838563911	0.386700407
ENSG00000215790	SLC35E2A	210.8091945	0.838528268	0.011618995
ENSG00000179611	DGKZP1	58.38653697	0.838236861	0.096513951
ENSG00000161677	JOSD2	168.7840974	0.837928284	0.009402151
ENSG00000224078	SNHG14	10.69373727	0.837888086	0.48562831
ENSG00000204599	TRIM39	602.9847643	0.837750033	0.004604927
ENSG00000011451	WIZ	1367.890941	0.837402318	3.79E-05
ENSG00000253540	FAM86HP	8.351410233	0.837242168	0.636880577
ENSG00000105662	CRTC1	438.0824924	0.836797965	0.000146266
ENSG00000197818	SLC9A8	496.30043	0.836187056	0.004863249
ENSG00000106537	TSPAN13	638.3557307	0.836153173	0.033880427
ENSG00000075399	VPS9D1	177.9729608	0.835981646	0.014182264
ENSG00000273998	AL049794.1	7.733465806	0.835897282	0.648731336
ENSG00000168781	PPIP5K1	1053.078744	0.835420397	0.002458409
ENSG00000132932	ATP8A2	142.7764177	0.835147599	0.026086436
ENSG00000167733	HSD11B1L	32.54082657	0.834879222	0.26941938
ENSG00000004534	RBM6	4286.376383	0.83397405	3.82E-06
ENSG00000023191	RNH1	6686.687665	0.833850501	3.21E-05
ENSG00000164430	CGAS	10.50943314	0.833802203	0.54615031
ENSG00000088340	FER1L4	482.4729982	0.833755029	0.002915136
ENSG00000171307	ZDHHC16	2555.978604	0.832351406	3.03E-06

ENSG00000228624	HDAC2-AS2	20.70122737	0.83218831	0.305610174
ENSG00000172500	FIBP	1788.046581	0.831921882	5.95E-05
ENSG00000162227	TAF6L	904.495633	0.831768432	0.000265474
ENSG00000109072	VTN	48.19800601	0.831301536	0.126797353
ENSG00000217130	AL139100.1	14.35084779	0.831286175	0.412179632
ENSG00000107738	VSIR	38886.09165	0.831117872	0.000820976
ENSG00000134825	TMEM258	1889.975736	0.831009281	6.00E-05
ENSG00000149131	SERPING1	1378.198014	0.830590478	0.000478229
ENSG00000125445	MRPS7	3336.022908	0.83029698	1.05E-05
ENSG00000167766	ZNF83	2394.775287	0.829934758	0.007386307
ENSG00000126461	SCAF1	4198.839162	0.829751264	6.13E-06
ENSG00000237765	FAM200B	453.6112194	0.829740022	0.000809807
ENSG00000106733	NMRK1	884.2121896	0.82816373	0.000344325
ENSG00000233276	GPX1	8740.556826	0.827684302	0.000214468
ENSG00000223804	AC244669.1	5.912338427	0.827487804	0.620493368
ENSG00000143878	RHOB	3649.71623	0.827227324	0.001338966
ENSG00000129255	MPDU1	4529.47495	0.827186526	2.51E-05
ENSG00000179304	FAM156B	29.35562542	0.827062442	0.248337533
ENSG00000063176	SPHK2	340.3023641	0.82689604	0.002069188
ENSG00000205702	CYP2D7	20.12075706	0.826687966	0.329639477
ENSG00000099999	RNF215	364.5405463	0.826583538	0.008384422
ENSG00000198690	FAN1	528.8447906	0.826495773	0.004240437
ENSG00000245322	AC097460.1	6.461647344	0.826360093	0.607581567
ENSG00000184787	UBE2G2	3710.062346	0.826232908	7.64E-05

ENSG00000108465	CDK5RAP3	447.7821463	0.826207949	0.025051573
ENSG00000158615	PPP1R15B	14700.25591	0.826172956	3.57E-05
ENSG00000166192	SENP8	58.85232245	0.826010256	0.119528839
ENSG00000277203	F8A1	26.8076628	0.825834733	0.351125006
ENSG00000287865	AC099552.5	13.77316892	0.825450299	0.389324592
ENSG00000258429	PDF	64.26787678	0.825084292	0.11440499
ENSG00000115295	CLIP4	190.4591957	0.82505866	0.016018081
ENSG00000112414	ADGRG6	2694.381835	0.824959955	0.004570943
ENSG00000251161	AC020661.1	13.56362864	0.824897398	0.522099634
ENSG00000154803	FLCN	1698.303633	0.824848236	0.00667849
ENSG00000227543	SPAG5-AS1	28.91676885	0.824708613	0.213943551
ENSG00000224903	AC005534.1	11.42124724	0.824350301	0.512683689
ENSG00000263201	DPEP2NB	403.9960282	0.824311156	0.016585718
ENSG00000236438	FAM157A	61.56753999	0.824183657	0.090799023
ENSG00000189144	ZNF573	47.53189832	0.823868183	0.159736593
ENSG00000143258	USP21	654.672457	0.82377703	2.73E-05
ENSG00000106133	NSUN5P2	13.45464015	0.82368459	0.477767654
ENSG00000167380	ZNF226	305.6178518	0.823624349	0.005980382
ENSG00000141837	CACNA1A	4.068861762	0.823411418	0.752755134
ENSG00000063322	MED29	1647.774154	0.823269299	0.000138937
ENSG00000160948	VPS28	2737.680487	0.822455066	0.000320151
ENSG00000213793	ZNF888	830.4563142	0.822376674	0.000946451
ENSG00000103496	STX4	2416.222001	0.821758848	0.000106647
ENSG00000226950	DANCR	1360.318775	0.821683251	0.000480558

ENSG00000144366	GULP1	3571.868011	0.821486915	0.007371167
ENSG00000123545	NDUFAF4	340.3929569	0.821454049	0.006478229
ENSG00000114735	HEMK1	565.4708008	0.821182813	0.018136236
ENSG00000198496	NBR2	120.2652267	0.820624831	0.021195759
ENSG00000182362	YBEY	239.7060262	0.820616329	0.004075231
ENSG00000163472	TMEM79	269.8276651	0.820556129	0.010130919
ENSG00000102103	PQBP1	1691.48991	0.820441258	0.014786701
ENSG00000178826	TMEM139	48.79001799	0.820311428	0.342035589
ENSG00000158104	HPD	36.58087182	0.820214175	0.333313557
ENSG00000226396	AL031727.1	12.30991055	0.820151851	0.457456939
ENSG00000254285	KRT8P3	4295.071549	0.81924901	3.70E-05
ENSG00000146576	C7orf26	588.431241	0.818729249	0.00015883
ENSG00000157870	PRXL2B	13.6285859	0.818507902	0.498792743
ENSG00000122696	SLC25A51	384.1401285	0.818481741	0.002899693
ENSG00000214941	ZSWIM7	507.1133475	0.817905044	0.000283073
ENSG00000255501	CARD18	123.7953308	0.817461024	0.015758886
ENSG00000164683	HEY1	3293.488047	0.817441707	0.000866005
ENSG00000146677	AC004453.1	21.07113646	0.817356825	0.338266276
ENSG00000271815	AC008897.3	9.224402486	0.817209813	0.518755994
ENSG00000197308	GATA3-AS1	417.7933064	0.816633105	0.013677713
ENSG00000257702	LBX2-AS1	513.6771466	0.816611706	0.003561676
ENSG00000134294	SLC38A2	21601.93389	0.816503614	0.002990347
ENSG00000180596	HIST1H2BC	357.9465975	0.816165239	0.003055262
ENSG00000104522	TSTA3	2658.362892	0.815969058	0.000103789

ENSG00000171533	MAP6	5.560957251	0.815849338	0.67380606
ENSG00000196914	ARHGEF12	7029.25793	0.815540681	0.00086083
ENSG00000228205	AC131235.1	8.053422279	0.815490673	0.592391397
ENSG00000243710	CFAP57	59.60365335	0.815487415	0.100954616
ENSG00000224652	LINC00885	93.0026204	0.815178461	0.078106035
ENSG00000101442	ACTR5	456.5018348	0.81499498	0.000158224
ENSG00000184162	NR2C2AP	448.8195275	0.814771377	0.004127296
ENSG00000107833	NPM3	1091.524178	0.814536663	0.000337416
ENSG00000250508	LINC02701	30.3140944	0.814376512	0.349316192
ENSG00000197582	GPX1P1	557.5480012	0.814171107	0.002594868
ENSG00000224144	ASH2LP1	4.162813399	0.814068771	0.704155141
ENSG00000239665	AL157392.3	78.41421196	0.814017788	0.073717327
ENSG00000163607	GTPBP8	175.0807424	0.81369183	0.02138653
ENSG00000243902	FP325335.1	12.42876513	0.813552397	0.439084881
ENSG00000142188	TMEM50B	419.4007984	0.81316657	0.010312802
ENSG00000266313	AC026254.2	6.067563139	0.813028031	0.612254257
ENSG00000198131	ZNF544	1069.686138	0.813027986	0.009148993
ENSG00000162384	CZIB	839.8670827	0.812946906	0.00209524
ENSG00000175938	ORAI3	10.60895726	0.812885003	0.512383562
ENSG00000067533	RRP15	630.8431522	0.812660998	0.006623411
ENSG00000273568	AC131009.3	17.47700799	0.812121718	0.37498597
ENSG00000130827	PLXNA3	1806.574846	0.811848382	0.001597986
ENSG00000177042	TMEM80	579.9135644	0.811825749	0.00152673
ENSG00000125356	NDUFA1	1953.317314	0.811526722	5.20E-05

ENSG00000273329	AC078846.1	66.67105636	0.811382208	0.078285904
ENSG00000090487	SPG21	4093.041898	0.81126032	5.72E-05
ENSG00000172216	CEBPB	12034.34592	0.811249006	0.000103258
ENSG00000162545	CAMK2N1	929.9816418	0.810681702	0.029615113
ENSG00000272084	AL137127.1	10.24591455	0.810641572	0.46293226
ENSG00000257365	FNTB	151.9185251	0.81060489	0.048443689
ENSG00000137440	FGFBP1	259.5561094	0.809611249	0.109052342
ENSG00000163993	S100P	25510.80522	0.809549851	0.007225573
ENSG00000158062	UBXN11	842.7654269	0.809156573	0.009792547
ENSG00000172650	AGAP5	8.788577335	0.808750107	0.558582883
ENSG00000257950	P2RX5-TAX1BP3	6.567865167	0.807778225	0.598746174
ENSG00000245975	AC090515.2	5.789522	0.807735917	0.662919525
ENSG00000160113	NR2F6	12166.12303	0.807561669	0.000207137
ENSG00000164112	TMEM155	8.957450821	0.80699814	0.56525189
ENSG00000121989	ACVR2A	241.3379467	0.806979368	0.011276454
ENSG00000162910	MRPL55	1998.156763	0.806831675	1.29E-05
ENSG00000251495	PPIAP11	6.411752711	0.8066651	0.612996398
ENSG00000267924	AC139769.2	4.730437312	0.806194517	0.660429527
ENSG00000173020	GRK2	4560.776301	0.806133578	0.002291272
ENSG00000173991	TCAP	20.86449998	0.805559351	0.480226484
ENSG00000143314	MRPL24	3049.966362	0.805221047	0.000481642
ENSG00000216990	HSPD1P10	65.98196076	0.804643502	0.385774265
ENSG00000114626	ABTB1	2116.71909	0.804319021	0.044601641
ENSG00000166343	MSS51	37.262687	0.804219062	0.205956771

ENSG00000067365	METTL22	658.2193393	0.803014102	0.000743675
ENSG00000215424	MCM3AP-AS1	68.04857783	0.802758814	0.058252855
ENSG00000140995	DEF8	1941.143785	0.802606322	1.27E-05
ENSG00000187957	DNER	8.071152076	0.802494617	0.548579503
ENSG00000225377	NRSN2-AS1	19.75858091	0.802160467	0.342493963
ENSG00000187699	C2orf88	7.486527905	0.802019032	0.539709995
ENSG00000160783	PMF1	421.5344833	0.801919198	0.00151918
ENSG00000147099	HDAC8	241.4641676	0.801828147	0.002338048
ENSG00000161180	CCDC116	6.085697425	0.801378114	0.598746174
ENSG00000144591	GMPPA	6106.177895	0.800585928	0.00023222
ENSG00000147955	SIGMAR1	2015.906673	0.800532715	0.000367111
ENSG00000026508	CD44	173.9456261	0.800454519	0.046923741
ENSG00000253738	OTUD6B-AS1	291.079999	0.800356399	0.002426953
ENSG00000104723	TUSC3	13725.00734	0.799915353	0.001568909
ENSG00000106404	CLDN15	94.9350878	0.799705582	0.063272359
ENSG00000158786	PLA2G2F	297.5445656	0.799546611	0.079393499
ENSG00000196118	CCDC189	6.930955549	0.799313021	0.598783692
ENSG00000237753	AC079922.2	9.269497463	0.799134946	0.531586508
ENSG00000226985	LINC01203	20.45269473	0.799002732	0.293149688
ENSG00000272008	AL139274.2	137.538939	0.798812435	0.259064729
ENSG00000164199	ADGRV1	87.97725588	0.798802134	0.174577513
ENSG00000204348	DXO	744.2435447	0.798651534	0.000344325
ENSG00000158792	SPATA2L	641.9277972	0.798613289	0.004311934
ENSG00000172893	DHCR7	13765.20351	0.798466085	0.001019066

ENSG00000182796	TMEM198B	287.0890881	0.798445388	0.01482274
ENSG00000177485	ZBTB33	826.1076255	0.798442976	0.000170142
ENSG00000179041	RRS1	1069.490163	0.798441644	0.00029521
ENSG00000236104	ZBTB22	689.2202081	0.798241731	0.010390997
ENSG00000169627	BOLA2B	80.41598236	0.797985667	0.118334261
ENSG00000156140	ADAMTS3	47.55408781	0.7978726	0.201058388
ENSG00000077935	SMC1B	6.097434235	0.79775158	0.607607903
ENSG00000183978	COA3	1010.548878	0.79754683	0.000223778
ENSG00000226091	LINC00937	9.772093832	0.797371901	0.642526596
ENSG00000104812	GYS1	7991.012776	0.796951363	0.00188606
ENSG00000269858	EGLN2	147.832358	0.796914893	0.049544653
ENSG00000234769	WASH4P	94.35136541	0.796877177	0.036712439
ENSG00000266258	LINC01909	15.09326781	0.796551059	0.426198571
ENSG00000167770	OTUB1	5782.281225	0.796310037	1.02E-05
ENSG00000198853	RUSC2	1168.631747	0.795759872	0.011477581
ENSG00000198478	SH3BGRL2	3078.751342	0.79556115	0.000687085
ENSG00000248898	AC022126.1	23.04867649	0.795358237	0.31976586
ENSG00000119929	CUTC	713.8675201	0.79531799	0.001480124
ENSG00000177679	SRRM3	665.0650133	0.795317856	0.001484196
ENSG00000257497	AC121761.1	19.0298481	0.795158674	0.359985296
ENSG00000068308	OTUD5	4381.462512	0.794775777	0.00017574
ENSG00000253438	PCAT1	12.27011038	0.794734922	0.469877746
ENSG00000008952	SEC62	9880.973499	0.794372417	0.000454036
ENSG00000115457	IGFBP2	21.3918612	0.793957554	0.415762634

ENSG00000164182	NDUFAF2	520.6768216	0.793644108	0.001432588
ENSG00000268001	CARD8-AS1	12.6098548	0.793467996	0.439241944
ENSG00000287263	AC008875.3	10.38942191	0.792814556	0.552302868
ENSG00000186666	BCDIN3D	83.27568261	0.792558849	0.072386456
ENSG00000071889	FAM3A	2774.486703	0.792104285	5.43E-05
ENSG00000105607	GCDH	1051.180797	0.791900361	0.000494825
ENSG00000072310	SREBF1	4650.415155	0.791799215	0.001664948
ENSG00000111203	ITFG2	346.6642266	0.791701089	0.003168129
ENSG00000095794	CREM	3825.311001	0.791582207	0.000629371
ENSG00000142675	CNKSR1	1056.663273	0.791082539	0.000359142
ENSG00000100949	RABGGTA	1744.183955	0.790853196	1.43E-05
ENSG00000145358	DDIT4L	252.2760836	0.7906892	0.008096599
ENSG00000182986	ZNF320	95.98905536	0.790378147	0.080741899
ENSG00000102393	GLA	3425.28436	0.789988283	4.95E-05
ENSG00000228589	SPCS2P4	139.1808373	0.789910163	0.018659038
ENSG00000160318	CLDND2	8.818091614	0.78966252	0.646894944
ENSG00000223891	OSER1-DT	136.6083071	0.78962346	0.060968151
ENSG00000167257	RNF214	820.8702599	0.788865381	0.000661527
ENSG00000163930	BAP1	2997.406739	0.788725375	0.000129145
ENSG00000177370	TIMM22	886.9829621	0.788313999	0.000381044
ENSG00000258659	TRIM34	180.0328304	0.788263716	0.038158518
ENSG00000100023	PPIL2	2815.656124	0.788156824	0.000206765
ENSG00000136542	GALNT5	8.216966734	0.788101632	0.559076747
ENSG00000223482	NUTM2A-AS1	451.0547486	0.787860206	0.001549204

ENSG00000149577	SIDT2	6432.308903	0.787641973	0.014004137
ENSG00000262079	AC007638.1	8.011573063	0.787321187	0.555738873
ENSG00000100842	EFS	499.5319758	0.786977863	0.014176801
ENSG00000177868	SVBP	199.5063717	0.786884185	0.007357927
ENSG00000205643	CDPF1	285.0222115	0.786426283	0.024221395
ENSG00000085871	MGST2	138.5820335	0.78633099	0.04045604
ENSG00000240793	UBA52P8	24.41227663	0.786021083	0.372964463
ENSG00000232721	AC239800.2	3.991182382	0.785833808	0.797311129
ENSG00000272455	AL391244.2	50.77649936	0.785657832	0.169170453
ENSG00000185129	PURA	1342.865539	0.785334304	0.001315558
ENSG00000165655	ZNF503	20.0706567	0.784877377	0.393074764
ENSG00000112541	PDE10A	10.91977574	0.784835996	0.613203004
ENSG00000220205	VAMP2	957.1741775	0.784559002	0.003521471
ENSG00000260095	AC106820.3	5.394851982	0.784204493	0.689520403
ENSG00000130165	ELOF1	2585.717662	0.783784748	0.001360328
ENSG00000125430	HS3ST3B1	381.3025288	0.783767934	0.044005556
ENSG00000133121	STARD13	585.0108024	0.78346624	0.000933937
ENSG00000219747	AL133260.1	19.5113471	0.78345925	0.379320788
ENSG00000205352	PRR13	2645.226532	0.783266741	0.000265464
ENSG00000182134	TDRKH	1284.248924	0.783249238	0.063226031
ENSG00000143570	SLC39A1	21.71512464	0.783199025	0.368257926
ENSG00000143578	CREB3L4	235.7435714	0.783178644	0.022337539
ENSG00000228889	UBAC2-AS1	59.12104253	0.783102417	0.107012603
ENSG00000256269	HMBS	2331.264924	0.782777224	0.000203699

ENSG00000138029	HADHB	3044.168073	0.782542056	3.87E-05
ENSG00000205847	OR7E91P	120.3628826	0.782502659	0.043989917
ENSG00000261211	AL031123.2	6.127881383	0.782366855	0.686169477
ENSG00000168434	COG7	557.9797093	0.78232903	0.00097237
ENSG00000287603	AC008403.3	36.73727524	0.782014388	0.192297964
ENSG00000163312	HELQ	304.2015288	0.781823799	0.00373515
ENSG00000164081	TEX264	1339.109793	0.781492384	0.000293344
ENSG00000138138	ATAD1	6738.228231	0.781405348	0.002538062
ENSG00000236753	MKLN1-AS	46.69818076	0.78136898	0.215870347
ENSG00000117984	CTSD	2638.241009	0.781240086	1.08E-05
ENSG00000064651	SLC12A2	238.220598	0.780973886	0.115695567
ENSG00000152503	TRIM36	8.846004013	0.780824972	0.557359927
ENSG00000170291	ELP5	1410.07186	0.780681672	0.000297668
ENSG00000261221	ZNF865	277.541138	0.780587835	0.005963884
ENSG00000173451	THAP2	79.66544988	0.780547547	0.054265367
ENSG00000279861	AC073548.1	32.92979305	0.780496224	0.349352927
ENSG00000233396	LINC01719	62.44552017	0.780441935	0.168175339
ENSG00000226259	GTF2H2B	8.098523569	0.779350755	0.650218079
ENSG00000249626	AC024560.2	17.9491436	0.779124615	0.417876805
ENSG00000078237	TIGAR	529.7187064	0.779078727	0.006117827
ENSG00000131849	ZNF132	50.9518574	0.779008665	0.139186361
ENSG00000120049	KCNIP2	13.19613261	0.778971968	0.465293764
ENSG00000287262	AC021148.2	7.558912172	0.778755221	0.63000379
ENSG00000230844	ZNF674-AS1	145.3960726	0.778104392	0.068824886

ENSG00000197114	ZGPAT	279.6591917	0.778065547	0.010823417
ENSG00000253368	TRNP1	40.34755018	0.777970154	0.186577669
ENSG00000204149	AGAP6	12.38962443	0.777825222	0.449662108
ENSG00000108963	DPH1	1027.908675	0.777726896	0.000924963
ENSG00000177191	B3GNT8	7.423271963	0.777509529	0.596358646
ENSG00000180432	CYP8B1	118.3956893	0.777106374	0.026081431
ENSG00000224429	LINC00539	10.69625504	0.776979207	0.635745419
ENSG00000227057	WDR46	3516.251299	0.776681385	5.32E-05
ENSG00000156860	FBRS	15069.16069	0.776570515	0.001768237
ENSG00000172831	CES2	660.7263883	0.77613879	0.002147647
ENSG00000214837	LINC01347	28.02520566	0.775936268	0.309028399
ENSG00000171303	KCNK3	183.0333957	0.775876406	0.116737103
ENSG00000185163	DDX51	861.8273165	0.7757585	0.0040495
ENSG00000207561	MIR635	17.67221765	0.775604216	0.387312587
ENSG00000183682	BMP8A	61.82189976	0.775510639	0.15524197
ENSG00000226479	TMEM185B	926.7240651	0.775445641	0.005496861
ENSG00000279434	AL049776.1	5.329594729	0.775243917	0.719931202
ENSG00000172586	CHCHD1	1327.314291	0.775172315	0.000491787
ENSG00000224745	AC063965.2	12.9757303	0.775171081	0.500827554
ENSG00000103404	USP31	79.21487145	0.775159175	0.059623706
ENSG00000129968	ABHD17A	2652.016844	0.775122814	2.81E-05
ENSG00000110711	AIP	2404.696745	0.775092401	0.00179812
ENSG00000167261	DPEP2	215.3658394	0.774904781	0.094080167
ENSG00000121690	DEPDC7	259.3895139	0.77400612	0.202951799

ENSG00000197136	PCNX3	3841.562453	0.77394217	0.000504808
ENSG00000085998	POMGNT1	4102.566769	0.773743935	0.006999359
ENSG00000078804	TP53INP2	1637.510011	0.773492412	0.013601025
ENSG00000106617	PRKAG2	7803.37035	0.773081302	0.000262149
ENSG00000271780	AL118558.3	27.82628536	0.772814795	0.287583232
ENSG00000137747	TMPRSS13	2257.045825	0.77280024	0.003235981
ENSG00000241081	RPL22P2	6.820090562	0.772721425	0.630419433
ENSG00000141002	TCF25	4753.068148	0.772658802	9.60E-06
ENSG00000147155	EBP	989.8106335	0.772477025	0.017542804
ENSG00000253878	AC087752.3	21.84192103	0.771849106	0.381438704
ENSG00000261790	AC005606.2	27.26415388	0.771794374	0.26052499
ENSG00000151065	DCP1B	232.6105424	0.771779687	0.028390072
ENSG00000144711	IQSEC1	5111.600236	0.771712097	0.000227043
ENSG00000283071	LBHD2	6.018640281	0.771363295	0.675997713
ENSG00000221978	CCNL2	4131.186259	0.771213508	0.002053825
ENSG00000204634	TBC1D8	1113.00997	0.771202131	0.009628925
ENSG00000130313	PGLS	916.1681733	0.771001097	0.000189079
ENSG00000204619	PPP1R11	2450.150905	0.770999246	0.000273351
ENSG00000181135	ZNF707	509.5600288	0.770969605	0.003711714
ENSG00000135637	CCDC142	636.618712	0.770576303	0.031255204
ENSG00000143157	POGK	1231.90738	0.770373643	9.16E-05
ENSG00000143178	TBX19	23.57169021	0.770339916	0.327295705
ENSG00000249087	ZNF436-AS1	167.4561717	0.77033845	0.061761229
ENSG00000236008	LINC01814	7.227791056	0.769909081	0.676500578

ENSG00000177879	AP3S1	2066.786853	0.769770719	0.000124444
ENSG00000178093	TSSK6	30.11216496	0.769686416	0.307633467
ENSG00000280734	LINC01232	5.018472804	0.769536129	0.665425826
ENSG00000026036	RTEL1-TNFRSF6B	63.18899422	0.769379595	0.165581854
ENSG00000100068	LRP5L	68.82234328	0.769325808	0.084184389
ENSG00000114631	PODXL2	223.4885963	0.769292614	0.005488152
ENSG00000149016	TUT1	669.9238502	0.768111089	0.001036063
ENSG00000006468	ETV1	9.267237761	0.768016781	0.547332119
ENSG00000158806	NPM2	12.4809089	0.767327721	0.473158156
ENSG00000242802	AP5Z1	1039.822467	0.767290436	0.030436981
ENSG00000160194	NDUFV3	1625.692475	0.76716318	0.000197859
ENSG00000102804	TSC22D1	12977.66488	0.767110195	0.005354352
ENSG00000115234	SNX17	2469.732535	0.766909022	0.000310436
ENSG00000029559	IBSP	11.21471131	0.766679609	0.654635242
ENSG00000136371	MTHFS	22.11832515	0.766592715	0.299949976
ENSG00000196747	HIST1H2AI	11.05709049	0.766540357	0.503236214
ENSG00000184160	ADRA2C	99.74919931	0.765945721	0.035906429
ENSG00000273002	AL355388.2	8.97968896	0.765797618	0.612309645
ENSG00000105270	CLIP3	9.103806987	0.765464836	0.55996532
ENSG00000163687	DNASE1L3	48.88795273	0.765425477	0.206192812
ENSG00000139514	SLC7A1	6134.960342	0.765383949	0.000176099
ENSG00000140688	C16orf58	967.2891017	0.765379879	0.0392657
ENSG00000213609	RPL7AP50	6.060214269	0.765062663	0.693963592
ENSG00000233250	AC233728.1	6.816641402	0.764814726	0.643685246

ENSG00000132128	LRRC41	1964.011741	0.764206969	9.55E-05
ENSG00000255042	AC109635.3	79.54553139	0.763952578	0.0552511
ENSG00000122965	RBM19	914.8616589	0.763944412	0.001680704
ENSG00000129824	RPS4Y1	37.71997492	0.763884216	0.270823847
ENSG00000235092	ID2-AS1	29.02077515	0.763832594	0.496673932
ENSG00000188994	ZNF292	11768.72385	0.763828169	0.000142298
ENSG00000250318	AC003072.1	5.284886941	0.763510423	0.704608964
ENSG00000139899	CBLN3	41.3902031	0.763444509	0.260966592
ENSG00000111361	EIF2B1	3817.118917	0.763197634	1.02E-05
ENSG00000182196	ARL6IP4	13.97590276	0.763023728	0.482983379
ENSG00000223573	TINCR	7178.629958	0.762476506	0.003805647
ENSG00000237973	MTCO1P12	608.8272388	0.7624279	0.033576463
ENSG00000258839	MC1R	137.0177637	0.761861591	0.032793901
ENSG00000259256	LINC01895	195.9323403	0.761576237	0.045609271
ENSG00000226833	AC092164.1	55.72074186	0.761428423	0.211051882
ENSG00000085760	MTIF2	1618.823008	0.761249461	0.000997206
ENSG00000204941	PSG5	23011.58482	0.76104004	8.14E-05
ENSG00000173011	TADA2B	1651.280632	0.760792696	0.000122175
ENSG00000233461	AL445524.1	54.74350764	0.760172111	0.16720446
ENSG00000111671	SPSB2	144.0398595	0.760150081	0.03322576
ENSG00000137343	ATAT1	271.6830256	0.760067747	0.007821773
ENSG00000138459	SLC35A5	1149.132193	0.759732005	0.002668981
ENSG00000168152	THAP9	287.4206804	0.759717736	0.028943336
ENSG00000283429	MIR1244-3	6.331559263	0.759320247	0.651294182

ENSG00000234283	LINC01731	16.56584164	0.759265171	0.480182529
ENSG00000181404	WASHC1	198.5884349	0.759129516	0.023861032
ENSG00000143222	UFC1	7729.337451	0.759061987	1.95E-05
ENSG00000198783	ZNF830	340.2423837	0.758346051	0.006918481
ENSG00000206562	METTL6	871.2810403	0.758079168	0.000735715
ENSG00000272655	POLR2J4	87.0983031	0.757589544	0.309398644
ENSG00000148704	VAX1	3.345425603	0.757366677	0.789058643
ENSG00000183283	DAZAP2	5012.637656	0.757353878	0.000101039
ENSG00000196465	MYL6B	1006.541914	0.757098564	0.001216827
ENSG00000066405	CLDN18	14.72850109	0.756847089	0.409160124
ENSG00000185127	C6orf120	944.5433411	0.756786335	0.000562974
ENSG00000226443	GAPDHP32	19.01043475	0.756767536	0.503560974
ENSG00000243147	MRPL33	1146.827622	0.756645423	0.001243236
ENSG00000143179	UCK2	1751.836984	0.75635277	0.001131459
ENSG00000101871	MID1	1276.612203	0.756153457	0.009184766
ENSG00000233393	AP000688.2	64.42112717	0.755375902	0.278606395
ENSG00000181513	ACBD4	271.5922848	0.755203344	0.027688146
ENSG00000131398	KCNC3	265.983566	0.754885362	0.059610615
ENSG00000231742	LINC01273	21.3140655	0.754738174	0.317597573
ENSG00000186166	CCDC84	837.5480488	0.7543023	0.038590179
ENSG00000135631	RAB11FIP5	15861.77642	0.754232342	0.001080921
ENSG00000280157	AL359510.2	5.560746602	0.754162777	0.74370705
ENSG00000254064	AC105206.2	6.947745157	0.753996434	0.633656747
ENSG00000132155	RAF1	8585.245861	0.753791887	0.000126538

ENSG00000245025	AC107959.1	125.2321913	0.753765213	0.17861862
ENSG00000264456	AC138207.4	24.33940997	0.753745729	0.385428397
ENSG00000008513	ST3GAL1	16058.01148	0.752969773	0.008679612
ENSG00000130340	SNX9	4381.249667	0.752678223	8.90E-05
ENSG00000247092	SNHG10	137.7594236	0.752432003	0.068821716
ENSG00000244625	MIATNB	7.392172705	0.752399253	0.687720802
ENSG00000119446	RBM18	1202.485245	0.752198992	0.000180923
ENSG00000196151	WDSUB1	721.9429983	0.752167038	0.008894829
ENSG00000104951	IL4I1	11.02662543	0.752083894	0.555044504
ENSG00000104979	C19orf53	3178.657487	0.751709636	0.000190046
ENSG00000157600	TMEM164	734.104148	0.751651325	0.004471387
ENSG00000187778	MCRS1	3264.29813	0.75162428	4.45E-05
ENSG00000257038	AP002761.3	7.287156364	0.751584841	0.603347426
ENSG00000173141	MRPL57	2043.720728	0.751477065	0.001448103
ENSG00000185262	UBALD2	3808.608077	0.75131519	0.00145087
ENSG00000268087	AC008764.2	16.92330654	0.751299668	0.478185526
ENSG00000204904	LINC01545	7.550413257	0.751103713	0.696561385
ENSG00000010256	UQCRC1	15955.55748	0.751075635	0.000295396
ENSG00000214212	C19orf38	8.071063873	0.750983546	0.630351371
ENSG00000183773	AIFM3	11.32987388	0.750934026	0.620562413
ENSG00000114383	TUSC2	1710.398825	0.750769156	0.001415444
ENSG00000160584	SIK3	5347.394728	0.750714075	0.004515835
ENSG00000149823	VPS51	4428.716043	0.750614212	0.002286
ENSG00000100263	RHBDD3	822.1731296	0.750558833	0.003319315

ENSG00000233937	AC008443.1	77.96008522	0.75008215	0.076816514
ENSG00000261888	AC144831.1	8.810022896	0.749391202	0.662671861
ENSG00000112041	TULP1	177.8175357	0.749384509	0.054616079
ENSG00000108511	HOXB6	4.909054982	0.749065525	0.69314285
ENSG00000143224	PPOX	268.3923819	0.74900318	0.047583643
ENSG00000138380	CARF	122.3594894	0.748948437	0.118608534
ENSG00000167037	SGSM1	60.01370753	0.748932103	0.220611491
ENSG00000286989	AL691432.4	7.190580237	0.748862389	0.687308402
ENSG00000278771	RN7SL3	69.70627964	0.748852311	0.235341762
ENSG00000132286	TIMM10B	941.3312465	0.748619817	0.007377766
ENSG00000198715	GLMP	1535.506792	0.748193056	0.002469248
ENSG00000049656	CLPTM1L	8749.421367	0.748186695	5.59E-05
ENSG00000148384	INPP5E	451.5042367	0.748025198	0.010857323
ENSG00000274265	AC245297.3	161.8180404	0.747975512	0.02699278
ENSG00000166987	MBD6	2210.144244	0.747974241	0.000959461
ENSG00000198841	KTI12	144.934731	0.747841987	0.044655614
ENSG00000011485	PPP5C	6597.726847	0.747723883	7.57E-05
ENSG00000169727	GPS1	5270.214612	0.747547629	1.74E-05
ENSG00000231551	AC245100.4	30.4756026	0.747381917	0.27820793
ENSG00000166860	ZBTB39	340.824565	0.747349403	0.003285996
ENSG00000071462	BUD23	3605.73133	0.746329453	8.13E-05
ENSG00000254470	AP5B1	3784.833225	0.746207697	0.011217439
ENSG00000104524	PYCR3	244.2939751	0.745805544	0.037270009
ENSG00000174943	KCTD13	547.5501747	0.745566241	0.000498336

ENSG00000176261	ZBTB8OS	1099.480584	0.745531037	0.001083874
ENSG00000149357	LAMTOR1	3233.036867	0.745249434	0.000192138
ENSG00000228043	AC114763.1	6.430159602	0.745040403	0.642526596
ENSG00000228502	EEF1A1P11	4.94857654	0.744626509	0.676724651
ENSG00000267519	AC020916.1	968.357019	0.744451242	0.033970935
ENSG00000143850	PLEKHA6	21894.65353	0.744429401	0.00522835
ENSG00000235194	PPP1R3E	65.59257083	0.744196281	0.133220553
ENSG00000071859	FAM50A	8322.2546	0.744184648	7.34E-05
ENSG00000176473	WDR25	132.9206318	0.744091417	0.064154714
ENSG00000118298	CA14	15.51208753	0.743832085	0.461623999
ENSG00000178927	CYBC1	1456.276631	0.743387378	0.000752495
ENSG00000267280	TBX2-AS1	11.92109968	0.743343079	0.519430568
ENSG00000230650	AC140479.2	5.262537586	0.743089798	0.71379774
ENSG00000185808	PIGP	188.5410308	0.74295181	0.029147527
ENSG00000164610	RP9	360.8274608	0.742820761	0.005830631
ENSG00000106927	AMBP	65.5358453	0.741626645	0.094196253
ENSG00000279738	AL022311.1	46.18113146	0.741418363	0.237640758
ENSG00000281327	LINC01338	4.945080323	0.741351566	0.709315583
ENSG00000180398	MCFD2	19700.90095	0.740958792	0.000307873
ENSG00000079337	RAPGEF3	102.870731	0.740665113	0.055001258
ENSG00000183309	ZNF623	396.8406195	0.740615707	0.001351696
ENSG00000215915	ATAD3C	69.22157141	0.740440071	0.21631749
ENSG00000138382	METTL5	1174.622409	0.740368871	0.002482213
ENSG00000107021	TBC1D13	1138.010852	0.740332717	0.000109113

ENSG00000184675	AMER1	175.5516177	0.740048242	0.02682322
ENSG00000023909	GCLM	517.3844676	0.739883027	0.000744347
ENSG00000005075	POLR2J	1716.696985	0.739739346	0.003530613
ENSG00000158019	BABAM2	1286.554625	0.739563765	0.000988902
ENSG00000102445	RUBCNL	5.981735061	0.739332365	0.646894944
ENSG00000261761	LINC02616	129.5440765	0.739003155	0.031072331
ENSG00000100307	CBX7	488.5587767	0.738975528	0.095970069
ENSG00000105705	SUGP1	1622.140591	0.73891061	0.000880152
ENSG00000182324	KCNJ14	37.02224882	0.738654281	0.299852944
ENSG00000186162	CIDECP1	233.4807834	0.738061934	0.024991597
ENSG00000181873	IBA57	214.0991527	0.737583763	0.020954252
ENSG00000184378	ACTRT3	11.95092372	0.73746862	0.489348569
ENSG00000006059	KRT33A	7.957196899	0.737230276	0.580079001
ENSG00000204745	AC083899.1	107.2869631	0.737127302	0.061540648
ENSG00000149761	NUDT22	704.7209872	0.737043622	0.008751129
ENSG00000154736	ADAMTS5	164.0914069	0.736608617	0.084475887
ENSG00000279048	AC080080.1	10.20037792	0.736557381	0.565997974
ENSG00000107223	EDF1	18394.35705	0.736541745	9.09E-05
ENSG00000205078	SYCE1L	5.328624495	0.736366443	0.740642751
ENSG00000146083	RNF44	1697.064723	0.73626779	0.000993745
ENSG00000160766	GBAP1	347.2494496	0.736166353	0.061932751
ENSG00000184611	KCNH7	7.751091314	0.735952215	0.614132478
ENSG00000121775	TMEM39B	641.316616	0.735830985	0.003933051
ENSG00000287576	AC067930.8	6.618302847	0.735698188	0.63587359

ENSG00000152380	FAM151B	130.550206	0.735475213	0.037628448
ENSG00000215875	ST13P20	8.893779292	0.735436257	0.606868667
ENSG00000171813	PWWP2B	5770.159311	0.734606075	0.000738386
ENSG00000132153	DHX30	3110.161545	0.734598173	3.77E-05
ENSG00000176040	TMPRSS7	6.175456499	0.734488279	0.67328
ENSG00000256955	AC131009.2	8.769088705	0.734188721	0.63156994
ENSG00000165943	MOAP1	860.952143	0.73383721	0.001101214
ENSG00000204564	C6orf136	837.2137718	0.733623851	0.004738858
ENSG00000278212	AC134878.2	89.38332739	0.733336596	0.081474
ENSG00000137817	PARP6	400.0409865	0.733215412	0.051220428
ENSG00000119703	ZC2HC1C	584.0285131	0.732471226	0.018099332
ENSG00000160460	SPTBN4	3.671743191	0.73239407	0.798455447
ENSG00000103507	BCKDK	2509.286829	0.731021425	0.000546613
ENSG00000199053	MIR324	14.27253721	0.730996287	0.519345896
ENSG00000163866	SMIM12	922.5451226	0.730917229	0.002714783
ENSG00000268350	FAM156A	280.4530948	0.730863452	0.009157806
ENSG00000273486	AC096992.2	16.09871738	0.730795985	0.441339968
ENSG00000150337	FCGR1A	6.744245536	0.730689527	0.692542372
ENSG00000148343	MIGA2	781.3011598	0.730294859	0.003886448
ENSG00000225101	OR52K3P	8.853915383	0.730083059	0.554754241
ENSG00000128298	BAIAP2L2	25.54517564	0.729697595	0.398533509
ENSG00000167671	UBXN6	2122.159374	0.729628886	0.000877206
ENSG00000267169	AC022098.1	35.09029412	0.72962052	0.328082636
ENSG00000225793	AL080250.1	20.55258101	0.729530704	0.496790395

ENSG00000052749	RRP12	5317.008181	0.729498359	0.00746123
ENSG00000160075	SSU72	6006.978361	0.729155583	0.000252989
ENSG00000277369	AC010654.1	11.67421484	0.729015286	0.646085774
ENSG00000261556	SMG1P7	83.5537668	0.728964764	0.250351105
ENSG00000227066	Z98257.1	1360.770019	0.728948818	0.001469087
ENSG00000142511	GPR32	4540.285806	0.728945442	0.039909828
ENSG00000205745	AC083864.1	46.0768636	0.72822728	0.223074134
ENSG00000188725	SMIM15	638.6547404	0.728112796	0.004538397
ENSG00000142544	CTU1	175.074513	0.728105154	0.051296646
ENSG00000221923	ZNF880	580.328133	0.727945776	0.009937205
ENSG00000174527	MYO1H	31.89005252	0.727668103	0.253562831
ENSG00000125877	ITPA	1112.171671	0.727631587	0.004546797
ENSG00000188938	FAM120AOS	6905.410953	0.727468517	0.002576152
ENSG00000140395	WDR61	1421.728447	0.727458252	0.00054481
ENSG00000188766	SPRED3	15.77314779	0.727319771	0.433838868
ENSG00000167536	DHRS13	317.2137483	0.727266619	0.016380085
ENSG00000108306	FBXL20	581.225343	0.727062981	0.012586014
ENSG00000255237	AC138230.1	8.214785243	0.727052345	0.617450309
ENSG00000167625	ZNF526	812.0955334	0.727047669	0.007603641
ENSG00000132612	VPS4A	1327.13511	0.726763253	5.66E-05
ENSG00000282988	AL031777.3	5.14187841	0.726558151	0.73654022
ENSG00000267317	AC027307.2	97.56576769	0.72655673	0.069906133
ENSG00000126500	FLRT1	9.23484953	0.726546191	0.621657166
ENSG00000140264	SERF2	5261.985508	0.726462402	0.000476865

ENSG00000133872	SARAF	3935.677324	0.726394448	0.003313677
ENSG00000173153	ESRRA	4363.681355	0.72597076	0.000667811
ENSG00000178467	P4HTM	1099.525659	0.725923793	0.011550178
ENSG00000147912	FBXO10	137.1805168	0.725683348	0.027186813
ENSG00000087494	PTHLH	17.65265018	0.725674062	0.517414916
ENSG00000279495	AL928654.4	175.5113262	0.725511505	0.057667279
ENSG00000160226	CFAP410	75.48812476	0.725348964	0.114360941
ENSG00000188984	AADACL3	11.58243973	0.725000786	0.707604947
ENSG00000054148	PHPT1	2731.86411	0.724965852	7.02E-05
ENSG00000203857	HSD3B1	45033.19561	0.724664307	0.028549731
ENSG00000108591	DRG2	1737.635139	0.724614816	0.000427504
ENSG00000115884	SDC1	77918.1591	0.724496854	0.019740479
ENSG00000101276	SLC52A3	1419.311681	0.724471142	0.008219919
ENSG00000129535	NRL	33.21807671	0.724374273	0.288245559
ENSG00000172869	DMXL1	1329.087612	0.72424232	0.001926546
ENSG00000262919	CCNQ	922.4926503	0.724003529	0.014560347
ENSG00000185291	IL3RA	163.2472654	0.723969909	0.039262179
ENSG00000175087	PDIK1L	187.0285329	0.723882211	0.167664663
ENSG00000006715	VPS41	2888.794624	0.72336774	6.19E-05
ENSG00000108515	ENO3	102.0005468	0.723318126	0.136443749
ENSG00000169359	SLC33A1	453.2030377	0.723291946	0.003150722
ENSG00000153406	NMRAL1	2074.72212	0.723244823	0.000925345
ENSG00000157911	PEX10	500.70111	0.723054611	0.032445636
ENSG00000143774	GUK1	5808.103835	0.722922315	0.000198739

ENSG00000226179	LINC00685	6.103458806	0.722693184	0.748803686
ENSG00000203499	IQANK1	2425.990432	0.722485721	0.000291266
ENSG00000145050	MANF	11026.43789	0.721984028	2.57E-05
ENSG00000105854	PON2	1672.084827	0.721911526	0.001971545
ENSG00000182087	TMEM259	6226.877498	0.721813244	0.000542358
ENSG00000166261	ZNF202	373.1431073	0.721796538	0.01321751
ENSG00000257704	INAFM1	198.6709056	0.721361429	0.126797353
ENSG00000228960	OR2A9P	11.39997429	0.721231493	0.535340733
ENSG00000125734	GPR108	2270.02251	0.721193756	0.004480963
ENSG00000123983	ACSL3	11064.25804	0.721023362	0.005373689
ENSG00000268205	AC005261.1	369.200405	0.720734685	0.003233226
ENSG00000114541	FRMD4B	882.8391665	0.720339886	0.000235477
ENSG00000165124	SVEP1	12.48511573	0.720289563	0.581809749
ENSG00000272447	AL135925.1	17.0829173	0.719917613	0.525084697
ENSG00000221983	UBA52	19055.98707	0.719239801	0.000311334
ENSG00000167965	MLST8	2234.884928	0.71913114	9.68E-05
ENSG00000224677	PDIA3P2	7.209854482	0.718870774	0.665593955
ENSG00000257354	AC048341.1	27.18908753	0.718780882	0.340655912
ENSG00000284543	LINC01226	53.58806205	0.718730825	0.166331014
ENSG00000177692	DNAJC28	86.58121982	0.718546847	0.149468842
ENSG00000085377	PREP	2167.846467	0.718543016	0.008876146
ENSG00000196352	CD55	22946.29868	0.718533899	0.003145737
ENSG00000105393	BABAM1	1109.063728	0.718458368	0.001763213
ENSG00000173156	RHOD	686.5817364	0.718451093	0.037105284

ENSG00000139651	ZNF740	483.650774	0.718438605	0.039852531
ENSG00000103249	CLCN7	2539.640978	0.717381187	0.001185867
ENSG00000273344	PAXIP1-AS1	349.3218374	0.717359435	0.016288477
ENSG00000105671	DDX49	2199.608898	0.716665757	0.00592813
ENSG00000012822	CALCOCO1	2830.824857	0.716549648	0.000658962
ENSG00000235238	SUMO2P1	9.988387538	0.71631998	0.616316275
ENSG00000162746	FCRLB	9.767982789	0.715987765	0.585438019
ENSG00000142961	MOB3C	59.45652862	0.715967881	0.246903124
ENSG00000184163	C1QTNF12	19.82519054	0.715735907	0.412575573
ENSG00000147576	ADHFE1	110.8547504	0.715726347	0.06401267
ENSG00000262089	AC040977.1	9.097361047	0.715440784	0.601111127
ENSG00000244300	GATA2-AS1	666.2045459	0.715406549	0.00490167
ENSG00000055950	MRPL43	1528.121497	0.715316569	0.003223925
ENSG00000173465	ZNRD2	1512.636344	0.71528197	0.000289691
ENSG00000127993	RBM48	504.7398352	0.715213422	0.02354671
ENSG00000213943	KRT18P17	28.30254758	0.715130687	0.416213995
ENSG00000174744	BRMS1	2816.71235	0.71496088	0.017946811
ENSG00000167377	ZNF23	11.79660293	0.714874297	0.524956679
ENSG00000239857	GET4	788.7326669	0.714689276	0.01530638
ENSG00000206885	SNORA75	9.48607831	0.714487353	0.550926098
ENSG00000109062	SLC9A3R1	4432.698076	0.71433035	0.004426031
ENSG00000267858	MZF1-AS1	36.70454148	0.714013696	0.327672718
ENSG00000196696	AC009022.1	192.7597841	0.713945573	0.052071215
ENSG00000204947	ZNF425	74.13398457	0.713122347	0.235221554

ENSG00000105617	LENG1	375.219563	0.713043757	0.037317974
ENSG00000257605	AC073611.1	12.37873088	0.712821976	0.531816272
ENSG00000264808	AC068025.1	4.866523898	0.71264256	0.729964287
ENSG00000156858	PRR14	954.9608099	0.712633762	0.001587296
ENSG00000233885	YEATS2-AS1	7.960675817	0.712498359	0.70361144
ENSG00000187848	P2RX2	25.09897109	0.712439267	0.373594814
ENSG00000116044	NFE2L2	3010.381934	0.712140928	0.000828518
ENSG00000248487	ABHD14A	22.22326971	0.71185622	0.384178672
ENSG00000166170	BAG5	2388.146075	0.711582368	0.000168925
ENSG00000263956	NBPF11	368.7483438	0.711544297	0.002966298
ENSG00000242294	STAG3L5P	282.9013179	0.711126551	0.071801319
ENSG00000176476	SGF29	897.4278224	0.711022764	0.005785464
ENSG00000228554	AC004837.2	52.70388357	0.710607232	0.421933058
ENSG00000108469	RECQL5	1115.911306	0.710126674	0.015548181
ENSG00000258081	AL110292.1	31.49854466	0.709989087	0.342388761
ENSG00000260735	AC139256.1	4.903420966	0.709926864	0.728971367
ENSG00000124614	RPS10	33.25207338	0.709605847	0.357076328
ENSG00000101337	TM9SF4	4817.612696	0.709496823	0.003706828
ENSG00000204438	GPANK1	2168.33594	0.70944295	0.002846845
ENSG00000281406	BLACAT1	199.9788265	0.709438726	0.177208395
ENSG00000216866	RPS2P55	39.76239139	0.70895542	0.261065496
ENSG00000007202	KIAA0100	10687.52433	0.708807165	0.00488279
ENSG00000167799	NUDT8	102.7618779	0.708772571	0.101523142
ENSG00000174796	THAP6	186.6034057	0.707984186	0.030916451

ENSG00000113448	PDE4D	1355.511599	0.707942056	0.000945483
ENSG00000171169	NAIF1	505.6363495	0.707736924	0.00292971
ENSG00000167612	ANKRD33	110.7043773	0.70763846	0.212153411
ENSG00000109534	GAR1	1105.55533	0.707484663	0.000808159
ENSG00000258927	AL133467.2	19.83660384	0.707459602	0.402300017
ENSG00000174028	FAM3C2	157.1396896	0.707123029	0.019369657
ENSG00000100221	JOSD1	4735.220008	0.707026472	0.003809623
ENSG00000108587	GOSR1	1954.725164	0.706974433	0.000439088
ENSG00000285899	AL023574.1	12.1190911	0.706730402	0.53696529
ENSG00000204839	MROH6	56.89755079	0.706582858	0.263786571
ENSG00000176386	CDC26	487.3236235	0.706547319	0.002119193
ENSG00000181350	LRRC75A	64.73606662	0.706374206	0.186457524
ENSG00000197562	RAB40C	3076.686699	0.706101382	0.00184821
ENSG00000167395	ZNF646	1039.760135	0.706087011	0.002835133
ENSG00000165752	STK32C	126.6831563	0.706077929	0.044505447
ENSG00000084710	EFR3B	522.5785423	0.705378361	0.13547179
ENSG00000227354	RBM26-AS1	19.96644785	0.705213835	0.402377063
ENSG00000134193	REG4	16.47450088	0.70480705	0.452318153
ENSG00000269564	AC008753.2	4.511683872	0.704608114	0.792729005
ENSG00000090615	GOLGA3	5436.541577	0.70457157	0.01590023
ENSG00000100652	SLC10A1	9.688644993	0.704532001	0.575091984
ENSG00000177548	RABEP2	644.813529	0.704438744	0.002190191
ENSG00000230550	ERLNC1	6.566012106	0.704257273	0.713880088
ENSG00000260942	CAPN10-DT	47.81842841	0.704239087	0.244563074

ENSG00000185220	PGBD2	591.516309	0.704130802	0.019536384
ENSG00000133895	MEN1	2727.158282	0.704068471	0.000121631
ENSG00000134864	GGACT	133.1056886	0.704024011	0.05598759
ENSG00000159905	ZNF221	46.51054755	0.703837952	0.222038731
ENSG00000185803	SLC52A2	1806.157188	0.703597241	0.000526506
ENSG00000225760	LINC00431	42.17722852	0.703255823	0.215518286
ENSG00000237126	AC073254.1	7.305515584	0.702975666	0.717804191
ENSG00000095059	DHPS	110.0097827	0.702707357	0.200152949
ENSG00000067992	PDK3	171.797709	0.702090293	0.246770358
ENSG00000196689	TRPV1	35.69283951	0.702053678	0.395322852
ENSG00000253669	GASAL1	16.19701489	0.701915635	0.558774311
ENSG00000258315	C17orf49	5.783153658	0.701888818	0.722581537
ENSG00000161395	PGAP3	517.0818808	0.701781556	0.011903723
ENSG00000144848	ATG3	4010.389847	0.701537847	0.00598047
ENSG00000198814	GK	4.804677825	0.701325715	0.749650759
ENSG00000236058	RPL17P36	6.357221721	0.701228302	0.767993962
ENSG00000167967	E4F1	1689.986903	0.700968507	0.000182657
ENSG00000131931	THAP1	141.4306277	0.700914963	0.069298154
ENSG00000273841	TAF9	2347.820533	0.700647939	0.008404682
ENSG00000246067	RAB30-DT	124.5665935	0.700228703	0.066224964
ENSG00000275734	AC010538.1	5.647196876	0.70017572	0.697936605
ENSG00000198855	FICD	2055.038762	0.700131677	0.000951571
ENSG00000177045	SIX5	138.7093783	0.699889271	0.136758505
ENSG00000283654	LMLN2	10.4599628	0.699806173	0.540222653

ENSG00000260903	XKR7	8.494923037	0.699620273	0.581812285
ENSG00000272631	AC067750.1	7.785423695	0.699593119	0.605469851
ENSG00000225329	LHFPL3-AS2	9.496582586	0.699512444	0.61646364
ENSG00000103145	HCFC1R1	546.4315192	0.699347837	0.002688144
ENSG00000238058	AL355574.1	8.71665699	0.699330498	0.608451626
ENSG00000254827	SLC22A18AS	7.274953854	0.69895634	0.718541739
ENSG00000161048	NAPEPLD	125.8414193	0.698804538	0.071366689
ENSG00000237296	SMG1P1	20.48937305	0.698700331	0.419226659
ENSG00000139668	WDFY2	702.1587937	0.697825595	0.002899429
ENSG00000274070	CASTOR2	4500.439052	0.69761369	0.019368853
ENSG00000125485	DDX31	771.9822738	0.697606558	0.005023858
ENSG00000104142	VPS18	2023.230922	0.697346641	0.001444057
ENSG00000131115	ZNF227	332.0260077	0.697106535	0.009394025
ENSG00000159079	CFAP298	438.4263608	0.697086487	0.031390246
ENSG00000117877	CD3EAP	213.813591	0.696891221	0.106662529
ENSG00000282943	AC004784.1	181.9652951	0.696870522	0.154396045
ENSG00000013306	SLC25A39	5708.841768	0.696588391	0.000458985
ENSG00000162148	PPP1R32	87.62809436	0.696498005	0.219960693
ENSG00000143882	ATP6V1C2	5714.869105	0.696412477	0.011276454
ENSG00000232648	AC107214.1	12.70032948	0.69620325	0.518081608
ENSG00000198729	PPP1R14C	201.0836497	0.696109639	0.142833057
ENSG00000244187	TMEM141	280.6646067	0.695969092	0.105395961
ENSG00000182676	PPP1R27	6.463196697	0.695964485	0.654658035
ENSG00000205534	SMG1P2	54.15909637	0.695607333	0.157836694

ENSG00000167193	CRK	5104.926931	0.695484463	0.000913752
ENSG00000208036	MIR106B	8.217924574	0.695468581	0.63631382
ENSG00000168067	MAP4K2	2072.679248	0.695399149	0.011215017
ENSG00000254266	PKIA-AS1	6.157971703	0.695272875	0.748286414
ENSG00000287837	AL590064.1	64.13990821	0.695062719	0.183841365
ENSG00000185710	SMG1P4	6.431140131	0.695002975	0.702769475
ENSG00000206503	HLA-A	308.1332039	0.694532393	0.018253902
ENSG00000196653	ZNF502	8.619978919	0.694311534	0.631398417
ENSG00000198804	MT-CO1	322507.5522	0.694220686	0.046243955
ENSG00000269427	AC024075.3	11.76588588	0.693974917	0.53664176
ENSG00000105664	COMP	4.527860074	0.69387029	0.787777363
ENSG00000110536	PTPMT1	98.62522366	0.693750994	0.076991751
ENSG00000146066	HIGD2A	488.5862764	0.693545878	0.008614186
ENSG00000259281	LINGO1-AS2	9.778600251	0.693529797	0.605242698
ENSG00000185838	GNB1L	397.1272279	0.693197161	0.066867375
ENSG00000279392	AL158801.5	16.10379994	0.692988735	0.45190491
ENSG00000213949	ITGA1	8178.601055	0.692848456	0.009040907
ENSG00000001631	KRIT1	252.3593649	0.692176752	0.010794995
ENSG00000275212	LINC02826	10.9470833	0.691978004	0.582613321
ENSG00000248278	SUMO2P17	8.318161613	0.691862426	0.642526596
ENSG00000204653	ASPDH	15.88372839	0.691331675	0.4681867
ENSG00000129559	NEDD8	1020.885482	0.691241397	0.003075325
ENSG00000281332	LINC00997	17.10338283	0.691138802	0.497449957
ENSG00000141644	MBD1	3108.441354	0.690950572	0.000529511

ENSG00000213380	COG8	234.4536309	0.690919826	0.033218599
ENSG00000165376	CLDN2	16.21600443	0.690904984	0.456253678
ENSG00000243708	PLA2G4B	14.21110991	0.690603517	0.501161797
ENSG00000166133	RPUSD2	738.1818516	0.690398617	0.001749713
ENSG00000010165	EEF1AKNMT	1790.013012	0.690272182	0.000328808
ENSG00000228801	AC064807.1	39.0878825	0.689509749	0.255269072
ENSG00000139233	LLPH	427.7305321	0.689192493	0.011075125
ENSG00000100116	GCAT	1251.995241	0.689185983	0.048013921
ENSG00000197858	GPAA1	4335.139296	0.688861852	0.005761226
ENSG00000115568	ZNF142	564.980262	0.688611278	0.018136236
ENSG00000133115	STOML3	7.074753955	0.68859847	0.731681411
ENSG00000153066	TXNDC11	3388.02342	0.68858754	0.005374515
ENSG00000167749	KLK4	6.99398568	0.688169586	0.732628585
ENSG00000238072	AC009244.1	15.3618866	0.688153205	0.51597956
ENSG00000231889	TRAF3IP2-AS1	36.12329775	0.687689158	0.259226803
ENSG00000158955	WNT9B	6.569047399	0.687438095	0.711729924
ENSG00000118418	HMGN3	1153.805726	0.687380752	0.006880945
ENSG00000182057	OGFRP1	25.06702336	0.687277509	0.522197789
ENSG00000261542	AC011978.2	10.34547272	0.686329227	0.689392831
ENSG00000145191	EIF2B5	3172.77942	0.685834542	0.002694053
ENSG00000171223	JUNB	2268.947132	0.68537721	0.005440427
ENSG00000105669	COPE	4842.725433	0.685179056	0.000498787
ENSG00000100865	CINP	1409.661087	0.684783443	0.00371877
ENSG00000106541	AGR2	125.7874437	0.684734573	0.045860183

ENSG00000224086	AC245452.1	39.68959871	0.684658869	0.277270179
ENSG00000105732	ZNF574	677.1505183	0.684488342	0.029571003
ENSG00000105341	DMAC2	1686.918334	0.684302572	0.000768265
ENSG00000213753	CENPBD1P1	423.5140123	0.684274608	0.009127835
ENSG00000156469	MTERF3	589.244886	0.684269697	0.011588658
ENSG00000204568	MRPS18B	3413.532754	0.684118635	0.00207193
ENSG00000068001	HYAL2	870.7897077	0.683894027	0.000454069
ENSG00000124006	OBSL1	12303.01194	0.683744854	0.001896513
ENSG00000078808	SDF4	7917.049291	0.683675572	0.000583915
ENSG00000286169	AHRR	18.03265997	0.68365094	0.539840043
ENSG00000138495	COX17	506.5137628	0.683447534	0.005097512
ENSG00000163958	ZDHHC19	10.11445034	0.683416795	0.591462683
ENSG00000165512	ZNF22	225.1978707	0.68340293	0.056604129
ENSG00000033050	ABCF2	523.8269561	0.683319887	0.035588847
ENSG00000101213	PTK6	9.992280635	0.683275964	0.575703395
ENSG00000179909	ZNF154	7.209659235	0.683263968	0.685403988
ENSG00000168591	TMUB2	2328.556308	0.683220347	0.001207062
ENSG00000141401	IMPA2	1855.608317	0.682845224	0.052659623
ENSG00000147124	ZNF41	143.0367757	0.682107359	0.05335148
ENSG00000079739	PGM1	2291.777617	0.681982609	0.020344396
ENSG00000177606	JUN	169.6467776	0.681935208	0.125348759
ENSG00000187534	PRR13P5	87.37880753	0.681778803	0.143938037
ENSG00000076685	NT5C2	1658.387362	0.681664964	0.007074816
ENSG00000105619	TFPT	305.5403094	0.681659351	0.030182413

ENSG00000230896	AL604028.1	8.744766175	0.681483	0.60780407
ENSG00000277050	AL122125.1	22.02452483	0.681477774	0.423381708
ENSG00000149091	DGKZ	7195.561379	0.681289103	0.000126961
ENSG00000263072	ZNF213-AS1	91.91732216	0.681040361	0.104958041
ENSG00000204049	AL391421.1	67.17182549	0.680993938	0.404830248
ENSG00000159063	ALG8	2591.940584	0.680651165	0.000828048
ENSG00000136560	TANK	2617.496698	0.680423137	0.001194064
ENSG00000286010	AC108925.1	44.27234457	0.680358353	0.200318525
ENSG00000144659	SLC25A38	857.4930417	0.680329047	0.02828241
ENSG00000137494	ANKRD42	186.6848626	0.679910389	0.068085995
ENSG00000176087	SLC35A4	2755.485932	0.679498288	0.000159177
ENSG00000120616	EPC1	286.9004588	0.679139989	0.013882258
ENSG00000124444	ZNF576	148.4192838	0.67893642	0.057669988
ENSG00000105146	AURKC	18.61699191	0.678793504	0.528347974
ENSG00000142920	AZIN2	6.718226679	0.678587025	0.667551735
ENSG00000179598	PLD6	21.26040892	0.678496697	0.414855276
ENSG00000197405	C5AR1	32.46983979	0.678404902	0.373611082
ENSG00000187994	RINL	229.4009069	0.678121078	0.056713325
ENSG00000175505	CLCF1	14.93405675	0.677989637	0.499065278
ENSG00000100292	HMOX1	41988.03358	0.677858465	0.006581179
ENSG00000136011	STAB2	11.40992589	0.677767633	0.619512224
ENSG00000155760	FZD7	347.2712509	0.677739965	0.020980216
ENSG00000109971	HSPA8	56159.65468	0.677589547	0.032790158
ENSG00000186130	ZBTB6	205.0818948	0.677480837	0.021323562

ENSG00000101546	RBFA	497.2922758	0.677329927	0.006028832
ENSG00000235863	B3GALT4	382.0622054	0.677206751	0.035714835
ENSG00000171202	TMEM126A	911.9933201	0.677144177	0.017244625
ENSG00000135924	DNAJB2	2149.657465	0.676901837	0.000867815
ENSG00000236871	LINC00106	32.87846123	0.676847401	0.28233677
ENSG00000228917	AL591806.1	8.872144004	0.676845337	0.647755233
ENSG00000119977	TCTN3	2023.102906	0.676845282	0.001467475
ENSG00000205482	SPDYE18	4.557883662	0.676605033	0.747017887
ENSG00000235453	SMIM27	16.65781686	0.676597084	0.480226484
ENSG00000125037	EMC3	2612.422152	0.676527286	0.000786294
ENSG00000266010	GATA6-AS1	24.24630005	0.676295189	0.443733329
ENSG00000177830	CHID1	3668.186666	0.676030652	0.004300492
ENSG00000269984	AC078795.1	13.41017271	0.675989283	0.6042975
ENSG00000229417	NPM1P25	4.964629394	0.675981666	0.779012685
ENSG00000047056	WDR37	858.3707578	0.675932104	0.0164217
ENSG00000215190	LINC00680	90.30032176	0.675741466	0.174697138
ENSG00000275765	AC091982.3	10.87708221	0.675621734	0.624518404
ENSG00000233030	AC243772.2	32.8570269	0.675495383	0.268517661
ENSG00000215012	RTL10	1235.214204	0.675447862	0.061877236
ENSG00000224790	AP000704.1	10.09828383	0.675428478	0.591156658
ENSG00000130821	SLC6A8	6235.515224	0.675279888	0.006863269
ENSG00000087460	GNAS	59938.87306	0.675181396	0.000940157
ENSG00000105397	TYK2	2830.106297	0.674896964	0.007554674
ENSG00000186111	PIP5K1C	12099.21264	0.674638221	0.002400549

ENSG00000179476	C14orf28	45.17109673	0.674079876	0.327620665
ENSG00000116898	MRPS15	6130.584562	0.67396814	0.006544946
ENSG00000124596	OARD1	996.7791568	0.673770796	0.024853184
ENSG00000231208	ZBTB46-AS1	28.04157617	0.673215064	0.387291567
ENSG00000188554	NBR1	2776.411363	0.673189436	0.040881407
ENSG00000175592	FOSL1	2404.209011	0.673168554	0.014883974
ENSG00000198121	LPAR1	7.120586009	0.672627763	0.635745419
ENSG00000054965	FAM168A	1634.274177	0.6726053	0.04045604
ENSG00000081721	DUSP12	689.3613078	0.672604089	0.00080604
ENSG00000259459	LINC02568	4.430356396	0.672449686	0.768674878
ENSG00000205269	TMEM170B	223.1872157	0.672253468	0.016032433
ENSG00000247626	MARS2	172.9868846	0.672208384	0.178357884
ENSG00000146205	ANO7	25.79444717	0.672077783	0.538427987
ENSG00000122490	SLC66A2	730.8764937	0.671960621	0.010767454
ENSG00000160999	SH2B2	2842.380843	0.671927484	0.00525385
ENSG00000161618	ALDH16A1	770.162751	0.671850546	0.038403327
ENSG00000110921	MVK	1426.227407	0.671687795	0.022468591
ENSG00000112787	FBRSL1	2604.459315	0.671613906	0.002654504
ENSG00000178031	ADAMTSL1	6.59480316	0.671595063	0.713138207
ENSG00000233622	CYP2T1P	11.2486272	0.671589987	0.535267613
ENSG00000122729	ACO1	1992.563755	0.671450762	0.038662289
ENSG00000108474	PIGL	418.2018779	0.670683748	0.023652099
ENSG00000171067	C11orf24	1648.8719	0.670682226	0.003036109
ENSG00000254635	WAC-AS1	230.5745602	0.670641762	0.035093432

ENSG00000105668	UPK1A	20.80832353	0.670555653	0.528347974
ENSG00000110218	PANX1	1362.154059	0.670496225	0.002505207
ENSG00000243176	AC092944.1	30.77217546	0.670361364	0.321884977
ENSG00000211459	MT-RNR1	15950.9578	0.670209734	0.069374116
ENSG00000179886	TIGD5	59.90054339	0.669624203	0.288917744
ENSG00000258738	AL121603.2	16.07977087	0.669128636	0.4684421
ENSG00000103187	COTL1	15378.58729	0.669093393	0.002435755
ENSG00000134363	FST	438.4145272	0.668952858	0.053869781
ENSG00000184470	TXNRD2	498.6192358	0.668700969	0.002166703
ENSG00000143153	ATP1B1	4455.33841	0.66856812	0.0082087
ENSG00000188981	MSANTD1	5.398486759	0.667904127	0.72011932
ENSG00000100815	TRIP11	2749.079699	0.667694706	0.000633891
ENSG00000124702	KLHDC3	5624.587707	0.667486355	0.002147647
ENSG00000258384	AC068831.1	7.074458047	0.667409987	0.707335006
ENSG00000214456	PLIN5	103.5792416	0.667387036	0.324776235
ENSG00000142327	RNPEPL1	3727.163004	0.667353863	0.000500738
ENSG00000035115	SH3YL1	3216.185786	0.667345666	0.018381286
ENSG00000168397	ATG4B	3325.51183	0.667344185	0.002071912
ENSG00000048405	ZNF800	441.7291	0.667297949	0.005945875
ENSG00000149295	DRD2	61.77788388	0.667248645	0.326054929
ENSG00000162889	MAPKAPK2	3447.61833	0.666917672	0.000495508
ENSG00000183604	SMG1P5	22.21310232	0.666482624	0.410757129
ENSG00000134077	THUMPD3	1100.557484	0.665852455	0.001525127
ENSG00000167555	ZNF528	190.700023	0.665566117	0.047321101

ENSG00000160799	CCDC12	1960.05978	0.664828989	0.000566298
ENSG00000269352	PTOV1-AS2	62.07560789	0.664681941	0.266378459
ENSG00000147408	CSGALNACT1	3454.359848	0.664623828	0.004572247
ENSG00000173621	LRFN4	6.664468708	0.664559926	0.653470936
ENSG00000204514	ZNF814	198.2762512	0.664490462	0.062093068
ENSG00000237862	Z94160.1	129.0169106	0.664426926	0.30750657
ENSG00000234771	SLC25A25-AS1	95.86974765	0.664357275	0.138638376
ENSG00000102901	CENPT	2118.043655	0.664269564	0.017619259
ENSG00000167468	GPX4	14561.15968	0.664190164	0.000904937
ENSG00000172081	MOB3A	3088.023525	0.664178582	0.009649279
ENSG00000132323	ILKAP	975.2011217	0.664141625	0.003222831
ENSG00000162551	ALPL	1891.467701	0.664057906	0.098521699
ENSG00000105726	ATP13A1	3514.579989	0.663878768	0.001139726
ENSG00000128699	ORMDL1	1920.75946	0.663216264	0.002941661
ENSG00000161956	SENP3	656.9414089	0.663011088	0.006910892
ENSG00000183155	RABIF	951.7773551	0.66279332	0.002114174
ENSG00000221994	ZNF630	22.32782831	0.662614371	0.46605961
ENSG00000060566	CREB3L3	3.819238772	0.662602306	0.787123094
ENSG00000196581	AJAP1	47.72904969	0.662542635	0.240984285
ENSG00000140519	RHCG	10.15942918	0.662187633	0.646996599
ENSG00000123989	CHPF	15068.46101	0.662184004	0.001431709
ENSG00000143793	C1orf35	1079.653848	0.6619474	0.001822703
ENSG00000281501	SEPSECS-AS1	18.32897341	0.661663995	0.480158537
ENSG00000166548	TK2	180.9397029	0.661636299	0.071143263

ENSG00000242221	PSG2	25000.36244	0.661372013	0.004824001
ENSG00000167524	RSKR	80.43514038	0.661359862	0.113047682
ENSG00000115694	STK25	3153.80731	0.661180491	0.000367553
ENSG00000136866	ZFP37	14.69885505	0.661109918	0.489348569
ENSG00000181016	LSMEM1	38.84351756	0.661015972	0.304435009
ENSG00000178988	MRFAP1L1	2691.065832	0.660980007	0.000275485
ENSG00000196338	NLGN3	114.6752205	0.660862198	0.070653888
ENSG00000164338	UTP15	1025.529345	0.660789692	0.016339177
ENSG00000141699	RETREG3	3780.711641	0.660652669	0.001444862
ENSG00000135436	FAM186B	3.485670822	0.660621956	0.790201889
ENSG00000159958	TNFRSF13C	5.479886677	0.660562168	0.74284367
ENSG00000112110	MRPL18	1568.09001	0.660303459	0.001211497
ENSG00000129562	DAD1	5589.222466	0.66014798	0.000398551
ENSG00000178449	COX14	597.6114782	0.660104184	0.015515191
ENSG00000004478	FKBP4	8833.578535	0.659930874	0.000235475
ENSG00000070269	TMEM260	218.8025084	0.65981076	0.044428138
ENSG00000172296	SPTLC3	1233.67959	0.659555602	0.012880278
ENSG00000170265	ZNF282	1333.328875	0.659549739	0.001367857
ENSG00000160803	UBQLN4	3676.106554	0.659369907	0.003985943
ENSG00000248866	USP46-AS1	10.91849965	0.659189624	0.629202591
ENSG00000228925	AC016722.2	21.46689293	0.658919991	0.404975461
ENSG00000184983	NDUFA6	5322.036248	0.65884517	0.002529351
ENSG00000198929	NOS1AP	11.32826582	0.658819508	0.614132478
ENSG00000106258	CYP3A5	61.59528325	0.658226749	0.210842951

ENSG00000204256	BRD2	15493.25256	0.658158846	0.011196034
ENSG00000151131	C12orf45	682.2333092	0.657775516	0.018321512
ENSG00000108826	MRPL27	4638.88436	0.657621089	0.003119519
ENSG00000166997	CNPY4	369.1515437	0.657465492	0.012380992
ENSG00000184792	OSBP2	19.53923532	0.657448545	0.445264516
ENSG00000106628	POLD2	4204.857455	0.657319601	0.002502103
ENSG00000161999	JMJD8	661.0041264	0.657214292	0.002899693
ENSG00000233913	RPL10P9	49.62902737	0.657212304	0.214654056
ENSG00000071246	VASH1	9.263000605	0.657139252	0.5899916
ENSG00000136003	ISCU	5232.322855	0.657099601	0.000240236
ENSG00000180730	SHISA2	29.9244256	0.657077448	0.339060699
ENSG00000182325	FBXL6	268.9059502	0.657034026	0.035411344
ENSG00000233058	LINC00884	72.14717808	0.657008444	0.268875817
ENSG00000104825	NFKBIB	1820.245515	0.656688804	0.007694322
ENSG00000143556	S100A7	23.48726904	0.656564613	0.391933865
ENSG00000273888	FRMD6-AS1	6.93118783	0.656475714	0.699904283
ENSG00000176933	TOB2P1	13.91044325	0.656461003	0.627220585
ENSG00000169957	ZNF768	526.774309	0.656188761	0.006345008
ENSG00000174842	GLMN	824.7765359	0.656071374	0.009634622
ENSG00000204620	AC115618.1	13.91562033	0.656036276	0.536394462
ENSG00000213025	COX20P1	5.803365758	0.655982472	0.737051919
ENSG00000275888	AC132872.3	20.80237082	0.655657943	0.524956679
ENSG00000103197	TSC2	2896.892478	0.655428982	0.005074398
ENSG00000196387	ZNF140	378.9358007	0.655396943	0.008796978

ENSG00000238198	LRIG2-DT	4.132462126	0.655076817	0.795081215
ENSG00000115266	APC2	83.00516951	0.655047933	0.124565684
ENSG00000013561	RNF14	2712.445508	0.655036045	0.006159362
ENSG00000257218	GATC	819.1953663	0.65501214	0.003857064
ENSG00000245522	LINC02709	51.02843739	0.654574011	0.229896122
ENSG00000091106	NLRC4	88.52948775	0.654569915	0.09394875
ENSG00000269867	AC010326.3	70.18878423	0.654343742	0.144279045
ENSG00000125652	ALKBH7	695.8678485	0.653809107	0.011826211
ENSG00000141873	SLC39A3	570.0198313	0.653806739	0.003824972
ENSG00000140265	ZSCAN29	802.0390476	0.653742673	0.016970771
ENSG00000173757	STAT5B	6317.148026	0.653683919	0.008991106
ENSG00000110876	SELPLG	74.02695665	0.653362588	0.370253635
ENSG00000105248	YJU2	925.4360338	0.652921768	0.000662089
ENSG00000125755	SYMPK	7591.139318	0.652580677	0.008631959
ENSG00000143436	MRPL9	1236.104579	0.652373949	0.008343857
ENSG00000063854	HAGH	1218.230097	0.652262426	0.002373403
ENSG00000116809	ZBTB17	1448.378254	0.652201748	0.019390901
ENSG00000099622	CIRBP	4111.197224	0.652174847	0.028962716
ENSG00000174928	C3orf33	15.36316152	0.652073052	0.531970719
ENSG00000135469	COQ10A	100.6183941	0.652027364	0.138482014
ENSG00000277406	SEC22B4P	31.28995927	0.65196382	0.310241856
ENSG00000103067	ESRP2	6574.181636	0.651956412	0.001371919
ENSG00000159173	TNNI1	5.094908479	0.651907947	0.795712365
ENSG00000185236	RAB11B	2932.835275	0.651211251	0.001007011

ENSG00000103042	SLC38A7	2480.455225	0.651204479	0.000322824
ENSG00000103168	TAF1C	1139.131119	0.651175585	0.005615772
ENSG00000196407	THEM5	821.2762833	0.650525021	0.019086365
ENSG00000102898	NUTF2	6823.119263	0.650512668	0.000190831
ENSG00000141664	ZCCHC2	726.4432992	0.65048085	0.002364309
ENSG00000143195	ILDR2	26.51486823	0.650345796	0.467835191
ENSG00000111679	PTPN6	1166.685386	0.649711082	0.007783412
ENSG00000225470	JPX	13.08671269	0.649619669	0.597264546
ENSG00000273297	AC009275.1	47.81879591	0.649608572	0.40030185
ENSG00000168096	ANKS3	293.7118246	0.649047275	0.037178542
ENSG00000255135	AP002360.1	183.2711572	0.648938469	0.058464846
ENSG00000100288	CHKB	6.335698575	0.648421298	0.666160791
ENSG00000153982	GDPD1	218.832215	0.64835115	0.055170876
ENSG00000102921	N4BP1	5062.84646	0.648178177	0.003232405
ENSG00000264425	MIR4653	13.76501672	0.648176556	0.542360601
ENSG00000198324	PHETA1	210.4622223	0.647882378	0.023011967
ENSG00000168090	COPS6	4063.757856	0.647788658	0.001037659
ENSG00000277383	AC010331.1	5.397572348	0.647725494	0.70361144
ENSG00000237350	CDC42P6	33.41814083	0.647672832	0.302947425
ENSG00000142166	IFNAR1	714.9472094	0.647656641	0.004535053
ENSG00000183011	NAA38	791.6923603	0.647236207	0.002383906
ENSG00000136156	ITM2B	15948.47252	0.64702006	0.003590775
ENSG00000233708	AL512353.2	5.298826766	0.646816191	0.801859137
ENSG00000110066	KMT5B	1840.255329	0.646604549	0.006644179

ENSG00000123395	ATG101	3295.170756	0.646460144	0.001207062
ENSG00000125952	MAX	1380.404917	0.646420803	0.0392657
ENSG00000177173	NAP1L4P1	10.08888896	0.646418969	0.622303312
ENSG00000167842	MIS12	730.9105875	0.646369605	0.046649416
ENSG00000102100	SLC35A2	2327.795265	0.646180357	0.002266501
ENSG00000108219	TSPAN14	7810.025922	0.645630761	0.000551114
ENSG00000196154	S100A4	353.04619	0.645618913	0.012013433
ENSG00000116918	TSNAX	980.3649712	0.645489678	0.018238467
ENSG00000118640	VAMP8	3635.935458	0.64518797	0.003461508
ENSG00000176054	RPL23P2	44.46307356	0.644560708	0.415982476
ENSG00000285979	AC009090.6	16.72002283	0.644535008	0.517661683
ENSG00000118985	ELL2	3032.803274	0.644201706	0.008812659
ENSG00000002822	MAD1L1	5.005215522	0.644171164	0.79899734
ENSG00000170412	GPRC5C	2370.645365	0.644103094	0.014287785
ENSG00000074842	MYDGF	9760.753726	0.644017519	0.004168367
ENSG00000229644	NAMPTP1	9.651198798	0.643977853	0.60715634
ENSG00000113716	HMGXB3	3736.939273	0.643816513	0.001273302
ENSG00000171861	MRM3	815.1789459	0.643584484	0.00617595
ENSG00000174307	PHLDA3	6455.039573	0.643505555	0.021123718
ENSG00000134590	RTL8C	1531.9148	0.643469324	0.009234352
ENSG00000166169	POLL	747.2744301	0.64344804	0.034630109
ENSG00000099949	LZTR1	258.9783911	0.642914441	0.103226912
ENSG00000259685	IDH2-DT	150.3262484	0.642540781	0.331569645
ENSG00000256678	AC025423.3	91.71524096	0.642238993	0.363769578

ENSG00000143198	MGST3	8251.811099	0.642213076	0.011235567
ENSG00000117448	AKR1A1	4006.594129	0.642108372	0.037265614
ENSG00000140564	FURIN	34944.23447	0.64195608	0.000865986
ENSG00000137871	ZNF280D	75.08543185	0.641894235	0.210054445
ENSG00000071994	PDCD2	1262.383348	0.641746487	0.023170234
ENSG00000197070	ARRDC1	827.735396	0.641266261	0.00262684
ENSG00000108312	UBTF	2271.728923	0.641145469	0.011461569
ENSG00000204220	PFDN6	2918.594676	0.640934875	0.00478738
ENSG00000233098	CCDC144NL-AS1	34.96636361	0.640838492	0.467993152
ENSG00000178952	TUFM	14095.36631	0.640407478	0.000450073
ENSG00000198000	NOL8	1395.96696	0.640225214	0.012315214
ENSG00000133169	BEX1	12.16092854	0.640195792	0.596827884
ENSG00000237004	ZNRF2P1	30.44196839	0.640064203	0.337361358
ENSG00000267353	AC020928.2	6.440992296	0.640010907	0.739599863
ENSG00000100528	CNIH1	1909.097924	0.639309527	0.002043574
ENSG00000244560	AC004890.2	18.88497563	0.639195261	0.552425088
ENSG00000233382	NKAPP1	11.64861802	0.639072382	0.596951349
ENSG00000235374	SSR4P1	7.637777763	0.638889869	0.677442773
ENSG00000203952	CCDC160	7.686034758	0.638469086	0.662919525
ENSG00000173327	MAP3K11	1637.872061	0.638412136	0.007656367
ENSG00000197863	ZNF790	92.84936862	0.637983052	0.10377212
ENSG00000172889	EGFL7	1646.449887	0.637948898	0.001343327
ENSG00000139718	SETD1B	1809.01576	0.637711093	0.009253165
ENSG00000165714	BORCS5	162.1362135	0.637583688	0.05766077

ENSG00000269335	IKBKG	360.9535465	0.637534129	0.017874468
ENSG00000230138	LINC02812	12.10391126	0.637275308	0.591752967
ENSG00000175467	SART1	6218.848118	0.637223556	0.00038383
ENSG00000169288	MRPL1	565.1982875	0.637183184	0.018797954
ENSG00000184588	PDE4B	3.11541767	0.636982818	0.848700844
ENSG00000232111	AC073488.1	11.118172	0.636952805	0.62434657
ENSG00000076043	REXO2	2370.03411	0.63611663	0.009698064
ENSG00000141934	PLPP2	19.88069773	0.635948171	0.526162059
ENSG00000136827	TOR1A	1841.493862	0.63584051	0.005060033
ENSG00000178381	ZFAND2A	740.7966668	0.635616686	0.016795789
ENSG00000185324	CDK10	1692.946398	0.635320928	0.012210672
ENSG00000165055	METTL2B	1040.544619	0.635186275	0.006876173
ENSG00000263465	SRSF8	1424.038931	0.635034744	0.002765912
ENSG00000176903	PNMA1	795.3796254	0.634961608	0.020556302
ENSG00000115145	STAM2	2466.526955	0.634958554	0.000470934
ENSG00000175048	ZDHHC14	1348.152755	0.634829316	0.009985038
ENSG00000284309	AL391650.2	15.40036124	0.634652353	0.538214022
ENSG00000180917	CMTR2	615.5525699	0.634648951	0.009237821
ENSG00000168175	MAPK1IP1L	4277.750373	0.63446012	0.001681858
ENSG00000154274	C4orf19	2790.125856	0.634135114	0.002069188
ENSG00000169629	RGPD8	135.6180927	0.63402591	0.053411959
ENSG00000132434	LANCL2	708.660131	0.633386237	0.041103679
ENSG00000102007	PLP2	206.9698436	0.633340758	0.037461375
ENSG00000003436	TFPI	10165.30851	0.632967814	0.11965617

ENSG00000120370	GORAB	183.1955171	0.632689109	0.059275635
ENSG00000223959	AFG3L1P	365.6968119	0.632551059	0.094093065
ENSG00000073584	SMARCE1	62.91560056	0.632445289	0.200636652
ENSG00000158286	RNF207	323.2851475	0.631628687	0.056190249
ENSG00000221944	TIGD1	46.59660032	0.631492028	0.350393812
ENSG00000168894	RNF181	2559.17881	0.631409745	0.012131432
ENSG00000151287	TEX30	1632.998982	0.631388113	0.011839274
ENSG00000103253	HAGHL	61.73519135	0.631378374	0.262963868
ENSG00000186792	HYAL3	315.1528049	0.631158922	0.018262119
ENSG00000105171	POP4	1480.896135	0.630869881	0.003065617
ENSG00000168003	SLC3A2	60578.82767	0.630363478	0.000957335
ENSG00000232956	SNHG15	610.2059554	0.63005097	0.03605014
ENSG00000176153	GPX2	19.37609904	0.629994366	0.463842606
ENSG00000179846	NKPD1	12.92303673	0.629993526	0.594111361
ENSG00000160404	TOR2A	352.3997524	0.629894892	0.011760724
ENSG00000157895	C12orf43	690.0193407	0.629758525	0.044926926
ENSG00000238227	TMEM250	1426.655991	0.629633259	0.009035391
ENSG00000233725	NRAD1	4.06345666	0.629434552	0.818583371
ENSG00000204316	MRPL38	52.79106025	0.629014046	0.252299321
ENSG00000157150	TIMP4	124.0186904	0.628985293	0.117676161
ENSG00000182923	CEP63	732.5647769	0.628844469	0.00411385
ENSG00000234616	JRK	445.5269205	0.62880936	0.01744916
ENSG00000134508	CABLES1	59.46897911	0.62859811	0.331611401
ENSG00000162391	FAM151A	7.556082551	0.628590816	0.686169477

ENSG00000260565	ERVK13-1	159.2173043	0.628560314	0.076902096
ENSG00000236756	DNAJC9-AS1	5.744801203	0.628500606	0.698719173
ENSG00000277149	TYW1B	102.825502	0.628263106	0.088319185
ENSG00000188493	C19orf54	457.320247	0.628106615	0.020053899
ENSG00000170473	PYM1	1513.837171	0.627965702	0.002278562
ENSG00000132591	ERAL1	3537.922643	0.627753745	0.005751272
ENSG00000008128	CDK11A	53.16403611	0.627747595	0.356569237
ENSG00000104549	SQLE	23589.95407	0.627589666	0.005768224
ENSG00000185024	BRF1	825.1980781	0.626975195	0.006634459
ENSG00000251396	LINC01301	11.27192471	0.626758934	0.650687382
ENSG00000274677	AC040169.3	16.46224074	0.62670698	0.612487355
ENSG00000250474	WBP1LP2	37.5710907	0.626682586	0.464635453
ENSG00000130304	SLC27A1	285.80468	0.626365665	0.090530026
ENSG00000055483	USP36	2750.226941	0.626217824	0.002523205
ENSG00000102890	ELMO3	1053.035557	0.626090438	0.017265513
ENSG00000224294	PINCR	73.36218695	0.62604269	0.183515148
ENSG00000140043	PTGR2	23.52862016	0.625793278	0.457715566
ENSG00000108960	MMD	1370.856497	0.625750001	0.052320643
ENSG00000062598	ELMO2	561.251251	0.625736468	0.003893794
ENSG00000015153	YAF2	339.9277229	0.625603868	0.029055084
ENSG00000146223	RPL7L1	6095.068531	0.625090873	0.001442956
ENSG00000188542	DUSP28	74.07970926	0.624991917	0.168559542
ENSG00000130349	MTRES1	494.8668217	0.624771186	0.052237409
ENSG00000055070	SZRD1	5335.548828	0.624731231	0.001435945

ENSG00000170270	GON7	286.9467836	0.62461832	0.023782473
ENSG00000109736	MFSD10	828.2368601	0.624471106	0.004551233
ENSG00000148356	LRSAM1	839.7280798	0.624392276	0.009788817
ENSG00000155666	KDM8	37.9163639	0.624027971	0.400063329
ENSG00000235316	DUSP8P5	27.45363418	0.623987565	0.457091699
ENSG00000186272	ZNF17	105.1399642	0.623460421	0.207416119
ENSG00000137492	THAP12	1780.686218	0.623342241	0.004049252
ENSG00000175768	TOMM5	15.04741465	0.623081733	0.621768782
ENSG00000156042	CFAP70	13.09196321	0.622838502	0.605828514
ENSG00000163795	ZNF513	1112.958324	0.622514786	0.009656814
ENSG00000008256	CYTH3	4946.345464	0.622120604	0.080241882
ENSG00000049449	RCN1	13547.9532	0.622030845	0.01036202
ENSG00000250764	AC025178.1	13.32466236	0.621832637	0.553521963
ENSG00000100359	SGSM3	27.87660223	0.621684587	0.439832728
ENSG00000108523	RNF167	4487.241075	0.621282757	0.000994827
ENSG00000119760	SUPT7L	2178.495479	0.621023161	0.012505831
ENSG00000107949	BCCIP	2887.606045	0.620971267	0.026362289
ENSG00000167182	SP2	1415.024112	0.620896052	0.001334347
ENSG00000040633	PHF23	2636.352076	0.620796766	0.032007952
ENSG00000178537	SLC25A20	132.1016474	0.620726384	0.175614947
ENSG00000134759	ELP2	3684.23618	0.620645643	0.0183714
ENSG00000145244	CORIN	28.10554829	0.620554508	0.46874178
ENSG00000104671	DCTN6	926.7687105	0.620403535	0.014353728
ENSG00000130724	CHMP2A	4573.612313	0.620071217	0.009033771

ENSG00000111802	TDP2	2060.105054	0.619534964	0.006880945
ENSG00000008130	NADK	7753.94473	0.619527123	0.033991721
ENSG00000169418	NPR1	104.8713984	0.619486194	0.389356708
ENSG00000103742	IGDCC4	45.77236841	0.619424938	0.407200052
ENSG00000156697	UTP14A	1645.757175	0.619333793	0.038010013
ENSG00000064490	RFXANK	879.6183415	0.619283394	0.011799874
ENSG00000132467	UTP3	1612.690236	0.618934452	0.003517773
ENSG00000188283	ZNF383	178.3431055	0.618923514	0.050368687
ENSG00000221955	SLC12A8	31.03822546	0.618872758	0.457756203
ENSG00000258408	NT5CP2	7.869523912	0.618329075	0.730813997
ENSG00000171951	SCG2	216.88088	0.618265665	0.040038812
ENSG00000177426	TGIF1	9113.402466	0.617943091	0.000438695
ENSG00000257122	RRN3P3	26.63883246	0.617822235	0.500647869
ENSG00000213115	AC104131.1	128.5864363	0.617777757	0.175073467
ENSG00000160688	FLAD1	3035.793808	0.617586824	0.000716941
ENSG00000116604	MEF2D	1445.607304	0.617102898	0.005085943
ENSG00000008838	MED24	3864.207683	0.617051061	0.002416162
ENSG00000146054	TRIM7	17.30354078	0.617050674	0.605588375
ENSG00000134531	EMP1	38.41179455	0.616836645	0.28859168
ENSG00000198663	C6orf89	2319.368526	0.616319107	0.013714054
ENSG00000277534	AC007996.1	57.48594135	0.61609495	0.222500671
ENSG00000113838	TBCCD1	570.2879751	0.615892108	0.010130919
ENSG00000136807	CDK9	2234.695546	0.615579185	0.001755545
ENSG00000184203	PPP1R2	932.0066733	0.615224066	0.064013128

ENSG00000139780	METTL21C	12.59336665	0.615065399	0.653470936
ENSG00000274460	AC092119.2	6.801226857	0.615001442	0.755781079
ENSG00000198931	APRT	2672.186232	0.614801794	0.005289601
ENSG00000104804	TULP2	12.19243087	0.61472629	0.611101735
ENSG00000132274	TRIM22	416.0634773	0.613664943	0.136767524
ENSG00000198842	DUSP27	231.0112991	0.613307176	0.138608065
ENSG00000237452	BHMG1	17.07519371	0.613156202	0.52286141
ENSG00000234694	AL139289.2	21.71955493	0.613112663	0.507416963
ENSG00000143319	ISG20L2	2871.389134	0.612901516	0.040041321
ENSG00000174206	C12orf66	169.7990667	0.612892506	0.126441046
ENSG00000213453	FTH1P3	7.127787293	0.612725213	0.72603212
ENSG00000136273	HUS1	1099.2167	0.61264909	0.003545038
ENSG00000125798	FOXA2	21.12870757	0.612473407	0.492157222
ENSG00000276712	MIR7111	17.6441823	0.612437993	0.511304194
ENSG00000245937	LINC01184	7.434037734	0.612313812	0.739697846
ENSG00000115539	PDCL3	547.5651898	0.612201574	0.054206204
ENSG00000274419	TBC1D3D	39.52434191	0.611996168	0.343605689
ENSG00000169020	ATP5ME	172.255946	0.611621434	0.04964366
ENSG00000260179	AL162741.1	5.973552363	0.611604979	0.731681411
ENSG00000214135	AC132008.2	391.8565903	0.611531171	0.014751961
ENSG00000010361	FUZ	180.849745	0.611445775	0.056906808
ENSG00000170632	ARMC10	1320.147878	0.611352372	0.009242832
ENSG00000247287	AL359220.1	638.9751342	0.611340626	0.047464937
ENSG00000041802	LSG1	2560.451978	0.610898199	0.009086666

ENSG00000160087	UBE2J2	2091.049723	0.610839796	0.00360331
ENSG00000196684	HSH2D	667.2797815	0.610413637	0.112583724
ENSG00000276903	HIST1H2AL	21.13242484	0.609874096	0.501035103
ENSG00000160752	FDPS	6564.917599	0.609551625	0.090119214
ENSG00000166111	SVOP	157.4398407	0.609295073	0.141330928
ENSG00000256745	AP002784.2	16.01298094	0.609265989	0.518504734
ENSG00000182841	RRP7BP	198.030075	0.609163538	0.078981835
ENSG00000164332	UBLCP1	435.0745094	0.609126393	0.059218823
ENSG00000144843	ADPRH	540.4978507	0.608595441	0.168768692
ENSG00000288253	AC010332.3	7.404114192	0.608360137	0.68549902
ENSG00000160211	G6PD	2280.737258	0.608332743	0.002829033
ENSG00000040531	CTNS	761.1006827	0.608085204	0.025614097
ENSG00000020129	NCDN	482.3418169	0.607892624	0.068306877
ENSG00000181915	ADO	534.4711361	0.607567877	0.007011194
ENSG00000196544	BORCS6	279.5639816	0.607366402	0.042650155
ENSG00000186973	FAM183A	10.89915626	0.607256444	0.643202603
ENSG00000125375	DMAC2L	248.5938416	0.607252175	0.028283361
ENSG00000125912	NCLN	4497.002312	0.607240328	0.001144435
ENSG00000118162	KPTN	310.7040719	0.607133939	0.038662289
ENSG00000153292	ADGRF1	5.590955807	0.606908226	0.770141511
ENSG00000065029	ZNF76	1188.56366	0.606885808	0.06269839
ENSG00000271816	BMS1P4	8.534197505	0.606686752	0.681066198
ENSG00000085274	MYNN	632.8333229	0.606651845	0.02366666
ENSG00000104853	CLPTM1	9272.660287	0.606321709	0.004820883

ENSG00000261732	AL031708.1	6.634213502	0.606198478	0.706354876
ENSG00000172164	SNTB1	19.42483633	0.606196857	0.468862698
ENSG00000138448	ITGAV	1879.475407	0.606174828	0.003702621
ENSG00000189060	H1F0	14994.78418	0.606055333	0.018983762
ENSG00000224094	RPS24P8	7.458616169	0.605967762	0.66088297
ENSG00000266865	AC138207.8	127.8121428	0.605628557	0.108200831
ENSG00000134815	DHX34	1030.985747	0.605366311	0.003785406
ENSG00000166949	SMAD3	921.5806333	0.605240925	0.019106925
ENSG00000147027	TMEM47	6.848479085	0.604927518	0.698254175
ENSG00000090520	DNAJB11	4002.841375	0.604892967	0.002530711
ENSG00000076641	PAG1	207.5008358	0.604767243	0.195575891
ENSG00000131910	NR0B2	15.40973679	0.604655215	0.573536338
ENSG00000105058	FAM32A	2519.652675	0.604626501	0.009861376
ENSG00000246174	KCTD21-AS1	63.62305317	0.60461575	0.27831119
ENSG00000089063	TMEM230	3221.026085	0.604392992	0.00085434
ENSG00000262420	AC007613.1	4.003662404	0.604245488	0.832859523
ENSG00000204581	ACOXL-AS1	10.06848039	0.604207252	0.612513981
ENSG00000149932	TMEM219	1612.829439	0.604193798	0.014572899
ENSG00000120451	SNX19	1121.060902	0.603931641	0.001378751
ENSG00000163207	IVL	51.10327073	0.603913831	0.501231678
ENSG00000134574	DDB2	653.8377723	0.603368728	0.022503922
ENSG00000267296	CEBPA-DT	28.82555484	0.603358993	0.480158537
ENSG00000249125	AC093821.1	118.7702794	0.603204705	0.230238628
ENSG00000225138	SLC9A3-AS1	188.7677577	0.603075826	0.144289331

ENSG00000165240	ATP7A	190.8887198	0.6028891	0.065761638
ENSG00000136149	RPL13AP25	46.03732378	0.602875437	0.263786571
ENSG00000267834	AL592211.1	10.94402623	0.602703635	0.613203004
ENSG00000078618	NRDC	12388.6236	0.602686622	0.00534084
ENSG00000090266	NDUFB2	1281.784027	0.602511814	0.007055751
ENSG00000159202	UBE2Z	5620.968407	0.602144501	0.002239665
ENSG00000269584	TDGF1P7	6.502489692	0.601957231	0.728111876
ENSG00000103043	VAC14	1699.588121	0.601877609	0.008045313
ENSG00000175854	SWI5	1149.066882	0.601644978	0.008372903
ENSG00000151092	NGLY1	922.4828846	0.601554113	0.005684841
ENSG00000141378	PTRH2	2379.875775	0.601179741	0.03294601
ENSG00000091640	SPAG7	3017.219681	0.601166041	0.008676489
ENSG00000079335	CDC14A	146.8391685	0.60084643	0.142771197
ENSG00000169696	ASPSCR1	564.5622476	0.600552679	0.026320172
ENSG00000147535	PLPP5	2836.484198	0.600476246	0.011433901
ENSG00000105550	FGF21	9.649997847	0.600392649	0.632512655
ENSG00000133935	ERG28	2605.648215	0.600330533	0.039294052
ENSG00000131143	COX4I1	15294.66648	0.60023385	0.001603108
ENSG00000178028	DMAP1	1309.883395	0.600000909	0.002485135
ENSG00000122591	FAM126A	632.1979083	0.599978456	0.006388717
ENSG00000145715	RASA1	15106.49313	0.599780454	0.011311779
ENSG00000161664	ASB16	35.34366701	0.599560155	0.36328377
ENSG00000182220	ATP6AP2	3982.451089	0.599018434	0.013497377
ENSG00000260081	AF274858.1	12.7602515	0.598938761	0.605299228

ENSG00000210196	MT-TP	1233.172894	0.598591907	0.034476097
ENSG00000101246	ARFRP1	776.3956016	0.598458606	0.018659038
ENSG00000271862	AC104118.1	25.68923908	0.598446871	0.456285164
ENSG00000237499	WAKMAR2	1241.454503	0.598421223	0.036096232
ENSG00000166908	PIP4K2C	4344.493657	0.598380306	0.000560718
ENSG00000278768	BACE1-AS	14.53857634	0.598380216	0.593201922
ENSG00000103150	MLYCD	313.9755397	0.59818999	0.047050513
ENSG00000173581	CCDC106	301.9683102	0.598128513	0.097752866
ENSG00000230124	ACBD6	2085.199543	0.597879836	0.022189428
ENSG00000106591	MRPL32	1575.228379	0.597874354	0.051920459
ENSG00000255425	OR8G3P	8.178937911	0.597611597	0.674055051
ENSG00000168509	HJV	3.68302367	0.597296268	0.855326044
ENSG00000196208	GREB1	9.660377235	0.597009359	0.629847779
ENSG00000177666	PNPLA2	3177.339345	0.596936654	0.005252912
ENSG00000107742	SPOCK2	15.7164993	0.596924329	0.717572961
ENSG00000162144	CYB561A3	474.5443295	0.596816427	0.015796814
ENSG00000132716	DCAF8	1077.430233	0.596769101	0.006504426
ENSG00000180992	MRPL14	1971.81864	0.596739296	0.005230602
ENSG00000100441	KHNYN	2587.312192	0.596735182	0.064790016
ENSG00000068354	TBC1D25	689.0537961	0.596300756	0.009866412
ENSG00000253476	AC091185.1	4.542167091	0.596213748	0.838441788
ENSG00000204228	HSD17B8	303.8483045	0.595984796	0.156432889
ENSG00000109180	OCIAD1	5156.868534	0.595925148	0.000901902
ENSG00000197037	ZSCAN25	519.9375029	0.595771444	0.086780995

ENSG00000179271	GADD45GIP1	1472.245103	0.595472349	0.00939224
ENSG00000185043	CIB1	821.3260546	0.595457164	0.015578046
ENSG00000011007	ELOA	3215.141981	0.595416143	0.004301595
ENSG00000130829	DUSP9	3530.472086	0.595167144	0.102150324
ENSG00000110025	SNX15	14.71560983	0.594992721	0.575703395
ENSG00000225259	ST13P6	8.737078934	0.594973038	0.637386844
ENSG00000227500	SCAMP4	2861.772918	0.594614876	0.002025583
ENSG00000145476	CYP4V2	17.51866072	0.594557763	0.554524154
ENSG00000125741	OPA3	2052.529044	0.59446654	0.004162056
ENSG00000116649	SRM	5362.028172	0.594333995	0.001491331
ENSG00000188827	SLX4	544.3934845	0.594286108	0.117157062
ENSG00000144746	ARL6IP5	5444.893532	0.594201611	0.00125082
ENSG00000115486	GGCX	2652.524786	0.594143353	0.005374515
ENSG00000230583	GTF2IRD1P1	6.219757166	0.594055242	0.7938425
ENSG00000268186	ZNF114-AS1	7.766591156	0.593984452	0.714796086
ENSG00000127831	VIL1	88.1645157	0.593855923	0.156209183
ENSG00000100982	PCIF1	1457.450031	0.593377406	0.031787951
ENSG00000137709	POU2F3	340.4083824	0.593306188	0.028825942
ENSG00000105875	WDR91	3014.525784	0.593191334	0.037297095
ENSG00000100360	IFT27	224.9477865	0.593190869	0.104210451
ENSG00000276649	AL117335.1	6.212396995	0.593170063	0.698254175
ENSG00000272462	U91328.1	53.96286992	0.59310078	0.420755402
ENSG00000167264	DUS2	1701.927203	0.59299212	0.019988419
ENSG00000170604	IRF2BP1	540.7617515	0.592900896	0.042917209

ENSG00000103245	CIAO3	955.130825	0.592756537	0.003804702
ENSG00000076604	TRAF4	10287.14336	0.592653916	0.008057968
ENSG00000259803	SLC22A31	508.8502275	0.592634156	0.082098219
ENSG00000125817	CENPB	1586.390425	0.592455379	0.026115958
ENSG00000228413	AC024937.1	13.13164462	0.592376909	0.653220313
ENSG00000279459	AP001271.2	54.82675785	0.592279566	0.337880705
ENSG00000117597	UTP25	697.6885927	0.592176028	0.032880611
ENSG00000287067	AC106791.3	9.508839142	0.591999995	0.699181907
ENSG00000181610	MRPS23	1209.830025	0.591967336	0.012998237
ENSG00000172985	SH3RF3	7.577623242	0.591869051	0.6879608
ENSG00000163378	EOGT	263.90186	0.591832549	0.068075887
ENSG00000146067	FAM193B	1088.224544	0.591832418	0.008938299
ENSG00000154511	DIPK1A	546.9049278	0.591729392	0.102387258
ENSG00000280486	AC005329.3	5.679011127	0.59140194	0.807764824
ENSG00000176095	IP6K1	3630.984148	0.591230838	0.014763434
ENSG00000127952	STYXL1	1279.35771	0.59112694	0.023223445
ENSG00000261490	AC005674.2	12.34365332	0.591090355	0.643115658
ENSG00000185418	TARSL2	108.0053839	0.590950415	0.128372028
ENSG00000164919	COX6C	2607.879625	0.590565254	0.01023956
ENSG00000131966	ACTR10	1957.73623	0.590277356	0.00232249
ENSG00000196756	SNHG17	1708.467098	0.590099017	0.011193948
ENSG00000158201	ABHD3	768.3505678	0.590001659	0.035804164
ENSG00000119772	DNMT3A	1684.54871	0.589938969	0.021280493
ENSG00000175782	SLC35E3	600.5761983	0.589857455	0.021649284

ENSG00000105755	ETHE1	793.216541	0.589473974	0.086812593
ENSG00000103274	NUBP1	358.7976507	0.589221468	0.025885865
ENSG00000144120	TMEM177	128.6782297	0.589057661	0.1433595
ENSG00000196275	GTF2IRD2	53.60045476	0.588983035	0.238060219
ENSG00000188786	MTF1	1482.780062	0.588732479	0.026369137
ENSG00000164535	DAGLB	2030.371957	0.588717099	0.008812659
ENSG00000179922	ZNF784	236.5735044	0.588515543	0.04409663
ENSG00000125991	ERGIC3	13312.885	0.58845951	0.00083173
ENSG00000204435	CSNK2B	187.4779563	0.588217801	0.050468209
ENSG00000096968	JAK2	275.7882813	0.587933547	0.190563983
ENSG00000171236	LRG1	617.2235292	0.587487508	0.018955456
ENSG00000117410	ATP6V0B	5433.915339	0.586957042	0.001378708
ENSG00000220920	AL023807.1	22.03720984	0.586914212	0.556329049
ENSG00000261114	AC012181.1	7.475078899	0.586891647	0.679649931
ENSG00000100991	TRPC4AP	7227.688314	0.586665647	0.001391007
ENSG00000145246	ATP10D	14706.69792	0.586562875	0.02765135
ENSG00000183258	DDX41	3888.576327	0.586491109	0.002006948
ENSG00000124107	SLPI	14.89760813	0.586471744	0.619219397
ENSG00000164889	SLC4A2	9522.213123	0.58644488	0.102008288
ENSG00000248370	LINC02434	148.8520126	0.586376703	0.180976925
ENSG00000226696	LENG8-AS1	25.63959472	0.586314985	0.439770374
ENSG00000183513	COA5	506.5869947	0.586309178	0.02234411
ENSG00000177106	EPS8L2	10206.30784	0.58590117	0.006029782
ENSG00000135956	TMEM127	3684.18507	0.585797592	0.001214959

ENSG00000052841	TTC17	1609.893058	0.585642726	0.005588196
ENSG00000174238	PITPNA	9425.484463	0.585575898	0.001424002
ENSG00000173702	MUC13	31.2337534	0.585575656	0.384468826
ENSG00000181097	AC105219.1	17.07587712	0.585463137	0.521802122
ENSG00000100575	TIMM9	795.6812575	0.585285971	0.056216012
ENSG00000116455	WDR77	1025.721797	0.585128426	0.0173484
ENSG00000008382	MPND	396.8649801	0.584501194	0.023540154
ENSG00000159314	ARHGAP27	2627.737894	0.584440112	0.019646034
ENSG00000178096	BOLA1	228.8076209	0.584376363	0.153087891
ENSG00000135697	BCO1	36.05144938	0.584279607	0.365634566
ENSG00000165233	CARD19	241.0596924	0.584153156	0.038054085
ENSG00000105447	GRWD1	1978.375536	0.583483264	0.044431822
ENSG00000189050	RNFT1	207.1179669	0.583442724	0.112474277
ENSG00000117519	CNN3	3264.523121	0.58325888	0.005056329
ENSG00000115282	TTC31	996.5374816	0.583166426	0.019693657
ENSG00000115286	NDUFS7	236.6433952	0.582908769	0.046951491
ENSG00000111321	LTBR	1637.035551	0.582682726	0.004098524
ENSG00000249001	AC093895.1	10.57816917	0.582632928	0.653979093
ENSG00000143199	ADCY10	92.77764936	0.58262894	0.151351815
ENSG00000179532	DNHD1	245.884327	0.582567496	0.209776372
ENSG00000169217	CD2BP2	3755.194963	0.58244413	0.02734072
ENSG00000242114	MTFP1	20.57055261	0.582314666	0.512645349
ENSG00000123268	ATF1	1167.089962	0.582281854	0.02885448
ENSG00000108639	SYNGR2	2570.303716	0.581906185	0.001655177

ENSG00000171150	SOCS5	629.0220409	0.581826329	0.033530146
ENSG00000163659	TIPARP	1780.351025	0.581318634	0.624913965
ENSG00000084073	ZMPSTE24	2984.106224	0.581266357	0.006203732
ENSG00000151748	SAV1	1393.607008	0.580990876	0.003840674
ENSG00000074582	BCS1L	1028.961439	0.580792929	0.015332513
ENSG00000130731	METTL26	597.111958	0.580503366	0.038642393
ENSG00000186501	TMEM222	994.1648752	0.580487163	0.022268614
ENSG00000154222	CC2D1B	2017.412576	0.580481343	0.003208936
ENSG00000169057	MECP2	634.3976895	0.580200011	0.01036202
ENSG00000228315	GUSBP11	73.42871508	0.580193804	0.279842547
ENSG00000185825	BCAP31	14458.90265	0.579986872	0.012138092
ENSG00000108799	EZH1	1427.415484	0.579942428	0.019887937
ENSG00000236123	CEACAMP11	6.36290304	0.579884507	0.786477016
ENSG00000286613	AC006213.7	6.785566109	0.579848291	0.718130123
ENSG00000235890	TSPEAR-AS1	6.02411095	0.579647122	0.748117258
ENSG00000124659	TBCC	863.1871266	0.579614205	0.041311655
ENSG00000280152	AC009078.3	14.53863432	0.579435195	0.595730435
ENSG00000172775	FAM192A	1783.868998	0.579295277	0.009148993
ENSG00000173171	MTX1	2208.22571	0.579207406	0.004400192
ENSG00000046647	GEMIN8	250.1883896	0.57905917	0.075300162
ENSG00000227036	LINC00511	113.9363675	0.578911936	0.334180468
ENSG00000053372	MRTO4	2084.77982	0.578856357	0.026039587
ENSG00000172380	GNG12	5805.114226	0.578626669	0.006393977
ENSG00000167711	SERPINF2	6.878746136	0.578545673	0.731224059

ENSG00000151689	INPP1	120.1034841	0.578494678	0.154616143
ENSG00000197579	TOPORS	996.7771072	0.578351802	0.006210015
ENSG00000130772	MED18	1001.723445	0.578263839	0.010236957
ENSG00000105197	TIMM50	2363.59156	0.577952576	0.011576889
ENSG00000160714	UBE2Q1	1807.885338	0.577947396	0.068306877
ENSG00000164855	TMEM184A	613.1859892	0.577727642	0.044749771
ENSG00000236675	MTX1P1	209.7702199	0.577469448	0.058370874
ENSG00000240889	NDUFB2-AS1	12.41098152	0.577434927	0.603052904
ENSG00000254858	MPV17L2	943.7256695	0.577322311	0.008849963
ENSG00000274523	RCC1L	2235.892185	0.576886709	0.021115736
ENSG00000010539	ZNF200	341.2865829	0.576498666	0.090186516
ENSG00000260581	AC011374.1	6.573744305	0.57635873	0.759551017
ENSG00000260563	AC132872.1	14.57130662	0.575940063	0.594599082
ENSG00000224520	KRT8P45	62.14169933	0.574969984	0.228970438
ENSG00000171045	TSNARE1	6.279168537	0.57481096	0.783172537
ENSG00000070961	ATP2B1	620.2938726	0.574737952	0.026457072
ENSG00000130733	YIPF2	3389.296081	0.574581585	0.06892298
ENSG00000229167	AC114488.1	65.05409137	0.574447966	0.247641021
ENSG00000155438	NIFK	770.469619	0.574264765	0.065488712
ENSG00000149806	FAU	9261.066601	0.573792995	0.001917626
ENSG00000135390	ATP5MC2	5028.205152	0.573679671	0.032644059
ENSG00000198728	LDB1	2721.629326	0.573229871	0.00630779
ENSG00000159069	FBXW5	5403.164252	0.573146682	0.003643674
ENSG00000165724	ZMYND19	1187.818469	0.573052896	0.010910774

ENSG00000253683	AC027309.2	17.66099829	0.573052701	0.55212867
ENSG00000186088	GSAP	13.65283374	0.572864828	0.646894944
ENSG00000270039	AC025165.5	4.332386405	0.57260761	0.79911376
ENSG00000185122	HSF1	4638.617315	0.572283349	0.004430079
ENSG00000147789	ZNF7	564.6025473	0.572254333	0.009489113
ENSG00000113851	CRBN	737.6057251	0.571804915	0.016082553
ENSG00000158966	CACHD1	4.372226087	0.571324324	0.811261673
ENSG00000180385	EMC3-AS1	67.15989077	0.571118994	0.235493866
ENSG00000234956	LINC02539	6.134717616	0.570927351	0.746815329
ENSG00000236496	GPS2P1	7.965466445	0.570861903	0.698254175
ENSG00000264112	AC015813.1	249.0099556	0.570822171	0.11984566
ENSG00000120162	MOB3B	7619.909197	0.570708136	0.019086365
ENSG00000214046	SMIM7	900.5152299	0.570472737	0.012056681
ENSG00000228407	AL139156.2	7.639058501	0.570245557	0.690859437
ENSG00000162076	FLYWCH2	175.4572848	0.569506661	0.082444959
ENSG00000237441	RGL2	9026.988977	0.569503624	0.003002738
ENSG00000213903	LTB4R	258.2206068	0.569500837	0.18388163
ENSG00000119723	COQ6	134.6912364	0.569344276	0.130551326
ENSG00000255823	MTRNR2L8	13.17133179	0.569276427	0.58848982
ENSG00000163161	ERCC3	2444.955686	0.569262297	0.009274393
ENSG00000168936	TMEM129	440.2278993	0.569111868	0.051296646
ENSG00000107175	CREB3	2104.955929	0.569104694	0.006080674
ENSG00000188976	NOC2L	3074.7762	0.569062354	0.003049707
ENSG00000110031	LPXN	55.26002188	0.569060981	0.352076154

ENSG00000106526	ACTR3C	47.83773942	0.569012026	0.285459052
ENSG00000104848	KCNA7	285.8108781	0.568908385	0.222694938
ENSG00000028839	TBPL1	3297.669566	0.568882646	0.060623237
ENSG00000123609	NMI	1767.744993	0.568473633	0.052563765
ENSG00000147687	TATDN1	544.3895323	0.567975864	0.073967155
ENSG00000283324	CTXND2	13.17753127	0.567916478	0.675790259
ENSG00000153214	TMEM87B	1304.915235	0.567865502	0.023976665
ENSG00000136935	GOLGA1	527.4711205	0.567420054	0.046550133
ENSG00000170260	ZNF212	968.0326689	0.567183957	0.023669028
ENSG00000272931	AC099568.2	93.94784858	0.567163573	0.379375963
ENSG00000159433	STARD9	94.39769395	0.567031864	0.270380605
ENSG00000104872	PIH1D1	1903.027799	0.566799873	0.014374319
ENSG00000184831	APOO	263.3775196	0.566745336	0.0868901
ENSG00000118600	RXYLT1	591.2899893	0.56644982	0.057171948
ENSG00000228218	ATF4P3	9.227186266	0.566270374	0.672287163
ENSG00000228526	MIR34AHG	246.2919211	0.566196828	0.077251739
ENSG00000100445	SDR39U1	167.220428	0.565872638	0.068191278
ENSG00000143801	PSEN2	344.5865626	0.565101778	0.056616612
ENSG00000156603	MED19	918.7625838	0.564954463	0.040732106
ENSG00000266709	AC005224.3	46.76912977	0.564896827	0.460229642
ENSG00000172965	MIR4435-2HG	420.9417363	0.564876138	0.047371537
ENSG00000132275	RRP8	496.5077291	0.564283314	0.029095475
ENSG00000183508	TENT5C	41.65943462	0.563939356	0.46118167
ENSG00000231074	HCG18	327.8346607	0.563917643	0.052134745

ENSG00000224848	AL589843.1	23.47968258	0.563449475	0.47558051
ENSG00000185187	SIGIRR	1544.198265	0.563426362	0.016202153
ENSG00000131037	EPS8L1	20679.69025	0.56332575	0.011295019
ENSG00000023171	GRAMD1B	186.3735445	0.563018212	0.204595527
ENSG00000236670	KRT18P5	7.99693382	0.562827211	0.732628585
ENSG00000141759	TXNL4A	2113.181943	0.562697479	0.012303968
ENSG00000278000	AC139100.2	47.36953175	0.562601077	0.343426236
ENSG00000186919	ZACN	5.550678644	0.56248862	0.747619062
ENSG00000258646	AL049780.1	29.61334581	0.562472672	0.549477916
ENSG00000107819	SFXN3	425.5151106	0.562296525	0.048073717
ENSG00000170619	COMMD5	320.9503538	0.56208538	0.084629225
ENSG00000133943	DGLUCY	545.7438735	0.562050164	0.037361502
ENSG00000175482	POLD4	62.16136413	0.561957786	0.271626666
ENSG00000206262	FOXL2NB	6.074456735	0.561900239	0.762758312
ENSG00000198223	CSF2RA	11471.85095	0.56181131	0.013369833
ENSG00000166971	AKTIP	2002.343736	0.561786347	0.031376321
ENSG00000256196	AP003721.1	13.33431234	0.56147573	0.681831171
ENSG00000231312	MAP4K3-DT	91.55345486	0.561307206	0.24814635
ENSG00000175213	ZNF408	744.8599188	0.561225258	0.034684635
ENSG00000112773	TENT5A	21964.15135	0.561196664	0.012180077
ENSG00000198856	OSTC	6708.248333	0.561177856	0.002077635
ENSG00000197150	ABCB8	3541.857108	0.560822305	0.004102537
ENSG00000245680	ZNF585B	267.9040255	0.560726403	0.039570932
ENSG00000269929	AL158152.1	39.37572541	0.560708439	0.376665033

ENSG00000090857	PDPR	585.5286638	0.560705908	0.050092422
ENSG00000102225	CDK16	4844.012537	0.560632505	0.004051979
ENSG00000177374	HIC1	7.869562424	0.560329317	0.702039017
ENSG00000091542	ALKBH5	3169.489417	0.560303169	0.013744218
ENSG00000120889	TNFRSF10B	8393.906879	0.560200632	0.043679733
ENSG00000176720	BOK	664.5182722	0.560193412	0.030664942
ENSG00000123892	RAB38	735.4913626	0.560166336	0.058787696
ENSG00000101294	HM13	12018.31062	0.559768022	0.002032952
ENSG00000177556	ATOX1	1311.87075	0.559618772	0.010859934
ENSG00000182584	ACTL10	6.426430036	0.559567792	0.721618641
ENSG00000250317	SMIM20	340.8136563	0.559385049	0.039422306
ENSG00000231203	KRT8P10	23.18980695	0.559123932	0.473982955
ENSG00000243449	C4orf48	130.5732477	0.559058898	0.163685513
ENSG00000239445	ST3GAL6-AS1	27.50638295	0.559018758	0.519457814
ENSG00000104866	PPP1R37	874.0904165	0.558840814	0.015113714
ENSG00000164463	CREBRF	624.2110631	0.558169195	0.050586906
ENSG00000165487	MICU2	1607.995741	0.558085646	0.010157959
ENSG00000145860	RNF145	567.6791035	0.557933919	0.030470838
ENSG00000127054	INTS11	4103.119561	0.557769016	0.003472268
ENSG00000172992	DCAKD	634.5451776	0.557585046	0.229786563
ENSG00000182768	NGRN	506.2217186	0.55753093	0.037113874
ENSG00000248719	AC021127.1	7.444994713	0.557402723	0.72880882
ENSG00000173706	HEG1	1113.348212	0.557288391	0.250927315
ENSG00000070444	MNT	1120.717823	0.556656794	0.084352144

ENSG00000226648	PLCG1-AS1	10.99279235	0.556568873	0.65668724
ENSG00000142534	RPS11	47968.78942	0.556555646	0.00785444
ENSG00000214756	CSKMT	89.766022	0.556402223	0.18368719
ENSG00000172046	USP19	2886.057306	0.556206259	0.006075957
ENSG00000283103	AC010642.2	41.51746367	0.55595111	0.373753686
ENSG00000219992	AL391422.1	7.431900479	0.555838019	0.709577365
ENSG00000119138	KLF9	4.561633021	0.555772734	0.783992299
ENSG00000122477	LRRC39	5.836051736	0.555568542	0.77118404
ENSG00000005302	MSL3	729.1455506	0.555449014	0.021563014
ENSG00000174775	HRAS	1187.510821	0.555380608	0.034984535
ENSG00000229097	CALM2P2	15.0528683	0.555314648	0.605404214
ENSG00000181481	RNF135	979.8259786	0.555219144	0.039487568
ENSG00000178623	GPR35	16.43442037	0.555195309	0.575718746
ENSG00000100284	TOM1	6095.399556	0.555148195	0.002279681
ENSG00000178852	EFCAB13	17.64283977	0.55502848	0.606643788
ENSG00000179933	C14orf119	3049.928772	0.554894144	0.009494521
ENSG00000101363	MANBAL	2806.249162	0.554806311	0.003828839
ENSG00000217716	RPS10P3	5.524643283	0.554798008	0.820112004
ENSG00000144655	CSRNP1	2201.137962	0.554778429	0.032151781
ENSG00000109929	SC5D	2541.156507	0.554520392	0.077935341
ENSG00000159086	PAXBP1	1757.072045	0.554113929	0.005097551
ENSG00000160785	SLC25A44	1691.444215	0.554071035	0.044624778
ENSG00000189306	RRP7A	5167.194137	0.55396201	0.004519214
ENSG00000140941	MAP1LC3B	6214.861721	0.553918006	0.001684844

ENSG00000186205	MARC1	1999.100837	0.553900061	0.115501759
ENSG00000007923	DNAJC11	2257.022615	0.553837219	0.002721554
ENSG00000162236	STX5	4927.670013	0.553794941	0.003614616
ENSG00000269834	ZNF528-AS1	30.37140436	0.553638243	0.48670301
ENSG00000269910	AL049840.3	7.707426936	0.553582779	0.695051839
ENSG00000090432	MUL1	762.1772721	0.553524778	0.025775357
ENSG00000205903	ZNF316	631.9249623	0.553480726	0.043879849
ENSG00000198198	SZT2	746.9270896	0.55345004	0.125529712
ENSG00000229809	ZNF688	32.17967956	0.553432392	0.458702698
ENSG00000159352	PSMD4	14440.18453	0.553303318	0.003661333
ENSG00000169026	SLC49A3	10.73376538	0.552933646	0.737956589
ENSG00000110917	MLEC	8766.277128	0.552929364	0.005193535
ENSG00000104331	IMPAD1	2177.377499	0.552721252	0.015276483
ENSG00000172201	ID4	92.24684187	0.552711253	0.480951858
ENSG00000236924	AL162411.1	25.14842317	0.552440087	0.501291402
ENSG00000274897	PANO1	3.648275088	0.552043566	0.821785478
ENSG00000027697	IFNGR1	7150.38328	0.551911324	0.037297095
ENSG00000112578	BYSL	2723.229287	0.55170911	0.106565145
ENSG00000108255	CRYBA1	158.1464604	0.551664272	0.288278825
ENSG00000164379	FOXQ1	12.45281436	0.551374695	0.669129219
ENSG00000147684	NDUFB9	2435.135896	0.551318369	0.017188012
ENSG00000187189	TSPYL4	226.1728705	0.55112626	0.146807832
ENSG00000142396	ERVK3-1	35.7653869	0.550736259	0.420409507
ENSG00000285399	AC104162.2	11.61159397	0.550589055	0.652543256

ENSG00000279837	AC112694.2	5.003489069	0.550496037	0.830632617
ENSG00000151304	SRFBP1	225.4139664	0.55020592	0.086141734
ENSG00000213398	LCAT	572.5906262	0.550003901	0.137022074
ENSG00000107789	MINPP1	213.1509407	0.54978275	0.144631251
ENSG00000147174	GCNA	58.33793272	0.549577808	0.445324795
ENSG00000108774	RAB5C	1571.959145	0.549575998	0.008541295
ENSG00000123349	PFDN5	8058.490516	0.549285938	0.003365271
ENSG00000229932	YWHAZP3	10.34837932	0.549058488	0.646894944
ENSG00000236144	TMEM147-AS1	69.44081546	0.549047113	0.248836483
ENSG00000260920	AL031985.3	15.32130328	0.549009746	0.622303312
ENSG00000165494	PCF11	2023.602486	0.548939079	0.074224975
ENSG00000180479	ZNF571	85.53259347	0.548818315	0.19027734
ENSG00000116874	WARS2	948.1478756	0.548766838	0.013163787
ENSG00000178878	APOLD1	11.9269712	0.548633446	0.629823412
ENSG00000213977	TAX1BP3	21.32729645	0.548562409	0.541113665
ENSG00000168061	SAC3D1	456.7642197	0.548344339	0.020021859
ENSG00000247595	SPTY2D1OS	13.8643454	0.548161983	0.702592261
ENSG00000147586	MRPS28	251.3397574	0.547995203	0.112993208
ENSG00000180979	LRRC57	652.8731386	0.547937053	0.037064624
ENSG00000205890	AC108134.1	18.94312282	0.547804345	0.553661243
ENSG00000104689	TNFRSF10A	115.678525	0.547421963	0.246903124
ENSG00000089199	CHGB	60.06715655	0.547106744	0.269575756
ENSG00000101605	MYOM1	14.13844985	0.546552363	0.656068609
ENSG00000246339	EXTL3-AS1	5.778567838	0.546191153	0.751304132

ENSG00000146094	DOK3	23.25371902	0.546186241	0.581812285
ENSG00000139438	FAM222A	37.26121068	0.546181894	0.604242051
ENSG00000213563	C8orf82	313.6033869	0.546022131	0.056262574
ENSG00000285884	AL022345.4	5.67120722	0.546006514	0.816716038
ENSG00000277072	STAG3L2	272.0154164	0.545733068	0.033563499
ENSG00000184860	SDR42E1	5.570170352	0.545662955	0.796126711
ENSG00000165282	PIGO	2451.972001	0.545649996	0.041752446
ENSG00000106009	BRAT1	1221.83239	0.545443435	0.006544946
ENSG00000106682	EIF4H	35483.24116	0.54542611	0.009237821
ENSG00000174939	ASPHD1	12.20772241	0.545316533	0.657093884
ENSG00000140280	LYSMD2	16.02866881	0.544661181	0.636875568
ENSG00000176919	C8G	44.99740501	0.544589735	0.345498131
ENSG00000121552	CSTA	136.442612	0.544570279	0.166649951
ENSG00000221869	CEBPD	1659.543666	0.544491885	0.090333326
ENSG00000122678	POLM	832.9125424	0.544474576	0.00825802
ENSG00000111371	SLC38A1	22806.35299	0.544429095	0.019163302
ENSG00000071553	ATP6AP1	17431.15448	0.54374714	0.002160679
ENSG00000135587	SMPD2	592.9026028	0.543731721	0.01617724
ENSG00000118960	HS1BP3	1766.889436	0.54371402	0.018919664
ENSG00000198824	CHAMP1	687.1813016	0.543694518	0.039845458
ENSG00000109103	UNC119	475.408322	0.543633969	0.065321296
ENSG00000268049	AC012313.2	10.57412727	0.543532758	0.696250953
ENSG00000224051	CPTP	677.7841784	0.543064689	0.025761764
ENSG00000125449	ARMC7	590.4615259	0.543027864	0.032870963

ENSG00000248367	AC008610.1	33.3117649	0.542608958	0.448924546
ENSG00000104886	PLEKHJ1	928.714612	0.542446976	0.044007886
ENSG00000162129	CLPB	3393.305105	0.542421097	0.006336102
ENSG00000105723	GSK3A	2215.266932	0.542355884	0.007430046
ENSG00000100938	GMPR2	3063.242489	0.54229653	0.013668366
ENSG00000177225	GATD1	870.1859097	0.54184578	0.023520229
ENSG00000178951	ZBTB7A	2562.665851	0.541650765	0.015536161
ENSG00000196652	ZKSCAN5	446.2544053	0.541642879	0.053584462
ENSG00000198821	CD247	4.182028079	0.541174965	0.797105922
ENSG00000158805	ZNF276	177.0766813	0.540751785	0.138969465
ENSG00000107872	FBXL15	542.0407051	0.540651837	0.040828012
ENSG00000129993	CBFA2T3	142.241559	0.540620924	0.323660461
ENSG00000225657	LINC01716	10.99293608	0.540268121	0.662235447
ENSG00000163638	ADAMTS9	20.46670618	0.540139578	0.646541997
ENSG00000124357	NAGK	4713.569012	0.540032735	0.007930205
ENSG00000242950	ERVW-1	130817.8573	0.540030396	0.012012454
ENSG00000072182	ASIC4	5.162247909	0.539941116	0.771170259
ENSG00000260328	AC104024.2	5.562387236	0.539909067	0.821870821
ENSG00000160336	ZNF761	1306.86638	0.539720185	0.005843046
ENSG00000239789	MRPS17	65.7984147	0.539626024	0.420359538
ENSG00000171606	ZNF274	1305.234019	0.539487607	0.016562093
ENSG00000005194	CIAPIN1	2714.754461	0.539047613	0.04409663
ENSG00000156521	TYSND1	350.3643131	0.539029946	0.059545823
ENSG00000184857	TMEM186	358.0308851	0.538835322	0.094718872

ENSG00000103544	VPS35L	2469.4167	0.538672536	0.059499959
ENSG00000103111	MON1B	1819.113319	0.538426733	0.009890196
ENSG00000144136	SLC20A1	11022.16188	0.538334465	0.171938638
ENSG00000101439	CST3	2540.118462	0.538161372	0.004707997
ENSG00000006638	TBXA2R	58.91671078	0.537822524	0.284961122
ENSG00000268895	A1BG-AS1	31.90546738	0.537809248	0.455838341
ENSG00000132376	INPP5K	1612.391554	0.537700286	0.00446052
ENSG00000267321	SNHG30	300.6744996	0.537670993	0.22572305
ENSG00000123965	PMS2P5	25.18441834	0.537338944	0.504808316
ENSG00000266830	AC061975.6	123.3135963	0.536874426	0.152362842
ENSG00000232871	SEC1P	6.310253932	0.536860253	0.794998175
ENSG00000183426	NPIPA1	112.6082474	0.53668376	0.292245052
ENSG00000136383	ALPK3	182.5643057	0.536630449	0.153057954
ENSG00000179832	MROH1	3306.171387	0.536186521	0.051971991
ENSG00000140682	TGFB1I1	7.924541331	0.536103725	0.718296902
ENSG00000184743	ATL3	1508.700819	0.536103482	0.021793323
ENSG00000267419	AC011477.1	5.572209644	0.535849616	0.761884632
ENSG00000166024	R3HCC1L	746.5077521	0.535836466	0.033758255
ENSG00000196655	TRAPPC4	1084.563372	0.535637225	0.015166868
ENSG00000224597	SVIL-AS1	274.6293973	0.53539345	0.077851541
ENSG00000279278	AC245060.6	5.492366699	0.535325137	0.778888151
ENSG00000233478	AL031280.1	51.47236585	0.535288157	0.41151865
ENSG00000232442	MHENCR	165.9340835	0.535020224	0.156037043
ENSG00000144485	HES6	71.53274714	0.534190537	0.395489631

ENSG00000007384	RHBDF1	2592.429304	0.534169248	0.021714257
ENSG00000110871	COQ5	969.5034174	0.533827291	0.091938383
ENSG00000260528	FAM157C	5.381672118	0.533327262	0.807764824
ENSG00000127220	ABHD8	601.2821568	0.533166543	0.156741747
ENSG00000167608	TMC4	91.47672879	0.533077344	0.286172412
ENSG00000204574	ABCF1	9740.283615	0.532541	0.029202099
ENSG00000144231	POLR2D	1401.37472	0.532530462	0.011517425
ENSG00000100558	PLEK2	45.57089016	0.532198722	0.503471678
ENSG00000111676	ATN1	7337.11504	0.532178981	0.002930683
ENSG00000272645	GTF2IP20	189.4956081	0.531999283	0.285238674
ENSG00000185608	MRPL40	766.6201786	0.531784511	0.065910835
ENSG00000130429	ARPC1B	67.0851757	0.531699682	0.294765598
ENSG00000189376	C8orf76	77.53386637	0.531619607	0.321884977
ENSG00000247934	AC022364.1	7.075874975	0.531451288	0.785828521
ENSG00000133265	HSPBP1	816.7223087	0.531383382	0.027205218
ENSG00000102967	DHODH	286.4800346	0.531315376	0.087125968
ENSG00000224080	UBE2FP1	22.28271223	0.531287	0.58408758
ENSG00000223547	ZNF844	12.54760717	0.531232792	0.649598736
ENSG00000198736	MSRB1	1734.311768	0.531191306	0.053610403
ENSG00000103932	RPAP1	1583.120106	0.531141052	0.044531836
ENSG00000197847	SLC22A20P	17.6288336	0.53084108	0.679694813
ENSG00000165688	PMPCA	3109.884933	0.53077901	0.003331527
ENSG00000124104	SNX21	61.88586909	0.530499683	0.280435893
ENSG00000143369	ECM1	23417.03097	0.530444384	0.106508027

ENSG00000100614	PPM1A	2276.456418	0.530311233	0.035138907
ENSG00000186665	C17orf58	204.4111586	0.530227262	0.093861163
ENSG00000185515	BRCC3	2566.398322	0.530157808	0.013267291
ENSG00000266826	AC011195.2	8.955626631	0.530076261	0.727318077
ENSG00000119559	C19orf25	469.3425957	0.529489935	0.023650124
ENSG00000141504	SAT2	292.0889375	0.529440664	0.057517941
ENSG00000165792	METTL17	584.975468	0.52944035	0.069026177
ENSG00000136936	XPA	280.8227526	0.529315539	0.104989881
ENSG00000187051	RPS19BP1	3313.484129	0.529202626	0.061898374
ENSG00000187741	FANCA	3958.609709	0.528921055	0.053787167
ENSG00000102385	DRP2	35.94756363	0.528889035	0.560122497
ENSG00000072042	RDH11	6823.77163	0.528883422	0.081143665
ENSG00000258701	LINC00638	8.510184947	0.528789706	0.753084694
ENSG00000168283	BMI1	360.0999078	0.528748263	0.052068612
ENSG00000179406	LINC00174	74.16131757	0.528729173	0.358635893
ENSG00000119650	IFT43	194.0608324	0.528469269	0.167573939
ENSG00000129103	SUMF2	4695.958677	0.528441761	0.045016245
ENSG00000163798	SLC4A1AP	1814.753173	0.528241573	0.009628925
ENSG00000065548	ZC3H15	4753.318	0.528205066	0.010261801
ENSG00000117395	EBNA1BP2	2790.029486	0.528165128	0.012973597
ENSG00000272054	AC007390.2	10.60946442	0.528081141	0.656632476
ENSG00000225663	MCRIP1	1503.682551	0.527848295	0.037113874
ENSG00000079332	SAR1A	7220.740335	0.527771749	0.004400192
ENSG00000160013	PTGIR	2.988295817	0.527644134	0.895604705

ENSG00000218416	AC110619.1	900.6525673	0.527630751	0.148150445
ENSG00000130305	NSUN5	1472.565828	0.527515363	0.012928026
ENSG00000227097	RPS28P7	138.3412296	0.52688295	0.188270046
ENSG00000112365	ZBTB24	382.2999715	0.526711311	0.038010013
ENSG00000177731	FLII	3911.296349	0.526662273	0.021317925
ENSG00000131043	AAR2	916.0995817	0.526419545	0.092690832
ENSG00000167964	RAB26	29.6192988	0.526119249	0.524271752
ENSG00000058799	YIPF1	1871.862405	0.525983075	0.016870263
ENSG00000160255	ITGB2	13.83563973	0.525567963	0.682058459
ENSG00000148719	DNAJB12	2983.931711	0.525488478	0.012024878
ENSG00000001626	CFTR	5.685350445	0.525297977	0.788720911
ENSG00000131368	MRPS25	1014.265056	0.525294642	0.011055594
ENSG00000166592	RRAD	22.78013299	0.525268351	0.616880355
ENSG00000103051	COG4	2810.605616	0.525016732	0.005387518
ENSG00000130830	MPP1	16415.17757	0.524988783	0.108830821
ENSG00000172315	TP53RK	804.7584384	0.524969411	0.113190446
ENSG00000273253	AL022328.4	10.73545417	0.524906948	0.681831171
ENSG00000152894	PTPRK	1177.350369	0.524650405	0.029779491
ENSG00000100604	CHGA	303.3267236	0.524224634	0.108200831
ENSG00000103005	USB1	2146.717931	0.524202881	0.029040817
ENSG00000164331	ANKRA2	656.1856721	0.524080198	0.148925431
ENSG00000148331	ASB6	1395.567987	0.524026778	0.045820407
ENSG00000144043	TEX261	2674.308415	0.524022922	0.024221395
ENSG00000273230	AC102953.2	70.51686185	0.523916012	0.341281977

ENSG00000213995	NAXD	1645.024017	0.523834895	0.012058807
ENSG00000186577	SMIM29	483.4036536	0.523607137	0.197114145
ENSG00000172349	IL16	10.41707219	0.523286048	0.679797361
ENSG00000107443	CCNJ	275.6514519	0.52322295	0.069824509
ENSG00000228506	AL513550.1	74.57425007	0.522828514	0.272602218
ENSG00000103021	CCDC113	46.28103755	0.522410216	0.389479749
ENSG00000151502	VPS26B	1429.835641	0.522194758	0.006139705
ENSG00000103353	UBFD1	2687.465592	0.522187469	0.021078073
ENSG00000143740	SNAP47	1222.176957	0.522135751	0.052498003
ENSG00000148481	MINDY3	882.7165157	0.521999293	0.115009134
ENSG00000129347	KRI1	660.3306772	0.521822152	0.033551656
ENSG00000127666	TICAM1	429.3371507	0.521720564	0.215161716
ENSG00000175701	MTLN	168.7143441	0.521588866	0.317473064
ENSG00000120725	SIL1	4001.180448	0.521472691	0.035096362
ENSG00000116586	LAMTOR2	838.0592206	0.520723112	0.080147818
ENSG00000278619	MRM1	113.5125794	0.520604825	0.217548692
ENSG00000089351	GRAMD1A	1875.975272	0.520359696	0.188881092
ENSG00000198753	PLXNB3	8.987007642	0.520219143	0.721618641
ENSG00000130768	SMPDL3B	1884.347165	0.52018694	0.116358321
ENSG00000172890	NADSYN1	1564.875467	0.519719202	0.022904182
ENSG00000112972	HMGCS1	19147.59199	0.519544928	0.298839581
ENSG00000091947	TMEM101	1352.124174	0.518973459	0.048352024
ENSG00000165269	AQP7	11.08253297	0.518922359	0.67407665
ENSG00000177963	RIC8A	5181.849999	0.518825001	0.019486799

ENSG00000236507	BX470209.2	38.24110354	0.518455333	0.509209601
ENSG00000163945	UVSSA	289.6912223	0.518371365	0.14561604
ENSG00000176946	THAP4	2236.419936	0.518093409	0.008829549
ENSG00000105677	TMEM147	1937.461647	0.517584451	0.069703066
ENSG00000103024	NME3	525.9976528	0.517479571	0.10525161
ENSG00000140939	NOL3	388.4320442	0.5174464	0.156187108
ENSG00000106089	STX1A	211.4667816	0.517372918	0.095052452
ENSG00000226471	Z93930.2	45.15080823	0.517145069	0.58820224
ENSG00000262766	AC135050.5	7.35732252	0.517007265	0.762265036
ENSG00000179632	MAF1	3023.905783	0.516470648	0.006828936
ENSG00000273891	AL731566.2	23.16769719	0.51620647	0.531165157
ENSG00000142609	CFAP74	152.0124729	0.516047749	0.202129369
ENSG00000181704	YIPF6	7791.749578	0.515983363	0.011128798
ENSG00000073169	SELENOO	852.118884	0.515799115	0.031232463
ENSG00000243970	PPIEL	146.9262063	0.515618811	0.200868256
ENSG00000266472	MRPS21	2920.128539	0.515473162	0.013103408
ENSG00000219607	PPP1R3G	15.41392247	0.515352204	0.680140737
ENSG00000149346	SLX4IP	201.6194042	0.514839693	0.166521517
ENSG00000184076	UQCR10	570.7264607	0.514642569	0.024221395
ENSG00000152464	RPP38	338.8842404	0.514503513	0.044431822
ENSG00000181409	AATK	107.6221161	0.514387004	0.319837813
ENSG00000007392	LUC7L	971.099624	0.514319093	0.163832311
ENSG00000169733	RFNG	705.2539669	0.513734058	0.01904953
ENSG00000177683	THAP5	453.4349625	0.513727654	0.026372132

ENSG00000184216	IRAK1	5716.062604	0.513533646	0.030121787
ENSG00000171469	ZNF561	560.742043	0.513442877	0.068913918
ENSG00000232040	ZBED9	59.97875128	0.513309417	0.421955416
ENSG00000106366	SERPINE1	30376.41973	0.513042768	0.116890056
ENSG00000102119	EMD	2341.067166	0.51269315	0.011521742
ENSG00000177728	TMEM94	7849.296434	0.512185227	0.150831424
ENSG00000163719	MTMR14	2414.870965	0.511951038	0.00806549
ENSG00000084754	HADHA	6341.653901	0.511862385	0.00586891
ENSG00000100167	SEPTIN3	4153.302839	0.510980198	0.035040333
ENSG00000249592	AC139887.2	101.9483869	0.510834363	0.241625037
ENSG00000237575	PYY2	25.08345452	0.510198718	0.552224511
ENSG00000157954	WIPI2	5544.206557	0.510133085	0.003505806
ENSG00000188706	ZDHHC9	2055.081843	0.510110752	0.009680704
ENSG00000240225	ZNF542P	72.96623156	0.510002502	0.278619467
ENSG00000245888	NSMCE1-DT	3.906053835	0.509841496	0.853343374
ENSG00000129460	NGDN	1440.201815	0.509533658	0.112408413
ENSG00000197054	ZNF763	66.01622184	0.509513834	0.452646381
ENSG00000103148	NPRL3	1473.708824	0.509508285	0.023091541
ENSG00000265417	AP005119.2	32.92925445	0.509378906	0.565577778
ENSG00000204920	ZNF155	84.05693217	0.509258164	0.281757317
ENSG00000086062	B4GALT1	18264.24534	0.509163028	0.015276483
ENSG00000238123	MID1IP1-AS1	8.058503659	0.509099904	0.74901277
ENSG00000149506	ZP1	57.05267739	0.509057702	0.395374445
ENSG00000141956	PRDM15	275.7008712	0.508780299	0.076995604

ENSG00000243083	LINC00870	8.508214721	0.508044027	0.724256606
ENSG00000149300	C11orf52	10.13717878	0.507778584	0.735280727
ENSG00000196976	LAGE3	594.0711633	0.507702228	0.08989815
ENSG00000130695	CEP85	20466.87631	0.507654601	0.210842951
ENSG00000280071	GATD3B	83.4617198	0.50742955	0.216819179
ENSG00000213218	CSH2	154.3581603	0.507336369	0.461789441
ENSG00000103264	FBXO31	720.8707282	0.507270701	0.053923034
ENSG00000109519	GRPEL1	2403.814688	0.506173674	0.008223939
ENSG00000265203	RBP3	5.922747299	0.50607413	0.777817805
ENSG00000163293	NIPAL1	61.52952136	0.506026693	0.320462092
ENSG00000198301	SDAD1	1640.554899	0.505988311	0.034449579
ENSG00000127578	WFIKKN1	57.38218648	0.505916356	0.424806683
ENSG00000175376	EIF1AD	3463.276041	0.505304596	0.019163302
ENSG00000197249	SERPINA1	132.577593	0.505202849	0.206092085
ENSG00000125971	DYNLRB1	103.4935863	0.505193493	0.208585654
ENSG00000169372	CRADD	205.546974	0.504926268	0.148348398
ENSG00000171703	TCEA2	240.2043381	0.504869078	0.145260787
ENSG00000138629	UBL7	1798.867019	0.504761696	0.023426786
ENSG00000116260	QSOX1	33218.09487	0.504695736	0.004792098
ENSG00000158089	GALNT14	10.16246913	0.504332963	0.696250953
ENSG00000123728	RAP2C	2171.76592	0.504293706	0.039626807
ENSG00000047597	XK	47.7713131	0.503796188	0.393716348
ENSG00000146830	GIGYF1	2298.869162	0.50372873	0.008465923
ENSG00000239305	RNF103	1364.704906	0.503631213	0.036096232

ENSG00000124587	PEX6	633.4491552	0.503440973	0.065862906
ENSG00000107537	PHYH	2417.177529	0.503374845	0.200221609
ENSG00000197153	HIST1H3J	31.27883315	0.503280263	0.528347974
ENSG00000286522	HIST1H3B	7.126740374	0.502987175	0.780273782
ENSG00000179583	CIITA	16.18527032	0.502737243	0.637125379
ENSG00000164761	TNFRSF11B	14.94244093	0.502575257	0.652417355
ENSG00000196961	AP2A1	13326.50757	0.50255977	0.10771689
ENSG00000132692	BCAN	29.87455371	0.502338113	0.489348569
ENSG00000280789	PAGR1	233.4525993	0.50225961	0.154265297
ENSG00000067064	IDI1	7197.045709	0.502212943	0.209910746
ENSG00000240849	TMEM189	3410.393945	0.50217542	0.032848709
ENSG00000198863	RUNDC1	646.4861085	0.502116071	0.104408181
ENSG00000100344	PNPLA3	183.9076612	0.50200498	0.370928513
ENSG00000177082	WDR73	123.484945	0.501975135	0.301491132
ENSG00000251669	FAM86EP	133.4154531	0.501818252	0.305172741
ENSG00000113578	FGF1	31.87913767	0.501475475	0.649443587
ENSG00000089876	DHX32	8564.546692	0.501270651	0.040997085
ENSG00000153012	LGI2	10.13184189	0.501112821	0.720040143
ENSG00000104497	SNX16	187.5101155	0.50108867	0.156187108
ENSG00000279026	AC005225.4	12.5751219	0.500551448	0.775251815
ENSG00000148399	DPH7	738.9616505	0.49985151	0.064100684
ENSG00000268362	AC092279.1	98.14577147	0.499626292	0.298674107
ENSG00000103978	TMEM87A	2206.645168	0.499600598	0.012468033
ENSG00000119431	HDHD3	2244.822118	0.499531777	0.110921456

ENSG00000142657	PGD	3148.404986	0.49949947	0.041050236
ENSG00000166471	TMEM41B	2977.022497	0.49933501	0.038222391
ENSG00000182858	ALG12	1299.069167	0.499311495	0.027291487
ENSG00000105327	BBC3	1096.530269	0.499222597	0.252494034
ENSG00000142002	DPP9	3039.996887	0.499101181	0.053110182
ENSG00000113108	APBB3	216.6396807	0.498967003	0.189169891
ENSG00000100216	TOMM22	2678.294845	0.498808258	0.022641773
ENSG00000185252	ZNF74	426.9176752	0.498558006	0.097870511
ENSG00000226688	ENTPD1-AS1	73.23504449	0.497835356	0.303138899
ENSG00000131174	COX7B	4616.885839	0.49746892	0.049869317
ENSG00000092330	TINF2	1311.116336	0.497322531	0.019885972
ENSG00000171302	CANT1	7267.669884	0.497150504	0.029615113
ENSG00000266962	AC067852.2	10.65994478	0.497084071	0.724753972
ENSG00000150995	ITPR1	968.106433	0.496894824	0.244967857
ENSG00000007545	CRAMP1	705.9509768	0.496515925	0.033442109
ENSG00000125895	TMEM74B	53.54429641	0.496146858	0.419130691
ENSG00000152942	RAD17	984.5833163	0.495607606	0.049487015
ENSG00000147488	ST18	7.828856927	0.49558228	0.759026436
ENSG00000065621	GSTO2	66.90854841	0.495504721	0.359744397
ENSG00000155115	GTF3C6	1447.97213	0.495135063	0.061556254
ENSG00000183530	PRR14L	2898.565112	0.494963912	0.010475689
ENSG00000186007	LEMD1	22.1059214	0.494735865	0.703271459
ENSG00000143162	CREG1	5875.67212	0.494602894	0.11454262
ENSG00000163050	COQ8A	499.0806831	0.494405546	0.026096946

ENSG00000205629	LCMT1	3337.824944	0.494354397	0.043605993
ENSG00000233901	LINC01503	17.55800689	0.494141265	0.667551735
ENSG00000090020	SLC9A1	18025.24138	0.493909078	0.0307385
ENSG00000100124	ANKRD54	575.1527759	0.493877112	0.144349446
ENSG00000147471	PLPBP	1650.501446	0.493777764	0.019106925
ENSG00000128626	MRPS12	1671.066187	0.493544698	0.026037497
ENSG00000169976	SF3B5	2880.698366	0.493429787	0.020083462
ENSG00000185615	PDIA2	11.60942035	0.493276758	0.721578909
ENSG00000130558	OLFM1	7.903389368	0.493263789	0.776570782
ENSG00000196218	RYR1	34.20608122	0.493118298	0.560800224
ENSG00000138600	SPPL2A	3583.763268	0.493072842	0.052929607
ENSG00000140750	ARHGAP17	3966.764042	0.493061605	0.034882741
ENSG00000121680	PEX16	448.5079663	0.492938859	0.059549365
ENSG00000198054	DSCR8	381.6404106	0.492920093	0.180048586
ENSG00000159322	ADPGK	2512.375767	0.492551721	0.028182738
ENSG00000109775	UFSP2	837.2755142	0.492509699	0.043905857
ENSG00000161405	IKZF3	8.468461233	0.492346383	0.80803191
ENSG00000158483	FAM86C1	122.4037109	0.492282947	0.201522323
ENSG00000139719	VPS33A	697.1992254	0.492218218	0.047391964
ENSG00000148187	MRRF	954.5041725	0.492136574	0.028477474
ENSG00000162517	PEF1	2675.061587	0.491881671	0.012843615
ENSG00000263345	AC006435.2	30.09243738	0.491691447	0.499142571
ENSG00000119718	EIF2B2	18622.35654	0.491550813	0.057579015
ENSG00000182326	C1S	45.25045475	0.491486863	0.474034299

ENSG00000108854	SMURF2	1417.488868	0.4911905	0.06779517
ENSG00000182173	TSEN54	788.1394872	0.491141326	0.109117354
ENSG00000247679	AC139795.2	13.17147189	0.491126597	0.644123988
ENSG00000262580	AC087741.1	52.40316602	0.490783511	0.356840561
ENSG00000112651	MRPL2	1431.54941	0.490751917	0.05335148
ENSG00000142583	SLC2A5	16.41737888	0.490682721	0.677282607
ENSG00000154813	DPH3	1347.692208	0.490612628	0.024991597
ENSG00000174353	STAG3L3	198.6324596	0.490489427	0.177293438
ENSG00000196236	XPNPEP3	638.9931542	0.490444416	0.036949172
ENSG00000215305	VPS16	1529.426132	0.489871677	0.030172604
ENSG00000137824	RMDN3	1620.841482	0.489739855	0.038958521
ENSG00000259673	IQCH-AS1	54.02600067	0.489475537	0.389340624
ENSG00000056097	ZFR	2799.799171	0.489194186	0.00939224
ENSG00000130177	CDC16	1681.080349	0.489076972	0.038797917
ENSG00000129749	CHRNA10	14.54369112	0.489057656	0.665700865
ENSG00000132535	DLG4	41.37876285	0.48896902	0.575909495
ENSG00000100079	LGALS2	64.58608076	0.488872102	0.392344987
ENSG00000010404	IDS	779.3583094	0.488556449	0.099951734
ENSG00000179978	AC140134.1	11.01492854	0.488455089	0.698390222
ENSG00000104613	INTS10	2365.168809	0.488402284	0.011276454
ENSG00000197989	SNHG12	879.2039759	0.488100973	0.16703991
ENSG00000213983	AP1G2	825.4550827	0.487832405	0.07502236
ENSG00000110697	PITPNM1	2758.449802	0.48757128	0.116892907
ENSG00000171853	TRAPPC12	775.0829796	0.487490505	0.016930477

ENSG00000147509	RGS20	81.99980745	0.487300147	0.242840111
ENSG00000141384	TAF4B	256.3834168	0.487146085	0.215870347
ENSG00000182687	GALR2	19.24976241	0.487025651	0.690859437
ENSG00000160445	ZER1	1691.652434	0.486808389	0.020273687
ENSG00000236700	LINC01010	3.699363051	0.486770173	0.867360438
ENSG00000168256	NKIRAS2	2376.2041	0.486724241	0.011823753
ENSG00000108821	COL1A1	2490.404623	0.486700396	0.055312126
ENSG00000100591	AHSA1	5464.322484	0.48658046	0.011241086
ENSG00000165030	NFIL3	3790.234808	0.486572719	0.024293157
ENSG00000229117	RPL41	25758.88997	0.486535842	0.011128169
ENSG00000140859	KIFC3	815.5498895	0.486522993	0.043394883
ENSG00000253846	PCDHGA10	123.5559639	0.486517243	0.195947634
ENSG00000102054	RBBP7	28216.56411	0.48643286	0.007626314
ENSG00000204291	COL15A1	12.49593953	0.486384576	0.67407665
ENSG00000127526	SLC35E1	4970.220224	0.486366535	0.102490277
ENSG00000186815	TPCN1	2576.629253	0.486359194	0.257131017
ENSG00000189114	BLOC1S3	1102.246771	0.486182967	0.040218414
ENSG00000197620	CXorf40A	685.1901803	0.485920155	0.17408027
ENSG00000267278	MAP3K14-AS1	24.84122113	0.485841125	0.586870146
ENSG00000234338	AC073349.2	52.57174515	0.485829405	0.503871795
ENSG00000127311	HELB	188.3092498	0.485738118	0.130451379
ENSG00000114850	SSR3	12625.67497	0.485635045	0.020893309
ENSG00000133424	LARGE1	4.786460243	0.485522288	0.852431483
ENSG00000135070	ISCA1	1388.246933	0.485382512	0.104704692

ENSG00000158793	NIT1	2117.503847	0.48533305	0.105328151
ENSG00000172757	CFL1	19881.45438	0.485260338	0.021280493
ENSG00000143294	PRCC	3932.472838	0.485079041	0.08998042
ENSG00000114480	GBE1	723.6792413	0.484981651	0.039057802
ENSG00000164484	TMEM200A	104.3694122	0.484981567	0.266019876
ENSG00000114779	ABHD14B	330.0712573	0.484968477	0.216683423
ENSG00000228288	PCAT6	145.965632	0.484740629	0.398945074
ENSG00000168453	HR	584.2723555	0.48447804	0.080252856
ENSG00000165682	CLEC1B	4.769898011	0.484037198	0.806457067
ENSG00000286207	AC012443.2	40.56390082	0.483806025	0.534941994
ENSG00000119986	AVPI1	3058.164539	0.483656576	0.173061997
ENSG00000246526	LINC002481	15.46728808	0.483573082	0.624451287
ENSG00000070010	UFD1	2522.708447	0.483560663	0.056607317
ENSG00000143353	LYPLAL1	621.7185185	0.483323622	0.205638976
ENSG00000177337	DLGAP1-AS1	189.3171637	0.483119808	0.270437346
ENSG00000285331	AC090517.5	17.80855036	0.483071219	0.591880808
ENSG00000165283	STOML2	4407.259878	0.483041453	0.018362949
ENSG00000183778	B3GALT5	7.737402059	0.482795149	0.729839025
ENSG00000147650	LRP12	16.74673238	0.482676749	0.68549902
ENSG00000126934	MAP2K2	5233.063176	0.482063247	0.047133371
ENSG00000126814	TRMT5	972.0667615	0.481855268	0.089099409
ENSG00000027847	B4GALT7	698.6773812	0.481827266	0.040036102
ENSG00000124370	MCEE	541.870165	0.48139331	0.116188934
ENSG00000234807	LINC01135	16.5261339	0.481325169	0.626797563

ENSG00000110315	RNF141	1470.383846	0.481152424	0.16883722
ENSG00000076248	UNG	2406.740822	0.480975878	0.01284482
ENSG00000214331	AC009053.1	16.24199965	0.480894199	0.628660613
ENSG00000226089	AL122017.1	11.70212681	0.480671969	0.690646055
ENSG00000167968	DNASE1L2	11.51642734	0.480337653	0.731748148
ENSG00000277662	AL354696.1	5.904047267	0.480228889	0.788561423
ENSG00000137168	PPIL1	1439.031378	0.480147418	0.063065579
ENSG00000005483	KMT2E	991.6966465	0.479952632	0.04137851
ENSG00000162441	LZIC	1256.630004	0.479749054	0.032448925
ENSG00000174032	SLC25A30	876.7863306	0.479713493	0.046550133
ENSG00000102543	CDADC1	89.9069996	0.479693717	0.242285226
ENSG00000173762	CD7	7.832630525	0.479680718	0.763697265
ENSG00000266306	AC061975.5	5.59049071	0.479227509	0.827090877
ENSG00000128463	EMC4	1998.4599	0.479104265	0.017215508
ENSG00000167653	PSCA	1141.348208	0.478744777	0.278619467
ENSG00000174332	GLIS1	6.760678447	0.478684571	0.814742399
ENSG00000162408	NOL9	1091.330898	0.478636814	0.114480419
ENSG00000260196	AC124798.1	16.13201028	0.478552982	0.730813997
ENSG00000005893	LAMP2	8582.239355	0.47852318	0.011839274
ENSG00000169914	OTUD3	1531.031225	0.478505975	0.092725083
ENSG00000167562	ZNF701	571.6754098	0.478502703	0.04216052
ENSG00000119801	YPEL5	3662.036675	0.478338228	0.017215508
ENSG00000161509	GRIN2C	25.46900735	0.478087513	0.577083279
ENSG00000227615	AP001324.1	96.7171469	0.478017298	0.26117115

ENSG00000105298	CACTIN	595.2101555	0.477979228	0.041051781
ENSG00000149716	LTO1	436.0185223	0.477358675	0.258798663
ENSG00000213542	AC007000.1	35.59267508	0.477033194	0.538188616
ENSG00000163877	SNIP1	653.0430774	0.47697509	0.112809235
ENSG00000101473	ACOT8	319.6086046	0.476808621	0.123505706
ENSG00000229131	AC016710.1	39.13716476	0.476759684	0.468495277
ENSG00000165238	WNK2	4361.912884	0.476469985	0.111269857
ENSG00000163743	RCHY1	633.3845184	0.476228019	0.053241689
ENSG00000123427	EEF1AKMT3	138.6477819	0.476108572	0.210842951
ENSG00000142186	SCYL1	9943.01723	0.476061824	0.043529405
ENSG00000142655	PEX14	1055.392346	0.475683533	0.047881874
ENSG00000188295	ZNF669	63.12885549	0.475616512	0.320304076
ENSG00000183751	TBL3	2999.024126	0.475557781	0.012871518
ENSG00000109618	SEPSECS	292.1960094	0.475448603	0.208828936
ENSG00000159733	ZFYVE28	4.811038679	0.475014419	0.805653326
ENSG00000173928	SWSAP1	70.62711425	0.47489778	0.303026996
ENSG00000136270	TBRG4	4539.533118	0.474788335	0.02288572
ENSG00000111711	GOLT1B	1554.903136	0.474759744	0.119328025
ENSG00000110851	PRDM4	693.1431439	0.47465252	0.045106231
ENSG00000136986	DERL1	2993.739086	0.474642583	0.008740824
ENSG00000145779	TNFAIP8	1305.087901	0.47458436	0.115120216
ENSG00000130332	LSM7	2610.390042	0.474456685	0.013293522
ENSG00000156411	ATP5MPL	4100.395461	0.474349436	0.015592049
ENSG00000235706	DICER1-AS1	21.11198853	0.474221199	0.653470936

ENSG00000119787	ATL2	2167.587151	0.474167165	0.019046507
ENSG00000133639	BTG1	20041.38754	0.473466423	0.032066185
ENSG00000112763	BTN2A1	481.7224683	0.473264357	0.167260419
ENSG00000287388	AC068774.1	7.447094733	0.473110516	0.801622174
ENSG00000136908	DPM2	2068.599502	0.47254039	0.017565085
ENSG00000086061	DNAJA1	18714.19644	0.472488481	0.125603938
ENSG00000050820	BCAR1	6910.496447	0.472463879	0.065224965
ENSG00000079277	MKNK1	654.1370927	0.47215222	0.051846033
ENSG00000230104	AC018712.1	8.526092236	0.472125957	0.791691848
ENSG00000065609	SNAP91	133.0372301	0.471758402	0.47578684
ENSG00000105877	DNAH11	11.77642792	0.47146637	0.697185391
ENSG00000230424	EMC1-AS1	11.91554073	0.470768505	0.782936053
ENSG00000105085	MED26	579.8135009	0.470478598	0.053801631
ENSG00000176171	BNIP3	1938.942648	0.470398579	0.053329578
ENSG00000157315	TMED6	7.788722565	0.470380028	0.740376765
ENSG00000204439	C6orf47	585.8883176	0.470359783	0.209304292
ENSG00000111424	VDR	23.22130697	0.470152356	0.639087653
ENSG00000163728	TTC14	315.7598409	0.470103075	0.154028684
ENSG00000244045	TMEM199	340.1195071	0.469687943	0.167601317
ENSG00000135845	PIGC	764.683033	0.469578189	0.10915046
ENSG00000005844	ITGAL	8.425869225	0.469569772	0.804250662
ENSG00000204356	NELFE	4322.079914	0.46894678	0.022952288
ENSG00000088992	TESC	15.04430455	0.468702348	0.66695079
ENSG00000131652	THOC6	1499.870613	0.468698287	0.085397087

ENSG00000225733	FGD5-AS1	2328.472494	0.468650844	0.035564576
ENSG00000165684	SNAPC4	319.0186814	0.468580359	0.394509027
ENSG00000116668	SWT1	392.7209923	0.46840095	0.0949955
ENSG00000105053	VRK3	1617.608045	0.468370811	0.015996595
ENSG00000275234	AC010503.4	250.3491649	0.468237917	0.125348759
ENSG00000214900	LINC01588	160.3049141	0.467869718	0.159335178
ENSG00000285872	AC007240.3	16.7490282	0.467815909	0.714130693
ENSG00000198912	C1orf174	1626.169418	0.46769807	0.02646128
ENSG00000130294	KIF1A	22.16925978	0.467595068	0.551380747
ENSG00000169905	TOR1AIP2	7348.659079	0.467539722	0.036227619
ENSG00000066379	ZNRD1	209.4369776	0.467414664	0.261065496
ENSG00000234009	RPL5P34	19.01097292	0.467160547	0.624830071
ENSG00000187801	ZFP69B	29.29192373	0.467075693	0.50478687
ENSG00000173950	XXYLT1	191.7403524	0.466804257	0.158817731
ENSG00000139537	CCDC65	20.99097418	0.466749125	0.636608123
ENSG00000174013	FBXO45	1025.320836	0.466508601	0.025870781
ENSG00000169762	TAPT1	396.6498438	0.466431948	0.118334261
ENSG00000112039	FANCE	3119.671104	0.466299368	0.030847919
ENSG00000160326	SLC2A6	23.44670159	0.466115443	0.686311388
ENSG00000227382	EIF4A2P2	5.588703958	0.46609501	0.81211646
ENSG00000176894	PXMP2	15.19068595	0.466094019	0.686496463
ENSG00000221883	ARIH2OS	10.59813762	0.465955627	0.70615987
ENSG00000204954	C12orf73	186.492881	0.465870288	0.153191501
ENSG00000179115	FARSA	7018.741724	0.465675176	0.024247125

ENSG00000012779	ALOX5	794.2532525	0.465618011	0.334083015
ENSG00000188162	OTOG	3.621001803	0.465350569	0.854123479
ENSG00000133101	CCNA1	17.46454242	0.465141673	0.632512655
ENSG00000126432	PRDX5	9424.543507	0.465025773	0.038958521
ENSG00000140632	GLYR1	4045.722297	0.464911009	0.018613026
ENSG00000173065	FAM222B	2084.152832	0.464868145	0.044129717
ENSG00000174136	RGMB	107.5348915	0.464241066	0.320622532
ENSG00000211452	DIO1	9.480341282	0.464170824	0.734761146
ENSG00000197021	CXorf40B	2385.857317	0.464109065	0.057079424
ENSG00000130311	DDA1	4080.660266	0.464076331	0.019994416
ENSG00000128524	ATP6V1F	2935.293138	0.464032846	0.066601206
ENSG00000147457	CHMP7	1728.720641	0.463858383	0.023980962
ENSG00000128609	NDUFA5	935.1077126	0.463772575	0.081984097
ENSG00000132581	SDF2	2118.508899	0.463664758	0.039411516
ENSG00000164902	PHAX	1417.283125	0.46365023	0.122679358
ENSG00000171246	NPTX1	13.16274137	0.463498342	0.732095045
ENSG00000198874	TYW1	1338.475085	0.463405047	0.018540341
ENSG00000160908	ZNF394	2110.172528	0.463373919	0.114550871
ENSG00000164532	TBX20	257.6255619	0.463302715	0.187353437
ENSG00000160058	BSDC1	3915.924111	0.463216355	0.045265879
ENSG00000170365	SMAD1	53.98346556	0.463110317	0.514922869
ENSG00000072274	TFRC	54031.84968	0.462920316	0.162416744
ENSG00000231064	AC234582.1	7.399672099	0.462629465	0.747517565
ENSG00000183726	TMEM50A	2279.704566	0.462555601	0.013408633

ENSG00000104529	EEF1D	2093.365109	0.462352289	0.022626496
ENSG00000182944	EWSR1	12377.01043	0.462351474	0.02480368
ENSG00000133805	AMPD3	2561.695339	0.462047505	0.176921923
ENSG00000229119	AC026403.1	96.63129355	0.462027454	0.321608949
ENSG00000130164	LDLR	10436.37761	0.461681607	0.349228336
ENSG00000101745	ANKRD12	796.0448819	0.461345352	0.070120427
ENSG00000105618	PRPF31	1398.427007	0.461203354	0.054215335
ENSG00000274173	AL035661.1	31.50839812	0.461145128	0.517992333
ENSG00000136717	BIN1	36.48917381	0.46074853	0.613203004
ENSG00000204338	CYP21A1P	8.215529732	0.459757503	0.730629881
ENSG00000170345	FOS	692.7621133	0.45967247	0.104135793
ENSG00000166337	TAF10	123.185155	0.459515947	0.354059947
ENSG00000108433	GOSR2	1218.870752	0.459367398	0.111585528
ENSG00000269343	ZNF587B	367.2677247	0.458957703	0.150575762
ENSG00000147255	IGSF1	8.826791082	0.458830772	0.732095045
ENSG00000100227	POLDIP3	4566.935379	0.45829878	0.01307421
ENSG00000170322	NFRKB	1604.003697	0.458186287	0.039262973
ENSG00000165322	ARHGAP12	693.7511694	0.457913464	0.148986085
ENSG00000152939	MARVELD2	861.3514009	0.457736753	0.042529949
ENSG00000286194	AC138207.9	4.390112357	0.457713291	0.841111328
ENSG00000142669	SH3BGRL3	1424.388402	0.457636835	0.027923882
ENSG00000178338	ZNF354B	631.1367252	0.457573483	0.071557108
ENSG00000099204	ABLIM1	200.6255781	0.457419127	0.199586891
ENSG00000108349	CASC3	6064.013129	0.457360922	0.026795589

ENSG00000179364	PACS2	598.890697	0.457338342	0.057312812
ENSG00000073605	GSDMB	143.3104461	0.457144637	0.303138899
ENSG00000197614	MFAP5	7853.482844	0.45711154	0.022268614
ENSG00000221867	MAGEA3	5.246982393	0.456988893	0.820018683
ENSG00000260625	AC026471.2	4.923379651	0.456942448	0.829070202
ENSG00000100239	PPP6R2	2809.094684	0.456812686	0.163610344
ENSG00000277170	AC012676.3	4.505722715	0.456664999	0.824745999
ENSG00000121542	SEC22A	652.2327665	0.456438483	0.036133461
ENSG00000247828	TMEM161B-AS1	118.3130687	0.456157488	0.210295095
ENSG00000182774	RPS17	153.0309447	0.456046881	0.298021236
ENSG00000164411	GJB7	575.7917663	0.456042682	0.128481709
ENSG00000270049	AC009061.2	4.185211089	0.455788523	0.868454388
ENSG00000162642	C1orf52	797.4385698	0.455760657	0.115901594
ENSG00000105643	ARRDC2	321.8906187	0.455626077	0.108811442
ENSG00000185361	TNFAIP8L1	1804.480845	0.455530129	0.363513179
ENSG00000206754	SNORD101	11.58025394	0.455514595	0.715848284
ENSG00000171219	CDC42BPG	4686.622324	0.455237062	0.050673474
ENSG00000237550	AC243919.1	291.2622433	0.455103687	0.122739088
ENSG00000204569	PPP1R10	3915.705089	0.454782387	0.047889898
ENSG00000120254	MTHFD1L	8409.383398	0.454662424	0.024438601
ENSG00000226853	AC010894.2	8.231220238	0.454609547	0.731714793
ENSG00000226054	MEMO1P1	19.53281869	0.454443146	0.613463271
ENSG00000155034	FBXL18	672.7589612	0.454423255	0.202213053
ENSG00000169131	ZNF354A	264.0716781	0.454409269	0.110824955

ENSG00000185359	HGS	3613.296532	0.454267444	0.018308115
ENSG00000163660	CCNL1	1680.2302	0.454052913	0.08423251
ENSG00000131507	NDFIP1	2124.192693	0.453950946	0.037918828
ENSG00000235545	AC103923.1	4.690861208	0.453850613	0.840675377
ENSG00000283050	GTF2IP12	101.4686591	0.453770502	0.428518123
ENSG00000273145	BX537318.1	7.008516826	0.453760326	0.795811994
ENSG00000168522	FNTA	3143.220239	0.453728655	0.081267671
ENSG00000171311	EXOSC1	1764.553435	0.45366897	0.031723864
ENSG00000168795	ZBTB5	944.220904	0.453610432	0.127507577
ENSG00000186141	POLR3C	630.1496222	0.453524851	0.120581585
ENSG00000132471	WBP2	7758.468256	0.453433225	0.12470668
ENSG00000267053	AC092296.2	122.4899873	0.453034872	0.40991343
ENSG00000087258	GNAO1	12.9323987	0.452904672	0.666190715
ENSG00000167515	TRAPPC2L	2485.161225	0.452826192	0.031967499
ENSG00000139725	RHOF	46.8612802	0.452236653	0.528106605
ENSG00000143320	CRABP2	29.29658998	0.45198315	0.665862117
ENSG00000183486	MX2	277.4346473	0.451932738	0.720932119
ENSG00000110321	EIF4G2	106925.5221	0.451772344	0.022767585
ENSG00000125871	MGME1	1362.050229	0.451667374	0.111035174
ENSG00000169714	CNBP	11182.93582	0.451644039	0.021637625
ENSG00000105136	ZNF419	363.2773194	0.451635986	0.149161327
ENSG00000149658	YTHDF1	3074.69369	0.451538158	0.021957504
ENSG00000214413	BBIP1	163.937218	0.451531499	0.179122184
ENSG00000219682	AL133268.1	10.22668291	0.451512279	0.742500414

ENSG00000258526	AL049828.1	28.30527242	0.451389463	0.581751802
ENSG00000188641	DPYD	6.41151666	0.451388886	0.77196502
ENSG00000117691	NENF	945.1395557	0.451327352	0.134932708
ENSG00000162722	TRIM58	630.365607	0.451251811	0.236147749
ENSG00000105204	DYRK1B	39.1493931	0.451168083	0.500171237
ENSG00000127483	HP1BP3	4372.924719	0.451140097	0.060302715
ENSG00000152127	MGAT5	2177.266509	0.451090495	0.21903574
ENSG00000150990	DHX37	1572.225317	0.450671744	0.21143613
ENSG00000122068	FYTTD1	3625.975217	0.45063439	0.047121056
ENSG00000236054	Z82246.1	4.632452593	0.450472513	0.862919798
ENSG00000275897	AC021491.4	5.375130004	0.450177499	0.841672096
ENSG00000184207	PGP	2195.18447	0.450154888	0.023744414
ENSG00000136819	C9orf78	1979.593678	0.450097579	0.052255185
ENSG00000131979	GCH1	518.9954274	0.450070359	0.156209183
ENSG00000187627	RGPD1	162.1165294	0.449987464	0.320102196
ENSG00000120688	WBP4	644.2493456	0.449729441	0.07722808
ENSG00000228878	SEPTIN7-AS1	16.12080927	0.449728543	0.640625931
ENSG00000124172	ATP5F1E	2744.39802	0.44931916	0.050022977
ENSG00000101216	GMEB2	1404.736146	0.449122414	0.028101644
ENSG00000004142	POLDIP2	4699.510528	0.44890614	0.044427653
ENSG00000134324	LPIN1	772.2633019	0.4488665	0.347133271
ENSG00000164096	C4orf3	1065.659325	0.448790542	0.089946697
ENSG00000100983	GSS	1531.036583	0.448699579	0.10252671
ENSG00000118181	RPS25	14189.80092	0.448683448	0.018269399

ENSG00000131116	ZNF428	212.0118996	0.448507041	0.247187666
ENSG00000213178	RPL22P1	96.77239583	0.448089314	0.288914016
ENSG00000180801	ARSJ	11.82727304	0.447650367	0.720867621
ENSG00000176783	RUFY1	1556.340104	0.4474135	0.047456317
ENSG00000133627	ACTR3B	309.3610746	0.447157008	0.279008353
ENSG00000115216	NRBP1	7819.04155	0.447134935	0.031285126
ENSG00000183091	NEB	193.3382861	0.446904817	0.146342181
ENSG00000122484	RPAP2	698.1681036	0.446298935	0.049569617
ENSG00000197497	ZNF665	147.5845677	0.445922946	0.320229152
ENSG00000145757	SPATA9	6.936114032	0.445764716	0.825629352
ENSG00000165476	REEP3	4935.755573	0.445760086	0.030560883
ENSG00000236432	AC097662.1	5.728500466	0.44575537	0.855387261
ENSG00000146409	SLC18B1	744.6409734	0.445727224	0.060235203
ENSG00000183401	CCDC159	67.18485971	0.445724535	0.376303544
ENSG00000164543	STK17A	2865.622022	0.445347039	0.100350683
ENSG00000048162	NOP16	906.6078746	0.445282469	0.312500275
ENSG00000223501	VPS52	1478.55864	0.445218766	0.053487057
ENSG00000197779	ZNF81	74.15000576	0.445179271	0.341026481
ENSG00000134248	LAMTOR5	1114.114624	0.445113833	0.037167567
ENSG00000159556	ISL2	67.51145318	0.444994047	0.39932353
ENSG00000197345	MRPL21	897.0489341	0.444869196	0.079470747
ENSG00000246273	SBF2-AS1	139.5510252	0.444807567	0.265648901
ENSG00000109452	INPP4B	192.2710453	0.444807005	0.258131952
ENSG00000271826	PLS3-AS1	9.86628892	0.444704631	0.730630097

ENSG00000100243	CYB5R3	4545.175064	0.444093111	0.08776975
ENSG00000274020	LINC01138	77.23154312	0.443907147	0.379418102
ENSG00000159692	CTBP1	1476.487227	0.443850114	0.028008575
ENSG00000177646	ACAD9	2403.602336	0.443641132	0.047703037
ENSG00000125122	LRRC29	9.314236013	0.443588632	0.753650618
ENSG00000068400	GRIPAP1	1988.800583	0.44358855	0.023022768
ENSG00000013563	DNASE1L1	334.5672358	0.44351043	0.340117089
ENSG00000232310	AL078590.2	416.2639467	0.443499599	0.090631917
ENSG00000197566	ZNF624	155.0799416	0.442909774	0.238020512
ENSG00000109332	UBE2D3	14612.36266	0.442624476	0.021044545
ENSG00000100319	ZMAT5	146.2585252	0.442602371	0.238227819
ENSG00000240857	RDH14	261.8670795	0.442415516	0.169735805
ENSG00000258366	RTEL1	32.39450338	0.44238467	0.562966057
ENSG00000213762	ZNF134	1094.91209	0.44233743	0.109163345
ENSG00000272047	GTF2H5	1001.240685	0.442290453	0.139643265
ENSG00000225484	NUTM2B-AS1	192.1574908	0.44225411	0.311302271
ENSG00000145337	PYURF	1371.303544	0.442251084	0.0690123
ENSG00000233124	LINC00456	461.4287877	0.442075664	0.461492846
ENSG00000251258	RFPL4B	3.628909193	0.441999745	0.894715105
ENSG00000187531	SIRT7	2931.913976	0.441979524	0.124888046
ENSG00000179010	MRFAP1	7475.674088	0.441474903	0.018825055
ENSG00000106991	ENG	14874.82625	0.441397434	0.134644876
ENSG00000173992	CCS	756.2037693	0.441217485	0.059809128
ENSG00000119487	MAPKAP1	3466.69287	0.441210352	0.037600472

ENSG00000169599	NFU1	1606.287754	0.441135101	0.055118011
ENSG00000218018	AL109955.1	14.51901747	0.440879428	0.740161746
ENSG00000144802	NFKBIZ	120.3509885	0.440253493	0.383140604
ENSG00000129988	LBP	123.2096308	0.44000488	0.520651186
ENSG00000124299	PEPD	1357.135324	0.439926412	0.082237605
ENSG00000125637	PSD4	3252.118691	0.439809307	0.04342126
ENSG00000106853	PTGR1	758.6713904	0.439620085	0.136138007
ENSG00000170954	ZNF415	467.7821963	0.43954046	0.108311413
ENSG00000145916	RMND5B	975.8461133	0.439510844	0.068501243
ENSG00000153250	RBMS1	5329.278071	0.439252897	0.029367968
ENSG00000119965	C10orf88	169.7321769	0.439054826	0.301102427
ENSG00000247077	PGAM5	2000.179378	0.439018978	0.124685036
ENSG00000188015	S100A3	40.87649706	0.439018678	0.53756695
ENSG00000180329	CCDC43	1227.357647	0.438836937	0.046479524
ENSG00000137288	UQCC2	545.3862421	0.438765642	0.136138007
ENSG00000281649	EBLN3P	851.5051359	0.438699294	0.148150445
ENSG00000141698	NT5C3B	979.6986534	0.438537667	0.038595994
ENSG00000215251	FASTKD5	1320.737653	0.438397429	0.091693414
ENSG00000222345	SNORD19C	6.327842467	0.438244391	0.829105136
ENSG00000279089	AC005839.1	23.28304713	0.438149932	0.656068609
ENSG00000196812	ZSCAN16	63.26159646	0.438121172	0.481178414
ENSG00000272693	AC073107.1	21.20456342	0.43803763	0.622092854
ENSG00000026103	FAS	20.45986606	0.437659296	0.789423641
ENSG00000157593	SLC35B2	2447.090137	0.437604191	0.019536384

ENSG00000089060	SLC8B1	867.1664394	0.437350123	0.10445829
ENSG00000165669	FAM204A	568.08228	0.437251307	0.114947359
ENSG00000140104	CLBA1	55.2925937	0.437115643	0.620025362
ENSG00000139505	MTMR6	1489.899762	0.437050469	0.10377212
ENSG00000286034	AC100822.1	6.306018615	0.436911523	0.832692785
ENSG00000130758	MAP3K10	198.6905634	0.436786242	0.181167919
ENSG00000077264	PAK3	1439.917754	0.436725574	0.264857681
ENSG00000162512	SDC3	3352.698284	0.436050859	0.06824261
ENSG00000160181	TFF2	41.53337369	0.43591212	0.482993756
ENSG00000007376	RPUSD1	1499.803348	0.435893703	0.222646517
ENSG00000115946	PNO1	985.571566	0.435789713	0.218925377
ENSG00000112695	COX7A2	4271.60225	0.435547782	0.050958294
ENSG00000257557	PPP1R12A-AS1	20.95087302	0.43532172	0.660822449
ENSG00000214530	STARD10	9344.329233	0.43505364	0.043605993
ENSG00000034053	APBA2	10.59909148	0.434729098	0.729242154
ENSG00000272604	AC073073.2	14.18259788	0.43452417	0.768879137
ENSG00000178896	EXOSC4	809.412478	0.434432749	0.103592485
ENSG00000157020	SEC13	13468.10841	0.434386634	0.026732986
ENSG00000214078	CPNE1	3965.549576	0.434199917	0.056453321
ENSG00000152409	JMY	1416.448305	0.434183609	0.097123795
ENSG00000160570	DEDD2	2647.753802	0.433856703	0.092821683
ENSG00000007255	TRAPPC6A	353.9490767	0.433676237	0.180484279
ENSG00000260361	AC106028.3	7.181129921	0.433650795	0.83512849
ENSG00000107758	PPP3CB	1262.065682	0.433091334	0.107442608

ENSG00000197483	ZNF628	285.7562216	0.433084844	0.2175462
ENSG00000272079	AC004233.2	50.60278781	0.432979422	0.491205816
ENSG00000135951	TSGA10	72.88964551	0.432905711	0.367606975
ENSG00000139826	ABHD13	307.4645968	0.432840626	0.137933473
ENSG00000140332	TLE3	6614.411216	0.432697776	0.152368252
ENSG00000240370	RPL13P5	15.54473067	0.432657841	0.71081212
ENSG00000144741	SLC25A26	545.3285469	0.43259185	0.091547281
ENSG00000196470	SIAH1	3994.762163	0.432555089	0.121537765
ENSG00000139263	LRIG3	13.11052152	0.431976056	0.696250953
ENSG00000157350	ST3GAL2	89.91664491	0.431749209	0.348722729
ENSG00000180198	RCC1	3920.986796	0.431277006	0.057968318
ENSG00000248008	NRAV	64.47610377	0.430891638	0.559170875
ENSG00000122085	MTERF4	528.4882039	0.430739777	0.177843162
ENSG00000136643	RPS6KC1	832.1608891	0.43069872	0.125603938
ENSG00000136261	BZW2	16495.74104	0.430638852	0.072704588
ENSG00000224975	INE1	23.38618159	0.430603883	0.619623893
ENSG00000225507	AC069282.1	21.90503896	0.430583638	0.704428463
ENSG00000125046	SSUH2	5.876291664	0.430397255	0.851348679
ENSG00000136830	NIBAN2	35616.25722	0.430358171	0.070040685
ENSG00000128159	TUBGCP6	1208.461758	0.430305817	0.157600162
ENSG00000130876	SLC7A10	11.17767714	0.430030104	0.732485753
ENSG00000167985	SDHAF2	398.1459232	0.429928259	0.238198824
ENSG00000196150	ZNF250	57.80109187	0.429566445	0.412659616
ENSG00000185019	UBOX5	264.7931873	0.429565407	0.213804155

ENSG00000164615	CAMLG	959.4739074	0.429493291	0.044700995
ENSG00000049130	KITLG	6.50471614	0.429429752	0.801070374
ENSG00000137040	RANBP6	623.0549833	0.429099262	0.092500727
ENSG00000173915	ATP5MD	2051.408802	0.429081106	0.060623237
ENSG00000147905	ZCCHC7	931.3244618	0.428910626	0.095052452
ENSG00000204311	PJVK	5.843435269	0.428870186	0.807764824
ENSG00000124215	CDH26	10.59668162	0.428841417	0.755972689
ENSG00000117408	IPO13	460.2852464	0.428360624	0.168274307
ENSG00000265681	RPL17	506.8586859	0.428310725	0.074099967
ENSG00000167487	KLHL26	157.0510805	0.428202023	0.320462092
ENSG00000148219	ASTN2	37.80548149	0.427914818	0.5423293
ENSG00000179776	CDH5	63388.33665	0.427669628	0.106662529
ENSG00000101665	SMAD7	5425.134539	0.427661688	0.184639606
ENSG00000168439	STIP1	19112.69511	0.427626453	0.021981623
ENSG00000154710	RABGEF1	173.2699471	0.427595416	0.169938213
ENSG00000108439	PNPO	64.07292832	0.42757585	0.445187954
ENSG00000112297	CRYBG1	11192.95371	0.427483421	0.09858934
ENSG00000169139	UBE2V2	2233.499351	0.427417852	0.037907676
ENSG00000246263	UBR5-AS1	35.58683952	0.427182905	0.66211031
ENSG00000214029	ZNF891	66.24800123	0.427161244	0.372964463
ENSG00000131238	PPT1	4914.506944	0.427142698	0.044233131
ENSG00000125611	CHCHD5	448.3472333	0.427063895	0.133192837
ENSG00000198258	UBL5	1594.456005	0.427027393	0.04622599
ENSG00000131475	VPS25	3655.451522	0.42699772	0.049308759

ENSG00000237651	C2orf74	20.53052313	0.426950348	0.674435099
ENSG00000169442	CD52	12.05141839	0.426847195	0.72386296
ENSG00000160712	IL6R	10.38787577	0.42675307	0.844705856
ENSG00000188681	TEKT4P2	57.98739228	0.426688215	0.457756203
ENSG00000174227	PIGG	1346.158095	0.426561292	0.05772318
ENSG00000108588	CCDC47	6983.741177	0.42654557	0.071800097
ENSG00000162415	ZSWIM5	6.42517818	0.426377512	0.807764824
ENSG00000079482	OPHN1	5031.344786	0.426167017	0.317469084
ENSG00000163531	NFASC	6.856698519	0.425965822	0.833162999
ENSG00000115137	DNAJC27	59.67727407	0.425867015	0.464998674
ENSG00000180900	SCRIB	3728.080677	0.42579375	0.085395501
ENSG00000174951	FUT1	68.15719798	0.42553861	0.570419159
ENSG00000185278	ZBTB37	378.7526043	0.425103541	0.165622736
ENSG00000126088	UROD	675.9113412	0.424949712	0.075251408
ENSG00000164548	TRA2A	1782.409786	0.424752474	0.102060008
ENSG00000189164	ZNF527	119.1205564	0.424729659	0.298322036
ENSG00000188997	KCTD21	508.3932046	0.424654509	0.182107393
ENSG00000127989	MTERF1	138.7658757	0.424630348	0.317956277
ENSG00000124160	NCOA5	669.9888409	0.424462402	0.408657075
ENSG00000102057	KCND1	47.75361865	0.424270061	0.608763517
ENSG00000198791	CNOT7	3235.439622	0.424255629	0.044876164
ENSG00000223508	RPL23AP53	38.52548903	0.424129636	0.592500463
ENSG00000047346	FAM214A	2269.606062	0.42392049	0.099494748
ENSG00000135316	SYNCRIP	8025.356198	0.423878747	0.021967298

ENSG00000007402	CACNA2D2	8.459738854	0.423807008	0.747887335
ENSG00000166887	VPS39	2547.037626	0.423452423	0.070989504
ENSG00000231113	AL035587.1	17.77470441	0.42323363	0.656068609
ENSG00000118900	UBN1	1732.13368	0.423061702	0.094475993
ENSG00000245904	AC025164.1	60.87998517	0.422703429	0.413999338
ENSG00000149600	COMMD7	879.2919675	0.422606229	0.108730813
ENSG00000164011	ZNF691	118.4153394	0.422268622	0.320820129
ENSG00000164603	BMT2	368.4306655	0.422164222	0.20362429
ENSG00000267372	AC005330.1	9.769102753	0.422163443	0.827331334
ENSG00000133056	PIK3C2B	10237.22698	0.422132114	0.223796921
ENSG00000158258	CLSTN2	14.49184674	0.422116684	0.686832638
ENSG00000132661	NXT1	390.7270915	0.422084612	0.093723016
ENSG00000196937	FAM3C	2182.577114	0.42174916	0.031356309
ENSG00000102858	MGRN1	2330.605026	0.421737728	0.051897009
ENSG00000175591	P2RY2	85.59636382	0.421647853	0.333400888
ENSG00000162975	KCNF1	6.51262353	0.42164711	0.80611113
ENSG00000237852	AC119800.1	12.01496278	0.421646481	0.753683559
ENSG00000224831	TMEM183B	42.92782771	0.421510319	0.506825277
ENSG00000168924	LETM1	2706.637635	0.421264085	0.074517912
ENSG00000103811	CTSH	1920.412586	0.421125942	0.201457167
ENSG00000177854	TMEM187	298.6406245	0.421010319	0.317905507
ENSG00000170190	SLC16A5	1381.106653	0.420978407	0.684576753
ENSG00000008018	PSMB1	10553.57729	0.420927906	0.058378584
ENSG00000229666	MAST4-AS1	115.2168773	0.420479895	0.381596972

ENSG00000277957	SENP3-EIF4A1	6.435467212	0.420472904	0.792927496
ENSG00000204396	VWA7	10.17702236	0.420415285	0.759992676
ENSG00000139631	CSAD	146.9710494	0.420347661	0.302979528
ENSG00000086589	RBM22	3222.321904	0.420004245	0.06950155
ENSG00000133619	KRBA1	290.8563483	0.419923163	0.195481926
ENSG00000197043	ANXA6	22478.51078	0.419810662	0.212237878
ENSG00000135720	DYNC1LI2	4931.458107	0.419574009	0.05335148
ENSG00000111817	DSE	1755.816564	0.419447447	0.110137429
ENSG00000187010	RHD	7.509156038	0.419446399	0.780367913
ENSG00000284707	AC079781.5	3.884468551	0.419435889	0.866649626
ENSG00000169223	LMAN2	14854.23381	0.419325223	0.036635944
ENSG00000136878	USP20	1019.262725	0.419214955	0.134867003
ENSG00000162819	BROX	949.9961864	0.419182906	0.049362779
ENSG00000228223	HCG11	37.28269246	0.419158701	0.640625931
ENSG00000110717	NDUFS8	1359.367818	0.4191512	0.040752383
ENSG00000169612	RAMAC	241.2429596	0.419038337	0.180914838
ENSG00000117751	PPP1R8	1716.909796	0.418854036	0.095443176
ENSG00000232630	PRPS1P2	12.90285358	0.418764283	0.719931202
ENSG00000102978	POLR2C	2369.056038	0.418614718	0.07146836
ENSG00000126749	EMG1	1774.824018	0.41842858	0.076095111
ENSG00000225071	AC004552.1	7.737997552	0.41839724	0.790434082
ENSG00000120837	NFYB	1452.113022	0.418388527	0.192052437
ENSG00000134153	EMC7	2501.052049	0.418346051	0.048729795
ENSG00000184616	SPDYE12P	9.779669165	0.418327194	0.758227146

ENSG00000130545	CRB3	727.405626	0.418285352	0.100524953
ENSG00000171453	POLR1C	1005.300784	0.418231865	0.266481432
ENSG00000176593	AC008969.1	56.18593937	0.418066725	0.458266206
ENSG00000160214	RRP1	2035.826445	0.417781541	0.142799897
ENSG00000198455	ZXDB	302.3338435	0.4176308	0.195069323
ENSG00000134258	VTCN1	50.74201455	0.417610198	0.530051958
ENSG00000116138	DNAJC16	658.8717544	0.417546219	0.137933473
ENSG00000107984	DKK1	31.39877328	0.417485322	0.55480883
ENSG00000026297	RNASET2	150.4480302	0.417314271	0.236060543
ENSG00000267040	AC027097.1	37.17311811	0.417289806	0.550711111
ENSG00000227533	SLC2A1-AS1	22.00888838	0.41714356	0.66753844
ENSG00000251323	LINC02728	7.526732728	0.417069503	0.810151739
ENSG00000214274	ANG	29.85290177	0.416935296	0.63000379
ENSG00000100568	VTI1B	1638.226565	0.416832701	0.053988481
ENSG00000180438	TPRXL	583.3547846	0.41625773	0.416797222
ENSG00000075785	RAB7A	11285.64613	0.416211377	0.024023773
ENSG00000137275	RIPK1	1042.248232	0.416199809	0.183515148
ENSG00000143093	STRIP1	2011.299693	0.415966269	0.049487015
ENSG00000265658	MIR3690	4.452254649	0.415761359	0.88815903
ENSG00000162105	SHANK2	5563.511766	0.415442183	0.198164508
ENSG00000283341	AC068205.2	7.852493335	0.415109525	0.77814097
ENSG00000120533	ENY2	939.8527707	0.415007566	0.092353937
ENSG00000234432	AC092171.3	16.72561192	0.414985744	0.707604947
ENSG00000149923	PPP4C	5909.249271	0.414830517	0.034630109

ENSG00000196588	MRTFA	1380.928789	0.41475079	0.060623237
ENSG00000160767	FAM189B	614.3526241	0.414726099	0.224900655
ENSG00000110801	PSMD9	157.3220314	0.414694495	0.26941076
ENSG00000114796	KLHL24	1574.602919	0.414686601	0.193555722
ENSG00000100029	PES1	4297.979363	0.414515863	0.094270521
ENSG00000271926	AC008972.1	9.156353817	0.414258332	0.831192561
ENSG00000128309	MPST	1155.625367	0.414228763	0.206092085
ENSG00000160446	ZDHHC12	1324.933877	0.414220223	0.129700168
ENSG00000273763	AC007318.2	5.800175259	0.414048323	0.82153068
ENSG00000157379	DHRS1	1226.530709	0.413877473	0.222026824
ENSG00000175182	FAM131A	4273.696914	0.413515897	0.167498927
ENSG00000141570	CBX8	187.3411856	0.413120029	0.267617417
ENSG00000196182	STK40	12517.65661	0.412930054	0.131809319
ENSG00000140521	POLG	2966.119459	0.412604075	0.163506871
ENSG00000068971	PPP2R5B	693.8541589	0.412536893	0.075529492
ENSG00000006712	PAF1	3054.065586	0.412487114	0.107088678
ENSG00000260917	AL158212.3	47.26816134	0.412035041	0.565601883
ENSG00000183354	KIAA2026	462.8479633	0.411947184	0.088431121
ENSG00000270605	AL353622.1	16.29668785	0.411777156	0.718833452
ENSG00000228162	AC097713.1	424.070609	0.411616629	0.286287794
ENSG00000124209	RAB22A	795.2986234	0.411500471	0.069436837
ENSG00000126522	ASL	503.0571108	0.411279604	0.188270046
ENSG00000135111	TBX3	16847.89655	0.411013726	0.076302472
ENSG00000186715	MST1L	7.748439077	0.410912267	0.798008385

ENSG00000172752	COL6A5	27.03351774	0.410827386	0.693884051
ENSG00000065268	WDR18	1472.031506	0.410815831	0.077131046
ENSG00000180015	AC093909.1	9.584076622	0.410699408	0.796710525
ENSG00000118363	SPCS2	5890.720458	0.4106151	0.028776249
ENSG00000159461	AMFR	1264.756247	0.410190529	0.106314578
ENSG00000184100	BRD7P2	9.208234358	0.409910129	0.748473002
ENSG00000106603	COA1	1137.245222	0.409784295	0.121415379
ENSG00000122482	ZNF644	352.0019475	0.40969477	0.177757473
ENSG00000104343	UBE2W	890.3108227	0.409488787	0.304417007
ENSG00000159479	MED8	1890.425152	0.409065498	0.095992064
ENSG00000144567	RETREG2	2053.280286	0.408828054	0.057240151
ENSG00000092200	RPGRIP1	160.3802733	0.408721973	0.355655533
ENSG00000106004	HOXA5	3.961422372	0.407907387	0.856841675
ENSG00000205250	E2F4	6471.166724	0.407859698	0.124565684
ENSG00000140990	NDUFB10	2831.62067	0.407749306	0.0690123
ENSG00000126368	NR1D1	108.5306437	0.407730539	0.317711427
ENSG00000286379	AL591845.1	36.2712947	0.407678516	0.642486014
ENSG00000180611	MB21D2	1352.041366	0.407644941	0.206092085
ENSG00000107404	DVL1	6056.596244	0.407605169	0.198989544
ENSG00000135698	MPHOSPH6	1001.788416	0.40757151	0.153057954
ENSG00000104973	MED25	1507.373237	0.407458578	0.12222406
ENSG00000287642	AC093599.2	30.08978669	0.407449614	0.637141928
ENSG00000034533	ASTE1	125.0727165	0.407313019	0.328082636
ENSG00000147123	NDUFB11	2236.455861	0.407297693	0.138826729

ENSG00000163444	TMEM183A	2572.694781	0.407211665	0.067828197
ENSG00000171135	JAGN1	701.5950844	0.407206585	0.267830285
ENSG00000136925	TSTD2	387.9422972	0.40716971	0.127757729
ENSG00000109472	CPE	40.59804935	0.406708574	0.519948644
ENSG00000153930	ANKFN1	37.74424347	0.406702119	0.614260476
ENSG00000133997	MED6	703.3544294	0.406588088	0.177293438
ENSG00000109016	DHRS7B	1083.998822	0.406136084	0.09858934
ENSG00000253352	TUG1	2322.205834	0.406132411	0.076784591
ENSG00000060138	YBX3	6212.841609	0.406100351	0.072477604
ENSG00000113645	WWC1	10008.03983	0.40588524	0.08233514
ENSG00000100395	L3MBTL2	1518.139929	0.405693727	0.120697064
ENSG00000285589	AC010422.8	12.10389952	0.405554444	0.758819628
ENSG00000162385	MAGOH	1531.265001	0.40553379	0.165622736
ENSG00000104852	SNRNP70	8881.354424	0.405174813	0.053779223
ENSG00000160959	LRRC14	520.5337081	0.405170335	0.191781628
ENSG00000224167	LINC01357	21.39838805	0.405135706	0.647956864
ENSG00000223820	CFL1P1	39.66894121	0.404591853	0.554754241
ENSG00000011523	CEP68	3827.803355	0.40448907	0.173048878
ENSG00000114021	NIT2	941.3294675	0.404416112	0.078504092
ENSG00000105221	AKT2	4560.226165	0.404262799	0.148150445
ENSG00000173113	TRMT112	5450.032741	0.404165084	0.041064759
ENSG00000133275	CSNK1G2	2264.292999	0.403850937	0.150055066
ENSG00000100353	EIF3D	18301.54847	0.403280138	0.069615204
ENSG00000102032	RENBP	36.83648187	0.40324279	0.521334663

ENSG00000115275	MOGS	13523.45415	0.403219297	0.142741711
ENSG00000197555	SIPA1L1	5173.857991	0.403195788	0.068975584
ENSG00000188986	NELFB	2316.083844	0.402896097	0.057722434
ENSG00000088298	EDEM2	3541.602543	0.402741185	0.061932751
ENSG00000205771	CATSPER2P1	39.54607036	0.402639251	0.620562413
ENSG00000177427	MIEF2	254.4879029	0.402559391	0.22494187
ENSG00000116786	PLEKHM2	3467.017703	0.402365745	0.114243971
ENSG00000163344	PMVK	945.9604283	0.401849551	0.11461909
ENSG00000148337	CIZ1	2791.210242	0.401600553	0.157331706
ENSG00000146278	PNRC1	681.9003715	0.401401447	0.131269666
ENSG00000166793	YPEL4	939.0431046	0.401164867	0.365118357
ENSG00000166016	ABTB2	14798.27067	0.401148801	0.176744192
ENSG00000111790	FGFR1OP2	898.6630658	0.400977321	0.133649886
ENSG00000143995	MEIS1	22.96003033	0.400962289	0.637386844
ENSG00000087128	TMPRSS11E	44.21016293	0.400897668	0.571902873
ENSG00000123643	SLC36A1	619.6160757	0.400874565	0.128372028
ENSG00000251634	AC145138.1	6.910665409	0.400517333	0.804751623
ENSG00000079313	REXO1	1878.019005	0.400395443	0.066883601
ENSG00000051620	HEBP2	2270.81155	0.400381803	0.062468833
ENSG00000131080	EDA2R	738.167141	0.400275636	0.133649886
ENSG00000166275	BORCS7	338.315145	0.400138414	0.231784555
ENSG00000246082	NUDT16P1	42.59121336	0.400125687	0.656536512
ENSG00000101361	NOP56	8771.777999	0.40001328	0.215615059
ENSG00000115289	PCGF1	1169.618402	0.399940457	0.214492911

ENSG00000166797	CIAO2A	988.5982846	0.399847313	0.085566424
ENSG00000270647	TAF15	7645.933432	0.399758776	0.038922939
ENSG00000213672	NCKIPSD	1300.105115	0.399711832	0.093717018
ENSG00000101194	SLC17A9	23.04839979	0.399613591	0.631034242
ENSG00000102309	PIN4	620.3639219	0.399339101	0.141774649
ENSG00000176182	MYPOP	308.7645764	0.399022403	0.217692909
ENSG00000129197	RPAIN	684.6205302	0.398970959	0.184753502
ENSG00000279159	AC003681.1	55.94641699	0.398939653	0.568837706
ENSG00000164920	OSR2	84.09431809	0.398858524	0.416298004
ENSG00000269906	AL606834.1	20.79641279	0.398810354	0.717238602
ENSG00000204070	SYS1	900.2664483	0.398570025	0.115378108
ENSG00000106993	CDC37L1	569.0743855	0.398163083	0.246246444
ENSG00000133661	SFTPD	7.710842228	0.39808645	0.790190381
ENSG00000122674	CCZ1	770.5388367	0.397894658	0.066236618
ENSG00000286118	AC234031.1	69.36292047	0.397886931	0.450924574
ENSG00000126391	FRMD8	1104.427647	0.397835869	0.115515125
ENSG00000228434	AC004951.1	6.603462646	0.397485957	0.812279787
ENSG00000178252	WDR6	4251.964331	0.397444129	0.035316187
ENSG00000287086	AC034193.1	86.01034986	0.397423052	0.469702817
ENSG00000146109	ABT1	1705.496723	0.397284832	0.073899648
ENSG00000167085	PHB	4880.57309	0.397259586	0.04141859
ENSG00000121350	PYROXD1	494.6645517	0.397041801	0.165253305
ENSG00000230562	FAM133DP	13.92605718	0.39699674	0.727466923
ENSG00000240087	RPSAP12	16.71108482	0.396695054	0.707184586

ENSG00000197358	BNIP3P1	7.368591286	0.396601553	0.804077729
ENSG00000160972	PPP1R16A	401.5572061	0.396556374	0.183841203
ENSG00000103356	EARS2	715.380745	0.396212627	0.128448835
ENSG00000162065	TBC1D24	281.6546924	0.395944577	0.225804846
ENSG00000085231	AK6	761.5684309	0.395686631	0.112603131
ENSG00000170631	ZNF16	64.8490809	0.395645213	0.50948782
ENSG00000155761	SPAG17	31.6950621	0.395627138	0.6042975
ENSG00000146433	TMEM181	1307.779544	0.395554437	0.268068446
ENSG00000232472	EEF1B2P3	93.30173322	0.395538686	0.368257926
ENSG00000205583	STAG3L1	25.34304957	0.395536159	0.616545106
ENSG00000134253	TRIM45	176.5792104	0.395445564	0.477760755
ENSG00000148175	STOM	1098.78627	0.395380517	0.203380089
ENSG00000141564	RPTOR	1567.922948	0.395370737	0.099994692
ENSG00000083817	ZNF416	243.9777414	0.395103128	0.329276394
ENSG00000244468	AC093001.1	42.45097466	0.395037286	0.605469851
ENSG00000170638	TRABD	3439.045084	0.394861655	0.090766721
ENSG00000256338	RPL41P2	6.807096847	0.39472535	0.803784163
ENSG00000182957	SPATA13	2623.382747	0.39466973	0.064952089
ENSG00000133884	DPF2	3921.576887	0.394458208	0.038355701
ENSG00000117118	SDHB	3168.330965	0.394438409	0.065006519
ENSG00000087995	METTL2A	876.5823677	0.394422748	0.173825426
ENSG00000100483	VCPKMT	342.1518988	0.393492211	0.164472932
ENSG00000117862	TXNDC12	205.1845645	0.393406823	0.334596507
ENSG00000272525	AC099522.2	7.226233039	0.393045357	0.839007264

ENSG00000094631	HDAC6	894.4015654	0.39295374	0.225270656
ENSG00000182544	MFSD5	1516.386613	0.392948582	0.148931516
ENSG00000235001	EIF4A1P2	17.69309814	0.392916893	0.730629881
ENSG00000126524	SBDS	4809.073384	0.392764027	0.055678598
ENSG00000152154	TMEM178A	18.21715361	0.392627966	0.689656215
ENSG00000160953	PWWP3A	831.9874395	0.392565898	0.138646486
ENSG00000099899	TRMT2A	2076.919307	0.392410978	0.069325764
ENSG00000129245	FXR2	1672.079423	0.392259359	0.066499073
ENSG00000114503	NCBP2	2181.070012	0.391951954	0.05530725
ENSG00000165660	ABRAXAS2	903.7799928	0.391946386	0.094388257
ENSG00000271952	LINC01954	6.503480657	0.391734601	0.843482769
ENSG00000267270	PARD6G-AS1	27.44354171	0.391611192	0.621652931
ENSG00000095906	NUBP2	1202.69905	0.391370789	0.058620038
ENSG00000183067	IGSF5	6187.972326	0.391351638	0.353356676
ENSG00000058262	SEC61A1	32563.17301	0.391338286	0.068967941
ENSG00000196782	MAML3	1676.881855	0.391253519	0.223796921
ENSG00000136521	NDUFB5	1567.599921	0.390876402	0.137044632
ENSG00000156299	TIAM1	1237.07859	0.390505906	0.24814635
ENSG00000138639	ARHGAP24	1056.487674	0.390447989	0.165641398
ENSG00000263826	AC112907.3	23.6639681	0.390370459	0.640937229
ENSG00000138050	THUMPD2	173.3109121	0.39023367	0.238862107
ENSG00000101084	RAB5IF	798.0205527	0.389742888	0.137022074
ENSG00000080815	PSEN1	5455.203881	0.389413565	0.135260032
ENSG00000090470	PDCD7	997.231952	0.389334004	0.160641502

ENSG00000172171	TEFM	194.2019115	0.389202126	0.361842371
ENSG00000139767	SRRM4	7.509337674	0.389180335	0.80035732
ENSG00000111775	COX6A1	1275.063698	0.388944193	0.103471464
ENSG00000070476	ZXDC	1244.59555	0.388894868	0.119788059
ENSG00000140153	WDR20	1098.104577	0.388891398	0.113062628
ENSG00000156976	EIF4A2	15053.03623	0.388864877	0.252863453
ENSG00000179104	TMTC2	55.25735944	0.388807681	0.500171237
ENSG00000112514	CUTA	910.0524186	0.388784844	0.139564434
ENSG00000125458	NT5C	237.7407628	0.388689233	0.227377557
ENSG00000167306	MYO5B	1880.156936	0.388665091	0.280426975
ENSG00000161513	FDXR	2422.824927	0.388586865	0.262131419
ENSG00000136448	NMT1	9060.914765	0.388420532	0.090835148
ENSG00000179242	CDH4	19.19164907	0.38825742	0.669798217
ENSG00000221838	AP4M1	380.7996496	0.388230152	0.170611193
ENSG00000171522	PTGER4	19.1128712	0.388118089	0.69719847
ENSG00000064995	TAF11	1274.00104	0.388108068	0.114139834
ENSG00000132950	ZMYM5	200.6638171	0.388020608	0.244528223
ENSG00000175224	ATG13	6042.275146	0.387914579	0.038158518
ENSG00000156931	VPS8	569.2685513	0.38779201	0.086798395
ENSG00000143363	PRUNE1	662.7219851	0.38745247	0.165782727
ENSG00000160993	ALKBH4	241.0605279	0.387287781	0.350583036
ENSG00000172531	PPP1CA	9268.61636	0.387175292	0.036309365
ENSG00000255517	AP002748.4	9.493907661	0.387024216	0.763701418
ENSG00000213937	CLDN9	18.09506845	0.386995675	0.692478583

ENSG00000110944	IL23A	31.11931472	0.386988251	0.625298988
ENSG00000177954	RPS27	23076.24734	0.386914202	0.050368687
ENSG00000241127	YAE1	224.1903122	0.386855739	0.414476732
ENSG00000147403	RPL10	41798.19419	0.386642798	0.050728312
ENSG00000198113	TOR4A	35.27321594	0.386535968	0.691643296
ENSG00000212232	SNORD17	214.6361883	0.386459511	0.424904764
ENSG00000272472	AL512283.1	3.703725214	0.386439022	0.892714527
ENSG00000100376	FAM118A	1201.1536	0.386357545	0.113047682
ENSG00000170835	CEL	36.89974188	0.386357536	0.672673376
ENSG00000167615	LENG8	4411.631139	0.386304398	0.12137481
ENSG00000168517	HEXIM2	46.12371136	0.386281095	0.621657166
ENSG00000110400	NECTIN1	1493.278575	0.386220074	0.31864137
ENSG00000107957	SH3PXD2A	1642.759972	0.386218418	0.15071095
ENSG00000236305	SLC12A9-AS1	10.88201023	0.386041241	0.780367913
ENSG00000273117	AC144652.1	54.73240327	0.386017264	0.558378081
ENSG00000066926	FECH	540.9549367	0.385884371	0.09407291
ENSG00000053770	AP5M1	559.3331692	0.385687378	0.127858334
ENSG00000213058	AL365357.1	32.56293617	0.385682565	0.56346672
ENSG00000279789	AC120114.3	24.72274689	0.385620828	0.735833137
ENSG00000091732	ZC3HC1	662.7610213	0.385567146	0.124203661
ENSG00000272150	NBPF25P	12.58253234	0.385189416	0.740161746
ENSG00000111728	ST8SIA1	23.34607558	0.384890626	0.715559665
ENSG00000100294	MCAT	338.3580136	0.384630005	0.275208299
ENSG00000064655	EYA2	7.517425775	0.384599189	0.816436822

ENSG00000205544	TMEM256	51.93476527	0.384521621	0.468993545
ENSG00000226742	HSBP1L1	416.2430703	0.384262496	0.169558124
ENSG00000118046	STK11	2163.391935	0.384158536	0.08755106
ENSG00000105771	SMG9	1254.026022	0.383872346	0.076995604
ENSG00000155622	XAGE2	33247.80156	0.383840092	0.189086469
ENSG00000186174	BCL9L	12746.55648	0.383823038	0.165288403
ENSG00000271851	AC087501.4	19.50148358	0.383797683	0.73209544
ENSG00000241468	ATP5MF	2460.809451	0.383373927	0.066853748
ENSG00000201207	Y_RNA	5.888542378	0.383243121	0.83086174
ENSG00000139219	COL2A1	11.51746106	0.383149265	0.793166397
ENSG00000152904	GGPS1	779.4719453	0.38314749	0.119732538
ENSG00000143862	ARL8A	1128.429126	0.382989294	0.365707374
ENSG00000125447	GGA3	2917.017537	0.382794875	0.046243955
ENSG00000183048	SLC25A10	69.51702258	0.382659924	0.431003916
ENSG00000196214	ZNF766	801.8396687	0.382652157	0.349840794
ENSG00000164897	TMUB1	2249.026506	0.382458924	0.083134172
ENSG00000070087	PFN2	790.8821446	0.381978749	0.325498858
ENSG00000076201	PTPN23	2738.386865	0.381919164	0.159303775
ENSG00000123610	TNFAIP6	27.28518557	0.381776758	0.656536512
ENSG00000138685	FGF2	14.70996511	0.381763696	0.764055961
ENSG00000185946	RNPC3	181.1061062	0.381500947	0.231316742
ENSG00000250067	YJEFN3	85.35660653	0.38136915	0.605108845
ENSG00000196449	YRDC	1606.87745	0.381128705	0.135208885
ENSG00000124126	PREX1	4282.546828	0.381021018	0.105950628

ENSG00000226723	AL513175.1	3.384875996	0.381007312	0.895097202
ENSG00000204351	SKIV2L	3583.441113	0.380818068	0.122656312
ENSG00000227008	AL009174.1	10.63847483	0.38076678	0.795492135
ENSG00000105426	PTPRS	109.4549913	0.380649854	0.415762634
ENSG00000226266	AC009961.1	21.69757337	0.380558501	0.699632213
ENSG00000278376	AP004609.3	18.50186239	0.380453022	0.722246219
ENSG00000214022	REPIN1	2440.850379	0.380401614	0.129862914
ENSG00000138073	PREB	9142.903409	0.38036276	0.100545454
ENSG00000065491	TBC1D22B	1066.427819	0.380304643	0.110634407
ENSG00000130176	CNN1	6.833228877	0.380303481	0.810988558
ENSG00000101152	DNAJC5	4200.937864	0.380225231	0.061142251
ENSG00000177576	C18orf32	105.183066	0.379846498	0.408902949
ENSG00000104899	AMH	15.58442847	0.379729426	0.780935306
ENSG00000106400	ZNHIT1	2203.468345	0.379706909	0.086131541
ENSG00000232677	LINC00665	1784.38572	0.379604174	0.263531515
ENSG00000005882	PDK2	196.2875576	0.379487075	0.285954007
ENSG00000176101	SSNA1	1544.97105	0.379455181	0.063975036
ENSG00000119523	ALG2	3356.609058	0.379345755	0.110233761
ENSG00000042304	C2orf83	6.388084928	0.37931615	0.878556131
ENSG00000124356	STAMBP	1110.722542	0.379136022	0.067555223
ENSG00000108389	MTMR4	10232.95102	0.378878027	0.131663824
ENSG00000134046	MBD2	3858.927257	0.378556685	0.08186586
ENSG00000108785	HSD17B1P1	109.015153	0.378535325	0.421025774
ENSG00000181029	TRAPPC5	9.44757476	0.378430012	0.810802966

ENSG00000189190	ZNF600	2537.335666	0.377843478	0.086169263
ENSG00000234896	OR7E62P	48.45257	0.377664278	0.542367421
ENSG00000164266	SPINK1	11.34046549	0.377498049	0.757697698
ENSG00000179218	CALR	155697.1395	0.377455082	0.156613982
ENSG00000204147	ASAH2B	45.00987758	0.377288239	0.589329229
ENSG00000272518	AC036214.2	40.08681739	0.376857824	0.566272073
ENSG00000161960	EIF4A1	141.1484246	0.376626759	0.469060506
ENSG00000261236	BOP1	2389.892928	0.376505581	0.073499384
ENSG00000137413	TAF8	564.1657418	0.376490016	0.142485016
ENSG00000104969	SGTA	4681.981047	0.376410364	0.147924462
ENSG00000131148	EMC8	1477.606272	0.376285181	0.061496472
ENSG00000119535	CSF3R	19132.28933	0.376191491	0.449928624
ENSG00000243302	AC018638.4	129.9838615	0.376146454	0.388561796
ENSG00000198535	C2CD4A	5.213726427	0.376071094	0.84090412
ENSG00000273328	AC099329.2	796.4159674	0.376062479	0.133892537
ENSG00000203872	C6orf163	29.23325144	0.375501622	0.645374765
ENSG00000140199	SLC12A6	379.798156	0.375283826	0.231132828
ENSG00000169016	E2F6	612.1438203	0.374694526	0.222842821
ENSG00000184924	PTRHD1	191.1350386	0.37445487	0.229402996
ENSG00000234465	PINLYP	8.377337535	0.374369023	0.822123618
ENSG00000158773	USF1	3372.489375	0.374342531	0.158739912
ENSG00000256053	COA8	223.4113021	0.374273401	0.283548568
ENSG00000174145	NWD2	9.664517824	0.374004927	0.804129621
ENSG00000104695	PPP2CB	4101.614933	0.373996165	0.138797216

ENSG00000064999	ANKS1A	2153.30293	0.373952018	0.212681155
ENSG00000224046	AC005076.1	27.65099017	0.373859068	0.680677504
ENSG00000078487	ZCWPW1	10.75989929	0.373844624	0.788612394
ENSG00000119231	SENP5	1062.353841	0.373779367	0.106674055
ENSG00000141376	BCAS3	1830.500742	0.37361251	0.309886275
ENSG00000187017	ESPN	217.0864616	0.373416402	0.303457362
ENSG00000232112	TMA7	480.1811687	0.373081298	0.15526682
ENSG00000111186	WNT5B	18.1411128	0.373070095	0.739331184
ENSG00000163501	IHH	13.15506381	0.373058371	0.758744438
ENSG00000174915	PTDSS2	2425.576261	0.373034084	0.117686268
ENSG00000111224	PARP11	37.69064717	0.372981024	0.613009328
ENSG00000248196	AC092658.1	11.4705872	0.372954918	0.832143408
ENSG00000168872	DDX19A	531.6547347	0.372869134	0.11614746
ENSG00000170584	NUDCD2	592.1438337	0.372846953	0.144462719
ENSG00000203644	AC083799.1	242.370001	0.372844271	0.245116437
ENSG00000115350	POLE4	340.9618619	0.37272705	0.238437752
ENSG00000136933	RABEPK	654.2023893	0.372681743	0.17407665
ENSG00000138399	FASTKD1	665.623695	0.372662651	0.150575762
ENSG00000161204	ABCF3	4016.811496	0.372602518	0.073401865
ENSG00000126804	ZBTB1	692.0820096	0.372580412	0.106100826
ENSG00000110721	CHKA	403.5879643	0.372555126	0.472653008
ENSG00000164366	CCDC127	689.6564605	0.372382743	0.186457524
ENSG00000110200	ANAPC15	196.7334802	0.372186804	0.245518408
ENSG00000203950	RTL8A	710.8538069	0.37166859	0.145775191

ENSG00000251369	ZNF550	314.2624334	0.371534895	0.2773768
ENSG00000167962	ZNF598	2320.875999	0.371514341	0.190379485
ENSG00000165175	MID1IP1	2661.034945	0.371381834	0.22742504
ENSG00000107959	PITRM1	2597.150771	0.370732859	0.075998918
ENSG00000144867	SRPRB	5783.182136	0.370687692	0.140028295
ENSG00000132196	HSD17B7	1214.699392	0.37059196	0.226821042
ENSG00000231989	PPP1R2B	6.292188228	0.370443151	0.819498207
ENSG00000167508	MVD	3514.189512	0.370440604	0.302693527
ENSG00000138614	INTS14	1390.037303	0.370258784	0.101375273
ENSG00000090863	GLG1	6020.644827	0.370209977	0.280564073
ENSG00000026025	VIM	106.1038785	0.37005573	0.378504055
ENSG00000250731	TPM3P6	36.21775564	0.369451562	0.631398417
ENSG00000069849	ATP1B3	10118.36969	0.369388306	0.095915507
ENSG00000171823	FBXL14	128.583971	0.36921693	0.370778585
ENSG00000137522	RNF121	1390.850477	0.369200163	0.076996182
ENSG00000197362	ZNF786	585.7957147	0.369067214	0.12468274
ENSG00000019582	CD74	272.2349438	0.368951324	0.526228422
ENSG00000219102	HNRNPA3P12	3.398032367	0.368760065	0.900436081
ENSG00000168275	COA6	267.5388469	0.368653156	0.206874115
ENSG00000130713	EXOSC2	930.0222301	0.368612285	0.103226912
ENSG00000002919	SNX11	1261.753819	0.368496263	0.158906793
ENSG00000166794	PPIB	13690.46718	0.368461969	0.05573194
ENSG00000100804	PSMB5	7780.996881	0.368419988	0.0994305
ENSG00000104763	ASAH1	2422.929463	0.368298046	0.083462988

ENSG00000129355	CDKN2D	115.1720685	0.367981966	0.503236214
ENSG00000099203	TMED1	354.8895621	0.367890039	0.195068796
ENSG00000106636	YKT6	6102.300314	0.367786805	0.102805056
ENSG00000102897	LYRM1	158.8956672	0.367636774	0.377390234
ENSG00000104731	KLHDC4	811.6129801	0.367510316	0.101375273
ENSG00000236841	AC007750.1	10.19769538	0.367428548	0.791265869
ENSG00000281357	ARRDC3-AS1	8.223127895	0.367330206	0.813543525
ENSG00000173175	ADCY5	3207.422717	0.367293529	0.179786932
ENSG00000136869	TLR4	6.757959359	0.367214448	0.817569101
ENSG00000123472	ATPAF1	1042.293047	0.366995072	0.169916378
ENSG00000106829	TLE4	868.2643436	0.36682166	0.240201152
ENSG00000256393	RPL41P5	41.7930597	0.366738912	0.539158395
ENSG00000165102	HGSNAT	1553.908937	0.366708814	0.237901528
ENSG00000108528	SLC25A11	2105.539911	0.366708781	0.081474751
ENSG00000006283	CACNA1G	4.275347046	0.36659513	0.8740338
ENSG00000229162	AL445471.1	8.042119816	0.366208869	0.82411074
ENSG00000014164	ZC3H3	853.5902856	0.365994148	0.117599812
ENSG00000106003	LFNG	35.92078083	0.365706305	0.643685246
ENSG00000207280	SNORD20	4.889295024	0.365583411	0.889350168
ENSG00000197912	SPG7	3742.96253	0.365553041	0.127785029
ENSG00000107679	PLEKHA1	795.5432289	0.365527141	0.123041038
ENSG00000277147	LINC00869	396.4250493	0.365440537	0.30687671
ENSG00000124541	RRP36	2964.645345	0.365278147	0.135260032
ENSG00000270504	AL391422.4	1850.613507	0.36456745	0.152362842

ENSG00000188372	ZP3	289.274658	0.364317612	0.319479887
ENSG00000253954	HMGN1P38	7.36842088	0.364298053	0.804143416
ENSG00000113971	NPHP3	36.97422129	0.364271912	0.59333283
ENSG00000135930	EIF4E2	3188.548626	0.364130494	0.068278477
ENSG00000135535	CD164	9832.001495	0.363873211	0.08423251
ENSG00000280254	AC233723.2	15.61731368	0.363798628	0.725110786
ENSG00000101019	UQCC1	771.4699696	0.363725204	0.188104963
ENSG00000256538	AC046130.2	5.066950682	0.363689325	0.899178902
ENSG00000174326	SLC16A11	6.633639341	0.363541517	0.832822635
ENSG00000160213	CSTB	3772.647391	0.363377232	0.096457675
ENSG00000113240	CLK4	377.4754742	0.363087111	0.25748753
ENSG00000156256	USP16	4149.883294	0.363074809	0.183949993
ENSG00000117308	GALE	1556.024041	0.362922333	0.15260333
ENSG00000140299	BNIP2	3425.411857	0.362737335	0.10525161
ENSG00000153774	CFDP1	1055.315733	0.362727533	0.216107159
ENSG00000115468	EFHD1	2370.366147	0.362683194	0.187478373
ENSG00000258512	LINC00239	31.21020387	0.362642164	0.649172439
ENSG00000125503	PPP1R12C	1538.408437	0.362511103	0.13111853
ENSG00000235481	UBE2R2-AS1	3.644565769	0.362336308	0.906637352
ENSG00000106290	TAF6	1613.149119	0.36229767	0.095992064
ENSG00000177181	RIMKLA	12.71492987	0.362069194	0.80035732
ENSG00000132382	MYBBP1A	1522.680765	0.361978449	0.114894115
ENSG00000174977	AC026271.1	66.44593796	0.36189003	0.461284934
ENSG00000160124	CCDC58	503.7300289	0.361769504	0.223755267

ENSG00000177600	RPLP2	17851.91968	0.361647685	0.074140812
ENSG00000113732	ATP6V0E1	5480.171418	0.361625747	0.165622736
ENSG00000171735	CAMTA1	294.8095845	0.361605676	0.250773705
ENSG00000079459	FDFT1	10893.0883	0.361313615	0.325655202
ENSG00000145041	DCAF1	2523.85094	0.361002349	0.174825163
ENSG00000090372	STRN4	3398.350019	0.360990336	0.12470668
ENSG00000006695	COX10	697.8787868	0.360932904	0.131269666
ENSG00000114745	GORASP1	1179.421854	0.360865496	0.08989815
ENSG00000198563	DDX39B	1732.62441	0.360792658	0.353852458
ENSG00000101901	ALG13	730.5313679	0.360733462	0.144289331
ENSG00000254893	AC113404.3	157.9237092	0.360575343	0.321553241
ENSG00000231802	AC009502.1	28.79175523	0.360507286	0.652143635
ENSG00000164022	AIMP1	2027.936303	0.360083695	0.07502236
ENSG00000163812	ZDHHC3	6473.552956	0.360012261	0.171938638
ENSG00000158486	DNAH3	9.670520572	0.359847211	0.783112383
ENSG00000100207	TCF20	750.5837884	0.359606773	0.178059772
ENSG00000137161	CNPY3	1459.312741	0.359210411	0.102273283
ENSG00000105372	RPS19	26614.51348	0.358805324	0.065198802
ENSG00000108387	SEPTIN4	108.6674952	0.358729871	0.480070022
ENSG00000187953	PMS2CL	123.383121	0.35871931	0.348160992
ENSG00000109111	SUPT6H	9519.399265	0.358366222	0.169129277
ENSG00000240498	CDKN2B-AS1	3.945075764	0.358361388	0.869417404
ENSG00000114861	FOXP1	31.47027728	0.35833144	0.69593395
ENSG00000090661	CERS4	38.53881045	0.358265652	0.674055051

ENSG00000134452	FBH1	2066.992477	0.358135198	0.215418479
ENSG00000064703	DDX20	771.712934	0.358113457	0.197052632
ENSG00000148840	PPRC1	4353.088747	0.358018314	0.150906447
ENSG00000003147	ICA1	1308.094673	0.357931624	0.329163738
ENSG00000137760	ALKBH8	323.6844937	0.357866242	0.2808405
ENSG00000148229	POLE3	1708.35745	0.357775475	0.171058901
ENSG00000214194	SMIM30	856.1762836	0.357587573	0.228502377
ENSG00000275713	HIST1H2BH	26.45400709	0.357496289	0.712144649
ENSG00000167397	VKORC1	45.96902757	0.357447039	0.605652578
ENSG00000131495	NDUFA2	456.4469692	0.357356653	0.186602775
ENSG00000227959	AL451042.2	5.808022052	0.357307885	0.879940378
ENSG00000185504	FAAP100	546.040643	0.357124932	0.212249088
ENSG00000112293	GPLD1	142.5651075	0.35712043	0.434435937
ENSG00000114646	CSPG5	20.16618304	0.357069161	0.707227156
ENSG00000165516	KLHDC2	1446.393381	0.357054673	0.265194422
ENSG00000278238	AL359513.1	5.304680126	0.356750335	0.8529122
ENSG00000129315	CCNT1	1512.53735	0.356476745	0.266481432
ENSG00000122257	RBBP6	5546.42012	0.356436433	0.186371944
ENSG00000069122	ADGRF5	46.65234204	0.3562563	0.583069755
ENSG00000131845	ZNF304	347.4478052	0.356227314	0.241875653
ENSG00000197937	ZNF347	270.1383451	0.356129243	0.321884977
ENSG00000099821	POLRMT	2460.042438	0.356024424	0.166403136
ENSG00000115290	GRB14	17.96919974	0.356020259	0.726499546
ENSG00000169857	AVEN	293.2328036	0.355732212	0.278619467

ENSG00000196693	ZNF33B	471.5135938	0.355660432	0.202951799
ENSG00000261613	AC093525.6	8.24191013	0.355581125	0.800063751
ENSG00000162843	WDR64	100.6144047	0.355243787	0.575703395
ENSG00000028528	SNX1	1932.013459	0.355164174	0.128649397
ENSG00000107242	PIP5K1B	313.181215	0.355010152	0.241837025
ENSG00000223518	CSNK1A1P1	5.748737719	0.354939615	0.869453819
ENSG00000093000	NUP50	7972.344715	0.354915082	0.1515142
ENSG00000135999	EPC2	750.1955634	0.354619294	0.191396637
ENSG00000158008	EXTL1	49.36880038	0.354469741	0.632894444
ENSG00000106246	PTCD1	62.81252628	0.354291814	0.546339739
ENSG00000163468	CCT3	16339.48133	0.353850207	0.112660524
ENSG00000110330	BIRC2	1576.856167	0.353850162	0.132359194
ENSG00000089053	ANAPC5	8432.534764	0.353280234	0.082237605
ENSG00000132589	FLOT2	5045.784368	0.353261142	0.083281416
ENSG00000288398	AL109627.1	64.45619704	0.352907514	0.499950568
ENSG00000130244	FAM98C	172.259668	0.352669534	0.371709721
ENSG00000176749	CDK5R1	57.77978564	0.35226	0.706674316
ENSG00000282418	AC092811.1	17.73260049	0.352247578	0.82489345
ENSG00000232388	SMIM26	274.4898122	0.352162495	0.235335621
ENSG00000169972	PUSL1	784.653508	0.352036431	0.132761949
ENSG00000284686	AC119674.2	16.7199971	0.35198399	0.742561971
ENSG00000171421	MRPL36	1055.244222	0.351881662	0.229348657
ENSG00000182308	DCAF4L1	23.12451073	0.351622673	0.724516475
ENSG00000196510	ANAPC7	1462.485243	0.35143637	0.105447903

ENSG00000213854	CNN2P6	14.65566922	0.351268899	0.843539482
ENSG00000149196	HIKESHI	595.4768417	0.351238243	0.223067078
ENSG00000148824	MTG1	77.43529702	0.351188801	0.63374102
ENSG00000136271	DDX56	3633.793711	0.350870624	0.262963868
ENSG00000226332	AL354836.1	32.86139824	0.350829305	0.724256606
ENSG00000274937	AC090826.2	5.787527404	0.350813419	0.862565231
ENSG00000182253	SYNM	29.89313876	0.350768912	0.740746814
ENSG00000132386	SERPINF1	361.7095127	0.350733748	0.373753686
ENSG00000204388	HSPA1B	1523.209023	0.350644014	0.300828094
ENSG00000138326	RPS24	42619.67919	0.350528024	0.061732015
ENSG00000250240	AC008840.1	7.362104996	0.35035288	0.817440365
ENSG00000120694	HSPH1	5964.553236	0.350275925	0.26052499
ENSG00000276571	AC002550.2	4.968225999	0.350191715	0.876561382
ENSG00000160679	CHTOP	2898.48069	0.350154537	0.070930817
ENSG00000101986	ABCD1	4678.578549	0.350066921	0.112413432
ENSG00000196497	IPO4	3.789294071	0.349763925	0.895604705
ENSG00000232098	AC012313.1	407.6728371	0.349742433	0.182649088
ENSG00000072415	MPP5	1905.954908	0.349658237	0.292489917
ENSG00000008300	CELSR3	72.28070582	0.349638253	0.527549554
ENSG00000172782	FADS6	6.124529364	0.349514915	0.8611284
ENSG00000092841	MYL6	12242.68935	0.349485323	0.142485016
ENSG00000073910	FRY	70.28759315	0.349240799	0.650380319
ENSG00000239672	NME1	801.7724543	0.349081061	0.210116787
ENSG00000179818	PCBP1-AS1	175.8234616	0.34905144	0.355603492

ENSG00000170500	LONRF2	13.59183711	0.348984589	0.779585614
ENSG00000184967	NOC4L	718.1118058	0.348955793	0.220287463
ENSG00000125633	CCDC93	1892.843466	0.348892567	0.124796285
ENSG00000231852	CYP21A2	29.14981675	0.348869099	0.758644904
ENSG00000165678	GHITM	5575.798113	0.348763255	0.057581701
ENSG00000259494	MRPL46	218.1245125	0.348733972	0.289042546
ENSG00000240344	PPIL3	958.2672243	0.348709435	0.117081401
ENSG00000221643	SNORA77	11.00017379	0.348505592	0.803958548
ENSG00000227063	RPL41P1	2505.818664	0.348462794	0.091890561
ENSG00000145781	COMMD10	462.4314937	0.34820334	0.301920069
ENSG00000113558	SKP1	6985.032222	0.348165581	0.093447315
ENSG00000198046	ZNF667	88.82637135	0.347932301	0.522873106
ENSG00000070540	WIPI1	6119.158124	0.347718745	0.084779838
ENSG00000108788	MLX	3050.847274	0.347601741	0.15498051
ENSG00000168906	MAT2A	5194.029275	0.347432412	0.441182547
ENSG00000100209	HSCB	81.79163141	0.347299538	0.519323369
ENSG00000132254	ARFIP2	4438.059034	0.347113041	0.196446563
ENSG00000235529	AGAP1-IT1	21.24027119	0.347093666	0.75090082
ENSG00000118705	RPN2	44400.29342	0.346679132	0.078379931
ENSG00000102904	TSNAXIP1	12.56902069	0.346580959	0.791265869
ENSG00000156113	KCNMA1	3.952983154	0.346469498	0.890744483
ENSG00000157429	ZNF19	24.44740493	0.346163925	0.751973119
ENSG00000104365	IKBKB	1237.647524	0.345926297	0.102681325
ENSG00000184863	RBM33	2136.753586	0.345751648	0.114947359

ENSG00000082269	FAM135A	1001.046756	0.345653091	0.235667462
ENSG00000118307	CASC1	5.454719545	0.345615116	0.87669561
ENSG00000150991	UBC	48680.10464	0.345601316	0.111338276
ENSG00000130119	GNL3L	1712.197251	0.345562855	0.144332186
ENSG00000013374	NUB1	2263.635573	0.345357937	0.181200618
ENSG00000261098	AP000766.1	8.574901958	0.345244802	0.869253365
ENSG00000184209	SNRNP35	1029.20546	0.34524115	0.12040306
ENSG00000174606	ANGEL2	286.8347382	0.345101817	0.274334639
ENSG00000113621	TXNDC15	1020.262518	0.345097172	0.185394253
ENSG00000106976	DNM1	11.20027579	0.345047125	0.804864885
ENSG00000135473	PAN2	579.8087445	0.344947066	0.394758972
ENSG00000108819	PPP1R9B	4124.859516	0.344834172	0.16407575
ENSG00000156381	ANKRD9	806.7770875	0.344824523	0.410677689
ENSG00000143756	FBXO28	1180.393151	0.344398478	0.104567372
ENSG00000273599	AL731571.1	230.5213174	0.34396082	0.793895128
ENSG00000198060	MARCH5	1104.937149	0.343910698	0.131250083
ENSG00000161203	AP2M1	35134.17064	0.343877703	0.122219052
ENSG00000156239	N6AMT1	204.0078119	0.343815876	0.423637279
ENSG00000196642	RABL6	4063.685429	0.343650217	0.259588275
ENSG00000282508	LINC01002	68.47628259	0.343622358	0.537750628
ENSG00000150316	CWC15	1775.302346	0.343476522	0.191865673
ENSG00000122435	TRMT13	249.7781304	0.343139814	0.360589385
ENSG00000120656	TAF12	1652.031425	0.343102419	0.245301704
ENSG00000272405	AL365181.3	391.3017749	0.342648187	0.381842138

ENSG00000105229	PIAS4	1834.584235	0.342466772	0.114984923
ENSG00000205531	NAP1L4	3542.075412	0.342445379	0.083619001
ENSG00000143368	SF3B4	3871.603931	0.342435128	0.197491211
ENSG00000147679	UTP23	194.2308886	0.342429364	0.384479709
ENSG00000154781	CCDC174	789.0394991	0.342154035	0.148150445
ENSG00000104863	LIN7B	46.27028854	0.34171663	0.595542495
ENSG00000180098	TRNAU1AP	1114.240264	0.341715573	0.176187329
ENSG00000064300	NGFR	25.79712891	0.341518295	0.728409291
ENSG00000156050	FAM161B	25.77488776	0.341333757	0.701851686
ENSG00000186812	ZNF397	275.3835632	0.341249149	0.348764929
ENSG00000181026	AEN	6919.059459	0.341161004	0.240795985
ENSG00000100412	ACO2	5937.374303	0.341012097	0.127352111
ENSG00000118557	PMFBP1	10.68223021	0.340952783	0.811127648
ENSG00000171503	ETFDH	476.1109404	0.340742176	0.206092085
ENSG00000166136	NDUFB8	76.50001429	0.340705026	0.452891363
ENSG00000135521	LTV1	578.8131754	0.340479703	0.439398369
ENSG00000155876	RRAGA	1542.829091	0.340395795	0.117951927
ENSG00000080007	DDX43	65.64777938	0.340304373	0.540034618
ENSG00000167526	RPL13	28252.03429	0.340129825	0.116514445
ENSG00000204463	BAG6	11614.46426	0.340110709	0.142553265
ENSG00000100109	TFIP11	1525.471672	0.340097204	0.148618099
ENSG00000162980	ARL5A	796.7479147	0.340009511	0.241530294
ENSG00000141076	UTP4	2604.88119	0.339959687	0.240662247
ENSG00000141562	NARF	914.9592067	0.339954217	0.188961538

ENSG00000139132	FGD4	1248.186665	0.339867167	0.452252205
ENSG00000141428	C18orf21	307.7324697	0.339781842	0.33133122
ENSG00000155324	GRAMD2B	7815.020892	0.339739839	0.273546695
ENSG00000136877	FPGS	877.1283045	0.33968564	0.217514323
ENSG00000035141	FAM136A	2137.094586	0.339577067	0.296954297
ENSG00000103502	CDIPT	2267.930877	0.339487552	0.153901769
ENSG00000273108	AL121929.2	66.7603266	0.339460386	0.665425826
ENSG00000163216	SPRR2D	190.0673286	0.339283513	0.579753371
ENSG00000167118	URM1	1341.937303	0.339275116	0.206259053
ENSG00000166436	TRIM66	175.1237501	0.339271563	0.329397302
ENSG00000144744	UBA3	1883.535233	0.339097821	0.134451789
ENSG00000215414	PSMA6P1	14.71815203	0.339015097	0.766155626
ENSG00000120697	ALG5	2549.597918	0.3389814	0.084300317
ENSG00000173214	MFSD4B	1535.393607	0.338842815	0.154053259
ENSG00000160325	CACFD1	173.2576476	0.338693798	0.377390234
ENSG00000063244	U2AF2	9344.439465	0.33854957	0.151323113
ENSG00000163867	ZMYM6	107.138881	0.338503403	0.431897705
ENSG00000151729	SLC25A4	683.9889038	0.338492453	0.174239723
ENSG00000216285	AC078819.1	8.932541475	0.338491172	0.82153068
ENSG00000103942	HOMER2	12.36183628	0.338392382	0.786701861
ENSG00000137312	FLOT1	3726.240007	0.338354893	0.129589968
ENSG00000103599	IQCH	10.2482228	0.338313377	0.812598164
ENSG00000163319	MRPS18C	366.4455432	0.338204475	0.347133271
ENSG00000171720	HDAC3	1971.611387	0.338030182	0.129376072

ENSG00000233381	AK4P3	5.887167042	0.337938287	0.855093696
ENSG00000230825	AC005532.1	140.9012229	0.337917428	0.487099122
ENSG00000158352	SHROOM4	94.76817848	0.337912341	0.559520786
ENSG00000247271	ZBED5-AS1	117.5339235	0.337828642	0.4772645
ENSG00000071242	RPS6KA2	55.88339713	0.337805153	0.671863017
ENSG00000075826	SEC31B	60.83787934	0.337726956	0.533184805
ENSG00000162069	BICDL2	515.5865731	0.337647598	0.221521544
ENSG00000158864	NDUFS2	4844.364594	0.337632297	0.191396637
ENSG00000069702	TGFBR3	8439.217682	0.337485271	0.361297565
ENSG00000232759	AC002480.1	23.64831501	0.337294169	0.759088398
ENSG00000171161	ZNF672	2770.172524	0.337160784	0.222038731
ENSG00000115084	SLC35F5	2027.169203	0.337126081	0.138482014
ENSG00000255857	PXN-AS1	64.18509071	0.337016782	0.540913848
ENSG00000160588	MPZL3	888.8203139	0.336954076	0.236962292
ENSG00000132361	CLUH	3030.095973	0.33677486	0.12627146
ENSG00000131469	RPL27	18475.46302	0.336640371	0.109827585
ENSG00000157927	RADIL	13.1132249	0.336633866	0.801296773
ENSG00000256628	ZBTB11-AS1	66.73047645	0.336567572	0.543295285
ENSG00000236459	HNRNPA1P22	7.529586134	0.336237203	0.835771156
ENSG00000124733	MEA1	1714.952238	0.335994522	0.16818865
ENSG00000139644	TMBIM6	29581.03155	0.335853364	0.085980327
ENSG00000100241	SBF1	9207.913987	0.335811796	0.304435009
ENSG00000244363	RPL7P23	5.670934065	0.335738114	0.853180003
ENSG00000215845	TSTD1	355.9247114	0.335706237	0.324981172

ENSG00000066136	NFYC	2328.520037	0.335615703	0.131657877
ENSG00000037749	MFAP3	540.8112926	0.335537394	0.229730943
ENSG00000279114	Z99129.3	4.852165413	0.335525715	0.874328237
ENSG00000156304	SCAF4	1557.027462	0.335277998	0.24092876
ENSG00000109771	LRP2BP	27.43310472	0.335101534	0.69935484
ENSG00000225828	FAM229A	83.41487311	0.335047709	0.547470796
ENSG00000130024	PHF10	2695.457708	0.334951183	0.173343759
ENSG00000197498	RPF2	1196.339466	0.334879741	0.283930828
ENSG00000125304	TM9SF2	11947.15432	0.334623825	0.154142494
ENSG00000196378	ZNF34	117.9212598	0.334361278	0.458459856
ENSG00000108622	ICAM2	9.783311806	0.334046158	0.836859153
ENSG00000117419	ERI3	966.6065246	0.333912534	0.186182551
ENSG00000109814	UGDH	1093.533814	0.33385212	0.310931162
ENSG00000028116	VRK2	240.9107193	0.333785063	0.361274686
ENSG00000129055	ANAPC13	847.6755845	0.333782884	0.19651186
ENSG00000143333	RGS16	1745.095142	0.33367785	0.349678638
ENSG00000260025	CRIM1-DT	44.1857759	0.333610019	0.651200463
ENSG00000160741	CRTC2	1857.40108	0.333582485	0.235817878
ENSG00000254211	LINC01485	9.065416832	0.333218078	0.864346421
ENSG00000121058	COIL	639.4982919	0.333130936	0.239696221
ENSG00000025800	KPNA6	9050.34141	0.333058956	0.258798663
ENSG00000155329	ZCCHC10	692.3249116	0.332732746	0.222742082
ENSG00000141552	ANAPC11	2900.527428	0.33269152	0.227310467
ENSG00000170092	SPDYE5	9.661032907	0.332687267	0.810802966

ENSG00000144233	AMMECR1L	1819.683485	0.332649332	0.291736687
ENSG00000130706	ADRM1	2895.21556	0.332521505	0.204211162
ENSG00000103707	MTFMT	284.5809985	0.332460177	0.270437346
ENSG00000169609	C15orf40	236.1057127	0.332369245	0.305415861
ENSG00000119048	UBE2B	5422.893711	0.332253099	0.20788006
ENSG00000096717	SIRT1	895.952176	0.332083141	0.147150929
ENSG00000287868	AL355377.4	36.31622368	0.332061947	0.704608964
ENSG00000100564	PIGH	995.03297	0.331751099	0.227438777
ENSG00000022840	RNF10	10575.11032	0.331478396	0.106567646
ENSG00000231841	FAM192BP	4.986917878	0.33147116	0.884637357
ENSG00000175691	ZNF77	552.3939524	0.331244162	0.222038731
ENSG00000172375	C2CD2L	641.3670219	0.330687697	0.257131017
ENSG00000177984	LCN15	196.3311694	0.33025994	0.307053009
ENSG00000122515	ZMIZ2	373.5802072	0.3301621	0.274130927
ENSG00000004779	NDUFAB1	1770.441274	0.329927175	0.136829737
ENSG00000172115	CYCS	6375.683498	0.329713391	0.14624928
ENSG00000217128	FNIP1	987.9272035	0.329560784	0.268412724
ENSG00000179091	CYC1	4687.147427	0.32946532	0.135797344
ENSG00000139433	GLTP	4363.564658	0.329177825	0.396258685
ENSG00000152977	ZIC1	26.1567001	0.329166296	0.77944723
ENSG00000101182	PSMA7	7226.327941	0.329092497	0.212323507
ENSG00000152439	ZNF773	111.591557	0.328987463	0.448389645
ENSG00000198420	TCAF1	3001.027917	0.328929502	0.399311805
ENSG00000032444	PNPLA6	2531.014746	0.32850677	0.211951562

ENSG00000185834	RPL12P4	48.7801864	0.328492193	0.644751193
ENSG00000088766	CRLS1	118.207218	0.328466293	0.445741172
ENSG00000151327	FAM177A1	1450.243077	0.328412021	0.1433595
ENSG00000169021	UQCRFS1	4927.433817	0.328380356	0.149344994
ENSG00000227467	LINC01537	19.29740516	0.32836855	0.761884632
ENSG00000178307	TMEM11	1605.403642	0.328258842	0.127038407
ENSG00000205138	SDHAF1	173.8183991	0.328201338	0.327444213
ENSG00000100410	PHF5A	1948.918632	0.328086605	0.218925377
ENSG00000176700	SCAND2P	12.55168778	0.32768123	0.843134545
ENSG00000137038	DMAC1	723.9028006	0.327008147	0.222500671
ENSG00000180834	MAP6D1	3.910747363	0.326932519	0.900415613
ENSG00000147383	NSDHL	1772.689449	0.326717784	0.224032894
ENSG00000163453	IGFBP7	14.89356916	0.326576458	0.776824852
ENSG00000105289	TJP3	5016.996237	0.32652617	0.410003399
ENSG00000170088	TMEM192	360.1225495	0.326429393	0.310775986
ENSG00000104783	KCNN4	8028.728003	0.326324878	0.170769431
ENSG00000182327	GLTPD2	18.43671885	0.326289085	0.728116587
ENSG00000149571	KIRREL3	21.54162046	0.326171884	0.746808828
ENSG00000118420	UBE3D	88.86050929	0.326141703	0.549029203
ENSG00000115363	EVA1A	617.9414033	0.325822256	0.426851921
ENSG00000158874	APOA2	558.3319921	0.325790478	0.434396167
ENSG00000028277	POU2F2	42.39021611	0.325676312	0.683047672
ENSG00000141959	PFKL	7759.597885	0.325605676	0.248584523
ENSG00000108599	AKAP10	1317.639431	0.325514504	0.141330928

ENSG00000121039	RDH10	1492.303699	0.325501607	0.218273816
ENSG00000100281	HMGXB4	1242.6353	0.325458227	0.173842422
ENSG00000162636	FAM102B	937.8703149	0.32535937	0.360267512
ENSG00000113593	PPWD1	2518.261422	0.325313456	0.214310734
ENSG00000103423	DNAJA3	3532.566139	0.32528549	0.141623542
ENSG00000167476	JSRP1	71.22484348	0.325264567	0.630941993
ENSG00000264920	AC018521.5	74.60789203	0.325003569	0.555532603
ENSG00000121417	ZNF211	1337.918984	0.324852961	0.238227819
ENSG00000082996	RNF13	1124.953579	0.324600681	0.150573912
ENSG00000267309	AC092295.2	22.64203039	0.324278363	0.760294669
ENSG00000204618	RNF39	60.9194452	0.324114165	0.594618504
ENSG00000159214	CCDC24	34.6034967	0.324113169	0.679115398
ENSG00000238098	ABCA17P	9.51203139	0.32398318	0.840211136
ENSG00000131373	HACL1	875.6469008	0.323809535	0.163631193
ENSG00000113048	MRPS27	5901.02125	0.323664002	0.091665083
ENSG00000159516	SPRR2G	9.101891892	0.323468525	0.828167535
ENSG00000264278	ZNF236-DT	8.016963539	0.323458031	0.84130375
ENSG00000160801	PTH1R	29.4538012	0.323269243	0.690150747
ENSG00000205918	PDPK2P	31.98574527	0.323098478	0.653979093
ENSG00000145730	PAM	4492.485946	0.323087888	0.304566127
ENSG00000049089	COL9A2	85.93772659	0.322862533	0.565944899
ENSG00000081019	RSBN1	261.0528359	0.322858359	0.29293991
ENSG00000145882	PCYOX1L	201.1622955	0.322730893	0.528347974
ENSG00000169504	CLIC4	25940.39747	0.322472138	0.389477126

ENSG00000165115	KIF27	41.84524455	0.322316448	0.664625641
ENSG00000177542	SLC25A22	1005.279869	0.322215964	0.212159075
ENSG00000135940	COX5B	3274.752571	0.322135378	0.189169891
ENSG00000050628	PTGER3	601.7106092	0.322134969	0.482697835
ENSG00000140950	MEAK7	2836.526976	0.322124495	0.379104135
ENSG00000222011	FAM185A	108.4614523	0.321865945	0.430654064
ENSG00000168883	USP39	2412.200374	0.321511114	0.100850245
ENSG00000240747	KRBOX1	21.73517332	0.321381392	0.760755236
ENSG00000143442	POGZ	1496.503704	0.321369218	0.302693527
ENSG00000204427	ABHD16A	23.13557363	0.321045041	0.698412458
ENSG00000132906	CASP9	609.7678871	0.320928221	0.401019506
ENSG00000234618	RPSAP9	12.03282729	0.320713075	0.8105983
ENSG00000268669	AC008687.5	5.850089877	0.320566807	0.862565231
ENSG00000181991	MRPS11	791.0252995	0.320338929	0.163547231
ENSG00000078902	TOLLIP	1595.464608	0.320155714	0.149828927
ENSG00000106268	NUDT1	927.9002313	0.320140572	0.321553241
ENSG00000268189	AC005785.1	12.11884332	0.320096119	0.818771438
ENSG00000101000	PROCR	721.8873929	0.320017386	0.338097771
ENSG00000167657	DAPK3	5771.885802	0.319978745	0.169519662
ENSG00000162851	TFB2M	977.4190282	0.319656772	0.221972431
ENSG00000179950	PUF60	5356.014142	0.319558207	0.111585528
ENSG00000163703	CRELD1	603.427139	0.3195155	0.39462873
ENSG00000052802	MSMO1	7911.798528	0.319442641	0.47927955
ENSG00000130985	UBA1	14552.96168	0.31930428	0.09832286

ENSG00000187535	IFT140	191.3103172	0.319086886	0.484272813
ENSG00000126003	PLAGL2	584.2088483	0.318977152	0.381331179
ENSG00000276600	RAB7B	63.46391621	0.318928335	0.622303312
ENSG00000080031	PTPRH	6.183957424	0.318744843	0.850523762
ENSG00000164252	AGGF1	241.71389	0.318361906	0.411444819
ENSG00000129235	TXNDC17	418.4455333	0.318358722	0.247641021
ENSG00000138606	SHF	28.9542164	0.318002613	0.761782779
ENSG00000196605	ZNF846	37.02340527	0.317431979	0.643948944
ENSG00000218739	CEBPZOS	644.2577046	0.317266792	0.256822033
ENSG00000167792	NDUFV1	4714.118143	0.317151731	0.187306288
ENSG00000213782	DDX47	21.22099596	0.317004544	0.749388694
ENSG00000281490	CICP14	39.3749697	0.316975444	0.730813997
ENSG00000237399	PITRM1-AS1	14.5231669	0.316856541	0.760798586
ENSG00000198373	WWP2	2941.850468	0.316776879	0.187237955
ENSG00000275532	AC006449.2	7.711852514	0.316644634	0.834591886
ENSG00000181929	PRKAG1	2490.578935	0.316636105	0.124029879
ENSG00000140987	ZSCAN32	369.9898925	0.316588536	0.262161221
ENSG00000117616	RSRP1	774.7265373	0.31655493	0.252326562
ENSG00000013364	MVP	15027.39432	0.31636111	0.267495919
ENSG00000107816	LZTS2	2250.33979	0.316156557	0.209965025
ENSG00000062194	GPBP1	7616.207697	0.315990902	0.168738337
ENSG00000157734	SNX22	104.1172656	0.315924413	0.521086107
ENSG00000130640	TUBGCP2	2426.310818	0.315818524	0.144277829
ENSG00000256139	AC007637.1	11.00856154	0.315791582	0.845555739

ENSG00000164609	SLU7	1759.550505	0.315729547	0.155793983
ENSG00000171408	PDE7B	5.002913369	0.31546076	0.888173372
ENSG00000117133	RPF1	605.0285068	0.315332168	0.245301704
ENSG00000102796	DHRS12	62.83650753	0.315004605	0.546461331
ENSG00000177788	AL162595.1	98.63506677	0.314977203	0.585869967
ENSG00000007541	PIGQ	283.2368931	0.314784355	0.366086298
ENSG00000123178	SPRYD7	969.0823528	0.314750707	0.282015661
ENSG00000164916	FOXK1	881.303089	0.314358161	0.197114145
ENSG00000146707	POMZP3	664.0299549	0.314355817	0.266107892
ENSG00000075234	TTC38	750.0282945	0.314104913	0.234938675
ENSG00000123154	WDR83	99.73634737	0.313976739	0.468838448
ENSG00000254554	AC080023.1	12.81661959	0.313816952	0.807764824
ENSG00000100726	TELO2	800.8538624	0.313794753	0.362350729
ENSG00000044090	CUL7	1213.07374	0.313661331	0.475305147
ENSG00000130803	ZNF317	1375.389433	0.31355473	0.287321239
ENSG00000129933	MAU2	1994.194113	0.313525704	0.206092085
ENSG00000224470	ATXN1L	1730.544454	0.313399544	0.185944027
ENSG00000124383	MPHOSPH10	1694.35451	0.313276864	0.278091748
ENSG00000197063	MAFG	2014.241025	0.312938593	0.235660455
ENSG00000281189	GHET1	12.11223997	0.312931662	0.803454473
ENSG00000117242	PINK1-AS	73.69627459	0.312525934	0.575619923
ENSG00000088038	CNOT3	3717.496821	0.312426971	0.239276553
ENSG00000125630	POLR1B	1085.436132	0.312287285	0.324531216
ENSG00000258038	LINC02327	127.170983	0.312175428	0.397024656

ENSG00000151414	NEK7	1531.862116	0.312080198	0.219960693
ENSG00000073536	NLE1	492.0325439	0.312001949	0.294132145
ENSG00000171174	RBKS	23.0867515	0.311644835	0.767180111
ENSG00000063241	ISOC2	201.9224651	0.311271591	0.385606548
ENSG00000105379	ETFB	171.2896784	0.311242846	0.389324592
ENSG00000241104	CEACAMP10	1401.304144	0.31121238	0.787466659
ENSG00000178982	EIF3K	5975.222436	0.311189156	0.114478165
ENSG00000100099	HPS4	1138.94118	0.311092586	0.26289213
ENSG00000165819	METTL3	1683.308555	0.310759701	0.15065151
ENSG00000118454	ANKRD13C	1595.791673	0.310493524	0.223310701
ENSG00000196235	SUPT5H	12878.88142	0.310452742	0.181770276
ENSG00000105793	GTPBP10	530.6463443	0.310421944	0.345946123
ENSG00000114026	OGG1	145.4270681	0.310333256	0.464998674
ENSG00000167664	TMIGD2	46.05148278	0.31010533	0.676121659
ENSG00000005700	IBTK	699.1552529	0.309702951	0.45030611
ENSG00000100335	MIEF1	2895.279765	0.309691647	0.298179673
ENSG00000198915	RASGEF1A	5.494387271	0.309684934	0.866640604
ENSG00000135372	NAT10	1762.895003	0.309559616	0.296503719
ENSG00000126231	PROZ	12.33744009	0.309525415	0.79899734
ENSG00000128563	PRKRIP1	793.8201488	0.309073439	0.337673184
ENSG00000134056	MRPS36	1027.445641	0.308971338	0.162144635
ENSG00000168824	NSG1	588.7425244	0.308937727	0.525783948
ENSG00000091073	DTX2	1288.382836	0.308304826	0.238721013
ENSG00000152700	SAR1B	4732.137282	0.308104308	0.156376632

ENSG00000139197	PEX5	644.774952	0.308056624	0.250079597
ENSG00000176148	TCP11L1	455.4699426	0.308011353	0.377885719
ENSG00000175581	MRPL48	1139.221007	0.307917832	0.186371944
ENSG00000184319	RPL23AP82	611.1566067	0.307857403	0.28112628
ENSG00000102359	SRPX2	80.31090737	0.307786317	0.617479041
ENSG00000258744	AL132800.1	35.42908091	0.3075708	0.676552678
ENSG00000172183	ISG20	660.6792419	0.307357427	0.475394123
ENSG00000150455	TIRAP	150.9675158	0.306942091	0.420915035
ENSG00000135506	OS9	7190.022607	0.306923568	0.223067078
ENSG00000114354	TFG	7838.286449	0.30674993	0.158008014
ENSG00000183520	UTP11	1338.745342	0.306520141	0.355179008
ENSG00000105443	CYTH2	2252.724634	0.306474904	0.165705045
ENSG00000214293	APTR	158.169381	0.30645775	0.413196329
ENSG00000157653	C9orf43	7.202325916	0.306445529	0.851752297
ENSG00000127837	AAMP	6723.47457	0.30637334	0.124109369
ENSG00000134987	WDR36	1073.225397	0.306187169	0.178691269
ENSG00000168393	DTYMK	1919.855282	0.305975793	0.238227819
ENSG00000176444	CLK2	2439.142712	0.30570928	0.190444904
ENSG00000188895	MSL1	3045.869672	0.305649029	0.259097212
ENSG00000254544	PCNAP4	65.30772246	0.305632438	0.623703854
ENSG00000149541	B3GAT3	1366.477012	0.305609236	0.222509849
ENSG00000078795	PKD2L2	4.121536182	0.305598759	0.908610337
ENSG00000160691	SHC1	5097.121091	0.305410335	0.16407575
ENSG00000068394	GPKOW	1745.965592	0.305311539	0.21019667

ENSG00000163348	PYGO2	1791.602388	0.305193607	0.199512802
ENSG00000102390	PBDC1	934.452796	0.304584224	0.399702572
ENSG00000246985	SOCS2-AS1	13.90703345	0.304184881	0.797083507
ENSG00000198517	MAFK	19166.16606	0.30405824	0.275391568
ENSG00000238045	AC009133.1	35.51170809	0.303749572	0.721240244
ENSG00000254837	AP001372.2	94.67706848	0.303700562	0.562409874
ENSG00000140937	CDH11	6.413328314	0.3035875	0.855093696
ENSG00000197724	PHF2	760.0950119	0.303428932	0.432125287
ENSG00000169814	BTD	494.79008	0.303359718	0.294418755
ENSG00000234171	RNASEH1-AS1	58.9570105	0.30333662	0.575528605
ENSG00000096080	MRPS18A	691.1933587	0.303182205	0.272837949
ENSG00000143858	SYT2	8.30710046	0.303177231	0.833496359
ENSG00000241343	RPL36A	45.31293333	0.302989838	0.639144531
ENSG00000100601	ALKBH1	651.8493848	0.302933819	0.397735044
ENSG00000130414	NDUFA10	3021.024721	0.302933455	0.152295139
ENSG00000182511	FES	449.0991005	0.302774264	0.348506373
ENSG00000223551	TMSB4XP4	4.109080137	0.302563874	0.910163561
ENSG00000277639	AC007906.2	42.38552668	0.302507135	0.729463836
ENSG00000187595	ZNF385C	24.72863083	0.302474983	0.762758312
ENSG00000112167	SAYSD1	141.8508979	0.302330851	0.501162228
ENSG00000222014	RAB6C	2.756773	0.3022677	0.9425024
ENSG00000108958	AC130689.1	14.06934088	0.302230802	0.788727011
ENSG00000049883	PTCD2	933.7501243	0.302031529	0.294076584
ENSG00000107551	RASSF4	27.65164326	0.301703415	0.747631456

ENSG00000168303	MPLKIP	499.4784378	0.301320815	0.280336513
ENSG00000159588	CCDC17	75.99607806	0.301314498	0.660208324
ENSG00000160201	U2AF1	101.7507322	0.301125103	0.612254257
ENSG00000127554	GFER	381.459987	0.301015952	0.321751863
ENSG00000113384	GOLPH3	7370.404656	0.300864992	0.171596011
ENSG00000104131	EIF3J	5169.614592	0.300529161	0.223934878
ENSG00000123505	AMD1	5649.840879	0.300447998	0.216916443
ENSG00000138867	GUCD1	1590.639472	0.300388742	0.199353807
ENSG00000063169	BICRA	743.8273207	0.300226536	0.337331729
ENSG00000197050	ZNF420	269.2928467	0.30018227	0.345855997
ENSG00000121406	ZNF549	145.46648	0.299902544	0.43635556
ENSG00000272325	NUDT3	81.35058286	0.299812902	0.593443051
ENSG00000244405	ETV5	2402.12771	0.2997914	0.463593524
ENSG00000232638	AL390294.1	10.71142404	0.299553221	0.831702483
ENSG00000171763	SPATA5L1	353.1371705	0.299300803	0.379104135
ENSG00000176845	METRNL	4240.192786	0.299283182	0.222953646
ENSG00000117614	SYF2	1786.572624	0.299252966	0.196834328
ENSG00000197106	SLC6A17	11.11272554	0.298951131	0.821044273
ENSG00000172273	HINFP	648.4405763	0.298908116	0.321604925
ENSG00000224546	EIF4BP3	119.5332173	0.298853745	0.4772645
ENSG00000178075	GRAMD1C	662.3965502	0.29878771	0.443501491
ENSG00000134775	FHOD3	6.105973059	0.298649328	0.869458052
ENSG00000169282	KCNAB1	21.12322043	0.298438531	0.748473002
ENSG00000181045	SLC26A11	581.2387816	0.298008994	0.273213746

ENSG00000227953	LINC01341	4.178967635	0.29762953	0.91563348
ENSG00000122034	GTF3A	2556.891247	0.297422185	0.142130311
ENSG00000268516	AC020915.2	42.73529628	0.297366672	0.665770478
ENSG00000167797	CDK2AP2	1403.936747	0.297276184	0.20783663
ENSG00000227081	AC005912.1	512.9634563	0.297044389	0.263786571
ENSG00000141551	CSNK1D	3636.550385	0.297032765	0.199569809
ENSG00000100836	PABPN1	2165.349873	0.297020169	0.242570151
ENSG00000259038	AL121820.2	14.28163962	0.29688925	0.791691848
ENSG00000283573	AL157371.2	13.43913903	0.296866349	0.846234646
ENSG00000172932	ANKRD13D	1079.713372	0.29669053	0.303022124
ENSG00000114902	SPCS1	2766.575332	0.296660028	0.169253968
ENSG00000174109	C16orf91	638.5831377	0.296403797	0.23638253
ENSG00000257337	AC068888.1	65.98885062	0.296349919	0.651294182
ENSG00000140830	TXNL4B	454.7472438	0.296225397	0.347702188
ENSG00000112306	RPS12	21455.56415	0.296219599	0.12382524
ENSG00000107798	LIPA	857.0255253	0.295985902	0.376962233
ENSG00000117036	ETV3	1745.593192	0.295975183	0.229791933
ENSG00000153832	FBXO36	378.6454911	0.295914095	0.361366614
ENSG00000168300	PCMTD1	1331.855374	0.29585806	0.32134826
ENSG00000030582	GRN	12257.31326	0.295846083	0.180048586
ENSG00000162434	JAK1	2422.883847	0.295779496	0.148150445
ENSG00000162191	UBXN1	3871.2883	0.295761612	0.200361558
ENSG00000259972	AC009120.2	8.345869247	0.295381229	0.862919798
ENSG00000180787	ZFP3	6.00741063	0.295080876	0.864771416

ENSG00000147592	LACTB2	82.69970977	0.295048949	0.601971848
ENSG00000090989	EXOC1	852.9749834	0.294773089	0.280215692
ENSG00000187630	DHRS4L2	6.812817972	0.294619102	0.864944338
ENSG00000130479	MAP1S	1904.531266	0.294515395	0.450239907
ENSG00000269481	AC010319.4	10.48528799	0.294167215	0.836039574
ENSG00000082153	BZW1	3753.311453	0.294113	0.21977689
ENSG00000100647	SUSD6	1721.567316	0.294111459	0.21019667
ENSG00000027869	SH2D2A	60.85873605	0.294093886	0.658511636
ENSG00000132781	MUTYH	17.85120348	0.294002292	0.791961716
ENSG00000120800	UTP20	869.9521672	0.293814671	0.329765765
ENSG00000124588	NQO2	938.2442675	0.293556124	0.241271361
ENSG00000101882	NKAP	572.9726526	0.293338178	0.270823551
ENSG00000044574	HSPA5	106814.4513	0.29333204	0.358671748
ENSG00000269556	TMEM185A	320.2232249	0.293320268	0.344000827
ENSG00000143443	C1orf56	77.99771935	0.293099351	0.58137917
ENSG00000257621	PSMA3-AS1	175.0029551	0.293065063	0.510617213
ENSG00000165006	UBAP1	5535.240478	0.292856712	0.268767912
ENSG00000184956	MUC6	9.985106868	0.292802734	0.829070202
ENSG00000203875	SNHG5	2468.345263	0.292430575	0.281060895
ENSG00000280407	AC132872.4	40.00412047	0.292080371	0.760798586
ENSG00000130522	JUND	8393.19683	0.292047028	0.415289001
ENSG00000178127	NDUFV2	20.35595788	0.292012285	0.803264414
ENSG00000160161	CILP2	13.2723743	0.29193897	0.80772792
ENSG00000131165	CHMP1A	3328.722918	0.29182419	0.241693608

ENSG00000272849	AC084018.1	35.91738457	0.291733868	0.688903617
ENSG00000150527	MIA2	1668.267429	0.291710413	0.379734852
ENSG00000278390	AL354696.2	31.17349093	0.291607066	0.72574891
ENSG00000129667	RHBDF2	535.6106707	0.29144493	0.259097212
ENSG00000174903	RAB1B	3061.506256	0.291275958	0.164655829
ENSG00000100503	NIN	2397.972361	0.291157124	0.325157915
ENSG00000155957	TMBIM4	60.10564432	0.291071496	0.630143873
ENSG00000105856	HBP1	4521.542795	0.291036742	0.161243172
ENSG00000086015	MAST2	2859.294912	0.29088525	0.287369629
ENSG00000171612	SLC25A33	1101.674221	0.290797209	0.304767003
ENSG00000164172	MOCS2	765.2615374	0.290744138	0.268517661
ENSG00000105865	DUS4L	200.0506842	0.290575967	0.512583264
ENSG00000262001	DLGAP1-AS2	15.38371439	0.290561207	0.813873644
ENSG00000162032	SPSB3	7.369054283	0.290520173	0.857289065
ENSG00000274372	LINC02804	15.75317802	0.290286351	0.77944723
ENSG00000279170	TSTD3	43.44366355	0.289778944	0.653979093
ENSG00000089248	ERP29	7294.843426	0.28957175	0.226494914
ENSG00000079616	KIF22	4466.084689	0.28933101	0.214706342
ENSG00000123144	TRIR	4237.301947	0.289263874	0.184265195
ENSG00000280213	UCKL1-AS1	12.5540072	0.289133962	0.843033075
ENSG00000233270	SNRPEP4	22.03939724	0.288857929	0.739122249
ENSG00000176641	RNF152	8.670310341	0.288821594	0.859341596
ENSG00000130770	ATP5IF1	2420.597472	0.28878937	0.300082811
ENSG00000126012	KDM5C	7645.743119	0.288770883	0.213035977

ENSG00000105185	PDCD5	952.1485515	0.288525153	0.231784555
ENSG00000185883	ATP6V0C	10.67880449	0.288493249	0.864261469
ENSG00000237977	EIF4HP2	6.129751666	0.288335598	0.87415237
ENSG00000168779	SHOX2	4.617511612	0.288271766	0.887109801
ENSG00000142507	PSMB6	8688.822816	0.288264665	0.184430738
ENSG00000267809	NDUFV2P1	64.7387452	0.288262095	0.626250162
ENSG00000130255	RPL36	8428.062901	0.288255343	0.248266829
ENSG00000232119	MCTS1	1509.488929	0.288230763	0.19592552
ENSG00000198010	DLGAP2	17.94182553	0.28814751	0.776861578
ENSG00000106635	BCL7B	1879.726958	0.288118522	0.26941076
ENSG00000101751	POLI	890.094801	0.287708102	0.431003916
ENSG00000107554	DNMBP	480.7112749	0.287597711	0.381644568
ENSG00000260751	AC008870.2	8.225047818	0.287455212	0.851772801
ENSG00000197852	INKA2	30.66617589	0.287412621	0.715559665
ENSG00000105193	RPS16	23294.55134	0.287294224	0.182880304
ENSG00000100522	GNPNAT1	980.0269551	0.287137806	0.215161163
ENSG00000115904	SOS1	982.5430196	0.286778745	0.303138899
ENSG00000110768	GTF2H1	1370.010869	0.286680193	0.369047804
ENSG00000117533	VAMP4	192.1501	0.286663683	0.520940117
ENSG00000143486	EIF2D	1099.835317	0.286597653	0.302034622
ENSG00000226221	RPL26P19	69.76058852	0.286527846	0.610768941
ENSG00000183605	SFXN4	875.2982969	0.286502514	0.283634217
ENSG00000104064	GABPB1	2422.058823	0.286252973	0.254900092
ENSG00000145782	ATG12	1658.843109	0.286157163	0.178963594

ENSG00000155903	RASA2	748.7964184	0.286103352	0.351770643
ENSG00000074603	DPP8	828.5480423	0.286052263	0.309262826
ENSG00000244165	P2RY11	58.99268342	0.285999898	0.686006064
ENSG00000180867	PDIA3P1	398.7236679	0.285962455	0.421933058
ENSG00000118402	ELOVL4	1107.938365	0.285915091	0.58178369
ENSG00000145331	TRMT10A	334.4882756	0.285824342	0.312347693
ENSG00000125388	GRK4	19.58786849	0.285740124	0.825188226
ENSG00000173456	RNF26	1446.300384	0.285643191	0.201193627
ENSG00000244026	FAM86DP	189.9667683	0.285567044	0.406235948
ENSG00000119812	FAM98A	3741.407021	0.285468459	0.258993131
ENSG00000109079	TNFAIP1	5276.505382	0.28529425	0.392885875
ENSG00000164086	DUSP7	133.5194141	0.285237848	0.610595143
ENSG00000099624	ATP5F1D	1504.494805	0.285181573	0.271892299
ENSG00000171346	KRT15	35.6834045	0.28514429	0.69314285
ENSG00000133030	MPRIP	12954.07256	0.285111524	0.190452658
ENSG00000188243	COMMD6	409.0655373	0.284650017	0.354059688
ENSG00000142409	ZNF787	181.0971092	0.284472247	0.432887141
ENSG00000102409	BEX4	2839.500477	0.284432998	0.286654292
ENSG00000242798	AC073842.2	9.718502258	0.284367288	0.864521362
ENSG00000143847	PPFIA4	7.63452579	0.284321743	0.853737669
ENSG00000102580	DNAJC3	10233.91482	0.284187564	0.271109984
ENSG00000196458	ZNF605	93.18042849	0.284106925	0.608142518
ENSG00000106460	TMEM106B	1324.637232	0.283909793	0.452090829
ENSG00000237037	NDUFA6-DT	20.96811672	0.283868971	0.7689842

ENSG00000004975	DVL2	1876.324594	0.283836886	0.172619941
ENSG00000136942	RPL35	10871.61653	0.283715797	0.197111837
ENSG00000168038	ULK4	301.1766524	0.28365187	0.331051283
ENSG00000115514	TXNDC9	1291.834975	0.283600938	0.259064729
ENSG00000188321	ZNF559	64.52635826	0.283522381	0.602649649
ENSG00000158941	CCAR2	2288.930265	0.283241773	0.200152949
ENSG00000104936	DMPK	236.7866412	0.283072395	0.482140215
ENSG00000167105	TMEM92	96.64646227	0.283010454	0.565332066
ENSG00000043093	DCUN1D1	773.342157	0.282698022	0.296491749
ENSG00000179046	TRIML2	659.9103861	0.282684063	0.477310286
ENSG00000170949	ZNF160	906.4352396	0.282582729	0.383387895
ENSG00000269973	AC010969.2	109.2010061	0.282492804	0.525486027
ENSG00000182117	NOP10	3261.628536	0.282284221	0.247125307
ENSG00000273151	AC073957.3	118.1190838	0.282212756	0.622428464
ENSG00000138162	TACC2	27155.45701	0.282167226	0.363321775
ENSG00000092094	OSGEP	506.4899719	0.282135328	0.299443485
ENSG00000120820	GLT8D2	49.91965627	0.282016637	0.701212636
ENSG00000148841	ITPRIP	1567.505962	0.28199476	0.438224797
ENSG00000137270	GCM1	17891.77183	0.28197583	0.407047881
ENSG00000167930	FAM234A	3449.667995	0.281839235	0.371745183
ENSG00000181789	COPG1	14515.16765	0.281757494	0.330410403
ENSG00000143373	ZNF687	1420.397928	0.281416733	0.256938021
ENSG00000070770	CSNK2A2	2260.147513	0.281413527	0.195383914
ENSG00000154914	USP43	2076.565832	0.281390914	0.41893371

ENSG00000285973	AC063960.2	4.740095496	0.281386218	0.891754589
ENSG00000140983	RHOT2	1948.403861	0.281059474	0.255384423
ENSG00000215835	AL596087.1	6.575393513	0.281041032	0.870911866
ENSG00000132824	SERINC3	7773.283145	0.2809624	0.351395409
ENSG00000123131	PRDX4	6942.497656	0.280799427	0.203018228
ENSG00000086666	ZFAND6	3004.815225	0.280783831	0.228728282
ENSG00000124429	POF1B	36.09247965	0.28077502	0.734761146
ENSG00000256525	POLG2	416.563937	0.280741092	0.405944592
ENSG00000116922	C1orf109	491.8899849	0.280550586	0.270098637
ENSG00000270629	NBPF14	759.8550111	0.280149461	0.426024925
ENSG00000100418	DESI1	920.467922	0.280138416	0.252608908
ENSG00000150776	NKAPD1	746.973773	0.280099569	0.298916364
ENSG00000176170	SPHK1	471.0325769	0.279938348	0.457756203
ENSG00000168564	CDKN2AIP	597.3592786	0.279865059	0.284095423
ENSG00000204498	NFKBIL1	358.5497124	0.279823266	0.352469213
ENSG00000169220	RGS14	296.3115712	0.279765883	0.465774063
ENSG00000159111	MRPL10	1916.899628	0.279690197	0.167216158
ENSG00000258704	SRP54-AS1	16.19613378	0.279603095	0.813163764
ENSG00000129566	TEP1	871.7442029	0.279594146	0.478471417
ENSG00000093144	ECHDC1	563.9288681	0.279570639	0.475391785
ENSG00000180008	SOCS4	314.3584335	0.279565646	0.404157284
ENSG00000090273	NUDC	4176.171959	0.27934682	0.204595527
ENSG00000136897	MRPL50	798.9250053	0.279302368	0.401207589
ENSG00000136279	DBNL	2972.754589	0.279187798	0.217958199

ENSG00000179918	SEPHS2	1348.408182	0.278955659	0.266680501
ENSG00000168884	TNIP2	6965.643388	0.278945485	0.20292293
ENSG00000067221	STOML1	75.96739128	0.278513918	0.576860522
ENSG00000007516	BAIAP3	231.8155992	0.278313276	0.537750628
ENSG00000138134	STAMBPL1	6.812475621	0.278306745	0.862693851
ENSG00000162572	SCNN1D	9.614700609	0.278092542	0.856711028
ENSG00000241553	ARPC4	1045.561384	0.277916877	0.488696517
ENSG00000185813	PCYT2	1567.315587	0.277686939	0.317597573
ENSG00000167535	CACNB3	360.2602143	0.277640058	0.397235937
ENSG00000135966	TGFBRAP1	2432.646209	0.277500234	0.178081949
ENSG00000204977	TRIM13	1699.369843	0.277377076	0.274191286
ENSG00000231856	AL162377.1	20.12975093	0.277372351	0.82411074
ENSG00000185344	ATP6V0A2	675.3158865	0.277319013	0.297966779
ENSG00000108590	MED31	135.3798793	0.277192176	0.554754241
ENSG00000135722	FBXL8	81.24177639	0.277127861	0.54615031
ENSG00000108561	C1QBP	3868.395925	0.276936322	0.413555727
ENSG00000157778	PSMG3	1327.104021	0.276839215	0.286930191
ENSG00000181467	RAP2B	969.3275777	0.276739533	0.321884977
ENSG00000130159	ECSIT	1158.346319	0.276713157	0.278638971
ENSG00000144736	SHQ1	442.4834955	0.27641888	0.387873055
ENSG00000188021	UBQLN2	1439.533248	0.276318053	0.222026824
ENSG00000058600	POLR3E	1988.431495	0.276278382	0.268892287
ENSG00000205667	ARSH	14.50358066	0.276255158	0.823480559
ENSG00000099399	MAGEB2	3.940961354	0.276249655	0.915017466

ENSG00000198406	BZW1P2	39.07992609	0.276135168	0.715633594
ENSG00000260912	AL158206.1	1693.357972	0.276116204	0.347133271
ENSG00000102981	PARD6A	101.0199698	0.275898761	0.598746174
ENSG00000154723	ATP5PF	2188.531119	0.275825597	0.238702796
ENSG00000174720	LARP7	994.5432401	0.275792364	0.30662463
ENSG00000137449	CPEB2	428.5595763	0.275784727	0.490452488
ENSG00000115657	ABCB6	21.79660289	0.275716772	0.75867483
ENSG00000253251	SHLD3	182.9014377	0.275269544	0.604078558
ENSG00000267002	AC060780.1	75.02398592	0.275240994	0.637386844
ENSG00000130725	UBE2M	3672.983803	0.275152676	0.384848319
ENSG00000101444	AHCY	15787.10201	0.275078345	0.27971944
ENSG00000204370	SDHD	1069.426682	0.274767291	0.313521364
ENSG00000215908	CROCCP2	381.1482857	0.274762422	0.340618145
ENSG00000010322	NISCH	2128.425573	0.274709037	0.39739957
ENSG00000075413	MARK3	5004.287203	0.274570218	0.258761466
ENSG00000110756	HPS5	615.3462991	0.274453056	0.312406803
ENSG00000101161	PRPF6	5798.847959	0.274296956	0.172873734
ENSG00000105205	CLC	16.26515576	0.274284541	0.8307581
ENSG00000135241	PNPLA8	2772.730879	0.274264943	0.178357884
ENSG00000182795	C1orf116	38.85328856	0.274216076	0.707696136
ENSG00000171858	RPS21	5277.783997	0.273936374	0.195976978
ENSG00000110696	C11orf58	6073.995939	0.273816983	0.180814912
ENSG00000181904	C5orf24	441.6364049	0.273674942	0.42016259
ENSG00000242247	ARFGAP3	3476.136852	0.273628129	0.519588384

ENSG00000114686	MRPL3	1944.880775	0.273538787	0.220611491
ENSG00000254207	AC100797.1	7.995225763	0.273495985	0.856711028
ENSG00000135686	KLHL36	1064.759094	0.273027565	0.377331426
ENSG00000146592	CREB5	93.29929506	0.272996127	0.67090933
ENSG00000162755	KLHDC9	10.92130752	0.272926126	0.872291
ENSG00000145901	TNIP1	5588.404843	0.272827629	0.205956771
ENSG00000229980	TOB1-AS1	2.665741	0.27281	0.9357866
ENSG00000130449	ZSWIM6	79.68917845	0.272670445	0.641498764
ENSG00000277142	LINC00235	7.314569318	0.272431279	0.900304768
ENSG00000203711	C6orf99	167.3053545	0.272332553	0.616880355
ENSG00000127191	TRAF2	1465.64157	0.272146187	0.243671358
ENSG00000023318	ERP44	4783.03799	0.27208771	0.190944295
ENSG00000106266	SNX8	3930.407807	0.272032688	0.423232521
ENSG00000156928	MALSU1	888.1093532	0.272004663	0.356978092
ENSG00000112079	STK38	1893.6097	0.271973592	0.223796921
ENSG00000265763	ZNF488	822.7587023	0.271871565	0.385774265
ENSG00000243978	RTL9	18.59837194	0.271497675	0.815974825
ENSG00000213619	NDUFS3	1847.039209	0.271462962	0.309530731
ENSG00000074319	TSG101	3392.547904	0.271432632	0.307014015
ENSG00000131467	PSME3	6741.677028	0.271431136	0.281095383
ENSG00000133636	NTS	42.21979527	0.271358291	0.682891873
ENSG00000149792	MRPL49	5645.211061	0.271356203	0.197385811
ENSG00000109083	IFT20	1417.054049	0.271157306	0.455393495
ENSG00000273559	CWC25	849.3815024	0.271125235	0.498161462

ENSG00000111261	MANSC1	575.4189802	0.271091474	0.324103098
ENSG00000172590	MRPL52	2178.338839	0.270905198	0.26333502
ENSG00000261231	LINC02133	25.59147669	0.270902211	0.738395403
ENSG00000198590	C3orf35	9.17710662	0.270687357	0.851752297
ENSG00000278611	ZNF426-DT	12.07022035	0.270560627	0.841907583
ENSG00000204595	DPRX	7.86716668	0.270368628	0.882914221
ENSG00000100354	TNRC6B	939.7119289	0.270184864	0.420958005
ENSG00000182004	SNRPE	3077.636427	0.270126262	0.302473343
ENSG00000095574	IKZF5	469.2364804	0.270098471	0.292332535
ENSG00000106052	TAX1BP1	7077.002924	0.270062994	0.293647762
ENSG00000234608	MAPKAPK5-AS1	528.1209147	0.269865208	0.480121996
ENSG00000115541	HSPE1	451.7677036	0.269775313	0.395472224
ENSG00000036054	TBC1D23	2329.923104	0.269663779	0.292826962
ENSG00000102531	FNDC3A	10535.56778	0.269587098	0.327022883
ENSG00000118322	ATP10B	31.90972332	0.269563405	0.71397313
ENSG00000279520	AC093525.8	49.18080731	0.269112898	0.726681731
ENSG00000213965	NUDT19	268.9169181	0.269029699	0.384897023
ENSG00000111269	CREBL2	819.2075453	0.268735379	0.285238674
ENSG00000167004	PDIA3	128116.034	0.268516095	0.298021236
ENSG00000101391	CDK5RAP1	1466.142392	0.268265166	0.288090695
ENSG00000180448	ARHGAP45	2044.852245	0.268194728	0.281673559
ENSG00000161714	PLCD3	1849.501335	0.268151037	0.474034299
ENSG00000158669	GPAT4	4378.31469	0.267779683	0.274420275
ENSG00000188996	HUS1B	18.78792935	0.267634628	0.800526828

ENSG00000106330	MOSPD3	203.1316464	0.267628959	0.448090745
ENSG00000127415	IDUA	32.13190599	0.267526102	0.714979398
ENSG00000151623	NR3C2	21.5675555	0.267516272	0.812036454
ENSG00000259562	AC090607.2	13.17177012	0.267048276	0.8179326
ENSG00000114120	SLC25A36	1372.87405	0.267010033	0.335031572
ENSG00000117245	KIF17	226.0522489	0.266738515	0.627938698
ENSG00000132676	DAP3	7521.517319	0.266562179	0.216483927
ENSG00000237190	CDKN2AIPNL	484.5762068	0.266422493	0.356073437
ENSG00000118690	ARMC2	37.33720361	0.266412334	0.72880882
ENSG00000216937	CCDC7	4.99334511	0.266244552	0.925769334
ENSG00000253106	AC090198.1	20.03158434	0.266209041	0.793906493
ENSG00000163382	NAXE	1405.203081	0.265736165	0.424369658
ENSG00000104177	MYEF2	5.691777415	0.265563368	0.902958067
ENSG00000198911	SREBF2	12790.53664	0.265458036	0.508014451
ENSG00000171105	INSR	2653.855442	0.265439204	0.598585652
ENSG00000100003	SEC14L2	12.87548489	0.265313507	0.818583371
ENSG00000055044	NOP58	3144.137007	0.265117558	0.388437009
ENSG00000177822	TENM3-AS1	125.8704757	0.264926583	0.492063865
ENSG00000182578	CSF1R	1589.358153	0.264872154	0.293796835
ENSG00000127957	PMS2P3	40.03246813	0.264546943	0.699955516
ENSG00000084674	APOB	8.943268733	0.264462147	0.870731217
ENSG00000132010	ZNF20	5.713921832	0.264362946	0.909447467
ENSG00000108448	TRIM16L	130.2920573	0.264044861	0.631398417
ENSG00000168461	RAB31	9637.898035	0.263535993	0.274922554

ENSG00000005100	DHX33	1331.666512	0.263362519	0.346345875
ENSG00000163516	ANKZF1	1759.092284	0.262891389	0.39803664
ENSG00000255583	AC084357.3	13.3869362	0.262803444	0.818704941
ENSG00000135974	C2orf49	1079.060173	0.262794856	0.379375963
ENSG00000140254	DUOXA1	4.625976596	0.262734536	0.899246525
ENSG00000086065	CHMP5	4914.582579	0.262728707	0.263671148
ENSG00000111481	COPZ1	5587.238412	0.262715835	0.196619575
ENSG00000168826	ZBTB49	80.2842657	0.26268848	0.640112749
ENSG00000117305	HMGCL	572.530706	0.262661622	0.547410023
ENSG00000277290	AC136475.10	17.30558218	0.262580036	0.82082255
ENSG00000181751	C5orf30	980.9739964	0.262213351	0.469103618
ENSG00000104679	R3HCC1	433.6357508	0.262204564	0.45375936
ENSG00000114744	COMMD2	1067.478163	0.262115683	0.299067264
ENSG00000204832	ST8SIA6-AS1	170.9247623	0.262045878	0.547781844
ENSG00000104980	TIMM44	1422.829719	0.262033775	0.343436067
ENSG00000168264	IRF2BP2	2958.144741	0.262002766	0.426806142
ENSG00000196437	ZNF569	104.0678901	0.26185865	0.604493515
ENSG00000280020	AC116407.3	5.974654282	0.26181154	0.897766182
ENSG00000112983	BRD8	2978.055267	0.261492524	0.213695774
ENSG00000165526	RPUSD4	912.1539892	0.261463533	0.360193496
ENSG00000286389	AL731702.1	6.053682318	0.261185721	0.883524428
ENSG00000100605	ITPK1	1633.30783	0.261011684	0.338097771
ENSG00000132963	POMP	3542.57089	0.260808878	0.368317901
ENSG00000267571	AC104532.2	5.287086447	0.260176351	0.898249378

ENSG00000140374	ETFA	5100.645889	0.260162706	0.260641905
ENSG00000138814	PPP3CA	1521.178053	0.260073163	0.39799994
ENSG00000184786	TCTE3	23.43881858	0.259947155	0.782304221
ENSG00000109390	NDUFC1	653.5745025	0.259877667	0.350315487
ENSG00000174165	ZDHHC24	258.3839334	0.259739532	0.438704564
ENSG00000155085	AK9	84.1197847	0.259560686	0.6213413
ENSG00000169903	TM4SF4	23.70625356	0.259490414	0.781522785
ENSG00000131023	LATS1	617.4826249	0.259473716	0.380303264
ENSG00000175324	LSM1	635.1013998	0.259389447	0.331924272
ENSG00000100348	TXN2	3768.771174	0.259125976	0.229896122
ENSG00000271344	AC018638.6	2.805625	0.2590165	0.9505434
ENSG00000146007	ZMAT2	4369.654597	0.258742684	0.28427085
ENSG00000221930	DENND10P1	19.36935514	0.258649637	0.780367913
ENSG00000139726	DENR	2740.509464	0.258631242	0.207971408
ENSG00000162576	MXRA8	11139.33187	0.25862553	0.371581286
ENSG00000135245	HILPDA	1162.900738	0.258616738	0.374574863
ENSG00000170837	GPR27	4.990405874	0.258575863	0.898656868
ENSG00000160218	TRAPPC10	1412.059885	0.258467166	0.339631404
ENSG00000213593	TMX2	3604.786363	0.25844824	0.350315487
ENSG00000163512	AZI2	567.1121794	0.258403469	0.343224144
ENSG00000170653	ATF7	340.4426434	0.258402438	0.361968556
ENSG00000156427	FGF18	595.2409898	0.258385263	0.603346291
ENSG00000165275	TRMT10B	183.9696496	0.258109623	0.490428647
ENSG00000175215	CTDSP2	7199.928736	0.258089272	0.385697422

ENSG00000127870	RNF6	3212.056808	0.257936923	0.339502479
ENSG00000143387	CTSK	122.5457732	0.257631452	0.547581443
ENSG00000125703	ATG4C	698.3591892	0.257381196	0.566052141
ENSG00000170634	ACYP2	31.5723897	0.257153128	0.751708976
ENSG00000076984	MAP2K7	1755.420266	0.257075871	0.377928785
ENSG00000148357	HMCN2	7.571612814	0.257020859	0.8652022
ENSG00000169951	ZNF764	109.0883175	0.256945774	0.569810643
ENSG00000073792	IGF2BP2	5520.420473	0.256822154	0.280133836
ENSG00000131051	RBM39	7976.5282	0.25658766	0.327022883
ENSG00000119402	FBXW2	1672.332464	0.256551454	0.247556612
ENSG00000119125	GDA	105.7698266	0.256358138	0.666160791
ENSG00000237476	LINC01637	6.752563405	0.256303521	0.883674981
ENSG00000004848	ARX	8.37365736	0.256221221	0.906578961
ENSG00000233927	RPS28	9317.706003	0.255928924	0.269694609
ENSG00000101654	RNMT	2064.896915	0.255914932	0.268146053
ENSG00000163159	VPS72	3833.138606	0.255654931	0.289042546
ENSG00000164877	MICALL2	3435.740786	0.255623944	0.377875985
ENSG00000198346	ZNF813	495.8206924	0.255501702	0.306849012
ENSG00000112335	SNX3	3047.791206	0.255424589	0.245116437
ENSG00000165591	FAAH2	194.3625561	0.255392277	0.550619209
ENSG00000145103	ILDR1	37.23499246	0.255354682	0.79862177
ENSG00000064195	DLX3	11229.33678	0.255270316	0.286810824
ENSG00000089234	BRAP	989.5261494	0.255224144	0.395374445
ENSG00000160867	FGFR4	3272.023924	0.255183367	0.46938053

ENSG00000134852	CLOCK	319.9010227	0.255177786	0.458459856
ENSG00000106244	PDAP1	5054.213321	0.254985165	0.219804997
ENSG00000125650	PSPN	32.99572748	0.254705427	0.720617281
ENSG00000167565	SERTAD3	1914.433335	0.254636099	0.317956277
ENSG00000243317	STMP1	761.5697109	0.25437851	0.389448153
ENSG00000106683	LIMK1	1595.309535	0.254313388	0.534130525
ENSG00000251169	LINC01843	10.72808053	0.254268734	0.865103291
ENSG00000254039	AC027801.3	77.53191824	0.254227662	0.655738393
ENSG00000114648	KLHL18	803.0660092	0.25419374	0.321338538
ENSG00000188234	AGAP4	120.1436957	0.254014672	0.640859195
ENSG00000084623	EIF3I	9208.121613	0.253570818	0.200905528
ENSG00000256683	ZNF350	498.1458135	0.253555446	0.352259409
ENSG00000103343	ZNF174	132.0122588	0.253516756	0.679183582
ENSG00000114784	EIF1B	877.6732652	0.253489524	0.399702572
ENSG00000175832	ETV4	12698.38958	0.253380875	0.501035103
ENSG00000128052	KDR	5.01134536	0.253335335	0.90267406
ENSG00000170035	UBE2E3	1523.270673	0.253189935	0.267475538
ENSG00000167110	GOLGA2	8495.987822	0.253154883	0.474034299
ENSG00000256591	AP003108.2	10.50684142	0.253153884	0.847685183
ENSG00000112658	SRF	2184.485368	0.252961696	0.298714074
ENSG00000141639	MAPK4	1677.215697	0.252918089	0.466612154
ENSG00000198040	ZNF84	220.970872	0.252781995	0.575911678
ENSG00000093072	ADA2	3.246142	0.2527803	0.9426476
ENSG00000168495	POLR3D	2379.605168	0.252752815	0.389448153

ENSG00000086544	ITPKC	1290.733545	0.252481837	0.293101784
ENSG00000187624	C17orf97	11.30850726	0.252459247	0.853506815
ENSG00000117481	NSUN4	1119.910345	0.252440576	0.269646337
ENSG00000084652	TXLNA	2904.464385	0.252055257	0.290883777
ENSG00000266601	AC018521.6	5.692306791	0.251956739	0.896191976
ENSG00000106610	STAG3L4	652.103746	0.251776635	0.512701258
ENSG00000160182	TFF1	46.47981385	0.251726413	0.736293618
ENSG00000236013	AL357146.1	7.191347789	0.251370075	0.890355055
ENSG00000126953	TIMM8A	564.4796059	0.251338527	0.412659616
ENSG00000245970	AP003352.1	13.15731369	0.251311005	0.862565231
ENSG00000260604	AL590004.3	8.161154302	0.251309625	0.875032077
ENSG00000066827	ZFAT	573.8944747	0.251272367	0.470060483
ENSG00000173261	PLAC8L1	7.450751034	0.251005919	0.876392636
ENSG00000179523	EIF3J-DT	95.7555286	0.250505873	0.581812285
ENSG00000143641	GALNT2	30716.35319	0.250407611	0.428006649
ENSG00000165699	TSC1	3850.950623	0.250350444	0.400557384
ENSG00000226084	AC113935.1	94.27789188	0.250032623	0.601340923
ENSG00000171928	TVP23B	2462.346807	0.249984529	0.319328027
ENSG00000275833	AC073107.2	8.58953352	0.249932093	0.862919798
ENSG00000138785	INTS12	361.4688103	0.249892751	0.434317541
ENSG00000230148	HOXB-AS1	6.512361962	0.249746394	0.909901812
ENSG00000136205	TNS3	23476.28312	0.249516796	0.233292188
ENSG00000196505	GDAP2	1492.356101	0.249421539	0.280435893
ENSG00000261270	AC012181.2	14.20378168	0.249270885	0.836831721

ENSG00000029153	ARNTL2	601.7233307	0.249220783	0.317956277
ENSG00000226686	LINC01535	20.82607236	0.249217469	0.803784163
ENSG00000267476	AC104365.1	7.221821605	0.249144978	0.885671321
ENSG00000046653	GPM6B	12.40771869	0.248971729	0.855093696
ENSG00000172262	ZNF131	1359.124215	0.248967718	0.42923314
ENSG00000110367	DDX6	8434.133703	0.248822868	0.263671148
ENSG00000108813	DLX4	856.5287919	0.248809575	0.487283166
ENSG00000264538	SUZ12P1	116.9411748	0.248722103	0.535377713
ENSG00000118596	SLC16A7	5.366332168	0.248640547	0.927038096
ENSG00000272556	GTF2IP13	81.42096167	0.248601874	0.672863704
ENSG00000170379	TCAF2	1382.380148	0.248596933	0.439398369
ENSG00000153561	RMND5A	2457.773077	0.248565704	0.29326008
ENSG00000077458	FAM76B	257.3141084	0.248407225	0.503259749
ENSG00000198538	ZNF28	1894.164398	0.248297713	0.363814216
ENSG00000111229	ARPC3	5948.666053	0.247870827	0.22244178
ENSG00000077009	NMRK2	765.6560241	0.247751582	0.687395355
ENSG00000057663	ATG5	2727.848225	0.247748304	0.375595846
ENSG00000138759	FRAS1	10.89839303	0.247697147	0.853506815
ENSG00000152332	UHMK1	2233.782553	0.247680355	0.380831394
ENSG00000156983	BRPF1	937.6257428	0.24756255	0.439652892
ENSG00000140009	ESR2	134.7497838	0.247413465	0.69172227
ENSG00000105819	PMPCB	1960.351812	0.247172455	0.354632675
ENSG00000181085	MAPK15	33.3136626	0.247138135	0.767151818
ENSG00000213741	RPS29	3311.154042	0.246955703	0.331094516

ENSG00000120129	DUSP1	857.212785	0.246883681	0.498831331
ENSG00000155393	HEATR3	576.9546683	0.246845628	0.426806142
ENSG00000092931	MFSD11	1082.389193	0.246685417	0.349615137
ENSG00000176018	LYSMD3	1220.420961	0.246398358	0.528534869
ENSG00000085415	SEH1L	1983.236666	0.246338011	0.305277989
ENSG00000188917	TRMT2B	467.9258075	0.246255463	0.393908424
ENSG00000287419	AL121929.3	75.36655291	0.246250539	0.643066934
ENSG00000131061	ZNF341	1169.244335	0.246103205	0.495398171
ENSG00000137074	APTX	1954.558986	0.245933836	0.331924272
ENSG00000099381	SETD1A	1249.276218	0.245832039	0.430488749
ENSG00000145040	UCN2	9.25857898	0.245530202	0.874328237
ENSG00000130720	FIBCD1	930.6747026	0.245505391	0.581572764
ENSG00000135778	NTPCR	828.0120444	0.245327427	0.408902949
ENSG00000164162	ANAPC10	77.9248258	0.245280945	0.644321444
ENSG00000007264	MATK	24.83744721	0.245231718	0.798455447
ENSG00000112144	ICK	2651.16965	0.245124944	0.288096832
ENSG00000163191	S100A11	19802.64442	0.244949021	0.293313273
ENSG00000062282	DGAT2	17.39819352	0.244811229	0.840820856
ENSG00000124641	MED20	995.7990834	0.24467369	0.392105821
ENSG00000114023	FAM162A	643.0630378	0.244539859	0.541062954
ENSG00000224195	AC022400.1	16.4259583	0.244343425	0.839326098
ENSG00000152382	TADA1	766.951811	0.244286487	0.420556359
ENSG00000259422	AC091100.1	3.621131597	0.244152642	0.929692911
ENSG00000171530	TBCA	2148.573011	0.244001626	0.321884977

ENSG00000159840	ZYX	2314.415416	0.243886323	0.396126348
ENSG00000059769	DNAJC25	256.967063	0.243657584	0.536145774
ENSG00000134955	SLC37A2	12.91486131	0.24353495	0.858282049
ENSG00000142627	EPHA2	4159.593313	0.243496262	0.528347974
ENSG00000174989	FBXW8	230.7764106	0.243482554	0.508185361
ENSG00000255455	AP003486.1	27.36476214	0.243390672	0.772978824
ENSG00000091490	SEL1L3	190.5740589	0.243146958	0.547332119
ENSG00000285756	BX890604.2	422.364024	0.242972221	0.394845606
ENSG00000144028	SNRNP200	12955.13408	0.242820212	0.251884915
ENSG00000130779	CLIP1	14809.35031	0.242648464	0.411722377
ENSG00000123091	RNF11	5072.08128	0.242487453	0.531816272
ENSG00000144214	LYG1	17.29442296	0.242465279	0.82588734
ENSG00000120314	WDR55	1746.221227	0.242380121	0.305025114
ENSG00000136463	TACO1	337.1121848	0.242146322	0.486870451
ENSG00000121057	AKAP1	596.4312464	0.242066897	0.414932266
ENSG00000233834	AC005083.1	14.7244754	0.242003923	0.868131858
ENSG00000125352	RNF113A	786.0903116	0.241944836	0.368347879
ENSG00000121964	GTDC1	457.6930651	0.241875257	0.434103522
ENSG00000267680	ZNF224	125.8677314	0.241825971	0.636928145
ENSG00000240489	SETP14	37.2986604	0.241490706	0.761782779
ENSG00000128908	INO80	1950.314692	0.241440975	0.337663029
ENSG00000010072	SPRTN	658.4152453	0.241386546	0.521116026
ENSG00000120333	MRPS14	749.9957108	0.24117837	0.331337159
ENSG00000111596	CNOT2	1800.30761	0.241038056	0.322038506

ENSG00000182195	LDOC1	24.56826008	0.24098478	0.786766258
ENSG00000154146	NRGN	29.31950025	0.240903536	0.78944566
ENSG00000166333	ILK	18.61792193	0.240817736	0.819902608
ENSG00000167447	SMG8	2201.079082	0.240629444	0.506639684
ENSG00000251562	MALAT1	8439.803278	0.240494447	0.330835759
ENSG00000249628	LINC00942	5.717109617	0.240389552	0.900454201
ENSG00000197006	METTL9	2250.088214	0.240380301	0.285625594
ENSG00000099341	PSMD8	6345.431657	0.240348902	0.268106404
ENSG00000065883	CDK13	1768.837883	0.240292814	0.439526869
ENSG00000144476	ACKR3	269.6222114	0.240184044	0.548631711
ENSG00000268225	AC010487.1	95.87801295	0.24017372	0.672705546
ENSG00000135838	NPL	237.8728375	0.239393575	0.492336735
ENSG00000162971	TYW5	331.7545649	0.2392578	0.447716545
ENSG00000198218	QRICH1	5989.264546	0.239232059	0.262356902
ENSG00000213676	ATF6B	3232.738065	0.23895866	0.369788547
ENSG00000229132	EIF4A1P10	65.53468406	0.238894723	0.699302004
ENSG00000196943	NOP9	979.3976761	0.238807651	0.35818991
ENSG00000120727	PAIP2	2759.123105	0.238694127	0.303138899
ENSG00000136169	SETDB2	175.1725142	0.23863312	0.652276892
ENSG00000266602	AP005262.2	87.94432549	0.238544185	0.671516234
ENSG00000104870	FCGRT	63.51309082	0.238354486	0.672906018
ENSG00000151929	BAG3	3237.224713	0.238250399	0.269527185
ENSG00000245556	SCAMP1-AS1	38.68562643	0.238087774	0.748862695
ENSG00000126249	PDCD2L	169.1406335	0.238064578	0.604078558

ENSG00000267221	C17orf113	29.14990753	0.237967879	0.797083507
ENSG00000167393	PPP2R3B	890.2548545	0.237931811	0.503871795
ENSG00000099800	TIMM13	1459.642967	0.23773006	0.339141447
ENSG00000269243	AC008894.2	4.395634858	0.237712018	0.921462275
ENSG00000066117	SMARCD1	1288.20251	0.237635706	0.283183918
ENSG00000214960	CRPPA	49.94806698	0.237595246	0.765454377
ENSG00000111196	MAGOHB	731.1805087	0.23723971	0.357537366
ENSG00000272841	AL139393.3	219.8216559	0.237225651	0.694205688
ENSG00000116288	PARK7	6048.196507	0.237155029	0.261780651
ENSG00000178904	DPY19L3	582.3291995	0.236933049	0.488588126
ENSG00000109220	CHIC2	181.2980177	0.236469809	0.554978379
ENSG00000102226	USP11	1127.136044	0.236410436	0.330744449
ENSG00000157637	SLC38A10	4294.540483	0.236137135	0.283183918
ENSG00000101365	IDH3B	2342.42152	0.236006309	0.305392276
ENSG00000134461	ANKRD16	83.22589918	0.235992296	0.654733759
ENSG00000176371	ZSCAN2	74.35717522	0.235917094	0.68162475
ENSG00000215193	PEX26	1032.916611	0.235384165	0.328781655
ENSG00000159200	RCAN1	479.2658396	0.235344583	0.533731246
ENSG00000104375	STK3	1057.070923	0.235196762	0.487690125
ENSG00000110906	KCTD10	2735.009066	0.235093591	0.284327538
ENSG00000237080	EHMT2-AS1	5.570228055	0.234982159	0.906502941
ENSG00000104299	INTS9	466.1268221	0.234945165	0.397735044
ENSG00000128595	CALU	25796.95399	0.234882601	0.402377063
ENSG00000170577	SIX2	5.962532435	0.234797275	0.916407093

ENSG00000203780	FANK1	308.1990496	0.234522753	0.525877473
ENSG00000166582	CENPV	192.4164953	0.234409559	0.564309277
ENSG00000136114	THSD1	36.8932943	0.234383994	0.792927496
ENSG00000147654	EBAG9	414.2075435	0.234358331	0.439196866
ENSG00000196776	CD47	8041.095255	0.234195416	0.464635453
ENSG00000159873	CCDC117	2089.590781	0.233794321	0.357244273
ENSG00000225921	NOL7	3109.110728	0.233591853	0.383090602
ENSG00000004961	HCCS	920.1603647	0.23350657	0.547781844
ENSG00000255769	GOLGA2P10	28.89729771	0.233468922	0.783292911
ENSG00000107362	ABHD17B	256.6922478	0.233179145	0.517930006
ENSG00000106477	CEP41	333.6205609	0.233120985	0.466006143
ENSG00000083099	LYRM2	861.3348422	0.232685441	0.421671282
ENSG00000185761	ADAMTSL5	88.43354644	0.232645264	0.634262876
ENSG00000173660	UQCRH	6529.624249	0.232414997	0.291853909
ENSG00000115806	GORASP2	13843.80648	0.232360819	0.296020447
ENSG00000116478	HDAC1	3745.902951	0.232069537	0.290861757
ENSG00000183386	FHL3	250.0167079	0.231450812	0.470369588
ENSG00000183431	SF3A3	2811.44424	0.231337633	0.303457362
ENSG00000165379	LRFN5	11.45623061	0.231119498	0.882940491
ENSG00000181035	SLC25A42	304.1349039	0.231112388	0.574185807
ENSG00000203867	RBM20	15.92433284	0.231095426	0.839516168
ENSG00000243335	KCTD7	42.59520886	0.231037025	0.723509617
ENSG00000095380	NANS	2937.491551	0.230686483	0.300350761
ENSG00000213020	ZNF611	743.9086027	0.230624287	0.389833435

ENSG00000142207	URB1	800.3151359	0.230257988	0.359918424
ENSG00000236698	EIF1AXP1	28.23581197	0.230163563	0.77118404
ENSG00000144566	RAB5A	2691.097287	0.230137737	0.34769385
ENSG00000174446	SNAPC5	533.3624849	0.23013398	0.523911242
ENSG00000101247	NDUFAF5	143.3502974	0.229972983	0.571707682
ENSG00000109107	ALDOC	357.4817957	0.229844252	0.853552848
ENSG00000213190	MLLT11	65.6683462	0.229840623	0.698719173
ENSG00000182685	BRICD5	78.52256271	0.229797383	0.728893094
ENSG00000224817	AC010789.1	165.5913163	0.229686066	0.588003784
ENSG00000135775	COG2	524.9239796	0.22958523	0.419275547
ENSG00000099804	CDC34	2197.413801	0.229482059	0.342506812
ENSG00000250258	AC008496.2	4.091324	0.2293935	0.9373496
ENSG00000159176	CSRP1	34329.64	0.229239895	0.444127456
ENSG00000198522	GPN1	920.0743164	0.22908159	0.339176295
ENSG00000163684	RPP14	355.923017	0.229024636	0.604560501
ENSG00000116667	C1orf21	5423.97768	0.228932924	0.419028047
ENSG00000100197	CYP2D6	3.220802	0.2289122	0.9444342
ENSG00000162377	COA7	2443.918826	0.228743156	0.4177168
ENSG00000141429	GALNT1	1624.547524	0.228596456	0.363624824
ENSG00000242828	AC068756.1	42.96055998	0.228584697	0.743792106
ENSG00000125901	MRPS26	1102.445569	0.228563417	0.331088317
ENSG00000249992	TMEM158	9.846573186	0.228517519	0.891580131
ENSG00000122299	ZC3H7A	1306.489944	0.228416798	0.459060306
ENSG00000256294	ZNF225	50.78328687	0.22789752	0.709501256

ENSG00000164880	INTS1	7240.343227	0.227762444	0.447170577
ENSG00000249855	EEF1A1P19	12.45395014	0.227363177	0.861006902
ENSG00000112592	TBP	628.8808945	0.227308526	0.411626405
ENSG00000213866	YBX1P10	8.102185259	0.22715157	0.879005825
ENSG00000230202	AL450405.1	170.0585558	0.226982704	0.525486027
ENSG00000115129	TP53I3	358.7866198	0.226652841	0.629772262
ENSG00000160051	IQCC	73.670762	0.226611257	0.712331946
ENSG00000204394	VARS	5918.492905	0.226577848	0.315443759
ENSG00000116539	ASH1L	2115.885275	0.226574094	0.505249066
ENSG00000254999	BRK1	3930.165066	0.226526042	0.261328998
ENSG00000163577	EIF5A2	30.08625321	0.226479556	0.767729861
ENSG00000166575	TMEM135	762.7864999	0.226311767	0.448896649
ENSG00000149573	MPZL2	188.4612194	0.226283118	0.714377096
ENSG00000163682	RPL9	33043.36724	0.226161888	0.294556209
ENSG00000144029	MRPS5	977.1309202	0.226118816	0.441530067
ENSG00000147316	MCPH1	758.8986374	0.225969209	0.522873106
ENSG00000164776	PHKG1	10.75331761	0.225742231	0.873102126
ENSG00000137764	MAP2K5	248.5517748	0.225664885	0.571205151
ENSG00000136950	ARPC5L	2491.187145	0.225550486	0.359655961
ENSG00000014216	CAPN1	13587.00451	0.225408668	0.41287114
ENSG00000166685	COG1	1682.747612	0.225401879	0.438556911
ENSG00000235552	RPL6P27	479.6882009	0.225260379	0.386632979
ENSG00000127314	RAP1B	19812.54061	0.225136332	0.356088748
ENSG00000103671	TRIP4	1738.043724	0.225118606	0.357734008

ENSG00000278311	GGNBP2	2437.816478	0.225093386	0.328082636
ENSG00000127948	POR	4624.058286	0.22507452	0.313751956
ENSG00000171827	ZNF570	296.2610978	0.224847581	0.581900088
ENSG00000204305	AGER	61.171262	0.224712477	0.748803686
ENSG00000010244	ZNF207	5699.326337	0.224649763	0.405682675
ENSG00000197329	PELI1	148.6394175	0.224490807	0.634029663
ENSG00000176393	RNPEP	2209.067901	0.224469428	0.368076523
ENSG00000056972	TRAF3IP2	1881.377566	0.22443802	0.352076154
ENSG00000233954	UQCRHL	291.2907671	0.224418301	0.537040441
ENSG00000131848	ZSCAN5A	84.65614233	0.224288769	0.753697868
ENSG00000106479	ZNF862	59.05560909	0.224026555	0.749512006
ENSG00000100150	DEPDC5	462.220262	0.223747382	0.410888693
ENSG00000163661	PTX3	4.601507899	0.223728949	0.922944653
ENSG00000154305	MIA3	3192.770914	0.223709072	0.521334663
ENSG00000161526	SAP30BP	3189.107108	0.223365465	0.280538374
ENSG00000167874	TMEM88	15.13021696	0.223359371	0.858795323
ENSG00000170881	RNF139	3252.804471	0.223303128	0.36431345
ENSG00000090621	PABPC4	7486.971753	0.22303145	0.307053009
ENSG00000182890	GLUD2	8.102004548	0.22287409	0.899337783
ENSG00000272690	LINC02018	6.518178229	0.22277147	0.908040271
ENSG00000163806	SPDYA	98.03058753	0.222658865	0.755112918
ENSG00000153560	UBP1	1256.741276	0.222573445	0.411504738
ENSG00000230317	LINC01284	98.55442833	0.222340243	0.791380969
ENSG00000136710	CCDC115	715.544108	0.222330965	0.364406308

ENSG00000171960	PPIH	386.7738753	0.222126514	0.419340345
ENSG00000119915	ELOVL3	24.01785604	0.222105506	0.827503317
ENSG00000100075	SLC25A1	4873.509571	0.222016832	0.458702698
ENSG00000278811	LINC00624	732.007924	0.221746413	0.429840719
ENSG00000280211	AC106886.4	8.889844891	0.221674934	0.873102126
ENSG00000116459	ATP5PB	5614.267486	0.221665109	0.321315964
ENSG00000204524	ZNF805	361.7508522	0.221644046	0.588386291
ENSG00000105176	URI1	2303.086747	0.221535799	0.382626144
ENSG00000162461	SLC25A34	11.43966205	0.221513091	0.867073795
ENSG00000155097	ATP6V1C1	2413.793607	0.221429543	0.382766064
ENSG00000145743	FBXL17	335.2425652	0.220924224	0.544187592
ENSG00000155111	CDK19	1056.280914	0.220866432	0.414853342
ENSG00000085644	ZNF213	173.0894502	0.220422306	0.642955294
ENSG00000137216	TMEM63B	2525.284196	0.220342833	0.425455848
ENSG00000183624	HMCES	1356.103248	0.220013453	0.39739957
ENSG00000265474	AC010761.4	8.578803016	0.219981996	0.88366046
ENSG00000159648	TEPP	19.74011396	0.219895308	0.853978867
ENSG00000162066	AMDHD2	683.8502315	0.219424325	0.47240661
ENSG00000104765	BNIP3L	3477.478889	0.219204634	0.36802183
ENSG00000249861	LGALS16	18369.28857	0.218767473	0.486798433
ENSG00000185651	UBE2L3	6404.5974	0.218710975	0.339565932
ENSG00000028310	BRD9	1793.754073	0.218573949	0.360589385
ENSG00000160410	SHKBP1	1411.86065	0.218566278	0.519457814
ENSG00000111913	RIPOR2	14515.86117	0.218428302	0.469200052

ENSG00000217094	PPIAP31	12.24759438	0.218052869	0.861065383
ENSG00000113141	IK	3754.494773	0.217778457	0.339686846
ENSG00000228486	C2orf92	22.68473033	0.217645655	0.839274027
ENSG00000170776	AKAP13	2814.971797	0.217599441	0.425870202
ENSG00000144048	DUSP11	886.7360042	0.217461359	0.389716129
ENSG00000075568	TMEM131	3392.693971	0.217362844	0.376699833
ENSG00000101350	KIF3B	1049.172789	0.217188144	0.370090402
ENSG00000271870	AC024060.2	6.848864305	0.217171348	0.92402841
ENSG00000188825	LINC00910	52.07168155	0.217039999	0.762671714
ENSG00000002016	RAD52	229.4559034	0.217027008	0.537706547
ENSG00000174738	NR1D2	573.895522	0.216931542	0.581809749
ENSG00000132604	TERF2	1527.097363	0.216849177	0.35662559
ENSG00000198162	MAN1A2	51632.20402	0.216817289	0.445172163
ENSG00000116406	EDEM3	2678.89551	0.21657609	0.469012843
ENSG00000132952	USPL1	531.9982665	0.216455046	0.472016398
ENSG00000189227	C15orf61	39.79547531	0.216391643	0.750519021
ENSG00000168619	ADAM18	5.876640681	0.216361632	0.904084845
ENSG00000183479	TREX2	6.657314585	0.216192388	0.927361025
ENSG00000151445	VIPAS39	974.013851	0.215966798	0.4079053
ENSG00000125386	FAM193A	688.0800057	0.215555463	0.490978599
ENSG00000260747	AC022968.1	27.93470286	0.215499359	0.786757798
ENSG00000230863	AL137803.1	32.43515881	0.21549337	0.800622385
ENSG00000284428	AC092329.4	81.07721739	0.215429224	0.767513966
ENSG00000264107	AC138207.2	3.771217	0.2152827	0.9338228

ENSG00000157999	ANKRD61	17.61161674	0.215259908	0.842934646
ENSG00000145912	NHP2	1394.358405	0.215062418	0.367890085
ENSG00000158828	PINK1	320.7705965	0.215012183	0.579145938
ENSG00000170027	YWHAG	7245.481888	0.214604939	0.401179469
ENSG00000144488	ESPNL	5.90580169	0.214474645	0.923115334
ENSG00000163875	MEAF6	870.1563891	0.21439072	0.459426716
ENSG00000274717	AL049757.1	7.420728985	0.214288821	0.908040271
ENSG00000183828	NUDT14	187.7580883	0.21396482	0.586145128
ENSG00000121897	LIAS	447.8955171	0.213945786	0.508014451
ENSG00000010327	STAB1	10.84693665	0.213805817	0.873102126
ENSG00000154429	CCSAP	3886.978673	0.213782647	0.449183958
ENSG00000177479	ARIH2	4779.498313	0.213663866	0.420691498
ENSG00000008283	CYB561	1323.098027	0.213557618	0.507146283
ENSG00000013441	CLK1	2024.702392	0.213516789	0.5424964
ENSG00000111652	COPS7A	2180.471488	0.213420848	0.408143185
ENSG00000122203	KIAA1191	1709.394748	0.213363132	0.352013642
ENSG00000100211	CBY1	189.2413987	0.213231432	0.620234108
ENSG00000137720	C11orf1	336.2163522	0.213153749	0.555218288
ENSG00000113734	BNIP1	481.3294568	0.213111003	0.54287096
ENSG00000229056	HECW2-AS1	3.795796	0.2130573	0.9344854
ENSG00000099875	MKNK2	13621.75035	0.212830942	0.632512655
ENSG00000163811	WDR43	5803.335592	0.212809803	0.518755994
ENSG00000177570	SAMD12	5.307372273	0.212712628	0.915069372
ENSG00000112531	QKI	6619.399122	0.212475691	0.518504734

ENSG00000205238	SPDYE2	11.40331343	0.212436124	0.891906028
ENSG00000163170	BOLA3	139.7447695	0.212169408	0.60785032
ENSG00000157764	BRAF	3204.132597	0.211845512	0.370090402
ENSG00000137171	KLC4	330.1979968	0.211733116	0.494087933
ENSG00000257191	AC090709.1	10.19966443	0.211136277	0.884832704
ENSG00000120925	RNF170	325.6834415	0.21109472	0.635745419
ENSG00000087152	ATXN7L3	4208.42816	0.211056348	0.372936485
ENSG00000090316	MAEA	2903.764137	0.210883049	0.391316318
ENSG00000226055	PAICSP1	7.509326819	0.21087571	0.929692911
ENSG00000247121	AC009126.1	8.655978786	0.210750398	0.906637352
ENSG00000148926	ADM	7127.405287	0.210689312	0.566904494
ENSG00000107651	SEC23IP	1745.493863	0.210539625	0.358009712
ENSG00000174106	LEMD3	736.8584356	0.210356709	0.492253013
ENSG00000196372	ASB13	131.6344192	0.210355272	0.636295117
ENSG00000168958	MFF	1335.988431	0.210307351	0.448213688
ENSG00000176222	ZNF404	161.0903026	0.210210562	0.658028228
ENSG00000144648	ACKR2	3441.564519	0.210125638	0.393074764
ENSG00000163848	ZNF148	803.0799959	0.209687114	0.450720404
ENSG00000112473	SLC39A7	23009.87293	0.209469016	0.416482887
ENSG00000109118	PHF12	1242.861728	0.209296631	0.459833624
ENSG00000166598	HSP90B1	69206.70402	0.20919934	0.312806888
ENSG00000137409	MTCH1	4710.295542	0.208973867	0.335441441
ENSG00000185567	AHNAK2	29.97710217	0.208853929	0.819256335
ENSG00000244151	AC010973.2	20.9549043	0.208476991	0.860471541

ENSG00000013392	RWDD2A	318.8687103	0.208402596	0.566988631
ENSG00000171490	RSL1D1	10547.65032	0.208267656	0.337361358
ENSG00000196531	NACA	18294.17954	0.208194702	0.388307558
ENSG00000173436	MICOS10	23.95016613	0.208137743	0.828167535
ENSG00000272140	AC022400.4	18.36500949	0.208130107	0.859702538
ENSG00000133318	RTN3	9944.717474	0.208107904	0.302473343
ENSG00000139323	POC1B	372.1516539	0.207967321	0.529292233
ENSG00000134278	SPIRE1	75.94380643	0.207934277	0.734574401
ENSG00000135929	CYP27A1	8.132676086	0.207688349	0.905905321
ENSG00000148660	CAMK2G	3431.832604	0.207486919	0.409363637
ENSG00000162639	HENMT1	60.50830601	0.207262934	0.749650759
ENSG00000238363	SNORA13	6.641555617	0.206856189	0.909564839
ENSG00000220785	MTMR9LP	5.366070793	0.206732742	0.921038645
ENSG00000063587	ZNF275	153.9778057	0.2065665	0.679015516
ENSG00000167645	YIF1B	2403.90236	0.206508079	0.531165157
ENSG00000018408	WWTR1	411.4100324	0.206483119	0.578697094
ENSG00000164292	RHOBTB3	1892.024719	0.206273463	0.414221801
ENSG00000120942	UBIAD1	1100.514928	0.205915937	0.480226484
ENSG00000111271	ACAD10	535.812529	0.205716239	0.626337389
ENSG00000189079	ARID2	1076.902882	0.205651924	0.449687687
ENSG00000115268	RPS15	13091.60996	0.205610687	0.383008153
ENSG00000136240	KDELR2	13698.49873	0.205524602	0.330410403
ENSG00000113575	PPP2CA	7964.773592	0.204747939	0.419963129
ENSG00000115661	STK16	642.7587774	0.204518901	0.512701258

ENSG00000139579	NABP2	273.4812453	0.204412222	0.527683419
ENSG00000142185	TRPM2	99.44054856	0.204210924	0.67944038
ENSG00000174529	TMEM81	100.6435845	0.204080397	0.67944038
ENSG00000237978	KCNMB2-AS1	53.5525302	0.203747194	0.795279959
ENSG00000143771	CNIH4	1034.074516	0.203647834	0.538717249
ENSG00000261094	AC007066.2	16.51971336	0.203630077	0.895604705
ENSG00000073905	VDAC1P1	8.998737317	0.203536682	0.892689834
ENSG00000166266	CUL5	693.8544441	0.203457605	0.476262184
ENSG00000178464	RPL10P16	567.6725546	0.20344586	0.453946929
ENSG00000204366	ZBTB12	29.52354661	0.203400715	0.807408296
ENSG00000171132	PRKCE	468.5394651	0.203394414	0.451365583
ENSG00000075292	ZNF638	3679.746431	0.20338574	0.407677605
ENSG00000148300	REXO4	1443.599739	0.203322799	0.525672697
ENSG00000099256	PRTFDC1	4.746677662	0.203222322	0.918359657
ENSG00000006652	IFRD1	8283.437607	0.203049232	0.386824805
ENSG00000115947	ORC4	1242.987233	0.202862507	0.459190628
ENSG00000259153	AC004816.1	38.85507326	0.202614614	0.76735588
ENSG00000120071	KANSL1	1294.048614	0.20229811	0.455641215
ENSG00000153574	RPIA	1787.304981	0.202240453	0.508484623
ENSG00000145494	NDUFS6	1084.72173	0.202237515	0.523304739
ENSG00000238243	OR2W3	47.17283031	0.202214956	0.750584218
ENSG00000260032	NORAD	6759.015909	0.202137172	0.508262545
ENSG00000120137	PANK3	3364.030336	0.201917478	0.626337389
ENSG00000110429	FBXO3	1182.371564	0.201832714	0.518098764

ENSG00000183696	UPP1	4854.227457	0.201823837	0.583733437
ENSG00000239415	AP001469.3	12.15442466	0.201726879	0.877966764
ENSG00000034713	GABARAPL2	1726.760236	0.201578532	0.372964463
ENSG00000100084	HIRA	219.133276	0.201546611	0.635745419
ENSG00000127423	AUNIP	594.3190311	0.201394905	0.558922503
ENSG00000236200	KDM4A-AS1	16.99272515	0.201376067	0.863437268
ENSG00000175931	UBE2O	2559.254452	0.201310016	0.489984937
ENSG00000103381	CPPED1	4024.257789	0.201250631	0.591173215
ENSG00000215421	ZNF407	267.021451	0.201165731	0.618280231
ENSG00000213516	RBMXL1	1138.167686	0.201109278	0.391591436
ENSG00000149781	FERMT3	23.24250326	0.201046926	0.880156569
ENSG00000169439	SDC2	6.298218319	0.201020992	0.916500747
ENSG00000165914	TTC7B	11206.21272	0.200958436	0.468957089
ENSG00000146457	WTAP	3356.969425	0.200923615	0.435980025
ENSG00000165264	NDUFB6	287.8940359	0.200691408	0.571251081
ENSG00000119013	NDUFB3	1103.566677	0.200611499	0.464635453
ENSG00000159216	RUNX1	836.3371529	0.200557869	0.510060629
ENSG00000228794	LINC01128	557.0019163	0.200481552	0.532483451
ENSG00000105656	ELL	2917.846896	0.200452883	0.442450078
ENSG00000272391	POM121C	2987.90814	0.200269057	0.39259821
ENSG00000131069	ACSS2	5232.463513	0.200195808	0.87005064
ENSG00000172785	CBWD1	1296.392594	0.200027753	0.441638257
ENSG00000144524	COPS7B	1675.041294	0.199973186	0.426802217
ENSG00000105127	AKAP8	2678.322301	0.199846734	0.497449957

ENSG00000130338	TULP4	1042.544369	0.199664823	0.610544173
ENSG00000198001	IRAK4	918.7823125	0.199624651	0.452318153
ENSG00000124224	PPP4R1L	111.5295006	0.199478137	0.709627887
ENSG00000168803	ADAL	60.54915697	0.199452901	0.75860364
ENSG00000163946	TASOR	1166.907735	0.199249211	0.429122628
ENSG00000047634	SCML1	226.048116	0.199186645	0.743609534
ENSG00000233695	GAS6-AS1	20.57770429	0.199084483	0.846952903
ENSG00000174695	TMEM167A	5300.721933	0.198954795	0.358009712
ENSG00000085117	CD82	18.67611849	0.198899326	0.853378958
ENSG00000100325	ASCC2	2469.780469	0.198878554	0.383090602
ENSG00000147475	ERLIN2	1685.850005	0.198851991	0.560686473
ENSG00000116032	GRIN3B	11.50066217	0.198610733	0.874689818
ENSG00000101158	NELFCD	4606.974774	0.198484003	0.366126145
ENSG00000246582	AC100861.1	6.965993	0.1982926	0.9414493
ENSG00000198142	SOWAHC	341.109473	0.198278969	0.591252079
ENSG00000103091	WDR59	3305.206796	0.198277448	0.377104721
ENSG00000111432	FZD10	1808.784268	0.198205313	0.708054433
ENSG00000225449	RAB6C-AS1	5.796122181	0.19798064	0.915771161
ENSG00000104129	DNAJC17	252.3147508	0.197951524	0.620025362
ENSG00000247498	GPRC5D-AS1	104.0966006	0.197930204	0.682058459
ENSG00000118246	FASTKD2	1459.440184	0.197893801	0.426021786
ENSG00000125863	MKKS	201.4401819	0.197856946	0.59088576
ENSG00000144649	GASK1A	70.41169157	0.197790505	0.754582759
ENSG00000197535	MYO5A	774.5942484	0.197755162	0.512159485

ENSG00000213683	AC002056.1	10.1038363	0.197753534	0.886206685
ENSG00000102962	CCL22	14.60898514	0.19761554	0.900304768
ENSG00000136856	SLC2A8	174.8076969	0.197585249	0.642546889
ENSG00000101670	LIPG	13516.44838	0.197427152	0.411626405
ENSG00000246203	AL353807.3	7.712487456	0.197422196	0.897893814
ENSG00000264522	OTUD7B	515.2922095	0.19740041	0.502944099
ENSG00000174483	BBS1	4.740657	0.1973382	0.937298
ENSG00000141968	VAV1	45.05708075	0.197256908	0.758744438
ENSG00000244038	DDOST	21427.46446	0.197233688	0.343900236
ENSG00000197375	SLC22A5	599.8170795	0.197203709	0.634246633
ENSG00000153037	SRP19	423.0091179	0.19717505	0.610037692
ENSG00000258890	CEP95	887.053316	0.197116316	0.496026841
ENSG00000100324	TAB1	712.4195894	0.197049891	0.429476835
ENSG00000248515	AC024230.1	8.989354544	0.196829116	0.916226164
ENSG00000172247	C1QTNF4	8.568785975	0.196449881	0.911605596
ENSG00000180822	PSMG4	238.0339305	0.196382151	0.590146405
ENSG00000146425	DYNLT1	1517.154185	0.1962368	0.41243169
ENSG00000120662	MTRF1	317.6671028	0.196230491	0.523304739
ENSG00000105254	TBCB	1082.885522	0.19621873	0.457029879
ENSG00000203666	EFCAB2	331.7148206	0.196104888	0.662870448
ENSG00000088833	NSFL1C	5130.715707	0.195832003	0.374010076
ENSG00000116212	LRRC42	941.3678214	0.195670238	0.514536453
ENSG00000196290	NIF3L1	1738.141897	0.195460947	0.439656157
ENSG00000112701	SENP6	2755.483	0.195407605	0.389041773

ENSG00000145982	FARS2	343.1670208	0.19538545	0.554811987
ENSG00000119682	AREL1	1656.967582	0.195306201	0.50942677
ENSG00000102974	CTCF	2929.392082	0.195231407	0.526228422
ENSG00000147439	BIN3	434.0494014	0.195154091	0.559520786
ENSG00000197363	ZNF517	74.85856665	0.19480327	0.712331946
ENSG00000105879	CBLL1	563.5476101	0.194489706	0.461081816
ENSG00000225190	PLEKHM1	530.6539026	0.194414404	0.535597232
ENSG00000125249	RAP2A	971.236254	0.194356615	0.466632366
ENSG00000164574	GALNT10	261.0051438	0.194312102	0.636968132
ENSG00000126226	PCID2	1386.901459	0.194293324	0.468502451
ENSG00000146282	RARS2	1986.102243	0.194053063	0.417854569
ENSG00000110497	AMBRA1	1471.981039	0.193976087	0.42765629
ENSG00000160877	NACC1	5018.756393	0.193757034	0.505843142
ENSG00000213462	ERV3-1	918.0625298	0.193750005	0.512683689
ENSG00000186301	MST1P2	35.67323697	0.193448492	0.804473812
ENSG00000163938	GNL3	10783.14322	0.193231674	0.528347974
ENSG00000106392	C1GALT1	4346.840289	0.192957128	0.572584158
ENSG00000103522	IL21R	21.85948709	0.192661072	0.85259444
ENSG00000130701	RBBP8NL	299.9211853	0.192539729	0.690195296
ENSG00000184517	ZFP1	452.1470104	0.192530345	0.543015747
ENSG00000215712	TMEM242	529.9908976	0.192432377	0.460899352
ENSG00000159592	GPBP1L1	5020.44928	0.192403318	0.459190628
ENSG00000204344	STK19	560.5192932	0.192159948	0.5423293
ENSG00000060339	CCAR1	4558.763989	0.192146341	0.413352165

ENSG00000269815	AC010463.3	5.598194439	0.191957759	0.917048056
ENSG00000286808	AC092338.3	11.06829433	0.191780861	0.898834773
ENSG00000183666	GUSBP1	299.0431467	0.191651976	0.694165549
ENSG00000111897	SERINC1	7009.636213	0.191633625	0.517210152
ENSG00000131508	UBE2D2	4179.101505	0.191467608	0.429164632
ENSG00000131459	GFPT2	793.8686374	0.191283476	0.721618641
ENSG00000172409	CLP1	1527.096742	0.191258469	0.628401869
ENSG00000104885	DOT1L	3787.515222	0.190907004	0.63108592
ENSG00000179178	TMEM125	606.896271	0.190889796	0.45657155
ENSG00000155621	C9orf85	283.2171466	0.190887164	0.567581365
ENSG00000250479	CHCHD10	557.633662	0.19055913	0.698348114
ENSG00000099625	CBARP	59.53629149	0.190270776	0.75908948
ENSG00000163832	ELP6	563.1067748	0.19010315	0.558297433
ENSG00000111639	MRPL51	3065.234107	0.190096997	0.484774887
ENSG00000133606	MKRN1	6161.156678	0.190022807	0.524956679
ENSG00000013523	ANGEL1	1304.384444	0.189783408	0.538644861
ENSG00000163900	TMEM41A	1229.376562	0.189714739	0.559631566
ENSG00000186642	PDE2A	281.1085525	0.189641341	0.780742187
ENSG00000127022	CANX	51198.09083	0.189575159	0.41449697
ENSG00000116213	WRAP73	733.9589474	0.189457419	0.569128849
ENSG00000260314	MRC1	8.66796875	0.189356579	0.924193589
ENSG00000134533	RERG	290.3090571	0.18935059	0.552647323
ENSG00000076924	XAB2	3087.739118	0.189315835	0.495322247
ENSG00000003756	RBM5	2057.668712	0.189313995	0.54630747

ENSG00000104221	BRF2	288.1218849	0.188679768	0.56189191
ENSG00000189343	RPS2P46	616.7667323	0.188517881	0.556901561
ENSG00000175582	RAB6A	7911.650754	0.188450958	0.34958547
ENSG00000270533	CR382285.1	7.360505077	0.188169396	0.921609461
ENSG00000103591	AAGAB	2395.775911	0.188023925	0.40630199
ENSG00000118680	MYL12B	17601.645	0.18787315	0.363387058
ENSG00000168818	STX18	1177.370206	0.187744407	0.48214268
ENSG00000164751	PEX2	471.6785145	0.187693805	0.571655454
ENSG00000169249	ZRSR2	382.5257847	0.187500639	0.612568436
ENSG00000180901	KCTD2	2145.455208	0.187480071	0.4402276
ENSG00000139163	ETNK1	1441.636056	0.187274824	0.512436748
ENSG00000163482	STK36	125.3104423	0.18715678	0.695051839
ENSG00000141543	EIF4A3	3553.046124	0.186965416	0.532044609
ENSG00000104904	OAZ1	15611.73672	0.186823714	0.423560001
ENSG00000182512	GLRX5	1771.842377	0.186769408	0.40630199
ENSG00000138107	ACTR1A	5678.286569	0.186753469	0.420915035
ENSG00000163634	THOC7	2171.917855	0.18669208	0.467993152
ENSG00000107863	ARHGAP21	2826.328057	0.186607644	0.499065278
ENSG00000171148	TADA3	518.6623677	0.186581494	0.512807821
ENSG00000185404	SP140L	2061.452516	0.186567621	0.533165417
ENSG00000126767	ELK1	3686.019299	0.186530952	0.410731976
ENSG00000183569	SERHL2	48.76100579	0.186457368	0.768875132
ENSG00000173418	NAA20	1015.721199	0.186345493	0.469206214
ENSG00000100823	APEX1	2180.683647	0.186219046	0.452318153

ENSG00000089597	GANAB	35911.30851	0.186189882	0.500126059
ENSG00000105516	DBP	70.20582968	0.18612624	0.802202049
ENSG00000130518	IQCN	20.50226531	0.185919258	0.876767993
ENSG00000047365	ARAP2	366.4373189	0.185785435	0.597998936
ENSG00000182551	ADI1	3613.114985	0.185569152	0.501035103
ENSG00000063177	RPL18	19328.10575	0.185444813	0.396403914
ENSG00000113648	H2AFY	8213.473205	0.185329548	0.4079053
ENSG00000187626	ZKSCAN4	124.0598099	0.185019188	0.677369059
ENSG00000140829	DHX38	3357.834786	0.184903084	0.459190628
ENSG00000186300	ZNF555	98.90680065	0.184779048	0.714602181
ENSG00000100056	ESS2	620.196595	0.184670719	0.634438984
ENSG00000203761	MSTO2P	159.3837056	0.184619996	0.731681411
ENSG00000235670	RPL21P40	4.992943989	0.184498601	0.925928729
ENSG00000174243	DDX23	6331.122968	0.184462703	0.478471417
ENSG00000244675	AC108676.1	563.508957	0.184388559	0.495442913
ENSG00000131067	GGT7	765.4280328	0.184258914	0.511107047
ENSG00000175311	ANKS4B	9.606313587	0.184220913	0.905141154
ENSG00000156831	NSMCE2	752.8630756	0.184110601	0.480545439
ENSG00000140307	GTF2A2	1164.573438	0.18407927	0.509510068
ENSG00000225855	RUSC1-AS1	185.7151921	0.184044322	0.735561638
ENSG00000135870	RC3H1	1173.053742	0.183962836	0.585869967
ENSG00000160613	PCSK7	1870.819219	0.183928857	0.486532466
ENSG00000110375	UPK2	690.3552388	0.183854329	0.686006064
ENSG00000125898	FAM110A	568.6466336	0.183722444	0.700281126

ENSG00000133027	PEMT	182.5186244	0.183493573	0.622303312
ENSG00000043355	ZIC2	5.827503193	0.183449669	0.916637284
ENSG00000181472	ZBTB2	1134.127192	0.183448035	0.589487871
ENSG00000149532	CPSF7	3340.860915	0.182976398	0.420270371
ENSG00000175787	ZNF169	27.66712966	0.182909829	0.83765002
ENSG00000265491	RNF115	565.3841232	0.182886345	0.549208144
ENSG00000170425	ADORA2B	86.14620405	0.182877482	0.744649677
ENSG00000240356	RPL23AP7	246.6323642	0.182767917	0.641138983
ENSG00000226067	LINC00623	371.7820725	0.182702803	0.707122816
ENSG00000168056	LTBP3	2038.253017	0.182610081	0.517517016
ENSG00000214193	SH3D21	2007.284082	0.182506713	0.653595345
ENSG00000003393	ALS2	622.5227911	0.182464177	0.551742559
ENSG00000226964	RHEBP2	9.932893475	0.182173803	0.900584564
ENSG00000187792	ZNF70	71.24092214	0.182091757	0.74685597
ENSG00000129292	PHF20L1	622.1433704	0.181831042	0.590378481
ENSG00000111785	RIC8B	108.5084768	0.181800555	0.695745055
ENSG00000137073	UBAP2	6462.506746	0.181600189	0.479873823
ENSG00000180921	FAM83H	3505.646609	0.181522643	0.532723717
ENSG00000279207	AC015813.6	169.9341673	0.181488907	0.66201068
ENSG00000142330	CAPN10	657.9075604	0.181304233	0.605298879
ENSG00000138593	SECISBP2L	5942.83802	0.181271194	0.66088297
ENSG00000134375	TIMM17A	6431.040476	0.181222501	0.559520786
ENSG00000165861	ZFYVE1	1167.570788	0.181098746	0.592861516
ENSG00000149782	PLCB3	3351.072451	0.181088537	0.610894864

ENSG00000113643	RARS	4675.38941	0.18104814	0.402067847
ENSG00000230373	GOLGA6L5P	5.124578056	0.181029257	0.927666056
ENSG00000023041	ZDHHC6	1130.946099	0.180988247	0.622837329
ENSG00000161202	DVL3	34020.60266	0.180947824	0.543642204
ENSG00000108829	LRRC59	17841.05533	0.180736435	0.502023859
ENSG00000068745	IP6K2	2234.898552	0.180643538	0.533184805
ENSG00000169895	SYAP1	3571.739938	0.180612482	0.439832728
ENSG00000237638	LINC02245	501.1300946	0.180607259	0.600311534
ENSG00000236552	RPL13AP5	431.0254875	0.180605748	0.518416793
ENSG00000213445	SIPA1	452.6066104	0.180570529	0.596599011
ENSG00000083168	KAT6A	1403.950914	0.180341456	0.620493368
ENSG00000154174	TOMM70	2195.901432	0.18032676	0.462333221
ENSG00000126653	NSRP1	1346.281811	0.180051633	0.502346676
ENSG00000132024	CC2D1A	2391.071171	0.180016395	0.541122646
ENSG00000106723	SPIN1	4624.087353	0.179859173	0.455129302
ENSG00000088986	DYNLL1	3619.977111	0.179756233	0.659296914
ENSG00000137656	BUD13	710.1241741	0.179744661	0.493156139
ENSG00000183527	PSMG1	1608.885677	0.179670406	0.481643658
ENSG00000128283	CDC42EP1	4694.436558	0.179408511	0.588400952
ENSG00000198642	KLHL9	239.6184403	0.179152533	0.695051839
ENSG00000148950	IMMP1L	135.7035606	0.179099202	0.685262262
ENSG00000214113	LYRM4	584.0317788	0.178840387	0.576378244
ENSG00000130726	TRIM28	17819.80623	0.178838457	0.472784299
ENSG00000138442	WDR12	2368.75637	0.178354524	0.549029203

ENSG00000100058	CRYBB2P1	292.9600543	0.178007163	0.698361858
ENSG00000155463	OXA1L	3165.92329	0.177935435	0.553181137
ENSG00000156502	SUPV3L1	1467.52981	0.177895641	0.585314927
ENSG00000101945	SUV39H1	1057.923435	0.177808741	0.647102042
ENSG00000167103	PIP5KL1	178.5548763	0.177786347	0.717839764
ENSG00000140988	RPS2	88603.45474	0.177516939	0.478095774
ENSG00000180667	YOD1	1206.089043	0.177296006	0.557893196
ENSG00000164619	BMPER	104.5308567	0.177232765	0.730629881
ENSG00000161021	MAML1	1581.534452	0.177149466	0.486234855
ENSG00000064886	CHI3L2	53.72146693	0.176763575	0.798424473
ENSG00000260774	AC021087.3	6.689580069	0.176715129	0.916637284
ENSG00000047579	DTNBP1	429.139917	0.176650017	0.648220704
ENSG00000168672	LRATD2	510.5301422	0.176460634	0.580030124
ENSG00000213889	PPM1N	986.7385299	0.176354999	0.59102679
ENSG00000198205	ZXDA	39.43185439	0.176335019	0.822229445
ENSG00000156467	UQCRB	2570.743059	0.175967579	0.49949626
ENSG00000214654	B3GNT10	29.3935926	0.17585228	0.828157912
ENSG00000160685	ZBTB7B	3805.850167	0.175751378	0.594815182
ENSG00000213047	DENND1B	197.9671903	0.175731245	0.661408315
ENSG00000106261	ZKSCAN1	1136.079644	0.175659329	0.499065278
ENSG00000204644	ZFP57	258.9457381	0.175597678	0.704368273
ENSG00000149311	ATM	299.2531737	0.175590146	0.687786272
ENSG00000146701	MDH2	7187.519592	0.175118106	0.39727313
ENSG00000177311	ZBTB38	1566.131789	0.174990007	0.512719866

ENSG00000155508	CNOT8	748.8455501	0.174980425	0.529756374
ENSG00000174628	IQCK	15.86616915	0.17491995	0.869453819
ENSG00000172053	QARS	8160.697829	0.17476435	0.478228829
ENSG00000286977	Z83745.1	8.253072167	0.174678655	0.911502329
ENSG00000143498	TAF1A	115.7984596	0.17388326	0.725577474
ENSG00000197771	MCMBP	3308.068962	0.17376033	0.420332348
ENSG00000075336	TIMM21	759.4305489	0.173327602	0.554754241
ENSG00000113742	CPEB4	9885.34738	0.17329141	0.611503474
ENSG00000249464	LINC01091	66.17907151	0.172878921	0.813669283
ENSG00000051009	FAM160A2	1163.185994	0.172871269	0.5881809
ENSG00000068697	LAPTM4A	7152.332701	0.172839083	0.514175163
ENSG00000106615	RHEB	5446.646878	0.172644008	0.442185108
ENSG00000143393	PI4KB	3356.447807	0.172620802	0.572169344
ENSG00000272145	NFYC-AS1	7.886504095	0.172377821	0.911981952
ENSG00000115942	ORC2	1485.077777	0.172147434	0.502035285
ENSG00000175175	PPM1E	5.085676	0.1720575	0.9334008
ENSG00000124275	MTRR	753.8645377	0.171826388	0.511363964
ENSG00000104859	CLASRP	1299.168378	0.171730408	0.490565314
ENSG00000148459	PDSS1	132.5417915	0.171465632	0.695650154
ENSG00000071894	CPSF1	2441.482499	0.171446573	0.535391183
ENSG00000166225	FRS2	776.2719597	0.171425113	0.613913846
ENSG00000011260	UTP18	4358.267423	0.171326757	0.524548691
ENSG00000188566	NDOR1	794.3157512	0.17132203	0.488831313
ENSG00000058729	RIOK2	938.9204755	0.171192827	0.568215092

ENSG00000261824	LINC00662	73.42763647	0.171175032	0.755887287
ENSG00000234160	AL513165.1	54.99685744	0.171151864	0.792927496
ENSG00000178950	GAK	3826.440941	0.171064561	0.518407927
ENSG00000172426	RSPH9	17.79349024	0.170804084	0.892042963
ENSG00000086598	TMED2	16446.07471	0.170640308	0.530975537
ENSG00000185267	CDNF	16.42342734	0.170592877	0.879979196
ENSG00000119599	DCAF4	1332.588218	0.170223969	0.558238901
ENSG00000175029	CTBP2	1876.943404	0.170152057	0.53310271
ENSG00000196199	MPHOSPH8	2120.843835	0.169946009	0.59036842
ENSG00000125818	PSMF1	4215.510754	0.16986751	0.448090745
ENSG00000006007	GDE1	5542.937306	0.169838804	0.451365583
ENSG00000187621	TCL6	11499.02637	0.169535801	0.743636625
ENSG00000175595	ERCC4	229.2757661	0.169435498	0.636875568
ENSG00000182831	C16orf72	3798.478549	0.169278281	0.624346445
ENSG00000142168	SOD1	4202.290823	0.169234267	0.501035103
ENSG00000260266	PPIAP46	263.8016154	0.169036159	0.732628585
ENSG00000164626	KCNK5	707.8922756	0.168435578	0.608183115
ENSG00000168071	CCDC88B	141.4199917	0.168431099	0.745713598
ENSG00000182208	MOB2	2330.329988	0.168259696	0.594420664
ENSG00000112996	MRPS30	613.5948935	0.167792388	0.56852894
ENSG00000269958	AL049840.5	167.515816	0.167662026	0.724256606
ENSG00000092203	TOX4	4649.74624	0.167530273	0.498566298
ENSG00000184154	LRTOMT	63.63880596	0.167528009	0.818979473
ENSG00000141294	LRRC46	11.81065558	0.167391884	0.892714527

ENSG00000229589	ACVR2B-AS1	17.95606536	0.166685975	0.871286851
ENSG00000114942	EEF1B2	13205.26476	0.166328256	0.432071088
ENSG00000104983	CCDC61	308.5666616	0.166257594	0.704686423
ENSG00000077522	ACTN2	10.00672257	0.166111424	0.920093423
ENSG00000243829	AC011495.1	8.352095128	0.165783866	0.926749449
ENSG00000140006	WDR89	835.2217785	0.165752847	0.661133727
ENSG00000123562	MORF4L2	14311.30851	0.165637767	0.469590923
ENSG00000123444	KBTBD4	113.4519033	0.165516039	0.697936605
ENSG00000180739	S1PR5	3.23412	0.1654074	0.9569832
ENSG00000272068	AL365181.2	32.07502692	0.165371862	0.853506815
ENSG00000127507	ADGRE2	113.9672715	0.165334674	0.706547133
ENSG00000233175	AC008105.1	5.194126	0.1653007	0.9426476
ENSG00000251474	RPL32P3	80.01533227	0.165010653	0.740746814
ENSG00000232150	ST13P4	11.46691318	0.164976516	0.910043893
ENSG00000087365	SF3B2	13558.36426	0.164737231	0.439526869
ENSG00000068120	COASY	6064.343606	0.164551335	0.425016237
ENSG00000158480	SPATA2	1138.091607	0.164447821	0.63066659
ENSG00000197343	ZNF655	1930.947886	0.164427958	0.65668724
ENSG00000162928	PEX13	1884.988805	0.164341598	0.491589851
ENSG00000132823	OSER1	3879.694975	0.16432624	0.554709919
ENSG00000287910	AC104024.4	9.394084347	0.164022579	0.916208149
ENSG00000182263	FIGN	1739.600949	0.163987504	0.56546763
ENSG00000081791	DELE1	806.5373051	0.163736448	0.61453889
ENSG00000260101	AC008074.2	7.911712	0.1636997	0.9335326

ENSG00000149679	CABLES2	386.2226945	0.163553419	0.68162475
ENSG00000137869	CYP19A1	91167.55392	0.163535606	0.506548117
ENSG00000090097	PCBP4	82.49350834	0.163398325	0.750897735
ENSG00000164651	SP8	6.267486	0.1633207	0.9399105
ENSG00000178163	ZNF518B	1439.303079	0.16310813	0.510047579
ENSG00000124688	MAD2L1BP	496.270401	0.162849987	0.672563414
ENSG00000100092	SH3BP1	418.2025657	0.162765068	0.641638079
ENSG00000136504	KAT7	2917.132607	0.1627068	0.502473232
ENSG00000099956	SMARCB1	2981.424855	0.162692167	0.477891844
ENSG00000170633	RNF34	1154.748189	0.162630377	0.574516708
ENSG00000286708	AP003783.1	7.33928	0.1625594	0.9352547
ENSG00000213442	RPL18AP3	181.9703306	0.162212121	0.702592261
ENSG00000197635	DPP4	3452.828936	0.161978723	0.479765508
ENSG00000189180	ZNF33A	634.1935919	0.161923254	0.552034634
ENSG00000122026	RPL21	21754.56235	0.161722773	0.479873823
ENSG00000138674	SEC31A	16189.85205	0.161715261	0.56002962
ENSG00000214975	PPIAP29	10.81216445	0.161710327	0.905529693
ENSG00000160117	ANKLE1	24.46671456	0.161660175	0.869229265
ENSG00000134152	KATNBL1	2585.015095	0.161499906	0.608202105
ENSG00000095397	WHRN	79.40729312	0.1614951	0.767066076
ENSG00000139722	VPS37B	2683.457406	0.161485349	0.556173103
ENSG00000148358	GPR107	9447.803455	0.16142143	0.653214213
ENSG00000140943	MBTPS1	3290.241518	0.161370038	0.622303312
ENSG00000114771	AADAC	31.67042647	0.16122179	0.869758904

ENSG00000055130	CUL1	6250.429832	0.16117234	0.590378481
ENSG00000142528	ZNF473	485.9044753	0.161171086	0.627220585
ENSG00000100201	DDX17	11595.25323	0.161087093	0.4929643
ENSG00000188613	NANOS1	74.54338999	0.160956778	0.82812558
ENSG00000179912	R3HDM2	474.0202595	0.160933921	0.733179021
ENSG00000185624	P4HB	58741.42544	0.160706303	0.527487304
ENSG00000260711	AL121839.2	11.01045931	0.160698295	0.904534394
ENSG00000148842	CNNM2	4525.762698	0.16057254	0.680397377
ENSG00000224081	SLC44A3-AS1	13.30846405	0.160471955	0.899802728
ENSG00000151553	FAM160B1	1845.058789	0.160104519	0.68162475
ENSG00000163933	RFT1	551.3373672	0.160040374	0.617249816
ENSG00000172728	FUT10	515.3558114	0.160028696	0.664896471
ENSG00000130810	PPAN	83.14046689	0.159962845	0.838945656
ENSG00000147133	TAF1	1287.818157	0.159678584	0.614020896
ENSG00000130764	LRRC47	1365.404433	0.159440399	0.516484734
ENSG00000125484	GTF3C4	1069.524574	0.159306896	0.682891873
ENSG00000029364	SLC39A9	3476.108279	0.159259339	0.516010875
ENSG00000183671	GPR1	506.5102399	0.159234808	0.613203004
ENSG00000101210	EEF1A2	338.927191	0.159149266	0.78980701
ENSG00000105968	H2AFV	2375.667839	0.158938422	0.538873642
ENSG00000128694	OSGEPL1	219.5000239	0.158791875	0.72880882
ENSG00000148297	MED22	1266.086478	0.158634827	0.690859437
ENSG00000153989	NUS1	15534.64659	0.158566777	0.526228422
ENSG00000173548	SNX33	1226.343623	0.158222738	0.655451572

ENSG00000244716	BX679664.3	323.3547355	0.158112015	0.676739754
ENSG00000141858	SAMD1	1776.789207	0.157906324	0.660158987
ENSG00000047617	ANO2	203.2745357	0.157864162	0.721618641
ENSG00000235106	BRD3OS	82.67409465	0.157792248	0.800345178
ENSG00000143184	XCL1	17.9764167	0.157763323	0.894715105
ENSG00000116141	MARK1	26.21518788	0.157712949	0.869730223
ENSG00000267508	ZNF285	53.70871801	0.157697569	0.853506815
ENSG00000154639	CXADR	63.39063212	0.157336343	0.781754572
ENSG00000178921	PFAS	1552.257472	0.157101772	0.578524081
ENSG00000124134	KCNS1	10.22379723	0.157023635	0.924992392
ENSG00000092871	RFFL	425.4899499	0.156375325	0.741751523
ENSG00000154342	WNT3A	2011.53776	0.156264939	0.67090933
ENSG00000197948	FCHSD1	458.9412221	0.156186054	0.660269175
ENSG00000273674	AC021752.1	6.479252	0.1561507	0.9426476
ENSG00000108883	EFTUD2	5138.174403	0.155740541	0.465589571
ENSG00000279953	AC117503.3	7.471138446	0.155716787	0.928078554
ENSG00000181222	POLR2A	8802.546156	0.155171615	0.618652014
ENSG00000158435	CNOT11	3569.238764	0.155126252	0.500827554
ENSG00000077044	DGKD	713.7910045	0.154965104	0.706674316
ENSG00000126214	KLC1	647.3727689	0.154610182	0.568158684
ENSG00000114378	HYAL1	93.18903413	0.154471987	0.862565231
ENSG00000235016	SEMA3F-AS1	26.76366053	0.154375982	0.877966764
ENSG00000114956	DGUOK	503.2527255	0.154185737	0.577944102
ENSG00000164961	WASHC5	1965.022705	0.154140732	0.53756695

ENSG00000007312	CD79B	10.47271	0.1539199	0.944127
ENSG00000266869	AC005993.1	15.94379668	0.153878785	0.908610337
ENSG00000242759	LINC00882	15.72854425	0.153737994	0.902880418
ENSG00000248936	AC027607.1	5.210211	0.153576	0.945895
ENSG00000273611	ZNHIT3	772.6071647	0.153562816	0.592391397
ENSG00000205571	SMN2	201.7243921	0.153452176	0.727318077
ENSG00000233006	MIR3936HG	12.17479262	0.153407569	0.911981952
ENSG00000108861	DUSP3	3215.380699	0.153320141	0.619037014
ENSG00000134285	FKBP11	362.2983404	0.153182199	0.622945358
ENSG00000184402	SS18L1	367.9478196	0.153098154	0.652143715
ENSG00000136146	MED4	1220.593805	0.15296583	0.546420213
ENSG00000157191	NECAP2	1222.171221	0.152525634	0.530249574
ENSG00000131653	TRAF7	3217.009684	0.152500919	0.645616127
ENSG00000162735	PEX19	1235.934605	0.152309029	0.575197194
ENSG00000136802	LRRC8A	2237.816967	0.152306659	0.582220376
ENSG00000172466	ZNF24	1335.501765	0.152250727	0.530249574
ENSG00000215067	ALOX12-AS1	52.50519415	0.152196505	0.820018683
ENSG00000162244	RPL29	22568.84957	0.152161352	0.512383562
ENSG00000026559	KCNG1	435.0786795	0.152069645	0.780935306
ENSG00000116299	KIAA1324	52.04922292	0.151878562	0.842163074
ENSG00000109133	TMEM33	4667.292348	0.151694404	0.555633389
ENSG00000123064	DDX54	4198.462872	0.151336327	0.567736772
ENSG00000136158	SPRY2	1625.148964	0.150615734	0.616326345
ENSG00000143653	SCCPDH	687.1922074	0.150600932	0.697028238

ENSG00000224631	RPS27AP16	202.4762649	0.150471486	0.713696734
ENSG00000169446	MMGT1	1089.492903	0.150368017	0.544893164
ENSG00000164938	TP53INP1	674.023662	0.15016903	0.565660761
ENSG00000147121	KRBOX4	282.6360068	0.150141953	0.750320268
ENSG00000156171	DRAM2	2592.99555	0.150056012	0.699311805
ENSG00000286511	Z95118.2	7.073295	0.1500487	0.9413379
ENSG00000177981	ASB8	567.3377676	0.149999419	0.646075835
ENSG00000163479	SSR2	11108.76102	0.149950859	0.533187655
ENSG00000161013	MGAT4B	3033.128801	0.14987098	0.525297328
ENSG00000223940	KRT8P8	4.218613	0.1498066	0.9516383
ENSG00000179335	CLK3	2777.906229	0.149187307	0.614663766
ENSG00000134884	ARGLU1	2530.953965	0.14908458	0.528150665
ENSG00000196357	ZNF565	80.22358016	0.148998771	0.788727011
ENSG00000106344	RBM28	2767.252369	0.148434736	0.628181051
ENSG00000180694	TMEM64	91.66373514	0.148218125	0.757311548
ENSG00000130023	ERMARD	399.6256822	0.148088368	0.716601783
ENSG00000229018	PMS2P7	3.997149	0.1480573	0.9536215
ENSG00000229719	MIR194-2HG	20.11971634	0.147885619	0.910587666
ENSG00000144158	AL078621.1	11.47675504	0.147838619	0.908349896
ENSG00000251022	THAP9-AS1	611.1944829	0.147816105	0.646528677
ENSG00000184047	DIABLO	21.48094979	0.147287346	0.874715643
ENSG00000102109	PCSK1N	73.46520963	0.147267381	0.835771156
ENSG00000092929	UNC13D	2996.117358	0.147198525	0.720932119
ENSG00000117505	DR1	2673.2616	0.147173206	0.632512655

ENSG00000281404	LINC01176	87.26911668	0.146963937	0.793895128
ENSG00000260400	AL513534.2	276.1850832	0.14688472	0.793906493
ENSG00000244607	CCDC13	10.75035628	0.146763648	0.914528117
ENSG00000248323	LUCAT1	5.768534	0.1467086	0.9557037
ENSG00000230383	AC009245.1	26.32422647	0.146657758	0.870363077
ENSG00000164051	CCDC51	601.0022335	0.146570389	0.696022494
ENSG00000276141	WHAMMP3	13.7617019	0.146425213	0.908019188
ENSG00000179859	RNF227	16.3555004	0.146267553	0.918896851
ENSG00000186994	KANK3	11.49805196	0.146248074	0.91078796
ENSG00000154743	TSEN2	166.5422972	0.146241333	0.735612967
ENSG00000168255	POLR2J3	32.93134786	0.146191982	0.86315149
ENSG00000125743	SNRPD2	5081.573052	0.146011316	0.524401394
ENSG00000101193	GID8	3008.467833	0.145969492	0.518263543
ENSG00000153767	GTF2E1	564.2509369	0.145765586	0.626337389
ENSG00000064393	HIPK2	37.74332229	0.145512301	0.847118673
ENSG00000114857	NKTR	1225.835175	0.145491682	0.614216001
ENSG00000241973	PI4KA	4904.72018	0.145324871	0.632537796
ENSG00000260778	AC009065.4	9.147338638	0.145274982	0.929937638
ENSG00000132670	PTPRA	1654.496833	0.145262465	0.639209657
ENSG00000111364	DDX55	1575.5182	0.145258843	0.639209657
ENSG00000164346	NSA2	2766.627395	0.145205712	0.547781844
ENSG00000198730	CTR9	4101.367223	0.14509261	0.585869967
ENSG00000110435	PDHX	1562.93521	0.144866815	0.666322245
ENSG00000092199	HNRNPC	25613.5408	0.144719241	0.497362929

ENSG00000278960	AL022329.3	8.760614001	0.144501388	0.928078554
ENSG00000130717	UCK1	798.8884185	0.144492627	0.66178851
ENSG00000127616	SMARCA4	6505.914954	0.144386637	0.69272416
ENSG00000108309	RUNDC3A	12.9571566	0.144318471	0.917048056
ENSG00000133104	SPART	1623.712484	0.14420676	0.627220585
ENSG00000197302	ZNF720	519.6016288	0.144143446	0.688195517
ENSG00000084072	PPIE	639.2110855	0.144085665	0.592611441
ENSG00000240342	RPS2P5	4446.340367	0.143127597	0.613042968
ENSG00000127452	FBXL12	831.7668148	0.142814996	0.653979093
ENSG00000089048	ESF1	802.4139269	0.142814875	0.679416532
ENSG00000106609	TMEM248	4099.052961	0.142760378	0.553696379
ENSG00000205559	CHKB-DT	12.33491214	0.142706258	0.910931518
ENSG00000167107	ACSF2	2667.518893	0.142651287	0.659272032
ENSG00000144559	TAMM41	246.9690086	0.142619075	0.738961554
ENSG00000107672	NSMCE4A	2194.751663	0.142554897	0.550945654
ENSG00000011275	RNF216	1594.760607	0.14231492	0.585760231
ENSG00000065615	CYB5R4	443.3564914	0.14205239	0.680803414
ENSG00000134717	BTF3L4	2257.615993	0.141967705	0.578697094
ENSG00000235823	OLMALINC	87.42512309	0.14191145	0.796163596
ENSG00000142611	PRDM16	4.104665	0.1415983	0.9557073
ENSG00000172336	POP7	1955.278731	0.141557201	0.696284502
ENSG00000173812	EIF1	24032.17102	0.141340296	0.596275905
ENSG00000129696	TTI2	252.1525128	0.141196374	0.672712767
ENSG00000141295	SCRN2	1279.724832	0.141160012	0.746929576

ENSG00000103852	TTC23	244.2494006	0.14112886	0.72386296
ENSG00000198160	MIER1	945.0145805	0.141057933	0.641655343
ENSG00000259917	HNRNPLP2	24.95315199	0.141026747	0.891283149
ENSG00000160072	ATAD3B	3777.503006	0.140890221	0.669885867
ENSG00000232176	AL161909.1	18.39397568	0.140877939	0.891580131
ENSG00000241837	ATP5PO	558.4403047	0.140846962	0.685083522
ENSG00000226525	RPS7P10	6.758275	0.140651	0.933121
ENSG00000161671	EMC10	2189.575572	0.14061196	0.529747769
ENSG00000006756	ARSD	636.4420738	0.140600583	0.68549902
ENSG00000164715	LMTK2	2726.441578	0.140456747	0.626337389
ENSG00000139180	NDUFA9	147.598171	0.140309362	0.766155626
ENSG00000177156	TALDO1	14254.78259	0.139934761	0.667492718
ENSG00000161544	CYGB	160.9533326	0.139883	0.71897374
ENSG00000148834	GSTO1	1146.539026	0.139770218	0.689052445
ENSG00000168286	THAP11	622.5154757	0.139752266	0.73262992
ENSG00000108344	PSMD3	9437.044097	0.139674696	0.56556631
ENSG00000184357	HIST1H1B	7.281435281	0.139624437	0.930948014
ENSG00000108784	NAGLU	693.077173	0.139579407	0.666545596
ENSG00000246548	LINC02288	5.435271	0.1394128	0.9398611
ENSG00000215817	ZC3H11B	21.43588458	0.139333041	0.887109801
ENSG00000186575	NF2	503.6470035	0.139307012	0.635745419
ENSG00000154645	CHODL	24.5121307	0.138977456	0.887110176
ENSG00000205213	LGR4	11132.51419	0.138824374	0.731452634
ENSG00000139998	RAB15	2782.61762	0.138285029	0.544187592

ENSG00000272183	AC005041.3	39.29590379	0.138122368	0.867998369
ENSG00000106245	BUD31	946.561587	0.137722606	0.641638079
ENSG00000121067	SPOP	476.6855406	0.1374761	0.724644603
ENSG00000213839	TMX2P1	107.7944854	0.137339622	0.787646902
ENSG00000156650	KAT6B	362.3182392	0.137339434	0.762279464
ENSG00000114388	NPRL2	573.4993261	0.136961246	0.632512655
ENSG00000139977	NAA30	1251.841678	0.136564595	0.633084004
ENSG00000169592	INO80E	926.1472065	0.136402623	0.665201329
ENSG00000269899	AC025857.2	65.8368702	0.136230313	0.853506815
ENSG00000134245	WNT2B	25.87789748	0.136182964	0.897458682
ENSG00000119414	PPP6C	2438.0409	0.136181212	0.572899204
ENSG00000205517	RGL3	659.222184	0.13599033	0.729644809
ENSG00000132294	EFR3A	1572.900874	0.135930914	0.567736772
ENSG00000115944	COX7A2L	3188.285711	0.135833759	0.547332119
ENSG00000149269	PAK1	5044.141154	0.135813835	0.622885419
ENSG00000197471	SPN	7.506943	0.135516	0.9328151
ENSG00000186001	LRCH3	562.4722444	0.134895561	0.632512655
ENSG00000106459	NRF1	541.9950918	0.134785806	0.665862117
ENSG00000140807	NKD1	7.423716	0.1347858	0.9407127
ENSG00000132356	PRKAA1	1239.384146	0.1347296	0.624451287
ENSG00000178773	CPNE7	7.403776	0.1346088	0.9409566
ENSG00000060642	PIGV	242.6751065	0.134592637	0.761597915
ENSG00000253719	ATXN7L3B	1443.551976	0.134468508	0.653979093
ENSG00000180336	MEIOC	14.08340299	0.134424975	0.925928729

ENSG00000272750	AL592148.3	8.161599	0.1343887	0.9468054
ENSG00000146574	CCZ1B	735.2874307	0.133764029	0.604678381
ENSG00000114302	PRKAR2A	2096.491605	0.133658408	0.715559665
ENSG00000153902	LGI4	6.18783	0.1336165	0.9416336
ENSG00000118137	APOA1	2.682081	0.1335504	0.9700655
ENSG00000135074	ADAM19	17863.89946	0.133452399	0.733401735
ENSG00000159917	ZNF235	95.24615913	0.133411038	0.804129621
ENSG00000123870	ZNF137P	67.16441576	0.133198584	0.835924174
ENSG00000266967	AARSD1	7.556682	0.1331308	0.937604
ENSG00000110048	OSBP	7209.226127	0.133115207	0.677678548
ENSG00000236859	NIFK-AS1	16.59216832	0.133101299	0.903466027
ENSG00000105373	NOP53	5143.12187	0.13304976	0.622317804
ENSG00000126562	WNK4	88.87331732	0.133023805	0.852617531
ENSG00000071073	MGAT4A	19082.71673	0.13286998	0.671860293
ENSG00000175104	TRAF6	395.177596	0.132833635	0.750257468
ENSG00000244687	UBE2V1	50.44191303	0.132803923	0.840167382
ENSG00000182180	MRPS16	2560.47609	0.132540856	0.631019697
ENSG00000160917	CPSF4	2936.964389	0.132472098	0.629654196
ENSG00000189280	GJB5	58.02127626	0.132386889	0.870341522
ENSG00000173467	AGR3	4.638142	0.1322309	0.9548351
ENSG00000130513	GDF15	59924.08831	0.132038987	0.788720911
ENSG00000150967	ABCB9	213.4588225	0.131983877	0.734574401
ENSG00000175315	CST6	614.8102825	0.131904514	0.82208587
ENSG00000102606	ARHGEF7	2156.484283	0.131895079	0.591156658

ENSG00000259240	MIR4713HG	4.201512	0.1317983	0.9606928
ENSG00000136816	TOR1B	1755.153988	0.131450278	0.596599011
ENSG00000167637	ZNF283	180.6777048	0.131434933	0.725876247
ENSG00000181830	SLC35C1	1870.651432	0.131331875	0.66847836
ENSG00000066455	GOLGA5	4971.311368	0.131189375	0.670456739
ENSG00000167595	PROSER3	183.2382019	0.131186914	0.797702319
ENSG00000125505	MBOAT7	1795.518668	0.130881799	0.646452352
ENSG00000059122	FLYWCH1	659.0259644	0.130680997	0.686832638
ENSG00000276952	AL121772.3	6.785612	0.1305926	0.9378176
ENSG00000185332	AC027601.1	8.241401	0.1304906	0.9354562
ENSG00000121892	PDS5A	3287.653636	0.130364875	0.676738996
ENSG00000128294	TPST2	1141.008079	0.13022225	0.678156154
ENSG00000181744	DIPK2A	57.41216963	0.130061331	0.836370788
ENSG00000130208	APOC1	582.8984301	0.129769375	0.800380287
ENSG00000089693	MLF2	7155.089128	0.129752936	0.636086607
ENSG00000144535	DIS3L2	446.9790373	0.129547952	0.708177162
ENSG00000269293	ZSCAN16-AS1	10.45503	0.1292671	0.9394094
ENSG00000141425	RPRD1A	922.9827516	0.129180711	0.626928224
ENSG00000109265	KIAA1211	50.4003733	0.12893432	0.868793294
ENSG00000100030	MAPK1	3307.318331	0.128842565	0.693833241
ENSG00000090530	P3H2	1679.64781	0.128557814	0.623923491
ENSG00000080608	PUM3	2642.07152	0.128314802	0.595588924
ENSG00000234585	CCT6P3	217.749317	0.128231411	0.714656632
ENSG00000100883	SRP54	5556.63841	0.128154478	0.598216307

ENSG00000163879	DNALI1	29.71128879	0.128034635	0.896191976
ENSG00000269842	AC011453.1	1993.80267	0.127887495	0.764082963
ENSG00000166164	BRD7	2846.547736	0.12762817	0.598216307
ENSG00000146833	TRIM4	229.199222	0.127335276	0.812825712
ENSG00000287808	AL355999.1	4.07448	0.1272701	0.958668
ENSG00000198586	TLK1	8728.577449	0.127259212	0.65425208
ENSG00000177943	MAMDC4	81.09458043	0.127015234	0.846806857
ENSG00000145817	YIPF5	2728.264015	0.126951454	0.665605651
ENSG00000115138	POMC	12.1852	0.126761	0.9396699
ENSG00000112685	EXOC2	1242.173315	0.126740743	0.67451801
ENSG00000131591	C1orf159	345.3488517	0.12672528	0.720042822
ENSG00000120963	ZNF706	2413.270323	0.126701264	0.604975086
ENSG00000143947	RPS27A	19575.61709	0.126671377	0.604836085
ENSG00000236449	AC010894.3	8.80021959	0.126322974	0.930549151
ENSG00000166920	C15orf48	29.46007978	0.126209334	0.908949808
ENSG00000199038	MIR210	4.897097	0.1260149	0.9557037
ENSG00000268230	AC012313.3	5.448642	0.125997	0.9533363
ENSG00000197780	TAF13	3696.733834	0.125979422	0.662270034
ENSG00000145675	PIK3R1	2862.176435	0.125903274	0.699964664
ENSG00000237214	AL080243.2	6.726304	0.1258392	0.9531833
ENSG00000257167	TMPO-AS1	18.51118723	0.125838234	0.915343997
ENSG00000100425	BRD1	1457.507937	0.125778379	0.654367727
ENSG00000005206	SPPL2B	556.3742922	0.125635394	0.72040002
ENSG00000204177	BMS1P1	19.33176446	0.125627621	0.914619843

ENSG00000273209	AC069148.1	2.803381	0.1254754	0.9680043
ENSG00000279800	BCLAF1P2	10.94362178	0.125312147	0.92795734
ENSG00000152520	PAN3	861.2032694	0.125143661	0.645251968
ENSG00000142541	RPL13A	50999.55769	0.125007318	0.628420928
ENSG00000116863	ADPRHL2	1044.326367	0.124806859	0.687623566
ENSG00000081177	EXD2	677.4915153	0.124677868	0.686742632
ENSG00000059573	ALDH18A1	2906.808433	0.124601576	0.718130123
ENSG00000157978	LDLRAP1	806.8022115	0.124376597	0.739330509
ENSG00000186020	ZNF529	228.3803635	0.124338137	0.780742187
ENSG00000267787	AC027097.2	23.53850507	0.124266307	0.905100201
ENSG00000144713	RPL32	22322.62026	0.124178974	0.600983135
ENSG00000160049	DFFA	1910.580278	0.124114365	0.622947455
ENSG00000269097	TPRG1LP1	17.89561953	0.124007023	0.913698594
ENSG00000130818	ZNF426	379.3961776	0.123945367	0.689558779
ENSG00000136940	PDCL	517.5639164	0.123941707	0.6621392
ENSG00000135926	TMBIM1	13699.27314	0.123729241	0.649642696
ENSG00000168653	NDUFS5	4574.125489	0.123710871	0.642850713
ENSG00000111845	PAK1IP1	850.8314162	0.123593046	0.755120418
ENSG00000129932	DOHH	658.8725553	0.123402573	0.778843715
ENSG00000242609	AC105265.2	4.653832	0.1234001	0.9573557
ENSG00000130714	POMT1	850.1510385	0.123158028	0.754922403
ENSG00000126254	RBM42	3274.205868	0.122965494	0.685870394
ENSG00000135677	GNS	9303.381874	0.122920757	0.719391044
ENSG00000211460	TSN	1269.308569	0.122826245	0.653979093

ENSG00000261267	AC026470.2	7.568823	0.122391	0.9416894
ENSG00000198169	ZNF251	86.71732684	0.122365055	0.81241505
ENSG00000163959	SLC51A	22.62622951	0.122072309	0.91256549
ENSG00000168243	GNG4	75.38410494	0.121953358	0.846560555
ENSG00000264644	KRT18P8	16.73131505	0.121900825	0.917048056
ENSG00000111880	RNGTT	725.3332661	0.121898823	0.673183928
ENSG00000173540	GMPPB	5387.043933	0.121506258	0.631395176
ENSG00000104325	DECR1	529.5336249	0.121450377	0.728111876
ENSG00000063245	EPN1	2658.343696	0.121279737	0.629825762
ENSG00000173960	UBXN2A	794.5105047	0.121167501	0.690859437
ENSG00000124198	ARFGEF2	6591.780561	0.121166456	0.778888151
ENSG00000129472	RAB2B	427.279139	0.12116611	0.717932838
ENSG00000139842	CUL4A	5002.983925	0.121005257	0.611371296
ENSG00000182240	BACE2	4139.161191	0.120978134	0.677411638
ENSG00000172943	PHF8	2479.586427	0.120578591	0.643202603
ENSG00000215883	CYB5RL	79.4853379	0.120308046	0.824029169
ENSG00000165637	VDAC2	6418.444361	0.120303779	0.632512655
ENSG00000228933	AC107419.1	9.245629	0.1201167	0.9551094
ENSG00000128564	VGF	258.1503801	0.12006725	0.76735588
ENSG00000006831	ADIPOR2	5666.855411	0.120066107	0.662270034
ENSG00000073008	PVR	413.4357659	0.119842899	0.820631997
ENSG00000164091	WDR82	4155.120394	0.119809119	0.656068609
ENSG00000157884	CIB4	35.85000345	0.119743055	0.891758595
ENSG00000167703	SLC43A2	28560.79387	0.119366021	0.737090553

ENSG00000049167	ERCC8	143.1123062	0.119364486	0.777872079
ENSG00000244313	AC024293.1	129.3749263	0.119204429	0.787304435
ENSG00000138768	USO1	9758.528816	0.119171866	0.71502526
ENSG00000131089	ARHGEF9	206.4089403	0.119086848	0.785543132
ENSG00000275700	AATF	3573.661571	0.118907247	0.621634367
ENSG00000251574	AC099520.1	11.97232	0.1188457	0.9378176
ENSG00000170385	SLC30A1	5892.189515	0.118819412	0.759697437
ENSG00000142949	PTPRF	22746.80606	0.118620081	0.718883106
ENSG00000073050	XRCC1	921.6670089	0.118403336	0.721618641
ENSG00000110274	CEP164	135.3608909	0.118351561	0.814231923
ENSG00000189369	GSPT2	127.6399991	0.118314582	0.831702483
ENSG00000164258	NDUFS4	982.6555746	0.118264944	0.697619477
ENSG00000071626	DAZAP1	5203.479864	0.118222437	0.627585857
ENSG00000122862	SRGN	15.50136943	0.117592509	0.920748704
ENSG00000186635	ARAP1	1498.629181	0.117455379	0.716601783
ENSG00000273271	AP000254.2	8.039835	0.1174502	0.9417601
ENSG00000205362	MT1A	16.06983801	0.117215467	0.913735255
ENSG00000271737	AC008608.2	4.855309	0.1171619	0.9577598
ENSG00000167904	TMEM68	815.457746	0.117141472	0.669481305
ENSG00000247708	STX18-AS1	26.62975405	0.116767563	0.905905321
ENSG00000092098	RNF31	13.58096643	0.116603512	0.925769334
ENSG00000124216	SNAI1	291.6660454	0.116366435	0.841672096
ENSG00000168374	ARF4	12520.29179	0.11631515	0.641498764
ENSG00000285888	Z85996.2	3.059803	0.1161997	0.9688019

ENSG00000168014	C2CD3	382.1938773	0.116115612	0.823367208
ENSG00000070761	CFAP20	743.1380249	0.116107075	0.687459456
ENSG00000123358	NR4A1	16647.64336	0.116078969	0.748473002
ENSG00000109919	MTCH2	2689.358843	0.116062972	0.690859437
ENSG00000104881	PPP1R13L	3682.553411	0.115688348	0.651294182
ENSG00000124562	SNRPC	1972.857028	0.115685529	0.671860293
ENSG00000075914	EXOSC7	1453.886431	0.115019694	0.769439873
ENSG00000271425	NBPF10	350.218783	0.114989211	0.765817571
ENSG00000214389	RPS3AP26	167.7317642	0.11495547	0.789872404
ENSG00000173064	HECTD4	1165.008687	0.114811013	0.784858881
ENSG00000189283	FHIT	12.63058	0.1147627	0.9337474
ENSG00000105559	PLEKHA4	203.4854981	0.114710383	0.761684187
ENSG00000156599	ZDHHC5	16116.94059	0.114459036	0.63066659
ENSG00000138363	ATIC	10276.50353	0.114406364	0.687308402
ENSG00000075975	MKRN2	1760.179147	0.114158898	0.663417274
ENSG00000159346	ADIPOR1	8257.693914	0.11413959	0.65334005
ENSG00000112234	FBXL4	404.6600331	0.114087043	0.788407852
ENSG00000234327	AC012146.1	32.80321425	0.113934465	0.891580131
ENSG00000279673	AC092919.2	8.302987	0.1137462	0.9414493
ENSG00000128692	EIF2S2P4	123.5105619	0.113691675	0.810372339
ENSG00000212789	ST13P5	7.678425	0.113546	0.9477649
ENSG00000103174	NAGPA	366.0179376	0.112941993	0.728971367
ENSG00000115525	ST3GAL5	6.575706	0.1128728	0.9581611
ENSG00000005007	UPF1	7232.867991	0.112475761	0.6677548

ENSG00000151893	CACUL1	4702.157732	0.112468387	0.751198846
ENSG00000129422	MTUS1	6254.16405	0.112191252	0.754582759
ENSG00000167685	ZNF444	286.0389957	0.112179264	0.801622174
ENSG00000129910	CDH15	10.52278	0.1121427	0.9484778
ENSG00000186056	MATN1-AS1	7.576283	0.1120474	0.9496657
ENSG00000100664	EIF5	13532.56069	0.112036431	0.72880882
ENSG00000176340	COX8A	1047.214973	0.112003944	0.704809854
ENSG00000007866	TEAD3	19754.95976	0.111999648	0.69935484
ENSG00000248671	ALG1L9P	7.041029	0.1119421	0.9527872
ENSG00000100462	PRMT5	1782.734717	0.11193548	0.747619062
ENSG00000160563	MED27	923.0605581	0.111901809	0.699629171
ENSG00000100372	SLC25A17	1185.140839	0.111866511	0.662870448
ENSG00000172661	WASHC2C	481.8280472	0.111788461	0.714287866
ENSG00000128590	DNAJB9	6807.228142	0.111772493	0.709847979
ENSG00000230753	ZNF341-AS1	50.25405368	0.111715849	0.894632997
ENSG00000067334	DNTTIP2	3146.790646	0.111487539	0.763014807
ENSG00000078140	UBE2K	5884.498909	0.111382581	0.650687382
ENSG00000145979	TBC1D7	468.2359795	0.111189725	0.791625261
ENSG00000142082	SIRT3	269.9878283	0.111059216	0.829813054
ENSG00000258947	TUBB3	68.37874286	0.111043806	0.894911236
ENSG00000065518	NDUFB4	1664.465324	0.111028126	0.711943528
ENSG00000111058	ACSS3	122.2753639	0.110971907	0.843482769
ENSG00000145147	SLIT2	9.516956	0.1109044	0.9471991
ENSG00000198585	NUDT16	573.4681432	0.110759437	0.801859137

ENSG00000112494	UNC93A	23.0339525	0.110508948	0.914505559
ENSG00000172840	PDP2	574.4984359	0.11020794	0.760030109
ENSG00000103160	HSDL1	444.915876	0.110105649	0.731224059
ENSG00000253270	AC090541.1	31.33614	0.1099991	0.9411547
ENSG00000204469	PRRC2A	7751.237863	0.10986742	0.77855936
ENSG00000151532	VTI1A	609.9696854	0.109672541	0.741419876
ENSG00000131943	C19orf12	1350.582124	0.109421421	0.662270034
ENSG00000137106	GRHPR	1964.29219	0.109197278	0.656035691
ENSG00000087008	ACOX3	1673.29937	0.109188359	0.72574891
ENSG00000072506	HSD17B10	4123.319067	0.109142097	0.702592261
ENSG00000101608	MYL12A	3959.277024	0.108968148	0.697185391
ENSG00000171425	ZNF581	496.9668457	0.108852851	0.722246219
ENSG00000147459	DOCK5	1000.000204	0.108843583	0.749650759
ENSG00000111850	SMIM8	183.5932416	0.108686325	0.826124867
ENSG00000132004	FBXW9	128.1110476	0.108338211	0.816328391
ENSG00000126945	HNRNPH2	3866.125203	0.108277044	0.639793863
ENSG00000166986	MARS	13378.6812	0.108274803	0.73654022
ENSG00000142676	RPL11	25108.6443	0.108270408	0.646713955
ENSG00000128016	ZFP36	667.1931211	0.108219537	0.80035732
ENSG00000248049	UBA6-AS1	111.0474701	0.108135365	0.868454388
ENSG00000136888	ATP6V1G1	2837.789259	0.10807352	0.646862271
ENSG00000115750	TAF1B	1235.335788	0.108058591	0.719245496
ENSG00000060558	GNA15	6.446606	0.1079688	0.9569672
ENSG00000281741	AC241377.3	7.080615	0.1079429	0.9574186

ENSG00000022277	RTF2	2464.299272	0.107933054	0.669129219
ENSG00000198466	ZNF587	356.5961347	0.107878551	0.785533969
ENSG00000136378	ADAMTS7	45.13596827	0.107524951	0.875440009
ENSG00000286378	AL713852.2	11.06017	0.1075128	0.9456949
ENSG00000165458	INPPL1	7612.211038	0.107393614	0.763701418
ENSG00000128886	ELL3	16.90722	0.1071072	0.932773
ENSG00000283041	AC008038.1	448.1240497	0.107090797	0.747631456
ENSG00000158545	ZC3H18	2425.51391	0.107026046	0.673777586
ENSG00000180964	TCEAL8	2108.550018	0.106886081	0.727723422
ENSG00000181274	FRAT2	520.5966827	0.106842664	0.775251815
ENSG00000248783	AC106771.1	16.44377838	0.106796814	0.925769334
ENSG00000141522	ARHGDIA	5341.760134	0.106764483	0.679183582
ENSG00000158156	XKR8	969.0092825	0.106763914	0.780954825
ENSG00000272335	AC093297.2	22.82647668	0.106746611	0.921525713
ENSG00000175866	BAIAP2	4678.727856	0.106715851	0.698254175
ENSG00000163608	NEPRO	764.4057592	0.106713759	0.696250953
ENSG00000078304	PPP2R5C	3777.173199	0.106426298	0.662919525
ENSG00000102172	SMS	7310.689963	0.106346713	0.697592288
ENSG00000132017	DCAF15	1724.512941	0.106343135	0.666248185
ENSG00000089006	SNX5	10505.24481	0.106303092	0.724207089
ENSG00000125834	STK35	1218.074423	0.106203483	0.71184153
ENSG00000134882	UBAC2	5809.915032	0.106176053	0.721618641
ENSG00000050393	MCUR1	2625.233293	0.106169195	0.682206879
ENSG00000007080	CCDC124	3371.910686	0.105866465	0.687150007

ENSG00000051523	CYBA	2690.806969	0.105677475	0.679821403
ENSG00000100916	BRMS1L	355.3281825	0.105321127	0.762279464
ENSG00000145495	MARCH6	6371.444502	0.104964654	0.708233914
ENSG00000092820	EZR	80413.27233	0.104934272	0.731755119
ENSG00000225973	PIGBOS1	97.08286974	0.104921638	0.864261469
ENSG00000136451	VEZF1	1025.929961	0.104856061	0.724648469
ENSG00000165813	CCDC186	2266.273112	0.104812034	0.749854979
ENSG00000204778	CBWD4P	14.3191	0.1047338	0.9417601
ENSG00000185130	HIST1H2BL	5.521662	0.1046065	0.9631723
ENSG00000215030	RPL13P12	103.1510455	0.104305678	0.844574895
ENSG00000169116	PARM1	1243.555526	0.104251617	0.823109309
ENSG00000176769	TCERG1L	20.43035198	0.104186726	0.920228644
ENSG00000269001	AC092070.2	342.1664884	0.104158301	0.786590755
ENSG00000250722	SELENOP	5.245718	0.1041462	0.9576427
ENSG00000271806	AL590822.2	107.3942542	0.103897985	0.901251066
ENSG00000100504	PYGL	2116.003168	0.103765661	0.837310593
ENSG00000236814	AC046176.1	18.88713	0.1036244	0.9413379
ENSG00000010318	PHF7	44.83103346	0.10337633	0.899640733
ENSG00000197893	NRAP	4.685213	0.1032098	0.9654787
ENSG00000123106	CCDC91	157.7984163	0.103139697	0.836518099
ENSG00000110060	PUS3	805.7910804	0.102922537	0.791798758
ENSG00000143207	COP1	1800.684126	0.102809963	0.690741085
ENSG00000125740	FOSB	3835.596645	0.102613406	0.816463398
ENSG00000175766	EIF4E1B	23.40547175	0.102600594	0.928540917

ENSG00000037241	RPL26L1	719.7411206	0.102571589	0.75313153
ENSG00000105072	C19orf44	80.2260038	0.102556409	0.855093696
ENSG00000102891	MT4	84.72178249	0.102386799	0.876908908
ENSG00000176142	TMEM39A	3768.663773	0.10236865	0.7068826
ENSG00000152944	MED21	698.3695562	0.10232962	0.750863397
ENSG00000213189	BTF3L4P2	12.53176	0.1022066	0.937973
ENSG00000124574	ABCC10	898.582158	0.102053127	0.733662691
ENSG00000119596	YLPM1	2033.269343	0.101869565	0.71966792
ENSG00000213801	ZNF321P	39.12681638	0.101833661	0.921609461
ENSG00000166135	HIF1AN	2607.039522	0.101826936	0.687034893
ENSG00000214717	ZBED1	3388.559189	0.101810359	0.804250662
ENSG00000166272	WBP1L	4477.246747	0.101479452	0.692301808
ENSG00000224660	SH3BP5-AS1	243.0216694	0.101311985	0.853343374
ENSG00000153046	CDYL	4142.054111	0.101209557	0.747307836
ENSG00000162511	LAPTM5	19.28410451	0.101113347	0.924319471
ENSG00000119333	WDR34	4041.002608	0.100874286	0.724006604
ENSG00000036672	USP2	32.82857552	0.100511318	0.905141154
ENSG00000213397	HAUS7	17.91714	0.1003901	0.937973
ENSG00000261189	AL031058.1	32.75362952	0.100273765	0.89958467
ENSG00000160208	RRP1B	962.1884305	0.100266271	0.701212636
ENSG00000132773	TOE1	334.0677943	0.0999767	0.825109922
ENSG00000180257	ZNF816	799.6689152	0.099949616	0.837483762
ENSG00000083457	ITGAE	311.8920329	0.099489537	0.836370788
ENSG00000166246	C16orf71	7.845394	0.09939631	0.9557037

ENSG00000231702	AL645608.3	27.13671344	0.099345649	0.913727839
ENSG00000230623	AC104461.1	10.81315	0.09928498	0.9426476
ENSG00000157322	CLEC18A	13.41146	0.09917859	0.9413379
ENSG00000265354	TIMM23	2056.385128	0.098721745	0.722518583
ENSG00000162482	AKR7A3	11.0741	0.09867689	0.9466541
ENSG00000182446	NPLOC4	10359.20182	0.098296989	0.732989118
ENSG00000169738	DCXR	1463.468746	0.097961469	0.787940919
ENSG00000105258	POLR2I	79.0979799	0.097928588	0.872982366
ENSG00000135334	AKIRIN2	2198.225997	0.097694543	0.754582759
ENSG00000218175	AC016739.1	52.13174391	0.097644504	0.889404017
ENSG00000145741	BTF3	15856.36887	0.097581306	0.701809199
ENSG00000148985	PGAP2	958.9582283	0.097490312	0.711463561
ENSG00000185088	RPS27L	4116.972381	0.097487859	0.750199282
ENSG00000100106	TRIOBP	2431.113512	0.097440659	0.771611031
ENSG00000107968	MAP3K8	2524.325409	0.097176914	0.709315583
ENSG00000077721	UBE2A	8212.364449	0.096908986	0.788064997
ENSG00000171004	HS6ST2	38.52350122	0.096772087	0.900436081
ENSG00000128596	CCDC136	59.81109884	0.096706061	0.874337331
ENSG00000105696	TMEM59L	36.27696213	0.09666163	0.911344504
ENSG00000207425	Y_RNA	25.84632347	0.096656147	0.914505559
ENSG00000240288	GHRLOS	16.07157	0.09662096	0.9398479
ENSG00000132603	NIP7	1327.001859	0.09660198	0.778546437
ENSG00000143842	SOX13	6791.401599	0.096397898	0.733545997
ENSG00000052723	SIKE1	999.9348883	0.096353808	0.746656825

ENSG00000242259	C22orf39	275.710453	0.096179452	0.832042808
ENSG00000099995	SF3A1	4870.29819	0.096092513	0.720040143
ENSG00000105364	MRPL4	990.7538572	0.096090198	0.72880882
ENSG00000158109	TPRG1L	1369.811082	0.096064173	0.74238985
ENSG00000188483	IER5L	819.8783518	0.096053473	0.820889222
ENSG00000100811	YY1	5710.26995	0.095875386	0.730813997
ENSG00000143106	PSMA5	4984.277594	0.095519211	0.748030333
ENSG00000085733	CTTN	10646.47772	0.095414175	0.686888103
ENSG00000279220	GPR1-AS	410.4616309	0.095380978	0.819658523
ENSG00000175387	SMAD2	2279.933608	0.095084035	0.763127031
ENSG00000158850	B4GALT3	4400.564579	0.094957923	0.720666959
ENSG00000005889	ZFX	664.7185429	0.09494228	0.734761146
ENSG00000174405	LIG4	155.077492	0.094911155	0.827223147
ENSG00000068724	TTC7A	3843.304003	0.094875952	0.7068826
ENSG00000128928	IVD	113.6684789	0.094763782	0.876392636
ENSG00000101109	STK4	881.020778	0.09473126	0.725086607
ENSG00000115207	GTF3C2	3241.677899	0.094720586	0.708667525
ENSG00000105518	TMEM205	147.8583605	0.094501602	0.843071967
ENSG00000198860	TSEN15	754.1230665	0.094496882	0.794146354
ENSG00000196663	TECPR2	446.1139957	0.094467411	0.800380287
ENSG00000245281	AC124242.1	6.648473	0.09441345	0.9606861
ENSG00000178105	DDX10	1181.426891	0.094346634	0.785533969
ENSG00000118197	DDX59	1885.521647	0.094296633	0.734574401
ENSG00000100897	DCAF11	1548.758741	0.09428068	0.795492135

ENSG00000152117	AC073869.1	284.4808373	0.094268571	0.790400079
ENSG00000173868	PHOSPHO1	7580.748354	0.094263751	0.830193795
ENSG00000241549	GUSBP2	8.470425	0.0941652	0.9486562
ENSG00000231443	AC124944.1	4.793572	0.09416478	0.9667006
ENSG00000095370	SH2D3C	8.131384	0.09401379	0.9600691
ENSG00000197753	LHFPL5	27.62475426	0.093962683	0.918308122
ENSG00000196189	SEMA4A	7.725316	0.09385906	0.954318
ENSG00000226450	CYP2D8P	4.052993	0.09378824	0.9678015
ENSG00000249264	EEF1A1P9	4.052993	0.09378824	0.9678015
ENSG00000105640	RPL18A	19098.60278	0.093651845	0.696250953
ENSG00000140471	LINS1	293.1898673	0.093645015	0.778696645
ENSG00000172534	HCFC1	4126.894861	0.09347482	0.788720911
ENSG00000198718	TOGARAM1	257.4666124	0.093306209	0.805008067
ENSG00000205423	CNEP1R1	528.7085297	0.093116393	0.759992676
ENSG00000116580	GON4L	1699.702322	0.092745983	0.754572936
ENSG00000161905	ALOX15	8.198681	0.09268415	0.955614
ENSG00000099377	HSD3B7	96.89810759	0.09240258	0.906070512
ENSG00000197296	FITM2	179.7082961	0.092247391	0.859411349
ENSG00000164073	MFSD8	990.5507486	0.09219614	0.789151555
ENSG00000188352	FOCAD	2971.519338	0.091995432	0.843503055
ENSG00000143252	SDHC	4047.723067	0.091654019	0.725086607
ENSG00000106992	AK1	38.6201192	0.091491282	0.917048056
ENSG00000138663	COPS4	1309.426437	0.091249356	0.740642751
ENSG00000254750	CASP1P2	190.3668701	0.091220196	0.867628709

ENSG00000082515	MRPL22	904.8213034	0.091116891	0.798138207
ENSG00000113194	FAF2	2761.089241	0.090990907	0.728870251
ENSG00000131871	SELENOS	3765.889112	0.090861912	0.820288543
ENSG00000129636	ITFG1	3865.16243	0.090806774	0.751237649
ENSG00000122406	RPL5	28006.39996	0.090782172	0.71502526
ENSG00000166444	ST5	500.3247522	0.090580117	0.788194692
ENSG00000198625	MDM4	1344.485269	0.090552447	0.804077729
ENSG00000138101	DTNB	15.18813	0.09048528	0.9380028
ENSG00000141034	GID4	761.2924188	0.09028929	0.79448562
ENSG00000197728	RPS26	12032.30802	0.090003307	0.70954892
ENSG00000110063	DCPS	475.3828483	0.089974087	0.819498207
ENSG00000138381	ASNSD1	923.0265336	0.089853676	0.800457954
ENSG00000204386	NEU1	5810.556582	0.089702411	0.72629332
ENSG00000108666	C17orf75	401.6080283	0.089183299	0.831702483
ENSG00000155254	MARVELD1	1445.015141	0.088971671	0.812107711
ENSG00000176912	TYMSOS	44.41520467	0.088775434	0.915772762
ENSG00000267058	AC006213.2	34.06120271	0.088414203	0.925928729
ENSG00000198648	STK39	45.67942397	0.088138938	0.923569522
ENSG00000108443	RPS6KB1	2210.76904	0.088073649	0.775793104
ENSG00000233762	AC007969.1	66.88450547	0.088015833	0.887000062
ENSG00000262814	MRPL12	356.2625481	0.087911722	0.811222912
ENSG00000119705	SLIRP	993.2009782	0.087819368	0.791961716
ENSG00000281706	AL009179.1	53.23208153	0.087700977	0.910931518
ENSG00000120705	ETF1	16796.26633	0.087592258	0.74238985

ENSG00000239605	STPG4	6.000316	0.08756274	0.9661252
ENSG00000237164	SLC25A15P2	5.253358	0.08747106	0.968956
ENSG00000078319	PMS2P1	112.3982088	0.08739097	0.8824898
ENSG00000147010	SH3KBP1	4222.104394	0.087043896	0.719113474
ENSG00000135837	CEP350	2022.125159	0.086946073	0.795162241
ENSG00000162399	BSND	5.03779	0.08659016	0.9649758
ENSG00000181908	LINC02724	31.15486921	0.086468266	0.920228644
ENSG00000138942	RNF185	2498.643762	0.086444426	0.761597915
ENSG00000240230	COX19	638.7862024	0.086423871	0.798455447
ENSG00000169564	PCBP1	420.2447908	0.086354451	0.824185898
ENSG00000138757	G3BP2	6495.449774	0.086344243	0.835874083
ENSG00000102158	MAGT1	4098.382787	0.086182956	0.722808655
ENSG00000100802	C14orf93	166.2725973	0.086129043	0.84725398
ENSG00000012660	ELOVL5	4627.867343	0.086069671	0.82153068
ENSG00000228327	AL669831.1	74.65938408	0.085883026	0.902357961
ENSG00000130204	TOMM40	2757.599646	0.085763394	0.82812558
ENSG00000071537	SEL1L	3345.138932	0.085750343	0.779719281
ENSG00000089639	GMIP	211.8368911	0.0856999	0.83512849
ENSG00000165629	ATP5F1C	6580.613756	0.085665893	0.754876759
ENSG00000166441	RPL27A	24812.99177	0.085641828	0.713880088
ENSG00000197756	RPL37A	19987.3319	0.085607983	0.72601679
ENSG00000120948	TARDBP	2962.228064	0.085187518	0.761318426
ENSG00000177410	ZFAS1	216.9157139	0.084949381	0.832041763
ENSG00000170364	SETMAR	188.1644066	0.084893852	0.862565231

ENSG00000100138	SNU13	6123.144097	0.084735937	0.737820993
ENSG00000184277	TM2D3	918.2729269	0.084650887	0.780298073
ENSG00000152582	SPEF2	30.01582442	0.084538574	0.924193589
ENSG00000141258	SGSM2	1339.065351	0.084528399	0.780367913
ENSG00000185298	CCDC137	1839.991647	0.08448517	0.766155626
ENSG00000225932	CTAGE4	64.20345346	0.084191499	0.8931215
ENSG00000153310	FAM49B	2507.972263	0.08406226	0.770016606
ENSG00000136854	STXBP1	3185.127293	0.084051526	0.815442274
ENSG00000162885	B3GALNT2	1387.001277	0.084023332	0.775806543
ENSG00000087237	CETP	5.481462	0.08393915	0.9696715
ENSG00000272333	KMT2B	2149.065263	0.083912826	0.822341963
ENSG00000272695	GAS6-DT	10.61184	0.08386762	0.9654787
ENSG00000152219	ARL14EP	124.7716401	0.083742569	0.863517964
ENSG00000057757	PITHD1	1725.473621	0.083322493	0.783982759
ENSG00000133961	NUMB	2893.88457	0.083061237	0.757697698
ENSG00000173120	KDM2A	5020.745683	0.082979238	0.796319886
ENSG00000272138	LINC01607	6.657952	0.08295248	0.9634573
ENSG00000099290	WASHC2A	669.8485093	0.082876036	0.797862374
ENSG00000147669	POLR2K	1237.973728	0.082780708	0.777574792
ENSG00000175110	MRPS22	1657.389651	0.082627754	0.820018683
ENSG00000105402	NAPA	1623.178827	0.082558809	0.761187897
ENSG00000168228	ZCCHC4	273.9677057	0.082508447	0.836370788
ENSG00000157184	CPT2	218.8797224	0.082345329	0.843846012
ENSG00000255062	AP001318.2	20.82141	0.08215351	0.9367875

ENSG00000135540	NHSL1	3306.647524	0.082035959	0.788181871
ENSG00000174292	TNK1	101.8771867	0.081956515	0.891754589
ENSG00000066135	KDM4A	515.8831728	0.081920398	0.820018683
ENSG00000125870	SNRPB2	1279.374332	0.081852055	0.761029234
ENSG00000025770	NCAPH2	3726.545942	0.081701354	0.788064997
ENSG00000198746	GPATCH3	985.2111683	0.081496946	0.873102126
ENSG00000116106	EPHA4	12.46328	0.0814375	0.9576427
ENSG00000139645	ANKRD52	2619.522448	0.081188731	0.818212749
ENSG00000071082	RPL31	14283.91469	0.081062666	0.744753011
ENSG00000271079	CTAGE15	21.3181	0.08085292	0.936638
ENSG00000243156	MICAL3	171.5622066	0.080840469	0.85962231
ENSG00000077312	SNRPA	2190.949415	0.080663983	0.785331239
ENSG00000116560	SFPQ	9806.07808	0.080630754	0.862684497
ENSG00000141756	FKBP10	176.5162764	0.080535172	0.891580131
ENSG00000205593	DENND6B	6.683655	0.08032228	0.9671509
ENSG00000002330	BAD	494.5746391	0.080317746	0.813232927
ENSG00000113013	HSPA9	8485.827648	0.080182168	0.758953954
ENSG00000110080	ST3GAL4	7738.431375	0.080177675	0.776225078
ENSG00000213742	ZNF337-AS1	7.877988	0.08014416	0.9659455
ENSG00000102738	MRPS31	955.9607824	0.080072769	0.804077729
ENSG00000177030	DEAF1	1444.096934	0.080066119	0.80035732
ENSG00000139209	SLC38A4	74.10484346	0.079932641	0.925928729
ENSG00000151224	MAT1A	6.678406	0.07969948	0.9640943
ENSG00000261423	TMEM202-AS1	6.734751	0.07969443	0.9659549

ENSG00000102243	VGLL1	18666.9461	0.079662876	0.845204577
ENSG00000263266	RPS7P1	133.5561696	0.079445795	0.865985627
ENSG00000172009	THOP1	6693.975138	0.079338749	0.84789213
ENSG00000143919	CAMKMT	148.9318583	0.079274426	0.851672761
ENSG00000115484	CCT4	6452.814154	0.079188207	0.777650807
ENSG00000255893	AP000786.1	6.086582	0.07917925	0.9700719
ENSG00000001036	FUCA2	3447.617631	0.078793564	0.785331239
ENSG00000166532	RIMKLB	3074.168913	0.078788952	0.838767714
ENSG00000114030	KPNA1	1510.667953	0.078748142	0.787474209
ENSG00000134262	AP4B1	125.9664563	0.078696164	0.887110176
ENSG00000196365	LONP1	7107.14947	0.078409696	0.836251349
ENSG00000132329	RAMP1	17.53091	0.07825006	0.9516703
ENSG00000143315	PIGM	37.68446	0.07810166	0.9340081
ENSG00000144895	EIF2A	6512.502011	0.078075397	0.791691848
ENSG00000089486	CDIP1	65.90508156	0.078031324	0.910742737
ENSG00000067560	RHOA	23701.3153	0.077611661	0.781020642
ENSG00000225210	DUXAP9	32.58867	0.07732407	0.937538
ENSG00000117625	RCOR3	705.5077577	0.077221329	0.835600953
ENSG00000145919	BOD1	1377.481297	0.077152904	0.769780355
ENSG00000121060	TRIM25	2010.997567	0.077127017	0.84853765
ENSG00000250519	AP002784.1	4.433428	0.07712558	0.9700299
ENSG00000145740	SLC30A5	3105.705267	0.07696214	0.86734987
ENSG00000101146	RAE1	1405.959918	0.076875816	0.861821552
ENSG00000128915	ICE2	569.85564	0.07675331	0.838127527

ENSG00000129084	PSMA1	374.0657772	0.076739223	0.823068713
ENSG00000159915	ZNF233	8.877542	0.07671287	0.9592653
ENSG00000181885	CLDN7	5116.830654	0.076587016	0.791625261
ENSG00000040933	INPP4A	2147.883771	0.076501603	0.790062036
ENSG00000165934	CPSF2	4133.375104	0.076373616	0.757971677
ENSG00000107485	GATA3	23206.58427	0.076370832	0.824032731
ENSG00000087191	PSMC5	5988.029233	0.076237376	0.794358818
ENSG00000090612	ZNF268	257.4841268	0.076207251	0.867998369
ENSG00000185800	DMWD	395.3612993	0.076149065	0.852920804
ENSG00000234782	TPT1P9	14.33987	0.07596103	0.95247
ENSG00000169084	DHRSX	1108.44206	0.075957195	0.829718505
ENSG00000103647	CORO2B	10.78897	0.07550875	0.9597658
ENSG00000031823	RANBP3	1731.593917	0.07494114	0.787527
ENSG00000278053	DDX52	759.0452825	0.074588448	0.824029169
ENSG00000127922	SEM1	2449.262425	0.074528746	0.808783036
ENSG00000214425	LRRC37A4P	6.288526	0.07450421	0.9713724
ENSG00000196517	SLC6A9	218.6307249	0.074419876	0.924003309
ENSG00000113532	ST8SIA4	2584.807448	0.074350815	0.811417806
ENSG00000171962	DRC3	26.11809	0.07431782	0.9462144
ENSG00000164587	RPS14	33793.85139	0.074195095	0.765297697
ENSG00000260160	AC011468.1	14.78883	0.07392312	0.9557037
ENSG00000198093	ZNF649	347.6540231	0.073599478	0.849189252
ENSG00000165527	ARF6	7241.802619	0.073591042	0.795740422
ENSG00000137563	GGH	1788.692686	0.073395781	0.786701861

ENSG00000176809	LRRC37A3	88.59962142	0.073374946	0.927666056
ENSG00000114316	USP4	1674.836539	0.073133947	0.826584529
ENSG00000148572	NRBF2	3910.397037	0.07292887	0.795492135
ENSG00000179262	RAD23A	3422.6233	0.072925231	0.842749388
ENSG00000198028	ZNF560	98.90014229	0.072689489	0.900584564
ENSG00000140948	ZCCHC14	291.507329	0.072472746	0.833506652
ENSG00000099251	HSD17B7P2	45.18159242	0.072262916	0.927038096
ENSG00000184117	NIPSNAP1	1176.817601	0.072238517	0.902121388
ENSG00000197961	ZNF121	1981.095579	0.072178326	0.780367913
ENSG00000196993	NPIPB9	8.781144	0.07217437	0.9639196
ENSG00000243678	NME2	19.49851	0.07211298	0.9466541
ENSG00000115762	PLEKHB2	7236.869655	0.072025467	0.759992676
ENSG00000100142	POLR2F	2557.53523	0.071814455	0.790400079
ENSG00000184990	SIVA1	1092.348522	0.071795784	0.836005787
ENSG00000176731	RBIS	213.1599587	0.071731283	0.856941438
ENSG00000036549	AC118549.1	829.5112837	0.071495232	0.822697088
ENSG00000235636	NUS1P1	53.98775984	0.071265154	0.91647427
ENSG00000130749	ZC3H4	818.2217801	0.071255659	0.801859137
ENSG00000088356	PDRG1	260.9939195	0.071044147	0.89045143
ENSG00000181634	TNFSF15	4.222281	0.07086088	0.9817144
ENSG00000118096	IFT46	55.7630825	0.070822433	0.926468888
ENSG00000185728	YTHDF3	1765.11204	0.070422169	0.813232927
ENSG00000184007	PTP4A2	14961.50995	0.070400185	0.789332591
ENSG00000198720	ANKRD13B	20.58691	0.07026446	0.9535677

ENSG00000153107	ANAPC1	1625.515538	0.07012257	0.826611392
ENSG00000087448	KLHL42	686.8219695	0.069908606	0.840629349
ENSG00000157540	DYRK1A	2334.586656	0.069626865	0.825109922
ENSG00000204936	CD177	17.43603	0.06954974	0.9502578
ENSG00000224888	AC138028.2	3.810195	0.06954363	0.9774011
ENSG00000139597	N4BP2L1	23.75592	0.06949275	0.9505702
ENSG00000186716	BCR	12461.22732	0.069416189	0.792754384
ENSG00000067182	TNFRSF1A	2623.267485	0.069408683	0.8307581
ENSG00000207973	MIR589	11.32484	0.06938619	0.9588734
ENSG00000109944	JHY	70.55865886	0.069324083	0.925769334
ENSG00000132570	PCBD2	73.57356944	0.069188044	0.925587914
ENSG00000069869	NEDD4	1127.629357	0.068759013	0.855093696
ENSG00000286064	AL035413.2	6.970081	0.0685995	0.9701474
ENSG00000167130	DOLPP1	1331.173805	0.068568069	0.82411074
ENSG00000141971	MVB12A	991.8457089	0.068429357	0.835642819
ENSG00000150712	MTMR12	1275.734138	0.06842005	0.820018683
ENSG00000263272	AC004148.1	32.96632	0.06829563	0.9462749
ENSG00000198799	LRIG2	605.5555053	0.068252368	0.884832704
ENSG00000120805	ARL1	3828.197116	0.068224936	0.799126458
ENSG00000233184	AC093157.1	32.22249	0.06821452	0.937604
ENSG00000159596	TMEM69	1393.636265	0.067994901	0.79911376
ENSG00000260193	LINC02846	49.50969904	0.067706271	0.927069491
ENSG00000164744	SUN3	143.6672606	0.067612677	0.920748704
ENSG00000111786	SRSF9	3683.56217	0.067534776	0.789524637

ENSG00000189266	PNRC2	3733.051089	0.067342854	0.817437364
ENSG00000144791	LIMD1	292.4942135	0.067318711	0.891945607
ENSG00000166925	TSC22D4	1317.854828	0.067177296	0.804864885
ENSG00000100380	ST13	11512.06069	0.066684529	0.78944566
ENSG00000099889	ARVCF	236.667969	0.066622957	0.864261469
ENSG00000173530	TNFRSF10D	96.67200048	0.066599269	0.92030133
ENSG00000117569	PTBP2	89.56563055	0.066576935	0.908275041
ENSG00000130147	SH3BP4	2452.696765	0.066148341	0.806972805
ENSG00000204387	SNHG32	248.7454011	0.066075015	0.869453819
ENSG00000172031	EPHX4	25.46009	0.06604104	0.951248
ENSG00000037637	FBXO42	1580.149279	0.065892035	0.853396033
ENSG00000172493	AFF1	11275.27748	0.065876833	0.870677587
ENSG00000198925	ATG9A	1485.039404	0.065710574	0.882828314
ENSG00000184922	FMNL1	1157.595885	0.065591268	0.850255294
ENSG00000229808	AL391825.1	31.12213	0.06537578	0.9403917
ENSG00000182934	SRPRA	18487.52237	0.065282467	0.802137179
ENSG00000158125	XDH	50.2846983	0.065260187	0.921043898
ENSG00000136826	KLF4	1262.473226	0.065204307	0.866649626
ENSG00000133703	KRAS	3024.489729	0.065034655	0.863083671
ENSG00000158042	MRPL17	1334.913763	0.064866056	0.888173372
ENSG00000277791	PSMB3	5637.782509	0.06486003	0.810910257
ENSG00000120685	PROSER1	8167.138097	0.064852845	0.818191915
ENSG00000005339	CREBBP	2408.83531	0.064710262	0.856262131
ENSG00000117151	CTBS	165.6677626	0.064538133	0.908610337

ENSG00000091164	TXNL1	2497.356347	0.064461374	0.857929187
ENSG00000196547	MAN2A2	1089.634735	0.064449726	0.877566045
ENSG00000156253	RWDD2B	333.573692	0.064445835	0.88546406
ENSG00000231920	NEBL-AS1	6.708056	0.06443098	0.978057
ENSG00000204604	ZNF468	2154.962985	0.064381498	0.884963751
ENSG00000219481	NBPF1	227.777702	0.064070381	0.879468551
ENSG00000236932	CEACAMP8	16.83962	0.06377781	0.964913
ENSG00000117899	MESD	9449.477179	0.063704284	0.812730212
ENSG00000163466	ARPC2	14605.5402	0.063528522	0.803454473
ENSG00000269893	SNHG8	453.9293404	0.063446055	0.866726079
ENSG00000110955	ATP5F1B	38235.9046	0.063095258	0.797424944
ENSG00000229638	RPL4P4	181.5707674	0.063043044	0.894604058
ENSG00000169851	PCDH7	6.12074	0.06276044	0.9769715
ENSG00000197958	RPL12	27307.07208	0.06275026	0.822004562
ENSG00000008394	MGST1	2643.884331	0.062680711	0.851484303
ENSG00000167280	ENGASE	1172.642393	0.062573472	0.864944338
ENSG00000157224	CLDN12	421.7468519	0.062495854	0.876006409
ENSG00000277157	HIST1H4D	5.488215	0.06237025	0.9757676
ENSG00000163870	TPRA1	4507.163207	0.062053959	0.851772801
ENSG00000198356	GET3	3619.562174	0.06197095	0.812317017
ENSG00000116525	TRIM62	165.4919798	0.061945611	0.91078796
ENSG00000102053	ZC3H12B	4.669352	0.06160705	0.9792624
ENSG00000258674	AC011448.1	15.00713	0.06132518	0.9680043
ENSG00000143633	C1orf131	309.7300438	0.061259651	0.891729547

ENSG00000225526	MKRN2OS	29.4533	0.06112904	0.9467787
ENSG00000260051	AL031600.1	15.77959	0.06088531	0.9615512
ENSG00000131187	F12	9.654104	0.06084629	0.9644749
ENSG00000107862	GBF1	6802.733013	0.060249167	0.865488001
ENSG00000256609	AC084880.3	5.245193	0.06005964	0.9746803
ENSG00000121022	COPS5	1221.200795	0.060030765	0.829070202
ENSG00000136867	SLC31A2	28.12972	0.0599661	0.9517979
ENSG00000132740	IGHMBP2	695.4931831	0.059940795	0.846432132
ENSG00000188785	ZNF548	109.9362582	0.059916967	0.914614846
ENSG00000143437	ARNT	3366.275778	0.059915208	0.894911236
ENSG00000065559	MAP2K4	1782.771789	0.05984342	0.824745999
ENSG00000185304	RGPD2	167.9836814	0.059807696	0.886086314
ENSG00000143575	HAX1	2648.078845	0.059643742	0.847981538
ENSG00000151498	ACAD8	512.5627924	0.05949824	0.869758904
ENSG00000234797	RPS3AP6	276.2460362	0.059464164	0.881533557
ENSG00000122512	PMS2	628.7699155	0.05939242	0.836370788
ENSG00000137177	KIF13A	6943.867078	0.059333727	0.867073795
ENSG00000115361	ACADL	7.807411	0.05932069	0.9681709
ENSG00000188760	TMEM198	196.9995103	0.059032178	0.927038096
ENSG00000102265	TIMP1	1485.895197	0.058994052	0.860994018
ENSG00000103194	USP10	7113.87977	0.058517888	0.839645887
ENSG00000070413	DGCR2	1776.73368	0.058442759	0.827503317
ENSG00000107077	KDM4C	907.4865012	0.058435107	0.850387025
ENSG00000103415	HMOX2	1544.876688	0.058248679	0.834673869

ENSG00000213261	EEF1B2P6	15.61717	0.05816535	0.9592653
ENSG00000101150	TPD52L2	7255.546731	0.057988713	0.846749892
ENSG00000121481	RNF2	1732.044781	0.057964634	0.855326044
ENSG00000232060	SLC4A1APP1	7.580455	0.05794316	0.9700719
ENSG00000106803	SEC61B	3177.947493	0.057855415	0.835988144
ENSG00000104835	SARS2	18.84131	0.0576262	0.958668
ENSG00000114423	CBLB	16212.4812	0.0575041	0.856599538
ENSG00000165138	ANKS6	83.07344766	0.057395503	0.925050734
ENSG00000253710	ALG11	581.8651903	0.057351628	0.856310206
ENSG00000087269	NOP14	1714.327109	0.057326955	0.869453819
ENSG00000220848	RPS18P9	43.85251	0.05723254	0.9471991
ENSG00000101138	CSTF1	1700.639996	0.057016812	0.833496359
ENSG00000006459	KDM7A	1067.710779	0.056995949	0.86112286
ENSG00000172845	SP3	4478.613118	0.0568126	0.855178494
ENSG00000226752	CUTALP	78.19625485	0.056721878	0.925498263
ENSG00000153201	RANBP2	5547.687803	0.056437944	0.863881697
ENSG00000048828	FAM120A	16059.90942	0.056180482	0.872291
ENSG00000239388	ASB14	8.561361	0.05609664	0.9700719
ENSG00000100104	SRRD	548.1772242	0.056020472	0.863083671
ENSG00000167281	RBFOX3	11.13354	0.05580594	0.9669661
ENSG00000125347	IRF1	239.7150738	0.05575756	0.904374594
ENSG00000140105	WARS	2498.024865	0.055743874	0.854212478
ENSG00000105063	PPP6R1	3155.472369	0.055701445	0.845204577
ENSG00000224687	RASAL2-AS1	66.94704	0.05555376	0.9413379

ENSG00000104356	POP1	414.1659	0.0554899	0.9363018
ENSG00000143569	UBAP2L	5628.461382	0.055125386	0.84650542
ENSG00000142444	TIMM29	455.4131733	0.054899547	0.89695379
ENSG00000249859	PVT1	292.9178597	0.054746757	0.90129525
ENSG00000173535	TNFRSF10C	411.4969455	0.054714239	0.875440009
ENSG00000205758	CRYZL1	596.4661146	0.054592396	0.900415613
ENSG00000112812	PRSS16	1011.958451	0.054477815	0.86927965
ENSG00000117868	ESYT2	6811.59327	0.054277315	0.846806857
ENSG00000160199	PKNOX1	477.6260932	0.05421071	0.891648019
ENSG00000114742	WDR48	1201.910391	0.054201612	0.877432498
ENSG00000096063	SRPK1	2081.291	0.054152722	0.867426105
ENSG00000219507	FTH1P8	23.57041	0.054146	0.9583107
ENSG00000019995	ZRANB1	2230.020458	0.053964886	0.892580485
ENSG00000183077	AFMID	1038.963576	0.053932286	0.898309502
ENSG00000233017	AL121832.1	5.753701	0.05356444	0.9803144
ENSG00000227398	KIF9-AS1	7.095221	0.05326848	0.9772102
ENSG00000164631	ZNF12	218.5007885	0.053089347	0.909901812
ENSG00000273443	AL645608.8	4.896251	0.05277169	0.9814311
ENSG00000097007	ABL1	1733.42682	0.052669267	0.911605596
ENSG00000169246	NPIPB3	102.0709	0.05264128	0.9394266
ENSG00000226009	KCNIP2-AS1	5.718477	0.05261399	0.9802007
ENSG00000171766	GATM	4.001016	0.05250009	0.9817144
ENSG00000004059	ARF5	2134.651211	0.052430166	0.839935451
ENSG00000177169	ULK1	3151.080778	0.052142964	0.92418615

ENSG00000213694	S1PR3	127.6672	0.05213431	0.9404784
ENSG00000120029	ARMH3	998.4356071	0.051923385	0.85156349
ENSG00000228109	MELTF-AS1	7.193998	0.05189237	0.9750959
ENSG00000023228	NDUFS1	3570.829362	0.051883701	0.862919798
ENSG00000171450	CDK5R2	11.97018	0.05184071	0.9669661
ENSG00000135953	MFSD9	995.6324212	0.051654666	0.880828171
ENSG00000283380	AL807742.1	4.21796	0.05159448	0.9849437
ENSG00000255284	AP006621.3	87.34276	0.05134994	0.9394266
ENSG00000170860	LSM3	1773.711084	0.051270815	0.850523762
ENSG00000233621	LINC01137	59.56518	0.0512034	0.9505702
ENSG00000023287	RB1CC1	1930.854057	0.05091155	0.889054992
ENSG00000126217	MCF2L	31.54205	0.05058337	0.9550081
ENSG00000160753	RUSC1	2853.649022	0.050411503	0.856963896
ENSG00000168092	PAFAH1B2	3171.604015	0.050306975	0.877516403
ENSG00000123700	KCNJ2	107.9621967	0.050259194	0.920820283
ENSG00000179588	ZFPM1	27.10566	0.05022385	0.958668
ENSG00000164327	RICTOR	3133.936904	0.050181062	0.906197572
ENSG00000165417	GTF2A1	1308.940719	0.050004844	0.900584564
ENSG00000278922	AC002310.5	14.12148	0.04996756	0.9671509
ENSG00000105894	PTN	3051.356693	0.04988634	0.921729654
ENSG00000079134	THOC1	706.9190876	0.049840923	0.877208053
ENSG00000229358	DPY19L1P1	11.23282	0.0497896	0.9700655
ENSG00000258011	HMGA1P3	3.772913	0.04973754	0.9849437
ENSG00000136100	VPS36	601.4162	0.049731364	0.891907683

ENSG00000159388	BTG2	2759.557617	0.049547916	0.891525667
ENSG00000127804	METTL16	829.4429116	0.049515876	0.877850853
ENSG00000197822	OCLN	984.8921736	0.049505466	0.887110176
ENSG00000217801	AL390719.1	61.75947	0.04945578	0.9403917
ENSG00000044115	CTNNA1	32387.89845	0.049325352	0.869480615
ENSG00000160190	SLC37A1	2019.234183	0.04906329	0.910107672
ENSG00000130520	LSM4	3256.210129	0.048963657	0.87818015
ENSG00000275835	TUBGCP5	1012.897356	0.048925757	0.902176864
ENSG00000064726	BTBD1	455.5436784	0.048925703	0.892479393
ENSG00000213791	AC104212.2	6.570703	0.04886897	0.978725
ENSG00000161542	PRPSAP1	865.1980028	0.048865155	0.878449156
ENSG00000127419	TMEM175	404.1507547	0.048837098	0.892042963
ENSG00000136770	DNAJC1	2217.41725	0.048704089	0.877831518
ENSG00000284669	AC092053.3	19.00493	0.04856397	0.9638841
ENSG00000185864	NPIPB4	218.6315192	0.048451683	0.930381575
ENSG00000225420	AC104134.1	13.76797	0.04816956	0.9676786
ENSG00000137767	SQOR	11.66136	0.04793638	0.9707709
ENSG00000196323	ZBTB44	519.4038292	0.047363022	0.900421707
ENSG00000188486	H2AFX	2263.79731	0.047356779	0.91517293
ENSG00000244462	RBM12	2454.797851	0.047321097	0.865985627
ENSG00000138660	AP1AR	310.0777934	0.047306338	0.898834773
ENSG00000184708	EIF4ENIF1	324.8498145	0.047096594	0.894004064
ENSG00000170889	RPS9	17591.82701	0.046911245	0.846043741
ENSG00000132463	GRSF1	2454.575612	0.046842319	0.85962231

ENSG00000185896	LAMP1	15339.59802	0.046455985	0.869453819
ENSG00000165355	FBXO33	652.9230217	0.046316502	0.898594771
ENSG00000110011	DNAJC4	228.0296462	0.046287853	0.913727839
ENSG00000105953	OGDH	7348.11476	0.046175206	0.894971216
ENSG00000260853	AC109460.2	52.92335	0.0459995	0.9480972
ENSG00000187860	CCDC157	26.18294	0.04593538	0.9633949
ENSG00000198752	CDC42BPB	4086.514492	0.045724653	0.926158128
ENSG00000088448	ANKRD10	2583.222265	0.045369404	0.916407093
ENSG00000055147	FAM114A2	547.4725682	0.045101519	0.900584564
ENSG00000143079	CTTNBP2NL	672.8736045	0.044697762	0.901407456
ENSG00000168830	HTR1E	6.387606	0.04467978	0.9834623
ENSG00000169203	NPIPB12	9.240339	0.04459969	0.9763971
ENSG00000110700	RPS13	16311.87985	0.044414597	0.874328237
ENSG00000278845	MRPL45	1987.840771	0.044347777	0.862565231
ENSG00000126903	SLC10A3	2541.34076	0.04429323	0.880571294
ENSG00000258441	LINC00641	110.4838	0.0441491	0.9414493
ENSG00000273142	LINC02604	105.1449	0.04406756	0.9347365
ENSG00000182107	TMEM30B	451.2195	0.04404089	0.9347557
ENSG00000130935	NOL11	2078.425604	0.044032285	0.88928716
ENSG00000170315	UBB	10533.56652	0.043961551	0.868116232
ENSG00000232187	FTH1P7	16.12831	0.04375505	0.9669661
ENSG00000077454	LRCH4	523.0653962	0.043743606	0.901251066
ENSG00000287818	AL512283.3	5.35373	0.04354548	0.9807311
ENSG00000119640	ACYP1	548.8176735	0.043516112	0.893760292

ENSG00000171204	TMEM126B	485.9269491	0.043464033	0.894371508
ENSG00000232811	AL360270.1	37.96805	0.0433361	0.9577598
ENSG00000184502	GAST	332.0243	0.04333306	0.9332583
ENSG00000087470	DNM1L	9402.008625	0.043133971	0.869758904
ENSG00000174938	SEZ6L2	68.12625	0.04307339	0.9462749
ENSG00000130511	SSBP4	752.0461836	0.04297928	0.889716067
ENSG00000006757	PNPLA4	188.7081615	0.042947313	0.925928729
ENSG00000181555	SETD2	1451.349943	0.042937481	0.903450637
ENSG00000139746	RBM26	1666.208326	0.042759369	0.891005731
ENSG00000275074	NUDT18	58.01399	0.04271437	0.9548351
ENSG00000157014	TATDN2	357.603353	0.04263914	0.909901812
ENSG00000177853	ZNF518A	701.2842271	0.042631612	0.910288351
ENSG00000164062	APEH	5525.270467	0.042435938	0.892825855
ENSG00000177076	ACER2	1957.72022	0.042263993	0.896297616
ENSG00000137801	THBS1	176.7604	0.042061	0.9394266
ENSG00000272902	TBC1D8-AS1	12.58054	0.04174401	0.9737545
ENSG00000275880	AL139385.1	15.30194	0.04172269	0.9713027
ENSG00000152492	CCDC50	676.4182091	0.041628156	0.903466027
ENSG00000119979	DENND10	1769.296593	0.041619966	0.925928729
ENSG00000118242	MREG	1679.240258	0.041356268	0.914091725
ENSG00000247240	UBL7-AS1	229.1336007	0.041316325	0.925728501
ENSG00000092108	SCFD1	2942.159947	0.04116553	0.880191821
ENSG00000185730	ZNF696	111.3239	0.04111229	0.9427163
ENSG00000131503	ANKHD1	51.3522	0.04074498	0.9555481

ENSG00000130958	SLC35D2	253.6052493	0.040727963	0.91517293
ENSG00000100296	THOC5	1869.971324	0.040657926	0.886443056
ENSG00000135093	USP30	261.6620963	0.040633688	0.918054567
ENSG00000180104	EXOC3	1589.730365	0.040500136	0.894715105
ENSG00000134809	TIMM10	654.2669977	0.040385234	0.93031748
ENSG00000149262	INTS4	1263.963089	0.040167806	0.891580131
ENSG00000126775	ATG14	836.2680047	0.040105757	0.899667209
ENSG00000159164	SV2A	19.24216	0.04001568	0.9685946
ENSG00000168405	CMAHP	1721.450907	0.039988198	0.8931215
ENSG00000019485	PRDM11	8.551686	0.0397937	0.9827654
ENSG00000242372	EIF6	2948.183145	0.039668465	0.893279574
ENSG00000141985	SH3GL1	4160.743937	0.039553675	0.901260554
ENSG00000110328	GALNT18	15.1463	0.03888598	0.9722814
ENSG00000204577	LILRB3	15.0307	0.03878755	0.976152
ENSG00000214783	POLR2J4	13.59146	0.03869634	0.9746801
ENSG00000168427	KLHL30	18.47316	0.03860374	0.9713724
ENSG00000204262	COL5A2	134.0899	0.03840226	0.9462144
ENSG00000149657	LSM14B	1588.940682	0.038259667	0.898834773
ENSG00000155066	PROM2	3745.218306	0.038234976	0.892714527
ENSG00000103653	CSK	1016.912717	0.038051532	0.901151388
ENSG00000121274	TENT4B	950.3489476	0.03802516	0.913033281
ENSG00000184752	NDUFA12	1630.899976	0.03792906	0.917051765
ENSG00000084733	RAB10	5426.774113	0.037858127	0.90129525
ENSG00000177565	TBL1XR1	1667.827895	0.037617392	0.918054567

ENSG00000125746	EML2	3810.023	0.03761265	0.9693762
ENSG00000214655	ZSWIM8	2897.79837	0.037509114	0.92032849
ENSG00000182504	CEP97	213.4545	0.03715935	0.9418564
ENSG00000164649	CDCA7L	19.4595	0.03689635	0.969743
ENSG00000163156	SCNM1	1277.265106	0.036280305	0.927038096
ENSG00000142910	TINAGL1	19570.7173	0.036189987	0.896338064
ENSG00000116209	TMEM59	4461.299401	0.035991797	0.909564839
ENSG00000111667	USP5	4181.15584	0.03597527	0.893574225
ENSG00000204130	RUFY2	339.3059503	0.035974708	0.932166629
ENSG00000142632	ARHGEF19	88.00245	0.03581221	0.9520521
ENSG00000119707	RBM25	5121.565439	0.03577353	0.913902509
ENSG00000254332	AF201337.1	12.48871	0.03557441	0.9780226
ENSG00000164442	CITED2	5372.959818	0.035447755	0.922381775
ENSG00000124193	SRSF6	2348.826	0.03540939	0.9444342
ENSG00000143870	PDIA6	28874.84759	0.035339792	0.906637352
ENSG00000261229	AC021483.2	4.487457	0.03518391	0.986434
ENSG00000137500	CCDC90B	592.5715862	0.03517003	0.925728501
ENSG00000167548	KMT2D	2730.996	0.03508617	0.9381369
ENSG00000103152	MPG	381.0205	0.03492574	0.9328151
ENSG00000123159	GIPC1	1755.900552	0.034924615	0.913165164
ENSG00000125787	GNRH2	36.28331	0.03483771	0.9654787
ENSG00000108828	VAT1	13249.74474	0.034763498	0.900645595
ENSG00000185621	LMLN	48.62415	0.03463313	0.9598726
ENSG00000205937	RNPS1	5106.145611	0.034592724	0.892285641

ENSG00000147894	C9orf72	357.2866	0.03456078	0.9516999
ENSG00000224843	LINC00240	10.56586	0.03446239	0.9790253
ENSG00000180228	PRKRA	600.3819	0.03440576	0.9399174
ENSG00000156482	RPL30	8021.801822	0.034131014	0.902958067
ENSG00000253224	PGAM5P1	8.151244	0.03408109	0.9853199
ENSG00000126267	COX6B1	3927.366664	0.033989919	0.907100208
ENSG00000079432	CIC	1146.417	0.03398314	0.9398611
ENSG00000042429	MED17	67.40703	0.03394593	0.9599451
ENSG00000185869	ZNF829	287.7148	0.03389424	0.9418622
ENSG00000229951	AC104695.2	14.02249	0.03386407	0.9778923
ENSG00000100077	GRK3	1287.902482	0.033768637	0.916477395
ENSG00000109670	FBXW7	957.9857526	0.033662615	0.922425947
ENSG00000117143	UAP1	6749.548831	0.033613723	0.914505559
ENSG00000166479	TMX3	627.4201996	0.033448696	0.9167185
ENSG00000127955	GNAI1	5929.873968	0.033296175	0.928520565
ENSG00000103199	ZNF500	191.4122	0.03326326	0.9468312
ENSG00000249936	RAC1P2	64.39053	0.03311938	0.9594574
ENSG00000116747	RO60	473.906858	0.033082211	0.926158128
ENSG00000133216	EPHB2	15.94533	0.03305131	0.9757215
ENSG00000066427	ATXN3	610.6194599	0.032953465	0.924319471
ENSG00000112308	C6orf62	5498.626062	0.032615088	0.907302498
ENSG00000173482	PTPRM	4817.636	0.03227064	0.937604
ENSG00000124784	RIOK1	1016.302669	0.032214977	0.9277078
ENSG00000156873	PHKG2	2161.458	0.03213299	0.9444342

ENSG00000153132	CLGN	7.647821	0.03176667	0.984386
ENSG00000135624	CCT7	10918.31724	0.031651192	0.906304752
ENSG00000115364	MRPL19	1278.280469	0.031606342	0.919532518
ENSG00000158022	TRIM63	24.83283	0.03154559	0.9763971
ENSG00000264859	DSG2-AS1	9.395486	0.03134483	0.985419
ENSG00000206560	ANKRD28	980.2802	0.03130782	0.9359776
ENSG00000136247	ZDHHC4	457.3851	0.03122043	0.9425023
ENSG00000101888	NXT2	751.5806	0.03089437	0.9367875
ENSG00000226861	AL390835.1	14.66867	0.03076525	0.9809196
ENSG00000113456	RAD1	1698.781608	0.030694285	0.922434605
ENSG00000257267	ZNF271P	286.3887	0.03066885	0.9363018
ENSG00000148396	SEC16A	7387.062	0.03066712	0.9396699
ENSG00000180376	CCDC66	484.536705	0.030465392	0.926144206
ENSG00000183255	PTTG1IP	7413.624743	0.030456733	0.91107494
ENSG00000233854	POU6F2-AS2	7.496183	0.03041459	0.9854574
ENSG00000183655	KLHL25	151.4892	0.03028031	0.9555481
ENSG00000182108	DEXI	40.98289	0.03023202	0.9697282
ENSG00000104231	ZFAND1	668.2189	0.03008563	0.9361944
ENSG00000116514	RNF19B	1359.048485	0.030016291	0.924175764
ENSG00000075415	SLC25A3	19224.84213	0.029940886	0.912793947
ENSG00000131873	CHSY1	3158.69	0.02992897	0.9592653
ENSG00000238083	LRRC37A2	168.0325	0.02987484	0.9427163
ENSG00000157349	DDX19B	617.9689602	0.029864932	0.928589053
ENSG00000106263	EIF3B	20370.41	0.02978231	0.9382184

ENSG00000256594	AC010186.2	23.73602	0.02963751	0.9752959
ENSG00000198755	RPL10A	22630.36255	0.029554416	0.919794271
ENSG00000176994	SMCR8	2711.031677	0.02954331	0.928078554
ENSG00000072756	TRNT1	282.4541	0.02920918	0.9426215
ENSG00000100926	TM9SF1	165.5223	0.02913825	0.9577598
ENSG00000162944	RFTN2	9.94729	0.02911355	0.984864
ENSG00000204590	GNL1	4177.823655	0.029087675	0.928540917
ENSG00000138286	FAM149B1	602.8284	0.02905704	0.9413379
ENSG00000241258	CRCP	824.817333	0.0290524	0.924209682
ENSG00000135482	ZC3H10	104.4831	0.02886394	0.9569832
ENSG00000237493	AC034102.1	5.095809	0.0287806	0.9884545
ENSG00000213231	TCL1B	959.8576	0.02850417	0.9413379
ENSG00000226180	AC010536.1	8.182248	0.02847785	0.9889842
ENSG00000168216	LMBRD1	1709.314	0.02812459	0.9413379
ENSG00000108654	DDX5	19079.24	0.02800754	0.935455
ENSG00000214827	MTCP1	10.24628	0.02789426	0.9830068
ENSG00000180581	SRP9P1	23.43774	0.02776814	0.9766382
ENSG00000183340	JRKL	167.2089	0.0276491	0.9570323
ENSG00000011009	LYPLA2	3359.261753	0.027594686	0.925769334
ENSG00000187944	C2orf66	46.77146	0.02755611	0.9683644
ENSG00000087338	GMCL1	1199.087	0.02752981	0.9558286
ENSG00000162836	ACP6	216.0543	0.02745479	0.9607478
ENSG00000066027	PPP2R5A	1276.107	0.02735924	0.9505702
ENSG00000088256	GNA11	3853.481455	0.027164255	0.928889899

ENSG00000284976	BX255925.3	356.384	0.02709702	0.9505702
ENSG00000143420	ENSA	8908.11248	0.026829358	0.923492343
ENSG00000164023	SGMS2	142.5155	0.0267823	0.9581155
ENSG00000163528	CHCHD4	556.5208	0.02677249	0.9431363
ENSG00000255121	CCDC84-DT	53.65287	0.02677011	0.967573
ENSG00000196391	ZNF774	111.1106	0.02670968	0.9592653
ENSG00000128585	MKLN1	1013.914	0.02667953	0.937298
ENSG00000087502	ERGIC2	2062.161178	0.026641295	0.921411316
ENSG00000140650	PMM2	927.7735	0.02661502	0.9456949
ENSG00000119777	TMEM214	12244.92	0.02647847	0.9340081
ENSG00000166454	ATMIN	5469.360361	0.026215315	0.925050734
ENSG00000187678	SPRY4	3430.248	0.02598305	0.9547577
ENSG00000181523	SGSH	838.8401	0.02594775	0.9378176
ENSG00000226287	TMEM191A	77.89844	0.02568465	0.9654787
ENSG00000100181	TPTEP1	531.4036	0.02568282	0.9576427
ENSG00000197885	NKIRAS1	507.1175	0.02543099	0.9497862
ENSG00000127947	PTPN12	9385.959	0.02535946	0.9340081
ENSG00000131381	RBSN	1324.827	0.0252967	0.9340081
ENSG00000135931	ARMC9	308.2275	0.02483163	0.9492553
ENSG00000164010	ERMAP	38.03185	0.02470036	0.9782345
ENSG00000106302	HYAL4	185.0186	0.02456693	0.9664663
ENSG00000111669	TPI1	23796.38	0.0244599	0.9361725
ENSG00000234753	FOXP4-AS1	6.15525	0.02421104	0.9905545
ENSG00000170515	PA2G4	6129.825	0.02419605	0.9417601

ENSG00000128654	MTX2	936.7265	0.02407632	0.9516703
ENSG00000173531	MST1	167.901	0.02407175	0.9631589
ENSG00000198646	NCOA6	2583.102	0.02404843	0.9516703
ENSG00000113460	BRIX1	2214.305	0.02384601	0.942615
ENSG00000198546	ZNF511	126.7166	0.02357923	0.9654787
ENSG00000168288	MMADHC	4616.799	0.0234907	0.9434618
ENSG00000124380	SNRNP27	802.552	0.02338498	0.9485288
ENSG00000184381	PLA2G6	173.4398	0.02326733	0.9644749
ENSG00000110619	CARS	5741.871	0.0231947	0.9340169
ENSG00000241015	TPM3P9	331.8326	0.02314816	0.9540809
ENSG00000221914	PPP2R2A	3898.878	0.0229383	0.9492094
ENSG00000099904	ZDHHC8	730.7961	0.02288943	0.9401907
ENSG00000119421	NDUFA8	1022.872	0.02283313	0.9490022
ENSG00000137210	TMEM14B	960.5994	0.02277743	0.9516703
ENSG00000162616	DNAJB4	761.9915	0.02276037	0.9462144
ENSG00000124486	USP9X	7020.046	0.02243331	0.9527866
ENSG00000172057	ORMDL3	1321.626	0.02228271	0.9426476
ENSG00000071243	ING3	292.4686	0.02223526	0.9600085
ENSG00000280285	AC108215.1	17.63701	0.02220326	0.9847496
ENSG00000172073	TEX37	197.7154	0.02216357	0.958668
ENSG00000124098	FAM210B	966.9182	0.02202775	0.9468054
ENSG00000234745	HLA-B	394.1153	0.02202536	0.9712621
ENSG00000171475	WIPF2	3632.543	0.02183003	0.9480321
ENSG00000220842	RPL21P16	147.0833	0.0215741	0.9607478

ENSG00000165675	ENOX2	247.8398	0.02156616	0.9576427
ENSG00000152749	GPR180	577.5164	0.02149008	0.9656804
ENSG00000108406	DHX40	1346.705	0.02141247	0.9403687
ENSG00000242086	MUC20-OT1	310.3385	0.02113644	0.958668
ENSG00000125656	CLPP	1190.784	0.02111949	0.9522157
ENSG00000010810	FYN	6704.881	0.02089215	0.9574918
ENSG00000089009	RPL6	35723.52	0.02085895	0.937973
ENSG00000062370	ZNF112	29.15777	0.02077269	0.9843666
ENSG00000250896	RNPS1P1	5.547948	0.02067654	0.9905872
ENSG00000232774	AL355916.1	31.66553	0.02058651	0.9792624
ENSG00000182749	PAQR7	933.9671	0.02040414	0.9527866
ENSG00000154727	GABPA	1134.359	0.02033651	0.9502254
ENSG00000146731	CCT6A	12757.55	0.02023629	0.944737
ENSG00000139636	LMBR1L	1916.408	0.02008368	0.9560294
ENSG00000197808	ZNF461	221.4588	0.02001395	0.9654787
ENSG00000018699	TTC27	1357.266	0.01982575	0.944127
ENSG00000162998	FRZB	16.73618	0.01978446	0.9853199
ENSG00000148925	BTBD10	3543.965	0.01978073	0.9471991
ENSG00000188070	C11orf95	343.5189	0.0196448	0.9697282
ENSG00000168002	POLR2G	2216.682	0.01944458	0.9520521
ENSG00000012232	EXTL3	2286.348	0.01903035	0.9577598
ENSG00000132792	CTNNBL1	2000.702	0.01900185	0.9540809
ENSG00000116691	MIIP	3222.785	0.01880838	0.9670941
ENSG00000171466	ZNF562	1439.767	0.01880409	0.9540809

ENSG00000167470	MIDN	5617.095	0.01879021	0.9527866
ENSG00000111540	RAB5B	12378.9	0.0187525	0.9574186
ENSG00000119720	NRDE2	687.4109	0.01855621	0.9563598
ENSG00000122958	VPS26A	4548.772	0.01849775	0.9468046
ENSG00000181852	RNF41	1555.536	0.01818713	0.9583476
ENSG00000177674	AGTRAP	641.2125	0.01814971	0.9615153
ENSG00000198252	STYX	923.8867	0.01805742	0.9659455
ENSG00000198026	ZNF335	1610.783	0.01801975	0.9574186
ENSG00000141519	CCDC40	16.49634	0.01801504	0.9890835
ENSG00000101126	ADNP	3742.574	0.01798909	0.9532163
ENSG00000131788	PIAS3	426.6316	0.01794479	0.9654787
ENSG00000247556	OIP5-AS1	2575.127	0.01716315	0.9763971
ENSG00000232485	AC098820.1	12.0309	0.01700627	0.9900865
ENSG00000151208	DLG5	17342.6	0.01699005	0.9562967
ENSG00000099968	BCL2L13	2615.093	0.01689645	0.9633949
ENSG00000155287	SLC25A28	987.1469	0.01648986	0.9574186
ENSG00000164008	C1orf50	18.46762	0.01643023	0.9888583
ENSG00000065485	PDIA5	4211.65	0.01642051	0.962478
ENSG00000250256	AC108112.1	12.72834	0.01602474	0.9897122
ENSG00000100330	MTMR3	156.8922	0.01595834	0.9700655
ENSG00000271369	AC087783.1	58.52622	0.0159014	0.9798282
ENSG00000109171	SLAIN2	5311.252	0.01583786	0.9592653
ENSG00000168477	TNXB	193.226	0.01581547	0.9912405
ENSG00000142227	EMP3	37.29338	0.01551612	0.9847833

ENSG00000111725	PRKAB1	821.9379	0.0155112	0.958668
ENSG00000141084	RANBP10	1776.224	0.01543899	0.9563019
ENSG00000126457	PRMT1	5373.058	0.01540966	0.9565758
ENSG00000162623	TYW3	387.2057	0.01528717	0.9666093
ENSG00000136425	CIB2	319.3676	0.01508668	0.9653883
ENSG00000188042	ARL4C	12165.27	0.0150862	0.9689892
ENSG00000231767	AL136454.1	15.7105	0.01500781	0.9893112
ENSG00000144840	RABL3	341.004	0.01500354	0.9654787
ENSG00000161654	LSM12	1946.781	0.01496196	0.9608629
ENSG00000083845	RPS5	20447.94	0.01481277	0.9548351
ENSG00000256223	ZNF10	87.72753	0.01477999	0.98222
ENSG00000117472	TSPAN1	70.13933	0.01466021	0.9825728
ENSG00000172799	ZBTB8OSP2	15.97678	0.01453987	0.9892131
ENSG00000163083	INHBB	26.98555	0.01427083	0.990266
ENSG00000215041	NEURL4	1156.331	0.01401131	0.9669661
ENSG00000110844	PRPF40B	118.432	0.01316859	0.983978
ENSG00000107669	ATE1	935.5974	0.01313882	0.9688019
ENSG00000100813	ACIN1	7444.417	0.01313446	0.9716427
ENSG00000142192	APP	24107.29	0.01309745	0.9654787
ENSG00000204315	FKBPL	599.1716	0.01309528	0.9763971
ENSG00000091127	PUS7	687.8207	0.01299151	0.9680043
ENSG00000218426	AL590867.2	289.8734	0.01295926	0.9713724
ENSG00000122557	HERPUD2	1068.844	0.01289158	0.97059
ENSG00000186625	KATNA1	254.8024	0.01278608	0.9712597

ENSG00000171497	PPID	811.29	0.01268658	0.9683431
ENSG00000152315	KCNK13	215.5718	0.01262684	0.9923455
ENSG00000177000	MTHFR	695.9269	0.01253747	0.9837533
ENSG00000145736	GTF2H2	102.0471	0.01240589	0.9808367
ENSG00000233830	EIF4HP1	63.33212	0.01224661	0.9836468
ENSG00000162585	FAAP20	444.9092	0.01206801	0.9700719
ENSG00000153786	ZDHHC7	3314.175	0.01205518	0.967532
ENSG00000188916	INSYN2A	8.420744	0.01201711	0.9934739
ENSG00000228903	RASA4CP	38.81821	0.01199354	0.9905872
ENSG00000134014	ELP3	762.7614	0.01188038	0.9673341
ENSG00000127445	PIN1	826.2132	0.01172025	0.9700719
ENSG00000196313	POM121	1946.776	0.01163817	0.9713724
ENSG00000260698	AL591848.3	12.29185	0.01162831	0.9943355
ENSG00000107951	MTPAP	636.548	0.01153295	0.9702659
ENSG00000144597	EAF1	2058.94	0.01150766	0.9722814
ENSG00000185787	MORF4L1	11722.29	0.01143779	0.9720816
ENSG00000179889	PDXDC1	7613.764	0.0114364	0.9746801
ENSG00000188529	SRSF10	2031.413	0.01099324	0.9661138
ENSG00000035862	TIMP2	3415.474	0.01097827	0.97674
ENSG00000075426	FOSL2	3314.069	0.01075952	0.9700719
ENSG00000107566	ERLIN1	3068.984	0.01070668	0.9722814
ENSG00000138190	EXOC6	560.5537	0.01064631	0.9712597
ENSG00000039319	ZFYVE16	1316.51	0.01064084	0.9751878
ENSG00000101255	TRIB3	3021.848	0.01041301	0.9811922

ENSG00000172239	PAIP1	1594.778	0.009917411	0.9719974
ENSG00000148634	HERC4	1519.917	0.00990048	0.9754323
ENSG00000126883	NUP214	1971.944	0.009887096	0.9717364
ENSG00000151239	TWF1	4037.343	0.009853109	0.9747118
ENSG00000125977	EIF2S2	17921.75	0.009825431	0.968956
ENSG00000115685	PPP1R7	1618.667	0.009780686	0.9700655
ENSG00000129195	PIMREG	20.34023	0.009553239	0.9932036
ENSG00000142623	PADI1	70.68942	0.009509164	0.9891349
ENSG00000135317	SNX14	4356.309	0.009422392	0.9784976
ENSG00000198952	SMG5	4803.272	0.00931665	0.9780226
ENSG00000204560	DHX16	2992.305	0.009101951	0.9717416
ENSG00000111846	GCNT2	685.2119	0.009012046	0.985419
ENSG00000174173	TRMT10C	707.7726	0.008950814	0.9809196
ENSG00000198612	COPS8	761.6563	0.008947732	0.979696
ENSG00000143727	ACP1	3280.777	0.008901844	0.9713724
ENSG00000265808	SEC22B	4493.829	0.008761556	0.9765942
ENSG00000016082	ISL1	72.02743	0.008656244	0.9892587
ENSG00000101935	AMMECR1	3035.923	0.008631179	0.9809196
ENSG00000135269	TES	3594.462	0.008628179	0.9777055
ENSG00000137818	RPLP1	20620.83	0.008193335	0.9746446
ENSG00000169188	APEX2	1639.657	0.008114574	0.9790057
ENSG00000228409	CCT6P1	97.63965	0.00805564	0.9891886
ENSG00000185414	MRPL30	612.3174	0.007988088	0.9803144
ENSG00000178917	ZNF852	44.59341	0.007952516	0.9923641

ENSG00000254505	CHMP4A	8.283887	0.007929842	0.995906
ENSG00000109854	HTATIP2	2015.834	0.007760555	0.9758605
ENSG00000257285	AL132780.1	12.49458	0.007732422	0.9952605
ENSG00000068654	POLR1A	2167.119	0.007703375	0.9811922
ENSG00000088543	C3orf18	6.722237	0.007645912	0.9978817
ENSG00000171103	TRMT61B	294.4181	0.007644953	0.984864
ENSG00000069345	DNAJA2	6651.381	0.007529872	0.9765942
ENSG00000132256	TRIM5	1125.666	0.007506121	0.982124
ENSG00000180155	LYNX1	314.0031	0.007442139	0.9848426
ENSG00000158092	NCK1	1564.486	0.007405553	0.9857929
ENSG00000279605	AC067930.5	7.999177	0.007384329	0.9970241
ENSG00000164818	DNAAF5	568.0537	0.006958616	0.986434
ENSG00000160055	TMEM234	106.2436	0.006888084	0.9924319
ENSG00000123146	ADGRE5	1305.806	0.006683994	0.9844907
ENSG00000118523	CCN2	45.40893	0.006460824	0.9937289
ENSG00000267470	ZNF571-AS1	19.17751	0.006356088	0.9952605
ENSG00000104805	NUCB1	4757.305	0.006151372	0.984864
ENSG00000111412	C12orf49	2176.15	0.005934643	0.9864775
ENSG00000114790	ARHGEF26	54.23822	0.005915543	0.9939723
ENSG00000240449	AC005586.1	21.39042	0.005843899	0.995906
ENSG00000138760	SCARB2	4566.569	0.005810139	0.9851162
ENSG00000246922	UBAP1L	26.34065	0.005792061	0.9950375
ENSG00000006016	CRLF1	84.45472	0.005747938	0.9912405
ENSG00000113615	SEC24A	5942.836	0.005711845	0.9895735

ENSG00000228782	MRPL45P2	95.73596	0.005308248	0.9934739
ENSG00000287601	BX323046.2	4.554443	0.005037668	0.9986148
ENSG00000176209	SMIM19	281.8345	0.004884627	0.9923455
ENSG00000116473	RAP1A	1423.472	0.004363841	0.9903596
ENSG00000131732	ZCCHC9	1678.784	0.004280079	0.988745
ENSG00000255298	OR8G5	8.897067	0.003796832	0.9986321
ENSG00000273038	AL365203.2	49.80724	0.003510911	0.9969618
ENSG00000228559	AL033519.4	306.5993	0.003450846	0.9953429
ENSG00000184056	VPS33B	82.62587	0.003296266	0.9959163
ENSG00000248593	DSTNP2	22.21943	0.003041649	0.9980359
ENSG00000213860	RPL21P75	17.99155	0.002996893	0.9980466
ENSG00000161981	SNRNP25	868.3602	0.00286687	0.993712
ENSG00000225434	LINC01504	12.29538	0.002667853	0.998677
ENSG00000111875	ASF1A	991.8963	0.002651526	0.9940282
ENSG00000215788	TNFRSF25	58.94141	0.002612956	0.9978817
ENSG00000137834	SMAD6	118.0165	0.002526415	0.9965734
ENSG00000119953	SMNDC1	1368.315	0.002378755	0.993712
ENSG00000272888	LINC01578	509.7463	0.002288431	0.9957809
ENSG00000214855	APOC1P1	18.20477	0.001912407	0.9991983
ENSG00000200502	Y_RNA	10.87843	0.001853413	0.9993901
ENSG00000004455	AK2	4855.039	0.00143004	0.995906
ENSG00000227070	AC104170.1	5.949701	0.001302892	0.9996684
ENSG00000113068	PFDN1	1758.172	0.001287451	0.9975425
ENSG00000175287	PHYHD1	81.81998	0.001083628	0.9992543

ENSG00000215388	ACTG1P3	6.943816	0.001065318	0.9996684
ENSG00000198231	DDX42	4149.156	0.000953921	0.9976715
ENSG00000198794	SCAMP5	29.67944	0.000851126	0.9996684
ENSG00000172809	RPL38	7589.866	0.000724548	0.9980359
ENSG00000183625	CCR3	36.6295	0.000550142	0.9996684
ENSG00000130653	PNPLA7	11.53078	0.000499177	0.9996727
ENSG00000177685	CRACR2B	209.4064	0.000468988	0.9993743
ENSG00000186260	MRTFB	715.5806	0.000451073	0.9991983
ENSG00000163904	SENP2	2557.811	0.000324407	0.9993743
ENSG00000011566	MAP4K3	1152.522	0.000288188	0.9996684
ENSG00000125482	TTF1	546.5647	0.000165108	0.9996684
ENSG00000262296	AC118755.1	21.22674	-0.00012616	0.9998592
ENSG00000170876	TMEM43	1019.153	-0.000159496	0.9996698
ENSG00000170248	PDCD6IP	6495.71	-0.000168555	0.9996684
ENSG00000262152	LINC00514	16.55435	-0.00018701	0.9998584
ENSG00000271218	AL033384.2	20.37239	-0.000341683	0.9996746
ENSG00000166025	AMOTL1	5817.475	-0.000672406	0.9992543
ENSG00000176928	GCNT4	6.096621	-0.000808305	0.9996727
ENSG00000196422	PPP1R26	97.86258	-0.000812581	0.9993743
ENSG00000121766	ZCCHC17	806.9764	-0.000828789	0.9980359
ENSG00000115274	INO80B	7.029817	-0.000908909	0.9996684
ENSG00000119616	FCF1	975.2768	-0.00096404	0.9977644
ENSG00000166200	COPS2	3247.881	-0.001012591	0.9975388
ENSG00000186868	MAPT	9.488271	-0.001036539	0.9996684

ENSG00000187866	FAM122A	121.7373	-0.001142171	0.9987545
ENSG00000136720	HS6ST1	4970.207	-0.001470993	0.9975276
ENSG00000175220	ARHGAP1	2764.573	-0.001566377	0.995906
ENSG00000143257	NR1I3	23.32528	-0.001757907	0.999041
ENSG00000182307	C8orf33	507.3118	-0.002037834	0.9957809
ENSG00000160180	TFF3	78.64978	-0.002069175	0.9977644
ENSG00000011114	BTBD7	1624.539	-0.002169591	0.9957809
ENSG00000144445	KANSL1L	49.29007	-0.002283976	0.9978817
ENSG00000173209	AHSA2P	844.4216	-0.002329731	0.9960222
ENSG00000157470	FAM81A	19.37372	-0.00253622	0.9984612
ENSG00000197223	C1D	477.9187	-0.002586377	0.9941707
ENSG00000244486	SCARF2	111.3628	-0.0028239	0.995906
ENSG00000070423	RNF126	1952.116	-0.003141933	0.9922804
ENSG00000174791	RIN1	192.6291	-0.003257795	0.9970819
ENSG00000151353	TMEM18	383.0146	-0.003274107	0.9924955
ENSG00000138303	ASCC1	550.5703	-0.003274304	0.9932517
ENSG00000279277	AC012020.1	6.349773	-0.003743278	0.998677
ENSG00000011143	MKS1	221.4362	-0.003812351	0.9936484
ENSG00000078369	GNB1	6419.525	-0.003895524	0.9890723
ENSG00000173875	ZNF791	745.9419	-0.003935513	0.9918258
ENSG00000130363	RSPH3	201.8567	-0.004057725	0.9929888
ENSG00000064012	CASP8	278.09	-0.004094824	0.9923455
ENSG00000279382	AC018665.1	13.16501	-0.004187222	0.9980359
ENSG00000168259	DNAJC7	3291.221	-0.004211449	0.9895735

ENSG00000054118	THRAP3	5912.258	-0.004494939	0.9892283
ENSG00000198939	ZFP2	18.77375	-0.004669789	0.9976715
ENSG00000103326	CAPN15	728.7658	-0.004674611	0.9890835
ENSG00000188215	DCUN1D3	316.4338	-0.004708495	0.9911607
ENSG00000120278	PLEKHG1	454.073	-0.005251112	0.990266
ENSG00000114127	XRN1	1444.947	-0.005588655	0.9889842
ENSG00000166676	TVP23A	26.67028	-0.005647003	0.995906
ENSG00000233221	AC133785.1	5.432714	-0.005718235	0.9978817
ENSG00000132394	EEFSEC	646.8471	-0.005801122	0.985419
ENSG00000179348	GATA2	36705.37	-0.0059866	0.982124
ENSG00000107371	EXOSC3	519.3871	-0.006006158	0.9891164
ENSG00000121486	TRMT1L	438.8708	-0.00611935	0.9871358
ENSG00000164654	MIOS	1615.829	-0.006496311	0.9817144
ENSG00000124783	SSR1	11776.2	-0.006508189	0.9812981
ENSG00000131437	KIF3A	164.3027	-0.006626646	0.9903102
ENSG00000049860	HEXB	6550.265	-0.006824745	0.9778923
ENSG00000055208	TAB2	3422.859	-0.007021629	0.9817144
ENSG00000243660	ZNF487	144.1741	-0.007105696	0.9858558
ENSG00000102144	PGK1	13469.75	-0.007174256	0.978725
ENSG00000135211	TMEM60	285.4168	-0.007194388	0.985419
ENSG00000174282	ZBTB4	1491.864	-0.007220057	0.9827068
ENSG00000152102	FAM168B	6018.269	-0.007226312	0.9798282
ENSG00000135900	MRPL44	966.0793	-0.007382246	0.9810926
ENSG00000197062	ZSCAN26	47.6886	-0.007466006	0.9915655

ENSG00000146587	RBAK	332.3621	-0.007829959	0.9826114
ENSG00000256087	ZNF432	543.9734	-0.007871142	0.9864775
ENSG00000109572	CLCN3	4311.354	-0.007944785	0.9798282
ENSG00000100906	NFKBIA	5447.486	-0.007976046	0.9806916
ENSG00000155970	MICU3	178.531	-0.008022936	0.9881978
ENSG00000196295	GARS-DT	232.2837	-0.008025047	0.986434
ENSG00000156875	MFSD14A	60.59782	-0.008171955	0.9905545
ENSG00000138385	SSB	2841.33	-0.008447979	0.9758605
ENSG00000240682	ISY1	315.393	-0.008464417	0.9837533
ENSG00000135655	USP15	5352.789	-0.008593659	0.9752374
ENSG00000184220	CMSS1	906.4113	-0.008736962	0.9746801
ENSG00000050327	ARHGEF5	1192.002	-0.008855971	0.9763971
ENSG00000113387	SUB1	2891.921	-0.008904325	0.9760141
ENSG00000110660	SLC35F2	2316.396	-0.008949202	0.9778923
ENSG00000081386	ZNF510	183.4194	-0.009041545	0.9816506
ENSG00000179454	KLHL28	369.4201	-0.009540611	0.9808367
ENSG00000104442	ARMC1	695.5624	-0.009830001	0.9793078
ENSG00000182473	EXOC7	1960.017	-0.01036476	0.9709719
ENSG00000213199	ASIC3	108.2529	-0.01038803	0.9842257
ENSG00000161847	RAVER1	298.9481	-0.01039603	0.9801812
ENSG00000100603	SNW1	1907.614	-0.01053185	0.9701474
ENSG00000182149	IST1	7924.101	-0.01064117	0.9689033
ENSG00000161016	RPL8	37426	-0.01083239	0.9675407
ENSG00000066923	STAG3	94.54711	-0.01091756	0.9839049

ENSG00000148843	PDCD11	3687.182	-0.01121995	0.9683644
ENSG00000067601	PMS2P4	24.35785	-0.01135729	0.9906592
ENSG00000132522	GPS2	44.92081	-0.01136107	0.9890723
ENSG00000132881	CPLANE2	47.47353	-0.01136491	0.987151
ENSG00000090539	CHRD	10.45857	-0.01144812	0.9943579
ENSG00000164305	CASP3	496.8519	-0.01171537	0.9720816
ENSG00000039139	DNAH5	6.89443	-0.0117318	0.9953091
ENSG00000171649	ZIK1	216.2273	-0.01180812	0.9855422
ENSG00000169180	XPO6	3537.92	-0.01218606	0.964913
ENSG00000148688	RPP30	768.4389	-0.01232961	0.9764133
ENSG00000109689	STIM2	399.406	-0.01234885	0.9701474
ENSG00000166228	PCBD1	451.6617	-0.01235616	0.9748402
ENSG00000165632	TAF3	1113.479	-0.01238241	0.974241
ENSG00000155755	TMEM237	287.4567	-0.0124707	0.9783352
ENSG00000111642	CHD4	354.3896	-0.01251188	0.9717416
ENSG00000122705	CLTA	8413.241	-0.01256998	0.9688019
ENSG00000231682	LINC01891	56.56386	-0.01293672	0.9836468
ENSG00000115194	SLC30A3	563.5406	-0.01297021	0.9792624
ENSG00000124827	GCM2	14.31788	-0.01298786	0.9923455
ENSG00000148690	FRA10AC1	265.3614	-0.01311735	0.9722814
ENSG00000185684	EP400P1	480.5102	-0.01318629	0.9716427
ENSG00000167978	SRRM2	18215.47	-0.01325361	0.9661138
ENSG00000121900	TMEM54	601.884	-0.01326611	0.9700751
ENSG00000197798	FAM118B	516.4795	-0.01367771	0.9769107

ENSG00000162733	DDR2	45.20563	-0.01425433	0.9880637
ENSG00000168246	UBTD2	1721.224	-0.01428783	0.9592653
ENSG00000116001	TIA1	965.4095	-0.01448357	0.9623142
ENSG00000001629	ANKIB1	2971.546	-0.01474602	0.9654135
ENSG00000198408	OGA	4682.544	-0.01479052	0.958668
ENSG00000064932	SBNO2	1541.51	-0.01480748	0.974241
ENSG00000156642	NPTN	2289.976	-0.01489912	0.9600691
ENSG00000088035	ALG6	710.9214	-0.01493032	0.9599451
ENSG00000219891	ZSCAN12P1	421.172	-0.01510304	0.9765942
ENSG00000159377	PSMB4	10750.55	-0.01511696	0.9583476
ENSG00000185246	PRPF39	594.8457	-0.01530816	0.9642192
ENSG00000276334	AL133243.2	7.827178	-0.01536391	0.9923455
ENSG00000089050	RBBP9	413.1176	-0.0156393	0.9623868
ENSG00000081087	OSTM1	830.8017	-0.01578102	0.9602357
ENSG00000162618	ADGRL4	4.4376	-0.01581681	0.9954912
ENSG00000170606	HSPA4	14358.87	-0.01584119	0.9577598
ENSG00000152457	DCLRE1C	141.1802	-0.01588172	0.9769715
ENSG00000038358	EDC4	2055.148	-0.01590308	0.9599451
ENSG00000118961	LDAH	877.5007	-0.01600783	0.9592653
ENSG00000108256	NUFIP2	9393.492	-0.01607025	0.9631211
ENSG00000173163	COMMD1	685.0211	-0.01611793	0.9670396
ENSG00000149182	ARFGAP2	3321.771	-0.01622897	0.9592653
ENSG00000164944	VIRMA	1561.686	-0.01633417	0.9548351
ENSG00000099992	TBC1D10A	2009.39	-0.01699013	0.9554416

ENSG00000138767	CNOT6L	1236.772	-0.01705345	0.9661138
ENSG00000153317	ASAP1	4064.287	-0.01710823	0.9576427
ENSG00000254996	ANKHD1-EIF4EBP3	13.75393	-0.01740036	0.9898948
ENSG00000174021	GNG5	186.5189	-0.01747916	0.9670396
ENSG00000189337	KAZN	4034.097	-0.01752056	0.964832
ENSG00000167186	COQ7	174.4395	-0.01766845	0.9671285
ENSG00000115241	PPM1G	3431.917	-0.01780954	0.9531512
ENSG00000198331	HYLS1	102.6366	-0.01783132	0.9710268
ENSG00000141013	GAS8	308.172	-0.01798031	0.9624923
ENSG00000136381	IREB2	2057.89	-0.01806126	0.955614
ENSG00000124772	CPNE5	57.75388	-0.0181184	0.9796963
ENSG00000115368	WDR75	2326.394	-0.01820232	0.9555481
ENSG00000143337	TOR1AIP1	1189.525	-0.01858555	0.9500294
ENSG00000107821	KAZALD1	30.6466	-0.01882132	0.9835023
ENSG00000213079	SCAF8	809.6626	-0.01884487	0.9543162
ENSG00000179965	ZNF771	28.22541	-0.01884505	0.9842257
ENSG00000136631	VPS45	815.9653	-0.01900799	0.9514388
ENSG00000125875	TBC1D20	5032.114	-0.01914158	0.9466541
ENSG00000070729	CNGB1	78.76316	-0.01923968	0.9772333
ENSG00000169062	UPF3A	746.0916	-0.01943031	0.9562967
ENSG00000100426	ZBED4	1028.938	-0.01947468	0.9557037
ENSG00000186417	GLDN	2170.81	-0.0196229	0.9646497
ENSG00000178425	NT5DC1	799.7185	-0.01962357	0.9583107
ENSG00000259349	AC011921.1	32.86028	-0.01968324	0.9803144

ENSG00000179134	SAMD4B	3845.01	-0.0199014	0.958668
ENSG00000176953	NFATC2IP	2873.546	-0.02009837	0.9462144
ENSG00000132825	PPP1R3D	138.5412	-0.02018074	0.9690955
ENSG00000115761	NOL10	1248.727	-0.02049272	0.958668
ENSG00000203667	COX20	8.076489	-0.0206027	0.9892283
ENSG00000136522	MRPL47	1044.933	-0.02066571	0.9577598
ENSG00000197312	DDI2	2002.168	-0.02070258	0.9520521
ENSG00000272142	AL359643.3	33.62258	-0.02073047	0.979696
ENSG00000136875	PRPF4	1880.421	-0.02092526	0.9413379
ENSG00000095951	HIVEP1	504.49	-0.02107925	0.9576427
ENSG00000170854	RIOX2	1050.683	-0.02117223	0.9550208
ENSG00000185630	PBX1	418.5223	-0.02119024	0.9689033
ENSG00000179148	ALOXE3	773.2015	-0.02119936	0.9576427
ENSG00000147677	EIF3H	7200.146	-0.02125745	0.9419082
ENSG00000173511	VEGFB	1231.303	-0.02135847	0.9458607
ENSG00000187514	PTMA	24187.21	-0.0216672	0.9394915
ENSG00000090054	SPTLC1	4920.038	-0.02193077	0.9426476
ENSG00000100014	SPECC1L	672.2024	-0.02207941	0.9483025
ENSG00000116117	PARD3B	4.338733	-0.02210543	0.9923455
ENSG00000115526	CHST10	42.43264	-0.02213506	0.979696
ENSG00000170043	TRAPPC1	1628.507	-0.02220892	0.9417601
ENSG00000231689	LINC01090	54.63776	-0.02230363	0.9726926
ENSG00000254595	AC084337.1	9.006946	-0.02232891	0.9884545
ENSG00000102878	HSF4	157.9028	-0.02233047	0.9660102

ENSG00000170310	STX8	960.1825	-0.02250724	0.9554416
ENSG00000134419	RPS15A	3348.022	-0.02263744	0.9390886
ENSG00000155090	KLF10	1266.038	-0.02274165	0.9516383
ENSG00000011295	TTC19	809.1332	-0.02275191	0.944928
ENSG00000171877	FRMD5	5.125602	-0.02277953	0.9898948
ENSG00000141452	RMC1	965.1589	-0.02279526	0.9420814
ENSG00000179562	GCC1	1368.616	-0.02298901	0.9409821
ENSG00000056586	RC3H2	1391.465	-0.02300532	0.9427163
ENSG00000111605	CPSF6	2345.606	-0.02309481	0.9413379
ENSG00000280161	AC022413.1	4.60831	-0.02326332	0.9912405
ENSG00000204253	HNRNPCP2	99.16205	-0.0233384	0.9663932
ENSG00000254428	AP003392.1	16.4466	-0.02360444	0.9838605
ENSG00000171159	C9orf16	336.2023	-0.02364147	0.9557037
ENSG00000006062	MAP3K14	29.02586	-0.02371553	0.9814317
ENSG00000198482	ZNF808	595.7622	-0.02374886	0.9581611
ENSG00000147804	SLC39A4	213.1529	-0.02401573	0.9534291
ENSG00000136045	PWP1	2071.337	-0.02415912	0.9407127
ENSG00000271605	MILR1	6.280057	-0.02482458	0.9892587
ENSG00000164164	OTUD4	1957.559	-0.02509472	0.9486901
ENSG00000115548	KDM3A	1307.068706	-0.025095368	0.929931094
ENSG00000103740	ACSBG1	16.52007	-0.02509954	0.984386
ENSG00000106367	AP1S1	3425.397199	-0.025113249	0.924299954
ENSG00000219545	UMAD1	656.8818	-0.02516714	0.9527872
ENSG00000054598	FOXC1	55.92304	-0.02517266	0.9693762

ENSG00000183049	CAMK1D	5.898829	-0.0253104	0.9903596
ENSG00000065000	AP3D1	9852.798	-0.02531484	0.9427163
ENSG00000267904	AC024075.1	9.607639	-0.02550826	0.9858558
ENSG00000164934	DCAF13	1750.951	-0.0255111	0.9394915
ENSG00000143761	ARF1	22670.69236	-0.025582794	0.928520565
ENSG00000234664	HMGN2P5	166.4402	-0.02591675	0.9564501
ENSG00000179698	WDR97	4.748814	-0.02600728	0.9895684
ENSG00000184083	FAM120C	121.5638	-0.02611747	0.9649758
ENSG00000249407	IL20RB-AS1	9.795602	-0.0266079	0.9855499
ENSG00000134748	PRPF38A	1379.565	-0.02665724	0.9425024
ENSG00000197111	PCBP2	3837.368	-0.02669368	0.9340081
ENSG00000128923	MINDY2	2122.1	-0.02706517	0.9534291
ENSG00000275464	FP565260.1	417.3951	-0.02735456	0.9418564
ENSG00000135596	MICAL1	1246.459	-0.02738002	0.9426476
ENSG00000120686	UFM1	2564.469	-0.02742155	0.9340081
ENSG00000204713	TRIM27	3128.096666	-0.027843842	0.932647988
ENSG00000173157	ADAMTS20	8997.353354	-0.027971219	0.925928729
ENSG00000177889	UBE2N	2801.123579	-0.028100768	0.927666056
ENSG00000000003	TSPAN6	1212.791	-0.02814358	0.9413379
ENSG00000148606	POLR3A	1555.951	-0.02822434	0.9399174
ENSG00000164323	CFAP97	565.9747	-0.02842785	0.9592794
ENSG00000258427	RBM8B	5.857393	-0.02855029	0.987415
ENSG00000256060	TRAPPC2B	166.8061	-0.02882256	0.9538707
ENSG00000204576	PRR3	232.7145	-0.02889129	0.9423774

ENSG00000112699	GMDS	841.2453	-0.02890173	0.9486562
ENSG00000172638	EFEMP2	24.6164	-0.02892705	0.9748674
ENSG00000145425	RPS3A	13423.68529	-0.029249258	0.913343032
ENSG00000120438	TCP1	11414.25361	-0.029255122	0.916007599
ENSG00000137776	SLTM	6787.488	-0.02984807	0.95247
ENSG00000183323	CCDC125	604.509	-0.0299256	0.9375804
ENSG00000061936	SFSWAP	2014.322176	-0.029934303	0.925957123
ENSG00000198873	GRK5	265.0174	-0.03025497	0.9367875
ENSG00000184014	DENND5A	4979.988	-0.03028413	0.9376243
ENSG00000179165	PXT1	3.772095	-0.0304319	0.990266
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ENSG00000136280	CCM2	684.4447431	-0.030888741	0.924299954
ENSG00000205981	DNAJC19	394.5539	-0.03091802	0.938457
ENSG00000129675	ARHGEF6	5.368067	-0.03092457	0.9854304
ENSG00000139178	C1RL	9.379393	-0.0309947	0.9834623
ENSG00000127184	COX7C	5977.99504	-0.031015391	0.916883697
ENSG00000105321	CCDC9	2693.099097	-0.031088522	0.932471107
ENSG00000239382	ALKBH6	24.7007	-0.03122072	0.9713724
ENSG00000175198	PCCA	404.3179	-0.0314096	0.95247
ENSG00000163171	CDC42EP3	1252.193	-0.0315156	0.934104
ENSG00000148303	RPL7A	61563.58456	-0.031655305	0.900415613
ENSG00000109445	ZNF330	1197.692	-0.03198952	0.9484778
ENSG00000106415	GLCCI1	2574.489	-0.03227137	0.9502578
ENSG00000123136	DDX39A	3334.293407	-0.032289651	0.928035749

ENSG00000164695	CHMP4C	522.7597604	-0.032349165	0.93109988
ENSG00000186026	ZNF284	33.12998	-0.03237016	0.9701474
ENSG00000287678	AL031778.1	14.16943	-0.03242807	0.9794674
ENSG00000164151	ICE1	809.320323	-0.032566244	0.926675222
ENSG00000065427	KARS	8272.402042	-0.032626847	0.896029615
ENSG00000131669	NINJ1	1682.404832	-0.032690432	0.910277347
ENSG00000204308	RNF5	919.4678488	-0.032721753	0.9167185
ENSG00000146909	NOM1	1063.395962	-0.032785738	0.920283144
ENSG00000125868	DSTN	9597.296403	-0.032786875	0.904747444
ENSG00000134297	PLEKHA8P1	91.61234	-0.03297392	0.951248
ENSG00000116489	CAPZA1	10007.54356	-0.033091935	0.902144693
ENSG00000158417	EIF5B	14535.20597	-0.033714868	0.9101771
ENSG00000148248	SURF4	33403.85977	-0.033978953	0.921462275
ENSG00000157538	VPS26C	1653.684184	-0.034062778	0.919634256
ENSG00000165650	PDZD8	455.6241	-0.03418707	0.9344656
ENSG00000065183	WDR3	1421.557531	-0.034358978	0.916500747
ENSG00000114988	LMAN2L	412.3248	-0.03468859	0.9431363
ENSG00000171863	RPS7	16666.31889	-0.034775108	0.898450074
ENSG00000114904	NEK4	462.7563965	-0.034898146	0.915771161
ENSG00000077147	TM9SF3	16645.39457	-0.034993079	0.89695379
ENSG00000227719	AC006042.1	18.38145	-0.03523523	0.9712621
ENSG00000103888	CEMIP	46.71633	-0.03527753	0.9586427
ENSG00000141646	SMAD4	900.2096696	-0.03534162	0.922425947
ENSG00000134086	VHL	787.50455	-0.035366021	0.923427602

ENSG00000126453	BCL2L12	1630.344184	-0.035417127	0.905905321
ENSG00000265241	RBM8A	1352.272845	-0.035568859	0.930491757
ENSG00000163597	SNHG16	2541.829801	-0.035608726	0.904167968
ENSG00000137845	ADAM10	3337.523578	-0.03575848	0.916500747
ENSG00000218226	TATDN2P2	30.8244	-0.03577477	0.967145
ENSG00000169926	KLF13	1503.443172	-0.035826221	0.932536756
ENSG00000169247	SH3TC2	4181.487417	-0.035833016	0.895604705
ENSG00000120885	CLU	9587.997	-0.03584183	0.9367875
ENSG00000186523	FAM86B1	5.811042	-0.03588779	0.9840066
ENSG00000115556	PLCD4	168.6365	-0.0359649	0.9545825
ENSG00000230658	KLHL7-DT	47.6618	-0.03611809	0.9631723
ENSG00000054277	OPN3	1744.932462	-0.036243802	0.902122005
ENSG00000196417	ZNF765	658.9075518	-0.036294957	0.919794271
ENSG00000160305	DIP2A	1488.552556	-0.036310865	0.91563348
ENSG00000130309	COLGALT1	5838.316371	-0.036351911	0.913279807
ENSG00000204923	FBXO48	32.41781	-0.03648933	0.9637375
ENSG00000010017	RANBP9	3220.537625	-0.036522812	0.903136103
ENSG00000176407	KCMF1	2222.910432	-0.036732176	0.906502941
ENSG00000183735	TBK1	2764.850933	-0.037241314	0.908564346
ENSG00000226360	RPL10AP6	60.83623	-0.03746153	0.9566502
ENSG00000177105	RHOG	1283.543956	-0.037550482	0.918722883
ENSG00000215717	TMEM167B	1083.010879	-0.037552934	0.920283144
ENSG00000051108	HERPUD1	13232.8381	-0.037678364	0.915517674
ENSG00000100299	ARSA	464.348127	-0.037815112	0.910587666

ENSG00000182095	TNRC18	2695.484792	-0.037845605	0.920283144
ENSG00000279968	GVQW2	8.902556	-0.03798851	0.9830068
ENSG00000258289	CHURC1	217.4611	-0.0380195	0.946338
ENSG00000080845	DLGAP4	2322.321969	-0.038025134	0.900645595
ENSG00000100196	KDELR3	1167.821	-0.03822646	0.9380028
ENSG00000261924	AC127496.1	53.62211	-0.03849946	0.9607478
ENSG00000275056	AC020663.3	7.591111	-0.03855576	0.9829871
ENSG00000038219	BOD1L1	1132.198019	-0.038772919	0.922639078
ENSG00000150753	CCT5	14371.75822	-0.038829851	0.898868333
ENSG00000160310	PRMT2	1773.828546	-0.038847548	0.895796712
ENSG00000184182	UBE2F	692.7133717	-0.038890846	0.905204806
ENSG00000176102	CSTF3	1915.787589	-0.038965825	0.897947855
ENSG00000135018	UBQLN1	7687.578593	-0.039018742	0.882995451
ENSG00000153233	PTPRR	47.02786	-0.03923791	0.9682135
ENSG00000148483	TMEM236	70.33893	-0.03958584	0.9519991
ENSG00000084093	REST	1911.621211	-0.039677439	0.927441263
ENSG00000248664	AC010273.2	4.940883	-0.03975809	0.983417
ENSG00000152049	KCNE4	5.164523	-0.03978479	0.9849437
ENSG00000083635	NUFIP1	385.3447665	-0.040231602	0.918957634
ENSG00000284770	TBCE	12.22326	-0.04029185	0.976152
ENSG00000257103	LSM14A	5527.975	-0.040315427	0.900584564
ENSG00000177733	HNRNPA0	4736.842189	-0.040338453	0.890292013
ENSG00000174718	RESF1	153.6273574	-0.040346053	0.927956475
ENSG00000131375	CAPN7	1172.722204	-0.040501594	0.899667209

ENSG00000175538	KCNE3	274.3163	-0.04053988	0.9394921
ENSG00000094841	UPRT	141.605	-0.04062292	0.9340081
ENSG00000119041	GTF3C3	2426.931353	-0.04071837	0.906637352
ENSG00000108107	RPL28	17249.61614	-0.041233017	0.875440009
ENSG00000198125	MB	57.09128	-0.04123588	0.9555481
ENSG00000122641	INHBA	27.57229	-0.04135141	0.9707709
ENSG00000248333	CDK11B	2446.826487	-0.041641468	0.881533557
ENSG00000179195	ZNF664	2492.644302	-0.041740373	0.901007382
ENSG00000080603	SRCAP	96.41281	-0.0417858	0.9531512
ENSG00000005801	ZNF195	463.2745659	-0.042002337	0.92030133
ENSG00000159685	CHCHD6	125.7827	-0.04202751	0.945117
ENSG00000160271	RALGDS	113.5215	-0.04219377	0.944127
ENSG00000124222	STX16	1411.125393	-0.042451959	0.912307923
ENSG00000117020	AKT3	900.057	-0.04255598	0.9411267
ENSG00000179094	PER1	1192.881276	-0.042745019	0.92535265
ENSG00000171206	TRIM8	231.030918	-0.042805462	0.932471107
ENSG00000170525	PFKFB3	243.0843084	-0.043098266	0.931773526
ENSG00000132478	UNK	740.9527036	-0.043137581	0.887897555
ENSG00000124313	IQSEC2	153.0484433	-0.043280578	0.927791067
ENSG00000135446	CDK4	1200.061453	-0.043388849	0.889054992
ENSG00000108551	RASD1	44.05655	-0.04366975	0.9628845
ENSG00000048544	MRPS10	1535.551902	-0.043686838	0.890937416
ENSG00000124228	DDX27	3539.349802	-0.043723663	0.898095696
ENSG00000166716	ZNF592	2608.647479	-0.043788591	0.880156569

ENSG00000234127	TRIM26	898.4970765	-0.044104457	0.923115334
ENSG00000143751	SDE2	1159.235245	-0.044236449	0.899506508
ENSG00000113522	RAD50	28.86679	-0.04425566	0.9615153
ENSG00000169100	SLC25A6	10660.93822	-0.044308519	0.900907422
ENSG00000286329	AC108690.1	64.95255	-0.04444944	0.9514388
ENSG00000080802	CNOT4	940.3482688	-0.044633898	0.918310636
ENSG00000178458	H3F3AP6	16.35207	-0.04469193	0.9659549
ENSG00000135392	DNAJC14	655.2828631	-0.044759273	0.910931518
ENSG00000088002	SULT2B1	15.26739	-0.04482128	0.9717364
ENSG00000136930	PSMB7	8029.735494	-0.044916937	0.892714527
ENSG00000166197	NOLC1	8786.395959	-0.044952014	0.892211243
ENSG00000143418	CERS2	990.4496037	-0.045034581	0.914180673
ENSG00000100429	HDAC10	35.79147	-0.04534117	0.9562967
ENSG00000185100	ADSSL1	26.2177	-0.04558385	0.9663686
ENSG00000130307	USHBP1	35.34395	-0.04561362	0.9569832
ENSG00000180747	SMG1P3	47.66331	-0.04568124	0.9479898
ENSG00000155906	RMND1	1665.968987	-0.045692017	0.889054992
ENSG00000171824	EXOSC10	3037.585436	-0.045725603	0.879071132
ENSG00000114473	IQCG	37.15847	-0.0457448	0.9557037
ENSG00000124333	VAMP7	2245.51496	-0.046002187	0.869458052
ENSG00000000457	SCYL3	295.5796839	-0.046418491	0.906699884
ENSG00000076053	RBM7	620.3160131	-0.046494307	0.891648019
ENSG00000056291	NPFFR2	111.3279	-0.04667039	0.9426476
ENSG00000106028	SSBP1	2514.383316	-0.046817046	0.897893814

ENSG00000111843	TMEM14C	2909.475929	-0.047105592	0.860938453
ENSG00000054611	TBC1D22A	775.9303214	-0.047425241	0.882914221
ENSG00000152684	PELO	5581.567562	-0.047474274	0.886934289
ENSG00000101577	LPIN2	1570.567057	-0.047490938	0.919323397
ENSG00000064225	ST3GAL6	600.4834825	-0.047882418	0.87669561
ENSG00000212664	AC064799.1	41.46338	-0.04792633	0.9557037
ENSG00000169230	PRELID1	3633.832667	-0.048068761	0.876561382
ENSG00000068097	HEATR6	400.7950469	-0.048148383	0.887110176
ENSG00000213080	AL354714.2	32.19938	-0.04827778	0.9516933
ENSG00000136152	COG3	3715.935268	-0.048323831	0.882995451
ENSG00000213906	LTB4R2	16.12511	-0.04834041	0.9671285
ENSG00000134909	ARHGAP32	1768.059508	-0.048345237	0.883524428
ENSG00000009307	CSDE1	25024.23721	-0.048549219	0.877831518
ENSG00000198146	ZNF770	375.4735225	-0.048783579	0.905911768
ENSG00000114923	SLC4A3	607.2710673	-0.048981451	0.880828171
ENSG00000151923	TIAL1	4440.160655	-0.049057988	0.890779575
ENSG00000196670	ZFP62	211.3257771	-0.049079262	0.91857814
ENSG00000196459	TRAPPC2	415.024758	-0.049141389	0.891945607
ENSG00000149499	EML3	1040.681332	-0.049155142	0.903347617
ENSG00000008516	MMP25	16.82283	-0.04923112	0.962869
ENSG00000164978	NUDT2	428.311306	-0.049241976	0.899640733
ENSG00000115993	TRAK2	660.4012377	-0.049287743	0.90152311
ENSG00000167283	ATP5MG	304.3034055	-0.049313652	0.906637352
ENSG00000162869	PPP1R21	873.9220537	-0.049530698	0.894971216

ENSG00000066230	SLC9A3	19.38414	-0.04960948	0.9623142
ENSG00000134001	EIF2S1	4015.484282	-0.049714527	0.888238072
ENSG00000140968	IRF8	18.96794	-0.04982615	0.9770418
ENSG00000101132	PFDN4	605.7917953	-0.049951227	0.904083934
ENSG00000285531	Z83840.1	14.75869	-0.04996978	0.9661751
ENSG00000147853	AK3	2865.967042	-0.050037604	0.90129525
ENSG00000136319	TTC5	151.8307811	-0.050047269	0.928719994
ENSG00000231500	RPS18	65371.14476	-0.050233444	0.862520437
ENSG00000107164	FUBP3	4181.023342	-0.050585929	0.862565231
ENSG00000166529	ZSCAN21	524.29892	-0.050771862	0.889054992
ENSG00000197279	ZNF165	1983.089238	-0.051307384	0.870911866
ENSG00000228106	AL392172.1	21.24903	-0.05141826	0.958668
ENSG00000154582	ELOC	2823.410814	-0.051543927	0.856310206
ENSG00000161217	PCYT1A	1989.731619	-0.051549986	0.900584564
ENSG00000185158	LRRC37B	131.4620515	-0.051662154	0.922639078
ENSG00000080561	MID2	24.86202	-0.05167617	0.9576427
ENSG00000144455	SUMF1	1048.59071	-0.0517295	0.868793294
ENSG00000086300	SNX10	440.3188995	-0.051807475	0.917048056
ENSG00000130021	PUDP	1923.435215	-0.051907923	0.875777968
ENSG00000102572	STK24	4129.059539	-0.052130154	0.865985627
ENSG00000073350	LLGL2	717.9133887	-0.052144525	0.891648019
ENSG00000102984	ZNF821	51.47719	-0.05254674	0.9423774
ENSG00000111727	HCFC2	515.613006	-0.052585597	0.894604058
ENSG00000163874	ZC3H12A	472.1844601	-0.052601423	0.895587255

ENSG00000116985	BMP8B	12.17231	-0.05267976	0.9659549
ENSG00000117748	RPA2	1431.883163	-0.052711577	0.883524428
ENSG00000012211	PRICKLE3	368.7559961	-0.052719219	0.892117339
ENSG00000228929	RPS13P2	16.59009	-0.05286331	0.9615153
ENSG00000151135	TMEM263	1311.558962	-0.05286485	0.924190413
ENSG00000110958	PTGES3	14706.04197	-0.052968443	0.842040137
ENSG00000143379	SETDB1	996.8192121	-0.052975361	0.881533557
ENSG00000166012	TAF1D	3093.590213	-0.053007232	0.840771413
ENSG00000135424	ITGA7	19.36642	-0.05305581	0.958668
ENSG00000025796	SEC63	7403.807334	-0.053078257	0.854123479
ENSG00000138433	CIR1	1338.102046	-0.053628418	0.847986232
ENSG00000124120	TTPAL	315.1608366	-0.053651871	0.890779575
ENSG00000115520	COQ10B	1929.80084	-0.053654262	0.860938453
ENSG00000105223	PLD3	10422.18875	-0.053700057	0.90475724
ENSG00000104388	RAB2A	4778.561314	-0.053702581	0.874334319
ENSG00000226415	TPI1P1	50.11228	-0.05384828	0.9416894
ENSG00000259374	NDUFB4P11	85.40982	-0.05394819	0.9334008
ENSG00000166848	TERF2IP	1115.815683	-0.054039391	0.874334319
ENSG00000165195	PIGA	1040.30977	-0.05426106	0.85101852
ENSG00000186594	MIR22HG	1679.56	-0.05431385	0.958668
ENSG00000124459	ZNF45	217.0754529	-0.054445737	0.899513201
ENSG00000277972	CISD3	246.4362321	-0.054537363	0.904084845
ENSG00000197548	ATG7	1808.847971	-0.054809178	0.840372435
ENSG00000147601	TERF1	550.6959657	-0.054960522	0.872329122

ENSG00000006118	TMEM132A	1867.664938	-0.055017315	0.837310593
ENSG00000004809	SLC22A16	16.87117	-0.05526593	0.9659455
ENSG00000135049	AGTPBP1	621.1582701	-0.0554589	0.891580131
ENSG00000183474	GTF2H2C	142.8560627	-0.055481447	0.903466027
ENSG00000284024	HSPA14	646.2313156	-0.055572895	0.898249378
ENSG00000089157	RPLP0	89954.6606	-0.055760282	0.82807751
ENSG00000101104	PABPC1L	806.953034	-0.056021531	0.922499386
ENSG00000115042	FAHD2A	522.5152075	-0.056159389	0.89967809
ENSG00000114739	ACVR2B	1249.707762	-0.056347682	0.900415613
ENSG00000231966	LINC02818	28.35021	-0.05653299	0.9555481
ENSG00000166557	TMED3	3690.186814	-0.056720224	0.851348679
ENSG00000162600	OMA1	255.1586567	-0.056785258	0.912307923
ENSG00000272777	AC019131.2	5.295151	-0.05689928	0.9778923
ENSG00000273311	DGCR11	76.88082	-0.05695114	0.9361725
ENSG00000137955	RABGGTB	738.3043242	-0.057005879	0.876561382
ENSG00000087299	L2HGDH	448.83317	-0.05729741	0.85962231
ENSG00000206530	CFAP44	15.6282	-0.05743376	0.9659549
ENSG00000204869	IGFL4	10.0556	-0.05751736	0.9673994
ENSG00000101413	RPRD1B	1623.341211	-0.057644763	0.829268792
ENSG00000156017	CARNMT1	744.0065739	-0.057746631	0.871779194
ENSG00000285954	AC119428.2	66.8243	-0.0577893	0.9516383
ENSG00000237149	ZNF503-AS2	5.395504	-0.0578169	0.9783674
ENSG00000104412	EMC2	1901.579346	-0.057942286	0.861006902
ENSG00000166965	RCCD1	548.9496352	-0.057943955	0.895380086

ENSG00000117475	BLZF1	522.2903038	-0.058037635	0.875440009
ENSG00000101166	PRELID3B	3811.781722	-0.058236915	0.81241505
ENSG00000101346	POFUT1	1261.377288	-0.058364525	0.844705856
ENSG00000262703	AC009121.2	16.05976	-0.05842388	0.9615448
ENSG00000102760	RGCC	6.453119	-0.05848012	0.9778923
ENSG00000132406	TMEM128	341.5551028	-0.058604583	0.903466027
ENSG00000169045	HNRNPH1	10123.5781	-0.0589373	0.850126451
ENSG00000287733	AC083862.3	9.358243	-0.05912466	0.9671285
ENSG00000121749	TBC1D15	2091.779028	-0.059351704	0.867165308
ENSG00000166704	ZNF606	90.32480517	-0.059533685	0.911981952
ENSG00000023572	GLRX2	184.340217	-0.059632324	0.898834773
ENSG00000079950	STX7	1439.549484	-0.059881936	0.836068153
ENSG00000144034	TPRKB	402.4586426	-0.060180491	0.86112286
ENSG00000183496	MEX3B	6.820705	-0.06023155	0.9731895
ENSG00000188599	NPIPP1	36.66678	-0.06032624	0.9433814
ENSG00000099817	POLR2E	3990.400495	-0.060362199	0.818583371
ENSG00000228470	AL929236.1	8.3771	-0.06054044	0.9700655
ENSG00000225022	UBE2D3P1	7.359374	-0.06066132	0.9697282
ENSG00000120742	SERP1	13082.20726	-0.060832093	0.818979473
ENSG00000240053	LY6G5B	27.43892	-0.0609531	0.9583476
ENSG00000111325	OGFOD2	16.68158	-0.06109719	0.9631589
ENSG00000158470	B4GALT5	2026.871077	-0.061511163	0.895587255
ENSG00000165568	AKR1E2	3.764017	-0.06181986	0.984386
ENSG00000059691	GATB	646.7690742	-0.061937146	0.836251349

ENSG00000186184	POLR1D	1648.444011	-0.062090484	0.841927391
ENSG00000172780	RAB43	19.8216	-0.06223552	0.9555481
ENSG00000177302	TOP3A	1890.069502	-0.062310909	0.853378958
ENSG00000144369	FAM171B	200.5300603	-0.06271499	0.910060364
ENSG00000115380	EFEMP1	5400.888919	-0.062758486	0.877850853
ENSG00000213553	RPLP0P6	378.6935706	-0.062995275	0.857026097
ENSG00000136213	CHST12	1330.304675	-0.063080988	0.891343888
ENSG00000164253	WDR41	254.9329145	-0.06327145	0.875354519
ENSG00000244041	LINC01011	19.90591	-0.0632797	0.9569832
ENSG00000213830	CFL1P5	10.92759	-0.06363588	0.9600691
ENSG00000005884	ITGA3	2195.872302	-0.063677937	0.857088595
ENSG00000017260	ATP2C1	2612.145876	-0.063881557	0.805675283
ENSG00000144504	ANKMY1	273.644709	-0.063913876	0.873427864
ENSG00000182993	C12orf60	34.35888	-0.0639487	0.9396529
ENSG00000128272	ATF4	22372.32856	-0.064084737	0.863161687
ENSG00000140743	CDR2	746.4465418	-0.064089359	0.905618509
ENSG00000163754	GYG1	582.8410967	-0.064302462	0.887110176
ENSG00000119820	YIPF4	1134.41986	-0.064329587	0.861673716
ENSG00000124535	WRNIP1	2798.989673	-0.064363871	0.80546455
ENSG00000060069	CTDP1	1410.868345	-0.064485854	0.858827548
ENSG00000156052	GNAQ	1936.631897	-0.064501831	0.829095982
ENSG00000248238	LINC02438	19.24985	-0.06461875	0.958668
ENSG00000173674	EIF1AX	4023.810975	-0.06462668	0.805008067
ENSG00000148335	NTMT1	1481.766626	-0.064762844	0.812100348

ENSG00000137491	SLCO2B1	43.25702	-0.0651544	0.9396699
ENSG00000288046	AL031123.5	4.923055	-0.06523842	0.9799184
ENSG00000084092	NOA1	1425.198157	-0.065350368	0.825109922
ENSG00000188603	CLN3	103.3854496	-0.065565289	0.894632997
ENSG00000115053	NCL	28095.38566	-0.065799333	0.841276345
ENSG00000170892	TSEN34	1181.894031	-0.065802949	0.821574905
ENSG00000112855	HARS2	662.4768152	-0.066167044	0.87584684
ENSG00000179981	TSHZ1	69.79295709	-0.066225487	0.929889937
ENSG00000164056	SPRY1	36.92096	-0.06626671	0.9347365
ENSG00000014824	SLC30A9	1727.26757	-0.066387584	0.825560478
ENSG00000273188	AL022328.3	14.02909	-0.06645937	0.9599451
ENSG00000083520	DIS3	1749.909759	-0.066497504	0.825141599
ENSG00000135127	BICDL1	269.4522913	-0.066537124	0.897779532
ENSG00000109920	FNBP4	2856.212112	-0.066605845	0.838767714
ENSG00000048052	HDAC9	14.53898	-0.0666408	0.9646497
ENSG00000218283	MORF4L1P1	571.6010774	-0.066661236	0.864771416
ENSG00000237094	AL732372.2	17.34238	-0.06681769	0.9569832
ENSG00000087263	OGFOD1	1072.333688	-0.067012787	0.834510129
ENSG00000010310	GIPR	12.97293	-0.06707349	0.9591978
ENSG00000116329	OPRD1	6.841768	-0.06816732	0.9717364
ENSG00000181284	TMEM102	183.5120864	-0.068244845	0.870673887
ENSG00000068912	ERLEC1	9724.491348	-0.068385884	0.776695174
ENSG00000005175	RPAP3	626.2517747	-0.068437531	0.841111328
ENSG00000178935	ZNF552	536.0852655	-0.068847959	0.911863304

ENSG00000214182	PTMAP5	94.48321517	-0.069341655	0.90062045
ENSG00000163349	HIPK1	1768.704449	-0.069372555	0.858062465
ENSG00000238278	ALG1L6P	15.77087	-0.06943811	0.9556215
ENSG00000177463	NR2C2	1253.501415	-0.06964619	0.809561412
ENSG00000103121	CMC2	382.4308736	-0.069678461	0.852978421
ENSG00000182899	RPL35A	11154.16259	-0.069737459	0.781290275
ENSG00000270953	AC007938.3	6.800556	-0.06976701	0.9676063
ENSG00000062582	MRPS24	5.68929	-0.06993713	0.9734819
ENSG00000099940	SNAP29	2351.928741	-0.069993484	0.786305314
ENSG00000116221	MRPL37	2602.978013	-0.070049568	0.79899734
ENSG00000287906	AC127526.5	41.45973	-0.070071	0.9404784
ENSG00000111181	SLC6A12	8.738037	-0.07012476	0.9648226
ENSG00000127663	KDM4B	1083.164987	-0.070173598	0.852856219
ENSG00000185115	NSMCE3	236.8364546	-0.070581612	0.843471949
ENSG00000204272	NBDY	1401.768535	-0.070660104	0.827223147
ENSG00000136051	WASHC4	1432.569643	-0.070853975	0.825811455
ENSG00000134247	PTGFRN	1670.797286	-0.070971617	0.844705856
ENSG00000108592	FTSJ3	2341.17806	-0.071167644	0.862367973
ENSG00000086712	TXLNG	1220.888849	-0.071280056	0.82657828
ENSG00000071127	WDR1	14514.39719	-0.071344732	0.773356594
ENSG00000104883	PEX11G	12.70753	-0.07148847	0.9594823
ENSG00000187446	CHP1	6132.83095	-0.071687593	0.849532994
ENSG00000174547	MRPL11	1099.814404	-0.071751585	0.794855222
ENSG00000070081	NUCB2	20875.17749	-0.07180744	0.849387625

ENSG00000036257	CUL3	3893.269526	-0.071902638	0.808062846
ENSG00000129158	SERGEF	137.9539432	-0.072106043	0.901928554
ENSG00000170852	KBTBD2	1009.335932	-0.072419859	0.85156349
ENSG00000169967	MAP3K2	931.9358942	-0.072423176	0.827331334
ENSG00000275437	AL121832.3	25.04687	-0.07254621	0.9432494
ENSG00000141580	WDR45B	2362.43301	-0.072771402	0.800262704
ENSG00000196646	ZNF136	128.8718832	-0.072771567	0.873068423
ENSG00000050130	JKAMP	562.3015865	-0.072893367	0.82771923
ENSG00000076321	KLHL20	376.8292761	-0.072962839	0.84928918
ENSG00000255320	AP000759.1	43.87842	-0.07306287	0.937973
ENSG00000243716	NPIPB5	179.2583146	-0.073245643	0.906201163
ENSG00000164163	ABCE1	3088.874966	-0.073548077	0.760755236
ENSG00000110628	SLC22A18	64.10165992	-0.073599034	0.915343997
ENSG00000172974	AC007318.1	62.4122105	-0.073679091	0.908293344
ENSG00000266904	LINC00663	24.5772	-0.07381028	0.9522688
ENSG00000009844	VTA1	1736.505924	-0.073876762	0.799752397
ENSG00000118496	FBXO30	460.2523824	-0.073960931	0.850523762
ENSG00000251432	LINC02615	21.24125	-0.07412046	0.9490954
ENSG00000198081	ZBTB14	302.5984744	-0.074359092	0.84439798
ENSG00000008324	SS18L2	342.3617531	-0.074598304	0.837155614
ENSG00000184903	IMMP2L	68.32349865	-0.074899704	0.902880418
ENSG00000160695	VPS11	2710.344328	-0.074927087	0.808271268
ENSG00000143119	CD53	14.71768	-0.07505116	0.9530346
ENSG00000171680	PLEKHG5	120.5548391	-0.07505552	0.875366982

ENSG00000171865	RNASEH1	279.7849959	-0.07513976	0.867108778
ENSG00000135249	RINT1	1094.218128	-0.075195065	0.79911376
ENSG00000268043	NBPF12	307.5582044	-0.075226947	0.853378958
ENSG00000095209	TMEM38B	790.9040939	-0.075457519	0.795492135
ENSG00000189241	TSPYL1	1190.498855	-0.075488695	0.791337796
ENSG00000068024	HDAC4	96.79652807	-0.075837545	0.886456182
ENSG00000179409	GEMIN4	1490.113077	-0.075996863	0.78944566
ENSG00000251580	LINC02482	7.22191	-0.0760156	0.9613482
ENSG00000196155	PLEKHG4	19.18414	-0.07603015	0.9426476
ENSG00000226976	COX6A1P2	32.1322	-0.07613009	0.9361725
ENSG00000266028	SRGAP2	1934.371617	-0.076214021	0.850126451
ENSG00000065526	SPEN	3608.167246	-0.076446812	0.852810438
ENSG00000173545	ZNF622	1368.539983	-0.076557023	0.84163704
ENSG00000156709	AIFM1	1536.49767	-0.07673153	0.798424473
ENSG00000030419	IKZF2	34.00993317	-0.07712981	0.922890272
ENSG00000159579	RSPRY1	901.6687995	-0.077423139	0.787123094
ENSG00000259426	AC027237.3	8.788776	-0.07745585	0.9647898
ENSG00000069399	BCL3	43.86336737	-0.077713681	0.923115334
ENSG00000095261	PSMD5	1547.594585	-0.078118724	0.778888151
ENSG00000064545	TMEM161A	528.5314695	-0.078308179	0.836370788
ENSG00000089916	GPATCH2L	529.5232573	-0.078384256	0.825004452
ENSG00000170802	FOXN2	1548.107663	-0.078460137	0.861821552
ENSG00000231831	MTHFD1P1	5.222901	-0.07879113	0.9669661
ENSG00000174579	MSL2	897.5879516	-0.078806292	0.81287676

ENSG00000123739	PLA2G12A	208.2627786	-0.078844749	0.876392636
ENSG00000076928	ARHGEF1	1627.892517	-0.078880859	0.810473633
ENSG00000163499	CRYBA2	43.86596275	-0.079128982	0.925843432
ENSG00000286431	BX842570.1	36.42756	-0.07919055	0.9407127
ENSG00000114948	ADAM23	2.48864	-0.07921248	0.982124
ENSG00000154945	ANKRD40	882.482364	-0.079261943	0.821306383
ENSG00000274290	HIST1H2BE	9.698885	-0.07927353	0.958668
ENSG00000106025	TSPAN12	2539.504538	-0.079473135	0.787646902
ENSG00000178974	FBXO34	927.2034671	-0.079742884	0.806945337
ENSG00000232640	AL354892.2	11.12007	-0.07974965	0.9555481
ENSG00000066933	MYO9A	718.6257915	-0.079809162	0.873102126
ENSG00000078070	MCCC1	1109.600307	-0.079853302	0.849189252
ENSG00000143951	WDPCP	29.97419477	-0.079946824	0.928520565
ENSG00000169692	AGPAT2	557.2978773	-0.080060026	0.817437364
ENSG00000033011	ALG1	420.658765	-0.080120455	0.820018683
ENSG00000162772	ATF3	10603.93979	-0.080256262	0.76723252
ENSG00000111276	CDKN1B	1113.156683	-0.080282941	0.847685183
ENSG00000072609	CHFR	1746.434033	-0.080327397	0.787646902
ENSG00000113597	TRAPPC13	794.4498272	-0.080634461	0.79899734
ENSG00000261087	AP003469.4	43.28193244	-0.080680136	0.91548304
ENSG00000105983	LMBR1	1304.196115	-0.080911411	0.75867483
ENSG00000163155	LYSMD1	540.5699573	-0.08103597	0.811548491
ENSG00000188342	GTF2F2	1271.102117	-0.081063017	0.767729861
ENSG00000062650	WAPL	3638.057878	-0.081167369	0.804809915

ENSG00000230629	RPS23P8	54.72784161	-0.081224471	0.908040271
ENSG00000137496	IL18BP	82.5600011	-0.081340928	0.891729547
ENSG00000221947	XKR9	2.360745	-0.0814667	0.983978
ENSG00000226476	LINC01748	8.409985	-0.08152563	0.9588734
ENSG00000011258	MBTD1	664.6069891	-0.081670987	0.824518296
ENSG00000131876	SNRPA1	3407.755334	-0.081743926	0.754084575
ENSG00000119844	AFTPH	2277.84586	-0.082063359	0.801663659
ENSG00000099246	RAB18	2328.977091	-0.082454448	0.790557083
ENSG00000149480	MTA2	5036.844055	-0.082803941	0.809642162
ENSG00000127481	UBR4	7982.005627	-0.082826382	0.862565231
ENSG00000120709	FAM53C	1735.495873	-0.082875396	0.845615609
ENSG00000102554	KLF5	790.2896377	-0.082892967	0.820018683
ENSG00000042781	USH2A	12.68338	-0.08358368	0.9504669
ENSG00000155506	LARP1	5974.361274	-0.083742954	0.790979519
ENSG00000143819	EPHX1	885.0164044	-0.083845016	0.804038001
ENSG00000105202	FBL	4637.431862	-0.08392018	0.728971367
ENSG00000180610	ZBTB12BP	5.441688	-0.08407362	0.9673994
ENSG00000161970	RPL26	322.7982363	-0.084087278	0.84917718
ENSG00000266993	AL050343.2	10.58423	-0.08414133	0.9534291
ENSG00000213066	FGFR1OP	108.3720546	-0.084282096	0.873102126
ENSG00000234545	FAM133B	395.2669965	-0.084395931	0.869417404
ENSG00000205744	DENND1C	781.4108002	-0.084426025	0.780367913
ENSG00000062485	CS	3586.009183	-0.084491568	0.737051919
ENSG00000105880	DLX5	263.862893	-0.08474411	0.864784339

ENSG00000139289	PHLDA1	204.9138302	-0.084772484	0.892584627
ENSG00000251303	CAB39P1	40.73335054	-0.084840964	0.910521796
ENSG00000130703	OSBPL2	2194.661633	-0.084929501	0.778045043
ENSG00000038532	CLEC16A	1046.587289	-0.084955844	0.787777363
ENSG00000184887	BTBD6	1043.775217	-0.085271831	0.774514389
ENSG00000138777	PPA2	1332.900713	-0.085517749	0.780298073
ENSG00000166902	MRPL16	705.1509541	-0.085648177	0.793642836
ENSG00000165209	STRBP	640.2353024	-0.08578229	0.808682659
ENSG00000155592	ZKSCAN2	422.0616691	-0.085953586	0.847986232
ENSG00000176055	MBLAC2	38.9361	-0.08618906	0.9366371
ENSG00000055211	GINM1	1487.844833	-0.086250978	0.743392744
ENSG00000119396	RAB14	3948.317933	-0.086287339	0.762011619
ENSG00000116095	PLEKHA3	292.9384264	-0.086996395	0.829813054
ENSG00000053900	ANAPC4	923.7493275	-0.087076378	0.809180394
ENSG00000181090	EHMT1	1723.362934	-0.087079552	0.79911376
ENSG00000285669	AC026979.4	8.75459	-0.08713216	0.9557073
ENSG00000130299	GTPBP3	1498.75117	-0.087133602	0.754572936
ENSG00000115963	RND3	1854.970221	-0.087203361	0.828167535
ENSG00000128917	DLL4	39.3627355	-0.087219653	0.925769334
ENSG00000214174	AMZ2P1	189.6678866	-0.087382227	0.844530506
ENSG00000228532	AC005000.1	12.8698	-0.08738773	0.9467922
ENSG00000112659	CUL9	287.3894111	-0.087470949	0.849189252
ENSG00000132694	ARHGEF11	1151.612647	-0.087668341	0.750257468
ENSG00000221968	FADS3	12717.97655	-0.087926507	0.817599846

ENSG00000162775	RBM15	982.7529576	-0.087940357	0.8179326
ENSG00000141026	MED9	516.6724742	-0.088025933	0.776824852
ENSG00000141380	SS18	2267.49039	-0.088085262	0.725071053
ENSG00000132819	RBM38	1125.219045	-0.08809515	0.876006409
ENSG00000065357	DGKA	1492.443805	-0.088140665	0.824980895
ENSG00000117394	SLC2A1	48120.08486	-0.088264705	0.802122289
ENSG00000155265	GOLGA7B	11.6501	-0.08842325	0.9469991
ENSG00000177034	MTX3	371.7296283	-0.088572503	0.829970198
ENSG00000151332	MBIP	407.2203012	-0.088873312	0.788861926
ENSG00000171488	LRRC8C	75.97302214	-0.088886592	0.892714527
ENSG00000261408	TEN1-CDK3	11.92783	-0.08889155	0.9516383
ENSG00000108039	XPNPEP1	2090.76329	-0.088919115	0.739122249
ENSG00000056277	ZNF280C	112.5744504	-0.089006714	0.876392636
ENSG00000183291	SELENOF	4434.163646	-0.089171565	0.69935484
ENSG00000114353	GNAI2	9984.663257	-0.089380447	0.779580979
ENSG00000171448	ZBTB26	47.05662304	-0.089525457	0.910931518
ENSG00000143256	PFDN2	1982.87438	-0.089558882	0.750257468
ENSG00000011243	AKAP8L	2768.360108	-0.089574479	0.720055115
ENSG00000169410	PTPN9	320.1920143	-0.089698354	0.79911376
ENSG00000125967	NECAB3	1657.160247	-0.089718703	0.72646816
ENSG00000111737	RAB35	2082.921432	-0.089722624	0.80772792
ENSG00000232938	RPL23AP87	46.36946	-0.0899438	0.9368181
ENSG00000159753	CARMIL2	46.65370042	-0.090201579	0.903149557
ENSG00000074071	MRPS34	1927.059918	-0.090302746	0.734062923

ENSG00000275557	AC242842.1	17.69108	-0.09031679	0.9388261
ENSG00000131236	CAP1	8573.793582	-0.090605024	0.762696914
ENSG00000214439	FAM185BP	25.99740883	-0.09062062	0.932459069
ENSG00000260418	AL023284.4	10.32648	-0.09083223	0.9555481
ENSG00000145592	RPL37	19605.24967	-0.091067946	0.719113474
ENSG00000281026	N4BP2L2-IT2	13.30784	-0.09123207	0.9502578
ENSG00000111348	ARHGDIB	1438.083194	-0.091657021	0.829973241
ENSG00000214753	HNRNPUL2	970.5141265	-0.091691764	0.762758312
ENSG00000101343	CRNKL1	890.9344297	-0.091775676	0.791691848
ENSG00000185917	SETD4	153.219112	-0.091837866	0.900168403
ENSG00000235034	C19orf81	5.374089	-0.09218762	0.9625359
ENSG00000130347	RTN4IP1	390.4767577	-0.092287799	0.807764824
ENSG00000163694	RBM47	10154.09676	-0.092413848	0.761912897
ENSG00000283023	FRG1GP	67.12619737	-0.092665818	0.876227275
ENSG00000068903	SIRT2	750.8537397	-0.092697455	0.742566213
ENSG00000134597	RBMX2	681.271253	-0.092800095	0.756085189
ENSG00000152147	GEMIN6	377.9427366	-0.093015327	0.825188226
ENSG00000197951	ZNF71	115.0308627	-0.09303502	0.857026097
ENSG00000184900	SUMO3	2177.363035	-0.093089954	0.699181907
ENSG00000154719	MRPL39	1278.423483	-0.093153059	0.812100348
ENSG00000175137	SH3BP5L	1686.229943	-0.093215674	0.701141938
ENSG00000233041	PHGR1	9.163693	-0.09329863	0.9520521
ENSG00000170448	NFXL1	1174.198784	-0.093411196	0.800063751
ENSG00000159399	HK2	8777.542232	-0.093426087	0.836370788

ENSG00000225969	ABHD11-AS1	13.22687	-0.0936164	0.9502578
ENSG00000037757	MRI1	307.0808528	-0.093684546	0.810302683
ENSG00000287560	AL731533.3	11.63944	-0.0937104	0.9555481
ENSG00000213281	NRAS	2535.43717	-0.093733252	0.719923037
ENSG00000147144	CCDC120	1970.062064	-0.093940363	0.776570782
ENSG00000132300	PTCD3	2403.636509	-0.094201593	0.733316514
ENSG00000087884	AAMDC	37.84089831	-0.094291999	0.910021339
ENSG00000084636	COL16A1	34.2925712	-0.094347841	0.924741535
ENSG00000237945	LINC00649	114.284743	-0.094433267	0.85962231
ENSG00000095587	TLL2	19.66634	-0.09444771	0.9340081
ENSG00000250159	AC106791.1	4.938362	-0.09457545	0.9702312
ENSG00000255112	CHMP1B	1798.285225	-0.094762866	0.714602181
ENSG00000224858	RPL29P11	27.2969482	-0.094919924	0.924299954
ENSG00000176542	USF3	371.2959405	-0.094937874	0.808729009
ENSG00000066583	ISOC1	1235.602964	-0.095143725	0.746255489
ENSG00000148450	MSRB2	120.3044937	-0.095324379	0.875440009
ENSG00000279656	AL132780.4	17.30206	-0.09538746	0.938457
ENSG00000141568	FOXK2	3590.509444	-0.09548637	0.780954825
ENSG00000011021	CLCN6	1484.453196	-0.095600007	0.828700439
ENSG00000168040	FADD	133.0437129	-0.095613919	0.845615609
ENSG00000101782	RIOK3	2387.248669	-0.095646808	0.695491002
ENSG00000145216	FIP1L1	2620.705113	-0.095717936	0.804077729
ENSG00000167674	HDGFL2	1002.453396	-0.096182588	0.764910693
ENSG00000111860	CEP85L	180.6632242	-0.096237528	0.873102126

ENSG00000126259	KIRREL2	20.88734	-0.09636085	0.9407127
ENSG00000120159	CAAP1	601.5103626	-0.096428873	0.788874097
ENSG00000104660	LEPROTL1	597.5752517	-0.096655046	0.778671549
ENSG00000171729	TMEM51	116.5544638	-0.096960246	0.904083934
ENSG00000170373	CST1	420.7367176	-0.097085806	0.822299942
ENSG00000134697	GNL2	3085.117673	-0.097352865	0.74169197
ENSG00000174231	PRPF8	17195.22887	-0.097437594	0.72040002
ENSG00000123933	MXD4	345.9891489	-0.097525844	0.833067513
ENSG00000083807	SLC27A5	96.40375061	-0.097858575	0.85677289
ENSG00000273706	LHX1	10.11488	-0.09791882	0.9516383
ENSG00000110934	BIN2	4968.846702	-0.09842982	0.731681411
ENSG00000167881	SRP68	8180.434334	-0.098589368	0.711725431
ENSG00000265095	FTLP12	13.24	-0.09861447	0.9441213
ENSG00000134684	YARS	5818.153853	-0.098615267	0.840629349
ENSG00000179021	C3orf38	565.4406916	-0.098718293	0.821044273
ENSG00000131462	TUBG1	3048.098101	-0.098918477	0.735969434
ENSG00000126561	STAT5A	31.59867813	-0.098922103	0.930491757
ENSG00000185627	PSMD13	6890.394003	-0.098992412	0.674410518
ENSG00000280594	BTG3-AS1	17.2541435	-0.098999841	0.928078554
ENSG00000278704	BX004987.1	9.548601	-0.09916903	0.9606861
ENSG00000274641	HIST1H2BO	128.4549538	-0.09919108	0.821504154
ENSG00000102178	UBL4A	2734.669696	-0.099209108	0.721618641
ENSG00000235655	H3F3AP4	706.0773682	-0.099465377	0.724874446
ENSG00000233846	SELENOTP1	22.02712549	-0.09974845	0.918557155

ENSG00000164300	SERINC5	2518.582977	-0.100007716	0.809272617
ENSG00000275052	PPP4R3B	3574.21424	-0.100237462	0.68549902
ENSG00000115677	HDLBP	49876.21231	-0.100587401	0.724342096
ENSG00000103528	SYT17	202.7447673	-0.100740693	0.869388002
ENSG00000196419	XRCC6	15264.98945	-0.101243872	0.662865847
ENSG00000143155	TIPRL	544.3133611	-0.10135863	0.76357723
ENSG00000096088	PGC	502.0585964	-0.101482727	0.858652194
ENSG00000110925	CSRNP2	1659.409364	-0.101525501	0.754084575
ENSG00000139613	SMARCC2	1214.465075	-0.101575346	0.788849321
ENSG00000108298	RPL19	31050.74135	-0.101577345	0.647921632
ENSG00000100600	LGMN	10569.05806	-0.101644753	0.700045783
ENSG00000249803	AC112178.1	44.34179875	-0.101720583	0.923236295
ENSG00000107281	NPDC1	143.5855872	-0.101802475	0.86362465
ENSG00000174840	PDE12	924.9449557	-0.102053699	0.711049455
ENSG00000141027	NCOR1	1809.036208	-0.102092305	0.736293618
ENSG00000113580	NR3C1	178.8394677	-0.102134892	0.83378035
ENSG00000239556	AC004951.2	5.216648	-0.1024096	0.9568212
ENSG00000018610	CXorf56	2268.261368	-0.102580153	0.70164175
ENSG00000179397	CATSPERE	4.112607	-0.1027771	0.9664786
ENSG00000204628	RACK1	43453.3127	-0.103133761	0.682058459
ENSG00000272578	AP000347.1	15.33111447	-0.103145465	0.929590171
ENSG00000100280	AP1B1	4003.728593	-0.103234748	0.714602181
ENSG00000167840	ZNF232	370.7027922	-0.103250246	0.843298621
ENSG00000079785	DDX1	6829.859015	-0.103250255	0.735969434

ENSG00000138271	GPR87	10.77309	-0.103385	0.9447847
ENSG00000116161	CACYBP	5289.215543	-0.103548257	0.66201068
ENSG00000139620	KANSL2	1272.791265	-0.103821489	0.676724651
ENSG00000235726	AC010148.1	11.46867	-0.1038414	0.9455063
ENSG00000003509	NDUFAF7	660.1935358	-0.103880116	0.761318426
ENSG00000168827	GFM1	920.5279907	-0.104021921	0.723509617
ENSG00000111877	MCM9	289.9479936	-0.104083772	0.78182064
ENSG00000286696	AC090826.3	9.060429	-0.1041277	0.9467922
ENSG00000235837	AC073333.1	8.840952	-0.1043976	0.9427163
ENSG00000008988	RPS20	12900.45491	-0.104780234	0.637672915
ENSG00000286018	AF129075.3	13.43739	-0.1048495	0.9527866
ENSG00000138792	ENPEP	4658.027625	-0.10486408	0.773641588
ENSG00000133433	GSTT2B	18.18909	-0.1051146	0.9374048
ENSG00000267605	AC016590.1	57.98031796	-0.105291851	0.900584564
ENSG00000129473	BCL2L2	726.4735744	-0.105772398	0.740764925
ENSG00000170468	RIOX1	167.2375701	-0.105838417	0.817970608
ENSG00000140323	DISP2	9.067008	-0.1058773	0.9467787
ENSG00000176485	PLAAT3	4309.626804	-0.105914632	0.80546455
ENSG00000196411	EPHB4	22235.92633	-0.105962414	0.755447439
ENSG00000170185	USP38	701.4716879	-0.106398762	0.730629881
ENSG00000243199	AC115223.1	113.2127428	-0.106442845	0.820018683
ENSG00000256771	ZNF253	210.0597792	-0.106464899	0.784816559
ENSG00000100403	ZC3H7B	4399.251195	-0.106487174	0.765817571
ENSG00000080822	CLDND1	1457.738564	-0.106829516	0.688167685

ENSG00000142959	BEST4	4.255024	-0.1068984	0.9697282
ENSG00000100225	FBXO7	3010.452113	-0.10690196	0.666771401
ENSG00000176715	ACSF3	263.3640436	-0.107035337	0.776861578
ENSG00000134470	IL15RA	10.05186	-0.1072117	0.9467922
ENSG00000021574	SPAST	873.0526919	-0.10766242	0.713487001
ENSG00000243364	EFNA4	140.7704473	-0.107675281	0.843955459
ENSG00000134900	TPP2	3628.292358	-0.107887189	0.718883106
ENSG00000137975	CLCA2	353.0416652	-0.107911666	0.803611429
ENSG00000240970	RPL23AP64	12.05426	-0.1081184	0.9443738
ENSG00000144580	CNOT9	2538.596991	-0.108151307	0.649061786
ENSG00000133134	BEX2	912.1167735	-0.108411766	0.722736947
ENSG00000148814	LRRC27	21.21415066	-0.108415855	0.923431733
ENSG00000050426	LETMD1	439.12033	-0.108432839	0.714377096
ENSG00000203880	PCMTD2	1824.049828	-0.10864427	0.760294669
ENSG00000144306	SCRN3	291.2152574	-0.108692107	0.785192518
ENSG00000186432	KPNA4	3594.324498	-0.108745222	0.653979093
ENSG00000189431	RASSF10	7.238292	-0.1087536	0.952071
ENSG00000065308	TRAM2	2431.820307	-0.108852736	0.709627887
ENSG00000242071	RPL7AP6	372.5886293	-0.109015407	0.765543777
ENSG00000275066	SYNRG	1227.552494	-0.10909454	0.696342605
ENSG00000012983	MAP4K5	1703.546684	-0.109286373	0.714524339
ENSG00000255621	AC023790.2	5.40452	-0.1096296	0.9604108
ENSG00000155792	DEPTOR	23.58002265	-0.109662559	0.925769334
ENSG00000135457	TFCP2	2490.770461	-0.109833378	0.663417274

ENSG00000114209	PDCD10	1386.449794	-0.110524752	0.722701263
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ENSG00000162407	PLPP3	1493.085083	-0.11072807	0.70803322
ENSG00000145247	OCIAD2	129.3154336	-0.110792783	0.820147587
ENSG00000224543	SNRPGP15	36.21783534	-0.111028313	0.890006386
ENSG00000184305	CCSER1	289.8675352	-0.111029391	0.798360874
ENSG00000134108	ARL8B	8508.65305	-0.111048197	0.627784917
ENSG00000100908	EMC9	268.3409001	-0.111054809	0.751291636
ENSG00000197622	CDC42SE1	5208.55545	-0.111104426	0.688903617
ENSG00000115970	THADA	832.9137997	-0.111231385	0.701141938
ENSG00000170946	DNAJC24	312.5890322	-0.111307211	0.743855363
ENSG00000227124	ZNF717	7.388406	-0.1116044	0.9536215
ENSG00000177663	IL17RA	622.552849	-0.111893837	0.71969693
ENSG00000196569	LAMA2	119.5246223	-0.112405418	0.827331334
ENSG00000132680	KHDC4	1439.549835	-0.112419457	0.734984803
ENSG00000074370	ATP2A3	990.1574255	-0.112444294	0.809272617
ENSG00000111052	LIN7A	56.72736276	-0.112513984	0.87719378
ENSG00000114933	INO80D	633.0226871	-0.112618892	0.731053122
ENSG00000100997	ABHD12	5016.285602	-0.112911042	0.660121155
ENSG00000105778	AVL9	1456.263757	-0.112990926	0.658739753
ENSG00000082438	COBLL1	12661.67458	-0.113101476	0.644321444
ENSG00000130150	MOSPD2	1156.464833	-0.113117641	0.754084575
ENSG00000072518	MARK2	6735.220177	-0.113197113	0.668248185
ENSG00000164171	ITGA2	945.1236581	-0.11329075	0.79899734

ENSG00000155545	MIER3	861.7876619	-0.113669673	0.668670564
ENSG00000109270	LAMTOR3	842.6726271	-0.113732733	0.739697846
ENSG00000170791	CHCHD7	437.326536	-0.113846088	0.720666959
ENSG00000177855	CACYBPP2	33.67785641	-0.113969669	0.886934289
ENSG00000163510	CWC22	1101.382758	-0.113983074	0.703967939
ENSG00000134982	APC	524.2495419	-0.114130281	0.760087352
ENSG00000118689	FOXO3	2290.810733	-0.114158939	0.740285382
ENSG00000143614	GATAD2B	1058.428887	-0.114233584	0.731748148
ENSG00000251247	ZNF345	61.53097892	-0.114303543	0.84206586
ENSG00000221823	PPP3R1	1050.492384	-0.114341899	0.691643296
ENSG00000187045	TMPRSS6	38.86387283	-0.114456315	0.906895566
ENSG00000177150	FAM210A	434.2513036	-0.114642031	0.699712399
ENSG00000151413	NUBPL	261.1623873	-0.114832842	0.75259448
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ENSG00000265778	AC018413.1	7.34385	-0.1149183	0.9516999
ENSG00000136478	TEX2	709.724302	-0.114972025	0.675712645
ENSG00000170445	HARS	2497.822577	-0.115066288	0.734062923
ENSG00000136682	CBWD2	480.0584341	-0.115102965	0.729337168
ENSG00000182700	IGIP	153.4747764	-0.115505	0.842855065
ENSG00000103342	GSPT1	7952.658716	-0.11554691	0.649562702
ENSG00000163040	CCDC74A	11.54933	-0.1160447	0.9367875
ENSG00000137203	TFAP2A	9460.357434	-0.11618904	0.662573913
ENSG00000085721	RRN3	451.9319522	-0.116322189	0.774514389
ENSG00000280049	AC079597.1	21.40858462	-0.116471381	0.929641168

ENSG00000100401	RANGAP1	18747.34579	-0.116633797	0.612068054
ENSG00000120699	EXOSC8	1750.560059	-0.116660141	0.695564015
ENSG00000184465	WDR27	253.6760974	-0.116697593	0.74912712
ENSG00000187555	USP7	4436.924301	-0.116898499	0.668124116
ENSG00000129911	KLF16	530.1304948	-0.11698702	0.707921179
ENSG00000147676	MAL2	554.2066115	-0.117020946	0.750320268
ENSG00000004948	CALCR	9.786029	-0.1170797	0.9400324
ENSG00000275807	AC145285.6	35.84765471	-0.117084792	0.905458289
ENSG00000237356	AL365295.1	115.4642284	-0.117132786	0.829970198
ENSG00000114062	UBE3A	1249.709353	-0.11722345	0.687786272
ENSG00000178177	LCORL	160.9664594	-0.117282436	0.801090352
ENSG00000089154	GCN1	11277.71128	-0.117404365	0.742333738
ENSG00000177706	FAM20C	5.161875	-0.1175803	0.9591978
ENSG00000166847	DCTN5	3035.719682	-0.11766447	0.67090933
ENSG00000267796	LIN37	218.6942766	-0.117780284	0.746749857
ENSG00000124171	PARD6B	975.267024	-0.118074009	0.803930526
ENSG00000105323	HNRNPUL1	6435.149044	-0.118086517	0.687146898
ENSG00000182973	CNOT10	959.3995266	-0.1181742	0.65071108
ENSG00000137815	RTF1	2358.84188	-0.118195395	0.660121155
ENSG00000197258	EIF4BP6	151.9418555	-0.118495258	0.798245693
ENSG00000179152	TCAIM	426.3638554	-0.118530259	0.718447211
ENSG00000162924	REL	265.2451752	-0.118755551	0.786305314
ENSG00000059915	PSD	21.20580086	-0.118814428	0.928520565
ENSG00000169925	BRD3	425.7723957	-0.118923659	0.718390157

ENSG00000185721	DRG1	3465.578928	-0.119081157	0.640435766
ENSG00000187266	EPOR	212.0522104	-0.119177738	0.865103291
ENSG00000159110	IFNAR2	25.08718631	-0.119302985	0.90129525
ENSG00000280433	FP565260.6	29.02550061	-0.119464271	0.90267406
ENSG00000136630	HLX	7.313908	-0.1197205	0.9441482
ENSG00000174444	RPL4	64535.10293	-0.119797774	0.644751193
ENSG00000005513	SOX8	15.84253909	-0.11996353	0.922227346
ENSG00000269696	AC005498.3	7.376679	-0.1199785	0.9465488
ENSG00000235173	HGH1	218.3273718	-0.120072029	0.803454473
ENSG00000162961	DPY30	2316.330813	-0.120193115	0.672863704
ENSG00000286614	AL589182.3	4.790578	-0.1202376	0.9557037
ENSG00000085872	CHERP	1372.68756	-0.12027828	0.718130123
ENSG00000133112	TPT1	30218.48283	-0.120684357	0.592012936
ENSG00000272941	AC083862.2	7.38953	-0.120762	0.9464818
ENSG00000163041	H3F3A	4497.404832	-0.120772111	0.62027254
ENSG00000078246	TULP3	1194.075116	-0.120799065	0.637474252
ENSG00000164306	PRIMPOL	100.405585	-0.120907737	0.836068153
ENSG00000124279	FASTKD3	118.0933745	-0.121074972	0.831192561
ENSG00000100796	PPP4R3A	6860.244059	-0.121075586	0.687620987
ENSG00000162927	PUS10	239.1268777	-0.121104657	0.814231923
ENSG00000149212	SESN3	7.701873	-0.1211781	0.9520521
ENSG00000147202	DIAPH2	140.3618534	-0.121219683	0.820631997
ENSG00000023330	ALAS1	41039.00816	-0.121300771	0.696150338
ENSG00000265413	AP001094.2	8.693159	-0.1213013	0.9394915

ENSG00000100219	XBP1	16209.67498	-0.12150016	0.679996803
ENSG00000197261	C6orf141	73.06884637	-0.121709621	0.881857203
ENSG00000115317	HTRA2	556.0799946	-0.121735812	0.721240244
ENSG00000166783	MARF1	1606.240351	-0.121738219	0.764233798
ENSG00000164329	TENT2	1107.300709	-0.121864985	0.692301808
ENSG00000155275	TRMT44	1063.332587	-0.122091153	0.623521507
ENSG00000233016	SNHG7	421.6532234	-0.122333121	0.782304221
ENSG00000171298	GAA	1994.747423	-0.122384249	0.662663666
ENSG00000146476	ARMT1	1523.418039	-0.122531876	0.627577525
ENSG00000187122	SLIT1	21.10590618	-0.122592365	0.914210886
ENSG00000236609	ZNF853	9.674336	-0.1226402	0.9378176
ENSG00000223764	LINC02593	4.799933	-0.1226596	0.9527872
ENSG00000183298	RPSAP19	10.46038018	-0.122705307	0.925928729
ENSG00000169689	CENPX	831.681809	-0.122797229	0.718130123
ENSG00000170471	RALGAPB	3711.52662	-0.123120222	0.646996599
ENSG00000182310	SPACA6	141.2316896	-0.123297738	0.80298721
ENSG00000227345	PARG	612.4863698	-0.123354688	0.690692572
ENSG00000182836	PLCXD3	5.200257	-0.1234242	0.9504371
ENSG00000154479	CCDC173	7.714724	-0.1240115	0.9540809
ENSG00000166226	CCT2	7984.359349	-0.124241562	0.719789097
ENSG00000079393	DUSP13	301.8582303	-0.1243206	0.785587904
ENSG00000011454	RABGAP1	1954.447037	-0.12432775	0.689392831
ENSG00000253626	EIF5AL1	44.01599955	-0.124591587	0.86324407
ENSG00000166897	ELFN2	57.02355269	-0.12468991	0.84725398

ENSG00000234975	FTH1P2	26.56872735	-0.124749804	0.892714527
ENSG00000139173	TMEM117	55.833269	-0.125061273	0.832143408
ENSG00000167925	GHDC	175.4608799	-0.125199543	0.749388694
ENSG00000164713	BRI3	2051.253709	-0.125244418	0.666190715
ENSG00000138018	SELENOI	2146.567122	-0.125888865	0.755447439
ENSG00000206418	RAB12	499.2950439	-0.126119394	0.721618641
ENSG00000182670	TTC3	4608.114371	-0.126255594	0.791547536
ENSG00000115616	SLC9A2	290.7590853	-0.126417993	0.846560555
ENSG00000255182	AC084125.2	21.06697768	-0.126435087	0.922381775
ENSG00000164211	STARD4	1087.856588	-0.126544733	0.797311129
ENSG00000186480	INSIG1	18076.2628	-0.126903283	0.756864534
ENSG00000182903	ZNF721	358.2748392	-0.127144016	0.700281126
ENSG00000078747	ITCH	12703.13097	-0.127393039	0.754572936
ENSG00000081014	AP4E1	1467.70449	-0.127426266	0.696148033
ENSG00000115128	SF3B6	1970.71369	-0.127463251	0.663079107
ENSG00000070047	PHRF1	2580.638621	-0.127574819	0.671794475
ENSG00000248187	AC078850.1	5.332916	-0.1278168	0.9562967
ENSG00000177051	FBXO46	1775.61926	-0.128130687	0.661964724
ENSG00000251333	RTN3P1	6.211987	-0.1281346	0.944928
ENSG00000101574	METTL4	531.1821477	-0.128151668	0.672300049
ENSG00000073417	PDE8A	921.3847735	-0.128316159	0.647921632
ENSG00000164080	RAD54L2	3804.206801	-0.128473873	0.799195684
ENSG00000103549	RNF40	2966.003105	-0.128631348	0.706339366
ENSG00000110104	CCDC86	1240.886803	-0.128749791	0.718541739

ENSG00000245149	RNF139-AS1	27.67597206	-0.129001442	0.895996939
ENSG00000171574	ZNF584	69.01761863	-0.129126676	0.849732738
ENSG00000129515	SNX6	4395.325151	-0.129232698	0.603223497
ENSG00000198042	MAK16	630.5139791	-0.12934018	0.698428899
ENSG00000155304	HSPA13	3973.859928	-0.129353185	0.610097477
ENSG00000181666	ZNF875	889.6712342	-0.129358763	0.702615764
ENSG00000214491	SEC14L6	6.60691	-0.129422	0.9415886
ENSG00000198624	CCDC69	1479.337006	-0.129598254	0.696250953
ENSG00000156500	FAM122C	303.1819449	-0.129813599	0.826451668
ENSG00000131759	RARA	131.2843239	-0.129902339	0.801859137
ENSG00000099364	FBXL19	1026.595664	-0.130039857	0.704683526
ENSG00000123595	RAB9A	4435.115318	-0.130198753	0.679582384
ENSG00000182606	TRAK1	6422.269649	-0.130237083	0.622083661
ENSG00000119689	DLST	9843.96584	-0.130245785	0.644751193
ENSG00000159921	GNE	9962.115131	-0.130294199	0.677064828
ENSG00000177380	PPFIA3	101.9103924	-0.130509146	0.795966848
ENSG00000197563	PIGN	990.8589479	-0.130591414	0.671658697
ENSG00000118762	PKD2	401.5781959	-0.130693463	0.742500414
ENSG00000224893	LINC02840	6.350145	-0.1309064	0.95247
ENSG00000120913	PDLIM2	2995.661462	-0.131113465	0.708054433
ENSG00000164244	PRRC1	5393.662942	-0.131163416	0.704417188
ENSG00000260257	AL035071.1	111.4703279	-0.131599355	0.845204577
ENSG00000175183	CSRP2	214.7377241	-0.131656039	0.744753011
ENSG00000112282	MED23	997.9090264	-0.131696895	0.649176408

ENSG00000105287	PRKD2	2508.246966	-0.131744773	0.690069414
ENSG00000157426	AASDH	499.4044509	-0.131764465	0.719908734
ENSG00000176105	YES1	3303.736372	-0.131769909	0.722897835
ENSG00000130787	HIP1R	1749.394865	-0.131874218	0.671629145
ENSG00000061794	MRPS35	1532.807741	-0.131927794	0.569065572
ENSG00000109610	SOD3	132.6263802	-0.132114243	0.790115455
ENSG00000136603	SKIL	1382.022703	-0.132230266	0.672255802
ENSG00000169228	RAB24	256.6925718	-0.132238055	0.779068954
ENSG00000186615	KTN1-AS1	195.9050032	-0.132245248	0.76723252
ENSG00000087510	TFAP2C	16387.33115	-0.132255782	0.590389044
ENSG00000122971	ACADS	249.4903116	-0.132260742	0.713330359
ENSG00000143889	HNRNPLL	331.7862332	-0.132283088	0.697169758
ENSG00000007168	PAFAH1B1	5811.603036	-0.132301569	0.652417355
ENSG00000166105	GLB1L3	155.3102893	-0.132398524	0.771170259
ENSG00000168159	RNF187	2117.25487	-0.132480404	0.636908364
ENSG00000249550	LINC01234	6.639253	-0.1328333	0.9486562
ENSG00000253584	AC091987.1	30.49736226	-0.132912787	0.866505873
ENSG00000101558	VAPA	5319.622134	-0.132926325	0.574231827
ENSG00000183018	SPNS2	80.35205895	-0.132971922	0.825188226
ENSG00000237424	FOXD2-AS1	10.23147653	-0.132986182	0.928589053
ENSG00000109475	RPL34	8376.036875	-0.133694209	0.556637109
ENSG00000129128	SPCS3	3392.377648	-0.133891411	0.610708336
ENSG00000009830	POMT2	946.0937175	-0.134138458	0.612068054
ENSG00000164219	PGGT1B	314.8822439	-0.134173093	0.72458133

ENSG00000107140	TESK1	298.6887409	-0.134411165	0.762265036
ENSG00000132341	RAN	15583.66767	-0.134476882	0.628174671
ENSG00000035681	NSMAF	1373.764856	-0.134535819	0.616114547
ENSG00000110436	SLC1A2	1645.053345	-0.135061407	0.789151555
ENSG00000110422	HIPK3	1494.0579	-0.135083555	0.738333214
ENSG00000113812	ACTR8	777.0725146	-0.135290329	0.616460308
ENSG00000186603	HPDL	236.7175758	-0.135299268	0.778696645
ENSG00000277400	AC145212.1	5.299997	-0.1353726	0.9577598
ENSG00000188611	ASAH2	11.98562963	-0.135463457	0.922776107
ENSG00000189320	FAM180A	10.17501	-0.1355115	0.9367875
ENSG00000221988	PPT2	455.3220212	-0.135698935	0.687786272
ENSG00000227201	CNN2P1	8.500361	-0.1357409	0.9411547
ENSG00000161813	LARP4	3409.748377	-0.135848521	0.629442082
ENSG00000213326	RPS7P11	20.78844597	-0.135936426	0.890156714
ENSG00000164815	ORC5	515.9019779	-0.136324392	0.728116587
ENSG00000149489	ROM1	6.869109	-0.136399	0.9400324
ENSG00000163131	CTSS	10.98809	-0.1364566	0.9384521
ENSG00000091039	OSBPL8	1142.022767	-0.136793309	0.722535532
ENSG00000089057	SLC23A2	2243.098741	-0.136828679	0.665425826
ENSG00000113282	CLINT1	5108.456169	-0.136947288	0.598144832
ENSG00000235363	SNRPGP10	252.9913021	-0.136977551	0.725396511
ENSG00000139131	YARS2	607.6918784	-0.13709796	0.610716317
ENSG00000172062	SMN1	582.5939649	-0.137261653	0.662270034
ENSG00000185561	TLCD2	61.85318151	-0.137629125	0.821658389

ENSG00000185950	IRS2	622.1860837	-0.137687133	0.696250953
ENSG00000120526	NUDCD1	479.2643491	-0.137808439	0.671860293
ENSG00000083812	ZNF324	172.4944473	-0.13796146	0.804418834
ENSG00000111615	KRR1	641.5849322	-0.137963108	0.682058459
ENSG00000112033	PPARD	15216.27377	-0.138002329	0.679416532
ENSG00000123689	G0S2	24.01974973	-0.13819501	0.907988991
ENSG00000196586	MYO6	5561.222365	-0.138309553	0.634040231
ENSG00000143067	ZNF697	1715.254954	-0.138401899	0.689771985
ENSG00000239883	PARGP1	34.95859077	-0.13847129	0.868793294
ENSG00000278129	ZNF8	169.0036161	-0.138557234	0.718476244
ENSG00000204392	LSM2	1160.851771	-0.13858687	0.646528677
ENSG00000100036	SLC35E4	18.98301321	-0.13864724	0.897162163
ENSG00000196656	AC004057.1	203.3936695	-0.138787533	0.759992676
ENSG00000106299	WASL	2488.418782	-0.138833319	0.660057712
ENSG00000100129	EIF3L	8424.819073	-0.13943904	0.552488343
ENSG00000232656	IDI2-AS1	41.9074116	-0.139758637	0.894004064
ENSG00000198830	HMGN2	11026.69892	-0.139829219	0.659946918
ENSG00000151229	SLC2A13	80.67517257	-0.140400047	0.81003687
ENSG00000130175	PRKCSH	11974.53175	-0.140593462	0.578219329
ENSG00000157933	SKI	1932.113361	-0.140597724	0.659272032
ENSG00000135046	ANXA1	83411.41723	-0.140658408	0.707227156
ENSG00000162614	NEXN	17.93579957	-0.140723498	0.911030373
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ENSG00000280798	LINC00294	163.0267569	-0.141057128	0.757902611
ENSG00000121390	PSPC1	4153.04162	-0.141142517	0.682525242
ENSG00000100387	RBX1	2926.810973	-0.141467218	0.6029443
ENSG00000274414	AL121772.1	3.357118	-0.1416277	0.9607478
ENSG00000092439	TRPM7	1551.327902	-0.141643589	0.650687382
ENSG00000102893	PHKB	3470.060124	-0.141798773	0.672932885
ENSG00000083844	ZNF264	430.719464	-0.142053676	0.720919796
ENSG00000179051	RCC2	4306.699907	-0.142315339	0.58152802
ENSG00000182919	C11orf54	306.288767	-0.142346711	0.690755181
ENSG00000265478	AC107982.3	3.615517	-0.1423469	0.95247
ENSG00000253570	RNF5P1	41.11606318	-0.142500251	0.855326044
ENSG00000120437	ACAT2	5166.064644	-0.142641538	0.649176408
ENSG00000145354	CISD2	325.8258169	-0.142749518	0.668202439
ENSG00000219470	AL355802.1	3.486355	-0.1428047	0.9575073
ENSG00000153157	SYCP2L	148.8996311	-0.14306653	0.744753011
ENSG00000147883	CDKN2B	46.40603252	-0.14312105	0.878431068
ENSG00000198576	ARC	10.95358017	-0.143260027	0.91563348
ENSG00000113312	TTC1	2295.780465	-0.143263675	0.647921632
ENSG00000154874	CCDC144B	30.33781339	-0.143428431	0.885671321
ENSG00000241399	CD302	7.303763	-0.1435922	0.9409566
ENSG00000131620	ANO1	657.2989913	-0.143704473	0.899501818
ENSG00000145414	NAF1	322.1734171	-0.143855265	0.704417188
ENSG00000249258	AC079193.2	15.64775219	-0.143982384	0.908769423
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ENSG00000105401	CDC37	14091.96993	-0.144325142	0.556173103
ENSG00000120149	MSX2	10078.26018	-0.144647205	0.626897218
ENSG00000151388	ADAMTS12	10.8075848	-0.144683357	0.923115334
ENSG00000135744	AGT	9.207272318	-0.144879856	0.917261721
ENSG00000260710	AC120498.4	253.216625	-0.144913132	0.750130321
ENSG00000134970	TMED7	2159.749854	-0.145036473	0.544523644
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ENSG00000101189	MRGBP	624.6167759	-0.145381359	0.684732157
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ENSG00000140022	STON2	62.84260418	-0.14582239	0.839897283
ENSG00000160593	JAML	6.050511	-0.1460152	0.9394915
ENSG00000136699	SMPD4	3339.058223	-0.146065369	0.592500463
ENSG00000169136	ATF5	379.9508306	-0.146067929	0.724256606
ENSG00000167207	NOD2	4.781033	-0.1461002	0.9505702
ENSG00000197353	LYPD2	7.631672	-0.1464824	0.9516999
ENSG00000137166	FOXP4	763.0990435	-0.146506707	0.648581871
ENSG00000085063	CD59	4090.45355	-0.14667383	0.673234117
ENSG00000279425	AC092279.2	3.852976	-0.146801	0.9544495
ENSG00000133773	CCDC59	889.4072509	-0.147188981	0.686311388
ENSG00000178184	PARD6G	64.51800515	-0.147375211	0.800345178
ENSG00000108604	SMARCD2	5652.859649	-0.147564633	0.613203004
ENSG00000153363	LINC00467	78.34305984	-0.14770279	0.825109922
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ENSG00000116885	OSCP1	52.09638596	-0.148062907	0.820018683
ENSG00000271992	AL354872.2	15.77023125	-0.148085769	0.903347617
ENSG00000143374	TARS2	1171.374097	-0.148158934	0.671860293
ENSG00000139637	C12orf10	656.1822751	-0.148235348	0.588980956
ENSG00000081870	HSPB11	241.7218504	-0.148361296	0.673473796
ENSG00000135912	TTLL4	3373.781405	-0.148402652	0.549061868
ENSG00000119383	PTPA	5402.784961	-0.148737982	0.536844652
ENSG00000273306	AC018690.1	33.71609294	-0.148759665	0.891521217
ENSG00000154079	SDHAF4	59.10188531	-0.148975244	0.831192561
ENSG00000260990	Z94057.1	23.95232087	-0.149313897	0.903064753
ENSG00000148484	RSU1	1367.621126	-0.149387206	0.63374102
ENSG00000163939	PBRM1	1843.593248	-0.149478093	0.631176453
ENSG00000078699	CBFA2T2	720.7946455	-0.149491259	0.698844414
ENSG00000144909	OSBPL11	2383.96806	-0.149566013	0.647796752
ENSG00000116183	PAPPA2	64.59568696	-0.149635229	0.797298815
ENSG00000177873	ZNF619	66.33067899	-0.149673455	0.815267068
ENSG00000230330	HMGN2P3	103.1626974	-0.149744108	0.764229557
ENSG00000261504	LINC01686	8.854832	-0.1500322	0.9419082
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ENSG00000166579	NDEL1	3487.720747	-0.150159757	0.603223497
ENSG00000118007	STAG1	1806.050411	-0.150312848	0.621657166
ENSG00000165916	PSMC3	10556.33137	-0.150333243	0.533914597
ENSG00000137154	RPS6	41834.85775	-0.150431849	0.492922053
ENSG00000169826	CSGALNACT2	137.71204	-0.150602767	0.756085189

ENSG00000121671	CRY2	849.3875178	-0.150705234	0.60780407
ENSG00000119522	DENND1A	5374.930656	-0.15093598	0.726990432
ENSG00000167699	GLOD4	2061.626018	-0.151046681	0.536974253
ENSG00000108100	CCNY	1890.534987	-0.151169624	0.637661491
ENSG00000197714	ZNF460	83.13167512	-0.151444703	0.820631997
ENSG00000009954	BAZ1B	2900.573813	-0.1520587	0.572978521
ENSG00000176155	CCDC57	165.7712745	-0.152119748	0.722400824
ENSG00000178074	C2orf69	730.7693438	-0.152341907	0.614076425
ENSG00000013275	PSMC4	7088.579108	-0.152399633	0.567755885
ENSG00000111110	PPM1H	869.4524927	-0.15240846	0.708233914
ENSG00000158158	CNNM4	2186.990272	-0.152653332	0.559520786
ENSG00000180875	GREM2	1759.219429	-0.152679528	0.746808828
ENSG00000166478	ZNF143	2623.874018	-0.152696677	0.642300122
ENSG00000186010	NDUFA13	31.53149772	-0.152723904	0.876392636
ENSG00000167815	PRDX2	3224.505376	-0.152770616	0.495398171
ENSG00000283683	MYOCOS	2.948392	-0.1527966	0.9654787
ENSG00000141556	TBCD	2850.587875	-0.152844534	0.596643893
ENSG00000101844	ATG4A	676.3181878	-0.153039713	0.631626706
ENSG00000100220	RTCB	4951.346086	-0.153152765	0.489049401
ENSG00000140365	COMMD4	913.8175753	-0.153157075	0.611095638
ENSG00000157107	FCHO2	1610.951775	-0.153168873	0.5791058
ENSG00000198034	RPS4X	44848.06292	-0.153177657	0.475305147
ENSG00000135048	CEMIP2	13200.6399	-0.153401271	0.597657346
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ENSG00000095139	ARCN1	11292.57499	-0.153502765	0.574404985
ENSG00000131724	IL13RA1	1064.927446	-0.153534538	0.536212923
ENSG00000144747	TMF1	3120.421919	-0.153566608	0.552640484
ENSG00000118922	KLF12	18.6705027	-0.153993582	0.887109801
ENSG00000101191	DIDO1	1498.585537	-0.154117295	0.63980388
ENSG00000106086	PLEKHA8	2814.82567	-0.154139798	0.592391397
ENSG00000053524	MCF2L2	39.3254105	-0.154242226	0.83086174
ENSG00000205707	ETFRF1	160.2288303	-0.154470055	0.786305314
ENSG00000127586	CHTF18	2057.906744	-0.154484617	0.605588375
ENSG00000236682	MAP3K2-DT	11.53995293	-0.154562507	0.910742737
ENSG00000240204	SMKR1	6.079077	-0.154645	0.9374818
ENSG00000286959	AC104383.2	8.188012101	-0.154665045	0.926158128
ENSG00000159882	ZNF230	114.7568314	-0.154838865	0.785880832
ENSG00000136754	ABI1	2522.52101	-0.154866346	0.566904494
ENSG00000176915	ANKLE2	2778.551953	-0.155082381	0.536096201
ENSG00000101407	TTI1	1799.120279	-0.155088182	0.534776329
ENSG00000160131	VMA21	504.3770156	-0.155115263	0.687034893
ENSG00000141456	PELP1	3516.58611	-0.155714973	0.534104284
ENSG00000122692	SMU1	3337.500625	-0.155881279	0.506131224
ENSG00000070018	LRP6	1015.634103	-0.155923379	0.720158401
ENSG00000130529	TRPM4	218.5999312	-0.155940658	0.707408137
ENSG00000106123	EPHB6	21.35071754	-0.155951204	0.891283149
ENSG00000243244	STON1	247.9834523	-0.156288472	0.799690352
ENSG00000128271	ADORA2A	4.100547	-0.1562924	0.9480971

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ENSG00000242299	AC073861.1	109.9787969	-0.15642396	0.783172537
ENSG00000099942	CRKL	5936.767962	-0.156834327	0.634503098
ENSG00000274512	TBC1D3L	121.5685155	-0.15695616	0.791691848
ENSG00000142453	CARM1	4010.448213	-0.157003171	0.621657166
ENSG00000196504	PRPF40A	4193.502856	-0.157263311	0.525312459
ENSG00000068650	ATP11A	4656.856248	-0.15731257	0.675712645
ENSG00000108946	PRKAR1A	2443.082366	-0.157544924	0.607401699
ENSG00000116815	CD58	27.67976668	-0.157700791	0.857026097
ENSG00000254860	TMEM9B-AS1	19.26668512	-0.157762343	0.873102126
ENSG00000236603	RANP1	33.33832769	-0.157947681	0.861006902
ENSG00000163814	CDCP1	1530.771069	-0.157949073	0.603265088
ENSG00000142937	RPS8	26422.5116	-0.158108179	0.502346676
ENSG00000285665	AL031274.1	5.74572	-0.1581919	0.935455
ENSG00000277258	PCGF2	420.1607648	-0.158307408	0.605242698
ENSG00000127124	HIVEP3	10.60873295	-0.158369666	0.908349896
ENSG00000127980	PEX1	846.1514464	-0.158428962	0.60715634
ENSG00000277998	AC107075.1	5.140678	-0.1584778	0.9429571
ENSG00000164002	EXO5	31.91511708	-0.158507123	0.875259118
ENSG00000145332	KLHL8	1718.602195	-0.158602549	0.569065572
ENSG00000105821	DNAJC2	1256.530774	-0.158940947	0.70361144
ENSG00000243477	NAA80	290.1333838	-0.159047278	0.770529834
ENSG00000087495	PHACTR3	4.669134	-0.1591017	0.9527866
ENSG00000137547	MRPL15	3090.811195	-0.159138622	0.553181137

ENSG00000287413	AL449363.2	7.462394	-0.1595603	0.9344854
ENSG00000198242	RPL23A	9473.14786	-0.159594304	0.443702592
ENSG00000166046	TCP11L2	1035.548053	-0.159681118	0.641898838
ENSG00000186281	GPAT2	33.89725468	-0.159711246	0.853501444
ENSG00000116030	SUMO1	2136.735052	-0.159805926	0.52967507
ENSG00000007314	SCN4A	26.67210092	-0.159839226	0.898584031
ENSG00000165685	TMEM52B	168.297868	-0.159875583	0.715752282
ENSG00000205639	MFSD2B	19.73114987	-0.160037307	0.892580485
ENSG00000173085	COQ2	128.6269064	-0.160188282	0.723509617
ENSG00000224114	AL591846.1	62.95414689	-0.160219025	0.799158097
ENSG00000178694	NSUN3	45.01839475	-0.160267749	0.806178725
ENSG00000108510	MED13	9348.779612	-0.160393976	0.684415675
ENSG00000171517	LPAR3	19.06984618	-0.160440825	0.882473503
ENSG00000196227	FAM217B	255.7620595	-0.160465055	0.69314285
ENSG00000235056	AC010983.1	3.877779	-0.1605911	0.9564123
ENSG00000061656	SPAG4	54.71476636	-0.160796945	0.808422707
ENSG00000133794	ARNTL	511.8860111	-0.160855292	0.689613726
ENSG00000230982	DSTNP1	6.092719196	-0.160937209	0.927666056
ENSG00000158604	TMED4	4144.566738	-0.160943807	0.553783514
ENSG00000181240	SLC25A41	12.52486334	-0.16106454	0.915771161
ENSG00000204444	APOM	11.56557504	-0.161069753	0.91078796
ENSG00000171634	BPTF	2059.097075	-0.161082434	0.556173103
ENSG00000112739	PRPF4B	2374.446086	-0.161149064	0.647379205
ENSG00000189212	DPY19L2P1	12.22398035	-0.161279039	0.914151162

ENSG00000254162	AC009812.3	40.43949423	-0.161475278	0.882342658
ENSG00000198900	TOP1	12333.32847	-0.161518774	0.495815573
ENSG00000255026	AC136475.3	4.154252	-0.1616007	0.947408
ENSG00000169169	CPT1C	16.32271402	-0.162017295	0.898721798
ENSG00000158467	AHCYL2	461.2697397	-0.162485153	0.59744791
ENSG00000049246	PER3	19.18482522	-0.162602287	0.877850853
ENSG00000072163	LIMS2	14.0549687	-0.162643462	0.908144293
ENSG00000130254	SAFB2	1648.55303	-0.162979145	0.653209865
ENSG00000125454	SLC25A19	228.7830874	-0.163007025	0.675997713
ENSG00000144224	UBXN4	2452.890059	-0.163024128	0.562966057
ENSG00000196636	SDHAF3	121.4164854	-0.163157326	0.746808828
ENSG00000115966	ATF2	394.9445794	-0.163244941	0.670873241
ENSG00000182872	RBM10	2864.216716	-0.16336004	0.521926402
ENSG00000108953	YWHAE	18495.23122	-0.163425267	0.495230015
ENSG00000261118	AC092123.1	6.329487553	-0.163638889	0.927666056
ENSG00000116731	PRDM2	979.3176777	-0.164278586	0.613759141
ENSG00000143970	ASXL2	1614.985042	-0.164293306	0.596031053
ENSG00000117595	IRF6	1874.341722	-0.164430027	0.612716699
ENSG00000274756	AC243732.1	4.380883	-0.1644831	0.9443738
ENSG00000068383	INPP5A	771.3094293	-0.164486532	0.652937278
ENSG00000072201	LNX1	1654.481703	-0.164774355	0.726376855
ENSG00000243725	TTC4	5.812672	-0.1650611	0.9343536
ENSG00000186591	UBE2H	9237.593253	-0.16534489	0.557165647
ENSG00000162222	TTC9C	927.0804046	-0.165362896	0.573500529

ENSG00000166888	STAT6	867.6848584	-0.165377615	0.66211031
ENSG00000082516	GEMIN5	578.1562832	-0.165380242	0.565997974
ENSG00000139218	SCAF11	2501.570482	-0.165443826	0.522864146
ENSG00000111647	UHRF1BP1L	652.5226893	-0.165678857	0.666361875
ENSG00000082684	SEMA5B	11.36750927	-0.165855544	0.913463211
ENSG00000184992	BRI3BP	479.3630246	-0.165991355	0.640081591
ENSG00000116128	BCL9	481.3092126	-0.166109087	0.731224059
ENSG00000233836	AC139769.1	240.6131268	-0.166237462	0.617408675
ENSG00000234602	MCIDAS	8.352842081	-0.166266464	0.925769334
ENSG00000142235	LMTK3	1414.58062	-0.166566142	0.610097477
ENSG00000105519	CAPS	31.92732325	-0.166709011	0.83378035
ENSG00000287222	AC234917.3	48.57711441	-0.166884469	0.812620089
ENSG00000285219	HULC	9.288576169	-0.167172391	0.922608696
ENSG00000110841	PPFIBP1	5612.583717	-0.167218552	0.523573819
ENSG00000118997	DNAH7	4.833354	-0.1673293	0.9411547
ENSG00000113583	C5orf15	751.2193879	-0.167464764	0.571205151
ENSG00000090565	RAB11FIP3	649.6266323	-0.16760069	0.653214213
ENSG00000136021	SCYL2	3006.149669	-0.167631875	0.525001483
ENSG00000084090	STARD7	5484.305255	-0.167675856	0.549187923
ENSG00000028203	VEZT	3399.049753	-0.167798124	0.471551618
ENSG00000254004	ZNF260	241.034184	-0.167802446	0.651294182
ENSG00000132912	DCTN4	2561.948599	-0.167818791	0.469060506
ENSG00000162736	NCSTN	5646.685038	-0.167837825	0.435549659
ENSG00000250602	AC093535.1	15.67148903	-0.167993579	0.887324389

ENSG00000097033	SH3GLB1	3448.027712	-0.167998726	0.499798795
ENSG00000166477	LEO1	1220.578535	-0.167998919	0.497362929
ENSG00000138069	RAB1A	14969.23585	-0.168269878	0.478956057
ENSG00000129518	EAPP	1394.988886	-0.168621887	0.542431699
ENSG00000178386	ZNF223	9.660203363	-0.168725361	0.91078796
ENSG00000163882	POLR2H	2753.202336	-0.168755748	0.541062954
ENSG00000149428	HYOU1	23432.24452	-0.168919204	0.610500184
ENSG00000115652	UXS1	1608.394761	-0.169136178	0.567356125
ENSG00000174485	DENND4A	369.538544	-0.169303521	0.722681038
ENSG00000134575	ACP2	621.3978591	-0.169361244	0.628174671
ENSG00000108239	TBC1D12	537.2274081	-0.16942154	0.685550688
ENSG00000164040	PGRMC2	11501.54977	-0.169492821	0.472190045
ENSG00000060971	ACAA1	1215.203054	-0.169872333	0.504762131
ENSG00000113441	LNPEP	1180.324562	-0.169981751	0.510976253
ENSG00000070831	CDC42	10522.53845	-0.170185601	0.440707128
ENSG00000137364	TPMT	1898.023975	-0.170262139	0.515651478
ENSG00000099250	NRP1	1152.438696	-0.171230741	0.679115398
ENSG00000196704	AMZ2	927.0027878	-0.171671173	0.514175163
ENSG00000178814	OPLAH	452.9287077	-0.171935158	0.717804191
ENSG00000035499	DEPDC1B	7180.515063	-0.172076584	0.535340733
ENSG00000137513	NARS2	877.5430009	-0.172142759	0.494377359
ENSG00000001167	NFYA	1744.718489	-0.172462247	0.560129308
ENSG00000013583	HEBP1	273.8093546	-0.172534504	0.608451626
ENSG00000112149	CD83	52.32523459	-0.172535231	0.815768052

ENSG00000141101	NOB1	2141.261521	-0.172558155	0.450522386
ENSG00000277728	AC097641.2	6.130283053	-0.172842039	0.92524836
ENSG00000171566	PLRG1	1707.449133	-0.172853359	0.490032984
ENSG00000280046	AC104581.4	4.107187	-0.1728954	0.9552575
ENSG00000260261	AC124944.2	21.85236367	-0.173023584	0.852810438
ENSG00000152133	GPATCH11	507.1709434	-0.17304705	0.549119765
ENSG00000172339	ALG14	153.1846111	-0.173306595	0.672992419
ENSG00000172936	MYD88	951.8530099	-0.173493129	0.637661491
ENSG00000172059	KLF11	165.3398708	-0.173499029	0.747520583
ENSG00000226137	BAIAP2-DT	133.6965661	-0.173499625	0.747307836
ENSG00000075089	ACTR6	2457.325133	-0.173762858	0.63156994
ENSG00000160392	C19orf47	1450.281639	-0.173776028	0.611039644
ENSG00000134058	CDK7	2229.706759	-0.173818112	0.459426716
ENSG00000148180	GSN	2648.980461	-0.173837698	0.563366068
ENSG00000108187	PBLD	36.65723756	-0.17403326	0.829268792
ENSG00000254093	PINX1	176.3311338	-0.174116052	0.657395676
ENSG00000166123	GPT2	9443.214512	-0.17413688	0.698309906
ENSG00000106070	GRB10	795.9265896	-0.174280361	0.518755994
ENSG00000198429	ZNF69	648.5589999	-0.174285351	0.578533315
ENSG00000198018	ENTPD7	1308.279906	-0.174457365	0.690755181
ENSG00000140992	PDPK1	2767.163008	-0.174496545	0.511138107
ENSG00000205795	CYS1	7.68046837	-0.174624558	0.926144206
ENSG00000224383	PRR29	4.299014	-0.1748806	0.946576
ENSG00000168566	SNRNP48	422.3533706	-0.174987061	0.588274665

ENSG00000109762	SNX25	258.5375877	-0.175031279	0.63255034
ENSG00000101773	RBBP8	452.6930973	-0.175076646	0.551339593
ENSG00000134453	RBM17	1989.767865	-0.175178372	0.498912569
ENSG00000170222	ADPRM	35.29922671	-0.175262586	0.827331334
ENSG00000233527	ZNF529-AS1	56.63880112	-0.175642362	0.82812558
ENSG00000107147	KCNT1	5.297556662	-0.175729596	0.928078554
ENSG00000155008	APOOL	779.1149515	-0.175752418	0.535974083
ENSG00000174780	SRP72	11019.32443	-0.17582033	0.485105741
ENSG00000198556	ZNF789	74.10565353	-0.175898288	0.779828286
ENSG00000101160	CTSZ	5693.229081	-0.175921397	0.550402287
ENSG00000115353	TACR1	86.42281539	-0.176072586	0.757060611
ENSG00000198918	RPL39	15538.28918	-0.176110253	0.457216546
ENSG00000107521	HPS1	485.2151625	-0.176125562	0.591462683
ENSG00000188612	SUMO2	3561.335232	-0.176469853	0.442022918
ENSG00000132510	KDM6B	2071.837895	-0.176512888	0.650463247
ENSG00000068028	RASSF1	604.4471697	-0.176534955	0.72673741
ENSG00000099783	HNRNPM	7990.782416	-0.176595641	0.495815573
ENSG00000166913	YWHAB	9484.478757	-0.176839861	0.457756203
ENSG00000113552	GNPDA1	506.8895107	-0.176844946	0.62200953
ENSG00000143977	SNRPG	4061.741167	-0.176984428	0.477760755
ENSG00000116752	BCAS2	1551.594694	-0.177040337	0.50196996
ENSG00000150938	CRIM1	8652.396265	-0.177267337	0.445970837
ENSG00000133393	FOPNL	642.4053704	-0.177321431	0.505863835
ENSG00000134905	CARS2	774.9910197	-0.177484423	0.492157222

ENSG00000077232	DNAJC10	6608.9272	-0.177705048	0.496084307
ENSG00000141391	PRELID3A	5.186749833	-0.177862353	0.928589053
ENSG00000101928	MOSPD1	3067.08335	-0.178060322	0.567736772
ENSG00000230897	RPS18P12	14.05728249	-0.17806885	0.888173372
ENSG00000175197	DDIT3	1093.65789	-0.178072358	0.543785037
ENSG00000134851	TMEM165	991.9397639	-0.178223828	0.583260736
ENSG00000126464	PRR12	804.5543779	-0.178509506	0.672330948
ENSG00000078269	SYNJ2	1596.432021	-0.178595356	0.508014451
ENSG00000048649	RSF1	529.0414886	-0.178845616	0.589892945
ENSG00000270091	AC015726.1	5.529387	-0.1788862	0.9455451
ENSG00000223374	AC005104.1	8.083298305	-0.178899655	0.922173964
ENSG00000261286	ATP2C2-AS1	16.40178628	-0.178961167	0.88923649
ENSG00000131389	SLC6A6	1954.374275	-0.17897476	0.679416532
ENSG00000132164	SLC6A11	11.55284315	-0.179167906	0.908769423
ENSG00000235245	AL360181.2	23.22745818	-0.179580963	0.869342922
ENSG00000119638	NEK9	1796.997884	-0.179861216	0.4772645
ENSG00000008710	PKD1	371.2621598	-0.180060738	0.666248185
ENSG00000168724	DNAJC21	3187.306409	-0.180207895	0.603151564
ENSG00000176853	FAM91A1	2237.915543	-0.18036174	0.494494927
ENSG00000178567	EPM2AIP1	194.1969535	-0.180403917	0.677442773
ENSG00000161547	SRSF2	2810.019852	-0.180577945	0.592369309
ENSG00000143409	MINDY1	342.1350124	-0.180676806	0.591880808
ENSG00000270124	AC092127.2	8.173922792	-0.180940485	0.921411316
ENSG00000234428	AC023051.1	7.451324311	-0.180949465	0.924299954

ENSG00000164885	CDK5	557.5143079	-0.181259151	0.63740524
ENSG00000165406	MARCH8	101.8571685	-0.181603926	0.706469889
ENSG00000273748	AL592183.1	51.85607272	-0.181680833	0.807883105
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ENSG00000139974	SLC38A6	311.6633589	-0.182030192	0.569250558
ENSG00000112367	FIG4	457.8336232	-0.182371193	0.633342972
ENSG00000173409	ARV1	231.5639621	-0.182378481	0.67407665
ENSG00000149089	APIP	304.0276388	-0.182589007	0.631817509
ENSG00000144218	AFF3	4.351094	-0.1828916	0.9396699
ENSG00000096746	HNRNPH3	4275.05222	-0.182987983	0.507272507
ENSG00000124164	VAPB	1919.014662	-0.183051529	0.498058461
ENSG00000198700	IPO9	3935.74137	-0.18309005	0.433601284
ENSG00000235734	HMGN1P36	5.784121	-0.1831234	0.9367875
ENSG00000157483	MYO1E	2590.670583	-0.183319423	0.671516234
ENSG00000165912	PACSIN3	1212.012393	-0.183413213	0.654733759
ENSG00000155229	MMS19	2482.143492	-0.183456724	0.468957089
ENSG00000143322	ABL2	913.0882165	-0.183566474	0.650463247
ENSG00000163399	ATP1A1	8706.524373	-0.183567165	0.54645233
ENSG00000196683	TOMM7	2028.011206	-0.183570936	0.442450078
ENSG00000248905	FMN1	1428.701858	-0.183912545	0.704809854
ENSG00000162702	ZNF281	1315.646885	-0.183923945	0.510768919
ENSG00000138463	SLC49A4	16823.41392	-0.184091803	0.474034299
ENSG00000167065	DUSP18	36.10717332	-0.184133614	0.798455447
ENSG00000052344	PRSS8	4460.328631	-0.184172671	0.638093426

ENSG00000145700	ANKRD31	3.246153	-0.1842025	0.9623868
ENSG00000089195	TRMT6	1196.064335	-0.184315037	0.613889322
ENSG00000236364	AL358115.1	6.502479973	-0.184579007	0.913053753
ENSG00000182827	ACBD3	3400.37588	-0.185128516	0.611765116
ENSG00000120217	CD274	6227.691013	-0.185131702	0.53787037
ENSG00000087274	ADD1	3438.502696	-0.185389365	0.452989748
ENSG00000064763	FAR2	14585.83353	-0.185446624	0.47927955
ENSG00000087111	PIGS	3677.15891	-0.185551799	0.562109714
ENSG00000095539	SEMA4G	301.7351663	-0.185559527	0.630419433
ENSG00000074657	ZNF532	1974.461697	-0.185726914	0.529276005
ENSG00000088881	EBF4	7.643564977	-0.185839489	0.924187274
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ENSG00000162409	PRKAA2	107.1171267	-0.185982757	0.708177162
ENSG00000087077	TRIP6	4291.050457	-0.186034532	0.549477916
ENSG00000086504	MRPL28	1259.868096	-0.186231496	0.434586752
ENSG00000153029	MR1	654.3455825	-0.18625382	0.637386844
ENSG00000120733	KDM3B	1739.120109	-0.186270016	0.515261505
ENSG00000132664	POLR3F	290.1032961	-0.186402772	0.691945942
ENSG00000254612	AP001000.1	59.90398009	-0.186446759	0.74022827
ENSG00000109189	USP46	628.710443	-0.186594879	0.522523287
ENSG00000105219	CNTD2	38.65546849	-0.186659677	0.820631997
ENSG00000187808	SOWAHD	66.10386338	-0.186707429	0.792966106
ENSG00000037280	FLT4	13.19511182	-0.186875912	0.891945607
ENSG00000239306	RBM14	1592.734092	-0.186928107	0.541531523

ENSG00000229419	RALGAPA1P1	17.07190998	-0.186991161	0.865095689
ENSG00000110046	ATG2A	7202.179405	-0.18705947	0.616460209
ENSG00000185507	IRF7	4194.40309	-0.187271365	0.643531655
ENSG00000237491	LINC01409	38.33945258	-0.187331404	0.822058183
ENSG00000067248	DHX29	2370.569819	-0.187351932	0.503871795
ENSG00000231764	DLX6-AS1	23.20261697	-0.187378696	0.862919798
ENSG00000114098	ARMC8	1424.058419	-0.187509803	0.419028047
ENSG00000182628	SKA2	1203.638793	-0.187696695	0.502346676
ENSG00000139625	MAP3K12	119.2489528	-0.187705052	0.667977152
ENSG00000182040	USH1G	5.532796	-0.1877552	0.937604
ENSG00000287725	AP003071.5	9.334028506	-0.187964182	0.910288351
ENSG00000131504	DIAPH1	13643.05768	-0.188047119	0.462762072
ENSG00000242612	DECR2	108.7892458	-0.188049133	0.711039358
ENSG00000083838	ZNF446	39.60009605	-0.188083902	0.83512849
ENSG00000135480	KRT7	16219.17962	-0.188378616	0.634243705
ENSG00000183674	LINC00518	22.63180668	-0.188453649	0.832740125
ENSG00000157570	TSPAN18	6.108581647	-0.188461888	0.915771161
ENSG00000189298	ZKSCAN3	192.4165608	-0.188724258	0.646445145
ENSG00000167721	TSR1	3105.236619	-0.18879942	0.458299638
ENSG00000095752	IL11	7.59711075	-0.188801059	0.916500747
ENSG00000116670	MAD2L2	453.0412098	-0.189159351	0.671294706
ENSG00000179455	MKRN3	81.37996606	-0.189244695	0.705513896
ENSG00000275011	AC129492.6	9.251237247	-0.189346074	0.909564839
ENSG00000125089	SH3TC1	3494.37664	-0.189491895	0.626337389

ENSG00000133028	SCO1	1273.700303	-0.189776261	0.438347064
ENSG00000136238	RAC1	7946.925021	-0.189845084	0.419963129
ENSG00000185049	NELFA	1266.660417	-0.18986764	0.469279052
ENSG00000085511	MAP3K4	4368.355973	-0.189931893	0.507639555
ENSG00000119285	HEATR1	1687.967922	-0.189944144	0.529836288
ENSG00000254109	RBPMS-AS1	8.93046332	-0.190315265	0.914151162
ENSG00000166747	AP1G1	5520.005339	-0.190405067	0.472773805
ENSG00000196700	ZNF512B	1057.849107	-0.1906218	0.575197194
ENSG00000166398	KIAA0355	2233.279532	-0.190945877	0.689720988
ENSG00000115421	PAPOLG	410.1837626	-0.190951864	0.531795581
ENSG00000203326	ZNF525	452.2642317	-0.191158466	0.637661491
ENSG00000186197	EDARADD	357.8352603	-0.191241335	0.54630747
ENSG00000165502	RPL36AL	4045.814331	-0.191275682	0.379310953
ENSG00000116353	MECR	832.1687692	-0.191283088	0.530603393
ENSG00000143621	ILF2	11207.05797	-0.191328514	0.387129104
ENSG00000261512	AC092368.3	40.73649455	-0.19134559	0.820018683
ENSG00000230989	HSBP1	1437.821926	-0.191491453	0.425601736
ENSG00000160299	PCNT	1497.747941	-0.191698068	0.571251081
ENSG00000082068	WDR70	913.5967921	-0.191737579	0.439839916
ENSG00000119906	SLF2	937.3132573	-0.191840702	0.494846557
ENSG00000148154	UGCG	247.8111338	-0.191932314	0.571244557
ENSG00000159658	EFCAB14	3081.808898	-0.191933108	0.50603899
ENSG00000231991	ANXA2P2	166.761623	-0.192044117	0.596643537
ENSG00000235437	LINC01278	445.0580528	-0.192374515	0.518731982

ENSG00000130348	QRSL1	1317.151265	-0.192420647	0.528018196
ENSG00000187147	RNF220	614.2214528	-0.192488376	0.527058056
ENSG00000145632	PLK2	2711.117969	-0.192599538	0.56583233
ENSG00000139370	SLC15A4	228.5740889	-0.192600389	0.650687382
ENSG00000197785	ATAD3A	1598.020631	-0.19269416	0.533165417
ENSG00000165416	SUGT1	1095.041771	-0.192747077	0.47306338
ENSG00000088538	DOCK3	30.82537429	-0.192763331	0.818583371
ENSG00000168904	LRRC28	429.6318252	-0.192813203	0.559810353
ENSG00000235284	SNORD62A	5.874076358	-0.192854512	0.92030133
ENSG00000171817	ZNF540	9.227377976	-0.192922317	0.903840163
ENSG00000151348	EXT2	2537.404127	-0.193034463	0.362892428
ENSG00000135750	KCNK1	235.9966755	-0.193152382	0.880982638
ENSG00000132031	MATN3	39.83902459	-0.193264821	0.791380969
ENSG00000112031	MTRF1L	154.6028033	-0.193438461	0.691071349
ENSG00000039560	RAI14	18733.43675	-0.193502095	0.439184016
ENSG00000152669	CCNO	73.57288854	-0.193753238	0.757926417
ENSG00000128891	CCDC32	130.0923652	-0.193784048	0.713696734
ENSG00000203809	LIN28B-AS1	7.897362424	-0.193851502	0.902340165
ENSG00000230457	PA2G4P4	7.646871336	-0.193882964	0.903466027
ENSG00000005059	MCUB	791.8568588	-0.194436972	0.520940117
ENSG00000177614	PGBD5	9.383024189	-0.19458774	0.906517465
ENSG00000261326	LINC01355	31.85309553	-0.194948198	0.820112004
ENSG00000165121	AL353743.1	21.84677787	-0.195025115	0.852810438
ENSG00000258819	LINC02289	29.27780896	-0.195031609	0.870363077

ENSG00000175066	GK5	487.8584829	-0.195101625	0.71897374
ENSG00000162813	BPNT1	1124.489813	-0.195330849	0.468707444
ENSG00000164983	TMEM65	26.83932145	-0.195394241	0.836005787
ENSG00000285053	TBCE	36.80319658	-0.195492175	0.789423641
ENSG00000137434	C6orf52	20.49103376	-0.195570935	0.839935451
ENSG00000219410	AC125494.1	3.552199	-0.1955815	0.9426476
ENSG00000108021	TASOR2	1911.108271	-0.195740893	0.608951218
ENSG00000213881	NPM1P6	17.35646627	-0.195946407	0.85760896
ENSG00000196923	PDLIM7	586.4031204	-0.195959257	0.51450719
ENSG00000213024	NUP62	2890.871087	-0.196021303	0.481130297
ENSG00000105186	ANKRD27	1194.638685	-0.196199799	0.62699544
ENSG00000116701	NCF2	10.65757036	-0.19628287	0.916007599
ENSG00000001497	LAS1L	1504.432757	-0.196398409	0.426050596
ENSG00000142867	BCL10	269.5379426	-0.196483795	0.581812285
ENSG00000140853	NLRC5	16.12692654	-0.196806689	0.872049648
ENSG00000148795	CYP17A1	10.58699762	-0.196959621	0.898932243
ENSG00000177200	CHD9	343.2133484	-0.197004625	0.681066198
ENSG00000003989	SLC7A2	8374.831847	-0.197038996	0.503605143
ENSG00000198722	UNC13B	1183.219062	-0.197049526	0.622999078
ENSG00000168685	IL7R	30.20269903	-0.197060334	0.812107711
ENSG00000123329	ARHGAP9	3.806553	-0.1971578	0.9345253
ENSG00000266094	RASSF5	15.71003365	-0.197214973	0.87669561
ENSG00000157881	PANK4	799.7225962	-0.197286377	0.624487267
ENSG00000112137	PHACTR1	6.527102088	-0.197321769	0.913004555

ENSG00000214189	ZNF788P	7.832362485	-0.197397724	0.898095696
ENSG00000223813	AC007255.1	6.601036	-0.1976109	0.938457
ENSG00000235944	ZNF815P	20.25209878	-0.197924374	0.836806057
ENSG00000140406	TLNRD1	269.83038	-0.19816446	0.589643377
ENSG00000233828	LINC01949	386.284235	-0.19823028	0.710304717
ENSG00000101079	NDRG3	635.0705451	-0.198256822	0.463130896
ENSG00000153130	SCOC	529.0147438	-0.198568352	0.613009328
ENSG00000253210	AC040970.1	18.61717896	-0.198589278	0.868161466
ENSG00000149547	EI24	5809.893344	-0.198633895	0.340625413
ENSG00000225383	SFTA1P	3.809087	-0.199018	0.9399105
ENSG00000118855	MFSD1	1222.146026	-0.1994999	0.445747521
ENSG00000158161	EYA3	1217.584412	-0.199653611	0.448256237
ENSG00000060688	SNRNP40	1385.588517	-0.199823847	0.410843656
ENSG00000279348	AC012513.3	3.670875	-0.199886	0.9407127
ENSG00000169871	TRIM56	1174.05823	-0.199931602	0.532136341
ENSG00000163683	SMIM14	1419.985593	-0.200410533	0.688326581
ENSG00000187522	HSPA14	1043.241467	-0.200564682	0.508185361
ENSG00000174748	RPL15	26059.21307	-0.200896961	0.345498131
ENSG00000232024	LSM12P1	25.27533391	-0.200909248	0.806843861
ENSG00000272347	AC116351.2	4.646365286	-0.201119097	0.932093381
ENSG00000085224	ATRX	894.5429893	-0.201168383	0.505702279
ENSG00000038002	AGA	525.7230298	-0.201196569	0.458299638
ENSG00000137575	SDCBP	18434.23564	-0.201333099	0.348541856
ENSG00000162413	KLHL21	1379.233457	-0.201349624	0.60174368

ENSG00000186687	LYRM7	108.4963761	-0.201486302	0.652917828
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ENSG00000155846	PPARGC1B	71.18860166	-0.201682623	0.713880088
ENSG00000141499	WRAP53	434.3777396	-0.201942603	0.653220313
ENSG00000064419	TNPO3	2607.132869	-0.202022492	0.442113727
ENSG00000167747	C19orf48	2634.283178	-0.202087422	0.49998554
ENSG00000274712	AC005332.4	9.279212778	-0.202090344	0.888598809
ENSG00000155975	VPS37A	2049.611783	-0.202147393	0.361366614
ENSG00000241506	PSMC1P1	148.8336918	-0.202211315	0.672255802
ENSG00000240731	AL139287.1	47.45899375	-0.202578776	0.764233798
ENSG00000240021	TEX35	4.301901	-0.2026443	0.9392987
ENSG00000118849	RARRES1	72.45007331	-0.202834083	0.754689283
ENSG00000104892	KLC3	24.80930681	-0.202923897	0.831192561
ENSG00000197930	ERO1A	3053.308124	-0.203089878	0.500124132
ENSG00000142556	ZNF614	612.6358336	-0.203225472	0.419956128
ENSG00000286677	AP006545.3	3.259795	-0.2032733	0.9532482
ENSG00000141219	C17orf80	879.4289642	-0.203411824	0.437057735
ENSG00000233230	AC079807.1	65.03629676	-0.203432675	0.718130123
ENSG00000225137	DYNC1I2P1	17.62801479	-0.20344154	0.839645887
ENSG00000269473	AC012313.8	2.865339	-0.203644	0.9437907
ENSG00000038274	MAT2B	877.2782803	-0.203900109	0.414707034
ENSG00000172301	COPRS	427.5530442	-0.204112473	0.644432588
ENSG00000020426	MNAT1	510.7006821	-0.204235023	0.562966057

ENSG00000188856	RPSAP47	320.9276529	-0.204302914	0.585438019
ENSG00000285103	AL451123.1	21.54435873	-0.204484036	0.850523762
ENSG00000125970	RALY	3597.078877	-0.204795668	0.365611072
ENSG00000232186	AL137013.1	2.73793	-0.204856	0.9498397
ENSG00000089820	ARHGAP4	30.33070565	-0.205614296	0.812620089
ENSG00000232027	AL671986.1	3.118427	-0.2056513	0.9426726
ENSG00000234415	RPL5P7	2.737444	-0.2057521	0.9555481
ENSG00000134049	IER3IP1	314.8798837	-0.205969674	0.644424763
ENSG00000172738	TMEM217	7.357799492	-0.206117335	0.911981952
ENSG00000153147	SMARCA5	6363.504356	-0.206242678	0.415771748
ENSG00000250312	ZNF718	107.7868854	-0.206341517	0.656536512
ENSG00000158985	CDC42SE2	891.2881488	-0.206476753	0.41893371
ENSG00000154001	PPP2R5E	1838.518013	-0.206625501	0.46874178
ENSG00000158856	DMTN	51.46980933	-0.207065534	0.795492135
ENSG00000162419	GMEB1	1774.679655	-0.207150864	0.528401419
ENSG00000132432	SEC61G	2910.311945	-0.207336652	0.508014451
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ENSG00000117682	DHDDS	3211.676323	-0.20770152	0.412696977
ENSG00000163626	COX18	229.6451424	-0.207750835	0.653688044
ENSG00000154316	TDH	9.171052333	-0.20779091	0.893315759
ENSG00000119471	HSDL2	1208.550768	-0.207791802	0.408018236
ENSG00000149609	C20orf144	15.01081875	-0.207793337	0.853343374
ENSG00000137996	RTCA	1244.240671	-0.207867938	0.371113481

ENSG00000248740	LINC02428	20.15099744	-0.208016742	0.848814486
ENSG00000169241	SLC50A1	1880.853698	-0.208020707	0.486687189
ENSG00000169118	CSNK1G1	486.7753994	-0.208522216	0.469200052
ENSG00000129083	COPB1	9465.909726	-0.208710335	0.413240304
ENSG00000227218	AL157935.1	38.60247706	-0.208716447	0.804077729
ENSG00000230176	LINC01433	11.27115574	-0.208854874	0.908421388
ENSG00000180817	PPA1	2908.87553	-0.208958197	0.354679347
ENSG00000014641	MDH1	4128.036619	-0.209132502	0.376699833
ENSG00000246090	AP002026.1	34.46318256	-0.20921814	0.801322615
ENSG00000185009	AP3M1	2139.391533	-0.209256577	0.377971549
ENSG00000215114	UBXN2B	431.8745571	-0.209322377	0.447417388
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ENSG00000109381	ELF2	771.8395557	-0.210098642	0.457550248
ENSG00000126870	WDR60	232.1593062	-0.210180576	0.541467643
ENSG00000103035	PSMD7	4193.868158	-0.21020447	0.368257926
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ENSG00000158769	F11R	5172.62785	-0.210282572	0.321040145
ENSG00000117139	KDM5B	4120.512416	-0.21055136	0.530939125
ENSG00000136938	ANP32B	7949.16185	-0.210695475	0.385549543
ENSG00000131013	PPIL4	734.2737414	-0.21078188	0.425029152
ENSG00000124523	SIRT5	48.30784008	-0.210917567	0.750320268
ENSG00000164190	NIPBL	2250.13035	-0.210925379	0.477150601
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ENSG00000123342	MMP19	2235.199348	-0.211272876	0.540913848
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ENSG00000279759	AC118344.2	43.15146721	-0.211357169	0.796853946
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ENSG00000157985	AGAP1	1914.992429	-0.212560997	0.50193979
ENSG00000104897	SF3A2	2809.496167	-0.212980635	0.399702572
ENSG00000255561	FDXACB1	30.49727963	-0.213117793	0.793324575
ENSG00000169896	ITGAM	6.448274215	-0.213232909	0.90062045
ENSG00000160256	FAM207A	716.8035482	-0.213328636	0.425029152
ENSG00000167996	FTH1	14080.03044	-0.213527385	0.444526862
ENSG00000137331	IER3	2187.075303	-0.213570779	0.4772645
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ENSG00000134186	PRPF38B	1817.82282	-0.213703214	0.439652892
ENSG00000174456	C12orf76	134.6897177	-0.213741334	0.708845311
ENSG00000140740	UQCRC2	5046.121597	-0.213781186	0.306849012

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ENSG00000070778	PTPN21	5612.326448	-0.213960875	0.519099713
ENSG00000130699	TAF4	1897.400704	-0.214011758	0.4074196
ENSG00000166822	TMEM170A	945.1965179	-0.214178749	0.420144898
ENSG00000159445	THEM4	447.4305839	-0.214298407	0.575909495
ENSG00000227676	LINC01068	5.12494167	-0.214406226	0.92795734
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ENSG00000279518	AC083843.4	24.01444143	-0.214844507	0.858282049
ENSG00000000419	DPM1	2525.953671	-0.215416049	0.348126785
ENSG00000198015	MRPL42	1685.984716	-0.215452005	0.416266306
ENSG00000237883	DGUOK-AS1	9.896406517	-0.215462344	0.895182529
ENSG00000238222	MKRN4P	290.4473006	-0.21551296	0.605469851
ENSG00000234405	Z69733.1	9.916538855	-0.215555352	0.888173372
ENSG00000175054	ATR	529.2934142	-0.215847167	0.57946786
ENSG00000169213	RAB3B	329.2931701	-0.21592404	0.628634382
ENSG00000174010	KLHL15	396.4463303	-0.216137483	0.571663245
ENSG00000108669	CYTH1	1150.54456	-0.216202382	0.444022766
ENSG00000187775	DNAH17	35.04387518	-0.216306599	0.776824852
ENSG00000106144	CASP2	899.7060394	-0.216697477	0.444022766
ENSG00000066322	ELOVL1	3092.713132	-0.216699428	0.339718609
ENSG00000116903	EXOC8	570.8156127	-0.216967624	0.477870396
ENSG00000186806	VSIG10L	5.214744435	-0.217028062	0.92087232
ENSG00000134910	STT3A	13214.74818	-0.217113966	0.297068678

ENSG00000109911	ELP4	371.0558645	-0.217115727	0.529338721
ENSG00000203485	INF2	5554.591453	-0.217150688	0.434412027
ENSG00000176014	TUBB6	3579.904227	-0.21734234	0.47240661
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ENSG00000089737	DDX24	5727.09089	-0.217659722	0.311302271
ENSG00000122218	COPA	15423.20055	-0.217768084	0.481606951
ENSG00000046651	OFD1	2218.056965	-0.217999275	0.411649749
ENSG00000276805	AL133216.2	64.54852297	-0.218097547	0.710885695
ENSG00000241839	PLEKHO2	884.8416154	-0.218548287	0.639243963
ENSG00000159761	C16orf86	5.997059019	-0.218554281	0.911172593
ENSG00000128340	RAC2	74.68075778	-0.218639239	0.76280811
ENSG00000196873	CBWD3	49.30914918	-0.218743348	0.723164573
ENSG00000169087	HSPBAP1	2265.086928	-0.219109285	0.426806142
ENSG00000204371	EHMT2	1197.856763	-0.219368635	0.498459015
ENSG00000219200	RNASEK	110.8240539	-0.2193781	0.667991681
ENSG00000149929	HIRIP3	584.8787916	-0.219494349	0.500171237
ENSG00000285560	AC103739.3	4.23239	-0.2197404	0.9394094
ENSG00000185972	CCIN	132.8351012	-0.219888354	0.695978684
ENSG00000103429	BFAR	1424.231541	-0.220247696	0.339718609
ENSG00000023734	STRAP	8525.25105	-0.22045735	0.41776009
ENSG00000141279	NPEPPS	5698.982445	-0.220717413	0.400774368
ENSG00000097021	ACOT7	1240.303998	-0.220886307	0.439084881
ENSG00000111358	GTF2H3	801.1659841	-0.220917336	0.453946929
ENSG00000185015	CA13	10.76819458	-0.220972691	0.892714527

ENSG00000141577	CEP131	237.1460364	-0.221179014	0.634404146
ENSG00000105835	NAMPT	1347.879854	-0.221366721	0.384394113
ENSG00000183020	AP2A2	1986.250474	-0.221648801	0.308921773
ENSG00000276234	TADA2A	319.2719611	-0.221829996	0.537910758
ENSG00000175354	PTPN2	1181.085397	-0.222249527	0.327022883
ENSG00000254469	AP002495.1	34.47340429	-0.222508744	0.761597915
ENSG00000153487	ING1	1536.543682	-0.222673705	0.405923828
ENSG00000127080	IPPK	992.7391506	-0.222922241	0.534315837
ENSG00000033627	ATP6V0A1	5191.228587	-0.223200341	0.531602706
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ENSG00000232063	AL691447.2	6.789514065	-0.223324922	0.914668358
ENSG00000242028	HYPK	24.98630966	-0.223426018	0.813669283
ENSG00000178082	TWF1P1	13.32208038	-0.223633004	0.849189252
ENSG00000141127	PRPSAP2	883.4502645	-0.223841571	0.345223942
ENSG00000165630	PRPF18	123.2165511	-0.22389789	0.59403988
ENSG00000273983	HIST1H3G	5.04601375	-0.223974766	0.922425947
ENSG00000171970	ZNF57	31.98621743	-0.224001099	0.787474209
ENSG00000204843	DCTN1	3272.154894	-0.224168052	0.284562378
ENSG00000122741	DCAF10	1305.162724	-0.224301923	0.416971715
ENSG00000237506	RPSAP15	69.63481783	-0.224413776	0.694728478
ENSG00000196363	WDR5	2239.340816	-0.224449214	0.296109221
ENSG00000254598	CSNK2A3	18.09857318	-0.224510565	0.835441333
ENSG00000226432	AC010342.1	5.520216871	-0.224531367	0.903260388
ENSG00000167460	TPM4	22578.75829	-0.224606994	0.28904819

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ENSG00000198843	SELENOT	17960.9231	-0.224781818	0.358511907
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ENSG00000102241	HTATSF1	4049.218124	-0.225197196	0.296497266
ENSG00000260404	AC110079.1	156.3508178	-0.225315072	0.612383783
ENSG00000107897	ACBD5	494.6526918	-0.225315901	0.577944102
ENSG00000076108	BAZ2A	10467.90253	-0.22558949	0.534718145
ENSG00000015676	NUDCD3	1934.301127	-0.225851479	0.362429431
ENSG00000169994	MYO7B	17.02137598	-0.225879382	0.863060588
ENSG00000138095	LRPPRC	10562.49789	-0.225915858	0.300800844
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ENSG00000135477	KRT87P	9.294265639	-0.226102054	0.88701902
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ENSG00000104611	SH2D4A	3799.745551	-0.227153837	0.339686846
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ENSG00000009413	REV3L	994.3701819	-0.22728357	0.563832109
ENSG00000160216	AGPAT3	1139.557265	-0.227369393	0.40905463
ENSG00000171055	FEZ2	3378.774643	-0.227566114	0.349814779
ENSG00000135679	MDM2	9498.610057	-0.227813053	0.433303487
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ENSG00000146122	DAAM2	18.7184963	-0.228216207	0.823068713
ENSG00000171155	C1GALT1C1	531.1355364	-0.228357401	0.426175291
ENSG00000171314	PGAM1	6518.168115	-0.228607772	0.30109208
ENSG00000198087	CD2AP	2917.406422	-0.228811886	0.475391785
ENSG00000237523	LINC00857	460.0385657	-0.228846921	0.569054828
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ENSG00000060709	RIMBP2	6.364916595	-0.228980649	0.895587255
ENSG00000164117	FBXO8	532.5894882	-0.229060569	0.423637279
ENSG00000198898	CAPZA2	1426.061233	-0.229264883	0.332733035
ENSG00000156313	RPGR	139.8704646	-0.229344765	0.590588632
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ENSG00000184428	TOP1MT	746.9770152	-0.229524912	0.455620163
ENSG00000165119	HNRNPK	19357.47913	-0.229901214	0.235667462
ENSG00000164741	DLC1	28.26049543	-0.230068793	0.791380969
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ENSG00000124782	RREB1	5393.47435	-0.230376745	0.437267463

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ENSG00000152454	ZNF256	165.2765674	-0.230586201	0.551380747
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ENSG00000160551	TAOK1	2425.721655	-0.231036825	0.41243169
ENSG00000119541	VPS4B	2094.295185	-0.231129949	0.337361358
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ENSG00000113657	DPYSL3	33.98143005	-0.231819236	0.811894579
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ENSG00000131370	SH3BP5	2729.317221	-0.244877284	0.295526144
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ENSG00000163138	PACRGL	49.32028605	-0.251938303	0.68162475
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ENSG00000155313	USP25	3582.269642	-0.253676551	0.331244795
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ENSG00000163166	IWS1	7315.856969	-0.254806248	0.293149688
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ENSG00000139239	RPL14P1	94.01597635	-0.256053025	0.575763938
ENSG00000064607	SUGP2	526.938663	-0.256288649	0.374675118
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ENSG00000204138	PHACTR4	723.0018456	-0.25695969	0.49242356
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ENSG00000106077	ABHD11	2335.177882	-0.257485934	0.365866582
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ENSG00000182718	ANXA2	51529.92613	-0.258254688	0.207076728
ENSG00000069956	MAPK6	4318.904819	-0.258258322	0.461284934
ENSG00000167523	SPATA33	32.8370918	-0.258266621	0.781480374
ENSG00000105993	DNAJB6	5777.263376	-0.258334411	0.312417361
ENSG00000157833	GAREM2	30.25543497	-0.258800252	0.735969434
ENSG00000270012	AC232271.1	6.406739132	-0.25892619	0.916598406
ENSG00000249898	MCPH1-AS1	18.42673847	-0.25896684	0.8307581
ENSG00000108342	CSF3	2.800692	-0.2590655	0.9368181
ENSG00000197083	ZNF300P1	23.77989563	-0.259094411	0.800345178
ENSG00000147421	HMBOX1	401.9376108	-0.259141012	0.511388443

ENSG00000165816	VWA2	8.887205231	-0.259170081	0.86734987
ENSG00000024862	CCDC28A	993.2309734	-0.259263631	0.327672718
ENSG00000151883	PARP8	437.5735161	-0.259322914	0.440218079
ENSG00000273247	AC097376.3	36.58721596	-0.259364947	0.735833137
ENSG00000066654	THUMPD1	1245.644249	-0.259560289	0.351183198
ENSG00000280303	ERICD	25.6455365	-0.259687441	0.746808828
ENSG00000179564	LSMEM2	5.898640316	-0.259712197	0.897893814
ENSG00000135972	MRPS9	317.2686818	-0.260210415	0.440008678
ENSG00000146963	LUC7L2	692.266407	-0.26023173	0.359601612
ENSG00000133706	LARS	7220.072563	-0.260317308	0.347288984
ENSG00000127914	AKAP9	2645.930746	-0.260571218	0.377971549
ENSG00000112305	SMAP1	233.1972406	-0.260667591	0.48916992
ENSG00000185818	NAT8L	109.3254431	-0.260705001	0.633419172
ENSG00000170293	CMTM8	299.3707478	-0.26070971	0.556514506
ENSG00000187257	RSBN1L	650.4247409	-0.260733809	0.392156954
ENSG00000213236	YWHAZP2	8.394367593	-0.260747766	0.88546406
ENSG00000137502	RAB30	102.5487724	-0.260776086	0.584803796
ENSG00000127463	EMC1	4005.790083	-0.260790525	0.250286465
ENSG00000184432	COPB2	13050.16555	-0.2608103	0.302947425
ENSG00000160746	ANO10	2509.09979	-0.260886476	0.37363094
ENSG00000004864	SLC25A13	1921.161515	-0.26127359	0.268517661
ENSG00000043514	TRIT1	846.4522866	-0.2612996	0.286744386
ENSG00000183779	ZNF703	8158.862376	-0.261322031	0.247832357
ENSG00000112584	FAM120B	669.2449817	-0.261440755	0.329308561

ENSG00000166900	STX3	3274.231067	-0.261574709	0.335924133
ENSG00000154040	CABYR	6.226235277	-0.261734335	0.887966762
ENSG00000159374	M1AP	229.0435723	-0.261851443	0.465085716
ENSG00000134215	VAV3	1951.19688	-0.262169134	0.408902949
ENSG00000113140	SPARC	7320.604026	-0.262239583	0.288278825
ENSG00000167614	TTYH1	157.2048473	-0.262422111	0.610091116
ENSG00000140612	SEC11A	4460.671774	-0.262478326	0.222646517
ENSG00000250337	PURPL	539.1007186	-0.262537329	0.614206233
ENSG00000107372	ZFAND5	3892.539809	-0.262549788	0.310074487
ENSG00000133624	ZNF767P	188.7897664	-0.263047087	0.519120893
ENSG00000224861	YBX1P1	22.85450453	-0.263076515	0.783992299
ENSG00000178607	ERN1	3384.419528	-0.263151902	0.366707732
ENSG00000186283	TOR3A	629.5326659	-0.263156434	0.408657075
ENSG00000175073	VCPIP1	1249.746227	-0.263266718	0.349316192
ENSG00000104635	SLC39A14	1253.785491	-0.263539698	0.532379754
ENSG00000132953	XPO4	1700.569962	-0.263595843	0.223770437
ENSG00000197024	ZNF398	969.4232898	-0.263709352	0.500780606
ENSG00000260518	BMS1P8	42.24542102	-0.263780896	0.737074432
ENSG00000142784	WDTC1	1108.680386	-0.26395383	0.408358441
ENSG00000144357	UBR3	2207.093044	-0.264076285	0.34853055
ENSG00000185658	BRWD1	2598.936191	-0.26409817	0.51979882
ENSG00000154370	TRIM11	2032.558045	-0.264326135	0.35194323
ENSG00000126107	HECTD3	1390.882659	-0.264421795	0.290428729
ENSG00000160602	NEK8	149.3224965	-0.264480691	0.524092342

ENSG00000169174	PCSK9	10.85166506	-0.264519922	0.845887882
ENSG00000188242	AC010442.1	7.588513258	-0.26470767	0.900194204
ENSG00000141446	ESCO1	1153.530419	-0.264904471	0.403284349
ENSG00000023516	AKAP11	1035.725337	-0.265176854	0.301833162
ENSG00000228305	AC016734.1	19.48592088	-0.265272294	0.801322615
ENSG00000088836	SLC4A11	74.89460061	-0.265273205	0.640112749
ENSG00000165671	NSD1	1592.42846	-0.265279203	0.338782408
ENSG00000276291	FRG1HP	52.38913746	-0.265451406	0.65425208
ENSG00000088205	DDX18	1610.021295	-0.265505151	0.326795441
ENSG00000117713	ARID1A	3126.974176	-0.265786144	0.480182529
ENSG00000121413	ZSCAN18	176.21644	-0.265886606	0.610091116
ENSG00000166526	ZNF3	445.2617282	-0.265933001	0.38676272
ENSG00000168028	RPSA	42050.05748	-0.2659757	0.190951203
ENSG00000166233	ARIH1	4014.559371	-0.265981955	0.24925381
ENSG00000178301	AQP11	482.7550597	-0.266240535	0.436432671
ENSG00000105220	GPI	4092.881352	-0.26634423	0.225082651
ENSG00000127328	RAB3IP	674.6209404	-0.266377786	0.431003916
ENSG00000120055	C10orf95	5.304351016	-0.26639646	0.891906028
ENSG00000103642	LACTB	371.8989969	-0.266626027	0.327022883
ENSG00000136527	TRA2B	5809.283345	-0.266680264	0.239332379
ENSG00000122378	PRXL2A	514.7612667	-0.266691923	0.45894378
ENSG00000143624	INTS3	1807.959934	-0.266824805	0.2576435
ENSG00000140396	NCOA2	1850.639026	-0.266983791	0.348707501
ENSG00000031003	FAM13B	350.7060191	-0.267008972	0.51356435

ENSG00000225742	LINC02036	4.47977432	-0.267024205	0.925895331
ENSG00000117697	NSL1	510.9366553	-0.267174083	0.376054415
ENSG00000165312	OTUD1	228.7258533	-0.267368226	0.426851921
ENSG00000180304	OAZ2	1021.636256	-0.267559246	0.3261178
ENSG00000141349	G6PC3	640.3976892	-0.267567222	0.269798427
ENSG00000248508	SRP14-AS1	58.11461932	-0.267653172	0.656947252
ENSG00000013503	POLR3B	1585.98581	-0.267832537	0.250130136
ENSG00000235313	HM13-IT1	6.591468362	-0.267868982	0.867806868
ENSG00000243667	WDR92	24.67632384	-0.267973661	0.811362136
ENSG00000154027	AK5	40.57467593	-0.267980908	0.717839764
ENSG00000110723	EXPH5	1642.291102	-0.26802436	0.501291402
ENSG00000110344	UBE4A	2049.820009	-0.268159543	0.278285616
ENSG00000224854	CDKN2A-DT	8.977527611	-0.268407549	0.863083671
ENSG00000131149	GSE1	16413.56002	-0.268588723	0.221286772
ENSG00000149187	CELF1	3374.702485	-0.268759542	0.286656861
ENSG00000083093	PALB2	214.199493	-0.268779387	0.45410277
ENSG00000120500	ARR3	5.921637552	-0.268857274	0.892689834
ENSG00000117528	ABCD3	1829.977594	-0.268858819	0.303138899
ENSG00000137710	RDX	13177.47965	-0.269036535	0.226825678
ENSG00000092531	SNAP23	904.0452083	-0.269093609	0.397235937
ENSG00000257576	HSPD1P4	4.765690471	-0.269141999	0.908040271
ENSG00000136159	NUDT15	1562.894182	-0.269279574	0.203566797
ENSG00000224389	C4B	334.0014916	-0.269536173	0.867806868
ENSG00000226329	AC005682.1	13.25703015	-0.269652612	0.858358247

ENSG00000116199	FAM20B	937.0636627	-0.26969086	0.414645245
ENSG00000159082	SYNJ1	5525.963386	-0.269716066	0.428518123
ENSG00000136044	APPL2	728.9027503	-0.269751194	0.289699482
ENSG00000185485	SDHAP1	333.9124236	-0.269964927	0.348722729
ENSG00000139496	NUP58	6408.761276	-0.27012082	0.451048922
ENSG00000147799	ARHGAP39	88.46257454	-0.270337413	0.606643788
ENSG00000184840	TMED9	15592.76168	-0.270402982	0.203162073
ENSG00000186654	PRR5	3387.530084	-0.270575097	0.297120177
ENSG00000125826	RBCK1	1363.180889	-0.270820004	0.364878292
ENSG00000235652	AL356599.1	8.841220614	-0.270831882	0.86734987
ENSG00000011478	QPCTL	362.8141019	-0.271021771	0.596599011
ENSG00000107829	FBXW4	586.222639	-0.271079139	0.426769771
ENSG00000165105	RASEF	49.95653305	-0.271383785	0.704316009
ENSG00000155330	C16orf87	373.2999516	-0.271384656	0.367964143
ENSG00000011332	DPF1	22.63029714	-0.27139792	0.805886133
ENSG00000106799	TGFBR1	251.5054149	-0.271879344	0.431786414
ENSG00000165280	VCP	36045.91437	-0.271900931	0.203375698
ENSG00000072135	PTPN18	1141.721696	-0.272467415	0.344850263
ENSG00000237264	FTH1P11	7.264433587	-0.2725061	0.860938453
ENSG00000166750	SLFN5	192.2411907	-0.272527486	0.709627887
ENSG00000117906	RCN2	3163.637973	-0.272600631	0.254407791
ENSG00000225178	RPSAP58	724.4925074	-0.272640525	0.249345376
ENSG00000188185	LINC00265	58.69018724	-0.272698295	0.634040231
ENSG00000182809	CRIP2	3753.703599	-0.27299738	0.361274686

ENSG00000138411	HECW2	152.4094163	-0.273039206	0.487477443
ENSG00000085185	BCORL1	2528.500109	-0.273576802	0.327916853
ENSG00000174132	FAM174A	179.9321772	-0.273606638	0.431600158
ENSG00000173933	RBM4	151.3533294	-0.273723765	0.444764005
ENSG00000156990	RPUSD3	574.6455125	-0.273762055	0.45657155
ENSG00000212607	SNORA3B	10.56309142	-0.273841158	0.845615609
ENSG00000108848	LUC7L3	2679.729821	-0.273944178	0.446698034
ENSG00000162039	MEIOB	2.935058939	-0.274270935	0.924205963
ENSG00000155868	MED7	215.7379203	-0.274337195	0.494377359
ENSG00000116906	GNPAT	433.7390488	-0.274348265	0.324229911
ENSG00000275964	AL355001.2	10.47581066	-0.274545995	0.855093696
ENSG00000285976	AL135905.2	200.6870689	-0.274592026	0.500586919
ENSG00000144134	RABL2A	33.99626036	-0.274789183	0.809928044
ENSG00000148110	MFSD14B	2232.009596	-0.274857947	0.25422455
ENSG00000020922	MRE11	1091.379316	-0.274882132	0.40530489
ENSG00000005156	LIG3	2565.494666	-0.274957729	0.332733035
ENSG00000183864	TOB2	2696.355274	-0.275034581	0.367272257
ENSG00000196712	NF1	2251.38286	-0.275131968	0.449774762
ENSG00000176532	PRR15	98.73214443	-0.275410713	0.591141369
ENSG00000010626	LRRC23	56.30980102	-0.27573968	0.707604947
ENSG00000101266	CSNK2A1	6925.824164	-0.275757522	0.203347676
ENSG00000171119	NRTN	14.05932245	-0.275846226	0.812620089
ENSG00000136810	TXN	2148.207878	-0.275874844	0.271663529
ENSG00000177425	PAWR	4757.930448	-0.275985768	0.361720672

ENSG00000138756	BMP2K	94.78401221	-0.276037538	0.53664176
ENSG00000148153	INIP	663.4561613	-0.276038045	0.276312429
ENSG00000198964	SGMS1	354.2605804	-0.276170675	0.414007035
ENSG00000165525	NEMF	1433.66154	-0.276259504	0.202513363
ENSG00000041988	THAP3	595.3730398	-0.276269195	0.325055444
ENSG00000123080	CDKN2C	24.59421494	-0.276320478	0.753643329
ENSG00000185522	LMNTD2	61.11240659	-0.276570132	0.646501233
ENSG00000221926	TRIM16	156.2633117	-0.276649322	0.471328674
ENSG00000131378	RFTN1	11.88955594	-0.276749235	0.826096687
ENSG00000205339	IPO7	9706.066612	-0.276944957	0.280312826
ENSG00000151687	ANKAR	13.17000474	-0.276977181	0.816712267
ENSG00000108010	GLRX3	2938.460517	-0.27702982	0.202942421
ENSG00000128833	MYO5C	98.80933845	-0.277278399	0.644167578
ENSG00000101966	XIAP	2415.895328	-0.277376838	0.425765145
ENSG00000213859	KCTD11	140.7898132	-0.277433845	0.596599011
ENSG00000204310	AGPAT1	613.7237175	-0.277480988	0.265731823
ENSG00000126247	CAPNS1	3341.468674	-0.278111273	0.196446563
ENSG00000158636	EMSY	1256.727599	-0.278291717	0.360843051
ENSG00000117500	TMED5	4703.609286	-0.278610384	0.294097928
ENSG00000171262	FAM98B	1031.939945	-0.278762127	0.29415435
ENSG00000128944	KNSTRN	958.9613497	-0.278777887	0.245925063
ENSG00000096384	HSP90AB1	65849.95519	-0.279045596	0.226519218
ENSG00000155959	VBP1	1002.561297	-0.279196571	0.248138828
ENSG00000255717	SNHG1	2561.146608	-0.279404475	0.525486027

ENSG00000242781	LINC02050	14.86462213	-0.279964476	0.81287676
ENSG00000272871	AL159169.2	10.82565822	-0.280036394	0.836518099
ENSG00000029993	HMGB3	6581.205721	-0.280203587	0.408662484
ENSG00000163898	LIPH	745.9243925	-0.280285744	0.418215551
ENSG00000187239	FNBP1	5387.312793	-0.280294144	0.437120352
ENSG00000176681	LRRC37A	28.692261	-0.280481265	0.762159119
ENSG00000132549	VPS13B	839.3117207	-0.28083906	0.245774203
ENSG00000160789	LMNA	21253.42404	-0.280926846	0.204819524
ENSG00000198960	ARMCX6	245.6871657	-0.281097049	0.547581443
ENSG00000286449	AC016590.4	17.32618265	-0.281131538	0.801296773
ENSG00000101457	DNTTIP1	420.9983035	-0.281322211	0.321815254
ENSG00000239521	CASTOR3	214.9895076	-0.281364844	0.446426899
ENSG00000174197	MGA	2114.542681	-0.281519464	0.326969557
ENSG00000278974	AC093909.6	24.22293053	-0.281662352	0.763945529
ENSG00000136709	WDR33	3932.966018	-0.281673185	0.177662576
ENSG00000141738	GRB7	3515.287159	-0.281683922	0.428998462
ENSG00000102078	SLC25A14	123.4386441	-0.28169945	0.537212478
ENSG00000177613	CSTF2T	332.4074367	-0.2818215	0.311654467
ENSG00000165732	DDX21	11499.13678	-0.281839876	0.248836483
ENSG00000024048	UBR2	2469.912161	-0.281897549	0.284927699
ENSG00000023892	DEF6	1504.670113	-0.28219752	0.521334663
ENSG00000075673	ATP12A	198.9286055	-0.282257601	0.85962231
ENSG00000171867	PRNP	1645.416364	-0.28248919	0.440827971
ENSG00000164111	ANXA5	26458.16201	-0.282524383	0.169948716

ENSG00000137198	GMPR	68.06116283	-0.282542917	0.687150007
ENSG00000113083	LOX	6.139624288	-0.282575998	0.875440009
ENSG00000273335	AP005432.2	6.738668	-0.2826305	0.9583476
ENSG00000266777	SH3GL1P1	6.844322566	-0.282655728	0.888173372
ENSG00000133818	RRAS2	803.3825865	-0.282732363	0.211807712
ENSG00000077984	CST7	23.15093269	-0.282814801	0.762758312
ENSG00000138688	KIAA1109	1272.408912	-0.282927419	0.46078324
ENSG00000249617	AC106872.6	6.829332456	-0.282987806	0.872363907
ENSG00000116266	STXBP3	1701.786568	-0.283084545	0.331924272
ENSG00000225489	AL354707.1	9.221730026	-0.283089694	0.884184359
ENSG00000253341	AC115837.1	13.6350864	-0.283334139	0.81403401
ENSG00000225361	PPP1R26-AS1	13.11255476	-0.283617657	0.826071787
ENSG00000159348	CYB5R1	4743.299968	-0.283744829	0.296954297
ENSG00000164053	ATRIP	428.1184589	-0.283758221	0.308326922
ENSG00000117222	RBBP5	730.8358132	-0.284256134	0.351046558
ENSG00000197265	GTF2E2	1336.473969	-0.284317178	0.297153092
ENSG00000196455	PIK3R4	912.2727809	-0.284852751	0.258993131
ENSG00000166126	AMN	43.88445901	-0.284981816	0.686293537
ENSG00000204611	ZNF616	389.3928947	-0.285042389	0.348171846
ENSG00000083544	TDRD3	199.3927112	-0.285396548	0.414332944
ENSG00000157502	PWWP3B	613.762256	-0.285599854	0.605114419
ENSG00000124571	XPO5	2453.268476	-0.285629899	0.185676147
ENSG00000170017	ALCAM	32.14917934	-0.285659624	0.750199282
ENSG00000075151	EIF4G3	882.6992679	-0.285738457	0.349837477

ENSG00000256884	AC084880.4	16.97477571	-0.286012416	0.807883105
ENSG00000184205	TSPYL2	2197.050005	-0.286018611	0.315443759
ENSG00000142686	C1orf216	123.5519599	-0.286057973	0.562736704
ENSG00000164647	STEAP1	8.713423218	-0.286487808	0.865095689
ENSG00000173681	BCLAF3	164.9914645	-0.286658108	0.502455126
ENSG00000178980	SELENOW	3237.803861	-0.28668321	0.215091866
ENSG00000082701	GSK3B	12055.87667	-0.286852273	0.286640045
ENSG00000174574	AKIRIN1	2841.055461	-0.286909473	0.306462064
ENSG00000079689	SCGN	8.588062351	-0.286936759	0.853506815
ENSG00000165672	PRDX3	2987.068556	-0.28705976	0.183843227
ENSG00000162959	MEMO1	60.99393302	-0.287583644	0.702265402
ENSG00000186660	ZFP91	1954.298498	-0.287599737	0.241913343
ENSG00000122783	CYREN	453.7453938	-0.287858577	0.36343637
ENSG00000065057	NTHL1	243.6967012	-0.287898037	0.419131917
ENSG00000137076	TLN1	5698.462777	-0.288024459	0.281803994
ENSG00000182185	RAD51B	196.4291806	-0.288047928	0.427118971
ENSG00000233110	AC093797.1	15.48275953	-0.288321808	0.810802966
ENSG00000177465	ACOT4	106.8133576	-0.288361514	0.512705114
ENSG00000172766	NAA16	281.9871781	-0.28839324	0.436202511
ENSG00000161996	WDR90	138.9071061	-0.288673296	0.525994666
ENSG00000214198	TTC41P	5.890309911	-0.288806073	0.887044392
ENSG00000116005	PCYOX1	1833.251001	-0.288854397	0.250172737
ENSG00000161904	LEMD2	1325.461293	-0.288897489	0.213568633
ENSG00000115827	DCAF17	517.6650578	-0.288956959	0.246268954

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ENSG00000258405	ZNF578	388.0538486	-0.289002172	0.39456839
ENSG00000013375	PGM3	4904.371646	-0.289038636	0.263785933
ENSG00000164221	CCDC112	18.43670553	-0.289054247	0.756844264
ENSG00000132313	MRPL35	790.2440748	-0.289578049	0.253762814
ENSG00000137970	RPL7P9	350.7664657	-0.289816309	0.294663822
ENSG00000125651	GTF2F1	2343.45463	-0.289895948	0.295146544
ENSG00000167995	BEST1	21.06394197	-0.290110431	0.761782779
ENSG00000286928	AC012325.1	3.677077844	-0.290172463	0.920473758
ENSG00000213214	ARHGEF35	474.8452025	-0.290353821	0.290933137
ENSG00000138750	NUP54	1337.629317	-0.290681288	0.181428859
ENSG00000236714	LINC01844	16.15338	-0.290684	0.9426476
ENSG00000047315	POLR2B	4650.685856	-0.290778948	0.20199313
ENSG00000078098	FAP	96.66848978	-0.290875713	0.573060534
ENSG00000100316	RPL3	56616.95667	-0.290927786	0.194765145
ENSG00000224032	EPB41L4A-AS1	215.2182573	-0.291228223	0.426198571
ENSG00000204209	DAXX	3554.117905	-0.291236858	0.185394253
ENSG00000134996	OSTF1	3301.478037	-0.291551983	0.264469547
ENSG00000110911	SLC11A2	3492.134491	-0.291577636	0.172783024
ENSG00000198771	RCSD1	44.24875341	-0.292220354	0.746749857
ENSG00000127511	SIN3B	18879.32648	-0.292274915	0.337359706
ENSG00000131725	WDR44	292.4113695	-0.292497401	0.415982476
ENSG00000083937	CHMP2B	1689.696965	-0.292714776	0.183843288
ENSG00000259345	AC013652.1	10.3421573	-0.292847733	0.827503317

ENSG00000146802	TMEM168	292.102405	-0.293057767	0.414645245
ENSG00000165757	JCAD	2560.529492	-0.293236639	0.559810353
ENSG00000099385	BCL7C	122.2244983	-0.293236678	0.50478687
ENSG00000131773	KHDRBS3	127.6667031	-0.293381201	0.603336194
ENSG00000063978	RNF4	3229.48093	-0.293456248	0.178824646
ENSG00000125691	RPL23	19379.40774	-0.293817256	0.144850752
ENSG00000138030	KHK	4726.833069	-0.293885641	0.378863966
ENSG00000138834	MAPK8IP3	793.2933105	-0.294011156	0.305662424
ENSG00000114054	PCCB	1609.637842	-0.294511056	0.223653819
ENSG00000166326	TRIM44	783.8250625	-0.294885521	0.235650133
ENSG00000143742	SRP9	3194.867087	-0.294911399	0.203772773
ENSG00000169299	PGM2	4271.225339	-0.294965891	0.268517661
ENSG00000138668	HNRNPD	9620.297496	-0.294974896	0.142484558
ENSG00000278730	AC005332.6	35.5160118	-0.295091166	0.688000093
ENSG00000133059	DSTYK	256.7621963	-0.295349465	0.373605129
ENSG00000138398	PPIG	3161.536213	-0.295493452	0.201193627
ENSG00000259306	AC020891.2	11.10601126	-0.29555068	0.833723939
ENSG00000102081	FMR1	2358.661236	-0.295686552	0.160656094
ENSG00000066084	DIP2B	4974.868733	-0.295868694	0.334417085
ENSG00000134317	GRHL1	7156.537045	-0.296231375	0.222509849
ENSG00000069424	KCNAB2	19.17464983	-0.296465929	0.788874097
ENSG00000213341	CHUK	1684.543202	-0.297022499	0.203375698
ENSG00000147140	NONO	10129.2924	-0.297196131	0.141955978
ENSG00000143674	MAP3K21	14.07896726	-0.297264769	0.792927496

ENSG00000135119	RNFT2	238.5679561	-0.297283085	0.347967568
ENSG00000134371	CDC73	1300.992538	-0.297606764	0.167307635
ENSG00000228463	AP006222.1	13.36071758	-0.297649961	0.838945656
ENSG00000104774	MAN2B1	2276.898533	-0.297671915	0.230037932
ENSG00000118579	MED28	906.4927635	-0.297835531	0.187406678
ENSG00000167461	RAB8A	899.9507975	-0.297912691	0.249591939
ENSG00000137947	GTF2B	1404.296812	-0.297997936	0.173791804
ENSG00000115977	AAK1	12466.43482	-0.298074632	0.297523116
ENSG00000042445	RETSAT	1522.88002	-0.298294469	0.244967857
ENSG00000230067	HSPD1P6	118.8342876	-0.298353587	0.504024792
ENSG00000204128	C2orf72	7565.015893	-0.298989691	0.184498465
ENSG00000204271	SPIN3	98.83644869	-0.299013293	0.575619923
ENSG00000109113	RAB34	1045.107554	-0.299035427	0.202086541
ENSG00000176531	PHLDB3	3081.154394	-0.299035567	0.374574863
ENSG00000133519	ZDHHC8P1	89.12280731	-0.299199833	0.543785037
ENSG00000169347	GP2	12.60749523	-0.299405999	0.82771923
ENSG00000072121	ZFYVE26	2818.744845	-0.299438281	0.272144877
ENSG00000261067	AC109460.3	9.449200578	-0.299649798	0.827961683
ENSG00000159409	CELF3	12.03806365	-0.299669592	0.813596599
ENSG00000177888	ZBTB41	303.46252	-0.299685362	0.554145257
ENSG00000162923	WDR26	7437.733888	-0.299727434	0.244967857
ENSG00000117000	RLF	1722.371708	-0.299764683	0.354059947
ENSG00000156261	CCT8	9229.82063	-0.299771739	0.165543419
ENSG00000112640	PPP2R5D	768.5625656	-0.300043142	0.222156769

ENSG00000062716	VMP1	5046.458964	-0.300087269	0.167216158
ENSG00000141252	VPS53	920.1224233	-0.300088312	0.246947039
ENSG00000137411	VARS2	5.770528788	-0.300112186	0.883323491
ENSG00000223783	LINC01983	8.514302748	-0.300425863	0.836370788
ENSG00000100416	TRMU	1125.330496	-0.300476958	0.377875985
ENSG00000179029	TMEM107	250.4996389	-0.300599753	0.556239916
ENSG00000065833	ME1	269.3240274	-0.300840143	0.518098764
ENSG00000198513	ATL1	35.74538086	-0.300897828	0.699449612
ENSG00000186352	ANKRD37	78.18752529	-0.301204657	0.637474252
ENSG00000232573	RPL3P4	201.2066857	-0.301487022	0.500896578
ENSG00000164674	SYTL3	89.20660327	-0.301646017	0.598216307
ENSG00000104472	CHRAC1	482.266272	-0.302075174	0.322906059
ENSG00000135040	NAA35	1327.182231	-0.302196264	0.256224268
ENSG00000287620	AC092053.4	5.54255168	-0.30268961	0.881983711
ENSG00000213799	ZNF845	5103.399134	-0.303562508	0.368144758
ENSG00000185986	SDHAP3	76.76677868	-0.303578281	0.605588375
ENSG00000146416	AIG1	317.7316957	-0.303614605	0.560921568
ENSG00000054983	GALC	137.3826796	-0.303669267	0.530249574
ENSG00000156735	BAG4	365.9948276	-0.303885419	0.445970837
ENSG00000014257	ACPP	56.89920897	-0.304102656	0.662335678
ENSG00000064042	LIMCH1	399.849331	-0.304377772	0.498773986
ENSG00000142973	CYP4B1	8.54182042	-0.304415618	0.83101758
ENSG00000196233	LCOR	2285.037849	-0.304419662	0.183515148
ENSG00000007047	MARK4	763.5498983	-0.304462078	0.32607781

ENSG00000270347	AC011453.2	11.86925862	-0.304478894	0.809189845
ENSG00000122566	HNRNPA2B1	32908.09172	-0.304499793	0.142553265
ENSG00000178035	IMPDH2	10273.4094	-0.304926851	0.1384959
ENSG00000168970	JMJD7-PLA2G4B	30.13216945	-0.30510335	0.77118404
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ENSG00000120647	CCDC77	519.0253465	-0.305210652	0.328962754
ENSG00000256673	AC141557.1	17.45126034	-0.305296207	0.796853946
ENSG00000243224	AC006252.1	9.566671957	-0.30568858	0.841348791
ENSG00000157045	NTAN1	438.8132663	-0.305949277	0.362046982
ENSG00000008282	SYPL1	1895.91046	-0.306286449	0.199586891
ENSG00000136450	SRSF1	1557.721795	-0.306376064	0.243737786
ENSG00000117360	PRPF3	2007.760656	-0.306505985	0.333654759
ENSG00000233369	GTF2IP4	479.5050974	-0.306573517	0.285705784
ENSG00000135829	DHX9	7237.236217	-0.306689057	0.318832616
ENSG00000249790	AC092490.1	788.3688921	-0.30671632	0.831702483
ENSG00000119392	GLE1	1223.719037	-0.30704713	0.2576435
ENSG00000119899	SLC17A5	1444.382675	-0.307098674	0.421301279
ENSG00000102710	SUPT20H	1286.030199	-0.307357025	0.281060895
ENSG00000185453	ZSWIM9	223.4280537	-0.30749579	0.434435937
ENSG00000179403	VWA1	6088.584862	-0.307735262	0.21063719
ENSG00000112200	ZNF451	679.247895	-0.307762394	0.391775165
ENSG00000143545	RAB13	128.9430295	-0.30777474	0.460079853
ENSG00000133103	COG6	1260.393158	-0.307851907	0.362217271
ENSG00000226956	AP000432.1	8.418417255	-0.307854011	0.844574895

ENSG00000180764	PIPSL	22.79269944	-0.307939072	0.748080621
ENSG00000166199	ALKBH3	48.29518819	-0.308246835	0.673841139
ENSG00000247572	CKMT2-AS1	239.4457257	-0.308352879	0.384078663
ENSG00000225159	NPM1P39	23.92282962	-0.308575907	0.717238602
ENSG00000165959	CLMN	219.283208	-0.30873362	0.414421829
ENSG00000139112	GABARAPL1	15095.24564	-0.308837714	0.371503726
ENSG00000129484	PARP2	2166.546003	-0.309102034	0.163828504
ENSG00000152192	POU4F1	10.08305904	-0.309163286	0.832822635
ENSG00000154265	ABCA5	266.8282544	-0.309490661	0.371401242
ENSG00000112294	ALDH5A1	516.8314109	-0.310229969	0.215979296
ENSG00000163590	PPM1L	146.3007753	-0.310397553	0.590583805
ENSG00000224307	AL161785.1	4.8358957	-0.310451117	0.906201163
ENSG00000251493	FOXD1	61.53125676	-0.310462328	0.613203004
ENSG00000138640	FAM13A	1436.231993	-0.310513627	0.156937696
ENSG00000136813	ECPAS	4705.316751	-0.310639948	0.282752308
ENSG00000113300	CNOT6	1930.360574	-0.310665321	0.229896122
ENSG00000113396	SLC27A6	2029.296892	-0.310741178	0.12222406
ENSG00000115816	CEBPZ	1447.17844	-0.310835832	0.247123335
ENSG00000266921	AC006213.1	6.340977888	-0.310921734	0.86271478
ENSG00000238062	SPATA3-AS1	6.265150775	-0.31110329	0.846432132
ENSG00000147854	UHRF2	659.1139041	-0.31124709	0.203823219
ENSG00000277566	AC089999.2	24.46666436	-0.311448473	0.722681038
ENSG00000133392	MYH11	8.208730808	-0.312146332	0.897947855
ENSG00000167972	ABCA3	37.29751676	-0.31219236	0.63740524

ENSG00000213699	SLC35F6	4220.866004	-0.312205731	0.35128325
ENSG00000101421	CHMP4B	11940.14746	-0.312331158	0.209910746
ENSG00000143952	VPS54	653.8933148	-0.312382737	0.327444213
ENSG00000144395	CCDC150	106.1580039	-0.312524886	0.470730599
ENSG00000159140	SON	7994.932294	-0.312640682	0.296954297
ENSG00000067167	TRAM1	8169.484984	-0.312668594	0.156720002
ENSG00000089327	FXYD5	3392.37157	-0.312950468	0.186987347
ENSG00000100650	SRSF5	7977.678873	-0.31306093	0.229406862
ENSG00000003056	M6PR	2747.128337	-0.31314622	0.156393054
ENSG00000185033	SEMA4B	1082.159144	-0.313164616	0.244380381
ENSG00000110492	MDK	2216.207688	-0.313330792	0.363987789
ENSG00000170871	KIAA0232	1162.376195	-0.313441296	0.485696786
ENSG00000231731	AC010976.1	31.18236392	-0.313581313	0.724916871
ENSG00000074695	LMAN1	15724.17222	-0.31385344	0.393908424
ENSG00000171792	RHNO1	479.429581	-0.313893063	0.378893962
ENSG00000105438	KDELR1	6957.937478	-0.313984144	0.167911022
ENSG00000130822	PNCK	94.31433594	-0.314025365	0.640787226
ENSG00000181163	NPM1	39872.28675	-0.314067571	0.194191145
ENSG00000139697	SBNO1	3318.920033	-0.314133169	0.27820793
ENSG00000091592	NLRP1	8.341401298	-0.314394115	0.841111328
ENSG00000089289	IGBP1	1427.286244	-0.314553555	0.134478763
ENSG00000233225	AC004987.2	14.26629613	-0.31457554	0.780935306
ENSG00000228302	AL512770.1	5.523462632	-0.314581167	0.898383118
ENSG00000114520	SNX4	1079.234496	-0.31491937	0.176688279

ENSG00000197536	C5orf56	7.876005441	-0.315108407	0.85156349
ENSG00000248510	LINC02267	3.810825542	-0.3152603	0.904591815
ENSG00000112977	DAP	8158.767693	-0.315323872	0.169015168
ENSG00000066422	ZBTB11	1363.323375	-0.31541573	0.278619467
ENSG00000071655	MBD3	7167.53455	-0.315422676	0.292489917
ENSG00000182492	BGN	2420.369401	-0.315483199	0.312198549
ENSG00000112062	MAPK14	1870.224063	-0.31557261	0.203467184
ENSG00000137574	TGS1	782.8783098	-0.31559769	0.28135458
ENSG00000099849	RASSF7	3409.218231	-0.315715338	0.131565501
ENSG00000126243	LRFN3	74.89105229	-0.315715347	0.536225635
ENSG00000103061	SLC7A6OS	218.2078268	-0.315813658	0.30410173
ENSG00000133789	SWAP70	14218.14252	-0.315882874	0.171361693
ENSG00000161647	MPP3	19.53010775	-0.315959117	0.757697698
ENSG00000072133	RPS6KA6	13.28706108	-0.316250941	0.790062036
ENSG00000006327	TNFRSF12A	1154.661881	-0.31642262	0.169771932
ENSG00000133678	TMEM254	487.5231399	-0.316541569	0.378912839
ENSG00000147166	ITGB1BP2	6.648982018	-0.316668962	0.883323491
ENSG00000120519	SLC10A7	608.2111809	-0.317188911	0.29181012
ENSG00000213073	AL353625.1	28.99401823	-0.317190863	0.724256606
ENSG00000152620	NADK2	707.682149	-0.317212523	0.528347974
ENSG00000160439	RDH13	1544.162646	-0.317243965	0.218466957
ENSG00000251287	ALG1L2	9.056126921	-0.317305909	0.853560947
ENSG00000116741	RGS2	310.0111162	-0.317306401	0.42443019
ENSG00000119335	SET	14104.97112	-0.31735988	0.143554537

ENSG00000158079	PTPDC1	8.013601399	-0.317603129	0.851214749
ENSG00000114999	TTL	411.5101469	-0.317683076	0.238020512
ENSG00000083123	BCKDHB	120.4705716	-0.318118623	0.463897521
ENSG00000154814	OXNAD1	502.7644625	-0.318120505	0.236073761
ENSG00000118564	FBXL5	2069.831934	-0.31822039	0.152362842
ENSG00000083896	YTHDC1	3530.331821	-0.318240701	0.225804846
ENSG00000125744	RTN2	1202.648143	-0.318515201	0.18703277
ENSG00000175164	ABO	10.69381107	-0.318517708	0.813802742
ENSG00000122550	KLHL7	873.7345616	-0.318676331	0.253464555
ENSG00000197385	ZNF860	130.0980643	-0.318889168	0.488513637
ENSG00000197323	TRIM33	6016.490348	-0.319355498	0.254595251
ENSG00000139372	TDG	2496.565543	-0.319395336	0.26117115
ENSG00000167525	PROCA1	11.45019127	-0.319402531	0.812279787
ENSG00000090686	USP48	3465.48774	-0.319615703	0.118334261
ENSG00000204556	AL450124.1	8.517699462	-0.31969111	0.820147587
ENSG00000149582	TMEM25	380.7634725	-0.319823927	0.257776665
ENSG00000135597	REPS1	2404.136614	-0.320071326	0.237813207
ENSG00000124422	USP22	4132.772338	-0.320337857	0.174896708
ENSG00000140463	BBS4	181.8688541	-0.32039489	0.453963218
ENSG00000099194	SCD	69130.1117	-0.320424148	0.346719524
ENSG00000135617	PRADC1	184.389953	-0.320454071	0.407100416
ENSG00000198393	ZNF26	129.2102972	-0.320477143	0.51167464
ENSG00000156232	WHAMM	541.2405124	-0.320508634	0.256429985
ENSG00000247796	AC008966.1	11.13993954	-0.320779356	0.805404085

ENSG00000166002	SMCO4	33.47287242	-0.320809068	0.653791034
ENSG00000139641	ESYT1	1945.360653	-0.320992907	0.211336635
ENSG00000089022	MAPKAPK5	1161.86166	-0.321101019	0.157558736
ENSG00000130826	DKC1	3526.947107	-0.32124739	0.361274686
ENSG00000156172	C8orf37	34.99716285	-0.321262935	0.650334424
ENSG00000165410	CFL2	744.5288636	-0.321293973	0.186843027
ENSG00000196611	MMP1	14.40371193	-0.321294021	0.853552848
ENSG00000120265	PCMT1	1867.665922	-0.321330398	0.16323336
ENSG00000076258	FMO4	22.71286657	-0.321340629	0.80143477
ENSG00000286555	AP003065.2	18.31202113	-0.321416332	0.827364325
ENSG00000175727	MLXIP	181.902823	-0.321419885	0.473018216
ENSG00000131584	ACAP3	623.9476353	-0.321504196	0.288895793
ENSG00000285215	AC241377.4	7.837708266	-0.321855887	0.8529122
ENSG00000167491	GATAD2A	5603.721346	-0.321892568	0.229378381
ENSG00000198551	ZNF627	305.845875	-0.321959848	0.364353924
ENSG00000121691	CAT	1729.817554	-0.321977991	0.174003586
ENSG00000159720	ATP6V0D1	7011.184402	-0.322224561	0.117827512
ENSG00000125676	THOC2	2811.89845	-0.322406337	0.175996787
ENSG00000084693	AGBL5	557.4868184	-0.322565723	0.190563983
ENSG00000102879	CORO1A	49.86040999	-0.322608468	0.688195517
ENSG00000175946	KLHL38	6.630078876	-0.322720778	0.870980869
ENSG00000129071	MBD4	1606.255007	-0.322772889	0.225968279
ENSG00000234494	SP2-AS1	7.53043845	-0.322887813	0.839425306
ENSG00000175105	ZNF654	395.6890535	-0.32307662	0.289153085

ENSG00000162972	MAIP1	767.5719948	-0.323105031	0.282658068
ENSG00000184012	TMPRSS2	194.1036644	-0.323400981	0.507799762
ENSG00000144161	ZC3H8	138.5201612	-0.323507165	0.454786818
ENSG00000196715	VKORC1L1	1982.964869	-0.323982129	0.18850273
ENSG00000111731	C2CD5	463.8564807	-0.324051419	0.204097164
ENSG00000081307	UBA5	2536.703284	-0.324222219	0.133577917
ENSG00000072803	FBXW11	1105.191101	-0.324299065	0.253470053
ENSG00000095383	TBC1D2	1632.530893	-0.324313894	0.232473257
ENSG00000153914	SREK1	1525.699	-0.32441785	0.118115875
ENSG00000269846	AL136172.1	6.463412646	-0.324426352	0.862919798
ENSG00000074935	TUBE1	249.8914421	-0.324436795	0.513769486
ENSG00000100350	FOXRED2	780.8765922	-0.324595054	0.318371582
ENSG00000160014	CALM3	9186.45521	-0.324629904	0.198436245
ENSG00000170142	UBE2E1	1865.104207	-0.32473825	0.216683423
ENSG00000108064	TFAM	1028.362198	-0.324837578	0.260804329
ENSG00000084234	APLP2	37104.89631	-0.324934123	0.099435291
ENSG00000174953	DHX36	1653.225389	-0.325122677	0.122448283
ENSG00000099901	RANBP1	3007.786959	-0.325129661	0.158286836
ENSG00000226149	AL356124.1	29.55367874	-0.325171216	0.696642031
ENSG00000124749	COL21A1	2152.454102	-0.325256482	0.231636647
ENSG00000272886	DCP1A	1381.912326	-0.32528485	0.209776372
ENSG00000120509	PDZD11	527.5839092	-0.325430989	0.305415861
ENSG00000277481	PKD1L3	9.446054576	-0.325629055	0.881206502
ENSG00000225518	LINC01703	4.844108074	-0.325846691	0.888489295

ENSG00000226330	AL606489.1	10.94119495	-0.326151488	0.828779284
ENSG00000172476	RAB40A	11.54107369	-0.326181499	0.789423641
ENSG00000219986	BTF3P7	6.747730966	-0.326193182	0.881206502
ENSG00000134265	NAPG	986.0754057	-0.326218141	0.239435353
ENSG00000157259	GATAD1	1104.159181	-0.326315258	0.183511291
ENSG00000250462	LRRC37BP1	9.93403469	-0.32650757	0.842749388
ENSG00000176092	CRYBG2	9288.006236	-0.326785935	0.394165708
ENSG00000055609	KMT2C	4687.58424	-0.326805211	0.36460503
ENSG00000018189	RUFY3	521.2802654	-0.326999848	0.393074764
ENSG00000120690	ELF1	1974.132503	-0.327251498	0.215685113
ENSG00000182022	CHST15	30.68677225	-0.327312846	0.679773884
ENSG00000164951	PDP1	268.3435953	-0.327318014	0.463370427
ENSG00000163104	SMARCAD1	759.4486676	-0.327428181	0.166300405
ENSG00000115073	ACTR1B	997.4701098	-0.327475138	0.203544916
ENSG00000108094	CUL2	4446.289102	-0.327481035	0.108932634
ENSG00000156030	ELMSAN1	1027.830026	-0.327679946	0.195383914
ENSG00000104055	TGM5	46.84417802	-0.328197269	0.698309906
ENSG00000111328	CDK2AP1	639.4273224	-0.328249837	0.528105599
ENSG00000161057	PSMC2	6200.960159	-0.328483574	0.225998072
ENSG00000127081	ZNF484	44.07368533	-0.328528881	0.581812285
ENSG00000087087	SRRT	4367.090553	-0.328545976	0.362283589
ENSG00000249353	NPM1P27	1074.996695	-0.328562176	0.19199815
ENSG00000243547	HNRNPKP4	8.487614662	-0.328600333	0.826124867
ENSG00000122481	RWDD3	11.59174624	-0.329071271	0.805008067

ENSG00000269526	ERVV-1	27345.89012	-0.329100626	0.155379054
ENSG00000168137	SETD5	4516.272609	-0.329215474	0.264675222
ENSG00000116133	DHCR24	1970.030076	-0.329218666	0.474341453
ENSG00000166167	BTRC	614.6582736	-0.329303168	0.379418102
ENSG00000159885	ZNF222	134.7116278	-0.329407906	0.60012729
ENSG00000125166	GOT2	4399.941412	-0.329494084	0.19651186
ENSG00000285793	AC125232.2	32.42159716	-0.329612092	0.704093066
ENSG00000188092	GPR89B	135.2591094	-0.329647058	0.426806142
ENSG00000139971	ARMH4	5.425591219	-0.330309214	0.90129525
ENSG00000158411	MITD1	575.7858776	-0.33033997	0.265915139
ENSG00000077157	PPP1R12B	607.4645236	-0.330494052	0.343871711
ENSG00000255308	CSRP3-AS1	7.193947349	-0.330539698	0.841927391
ENSG00000118655	DCLRE1B	237.9280173	-0.330716851	0.300344683
ENSG00000123200	ZC3H13	1818.456993	-0.330964629	0.223796921
ENSG00000179141	MTUS2-AS1	7.154871137	-0.330980478	0.887110176
ENSG00000181652	ATG9B	2181.500143	-0.331615673	0.445324795
ENSG00000211454	AKR7L	9.02281697	-0.331706425	0.836068153
ENSG00000128311	TST	211.9569394	-0.331767682	0.439487752
ENSG00000238832	AC004839.1	4.706883682	-0.331998924	0.884697079
ENSG00000205765	C5orf51	1144.168877	-0.332062647	0.205193969
ENSG00000133687	TMTC1	7.123869449	-0.332151345	0.828483718
ENSG00000100902	PSMA6	396.8733083	-0.33235112	0.302693527
ENSG00000163605	PPP4R2	3098.836574	-0.332371299	0.176688279
ENSG00000262246	CORO7	115.0896863	-0.332672343	0.465714694

ENSG00000151490	PTPRO	6.579975939	-0.332829755	0.8611284
ENSG00000179913	B3GNT3	228.9705647	-0.332899534	0.367053146
ENSG00000148943	LIN7C	599.5071245	-0.332928294	0.349316192
ENSG00000149043	SYT8	23.04576511	-0.333110571	0.760360771
ENSG00000173598	NUDT4	2238.671667	-0.33344355	0.284752646
ENSG00000109790	KLHL5	378.7815619	-0.333459692	0.522873106
ENSG00000128789	PSMG2	1363.214381	-0.333601607	0.143337568
ENSG00000124067	SLC12A4	6111.221942	-0.333625647	0.210295095
ENSG00000102886	GDPD3	214.9615511	-0.333676054	0.399702572
ENSG00000105699	LSR	3349.863323	-0.333808645	0.147531929
ENSG00000235750	KIAA0040	6521.389013	-0.333865347	0.154142494
ENSG00000253200	AC037459.2	25.8642613	-0.333956439	0.704914519
ENSG00000111142	METAP2	3198.084088	-0.334088925	0.150575762
ENSG00000177096	PHETA2	201.3241726	-0.334124541	0.3257789
ENSG00000050748	MAPK9	2548.788835	-0.334296011	0.153748615
ENSG00000103034	NDRG4	22.95416927	-0.334657152	0.713500237
ENSG00000120832	MTERF2	52.91077737	-0.334749945	0.605469851
ENSG00000173930	SLCO4C1	13.56866273	-0.334848393	0.803265416
ENSG00000196597	ZNF782	32.3105172	-0.334951291	0.68549902
ENSG00000070367	EXOC5	1257.975985	-0.335126011	0.165675605
ENSG00000115875	SRSF7	3358.358319	-0.335327437	0.152960785
ENSG00000146842	TMEM209	835.7654308	-0.335594173	0.301102427
ENSG00000167216	KATNAL2	3.427944792	-0.335702747	0.921889748
ENSG00000196549	MME	8661.505061	-0.336290907	0.392885875

ENSG00000010295	IFFO1	32.70392976	-0.336538076	0.729387784
ENSG00000175115	PACS1	3368.095084	-0.336790057	0.420915035
ENSG00000198492	YTHDF2	8866.628594	-0.336982328	0.251559643
ENSG00000171189	GRIK1	6.202947271	-0.337037535	0.837786586
ENSG00000104228	TRIM35	389.7607589	-0.337059277	0.333576782
ENSG00000077380	DYNC1I2	3514.386237	-0.337093558	0.081406588
ENSG00000164169	PRMT9	543.4863024	-0.337808206	0.27179613
ENSG00000203783	PRR9	62060.65896	-0.337825914	0.430874914
ENSG00000179361	ARID3B	5714.691904	-0.338050221	0.165782727
ENSG00000072062	PRKACA	1157.641012	-0.33819008	0.248963892
ENSG00000106524	ANKMY2	557.7238048	-0.338477993	0.185336904
ENSG00000263126	AC040162.3	7.306145521	-0.338599563	0.85156349
ENSG00000197045	GMFB	836.6013842	-0.338753347	0.263531515
ENSG00000111907	TPD52L1	493.4280328	-0.338996403	0.248836483
ENSG00000172689	MS4A10	19.44644751	-0.339242207	0.846432132
ENSG00000006451	RALA	1584.292812	-0.339548782	0.177293438
ENSG00000204084	INPP5B	1560.983091	-0.339847342	0.341111597
ENSG00000125835	SNRPB	3386.672354	-0.339861219	0.123881941
ENSG00000134109	EDEM1	10806.24414	-0.339919	0.222646517
ENSG00000112304	ACOT13	483.3550826	-0.340115486	0.306590518
ENSG00000110107	PRPF19	3965.890985	-0.340123719	0.181629076
ENSG00000108506	INTS2	718.4951568	-0.340157303	0.410488173
ENSG00000123352	SPATS2	396.8072839	-0.340250725	0.241642257
ENSG00000280088	AC126474.2	24.52809933	-0.340376695	0.727752357

ENSG00000214026	MRPL23	515.967006	-0.340737177	0.300671783
ENSG00000196821	ILRUN	5303.660918	-0.340759556	0.161450779
ENSG00000211455	STK38L	518.4784843	-0.340778306	0.306849012
ENSG00000101298	SNPH	107.1636256	-0.341013172	0.466858934
ENSG00000107960	STN1	729.6432716	-0.341151997	0.5424964
ENSG00000095319	NUP188	2979.894914	-0.341196741	0.212593905
ENSG00000114554	PLXNA1	1986.7877	-0.341323059	0.335441441
ENSG00000115255	REEP6	277.7791632	-0.341435158	0.349673885
ENSG00000222009	BTBD19	57.68129558	-0.341833354	0.554157856
ENSG00000132623	ANKEF1	114.4515776	-0.342015949	0.445277441
ENSG00000126773	PCNX4	811.0908912	-0.342198237	0.217548692
ENSG00000112159	MDN1	1313.862677	-0.342596485	0.190595547
ENSG00000162062	TEDC2	339.3940884	-0.342668495	0.365961408
ENSG00000117362	APH1A	3007.823221	-0.342709833	0.071801319
ENSG00000105855	ITGB8	14.1829109	-0.343348536	0.748112467
ENSG00000283538	AC005972.3	3.696582298	-0.34356491	0.891283149
ENSG00000134138	MEIS2	27.66091371	-0.343754659	0.732242765
ENSG00000011198	ABHD5	6156.381463	-0.343961989	0.080209778
ENSG00000149273	RPS3	50347.68032	-0.344113105	0.070230525
ENSG00000188171	ZNF626	263.5310892	-0.344217469	0.374117918
ENSG00000164494	PDSS2	675.4942201	-0.344406665	0.171141239
ENSG00000115271	GCA	150.6266568	-0.344531699	0.385428397
ENSG00000124201	ZNFX1	1344.014287	-0.344659707	0.191033526
ENSG00000196188	CTSE	14.52327659	-0.344723237	0.748286414

ENSG00000269609	RPARP-AS1	522.724039	-0.344767019	0.323140308
ENSG00000231584	FAHD2CP	31.11402101	-0.344872149	0.695688708
ENSG00000138802	SEC24B	1293.677022	-0.345104104	0.246085388
ENSG00000132938	MTUS2	8.574440894	-0.345268393	0.827367882
ENSG00000259865	AL390728.6	23.42649341	-0.345915734	0.754575833
ENSG00000120992	LYPLA1	8501.660038	-0.34592569	0.414123938
ENSG00000288066	AC097448.1	95.07168554	-0.346076825	0.428518123
ENSG00000105711	SCN1B	8.642021019	-0.346180885	0.840485448
ENSG00000147533	GOLGA7	478.5772839	-0.346247607	0.181629076
ENSG00000114107	CEP70	253.1201934	-0.346325805	0.371346589
ENSG00000137992	DBT	666.6847473	-0.346434808	0.284800732
ENSG00000167656	LY6D	99.81251519	-0.346476211	0.397145157
ENSG00000261505	AL031714.1	35.90667604	-0.346734813	0.63389541
ENSG00000115561	CHMP3	561.0553518	-0.346790741	0.263861856
ENSG00000104219	ZDHHC2	214.3603556	-0.346814693	0.274749543
ENSG00000101856	PGRMC1	1468.827152	-0.346820402	0.083728769
ENSG00000173402	DAG1	32976.39548	-0.346865663	0.141672171
ENSG00000287878	AC022382.2	6.029702856	-0.346908564	0.845615609
ENSG00000198185	ZNF334	87.69456221	-0.346909542	0.637474252
ENSG00000105708	ZNF14	264.9898009	-0.347055176	0.331309531
ENSG00000102870	ZNF629	77.63079223	-0.347402689	0.591684738
ENSG00000235408	SNORA71B	9.933982858	-0.347498297	0.796288824
ENSG00000164007	CLDN19	14.15543846	-0.347576492	0.799992189
ENSG00000138375	SMARCAL1	459.7539442	-0.347817727	0.180727577

ENSG00000111666	CHPT1	581.9717123	-0.347821095	0.239261167
ENSG00000237330	RNF223	95.77162369	-0.347989824	0.552302868
ENSG00000260284	TPSP2	206.4360218	-0.348282526	0.565997974
ENSG00000102900	NUP93	2046.928008	-0.348306148	0.117587966
ENSG00000132507	EIF5A	8021.641609	-0.348381338	0.126991559
ENSG00000003987	MTMR7	129.6026517	-0.348684772	0.54630747
ENSG00000162757	C1orf74	74.50896676	-0.349139703	0.526423701
ENSG00000127585	FBXL16	209.2297702	-0.349281971	0.454739016
ENSG00000125733	TRIP10	3574.829576	-0.349440919	0.282406391
ENSG00000149054	ZNF215	82.20274391	-0.349607771	0.516145326
ENSG00000250565	ATP6V1E2	20.07621163	-0.349712656	0.694628634
ENSG00000255845	AP000777.1	10.38620382	-0.349731894	0.776570782
ENSG00000116147	TNR	18.92488943	-0.34974614	0.720857836
ENSG00000170832	USP32	1972.8135	-0.349852239	0.247529397
ENSG00000166106	ADAMTS15	5.796287915	-0.350013899	0.84090412
ENSG00000156639	ZFAND3	3418.630507	-0.350058745	0.160409301
ENSG00000141385	AFG3L2	1214.796416	-0.350293228	0.154143444
ENSG00000116120	FARSB	2258.690857	-0.350342795	0.151315689
ENSG00000104427	ZC2HC1A	358.0076051	-0.350358852	0.458305222
ENSG00000145907	G3BP1	4842.215016	-0.350543506	0.095909447
ENSG00000068078	FGFR3	897.9226279	-0.350633513	0.487228814
ENSG00000211456	SACM1L	789.2773607	-0.350691193	0.148169021
ENSG00000103512	NOMO1	5233.751631	-0.350808076	0.07146836
ENSG00000163541	SUCLG1	1681.195755	-0.351034862	0.097752866

ENSG00000204540	PSORS1C1	22.5063944	-0.351218232	0.736414555
ENSG00000260027	HOXB7	7.997688042	-0.351259933	0.829070202
ENSG00000101290	CDS2	1109.945834	-0.351407021	0.137025272
ENSG00000142687	KIAA0319L	1787.391861	-0.351529507	0.216265218
ENSG00000213513	IMPDH1P5	228.0491043	-0.351666261	0.42533203
ENSG00000106789	CORO2A	1187.437876	-0.351903581	0.186936836
ENSG00000169155	ZBTB43	980.6386635	-0.352000017	0.165641398
ENSG00000126746	ZNF384	1283.223421	-0.352081216	0.227438777
ENSG00000188985	DHFRP1	5.800536904	-0.352106773	0.860938453
ENSG00000122694	GLIPR2	96.19653161	-0.352207688	0.56852894
ENSG00000165169	DYNLT3	860.3543366	-0.352244312	0.246884264
ENSG00000156973	PDE6D	268.5425949	-0.352263	0.368257926
ENSG00000186187	ZNRF1	2533.920854	-0.352353851	0.286656861
ENSG00000155368	DBI	2584.891841	-0.352493332	0.101739938
ENSG00000147454	SLC25A37	1123.013093	-0.35249536	0.11712951
ENSG00000161958	FGF11	6.057463376	-0.352535878	0.867806868
ENSG00000110075	PPP6R3	3449.851173	-0.35325835	0.138542442
ENSG00000182552	RWDD4	325.4967557	-0.353311862	0.212749974
ENSG00000198453	ZNF568	112.810596	-0.353506465	0.440080543
ENSG00000104450	SPAG1	177.4379926	-0.353543987	0.394985509
ENSG00000025434	NR1H3	890.2780213	-0.353779722	0.222214357
ENSG00000164466	SFXN1	5723.601468	-0.353816449	0.161961682
ENSG00000120318	ARAP3	28.90313084	-0.354087495	0.68162475
ENSG00000197324	LRP10	5292.043449	-0.354090264	0.126614611

ENSG00000099917	MED15	4378.072963	-0.354206017	0.108753525
ENSG00000067596	DHX8	2975.95583	-0.35431092	0.146193741
ENSG00000134490	TMEM241	315.8516514	-0.354510033	0.298021236
ENSG00000175356	SCUBE2	5.255893063	-0.354686847	0.887110176
ENSG00000063046	EIF4B	20262.04583	-0.354788549	0.143112676
ENSG00000159256	MORC3	784.3037514	-0.354976948	0.225543887
ENSG00000139405	RITA1	484.0617751	-0.355375847	0.202548288
ENSG00000138744	NAAA	90.34815279	-0.355432028	0.515922363
ENSG00000163636	PSMD6	4142.846694	-0.355607056	0.11339628
ENSG00000138796	HADH	891.8875202	-0.355649523	0.270823551
ENSG00000140319	SRP14	3536.045471	-0.355667038	0.077989501
ENSG00000108559	NUP88	2444.456848	-0.35577437	0.105745436
ENSG00000137944	KYAT3	1658.911291	-0.355882206	0.136986304
ENSG00000056736	IL17RB	24.83581685	-0.355915167	0.687176798
ENSG00000112425	EPM2A	9.829125716	-0.355918452	0.815442274
ENSG00000128989	ARPP19	2901.137138	-0.355949159	0.165845286
ENSG00000065413	ANKRD44	57.41589854	-0.356047066	0.495235353
ENSG00000242622	AC092910.3	40.73276118	-0.356116785	0.59744791
ENSG00000268575	AL031282.2	21.89498839	-0.356167416	0.679403387
ENSG00000173599	PC	436.6333374	-0.356744988	0.190837611
ENSG00000040487	SLC66A1	787.9377615	-0.356753666	0.301491132
ENSG00000259250	AC018904.1	8.094578916	-0.357113745	0.818381151
ENSG00000185591	SP1	5499.271801	-0.357273103	0.250234806
ENSG00000170608	FOXA3	10.62057169	-0.357275785	0.801842676

ENSG00000225083	GRTP1-AS1	3.455498824	-0.357474822	0.906502941
ENSG00000130748	TMEM160	130.6738761	-0.357506568	0.389833435
ENSG00000147400	CETN2	466.4347734	-0.357822196	0.375670189
ENSG00000117262	GPR89A	204.9314154	-0.357954394	0.272980729
ENSG00000137218	FRS3	48.78910501	-0.358016496	0.597117295
ENSG00000154059	IMPACT	277.4301245	-0.358135491	0.265542759
ENSG00000250909	AC138956.1	2.521184	-0.3584507	0.9340081
ENSG00000169221	TBC1D10B	1785.383616	-0.358546103	0.183309678
ENSG00000062725	APPBP2	2647.317393	-0.358695092	0.332808719
ENSG00000105887	MTPN	3874.111078	-0.358715332	0.134478763
ENSG00000104312	RIPK2	4743.789088	-0.358748573	0.164472932
ENSG00000269514	AC024257.3	7.706056285	-0.35896565	0.808837576
ENSG00000134901	POGLUT2	452.0401188	-0.359062288	0.288310472
ENSG00000140545	MFGE8	238.3196009	-0.359205286	0.365866582
ENSG00000084463	WBP11	4716.358998	-0.359233389	0.103384973
ENSG00000137266	SLC22A23	1332.39395	-0.359263024	0.368317901
ENSG00000006377	DLX6	104.7998815	-0.35934893	0.458599905
ENSG00000105464	GRIN2D	1237.616051	-0.359456697	0.168471015
ENSG00000178229	ZNF543	102.6368162	-0.359727694	0.373598675
ENSG00000156398	SFXN2	683.1349879	-0.360114801	0.184753502
ENSG00000063660	GPC1	10475.00715	-0.360356806	0.136829737
ENSG00000227536	SOCS5P4	2.311447	-0.3606521	0.9354562
ENSG00000269466	H3.Y	2.311447	-0.3606521	0.9354562
ENSG00000255145	STX17-AS1	7.454621642	-0.360750789	0.806886175

ENSG00000153975	ZUP1	323.5637988	-0.360832492	0.246014732
ENSG00000250012	AC079848.1	4.233842736	-0.360838857	0.885969579
ENSG00000136536	MARCH7	3915.688395	-0.360879345	0.152351968
ENSG00000113360	DROSHA	1397.373482	-0.361011492	0.077279762
ENSG00000263563	UBBP4	25.65391885	-0.361051432	0.66088297
ENSG00000133243	BTBD2	1204.018615	-0.361248553	0.248304315
ENSG00000155660	PDIA4	25652.7006	-0.361266339	0.093564741
ENSG00000126777	KTN1	10718.2394	-0.361666286	0.116926794
ENSG00000187210	GCNT1	2167.477543	-0.361724928	0.165906624
ENSG00000147996	CBWD5	309.2044529	-0.361890267	0.214634475
ENSG00000102387	TAF7L	10.08524267	-0.361892167	0.80143477
ENSG00000270728	AL035413.1	17.71653204	-0.362190597	0.764421817
ENSG00000198182	ZNF607	218.4938381	-0.362432749	0.236147749
ENSG00000273554	AC136616.1	50.6423505	-0.362450347	0.629228569
ENSG00000181458	TMEM45A	53.56888385	-0.362509332	0.632741233
ENSG00000165219	GAPVD1	5567.385648	-0.362689661	0.180048586
ENSG00000169495	HTRA4	4747.260588	-0.362835051	0.362425784
ENSG00000157617	C2CD2	596.1045597	-0.363030484	0.270260396
ENSG00000197744	PTMAP2	50.16633213	-0.363056212	0.592057775
ENSG00000277053	GTF2IP1	222.1250068	-0.363268775	0.250450702
ENSG00000168385	SEPTIN2	8111.863459	-0.363381631	0.105247215
ENSG00000204959	ARHGEF34P	297.4673936	-0.363545242	0.378740524
ENSG00000196083	IL1RAP	3529.458742	-0.363642933	0.219109846
ENSG00000144668	ITGA9	13.11039389	-0.363658658	0.754582759

ENSG00000176490	DIRAS1	26.24193955	-0.363809931	0.696250953
ENSG00000066777	ARFGEF1	2815.379758	-0.363886128	0.202418384
ENSG00000164167	LSM6	283.0940487	-0.364185679	0.228764036
ENSG00000197608	ZNF841	846.5609001	-0.364438067	0.16740179
ENSG00000122778	KIAA1549	1517.911025	-0.364466442	0.161782872
ENSG00000153113	CAST	3693.470495	-0.364553835	0.073362918
ENSG00000082213	C5orf22	564.1815786	-0.364592462	0.1384959
ENSG00000006210	CX3CL1	36.09640117	-0.365179818	0.735785148
ENSG00000107262	BAG1	3321.409665	-0.365241907	0.129402067
ENSG00000179456	ZBTB18	127.6975604	-0.365348388	0.506639684
ENSG00000170369	CST2	227.2148566	-0.365348662	0.502346676
ENSG00000107018	RLN1	42.40817861	-0.365391319	0.676207776
ENSG00000122565	CBX3	9047.134757	-0.365570323	0.044601641
ENSG00000259755	AC090907.2	31.75845141	-0.365684573	0.654733759
ENSG00000151247	EIF4E	2110.533694	-0.365798608	0.108937171
ENSG00000261061	AC092718.4	123.2400163	-0.365853999	0.407965444
ENSG00000102763	VWA8	520.260374	-0.366011488	0.18368719
ENSG00000184108	TRIML1	106.9651258	-0.366015771	0.616460209
ENSG00000134853	PDGFRA	8.480928208	-0.366349993	0.820018683
ENSG00000072832	CRMP1	32.47047827	-0.366426445	0.664199367
ENSG00000165609	NUDT5	1483.679207	-0.366489309	0.101219252
ENSG00000106153	CHCHD2	7612.959533	-0.366565043	0.058096054
ENSG00000157181	ODR4	2092.717859	-0.36656888	0.158997218
ENSG00000268218	AC137932.3	39.85520843	-0.366624346	0.579690068

ENSG00000244617	ASPRV1	14.39354206	-0.366678313	0.768875132
ENSG00000142347	MYO1F	18.3269145	-0.367053127	0.725950133
ENSG00000168993	CPLX1	37.00485728	-0.367273968	0.578219329
ENSG00000151090	THRB	679.1744397	-0.36737501	0.23944195
ENSG00000011376	LARS2	752.7868948	-0.367598052	0.150123694
ENSG00000155189	AGPAT5	731.2427032	-0.367854065	0.1274511
ENSG00000034152	MAP2K3	1317.816496	-0.368088084	0.282979186
ENSG00000152443	ZNF776	176.9005369	-0.368158688	0.273981306
ENSG00000166171	DPCD	127.0968861	-0.368343429	0.433883632
ENSG00000102221	JADE3	1407.457182	-0.36842637	0.152108727
ENSG00000108518	PFN1	9256.261054	-0.368576719	0.070992454
ENSG00000166262	FAM227B	5.931059833	-0.368624716	0.868793294
ENSG00000235109	ZSCAN31	40.56300386	-0.368636406	0.607124836
ENSG00000178772	CPN2	3.031396198	-0.368654255	0.915846505
ENSG00000132801	ZSWIM3	39.20045575	-0.368815854	0.608451626
ENSG00000138434	ITPRID2	6003.121138	-0.368847981	0.250172737
ENSG00000107937	GTPBP4	4171.965902	-0.369102853	0.101375273
ENSG00000242779	ZNF702P	3506.64574	-0.369358581	0.152671592
ENSG00000122390	NAA60	3019.881901	-0.369475641	0.105950628
ENSG00000119729	RHOQ	223.474062	-0.369651552	0.289392967
ENSG00000166669	ATF7IP2	577.1261826	-0.369666103	0.154662275
ENSG00000080298	RFX3	229.9605465	-0.369670633	0.452318153
ENSG00000135537	AFG1L	94.18884061	-0.36976875	0.389041773
ENSG00000196305	IARS	7661.478252	-0.369971301	0.209304292

ENSG00000160193	WDR4	585.1589055	-0.370237135	0.122752336
ENSG00000151465	CDC123	1671.293017	-0.370356805	0.112109873
ENSG00000094916	CBX5	2205.797017	-0.370375082	0.142130311
ENSG00000086619	ERO1B	270.2069044	-0.370413706	0.352133838
ENSG00000105355	PLIN3	2374.261386	-0.3705703	0.468380368
ENSG00000072736	NFATC3	901.9328851	-0.370902896	0.224032894
ENSG00000183495	EP400	3253.815541	-0.371057697	0.335441441
ENSG00000006432	MAP3K9	452.1904943	-0.371189445	0.274749543
ENSG00000167720	SRR	109.157835	-0.371291358	0.526182389
ENSG00000135740	SLC9A5	13.88626917	-0.37167905	0.756374376
ENSG00000181788	SIAH2	5721.932776	-0.371704523	0.156472614
ENSG00000148798	INA	193.3818956	-0.371906911	0.535974083
ENSG00000286358	AC096647.1	15.71397998	-0.372045761	0.739697846
ENSG00000137185	ZSCAN9	741.0497988	-0.37224058	0.150573912
ENSG00000171552	BCL2L1	4317.96716	-0.3723334	0.173935571
ENSG00000125878	TCF15	10.37988161	-0.372486391	0.820288543
ENSG00000164284	GRPEL2	1724.383546	-0.372599535	0.096457675
ENSG00000166321	NUDT13	35.50267401	-0.372610132	0.624518404
ENSG00000071051	NCK2	1323.745782	-0.372616687	0.237189703
ENSG00000143669	LYST	121.5601072	-0.372828619	0.420144898
ENSG00000004766	VPS50	1051.147677	-0.372949717	0.121135702
ENSG00000276668	AC104237.3	7.230648233	-0.37324679	0.849189252
ENSG00000172955	ADH6	4.070977709	-0.373315893	0.874417764
ENSG00000196205	EEF1A1P5	2700.993119	-0.373444237	0.141624216

ENSG00000266173	STRADA	27.43833666	-0.373509102	0.615041561
ENSG00000213089	PDCL3P5	9.928429817	-0.374153224	0.827879963
ENSG00000232748	AC135050.1	10.87037307	-0.37427318	0.800345178
ENSG00000213588	ZBTB9	173.0489797	-0.374369659	0.30687671
ENSG00000119509	INVS	309.201994	-0.374522371	0.20199313
ENSG00000263528	IKBKE	106.1646077	-0.374729838	0.531586508
ENSG00000219665	ZNF433-AS1	56.37487287	-0.37479007	0.482160758
ENSG00000261488	TBILA	16.90506659	-0.374910424	0.699094697
ENSG00000148019	CEP78	734.5456634	-0.374956379	0.154728424
ENSG00000149177	PTPRJ	464.7100576	-0.375074565	0.267062304
ENSG00000133250	ZNF414	143.0465018	-0.375097158	0.293149688
ENSG00000144118	RALB	6241.608263	-0.376028428	0.153385378
ENSG00000175711	B3GNTL1	84.00003619	-0.376197896	0.52446986
ENSG00000104047	DTWD1	335.2516037	-0.376847155	0.249999176
ENSG00000173889	PHC3	1345.953787	-0.376879384	0.22037115
ENSG00000164576	SAP30L	284.1068437	-0.377223602	0.27753271
ENSG00000151233	GXYLT1	1043.651121	-0.377299064	0.071375477
ENSG00000106484	MEST	30455.04078	-0.377340528	0.367370201
ENSG00000135045	C9orf40	538.8744125	-0.377342448	0.28706181
ENSG00000260367	AC109460.1	6.056277899	-0.377396043	0.837128053
ENSG00000137075	RNF38	3960.706347	-0.377411834	0.303692212
ENSG00000089775	ZBTB25	146.9082216	-0.377467987	0.345050062
ENSG00000173210	ABLIM3	86.45978947	-0.377557944	0.43973883
ENSG00000204152	TIMM23B	43.22505589	-0.377657545	0.631176453

ENSG00000150556	LYPD6B	34.03527641	-0.377681673	0.696555942
ENSG00000108061	SHOC2	1124.447044	-0.377719854	0.071996101
ENSG00000100442	FKBP3	924.9367145	-0.377810309	0.076813265
ENSG00000072401	UBE2D1	779.3729112	-0.378218714	0.171643988
ENSG00000106772	PRUNE2	14.56683985	-0.378233214	0.734191554
ENSG00000285714	AL159158.1	53.02264398	-0.378278464	0.517035255
ENSG00000005108	THSD7A	217.0409932	-0.378536178	0.328896271
ENSG00000133328	PLAAT2	26.74892134	-0.378945688	0.643485344
ENSG00000125351	UPF3B	629.4094255	-0.37917922	0.258828566
ENSG00000152465	NMT2	71.49337038	-0.379635977	0.536152127
ENSG00000133641	C12orf29	314.5720589	-0.379722697	0.273147948
ENSG00000249471	ZNF324B	29.66555069	-0.379919059	0.65654311
ENSG00000260916	CCPG1	136.3124728	-0.38017339	0.50348439
ENSG00000129480	DTD2	65.76251716	-0.380337151	0.512742914
ENSG00000167778	SPRYD3	789.6174491	-0.380721778	0.175658391
ENSG00000153187	HNRNPU	16591.38532	-0.381032851	0.060623237
ENSG00000156958	GALK2	686.6894645	-0.3810596	0.180688196
ENSG00000237854	LINC00674	7.462881688	-0.381211761	0.805273232
ENSG00000166188	ZNF319	72.39019824	-0.38122098	0.523304739
ENSG00000162734	PEA15	4494.665631	-0.381396597	0.147458769
ENSG00000065665	SEC61A2	46.2403617	-0.38163056	0.585438019
ENSG00000102471	NDFIP2	2720.077153	-0.381723224	0.142070344
ENSG00000013016	EHD3	8032.158513	-0.382146558	0.312347693
ENSG00000241741	RPL7AP30	4.852540066	-0.382311747	0.841618436

ENSG00000185585	OLFML2A	12.49133911	-0.382332683	0.761684187
ENSG00000275223	AL121906.2	29.30591917	-0.382338446	0.643685246
ENSG00000110442	COMMD9	799.9397445	-0.382400012	0.229896122
ENSG00000145348	TBCK	304.5686115	-0.382446834	0.175614947
ENSG00000266651	AC093484.4	11.41236187	-0.382613052	0.753608067
ENSG00000101353	MROH8	8.539181996	-0.382672004	0.781754572
ENSG00000116871	MAP7D1	4898.38812	-0.382905798	0.123128106
ENSG00000121769	FABP3	38.13589285	-0.382979406	0.53970159
ENSG00000185442	FAM174B	96.245889	-0.383036885	0.452318153
ENSG00000153822	KCNJ16	2.175769253	-0.383046659	0.923115334
ENSG00000154864	PIEZO2	2.175769253	-0.383046659	0.923115334
ENSG00000231908	IDH1-AS1	3.050106535	-0.383123393	0.912261868
ENSG00000147050	KDM6A	2169.391647	-0.38316288	0.133945804
ENSG00000269821	KCNQ1OT1	151.6209141	-0.383526514	0.431937521
ENSG00000233780	HNRNPA1P30	12.61696472	-0.38352983	0.736414555
ENSG00000173480	ZNF417	140.976971	-0.383662453	0.301563307
ENSG00000138835	RGS3	640.6846019	-0.383839887	0.388437009
ENSG00000138592	USP8	2668.314907	-0.383867221	0.131269666
ENSG00000186787	SPIN2B	48.4625049	-0.38415282	0.545358274
ENSG00000233966	UBE2SP1	5.243976155	-0.384199338	0.853506815
ENSG00000090238	YPEL3	851.1358896	-0.384234325	0.100524953
ENSG00000116688	MFN2	8156.013738	-0.384511341	0.208013445
ENSG00000156162	DPY19L4	446.9023753	-0.384516239	0.2493374
ENSG00000152242	C18orf25	1109.759315	-0.384565677	0.179744019

ENSG00000146733	PSPH	254.779931	-0.384704814	0.365961408
ENSG00000159593	NAE1	1285.026086	-0.384748119	0.069741298
ENSG00000258634	AL160006.1	242.10509	-0.384761764	0.412179632
ENSG00000124466	LYPD3	12975.75973	-0.385076328	0.139643265
ENSG00000174564	IL20RB	2000.885069	-0.385187443	0.254764798
ENSG00000146856	AGBL3	9.957370104	-0.385592609	0.791691848
ENSG00000115524	SF3B1	15132.89106	-0.385615101	0.089312541
ENSG00000260992	DOCK9-DT	41.32853009	-0.385983516	0.587980919
ENSG00000279286	AL133373.2	3.958773213	-0.386289864	0.874328237
ENSG00000129493	HEATR5A	1749.609243	-0.386445818	0.39739957
ENSG00000186468	RPS23	6361.174095	-0.386532305	0.032898511
ENSG00000125944	HNRNPR	10130.66122	-0.386570817	0.0438498
ENSG00000183196	CHST6	152.6394611	-0.386675173	0.543957238
ENSG00000132388	UBE2G1	5078.490344	-0.387074543	0.074707337
ENSG00000122545	SEPTIN7	3643.889747	-0.387090051	0.081604423
ENSG00000162595	DIRAS3	4.49783886	-0.38741613	0.870465847
ENSG00000126602	TRAP1	1372.762639	-0.387514166	0.190563983
ENSG00000079805	DNM2	3438.526694	-0.387688129	0.104024815
ENSG00000198768	APCDD1L	5.532245729	-0.387708487	0.863955483
ENSG00000170965	PLAC1	32.33936504	-0.387771201	0.679694813
ENSG00000189042	ZNF567	576.6737238	-0.387962684	0.193785995
ENSG00000258559	AC005519.1	8.743922006	-0.388257815	0.778888151
ENSG00000159403	C1R	4.364694877	-0.388368712	0.892714527
ENSG00000143811	PYCR2	359.2402278	-0.388403695	0.163457384

ENSG00000168481	LGI3	15.60446272	-0.388471303	0.753907524
ENSG00000154898	CCDC144CP	58.36865377	-0.388596297	0.541564663
ENSG00000158717	RNF166	130.4610758	-0.388894914	0.294418755
ENSG00000104687	GSR	933.050443	-0.388946907	0.164875776
ENSG00000164707	SLC13A4	14126.97476	-0.389052529	0.145783998
ENSG00000103769	RAB11A	10453.02039	-0.389077274	0.092033502
ENSG00000163428	LRRC58	1337.04362	-0.389213379	0.100850951
ENSG00000173145	NOC3L	459.7258718	-0.3893321	0.200209964
ENSG00000185973	TMLHE	44.68513947	-0.389443848	0.575103016
ENSG00000141012	GALNS	822.69428	-0.38945091	0.137044632
ENSG00000108509	CAMTA2	1454.431474	-0.389843078	0.268892287
ENSG00000283526	PRRT1B	6.474331715	-0.389863523	0.833824392
ENSG00000114737	CISH	50.64991871	-0.389897668	0.567736772
ENSG00000173575	CHD2	4909.889828	-0.389997634	0.263841783
ENSG00000149257	SERPINH1	2962.657047	-0.390014214	0.206272863
ENSG00000142230	SAE1	7745.174893	-0.390325	0.037361502
ENSG00000185900	POMK	94.51336197	-0.390391398	0.432798048
ENSG00000228748	AL450306.1	97.74528287	-0.390489099	0.383063202
ENSG00000249115	HAUS5	655.7680846	-0.390759972	0.196242578
ENSG00000115107	STEAP3	141.0310293	-0.390876188	0.458713971
ENSG00000178502	KLHL11	230.1666484	-0.391029114	0.307785554
ENSG00000070061	ELP1	1362.859551	-0.391234685	0.073094783
ENSG00000152256	PDK1	400.5308426	-0.391456204	0.150055066
ENSG00000176624	MEX3C	624.9805964	-0.391546264	0.123685992

ENSG00000271009	AC116667.1	9.93091212	-0.391772453	0.779296016
ENSG00000074696	HACD3	7427.614442	-0.391856697	0.197385811
ENSG00000074755	ZZEF1	2767.52885	-0.392061857	0.203309888
ENSG00000168066	SF1	7307.811066	-0.392268092	0.156937696
ENSG00000006125	AP2B1	3721.908905	-0.392501076	0.142120086
ENSG00000099810	MTAP	1035.096505	-0.392501115	0.06950155
ENSG00000057608	GDI2	6678.585058	-0.392662824	0.068555722
ENSG00000093167	LRRFIP2	1965.154678	-0.392853618	0.078504092
ENSG00000198168	SVIP	218.6010003	-0.393003055	0.300701379
ENSG00000135297	MTO1	901.8404865	-0.393085097	0.161961682
ENSG00000170417	TMEM182	154.3662629	-0.393163252	0.338782408
ENSG00000164828	SUN1	3641.888987	-0.393252379	0.234998811
ENSG00000151779	NBAS	1731.250203	-0.39330958	0.250351105
ENSG00000129654	FOXJ1	8.582352264	-0.393415553	0.789058643
ENSG00000008083	JARID2	2483.902764	-0.393781253	0.113791214
ENSG00000136883	KIF12	9.799328058	-0.394073109	0.840820856
ENSG00000157800	SLC37A3	2185.553232	-0.394288787	0.126515673
ENSG00000198870	STKLD1	52.76624282	-0.394911866	0.560129308
ENSG00000170242	USP47	4727.363088	-0.394965105	0.139324078
ENSG00000211445	GPX3	532.3753071	-0.394999749	0.383714901
ENSG00000267121	AC008105.3	20.64110741	-0.395042911	0.713880088
ENSG00000250506	CDK3	8.996571271	-0.39516753	0.81941819
ENSG00000165995	CACNB2	14.87409175	-0.395230885	0.714979398
ENSG00000157693	TMEM268	183.803661	-0.395265698	0.423905472

ENSG00000073614	KDM5A	1457.927741	-0.395443634	0.130403625
ENSG00000134255	CEPT1	1092.016813	-0.395481491	0.158815722
ENSG00000141030	COPS3	1134.661578	-0.39556952	0.128737653
ENSG00000144959	NCEH1	1158.664517	-0.395637754	0.309886275
ENSG00000110887	DAO	491.1124947	-0.395723318	0.438773202
ENSG00000016864	GLT8D1	692.7850115	-0.395764836	0.113840139
ENSG00000163818	LZTFL1	32.38161826	-0.396218007	0.642526596
ENSG00000227855	DPY19L2P3	27.78910384	-0.396462548	0.658757793
ENSG00000197928	ZNF677	270.4676258	-0.397215291	0.311055016
ENSG00000185989	RASA3	20.53157683	-0.39723416	0.739650175
ENSG00000139793	MBNL2	4922.076247	-0.397291974	0.125268353
ENSG00000244754	N4BP2L2	2416.502465	-0.397294131	0.078893663
ENSG00000150760	DOCK1	2248.957978	-0.397995032	0.118837629
ENSG00000137822	TUBGCP4	667.9080527	-0.39806061	0.197848218
ENSG00000153558	FBXL2	21.98976576	-0.398088132	0.676724651
ENSG00000164032	H2AFZ	7937.304395	-0.398255275	0.090057439
ENSG00000179528	LBX2	164.1335548	-0.398581345	0.453660591
ENSG00000170325	PRDM10	724.3694634	-0.398602214	0.292332535
ENSG00000198894	CIPC	721.9594354	-0.398680185	0.10377212
ENSG00000006555	TTC22	6.511512363	-0.398824466	0.846859556
ENSG00000012174	MBTPS2	583.4600611	-0.398841111	0.178357884
ENSG00000257923	CUX1	905.6681089	-0.399012527	0.137933473
ENSG00000140450	ARRDC4	39.33608311	-0.399100851	0.599026275
ENSG00000070614	NDST1	1543.704838	-0.399182889	0.263078947

ENSG00000233379	AL139002.1	64.45988851	-0.399282945	0.592204592
ENSG00000135968	GCC2	1788.892173	-0.399316491	0.109977285
ENSG00000259657	PIGHP1	6.22141874	-0.399409324	0.818728944
ENSG00000065457	ADAT1	466.8702233	-0.399607957	0.168175339
ENSG00000226791	LINC02611	167.4810369	-0.399675475	0.443501491
ENSG00000064989	CALCRL	3.830158976	-0.399781433	0.884637357
ENSG00000284701	TMEM247	413.1449731	-0.399821089	0.363006085
ENSG00000273472	AC096733.2	55.17968851	-0.399855079	0.683267716
ENSG00000088451	TGDS	282.3338338	-0.399979877	0.28706181
ENSG00000233426	EIF3FP3	36.64974937	-0.400031441	0.565997974
ENSG00000204217	BMPR2	1507.89329	-0.400062054	0.171006573
ENSG00000198951	NAGA	1896.121476	-0.400337344	0.175945145
ENSG00000152234	ATP5F1A	20366.93245	-0.400363323	0.083644079
ENSG00000265749	AC135178.4	9.182172229	-0.400393519	0.791547536
ENSG00000084774	CAD	2416.966217	-0.400526377	0.165672856
ENSG00000119865	CNRIP1	3.843010362	-0.400598192	0.887324389
ENSG00000058804	NDC1	1921.833795	-0.400651355	0.04342126
ENSG00000117153	KLHL12	606.0040102	-0.400768437	0.095915507
ENSG00000178295	GEN1	435.9591167	-0.400891054	0.249251201
ENSG00000104518	GSDMD	690.3340803	-0.400924997	0.125646744
ENSG00000138078	PREPL	1140.679044	-0.401144085	0.096513951
ENSG00000182400	TRAPPC6B	122.113318	-0.401176654	0.301833162
ENSG00000179715	PCED1B	11.17748031	-0.401336668	0.747017887
ENSG00000143367	TUFT1	3781.27528	-0.401481736	0.054085635

ENSG00000129317	PUS7L	577.1510979	-0.401943491	0.133649886
ENSG00000168291	PDHB	1501.580902	-0.402373894	0.080821641
ENSG00000183826	BTBD9	1615.29542	-0.402419183	0.093550186
ENSG00000204172	AGAP9	84.5877113	-0.403110921	0.419568166
ENSG00000114670	NEK11	14.66170266	-0.403187362	0.695978684
ENSG00000186280	KDM4D	13.48144323	-0.403222084	0.73787299
ENSG00000100994	PYGB	1977.089484	-0.403373982	0.16015808
ENSG00000117450	PRDX1	12802.24839	-0.403476506	0.081360971
ENSG00000140474	ULK3	1446.056448	-0.403494849	0.215447311
ENSG00000061676	NCKAP1	7819.698156	-0.404850392	0.062078442
ENSG00000158169	FANCC	242.3467179	-0.40485677	0.212153411
ENSG00000115649	CNPPD1	1381.486351	-0.404879374	0.163319601
ENSG00000198498	TMA16	423.7393258	-0.404935499	0.147876548
ENSG00000280670	CCDC163	218.6016098	-0.404999668	0.347205886
ENSG00000146530	VWDE	16.59690236	-0.405039074	0.684575287
ENSG00000185920	PTCH1	156.6542167	-0.405124989	0.256938021
ENSG00000186416	NKRF	1130.458104	-0.405157069	0.144979426
ENSG00000120910	PPP3CC	278.7323616	-0.405174574	0.213035977
ENSG00000204856	FAM216A	14.80141851	-0.40531928	0.699955516
ENSG00000111832	RWDD1	775.6049318	-0.405516539	0.253898755
ENSG00000182985	CADM1	246.8088776	-0.405528371	0.405944592
ENSG00000155974	GRIP1	511.8182448	-0.405669044	0.285107865
ENSG00000235790	AC114488.2	8.047988308	-0.405773499	0.779479389
ENSG00000147162	OGT	3882.268501	-0.405812715	0.061932751

ENSG00000091140	DLD	1536.009825	-0.405816926	0.068484987
ENSG00000180776	ZDHHC20	4834.246029	-0.40589968	0.152148653
ENSG00000180891	CUEDC1	241.8010573	-0.405926858	0.207416119
ENSG00000020577	SAMD4A	914.6029711	-0.406047566	0.194651839
ENSG00000131981	LGALS3	1886.653942	-0.406153972	0.193673896
ENSG00000215859	PDZK1P1	7.01474846	-0.406288113	0.79899734
ENSG00000204054	LINC00963	453.9211174	-0.406384588	0.222038731
ENSG00000169251	NMD3	2192.244592	-0.40687885	0.11761324
ENSG00000183421	RIPK4	433.8725907	-0.406928016	0.200905528
ENSG00000123124	WWP1	1518.555735	-0.406938649	0.200796224
ENSG00000183475	ASB7	280.3845788	-0.407162862	0.2510627
ENSG00000186566	GPATCH8	1779.296473	-0.407225591	0.134451789
ENSG00000236529	AC093582.1	27.69268784	-0.407297195	0.610595143
ENSG00000183578	TNFAIP8L3	12.24055335	-0.407642994	0.743730918
ENSG00000041357	PSMA4	4405.862907	-0.407653377	0.089873591
ENSG00000137857	DUOX1	24.21950496	-0.407839371	0.647921632
ENSG00000269235	ZNF350-AS1	11.92100037	-0.407855318	0.744921848
ENSG00000014914	MTMR11	511.1612347	-0.408006058	0.258761612
ENSG00000054267	ARID4B	1200.558208	-0.408021032	0.085661727
ENSG00000090905	TNRC6A	506.4066309	-0.408130384	0.257870618
ENSG00000137766	UNC13C	14.06848034	-0.408243092	0.730629881
ENSG00000198055	GRK6	1070.399494	-0.408304809	0.183702617
ENSG00000125827	TMX4	95.80134963	-0.408389485	0.333654759
ENSG00000072134	EPN2	1486.137258	-0.40888645	0.147706438

ENSG00000121316	PLBD1	2395.604208	-0.409117447	0.067665824
ENSG00000205740	AL359878.1	4.766648311	-0.409359477	0.850573439
ENSG00000197766	CFD	79.84592423	-0.409589036	0.3716094
ENSG00000146021	KLHL3	6.435423563	-0.409707417	0.806806706
ENSG00000223773	CD99P1	410.9987759	-0.409755709	0.200563133
ENSG00000135919	SERPINE2	1296.684251	-0.409809332	0.423637279
ENSG00000188338	SLC38A3	9746.259124	-0.409941251	0.072656216
ENSG00000213719	CLIC1	8986.67115	-0.409992568	0.094995754
ENSG00000136891	TEX10	3078.142998	-0.410348714	0.074508945
ENSG00000117266	CDK18	239.5374055	-0.41039512	0.341281977
ENSG00000144749	LRIG1	41.49560624	-0.410455148	0.549029203
ENSG00000168502	MTCL1	79.8604111	-0.410501353	0.482697835
ENSG00000125779	PANK2	520.2410538	-0.410841789	0.107337288
ENSG00000149313	AASDHPPT	493.2094659	-0.41121241	0.158890598
ENSG00000161558	TMEM143	83.96487174	-0.411228237	0.486633432
ENSG00000135525	MAP7	4281.862714	-0.411471809	0.088257906
ENSG00000114867	EIF4G1	49819.15879	-0.411510525	0.068737531
ENSG00000078142	PIK3C3	895.3812534	-0.411841179	0.066434266
ENSG00000198734	F5	31.79946079	-0.41212373	0.55790028
ENSG00000105576	TNPO2	1535.505956	-0.412385521	0.085198407
ENSG00000066044	ELAVL1	2532.660081	-0.412505927	0.039003535
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ENSG00000163322	ABRAXAS1	36.38242886	-0.412743577	0.593755801
ENSG00000174898	CATSPERD	4.138343818	-0.413252292	0.857756082

ENSG00000125814	NAPB	223.7568474	-0.413291725	0.193792361
ENSG00000037042	TUBG2	227.6909523	-0.413867982	0.326969557
ENSG00000171368	TPPP	22.05512078	-0.414056945	0.640112749
ENSG00000238197	PAXBP1-AS1	76.12734142	-0.414493552	0.408714683
ENSG00000104728	ARHGEF10	8.721125478	-0.414553028	0.755887287
ENSG00000011304	PTBP1	13693.17052	-0.415064236	0.077660373
ENSG00000158882	TOMM40L	483.1274123	-0.415335435	0.167885236
ENSG00000169756	LIMS1	776.7722639	-0.415495443	0.077731053
ENSG00000168404	MLKL	14.56661792	-0.41556505	0.730629881
ENSG00000258424	AL512791.1	7.548506356	-0.416195446	0.781290275
ENSG00000128165	ADM2	2055.946852	-0.416551705	0.424850893
ENSG00000149925	ALDOA	328.0212443	-0.416572109	0.132479653
ENSG00000111144	LTA4H	1354.973591	-0.416584067	0.073343099
ENSG00000273373	AL355488.1	5.600840926	-0.416729737	0.847247655
ENSG00000197872	FAM49A	9501.246739	-0.416761221	0.052071215
ENSG00000226383	LINC01876	10.59346403	-0.416937816	0.751891019
ENSG00000186364	NUDT17	19.23113177	-0.417199573	0.669308124
ENSG00000115866	DARS	1693.67687	-0.417340775	0.068824886
ENSG00000154518	ATP5MC3	4612.091161	-0.417381741	0.043425824
ENSG00000065150	IPO5	5012.571886	-0.417583882	0.043061627
ENSG00000153531	ADPRHL1	68.10028864	-0.41763955	0.47981093
ENSG00000267440	LINC02594	15.23053602	-0.417718028	0.709864219
ENSG00000153922	CHD1	2556.921455	-0.418018852	0.074986638
ENSG00000163132	MSX1	3.997037395	-0.418108816	0.883323491

ENSG00000185664	PMEL	2563.295892	-0.418599933	0.128015135
ENSG00000103275	UBE2I	1354.880103	-0.418947648	0.037138869
ENSG00000088888	MAVS	1600.645565	-0.419023519	0.033166624
ENSG00000279568	AC093525.9	7.672700273	-0.419261512	0.818496507
ENSG00000232946	AL354707.2	6.748971968	-0.41930759	0.817599846
ENSG00000167987	VPS37C	2694.720874	-0.4195138	0.063736992
ENSG00000274386	TMEM269	8.850819364	-0.419542547	0.761032549
ENSG00000136485	DCAF7	842.2532422	-0.419553996	0.054297671
ENSG00000168000	BSCL2	20.49734815	-0.419559543	0.634438984
ENSG00000102910	LONP2	1946.060253	-0.419645437	0.093303986
ENSG00000116754	SRSF11	4474.734831	-0.41975718	0.048669937
ENSG00000130382	MLLT1	10723.24255	-0.419867572	0.151351815
ENSG00000128513	POT1	331.5261805	-0.41988409	0.160379392
ENSG00000113595	TRIM23	363.3686481	-0.419884348	0.236992455
ENSG00000169570	DTWD2	15.90307291	-0.419932271	0.689593791
ENSG00000234062	AL390879.1	4.422569342	-0.420065758	0.857123283
ENSG00000114854	TNNC1	169.4903386	-0.420461722	0.245352517
ENSG00000153006	SREK1IP1	380.9144139	-0.420486173	0.242141959
ENSG00000067191	CACNB1	6.213785676	-0.42082919	0.829813054
ENSG00000164542	KIAA0895	163.8399262	-0.42117749	0.238020512
ENSG00000132677	RHBG	16.11518272	-0.421188729	0.745845633
ENSG00000272574	AL596325.2	5.176856874	-0.421208788	0.812391619
ENSG00000115825	PRKD3	1126.349185	-0.42133737	0.172323617
ENSG00000175166	PSMD2	21658.97763	-0.421440533	0.049538295

ENSG00000277117	FP565260.3	25.70227091	-0.421490626	0.587774875
ENSG00000120053	GOT1	2311.633385	-0.421533702	0.099753403
ENSG00000135250	SRPK2	650.305781	-0.421558977	0.137589416
ENSG00000151116	UEVLD	622.5783087	-0.421563803	0.088304143
ENSG00000169682	SPNS1	13.97753969	-0.421578975	0.72019697
ENSG00000138617	PARP16	80.17567695	-0.422397316	0.524092342
ENSG00000138246	DNAJC13	1909.613315	-0.422968546	0.103226912
ENSG00000183576	SETD3	1602.074189	-0.423075791	0.068913918
ENSG00000196850	PPTC7	1583.190993	-0.42351388	0.196742427
ENSG00000248599	AC018781.1	13.30754131	-0.4235653	0.770016606
ENSG00000165698	SPACA9	58.82822452	-0.423668436	0.514985469
ENSG00000188130	MAPK12	50.25586157	-0.423779315	0.553622
ENSG00000114391	RPL24	13504.14084	-0.423864038	0.046243955
ENSG00000171084	FAM86JP	30.60882249	-0.423998068	0.664875683
ENSG00000011105	TSPAN9	3976.508809	-0.424085613	0.088919667
ENSG00000021776	AQR	1673.771965	-0.424107385	0.06008583
ENSG00000136758	YME1L1	6418.357499	-0.424313182	0.062277585
ENSG00000087053	MTMR2	1282.674794	-0.4245642	0.078893663
ENSG00000196388	INCA1	41.32838069	-0.424678425	0.530603393
ENSG00000165097	KDM1B	1015.097057	-0.42526772	0.114184719
ENSG00000258168	AC025569.1	18.44503207	-0.425332413	0.682058459
ENSG00000138231	DBR1	425.8727755	-0.425419742	0.095443176
ENSG00000261632	AC022872.1	107.0004649	-0.425452342	0.319324198
ENSG00000258388	PPT2-EGFL8	6.158950495	-0.425505694	0.819658523

ENSG00000083535	PIBF1	205.6497636	-0.425584047	0.280511882
ENSG00000279059	AC007485.2	44.32058719	-0.425640619	0.52027176
ENSG00000174437	ATP2A2	12558.37719	-0.426266798	0.153057954
ENSG00000064309	CDON	9.607881439	-0.426287858	0.786305314
ENSG00000189171	S100A13	100.261872	-0.426364583	0.382670742
ENSG00000160294	MCM3AP	2152.087347	-0.426737098	0.239002915
ENSG00000244556	ODCP	10.4937588	-0.426851395	0.780261358
ENSG00000144426	NBEAL1	759.1700422	-0.42689718	0.278619467
ENSG00000101412	E2F1	2521.043474	-0.427287036	0.043713906
ENSG00000163975	MELTF	96.65136103	-0.427324186	0.29842221
ENSG00000131269	ABCB7	546.2711928	-0.428022845	0.080577566
ENSG00000212864	RNF208	20.86168322	-0.428136324	0.686496463
ENSG00000105514	RAB3D	1412.782684	-0.428164019	0.233723908
ENSG00000223922	ASS1P2	2.459070605	-0.428474033	0.909901812
ENSG00000173212	MAB21L3	69.96044985	-0.428499367	0.58137917
ENSG00000105131	EPHX3	9.244377271	-0.42876154	0.81414161
ENSG00000126261	UBA2	3944.717524	-0.42895126	0.026978557
ENSG00000136104	RNASEH2B	339.7502706	-0.429241515	0.257261345
ENSG00000101367	MAPRE1	5512.471501	-0.429293383	0.036122655
ENSG00000137876	RSL24D1	1657.675443	-0.429554899	0.059505551
ENSG00000260290	AC092115.1	11.16949624	-0.429606214	0.718130123
ENSG00000196724	ZNF418	103.393012	-0.429710077	0.35984468
ENSG00000120675	DNAJC15	3346.284834	-0.429716634	0.104989881
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ENSG00000198742	SMURF1	2948.305809	-0.430236657	0.042316526
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ENSG00000184634	MED12	2355.257404	-0.430946492	0.08233514
ENSG00000152795	HNRNPDL	5696.135484	-0.431010579	0.045713764
ENSG00000116977	LGALS8	3032.774442	-0.431071965	0.131250083
ENSG00000267344	AC003070.1	6.369244471	-0.431144771	0.81414161
ENSG00000029363	BCLAF1	3924.574319	-0.431190577	0.076640602
ENSG00000186866	POFUT2	348.0471488	-0.431202942	0.153529889
ENSG00000198618	PPIAP22	1890.369236	-0.431216345	0.048765546
ENSG00000100911	PSME2	2060.205022	-0.431234894	0.04637653
ENSG00000234741	GAS5	3758.287546	-0.431572719	0.056491296
ENSG00000121310	ECHDC2	490.1651087	-0.431937092	0.087559315
ENSG00000188419	CHM	660.4900698	-0.431952442	0.081820694
ENSG00000186862	PDZD7	35.76206409	-0.432094351	0.565997974
ENSG00000204120	GIGYF2	3189.90956	-0.432256254	0.084999845
ENSG00000268531	AC060814.3	4.28737692	-0.43230848	0.834510129
ENSG00000140993	TIGD7	6.580590884	-0.432861593	0.802409907
ENSG00000164087	POC1A	1037.579895	-0.432888273	0.085329927
ENSG00000109084	TMEM97	2211.02942	-0.432919592	0.112868628
ENSG00000100417	PMM1	1246.032987	-0.432923398	0.111585528
ENSG00000106346	USP42	1079.283902	-0.433398586	0.151231871
ENSG00000146085	MMUT	808.360741	-0.433736113	0.101453636
ENSG00000149930	TAOK2	2363.671067	-0.433794699	0.145145487
ENSG00000093183	SEC22C	405.9480674	-0.433940692	0.090020681

ENSG00000132026	RTBDN	11.91255881	-0.434052818	0.736414555
ENSG00000271893	AC064834.1	31.73372573	-0.434224421	0.545766484
ENSG00000253313	C1orf210	321.1024581	-0.434299211	0.214815831
ENSG00000086200	IPO11	1009.199471	-0.434315924	0.06027289
ENSG00000140598	EFL1	1063.810986	-0.434575083	0.077731053
ENSG00000169490	TM2D2	1018.83359	-0.434691141	0.065198146
ENSG00000274204	AL138689.1	5.350630665	-0.434917476	0.839326098
ENSG00000208772	SNORD94	6.7176201	-0.434918818	0.814069852
ENSG00000180914	OXTR	25.62661668	-0.434980627	0.710885695
ENSG00000089091	DZANK1	19.7540616	-0.434999453	0.725110786
ENSG00000197429	IPP	179.3173798	-0.435193691	0.292578524
ENSG00000005436	GCFC2	281.7473549	-0.435257648	0.21977689
ENSG00000042753	AP2S1	5704.967834	-0.435359294	0.047694843
ENSG00000078668	VDAC3	1871.396337	-0.435397075	0.089282452
ENSG00000152348	ATG10	174.2921123	-0.435406926	0.213515899
ENSG00000106355	LSM5	594.2746031	-0.435419743	0.228502377
ENSG00000111530	CAND1	5640.967151	-0.435545035	0.038199255
ENSG00000136231	IGF2BP3	3063.438919	-0.435830449	0.059845046
ENSG00000067704	IARS2	4962.269722	-0.435969839	0.072229833
ENSG00000150768	DLAT	2001.816259	-0.436189506	0.042162489
ENSG00000101846	STS	20416.72285	-0.436229897	0.148984419
ENSG00000163002	NUP35	551.0131205	-0.43646751	0.114007736
ENSG00000213614	HEXA	203.2282006	-0.437043968	0.144230323
ENSG00000188368	PRR19	11.99361638	-0.437387226	0.733303385

ENSG00000189058	APOD	6.486334192	-0.437441333	0.829738333
ENSG00000100888	CHD8	3349.069926	-0.437444368	0.078934041
ENSG00000001617	SEMA3F	84.76037957	-0.43759682	0.469834487
ENSG00000129521	EGLN3	780.3155783	-0.437617333	0.144639806
ENSG00000089280	FUS	8183.758342	-0.437622237	0.085204512
ENSG00000054967	RELT	1237.926641	-0.437726537	0.268146053
ENSG00000129691	ASH2L	1652.814482	-0.437875072	0.086798395
ENSG00000255909	PDCD5P1	4.771069245	-0.438279408	0.84357556
ENSG00000185619	PCGF3	650.8344993	-0.438347247	0.122949767
ENSG00000133597	ADCK2	1985.73503	-0.438457787	0.106333759
ENSG00000206053	JPT2	11888.65859	-0.438571432	0.069544588
ENSG00000109606	DHX15	7684.732702	-0.438991006	0.055170876
ENSG00000037474	NSUN2	2277.58062	-0.438991521	0.167480299
ENSG00000250510	GPR162	6.124335567	-0.439329893	0.836068153
ENSG00000119508	NR4A3	981.8393464	-0.439534355	0.285107865
ENSG00000172175	MALT1	720.0827861	-0.439536718	0.233124269
ENSG00000173726	TOMM20	5562.722751	-0.439609923	0.035272485
ENSG00000186517	ARHGAP30	110.8165247	-0.439689422	0.358382906
ENSG00000177932	ZNF354C	38.9070111	-0.439805505	0.517414916
ENSG00000128965	CHAC1	2036.518293	-0.439858603	0.654978573
ENSG00000139648	KRT71	4.964262846	-0.439896907	0.812279787
ENSG00000214485	RPL7P1	126.6328028	-0.440213306	0.296908747
ENSG00000196839	ADA	396.7870955	-0.440259932	0.164465496
ENSG00000197586	ENTPD6	1992.74173	-0.440465452	0.036910161

ENSG00000147234	FRMPD3	4.454255338	-0.4404757	0.857026097
ENSG00000111707	SUDS3	1859.75502	-0.440594239	0.049362779
ENSG00000241058	NSUN6	91.67987965	-0.440662359	0.280037852
ENSG00000196911	KPNA5	159.1698298	-0.440792613	0.315103315
ENSG00000225285	LINC01770	13.77142686	-0.440812816	0.693693454
ENSG00000140553	UNC45A	2110.064159	-0.441047638	0.047195134
ENSG00000185238	PRMT3	461.0196195	-0.441099776	0.107454117
ENSG00000157450	RNF111	2751.073263	-0.441177827	0.077743874
ENSG00000085433	WDR47	393.4373539	-0.441264825	0.104139764
ENSG00000075240	GRAMD4	976.9691652	-0.442124956	0.327126398
ENSG00000184584	TMEM173	9.918208441	-0.442197129	0.741896057
ENSG00000167880	EVPL	36.2882366	-0.442322859	0.596622155
ENSG00000152683	SLC30A6	1223.390879	-0.442390651	0.056480969
ENSG00000188229	TUBB4B	12022.93152	-0.442398667	0.190944295
ENSG00000128510	CPA4	96.89704377	-0.442581145	0.411649749
ENSG00000072657	TRHDE	4.182943337	-0.44322176	0.855093696
ENSG00000139437	TCHP	537.717576	-0.443448166	0.062778701
ENSG00000156671	SAMD8	3474.977843	-0.443589026	0.083738618
ENSG00000175984	DENND2C	6.343234381	-0.443618771	0.849189252
ENSG00000125885	MCM8	170.1820102	-0.443768843	0.180048586
ENSG00000122042	UBL3	829.6984942	-0.443775578	0.046972499
ENSG00000156009	MAGEA8	147.2791613	-0.44402937	0.331611401
ENSG00000132635	PCED1A	310.1077222	-0.444033504	0.174279269
ENSG00000134644	PUM1	4128.29681	-0.4443691	0.114558772

ENSG00000223803	RPS20P14	4.696752048	-0.4452826	0.836251349
ENSG00000102098	SCML2	69.816539	-0.445403047	0.376399511
ENSG00000134440	NARS	10159.44516	-0.445566736	0.031894084
ENSG00000147604	RPL7	31222.81549	-0.445590001	0.012406784
ENSG00000006634	DBF4	831.1783631	-0.445866687	0.067403475
ENSG00000172382	PRSS27	53.79621148	-0.446003096	0.649774169
ENSG00000122643	NT5C3A	506.5010964	-0.446221866	0.10745784
ENSG00000112964	GHR	85.46793931	-0.446343556	0.501035103
ENSG00000178741	COX5A	4553.585953	-0.44638023	0.063908922
ENSG00000054392	HHAT	194.7524559	-0.446426395	0.249489167
ENSG00000237821	AC083873.1	6.110074383	-0.446585858	0.821044273
ENSG00000100385	IL2RB	861.7141605	-0.446667252	0.212674441
ENSG00000174080	CTSF	223.3843955	-0.446720914	0.285705784
ENSG00000117543	DPH5	359.7572474	-0.446742645	0.209107986
ENSG00000141510	TP53	1113.218723	-0.446857808	0.067253209
ENSG00000180769	WDFY3-AS2	30.7174232	-0.446921242	0.577880878
ENSG00000160961	ZNF333	64.94014695	-0.4470271	0.369788547
ENSG00000116729	WLS	9923.164366	-0.447243995	0.062969638
ENSG00000196172	ZNF681	163.8748129	-0.447253993	0.232408551
ENSG00000226564	FTH1P20	30.13849997	-0.447298149	0.561990151
ENSG00000088808	PPP1R13B	264.7911799	-0.447438096	0.147642202
ENSG00000129351	ILF3	9161.159655	-0.447460558	0.094098262
ENSG00000137814	HAUS2	664.4825252	-0.447593893	0.168471015
ENSG00000145388	METTL14	605.6036348	-0.447812153	0.071996101

ENSG00000267149	AC011476.2	6.940889736	-0.448057601	0.796318541
ENSG00000176945	MUC20	5.889615649	-0.448267257	0.795492135
ENSG00000135002	RFK	1251.311195	-0.448394929	0.186821618
ENSG00000156504	FAM122B	716.9459827	-0.448412714	0.105846867
ENSG00000105948	TTC26	55.61046162	-0.448532914	0.449774762
ENSG00000104112	SCG3	11.1244028	-0.448559968	0.702134133
ENSG00000165898	ISCA2	97.85130034	-0.448581223	0.334661183
ENSG00000100599	RIN3	3347.602443	-0.448611424	0.038384396
ENSG00000276710	CSPG4P10	18.64867938	-0.448671974	0.687034893
ENSG00000112378	PERP	9003.20924	-0.448726815	0.084184389
ENSG00000087302	RTRAF	2813.395039	-0.449093253	0.026580308
ENSG00000230533	AL356234.2	5.109432609	-0.449134757	0.82588734
ENSG00000164031	DNAJB14	733.6777924	-0.449305218	0.094103813
ENSG00000228057	SEC63P1	7.458256418	-0.449383037	0.775806543
ENSG00000119714	GPR68	33.60021528	-0.449465804	0.611625904
ENSG00000168350	DEGS2	266.0638145	-0.449763853	0.39643852
ENSG00000164924	YWHAZ	34915.3783	-0.449805264	0.012806204
ENSG00000144827	ABHD10	542.8401622	-0.450029528	0.089130279
ENSG00000123836	PFKFB2	663.7191907	-0.450341122	0.157539972
ENSG00000088247	KHSRP	6465.058711	-0.450378977	0.051849758
ENSG00000178078	STAP2	208.9941468	-0.450404445	0.226494914
ENSG00000122779	TRIM24	3620.851915	-0.450430537	0.099366468
ENSG00000176390	CRLF3	1601.876823	-0.450455034	0.056032607
ENSG00000183199	HSP90AB3P	16.8137343	-0.450793075	0.718883106

ENSG00000143816	WNT9A	41.36671212	-0.450838457	0.543592125
ENSG00000120334	CENPL	305.2513376	-0.451020189	0.128583123
ENSG00000163956	LRPAP1	9527.575625	-0.45107393	0.038160441
ENSG00000137055	PLAA	2715.762519	-0.451151973	0.023868524
ENSG00000175203	DCTN2	3328.776031	-0.45163159	0.021444783
ENSG00000178038	ALS2CL	305.124017	-0.451734363	0.398400188
ENSG00000155744	FAM126B	609.1957973	-0.451992827	0.149034252
ENSG00000008869	HEATR5B	1930.495556	-0.452071757	0.042692135
ENSG00000104880	ARHGEF18	590.5275658	-0.452098505	0.069189077
ENSG00000128185	DGCR6L	267.0196889	-0.45241048	0.130622271
ENSG00000277938	AL035252.3	10.70665397	-0.452445699	0.766155626
ENSG00000175106	TVP23C	54.53688453	-0.452605515	0.375670189
ENSG00000184307	ZDHHC23	51.64966419	-0.452705494	0.41084059
ENSG00000263711	AC079062.1	780.0340066	-0.452845058	0.045182404
ENSG00000134030	CTIF	221.1641229	-0.452877316	0.205132332
ENSG00000151458	ANKRD50	238.2649298	-0.453177479	0.219682564
ENSG00000230555	AL450326.1	7.555583365	-0.45318581	0.818704941
ENSG00000227885	AL590652.1	23.3089128	-0.453621907	0.642486014
ENSG00000170367	CST5	8.139124258	-0.453661327	0.788561423
ENSG00000118194	TNNT2	10.13764051	-0.453722412	0.787474209
ENSG00000198130	HIBCH	336.2023564	-0.454288592	0.098658499
ENSG00000125149	C16orf70	1335.207333	-0.45433285	0.08686395
ENSG00000259015	AL442663.4	13.47656789	-0.454419904	0.713850537
ENSG00000173442	EHBP1L1	628.4821015	-0.454473692	0.143577807

ENSG00000287737	AC132872.5	5.654895731	-0.454757278	0.818728944
ENSG00000214176	PLEKHM1P1	247.5541667	-0.454778853	0.162023727
ENSG00000116663	FBXO6	107.0520375	-0.455463288	0.326060853
ENSG00000102048	ASB9	6.323874267	-0.455715049	0.84853765
ENSG00000197170	PSMD12	3059.495342	-0.455842491	0.120736991
ENSG00000078814	MYH7B	13.43717999	-0.455944507	0.722681038
ENSG00000204520	MICA	6.831652625	-0.455948064	0.780367913
ENSG00000165804	ZNF219	166.8221591	-0.456111193	0.378096935
ENSG00000131323	TRAF3	424.3935248	-0.456143617	0.205253074
ENSG00000151552	QDPR	333.3172944	-0.456171557	0.08215129
ENSG00000248290	TNXA	12.92005227	-0.456332476	0.712194146
ENSG00000213062	Z99572.1	40.91970467	-0.45637472	0.508853531
ENSG00000230359	TPI1P2	8.14274475	-0.456418835	0.759356624
ENSG00000168538	TRAPPC11	1510.318425	-0.456563821	0.10771689
ENSG00000132204	LINC00470	146.3105346	-0.45659204	0.266378459
ENSG00000175792	RUVBL1	1261.506879	-0.456749122	0.053451464
ENSG00000184368	MAP7D2	387.7547057	-0.456935383	0.194796861
ENSG00000099910	KLHL22	369.0241773	-0.457120055	0.209602788
ENSG00000005812	FBXL3	1072.650549	-0.457536751	0.051609965
ENSG00000154188	ANGPT1	129.8793115	-0.457703482	0.293149688
ENSG00000167723	TRPV3	437.9589142	-0.457854237	0.150259773
ENSG00000226803	ZNF451-AS1	7.371692487	-0.457921128	0.818855465
ENSG00000197056	ZMYM1	288.2941836	-0.458355668	0.143187892
ENSG00000196878	LAMB3	347.6059363	-0.458521701	0.274621816

ENSG00000173372	C1QA	27.46551854	-0.458585994	0.625037465
ENSG00000145569	OTULINL	6.051600183	-0.458960985	0.790240841
ENSG00000239653	PSMD6-AS2	139.4804445	-0.459002029	0.288310472
ENSG00000105926	MPP6	96.08787344	-0.459197161	0.310485883
ENSG00000274487	AC244154.1	182.027343	-0.459365866	0.19199815
ENSG00000153814	JAZF1	10.16345116	-0.459459559	0.756085189
ENSG00000173230	GOLGB1	5374.339146	-0.459694811	0.09682636
ENSG00000265806	MIR4292	5.178572653	-0.45979833	0.836039574
ENSG00000138769	CDKL2	6.861090089	-0.459972903	0.808682659
ENSG00000145214	DGKQ	390.6577083	-0.460048593	0.280435893
ENSG00000115257	PCSK4	17.37450378	-0.460184184	0.689434039
ENSG00000076826	CAMSAP3	344.8973211	-0.460228126	0.199448205
ENSG00000167889	MGAT5B	45.71690498	-0.460405968	0.512654772
ENSG00000123908	AGO2	2234.457332	-0.460434174	0.21663855
ENSG00000153395	LPCAT1	4344.426115	-0.460525078	0.079304017
ENSG00000109680	TBC1D19	34.53768696	-0.460785719	0.525901999
ENSG00000198947	DMD	576.6960134	-0.460852587	0.154755329
ENSG00000225808	DNAJC19P5	3.143604674	-0.46088611	0.893837338
ENSG00000075303	SLC25A40	246.0906236	-0.46097001	0.217844051
ENSG00000163283	ALPP	53.1772692	-0.461111994	0.629647999
ENSG00000185924	RTN4RL1	12.11098348	-0.461421709	0.725313842
ENSG00000136731	UGGT1	8505.519564	-0.461536134	0.099077953
ENSG00000161980	POLR3K	508.8898968	-0.461686246	0.123225348
ENSG00000095787	WAC	6223.77954	-0.461688063	0.080241882

ENSG00000076067	RBMS2	5649.931833	-0.461952503	0.173259112
ENSG00000132321	IQCA1	15.88773653	-0.462072256	0.746641429
ENSG00000134146	DPH6	112.388747	-0.462241943	0.243724151
ENSG00000154328	NEIL2	88.93237673	-0.462567729	0.331337159
ENSG00000179119	SPTY2D1	2332.08003	-0.46289242	0.104968004
ENSG00000091009	RBM27	415.9396267	-0.463125312	0.05387835
ENSG00000227006	AL136988.2	8.954726036	-0.463615237	0.735787789
ENSG00000112357	PEX7	206.8639378	-0.463693742	0.213255258
ENSG00000176623	RMDN1	360.0592479	-0.463696335	0.103384973
ENSG00000260804	LINC01963	12.66151487	-0.463778128	0.721240244
ENSG00000162849	KIF26B	10.68898448	-0.464169791	0.738147768
ENSG00000151012	SLC7A11	474.1981921	-0.464442511	0.248882795
ENSG00000061987	MON2	2633.797636	-0.464708155	0.091547281
ENSG00000084070	SMAP2	460.2080725	-0.465070054	0.068555722
ENSG00000130962	PRRG1	705.576236	-0.465348905	0.201260363
ENSG00000149231	CCDC82	346.6597241	-0.465392377	0.13154758
ENSG00000154447	SH3RF1	675.5287104	-0.465706984	0.056729678
ENSG00000153140	CETN3	339.2146689	-0.465711486	0.269575756
ENSG00000120784	ZFP30	73.32182075	-0.465874096	0.416152268
ENSG00000087157	PGS1	580.8806968	-0.465967501	0.123015138
ENSG00000132967	HMGB1P5	128.6704139	-0.466200136	0.238747167
ENSG00000164070	HSPA4L	1500.874894	-0.466517135	0.100303944
ENSG00000163539	CLASP2	1652.852124	-0.466563683	0.041640724
ENSG00000125534	PPDPF	1158.939201	-0.46669641	0.204000366

ENSG00000254389	RHPN1-AS1	8.971621472	-0.467019515	0.748364277
ENSG00000115239	ASB3	1360.723635	-0.46722684	0.021226848
ENSG00000206869	SNORA70F	4.749429977	-0.46741592	0.79899734
ENSG00000070814	TCOF1	3171.568514	-0.467605946	0.036133461
ENSG00000171451	DSEL	248.4825945	-0.467627391	0.337290917
ENSG00000203791	EEF1AKMT2	55.2245031	-0.46781283	0.377885719
ENSG00000112339	HBS1L	2507.318664	-0.467943038	0.028446349
ENSG00000118939	UCHL3	54.36360772	-0.468026809	0.387507899
ENSG00000077254	USP33	1669.949422	-0.4680437	0.245426521
ENSG00000067225	PKM	27206.02016	-0.468174662	0.012931831
ENSG00000158290	CUL4B	2426.635747	-0.468237374	0.107088678
ENSG00000144857	BOC	5.617056033	-0.468324722	0.816328391
ENSG00000134444	RELCH	1202.133991	-0.468336204	0.034825741
ENSG00000121068	TBX2	213.4899211	-0.46864313	0.524271752
ENSG00000153015	CWC27	629.0933041	-0.468837369	0.047171587
ENSG00000157823	AP3S2	243.1166043	-0.468839803	0.208555343
ENSG00000259376	AC090907.1	9.37018358	-0.468898957	0.714979398
ENSG00000086758	HUWE1	13603.622	-0.468967747	0.199705246
ENSG00000207547	MIR25	54.83999457	-0.468978119	0.533914597
ENSG00000255423	EBLN2	22.66310282	-0.469116214	0.622303312
ENSG00000259033	AL356804.1	9.180791181	-0.469152358	0.740788403
ENSG00000121774	KHDRBS1	3749.321883	-0.469324613	0.022116807
ENSG00000176986	SEC24C	4062.026601	-0.469372608	0.139061563
ENSG00000166068	SPRED1	10.56115162	-0.469635421	0.702273183

ENSG00000100764	PSMC1	3983.793897	-0.469648957	0.032317886
ENSG00000179240	GVQW3	19.47252392	-0.469917462	0.659272032
ENSG00000261609	GAN	1259.829018	-0.469986109	0.120736991
ENSG00000092201	SUPT16H	4776.588243	-0.470030081	0.027528283
ENSG00000117676	RPS6KA1	1663.043237	-0.470050031	0.03943769
ENSG00000188647	PTAR1	456.5862186	-0.470245472	0.168745415
ENSG00000228492	RAB11FIP1P1	12.0653849	-0.470302055	0.722518583
ENSG00000136738	STAM	1183.235907	-0.470309391	0.061075853
ENSG00000166289	PLEKHF1	1768.585221	-0.470347456	0.030229472
ENSG00000114491	UMPS	3034.646582	-0.47039676	0.049628382
ENSG00000173744	AGFG1	7010.800592	-0.470436929	0.037270009
ENSG00000184984	CHRM5	41.10318977	-0.47061774	0.485215799
ENSG00000163701	IL17RE	111.6949313	-0.470759235	0.26941076
ENSG00000100297	MCM5	5583.961789	-0.471023374	0.042926225
ENSG00000119321	FKBP15	1212.170738	-0.471113941	0.02896959
ENSG00000146540	C7orf50	951.5185899	-0.471279845	0.079506858
ENSG00000120594	PLXDC2	71.96462663	-0.47137451	0.385787911
ENSG00000172818	OVOL1	7510.033119	-0.471552259	0.278872407
ENSG00000140326	CDAN1	443.5736115	-0.471588831	0.094553928
ENSG00000175741	RWDD4P2	63.15383313	-0.471719474	0.356569237
ENSG00000052126	PLEKHA5	716.8549486	-0.471735411	0.060610847
ENSG00000154767	XPC	783.7038459	-0.472008498	0.092695758
ENSG00000207741	MIR590	7.137032265	-0.472290206	0.792927496
ENSG00000147251	DOCK11	621.3609081	-0.472391196	0.158985814

ENSG00000121104	FAM117A	169.7561675	-0.472647275	0.349582431
ENSG00000109046	WSB1	6820.826986	-0.472761849	0.081132797
ENSG00000131055	COX4I2	11.02938958	-0.472789624	0.731681411
ENSG00000147180	ZNF711	3.03759904	-0.473034921	0.858199602
ENSG00000197183	NOL4L	72.72345379	-0.473065099	0.412179632
ENSG00000143748	NVL	691.7611627	-0.473325059	0.110945301
ENSG00000041982	TNC	10.86782654	-0.473379381	0.728971367
ENSG00000032389	EIPR1	812.3154431	-0.473438276	0.029599123
ENSG00000186326	RGS9BP	4.225568757	-0.473462293	0.845615609
ENSG00000186496	ZNF396	13.03090027	-0.473573089	0.749085215
ENSG00000278917	AC006213.6	13.35026738	-0.473621142	0.660057712
ENSG00000258986	TMEM179	7.643391063	-0.473722486	0.788561423
ENSG00000126603	GLIS2	376.2793069	-0.473822725	0.08686395
ENSG00000047578	KIAA0556	384.5803484	-0.473842244	0.094718872
ENSG00000105538	RASIP1	5.15378928	-0.47389688	0.828527367
ENSG00000158987	RAPGEF6	145.7761565	-0.474137233	0.22572305
ENSG00000158195	WASF2	6591.079254	-0.474153984	0.325768734
ENSG00000137692	DCUN1D5	864.7119438	-0.474221091	0.03161151
ENSG00000133710	SPINK5	18.89945614	-0.474354199	0.606643788
ENSG00000198816	ZNF358	33.72246361	-0.47469699	0.472653008
ENSG00000147649	MTDH	1028.75196	-0.475174503	0.125676438
ENSG00000142303	ADAMTS10	3.04791629	-0.475206763	0.873102126
ENSG00000174099	MSRB3	4.368668569	-0.475222021	0.84163704
ENSG00000101544	ADNP2	992.0232758	-0.475471845	0.051986874

ENSG00000101310	SEC23B	7175.333965	-0.475654317	0.012088322
ENSG00000165501	LRR1	205.7764762	-0.476069375	0.326969557
ENSG00000188153	COL4A5	694.3318743	-0.47610223	0.05298185
ENSG00000110713	NUP98	4865.134845	-0.476120093	0.024358037
ENSG00000264049	MIR4737	8.164735667	-0.476146831	0.807883105
ENSG00000163393	SLC22A15	38.80423237	-0.476462838	0.521334663
ENSG00000113594	LIFR	13353.68865	-0.476760957	0.257131017
ENSG00000173588	CEP83	123.4711236	-0.476781019	0.229348657
ENSG00000161082	CELF5	16.11579773	-0.476818538	0.721240244
ENSG00000231721	LINC-PINT	8.994400086	-0.476845287	0.721240244
ENSG00000185347	TEDC1	285.0863541	-0.47709202	0.139557794
ENSG00000170684	ZNF296	7.653708314	-0.477121126	0.801859137
ENSG00000264350	SNRPGP2	155.3279366	-0.47719647	0.156019407
ENSG00000151276	MAGI1	1710.74032	-0.47725211	0.070206193
ENSG00000156345	CDK20	41.99367495	-0.477334362	0.539310334
ENSG00000167642	SPINT2	3774.585429	-0.477425616	0.041636915
ENSG00000287530	AL445985.2	32.88206931	-0.477528071	0.519430568
ENSG00000189229	AC069277.1	18.81730977	-0.477616491	0.600706294
ENSG00000100490	CDKL1	22.98672384	-0.477965802	0.569110953
ENSG00000111011	RSRC2	2456.676419	-0.47801882	0.025282734
ENSG00000095485	CWF19L1	570.5583009	-0.478127391	0.044810616
ENSG00000174799	CEP135	191.8945274	-0.478280076	0.190944295
ENSG00000103018	CYB5B	1551.991584	-0.478320522	0.022009026
ENSG00000173638	SLC19A1	7133.292054	-0.47872275	0.039262973

ENSG00000079691	CARMIL1	491.3652166	-0.478760474	0.142485016
ENSG00000087903	RFX2	173.8652209	-0.478906274	0.121616522
ENSG00000140836	ZFHX3	4597.832495	-0.479052218	0.086889181
ENSG00000157542	KCNJ6	3.961859161	-0.479123382	0.837501147
ENSG00000021300	PLEKHB1	22.27670169	-0.479247339	0.566073609
ENSG00000118271	TTR	48.29279755	-0.479786459	0.494849628
ENSG00000213621	RPSAP54	20.00914283	-0.479873835	0.567755885
ENSG00000272717	AC112236.2	7.004283622	-0.479889937	0.790115455
ENSG00000112096	SOD2	614.5524256	-0.480014095	0.048443689
ENSG00000126215	XRCC3	364.224371	-0.480018036	0.111936754
ENSG00000245112	SMARCA5-AS1	10.87376952	-0.48030052	0.688195517
ENSG00000106012	IQCE	229.3516326	-0.480418834	0.260463998
ENSG00000183647	ZNF530	262.4030222	-0.480630858	0.180005281
ENSG00000151366	NDUFC2	252.7471623	-0.480690338	0.103595622
ENSG00000267374	MIR924HG	16.40645818	-0.482004505	0.686832638
ENSG00000014919	COX15	375.5480426	-0.482117131	0.106859403
ENSG00000280279	AC240565.2	4.517396686	-0.482402734	0.830157418
ENSG00000135749	PCNX2	47.30972765	-0.482423487	0.423232521
ENSG00000076554	TPD52	3890.4548	-0.482632666	0.186371944
ENSG00000164209	SLC25A46	283.8512293	-0.482657426	0.272216127
ENSG00000125107	CNOT1	8396.058886	-0.482716153	0.098487473
ENSG00000159714	ZDHHC1	81.69162111	-0.482862392	0.30410173
ENSG00000133065	SLC41A1	660.447438	-0.482931655	0.102113711
ENSG00000105929	ATP6V0A4	722.4210391	-0.483003627	0.228764036

ENSG00000168488	ATXN2L	12292.11439	-0.483043266	0.033576463
ENSG00000173894	CBX2	191.3084913	-0.48313217	0.171991561
ENSG00000205628	LINC01446	45.17386623	-0.483486738	0.445139317
ENSG00000204682	MIR1915HG	48.38027606	-0.483617652	0.432453277
ENSG00000103657	HERC1	1695.030281	-0.483707675	0.231784555
ENSG00000123636	BAZ2B	900.4870439	-0.48386125	0.098847543
ENSG00000170234	PWWP2A	227.7081266	-0.484614338	0.099971317
ENSG00000249740	OSMR-AS1	26.61699128	-0.485501431	0.613463271
ENSG00000104714	ERICH1	898.4178337	-0.485520423	0.050709183
ENSG00000142892	PIGK	816.9041009	-0.485833817	0.065488712
ENSG00000104093	DMXL2	2232.268342	-0.486058901	0.173666742
ENSG00000064933	PMS1	201.4741388	-0.486368416	0.163446902
ENSG00000105048	TNNT1	58.42267776	-0.486386996	0.517077007
ENSG00000186814	ZSCAN30	60.97931127	-0.486909114	0.457467938
ENSG00000258682	AL132989.1	5.977559822	-0.487042446	0.780240278
ENSG00000093009	CDC45	1242.470873	-0.487228603	0.083636827
ENSG00000239213	NCK1-DT	40.75586822	-0.487274795	0.49716319
ENSG00000075223	SEMA3C	28.59914574	-0.487328323	0.621657166
ENSG00000259982	CDC37P1	20.79027248	-0.487455151	0.571205151
ENSG00000174498	IGDCC3	34.02401781	-0.487690836	0.485106644
ENSG00000177464	GPR4	35.7480422	-0.488380715	0.643531655
ENSG00000162402	USP24	2130.323646	-0.488387992	0.078285904
ENSG00000176124	DLEU1	65.63847815	-0.488435661	0.324459166
ENSG00000054654	SYNE2	7857.370381	-0.488580197	0.133892537

ENSG00000186073	C15orf41	180.0166694	-0.488747213	0.18645043
ENSG00000116205	TCEANC2	154.6716887	-0.488807469	0.187804743
ENSG00000094880	CDC23	1940.963219	-0.488847449	0.011474158
ENSG00000228817	BACH1-IT2	3.053289545	-0.489061626	0.872982366
ENSG00000204815	TTC25	16.80457594	-0.489242074	0.644123988
ENSG00000188878	FBF1	169.1855795	-0.489286457	0.164875776
ENSG00000073578	SDHA	339.1486611	-0.489362452	0.050709183
ENSG00000145293	ENOPH1	1538.894148	-0.489580604	0.034378667
ENSG00000118508	RAB32	40.00654413	-0.489582545	0.527687307
ENSG00000142619	PADI3	2.922860408	-0.489590209	0.853393258
ENSG00000025708	TYMP	49.55567208	-0.489655082	0.39192462
ENSG00000165555	NOXRED1	4.719702607	-0.489750865	0.810802966
ENSG00000143924	EML4	2471.001713	-0.490423903	0.04734286
ENSG00000102743	SLC25A15	187.5056354	-0.490522538	0.202330716
ENSG00000105738	SIPA1L3	273.459517	-0.490656782	0.132286572
ENSG00000121898	CPXM2	4.246146822	-0.490685904	0.849732738
ENSG00000148429	USP6NL	698.96903	-0.490692783	0.125489099
ENSG00000286724	AL732509.1	6.387563447	-0.490792481	0.746656825
ENSG00000160957	RECQL4	1275.22738	-0.4911676	0.021711141
ENSG00000128973	CLN6	662.6680843	-0.491182091	0.047721331
ENSG00000250903	GMDS-DT	14.67876346	-0.491596179	0.687407866
ENSG00000005022	SLC25A5	11586.33002	-0.49161022	0.025182249
ENSG00000172037	LAMB2	1188.250994	-0.491702943	0.026663793
ENSG00000213740	SERBP1P1	14.66345616	-0.491730762	0.646131153

ENSG00000104361	NIPAL2	7.467774766	-0.491858148	0.75867483
ENSG00000103534	TMC5	480.9277394	-0.491861796	0.030085861
ENSG00000130560	UBAC1	835.791299	-0.492074303	0.033805502
ENSG00000143786	CNIH3	18.3770816	-0.492085196	0.664722605
ENSG00000278864	AC055811.4	38.02670687	-0.492326297	0.489883349
ENSG00000167232	ZNF91	489.8390085	-0.492339662	0.092177557
ENSG00000177989	ODF3B	11.53135022	-0.492467978	0.705361738
ENSG00000178700	DHFR2	11.4335594	-0.492526794	0.711975166
ENSG00000226421	SLC25A5P5	11.9973036	-0.492609529	0.677930456
ENSG00000214617	SLC6A10P	65.99499153	-0.492638042	0.429177176
ENSG00000196072	BLOC1S2	665.8277799	-0.49281074	0.084475887
ENSG00000204103	MAFB	9.880808378	-0.492818691	0.722681038
ENSG00000047621	C12orf4	381.9749995	-0.493155099	0.185404946
ENSG00000080824	HSP90AA1	42154.72392	-0.493169836	0.055366158
ENSG00000224616	RTCA-AS1	10.12089523	-0.493212289	0.706482951
ENSG00000183723	CMTM4	1280.663404	-0.493233469	0.123015138
ENSG00000138032	PPM1B	6011.181727	-0.493356973	0.020474523
ENSG00000133731	IMPA1	84.78898728	-0.493386316	0.337331729
ENSG00000161860	SYCE2	10.04494617	-0.493459641	0.757697698
ENSG00000144228	SPOPL	773.8040532	-0.493476936	0.070662862
ENSG00000248019	FAM13A-AS1	41.77408283	-0.493836974	0.439084881
ENSG00000001461	NIPAL3	676.984111	-0.494223883	0.033110589
ENSG00000163162	RNF149	3505.676151	-0.494594308	0.02984153
ENSG00000081665	ZNF506	248.2172308	-0.494623269	0.125252515

ENSG00000138698	RAP1GDS1	548.8811796	-0.494660012	0.073706872
ENSG00000092445	TYRO3	24689.78081	-0.494696061	0.066461413
ENSG00000116198	CEP104	571.3422978	-0.494715205	0.105263615
ENSG00000133131	MORC4	6274.447169	-0.49478302	0.016800326
ENSG00000122873	CISD1	368.4856924	-0.494865877	0.086889181
ENSG00000214954	LRRC69	6.477671198	-0.495141159	0.763945529
ENSG00000131100	ATP6V1E1	7749.234152	-0.495818647	0.038143935
ENSG00000125812	GZF1	190.1896858	-0.495865521	0.201058388
ENSG00000244476	ERVFRD-1	18402.79828	-0.496001626	0.095648784
ENSG00000139055	ERP27	285.9695175	-0.496586082	0.238558878
ENSG00000110171	TRIM3	193.7787365	-0.496816974	0.184921183
ENSG00000249129	SUDS3P1	19.76022207	-0.497214403	0.667636848
ENSG00000119725	ZNF410	9.7906821	-0.497389976	0.739122249
ENSG00000171956	FOXB1	40.92627265	-0.497484157	0.480951858
ENSG00000186076	AC012085.1	32.50161779	-0.497526621	0.457756203
ENSG00000224963	U82695.1	30.48192379	-0.497760797	0.669798217
ENSG00000168476	REEP4	1490.745577	-0.497784946	0.097231476
ENSG00000154229	PRKCA	308.7301288	-0.498048404	0.260799697
ENSG00000115760	BIRC6	2862.680394	-0.498121876	0.111027205
ENSG00000147419	CCDC25	408.6135416	-0.498158658	0.069436837
ENSG00000141503	MINK1	7355.303645	-0.498198817	0.05772318
ENSG00000118217	ATF6	5183.856267	-0.498384953	0.00501796
ENSG00000108262	GIT1	682.4745596	-0.498506043	0.052595974
ENSG00000134287	ARF3	5812.791561	-0.498816387	0.012040978

ENSG00000198677	TTC37	1840.935402	-0.498867979	0.055502318
ENSG00000115233	PSMD14	5503.874505	-0.498921124	0.044588804
ENSG00000138623	SEMA7A	23367.65029	-0.498968034	0.060998029
ENSG00000171621	SPSB1	367.041399	-0.498995287	0.1286417
ENSG00000136059	VILL	21.53894921	-0.4994479	0.684456728
ENSG00000197712	FAM114A1	539.7800862	-0.499615285	0.295827926
ENSG00000081181	ARG2	502.6195436	-0.499943553	0.054995908
ENSG00000187824	TMEM220	19.06438083	-0.4999761	0.650202197
ENSG00000148468	FAM171A1	10.55433456	-0.500038003	0.686120066
ENSG00000197646	PDCD1LG2	52.47178638	-0.500074627	0.394048166
ENSG00000006744	ELAC2	1770.230719	-0.50043561	0.060449527
ENSG00000184343	SRPK3	8.219438422	-0.500468178	0.79911376
ENSG00000173846	PLK3	1429.298489	-0.500712385	0.136710252
ENSG00000086827	ZW10	876.2483231	-0.500752675	0.110694756
ENSG00000175886	RPL7AP66	6.409894276	-0.500831308	0.766823515
ENSG00000255458	AC108471.2	9.481482801	-0.500952701	0.728924357
ENSG00000144362	PHOSPHO2	14.44045453	-0.500988817	0.642418419
ENSG00000107874	CUEDC2	627.2754085	-0.50138123	0.114243971
ENSG00000112667	DNPH1	179.9598541	-0.501451308	0.193453448
ENSG00000093217	XYLB	149.0376554	-0.501746305	0.137933473
ENSG00000123575	FAM199X	755.108957	-0.502160396	0.059997909
ENSG00000142173	COL6A2	132.8107738	-0.502253418	0.366649683
ENSG00000268364	SMC5-AS1	3.724157321	-0.502258918	0.853567226
ENSG00000057252	SOAT1	852.8089545	-0.502293306	0.022428053

ENSG00000189195	BTBD8	114.1054741	-0.502608537	0.378956003
ENSG00000135090	TAOK3	750.553178	-0.503263615	0.04734286
ENSG00000159267	HLCS	349.4979791	-0.503383526	0.061932751
ENSG00000267260	AC020928.1	14.72835027	-0.50388491	0.644123988
ENSG00000175147	TMEM51-AS1	10.23421247	-0.504175617	0.798455447
ENSG00000170356	OR2A20P	9.103626641	-0.504178324	0.718883106
ENSG00000177383	MAGEF1	594.215756	-0.504404321	0.083634066
ENSG00000165626	BEND7	312.8966786	-0.504495245	0.141571306
ENSG00000164144	ARFIP1	1291.602347	-0.50449769	0.019561795
ENSG00000090061	CCNK	441.3716175	-0.505174719	0.071230405
ENSG00000157869	RAB28	246.6309012	-0.505363903	0.10482104
ENSG00000137460	FHDC1	20720.76974	-0.505704017	0.037113874
ENSG00000133983	COX16	14.31539864	-0.505705311	0.653241085
ENSG00000198520	ARMH1	3.404656787	-0.505839911	0.85760896
ENSG00000146904	EPHA1	550.2948153	-0.506138389	0.120527641
ENSG00000131016	AKAP12	404.6266397	-0.506302235	0.086598669
ENSG00000140350	ANP32A	2954.15795	-0.506344634	0.079329812
ENSG00000153339	TRAPPC8	2419.791656	-0.506571052	0.02772962
ENSG00000185164	NOMO2	2478.338752	-0.506674296	0.120187014
ENSG00000250299	MRPS31P4	4.690155949	-0.506872757	0.793166397
ENSG00000149218	ENDOD1	1661.678886	-0.507006522	0.042856479
ENSG00000254783	AP003084.1	15.68040577	-0.507525161	0.719931202
ENSG00000278867	AC090616.6	4.149813542	-0.507659763	0.829973241
ENSG00000180287	PLD5	19.05432588	-0.507712682	0.651354874

ENSG00000268460	AC006262.1	17.42816292	-0.508286407	0.629647999
ENSG00000006740	ARHGAP44	121.991074	-0.508439748	0.203459194
ENSG00000108479	GALK1	351.743912	-0.508667208	0.268196224
ENSG00000015171	ZMYND11	379.2796267	-0.508770703	0.070040685
ENSG00000249565	SERBP1P5	20.3943364	-0.508790636	0.555341073
ENSG00000204642	HLA-F	12.81462515	-0.509264692	0.686304473
ENSG00000102575	ACP5	689.0912331	-0.509267568	0.128372028
ENSG00000127337	YEATS4	306.003406	-0.509679892	0.088022394
ENSG00000001460	STPG1	90.33615946	-0.509726308	0.219036774
ENSG00000070785	EIF2B3	456.9320728	-0.509927979	0.056926955
ENSG00000106948	AKNA	831.0982159	-0.509974587	0.183424938
ENSG00000196967	ZNF585A	53.32403693	-0.510110868	0.362429431
ENSG00000197933	ZNF823	1180.722122	-0.510120689	0.072012898
ENSG00000160633	SAFB	5005.484265	-0.510332665	0.067761026
ENSG00000172602	RND1	34.29012037	-0.510380902	0.515391264
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ENSG00000140854	KATNB1	379.1858725	-0.510903377	0.049487015
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ENSG00000116337	AMPD2	454.6230893	-0.512520668	0.127163397

ENSG00000172667	ZMAT3	402.4109797	-0.512617049	0.06833375
ENSG00000005810	MYCBP2	1457.220662	-0.513055221	0.172990556
ENSG00000168209	DDIT4	2195.604932	-0.513069903	0.634843803
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ENSG00000196542	SPTSSB	3.366921981	-0.515806841	0.836005787
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ENSG00000236480	PKMP1	3.23388437	-0.516461914	0.842505097
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ENSG00000162396	PARS2	111.3837453	-0.51658151	0.268767912
ENSG00000155729	KCTD18	121.5533476	-0.516673884	0.286656861
ENSG00000159184	HOXB13	7.663160151	-0.516800679	0.730007279
ENSG00000248964	AC131254.1	14.52420177	-0.516865354	0.616458062
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ENSG00000161642	ZNF385A	2650.099232	-0.517115657	0.010978494
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ENSG00000244968	LIFR-AS1	23.55840854	-0.517551967	0.510976253
ENSG00000185379	RAD51D	265.4662663	-0.517583234	0.153057954
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ENSG00000147118	ZNF182	57.86841619	-0.517896921	0.336779495
ENSG00000189091	SF3B3	7156.416583	-0.517924064	0.007381933
ENSG00000258926	AL355916.2	8.453959102	-0.518445311	0.776570782
ENSG00000159423	ALDH4A1	1772.083432	-0.518771546	0.027198351
ENSG00000106624	AEBP1	40.82970575	-0.519389296	0.450184958
ENSG00000154310	TNIK	122.9746876	-0.519578668	0.265238573
ENSG00000248971	KRT8P46	3.23895264	-0.519897071	0.841362585
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ENSG00000135945	REV1	1031.892242	-0.520192596	0.018413736
ENSG00000140577	CRTC3	2610.821525	-0.520261365	0.037461375
ENSG00000106397	PLOD3	1698.041846	-0.520567115	0.011875407
ENSG00000109536	FRG1	651.1026483	-0.521629559	0.015947833
ENSG00000176024	ZNF613	289.9827581	-0.521978178	0.101692193
ENSG00000137094	DNAJB5	750.2122493	-0.522406651	0.346817626
ENSG00000125450	NUP85	2093.977819	-0.522674961	0.031390246
ENSG00000230730	AC074011.1	54.37051422	-0.522870398	0.366649683
ENSG00000172172	MRPL13	808.7598508	-0.522930703	0.013645162
ENSG00000268119	AC010615.2	696.3285963	-0.523169549	0.035804164
ENSG00000155252	PI4K2A	1274.8136	-0.523531383	0.015087272

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ENSG00000058056	USP13	22.53485706	-0.523827415	0.508262545
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ENSG00000263327	TAPT1-AS1	6.621807975	-0.524453774	0.743792106
ENSG00000138356	AOX1	7.702324279	-0.524714171	0.726275514
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ENSG00000137338	PGBD1	114.6556813	-0.525359606	0.191111706
ENSG00000187676	B3GLCT	90.73412821	-0.526042531	0.349703645
ENSG00000159618	ADGRG5	47.88055793	-0.526072878	0.425636824
ENSG00000198793	MTOR	3906.64888	-0.526141228	0.06096064
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ENSG00000162368	CMPK1	2822.301946	-0.526733556	0.045375662
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ENSG00000101752	MIB1	1472.757939	-0.527038517	0.241135593
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ENSG00000183977	PP2D1	5.464645276	-0.527243391	0.764233798
ENSG00000176058	TPRN	644.1033754	-0.52761629	0.179944543
ENSG00000082641	NFE2L1	3918.574936	-0.527855889	0.014446894
ENSG00000223459	TCAF1P1	163.2618944	-0.527865221	0.359499753
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ENSG00000107341	UBE2R2	2058.527324	-0.528449537	0.030081772
ENSG00000185104	FAF1	1841.663344	-0.528453539	0.018567993
ENSG00000196757	ZNF700	536.2834492	-0.52852029	0.046091848
ENSG00000280063	AC012676.5	8.827595035	-0.528627616	0.747307836
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ENSG00000149136	SSRP1	3662.578272	-0.52992091	0.011142182
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ENSG00000184384	MAML2	1014.174136	-0.53055274	0.019369657
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ENSG00000070159	PTPN3	714.5041126	-0.530904347	0.031210886
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ENSG00000213028	AL354983.1	2.972951757	-0.532659305	0.856711028
ENSG00000167680	SEMA6B	99.06864056	-0.53325326	0.372057004
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ENSG00000254681	PKD1P5	52.61844553	-0.533601626	0.296151543
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ENSG00000237276	ANO7L1	5.153883616	-0.537343842	0.801090352
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ENSG00000008735	MAPK8IP2	267.8051668	-0.541385497	0.327052974
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ENSG00000168754	FAM178B	29.60365123	-0.541555283	0.503236214
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ENSG00000183770	FOXL2	4.205278146	-0.54216799	0.812598164
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ENSG00000066735	KIF26A	60.38098322	-0.542654872	0.263531515
ENSG00000147697	GSDMC	2.171654844	-0.54273846	0.901702037
ENSG00000181315	ZNF322	114.5649626	-0.542970544	0.173036498
ENSG00000006025	OSBPL7	70.8009301	-0.543091602	0.259547429
ENSG00000117620	SLC35A3	389.1963503	-0.543242587	0.173374677
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ENSG00000135336	ORC3	1197.997861	-0.543823785	0.012873583
ENSG00000109466	KLHL2	230.0525257	-0.543995707	0.060961319
ENSG00000120008	WDR11	915.0714488	-0.544090214	0.01266636

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ENSG00000111726	CMAS	6190.043266	-0.545098181	0.0336724
ENSG00000180263	FGD6	4301.797092	-0.545312471	0.019061679
ENSG00000100393	EP300	5782.260269	-0.545742301	0.06027289
ENSG00000100731	PCNX1	593.5877529	-0.546186726	0.046471864
ENSG00000176463	SLCO3A1	29.20084402	-0.546558811	0.603062554
ENSG00000197157	SND1	20711.05948	-0.546736276	0.015615202
ENSG00000185222	TCEAL9	4450.178543	-0.546799301	0.002379941
ENSG00000138175	ARL3	410.914741	-0.546829578	0.019885972
ENSG00000182247	UBE2E2	608.4707968	-0.546930057	0.047527895
ENSG00000172061	LRRC15	2950.983647	-0.54745434	0.203495857
ENSG00000215548	FRG1JP	20.80331345	-0.547693519	0.622850669
ENSG00000130559	CAMSAP1	391.6184527	-0.548079984	0.060961319
ENSG00000246308	AC116535.1	14.03902297	-0.548083299	0.652096215
ENSG00000110719	TCIRG1	1656.222944	-0.548302727	0.006687738
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ENSG00000101004	NINL	69.72977497	-0.54847399	0.251206853
ENSG00000106538	RARRES2	8.834497658	-0.548502846	0.74022827
ENSG00000104408	EIF3E	9703.981905	-0.548551147	0.001739414
ENSG00000164830	OXR1	1067.739181	-0.5487373	0.005766351

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ENSG00000067836	ROGDI	328.6037453	-0.549010912	0.08989815
ENSG00000170037	CNTROB	742.1251733	-0.549174588	0.035862607
ENSG00000102753	KPNA3	1322.996268	-0.549335701	0.031109604
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ENSG00000268279	AC090004.1	3.620433826	-0.549407877	0.829813054
ENSG00000130203	APOE	1324.86539	-0.549495262	0.156593325
ENSG00000237522	NONOP2	20.3601966	-0.549672578	0.576554441
ENSG00000242110	AMACR	14.66772036	-0.54983403	0.587574845
ENSG00000223878	PPIAP53	3.935952447	-0.549838907	0.839935451
ENSG00000033030	ZCCHC8	2774.123475	-0.550171448	0.005434583
ENSG00000158691	ZSCAN12	87.74542377	-0.550581564	0.216435086
ENSG00000107625	DDX50	1029.910187	-0.550918244	0.020893872
ENSG00000102786	INTS6	1107.534179	-0.550990926	0.040256367
ENSG00000105568	PPP2R1A	6852.298605	-0.551162096	0.004151381
ENSG00000185340	GAS2L1	209.0168834	-0.551249846	0.072806214
ENSG00000185513	L3MBTL1	89.35031578	-0.551469057	0.184753502
ENSG00000259692	AC104041.1	16.22015725	-0.551673017	0.594835802
ENSG00000103479	RBL2	420.9518328	-0.551760097	0.131762576
ENSG00000165392	WRN	695.6137242	-0.551902662	0.077739267
ENSG00000157992	KRTCAP3	113.4754592	-0.551953318	0.216812205
ENSG00000107560	RAB11FIP2	213.2298097	-0.551974602	0.081851122
ENSG00000027075	PRKCH	6327.900727	-0.552137413	0.018478365
ENSG00000167632	TRAPPC9	656.8927534	-0.552410341	0.154994499

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ENSG00000117114	ADGRL2	969.9550251	-0.552857357	0.017657357
ENSG00000082397	EPB41L3	7099.23943	-0.55307042	0.022185581
ENSG00000106780	MEGF9	267.0997493	-0.553162639	0.134929014
ENSG00000133612	AGAP3	1859.217577	-0.55349287	0.062277585
ENSG00000205084	TMEM231	60.96541194	-0.553800118	0.272404538
ENSG00000116350	SRSF4	3172.520765	-0.55402323	0.040900822
ENSG00000164597	COG5	1237.989425	-0.554275344	0.039415658
ENSG00000162931	TRIM17	22.83390383	-0.554427968	0.550926098
ENSG00000179388	EGR3	85.67898074	-0.554432362	0.217844051
ENSG00000221886	ZBED8	18.6986235	-0.554484623	0.553181137
ENSG00000276045	ORAI1	976.8242682	-0.554503644	0.04045604
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ENSG00000181031	RPH3AL	5.66069745	-0.555870209	0.787123094
ENSG00000169764	UGP2	4945.437146	-0.556436259	0.001283618
ENSG00000135164	DMTF1	1271.922974	-0.556463752	0.027451071
ENSG00000187688	TRPV2	20985.05928	-0.556571045	0.008673358
ENSG00000070718	AP3M2	97.74115662	-0.556753709	0.208996519
ENSG00000170836	PPM1D	3715.626823	-0.556844668	0.060050322
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ENSG00000182264	IZUMO1	2.043759842	-0.559545381	0.887110176
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ENSG00000148339	SLC25A25	2929.660499	-0.560329	0.043061627
ENSG00000203721	LINC00862	115.5341794	-0.56089563	0.12098911
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ENSG00000163625	WDFY3	2042.392944	-0.561162741	0.052481104
ENSG00000239282	CASTOR1	27.35006269	-0.561331002	0.517245646
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ENSG00000152082	MZT2B	126.3834033	-0.561616896	0.133984445
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ENSG00000119655	NPC2	1683.825792	-0.563462002	0.003789403
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ENSG00000205659	LIN52	408.9252433	-0.566234582	0.031298084
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ENSG00000170144	HNRNPA3	10668.51911	-0.56828959	0.003146933
ENSG00000217241	CBX3P9	10.71392352	-0.568748932	0.634071299
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ENSG00000119711	ALDH6A1	429.3888862	-0.596968764	0.264796096
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ENSG00000100034	PPM1F	561.2702164	-0.599004672	0.022668037
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ENSG00000107745	MICU1	783.6978229	-0.599945926	0.010070163
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ENSG00000106605	BLVRA	568.2178528	-0.600629761	0.179892312
ENSG00000116584	ARHGEF2	1619.835261	-0.600651848	0.012908902
ENSG00000119912	IDE	588.4871581	-0.600983184	0.014930334
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ENSG00000229334	AC046143.1	7.258329437	-0.601329494	0.720630648
ENSG00000285420	AC011342.1	7.161805685	-0.601341604	0.700727643
ENSG00000106686	SPATA6L	69.0307622	-0.601644408	0.263997403
ENSG00000151725	CENPU	860.9394034	-0.601668394	0.017531395
ENSG00000068878	PSME4	6089.151576	-0.602059712	0.01203502
ENSG00000146872	TLK2	668.8432407	-0.602120683	0.034372846
ENSG00000061273	HDAC7	293.5460541	-0.602137948	0.05441003
ENSG00000187097	ENTPD5	259.7983858	-0.602179853	0.158576573
ENSG00000148204	CRB2	6.84155238	-0.602208217	0.707408137
ENSG00000171476	HOPX	18075.1625	-0.602301017	0.022784023
ENSG00000131473	ACLY	15774.86622	-0.602301205	0.087937935
ENSG00000115112	TFCP2L1	4314.233311	-0.602378629	0.093095332
ENSG00000163072	NOSTRIN	668.336361	-0.602462031	0.101705064
ENSG00000187650	VMAC	36.66756839	-0.602823888	0.345371415

ENSG00000133657	ATP13A3	16595.43398	-0.602960434	0.043877077
ENSG00000110172	CHORDC1	920.3137049	-0.603283189	0.088393203
ENSG00000245958	AC093752.1	79.82974828	-0.603294241	0.17214427
ENSG00000126458	RRAS	147.6900423	-0.604263288	0.131809319
ENSG00000110013	SIAE	718.342269	-0.604304662	0.013622359
ENSG00000152455	SUV39H2	177.1886488	-0.604376481	0.06845178
ENSG00000204882	GPR20	2.234734054	-0.604565552	0.857653054
ENSG00000121879	PIK3CA	408.2703565	-0.604668535	0.062561099
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ENSG00000132423	COQ3	209.845915	-0.604732569	0.053263679
ENSG00000182636	NDN	118.1199127	-0.604897805	0.155793983
ENSG00000115464	USP34	4089.604715	-0.605100519	0.076667098
ENSG00000165288	BRWD3	869.457705	-0.605155815	0.102060008
ENSG00000198555	AC133561.1	4.459150857	-0.605252546	0.798455447
ENSG00000228742	LINC02577	7.409458579	-0.605475509	0.680845008
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ENSG00000183762	KREMEN1	841.5491726	-0.605699646	0.137326578
ENSG00000070759	TESK2	450.9538257	-0.605768125	0.017706398
ENSG00000179604	CDC42EP4	4224.321075	-0.605915373	0.00242277
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ENSG00000165802	NSMF	206.5539656	-0.606281822	0.059505551
ENSG00000180720	CHRM4	4.610467036	-0.606525791	0.788720911
ENSG00000214765	SEPTIN7P2	96.93442491	-0.606573455	0.193209212
ENSG00000116237	ICMT	3375.63917	-0.606609724	0.004030494

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ENSG00000283236	AC074141.1	8.115476984	-0.606935332	0.69935484
ENSG00000133114	GPALPP1	288.175143	-0.607108763	0.024292187
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ENSG00000199804	RNA5SP383	5.436986342	-0.607873924	0.778888151
ENSG00000188707	ZBED6CL	352.653381	-0.6078761	0.031828301
ENSG00000076351	SLC46A1	158.3218745	-0.60792392	0.127052619
ENSG00000197044	ZNF441	80.77065221	-0.607943081	0.225804846
ENSG00000197417	SHPK	106.5516943	-0.608086501	0.148325956
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ENSG00000147437	GNRH1	5.295153598	-0.608672618	0.769440853
ENSG00000145390	USP53	1520.735628	-0.60891743	0.009555807
ENSG00000279233	AC122688.3	23.20653473	-0.609084446	0.512807821
ENSG00000276293	PIP4K2B	536.4447211	-0.609299752	0.058679604
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ENSG00000067955	CBFB	1236.836552	-0.609869632	0.005376593
ENSG00000127540	UQCR11	193.4646788	-0.609882165	0.082522392
ENSG00000177432	NAP1L5	153.055255	-0.609961326	0.139571583
ENSG00000269982	AC018809.2	11.31050619	-0.610075085	0.604292021

ENSG00000104419	NDRG1	2251.504244	-0.610349631	0.127169559
ENSG00000204104	TRAF3IP1	155.7898189	-0.610672809	0.130291976
ENSG00000163214	DHX57	660.347199	-0.610986791	0.047964845
ENSG00000154217	PITPNC1	79.27666314	-0.611242627	0.282406391
ENSG00000135052	GOLM1	2142.24899	-0.611332044	0.003042917
ENSG00000135148	TRAFD1	974.138461	-0.611388689	0.004552336
ENSG00000279722	AC007342.7	7.908196515	-0.611632934	0.68826858
ENSG00000143324	XPR1	1540.231103	-0.611828703	0.12152446
ENSG00000146828	SLC12A9	1767.980028	-0.611931729	0.004488697
ENSG00000174669	SLC29A2	635.9968323	-0.611986201	0.064595749
ENSG00000152767	FARP1	196.1676674	-0.612156777	0.059678665
ENSG00000178573	MAF	3.82762792	-0.612182979	0.847315556
ENSG00000100554	ATP6V1D	2200.811414	-0.612224274	0.023613483
ENSG00000142178	SIK1	134.1699772	-0.612424964	0.104438758
ENSG00000205060	SLC35B4	2152.261929	-0.612465735	0.008537002
ENSG00000092847	AGO1	4380.556186	-0.612502914	0.006492262
ENSG00000167394	ZNF668	242.8454411	-0.6125586	0.084184389
ENSG00000175895	PLEKHF2	438.1726832	-0.612930985	0.064653576
ENSG00000213064	SFT2D2	1150.104479	-0.613051842	0.00346579
ENSG00000106336	FBXO24	15.60814711	-0.613266543	0.58137917
ENSG00000227733	AC239809.3	6.111393634	-0.613303872	0.766005867
ENSG00000185722	ANKFY1	1777.554499	-0.613352134	0.002257918
ENSG00000125257	ABCC4	14.01255197	-0.613958607	0.568485136
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ENSG00000158887	MPZ	45.3580161	-0.61401891	0.327295705
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ENSG00000273084	AC092171.5	10.79056513	-0.614371741	0.647921632
ENSG00000177842	ZNF620	34.55788574	-0.61477568	0.433601284
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ENSG00000130227	XPO7	3929.639993	-0.614973869	0.012636318
ENSG00000249082	C5orf66-AS1	54.25473924	-0.614981286	0.267631622
ENSG00000244932	AL449212.1	5.962127375	-0.614995343	0.699632213
ENSG00000143845	ETNK2	306.1255499	-0.615058804	0.086591531
ENSG00000236565	HNRNPA3P5	25.22678702	-0.615480586	0.402283732
ENSG00000257258	AC012150.1	6.517120052	-0.615721233	0.686496463
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ENSG00000188002	AC026412.1	18.7123536	-0.616129626	0.488647187
ENSG00000184058	TBX1	12.07260354	-0.616448252	0.622428464
ENSG00000135083	CCNJL	29.96395671	-0.616724967	0.480182529
ENSG00000138686	BBS7	96.58766192	-0.616801307	0.225215935
ENSG00000145014	TMEM44	389.2755895	-0.617002043	0.107720071
ENSG00000158122	PRXL2C	164.2374799	-0.617134537	0.112037202
ENSG00000133142	TCEAL4	353.1431495	-0.61734556	0.05530211
ENSG00000180340	FZD2	14.97770748	-0.617426813	0.665680843
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ENSG00000138443	ABI2	469.525854	-0.617683276	0.010889896
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ENSG00000168062	BATF2	14.95868301	-0.618601322	0.607630018
ENSG00000227372	TP73-AS1	239.7580123	-0.619085105	0.06771699
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ENSG00000106049	HIBADH	1667.412601	-0.619236707	0.08893372
ENSG00000088882	CPXM1	11.10658302	-0.619575849	0.663417274
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ENSG00000140497	SCAMP2	6232.587875	-0.619995942	0.013567462
ENSG00000140320	BAHD1	1014.697994	-0.620023004	0.006609695
ENSG00000152377	SPOCK1	3.226824469	-0.620158285	0.855093696
ENSG00000181826	RELL1	3664.719099	-0.620566938	0.132543728
ENSG00000130669	PAK4	1883.534948	-0.621108129	0.003009787
ENSG00000101972	STAG2	4201.129682	-0.621196168	0.003108637
ENSG00000196482	ESRRG	5786.811922	-0.621230618	0.011458941
ENSG00000175155	YPEL2	314.9250963	-0.621321236	0.156187108
ENSG00000284634	AC092821.3	8.122148891	-0.621682046	0.719962491
ENSG00000133812	SBF2	852.6465693	-0.621716516	0.163526238
ENSG00000163950	SLBP	958.7902011	-0.621833161	0.01098774
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ENSG00000117593	DARS2	1118.259143	-0.621935428	0.003491196
ENSG00000225423	TNPO1P1	2.556137404	-0.621942895	0.862565231
ENSG00000175893	ZDHHC21	222.6124919	-0.622301035	0.060423984
ENSG00000099998	GGT5	33.81014302	-0.622481649	0.389730045
ENSG00000259781	HMGB1P6	388.0258584	-0.623048138	0.040774551

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ENSG00000132326	PER2	348.0689863	-0.623363907	0.029066649
ENSG00000157613	CREB3L1	354.5770594	-0.62361599	0.153191501
ENSG00000157152	SYN2	9.698290122	-0.62383555	0.623014656
ENSG00000154240	CEP112	35.26835721	-0.623921272	0.385774265
ENSG00000265982	AC103810.3	13.69848934	-0.624082059	0.553181137
ENSG00000185339	TCN2	7.300093203	-0.6241361	0.711943528
ENSG00000008323	PLEKHG6	2080.524663	-0.624211904	0.092730395
ENSG00000197238	HIST1H4J	3.519443078	-0.624349494	0.821545841
ENSG00000134326	CMPK2	185.0392485	-0.624669455	0.161782872
ENSG00000168116	KIAA1586	305.22128	-0.624914434	0.025737483
ENSG00000231125	AF129075.1	5.428036276	-0.624936787	0.747816952
ENSG00000142856	ITGB3BP	325.118549	-0.624941544	0.026795589
ENSG00000100285	NEFH	55.13538909	-0.625093929	0.213916965
ENSG00000125772	GPCPD1	979.5120755	-0.625214175	0.064482683
ENSG00000072954	TMEM38A	15.57073087	-0.625319993	0.564114087
ENSG00000141298	SSH2	254.9393999	-0.62542278	0.040963319
ENSG00000166165	CKB	1181.429892	-0.62566052	0.020313942
ENSG00000196268	ZNF493	105.8838504	-0.625954104	0.104989881
ENSG00000136243	NUP42	195.7477345	-0.626521653	0.051450023
ENSG00000127084	FGD3	579.2140757	-0.626613305	0.021145754
ENSG00000109101	FOXN1	4.087387187	-0.626693394	0.776824852
ENSG00000032219	ARID4A	367.7854116	-0.626714182	0.009738143
ENSG00000171316	CHD7	1557.819916	-0.626760332	0.030916451

ENSG00000171160	MORN4	50.44654476	-0.626800925	0.390055865
ENSG00000213639	PPP1CB	13927.71245	-0.626893087	0.021474235
ENSG00000039123	MTREX	3938.257078	-0.626998475	0.001021715
ENSG00000113811	SELENOK	1626.283493	-0.627136103	0.030083469
ENSG00000151694	ADAM17	1632.773299	-0.627255731	0.021317925
ENSG00000185101	ANO9	1106.085208	-0.627367924	0.008513825
ENSG00000139737	SLAIN1	25.06095515	-0.627475074	0.503620087
ENSG00000198561	CTNND1	22060.88194	-0.627535749	0.013915422
ENSG00000197128	ZNF772	62.48102905	-0.627544043	0.176112041
ENSG00000135363	LMO2	37.40193401	-0.627777515	0.447147472
ENSG00000197381	ADARB1	160.5461907	-0.627827906	0.10445829
ENSG00000106588	PSMA2	39.17309206	-0.627935005	0.282094291
ENSG00000117758	STX12	2682.426993	-0.628467179	0.0423109
ENSG00000059588	TARBP1	1656.603921	-0.628583986	0.022784023
ENSG00000114200	BCHE	2.109541696	-0.628877002	0.869554469
ENSG00000117594	HSD11B1	4.088654255	-0.628887023	0.780881105
ENSG00000100744	GSKIP	2496.141281	-0.628992396	0.006230418
ENSG00000083312	TNPO1	20720.71617	-0.629017819	0.006131365
ENSG00000103126	AXIN1	835.7946323	-0.629107506	0.001481176
ENSG00000116791	CRYZ	640.8673679	-0.629359647	0.053730225
ENSG00000101220	C20orf27	351.8142925	-0.62943302	0.030887319
ENSG00000273125	LINC01990	15.21654976	-0.629968309	0.582968322
ENSG00000171227	TMEM37	403.8435418	-0.630214545	0.592204592
ENSG00000230183	CNOT6LP1	25.31371385	-0.630337794	0.547581443

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ENSG00000135341	MAP3K7	1267.1201	-0.630640762	0.00795126
ENSG00000188770	OPTC	39.37955036	-0.630701178	0.348171846
ENSG00000148835	TAF5	1090.85775	-0.630889803	0.011317639
ENSG00000141524	TMC6	204.2680297	-0.63096037	0.072011047
ENSG00000197965	MPZL1	10666.70017	-0.631593245	0.000651979
ENSG00000094975	SUCO	3349.531627	-0.631877373	0.003594854
ENSG00000088970	KIZ	185.2495799	-0.632126828	0.114802802
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ENSG00000259959	AC107068.1	49.88663153	-0.633125014	0.298714074
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ENSG00000271254	AC240274.1	219.3154147	-0.633887387	0.066879054
ENSG00000278156	TSC22D1-AS1	10.93346838	-0.634048977	0.656536512
ENSG00000075945	KIFAP3	280.0268517	-0.634449231	0.031151765
ENSG00000125968	ID1	384.6212983	-0.634764228	0.08686395
ENSG00000105717	PBX4	10.36372061	-0.635303341	0.725110786
ENSG00000157510	AFAP1L1	1698.774907	-0.635824685	0.002559359
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ENSG00000164134	NAA15	3228.23366	-0.636463308	0.003518956
ENSG00000127399	LRRC61	787.4621807	-0.63670777	0.018308115

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ENSG00000265458	AC132938.3	8.274464125	-0.637217881	0.683458971
ENSG00000257511	AC084824.1	7.565870309	-0.637722361	0.665862117
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ENSG00000051382	PIK3CB	4858.417614	-0.637788318	0.005715273
ENSG00000139687	RB1	283.4925295	-0.637847091	0.022796759
ENSG00000104626	ERI1	1594.583332	-0.637892265	0.002398236
ENSG00000073670	ADAM11	16.75170282	-0.63833877	0.495398171
ENSG00000141526	SLC16A3	2290.341665	-0.638656464	0.487408553
ENSG00000169239	CA5B	89.71240493	-0.639449319	0.130120379
ENSG00000089123	TASP1	137.7955412	-0.639581956	0.198519513
ENSG00000137504	CREBZF	671.8286688	-0.63989778	0.004500403
ENSG00000196123	KIAA0895L	157.1551712	-0.63996075	0.128372028
ENSG00000241112	RPL29P14	6.656036066	-0.639999386	0.68043061
ENSG00000102096	PIM2	133.344756	-0.64008707	0.125650836
ENSG00000143457	GOLPH3L	1182.653859	-0.640136482	0.002662959
ENSG00000115020	PIKFYVE	1358.809696	-0.640201936	0.150087414
ENSG00000275854	AC084824.4	10.61160511	-0.640426365	0.611995778
ENSG00000083857	FAT1	1037.92509	-0.640434707	0.015514257
ENSG00000162607	USP1	1622.983924	-0.64091046	0.005086085
ENSG00000131094	C1QL1	5.376140262	-0.640943669	0.754572936
ENSG00000184068	SREBF2-AS1	71.82450646	-0.641018202	0.189086469
ENSG00000173692	PSMD1	7539.952024	-0.641117672	0.00665644

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ENSG00000144381	HSPD1	9085.101743	-0.641384129	0.002423425
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ENSG00000261183	SPINT1-AS1	16.23850213	-0.641463486	0.509936598
ENSG00000197444	OGDHL	4.893167171	-0.641525587	0.722373127
ENSG00000173546	CSPG4	6.988985824	-0.641852612	0.741441422
ENSG00000118482	PHF3	1535.825913	-0.642645676	0.019085545
ENSG00000132842	AP3B1	3119.404245	-0.64265979	0.005776938
ENSG00000181896	ZNF101	364.767952	-0.642736034	0.06224482
ENSG00000198189	HSD17B11	594.0059112	-0.64293921	0.006336102
ENSG00000196865	NHLRC2	744.1321255	-0.642979494	0.003780089
ENSG00000012223	LTF	26.63604364	-0.643834426	0.445741172
ENSG00000139508	SLC46A3	8.095491358	-0.6440102	0.739697846
ENSG00000172939	OXSR1	3163.085944	-0.644024415	0.003998364
ENSG00000223756	TSSC2	148.801769	-0.64423382	0.103471464
ENSG00000100311	PDGFB	601.6248836	-0.644572599	0.01309305
ENSG00000166741	NNMT	76.5493693	-0.644854243	0.498831331
ENSG00000018510	AGPS	948.0267784	-0.644902369	0.00158259
ENSG00000073331	ALPK1	32.47205878	-0.645626566	0.431897705
ENSG00000156795	WDYHV1	165.8877169	-0.645816264	0.061124722
ENSG00000146386	ABRACL	457.259613	-0.645852262	0.06269839
ENSG00000112769	LAMA4	9.086800401	-0.645912001	0.644829657
ENSG00000064547	LPAR2	132.7003175	-0.646164199	0.137966152
ENSG00000173040	EVC2	9.812827795	-0.646245448	0.616880355

ENSG00000107317	PTGDS	13.90616281	-0.646257135	0.591462683
ENSG00000232528	AL109809.1	3.401388941	-0.646257161	0.780367913
ENSG00000222019	URAHP	6.868835958	-0.646305719	0.701809199
ENSG00000141627	DYM	2193.621711	-0.646754918	0.007331012
ENSG00000112406	HECA	1181.381652	-0.646766051	0.015166868
ENSG00000285999	AC025442.2	13.40138669	-0.647045732	0.628360808
ENSG00000167992	VWCE	18.43936619	-0.647961893	0.565577778
ENSG00000179477	ALOX12B	23.16780545	-0.648145926	0.426218304
ENSG00000172888	ZNF621	712.5339925	-0.64818203	0.058552063
ENSG00000196659	TTC30B	14.25539552	-0.648673141	0.622945358
ENSG00000268970	AC022150.2	21.09939772	-0.648749418	0.455633398
ENSG00000284473	MIR4720	12.06200281	-0.648819466	0.629772262
ENSG00000287093	AC003093.1	44.39163664	-0.648826798	0.364353924
ENSG00000124789	NUP153	4467.357148	-0.648854315	0.016278059
ENSG00000182871	COL18A1	172.5749144	-0.649455888	0.102416073
ENSG00000188428	BLOC1S5	194.1141687	-0.649505061	0.049308759
ENSG00000014123	UFL1	1267.23194	-0.649536817	0.018542059
ENSG00000130856	ZNF236	246.8541432	-0.649681765	0.090186516
ENSG00000206140	TMEM191C	86.19608497	-0.649689916	0.282901847
ENSG00000250072	SH3TC2-DT	82.72516669	-0.649736653	0.14150217
ENSG00000271533	Z83843.1	20.12063539	-0.649763919	0.564188298
ENSG00000165389	SPTSSA	3089.256283	-0.649989331	0.03181225
ENSG00000221890	NPTXR	17.20187149	-0.649993522	0.588895278
ENSG00000107929	LARP4B	3899.170109	-0.650593627	0.005058412

ENSG00000107864	CPEB3	56.50003483	-0.650775374	0.256256124
ENSG00000129757	CDKN1C	2562.995761	-0.650904185	0.034068267
ENSG00000173137	ADCK5	96.01527781	-0.650919495	0.151181751
ENSG00000243789	JMJD7	5.88959693	-0.650960399	0.69924189
ENSG00000101144	BMP7	396.7347222	-0.651484521	0.023221596
ENSG00000254701	AC138866.2	7.324491541	-0.651584442	0.642465933
ENSG00000104884	ERCC2	482.7479111	-0.652573659	0.016786019
ENSG00000248409	AP000344.2	6.277361007	-0.652867018	0.697763741
ENSG00000069493	CLEC2D	28.55265943	-0.652951189	0.376877791
ENSG00000143549	TPM3	8772.75431	-0.653164268	0.000135572
ENSG00000265246	AC129926.1	118.7298126	-0.653287467	0.382456437
ENSG00000145780	FEM1C	713.4904237	-0.65354266	0.001289867
ENSG00000110651	CD81	4132.869133	-0.653990355	0.002243911
ENSG00000136636	KCTD3	4704.274513	-0.654175681	0.01328691
ENSG00000168679	SLC16A4	171.4970262	-0.654344851	0.0395063
ENSG00000227486	AL050309.1	6.974543859	-0.654563096	0.72696132
ENSG00000205436	EXOC3L4	7.814574634	-0.654652416	0.68549902
ENSG00000158764	ITLN2	8.934280843	-0.65485124	0.672932885
ENSG00000173805	HAP1	2204.081362	-0.655311571	0.018540341
ENSG00000100979	PLTP	2677.452611	-0.655399093	0.000951674
ENSG00000166974	MAPRE2	198.8479893	-0.655415853	0.025131642
ENSG00000246695	RASSF8-AS1	31.22576852	-0.655585626	0.308734493
ENSG00000150401	DCUN1D2	212.166776	-0.655618271	0.108986035
ENSG00000149084	HSD17B12	788.0038826	-0.655623562	0.048729795

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ENSG00000173473	SMARCC1	5000.136178	-0.656038286	0.016400849
ENSG00000182165	TP53TG1	29.36535266	-0.656128179	0.439652892
ENSG00000107771	CCSER2	4536.551855	-0.656211213	0.006651081
ENSG00000067900	ROCK1	1353.694579	-0.656270345	0.021043753
ENSG00000175352	NRIP3	226.4790971	-0.656299533	0.023871752
ENSG00000105552	BCAT2	983.0672958	-0.656335245	0.007786258
ENSG00000163807	KIAA1143	543.9466774	-0.656611986	0.021040338
ENSG00000170581	STAT2	3725.646917	-0.657034388	0.000491736
ENSG00000198380	GFPT1	8596.028008	-0.657457076	0.029663663
ENSG00000134283	PPHLN1	609.2175386	-0.657595268	0.002147647
ENSG00000172354	GNB2	4333.798712	-0.657985852	0.007060323
ENSG00000235859	AC006978.1	113.4171453	-0.658556528	0.129326062
ENSG00000167977	KCTD5	1672.083907	-0.658848918	0.005177151
ENSG00000175874	CREG2	104.4196021	-0.658864398	0.138763543
ENSG00000228487	AL450263.1	2.995429366	-0.659404006	0.820147587
ENSG00000186532	SMYD4	293.9292437	-0.659447045	0.020251464
ENSG00000158457	TSPAN33	55.00075504	-0.659533236	0.236337399
ENSG00000115109	EPB41L5	744.1105593	-0.659747821	0.011037406
ENSG00000196159	FAT4	5.285180238	-0.660004004	0.730629881
ENSG00000020181	ADGRA2	37.86705044	-0.66002678	0.433660053
ENSG00000128284	APOL3	14.57031441	-0.660076892	0.583733437
ENSG00000262333	HNRNPA1P16	21.04501163	-0.660235475	0.483836191
ENSG00000065135	GNAI3	3762.206661	-0.660340729	0.001084499

ENSG00000226268	AC135977.1	6.86523492	-0.660494746	0.699955516
ENSG00000159131	GART	4760.758243	-0.661082751	0.01143617
ENSG00000160221	GATD3A	4.433972687	-0.661092772	0.715380016
ENSG00000167100	SAMD14	31.27286427	-0.661128322	0.331367545
ENSG00000106078	COBL	2853.317624	-0.661459088	0.013260011
ENSG00000006576	PHTF2	872.5816586	-0.661464036	0.010690241
ENSG00000154263	ABCA10	3.292606323	-0.661552233	0.813015307
ENSG00000175662	TOM1L2	1665.67578	-0.661690961	0.007837751
ENSG00000118873	RAB3GAP2	1170.893064	-0.661925748	0.006009719
ENSG00000171295	ZNF440	2098.72474	-0.661961952	0.002983616
ENSG00000051596	THOC3	730.0678947	-0.66205651	0.001426506
ENSG00000188783	PRELP	45.84548952	-0.662281619	0.310544982
ENSG00000233429	HOTAIRM1	34.37784896	-0.662389849	0.410538645
ENSG00000261068	AL512274.1	7.006410566	-0.662424242	0.780624182
ENSG00000181007	ZFP82	93.29920778	-0.662833119	0.143182477
ENSG00000082258	CCNT2	1744.407533	-0.663093533	0.000299802
ENSG00000095321	CRAT	1821.532453	-0.663290569	0.148012611
ENSG00000116396	KCNC4	30.01850234	-0.663630568	0.32449293
ENSG00000109586	GALNT7	78.54432404	-0.663721914	0.172166133
ENSG00000204421	LY6G6C	580.380376	-0.663923294	0.097752866
ENSG00000181061	HIGD1A	2132.732913	-0.664206417	0.002534727
ENSG00000280128	AL662795.2	30.13320798	-0.664229422	0.337361358
ENSG00000067113	PLPP1	64.78301659	-0.664405733	0.299096396
ENSG00000033800	PIAS1	739.3475373	-0.664439977	0.006706331

ENSG00000140718	FTO	594.4261747	-0.664462347	0.008500402
ENSG00000213250	RBMS2P1	20.79707282	-0.664505476	0.425015921
ENSG00000113327	GABRG2	3.992383112	-0.66451355	0.797480412
ENSG00000135541	AHI1	302.6008372	-0.664576919	0.038182792
ENSG00000164930	FZD6	436.1959127	-0.664786071	0.02211265
ENSG00000145365	TIFA	248.3177306	-0.665008776	0.046155664
ENSG00000111674	ENO2	217.0755358	-0.665210905	0.068824886
ENSG00000116698	SMG7	5303.721484	-0.665627987	0.002530955
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ENSG00000163029	SMC6	1019.588343	-0.66599601	0.004519214
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ENSG00000227440	ATP5MC1P4	29.02488504	-0.666430348	0.384659551
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ENSG00000143376	SNX27	4963.361969	-0.666863345	0.017630931
ENSG00000197619	ZNF615	277.0711314	-0.666906868	0.043061627
ENSG00000278535	DHRS11	245.3638941	-0.666931929	0.04652582
ENSG00000271580	AL583832.1	3.644330995	-0.667208851	0.768997226
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ENSG00000254726	MEX3A	27.67327043	-0.667814794	0.39930495
ENSG00000150281	CTF1	17.94292503	-0.667930487	0.526114548
ENSG00000075702	WDR62	473.7182791	-0.668003235	0.050729096

ENSG00000111981	ULBP1	18.16934947	-0.668072443	0.526373794
ENSG00000100105	PATZ1	193.823301	-0.668264913	0.044850334
ENSG00000182979	MTA1	761.55235	-0.668265822	0.006151185
ENSG00000077235	GTF3C1	1326.429052	-0.668316411	0.003803924
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ENSG00000186298	PPP1CC	4763.46412	-0.668678008	0.001091217
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ENSG00000090971	NAT14	328.1585362	-0.669952252	0.04197448
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ENSG00000231563	AL139288.1	7.613655279	-0.670187709	0.632894444
ENSG00000213771	KRT8P37	3.292911308	-0.67029645	0.813015307
ENSG00000130487	KLHDC7B	3.583070122	-0.670630024	0.805653326
ENSG00000116954	RRAGC	2059.93069	-0.670714864	0.003488206
ENSG00000099822	HCN2	78.3355402	-0.670931858	0.105463969
ENSG00000075188	NUP37	935.2563035	-0.670973419	0.00253965
ENSG00000166896	ATP23	91.41294378	-0.670988063	0.176760005
ENSG00000131779	PEX11B	192.9826301	-0.671014294	0.038595994
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ENSG00000113966	ARL6	28.71725779	-0.671320482	0.354427833
ENSG00000168143	FAM83B	601.3594906	-0.671701222	0.004603991
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ENSG00000259275	AC087477.2	10.25892233	-0.672292992	0.565660761
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ENSG00000138594	TMOD3	2175.55005	-0.672891227	0.006548514
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ENSG00000180488	MIGA1	1314.904235	-0.67316604	0.148150445
ENSG00000165118	C9orf64	196.477186	-0.673223734	0.048669937
ENSG00000253515	AC018682.2	13.50460048	-0.67409651	0.579753371
ENSG00000259820	AC083843.3	1005.14689	-0.674608164	0.006946616
ENSG00000164024	METAP1	1421.659225	-0.674705854	0.001902712
ENSG00000183250	LINC01547	22.19119919	-0.67481799	0.458299638
ENSG00000085978	ATG16L1	1504.952161	-0.674878139	0.001972603
ENSG00000225854	AL451139.1	12.99960582	-0.675036966	0.63000379
ENSG00000124532	MRS2	1632.147058	-0.675559414	0.015946156
ENSG00000265194	AL359922.2	7.6840527	-0.675818021	0.701141938
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ENSG00000165025	SYK	25.31034647	-0.676238153	0.434314817
ENSG00000197748	CFAP43	7.513489213	-0.676381489	0.708845311
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ENSG00000256417	AC006206.2	12.63927486	-0.676613138	0.546725599
ENSG00000213430	HSPD1P1	8.782539316	-0.676720356	0.622663337
ENSG00000131263	RLIM	1794.558668	-0.67681657	0.003108637
ENSG00000223608	DSCR4-IT1	18.28172896	-0.67686364	0.472653008
ENSG00000173905	GOLIM4	74.3672767	-0.676904792	0.342336036
ENSG00000227256	MIS18A-AS1	2.608899363	-0.677181104	0.846078903
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ENSG00000122912	SLC25A16	1631.543098	-0.677533965	0.000428707
ENSG00000146072	TNFRSF21	10782.89773	-0.677642598	0.000511642
ENSG00000155827	RNF20	512.577204	-0.677918205	0.003676028
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ENSG00000150722	PPP1R1C	36.87570105	-0.678374524	0.445535952
ENSG00000137880	GCHFR	3.166283373	-0.67843758	0.785529788
ENSG00000228649	SNHG26	41.60053105	-0.678635749	0.241875653
ENSG00000203668	CHML	834.9795026	-0.679251792	0.102060008
ENSG00000185189	NRBP2	221.8023818	-0.679343647	0.01783771
ENSG00000272945	AL356299.2	11.69662785	-0.679529094	0.649061786
ENSG00000134779	TPGS2	1154.752973	-0.680136457	0.000579252
ENSG00000204277	LINC01993	4.475975935	-0.680442055	0.714377096
ENSG00000145687	SSBP2	53.38659798	-0.680804157	0.218446647
ENSG00000115756	HPCAL1	4421.758555	-0.681018459	0.002639909
ENSG00000269837	IPO5P1	118.110532	-0.681129314	0.203978341

ENSG00000275989	AL442128.1	57.46658647	-0.681531317	0.323172151
ENSG00000262879	AC005670.3	29.57505971	-0.681735239	0.390074502
ENSG00000109686	SH3D19	1420.735345	-0.681803437	0.064278247
ENSG00000166348	USP54	114.2105778	-0.681917182	0.103427791
ENSG00000076770	MBNL3	12325.09564	-0.681919082	0.007036899
ENSG00000149531	FRG1BP	104.3096744	-0.682329003	0.156356821
ENSG00000075420	FNDC3B	3747.165962	-0.682532547	0.01626548
ENSG00000238035	AC138035.1	5.063516643	-0.682658375	0.75860364
ENSG00000131730	CKMT2	50.07865652	-0.682712394	0.437895532
ENSG00000178233	TMEM151B	30.80135667	-0.682771463	0.299067264
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ENSG00000130427	EPO	4.463124549	-0.683150402	0.755447439
ENSG00000072958	AP1M1	645.9100381	-0.683176056	0.005343139
ENSG00000150347	ARID5B	2134.525459	-0.683225099	0.019287948
ENSG00000272498	AC090948.2	2.87910648	-0.683414557	0.818633286
ENSG00000213551	DNAJC9	731.7350784	-0.683769257	0.013792887
ENSG00000139343	SNRPF	773.9611161	-0.683881717	0.005978433
ENSG00000159459	UBR1	3058.466526	-0.683885349	0.009946368
ENSG00000115325	DOK1	94.2604927	-0.684028287	0.16615652
ENSG00000124177	CHD6	397.641241	-0.684138319	0.003177285
ENSG00000282978	AC110994.2	6.340654847	-0.68418745	0.700934463
ENSG00000177084	POLE	2240.105279	-0.684621889	0.001765047
ENSG00000154025	SLC5A10	16.63955388	-0.68472902	0.551380747
ENSG00000083097	DOP1A	129.065108	-0.684991563	0.155048044

ENSG00000146247	PHIP	1699.637906	-0.685304969	0.01473694
ENSG00000151715	TMEM45B	23.11529867	-0.685469882	0.445433236
ENSG00000166889	PATL1	1914.935593	-0.685817263	0.007980813
ENSG00000197841	ZNF181	16.15942895	-0.685917201	0.547822618
ENSG00000111906	HDDC2	661.7405714	-0.686429863	0.002054497
ENSG00000119203	CPSF3	1629.729349	-0.686747302	0.002532017
ENSG00000089682	RBM41	213.9441568	-0.686808985	0.026453899
ENSG00000130741	EIF2S3	6880.009037	-0.686812286	0.001050244
ENSG00000128534	LSM8	536.2492542	-0.687182973	0.007615256
ENSG00000224934	AL391684.1	11.64597474	-0.687200613	0.56983784
ENSG00000105928	GSDME	3879.145796	-0.687567792	0.002289076
ENSG00000173267	SNCG	8.507890297	-0.687751449	0.68162475
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ENSG00000105227	PRX	184.6634172	-0.688420194	0.177509855
ENSG00000100625	SIX4	417.1145686	-0.688659391	0.063682144
ENSG00000183808	RBM12B	165.1345786	-0.68890648	0.077515273
ENSG00000054523	KIF1B	808.6269319	-0.689086616	0.049652366
ENSG00000213626	LBH	43.79257183	-0.689173672	0.238020512
ENSG00000268964	ERVV-2	31043.06093	-0.689186387	0.000709769
ENSG00000124214	STAU1	5028.735735	-0.689329966	0.002694466
ENSG00000111640	GAPDH	64610.12063	-0.689389654	4.83E-05
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ENSG00000114166	KAT2B	443.1907066	-0.690893436	0.004956669
ENSG00000221829	FANCG	1664.068605	-0.691071765	0.000438441
ENSG00000125648	SLC25A23	339.5058682	-0.691201311	0.021637625
ENSG00000113407	TARS	7294.667621	-0.691357259	0.036126403
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ENSG00000105810	CDK6	525.8162257	-0.691616949	0.011290029
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ENSG00000131171	SH3BGRL	6.79769208	-0.691856372	0.659272032
ENSG00000010319	SEMA3G	425.7051377	-0.691950782	0.185459857
ENSG00000154553	PDLIM3	2614.9368	-0.69223593	0.022457965
ENSG00000112624	BICRAL	263.9241347	-0.692396217	0.103796924
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ENSG00000261713	SSTR5-AS1	3.478574402	-0.692550307	0.747631456
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ENSG00000171357	LURAP1	102.3713309	-0.693127864	0.260472617
ENSG00000263301	AC113189.3	11.45961187	-0.693220536	0.575398329
ENSG00000113272	THG1L	102.3323204	-0.693503551	0.114558772
ENSG00000187730	GABRD	4.340783513	-0.694146529	0.742076555
ENSG00000179044	EXOC3L1	20.3097041	-0.694538793	0.603173288
ENSG00000133313	CNDP2	4408.279564	-0.694713389	0.000417411
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ENSG00000152223	EPG5	1619.254215	-0.695103747	0.035927831
ENSG00000123130	ACOT9	334.9890941	-0.695377616	0.01536204
ENSG00000044446	PHKA2	464.9576976	-0.6957391	0.006117166

ENSG00000232160	RAP2C-AS1	8.108006813	-0.695809121	0.656536512
ENSG00000259088	AL137779.2	11.61347039	-0.695863518	0.555044504
ENSG00000273749	CYFIP1	4543.138039	-0.695963726	0.003170911
ENSG00000128578	STRIP2	493.1849031	-0.696027328	0.09858934
ENSG00000196951	SCOC-AS1	9.228363725	-0.696034412	0.702109758
ENSG00000262454	MIR193BHG	52.89263816	-0.696229428	0.18703277
ENSG00000125124	BBS2	801.8196446	-0.6966012	0.010035679
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ENSG00000258788	CKS1BP1	59.32598865	-0.697327566	0.320226696
ENSG00000127824	TUBA4A	313.7535134	-0.697416931	0.188411736
ENSG00000130270	ATP8B3	4.941101268	-0.697956036	0.739331184
ENSG00000132170	PPARG	2968.195969	-0.698057421	0.001391203
ENSG00000061938	TNK2	955.744046	-0.698145129	0.021967298
ENSG00000053702	NRIP2	16.98197432	-0.698405976	0.443289794
ENSG00000219395	HSPA8P15	3.98030395	-0.698471777	0.755616453
ENSG00000212978	AC016747.1	52.12521123	-0.698540437	0.180048586
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ENSG00000105520	PLPPR2	224.1510236	-0.69864871	0.081542821
ENSG00000280010	AP001350.2	8.276575858	-0.69877032	0.634503098
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ENSG00000156273	BACH1	1114.477733	-0.70241737	0.003404628
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ENSG00000139116	KIF21A	3328.687186	-0.702654239	0.001887139
ENSG00000167220	HDHD2	5.530335969	-0.703385313	0.677282607
ENSG00000152484	USP12	597.4312466	-0.704071553	0.001939352
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ENSG00000100814	CCNB1IP1	969.275681	-0.704352973	0.00210639
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ENSG00000179066	AC020907.1	7.72285025	-0.704477094	0.653718689
ENSG00000183060	LYSMD4	85.17849572	-0.704545431	0.118917787
ENSG00000162825	NBPF20	279.8419087	-0.704611104	0.078452384
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ENSG00000124593	AL365205.1	45.35248509	-0.704905981	0.214751007
ENSG00000107643	MAPK8	246.2020963	-0.704957543	0.011539206
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ENSG00000242325	RPS12P31	5.175438592	-0.705487995	0.733609618
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ENSG00000070366	SMG6	501.7081257	-0.706480007	0.019148266
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ENSG00000181392	SYNE4	52.93638941	-0.706885278	0.301920069
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ENSG00000135314	KHDC1	18.268086	-0.707180657	0.551010291
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ENSG00000278948	AL031587.5	40.08710611	-0.707773843	0.294757929
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ENSG00000101825	MXRA5	8.554961814	-0.709925619	0.741177785
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ENSG00000125753	VASP	6425.770622	-0.710734196	0.001110978
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ENSG00000112874	NUDT12	165.7814254	-0.730933367	0.085910836
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ENSG00000225151	GOLGA2P7	31.78002875	-0.732538164	0.34958547
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ENSG00000169855	ROBO1	845.2208337	-0.733541473	0.012488404
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ENSG00000146938	NLGN4X	5.451112756	-0.734184002	0.721240244
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ENSG00000172071	EIF2AK3	1688.153654	-0.739330996	0.014405899
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ENSG00000253729	PRKDC	5037.601139	-0.740538406	0.002445204
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ENSG00000251192	ZNF674	86.88361748	-0.741028873	0.112053183
ENSG00000101333	PLCB4	6.093433759	-0.741066442	0.750177952
ENSG00000003137	CYP26B1	24.84799258	-0.742094213	0.4079053
ENSG00000230927	TMBIM7P	29.84828969	-0.742477987	0.501035103
ENSG00000167005	NUDT21	2241.156003	-0.742753522	6.23E-05
ENSG00000124251	TP53TG5	11.83197828	-0.742982913	0.554754241
ENSG00000130675	MNX1	47.39595357	-0.743056236	0.180048586
ENSG00000227121	LINC02672	172.9224286	-0.743146635	0.033961717
ENSG00000011347	SYT7	2421.502534	-0.743344449	0.049849666

ENSG00000235903	CPB2-AS1	4.287987623	-0.743436836	0.773367934
ENSG00000162695	SLC30A7	1439.005878	-0.743451873	0.000574497
ENSG00000108641	B9D1	85.51347443	-0.743509204	0.114159647
ENSG00000105245	NUMBL	68.36969923	-0.743798019	0.127515467
ENSG00000241170	AP001992.1	9.445604547	-0.744196874	0.668807525
ENSG00000167775	CD320	630.0144749	-0.744219376	0.009021797
ENSG00000138604	GLCE	348.3001987	-0.744280171	0.011089595
ENSG00000188582	PAQR9	9.846075347	-0.744306786	0.526682242
ENSG00000178996	SNX18	1282.226737	-0.744447832	0.00495545
ENSG00000166037	CEP57	1179.92692	-0.744575892	0.005299165
ENSG00000089335	ZNF302	54.53984914	-0.745297959	0.30277723
ENSG00000174442	ZWILCH	631.9282439	-0.745392514	0.000364511
ENSG00000083444	PLOD1	3294.135181	-0.745441991	0.01150446
ENSG00000010219	DYRK4	32.11721694	-0.745589829	0.304465485
ENSG00000204264	PSMB8	25.79009269	-0.74585412	0.379310953
ENSG00000151240	DIP2C	567.1554788	-0.746029695	0.042589646
ENSG00000100028	SNRPD3	482.1606314	-0.746095702	0.014446894
ENSG00000165832	TRUB1	187.6999465	-0.746327102	0.02019727
ENSG00000254991	AC124276.1	2.363719393	-0.747022678	0.835311392
ENSG00000074621	SLC24A1	148.5073596	-0.747162916	0.104210451
ENSG00000151376	ME3	16.98897609	-0.747349909	0.554804912
ENSG00000155657	TTN	90.1963793	-0.747387421	0.081694823
ENSG00000184178	SCFD2	804.9389263	-0.74740364	0.001021715
ENSG00000180011	ZADH2	159.8789268	-0.747720113	0.046440717

ENSG00000187510	C12orf74	4.803008515	-0.74784935	0.762758312
ENSG00000197457	STMN3	94.37618478	-0.747926395	0.16840906
ENSG00000077150	NFKB2	4914.651439	-0.747997203	0.012699093
ENSG00000255216	AP001360.1	3.547089005	-0.748019821	0.776570782
ENSG00000149292	TTC12	66.2234283	-0.748127118	0.233811703
ENSG00000238084	AL031284.1	5.921611344	-0.748582247	0.641213532
ENSG00000278949	AC127070.4	4.986289967	-0.748735449	0.687720374
ENSG00000228696	ARL17B	7.107515091	-0.749237012	0.621735748
ENSG00000119121	TRPM6	30.41793475	-0.749365697	0.30571007
ENSG00000101955	SRPX	319.9838235	-0.749538324	0.009663487
ENSG00000244731	C4A	164.6379468	-0.749684368	0.257570897
ENSG00000173273	TNKS	1124.063894	-0.750367334	0.004325113
ENSG00000287385	AL121820.3	27.90492676	-0.750618877	0.283932389
ENSG00000071054	MAP4K4	7646.002129	-0.751318232	0.000197859
ENSG00000188032	C19orf67	14.07837215	-0.751424362	0.549208144
ENSG00000228948	SLC25A6P5	4.449667173	-0.751492156	0.764369355
ENSG00000136518	ACTL6A	848.6452734	-0.751972237	0.000233689
ENSG00000074416	MGLL	4307.774979	-0.75210231	0.002167124
ENSG00000206113	CFAP99	3.118593664	-0.752776642	0.787777363
ENSG00000143554	SLC27A3	142.7651827	-0.752796445	0.048010383
ENSG00000103351	CLUAP1	71.85274581	-0.752834605	0.247489989
ENSG00000164742	ADCY1	4.761715354	-0.752890563	0.698953591
ENSG00000156675	RAB11FIP1	6524.250444	-0.753221514	0.00054481
ENSG00000137054	POLR1E	607.5829646	-0.753251094	0.002175554

ENSG00000166224	SGPL1	694.2828303	-0.753614109	0.004307228
ENSG00000131626	PPFIA1	3998.063962	-0.753732529	0.0004602
ENSG00000180902	D2HGDH	120.1430603	-0.753783772	0.117587966
ENSG00000126759	CFP	7.692037449	-0.75428391	0.737743357
ENSG00000280077	AL353763.2	17.60305303	-0.754317313	0.444127456
ENSG00000183943	PRKX	570.867503	-0.754409047	0.000461722
ENSG00000085382	HACE1	562.4055451	-0.754606282	0.005122489
ENSG00000159713	TPPP3	347.6088834	-0.754774087	0.170769431
ENSG00000123843	C4BPB	8.708283354	-0.754997831	0.643072196
ENSG00000053371	AKR7A2	1702.302698	-0.755019914	0.006876173
ENSG00000187790	FANCM	288.7675673	-0.755026621	0.023777578
ENSG00000161681	SHANK1	58.13755588	-0.755528904	0.154730054
ENSG00000090861	AARS	22000.29355	-0.755829134	0.012846535
ENSG00000131738	KRT33B	5.955707202	-0.756869186	0.63233818
ENSG00000271971	AC120053.1	7.281046034	-0.756880283	0.627585857
ENSG00000030110	BAK1	437.7072908	-0.757035945	0.000846855
ENSG00000130766	SESN2	3576.183309	-0.757193638	0.001978257
ENSG00000211451	GNRHR2	14.80992866	-0.757273858	0.468993545
ENSG00000184481	FOXO4	10869.63892	-0.75745425	0.011276454
ENSG00000117174	ZNHIT6	259.8853092	-0.757464403	0.010044106
ENSG00000116717	GADD45A	734.0252538	-0.757914918	0.000488723
ENSG00000276023	DUSP14	1343.286453	-0.757917836	0.047324969
ENSG00000163710	PCOLCE2	11.77289717	-0.757929339	0.527518075
ENSG00000188010	MORN2	67.69960381	-0.758093174	0.161243172

ENSG00000143149	ALDH9A1	1487.364002	-0.75829633	0.000200978
ENSG00000030066	NUP160	3186.350949	-0.758348145	0.000615272
ENSG00000142599	RERE	2355.213559	-0.758586995	0.019031015
ENSG00000077152	UBE2T	617.4185748	-0.758714328	0.005944728
ENSG00000131844	MCCC2	1754.410761	-0.759112369	0.000239758
ENSG00000129354	AP1M2	1577.687525	-0.759303553	0.000951674
ENSG00000115828	QPCT	56.79366533	-0.759367974	0.373624473
ENSG00000171988	JMJD1C	1511.814496	-0.759448904	0.004538397
ENSG00000198454	LINC02692	6.765845982	-0.759452773	0.722246219
ENSG00000213300	HNRNPA3P6	58.74293296	-0.759997211	0.140444009
ENSG00000204709	LINC01556	11.28695662	-0.760021502	0.612383783
ENSG00000165490	DDIAS	266.201783	-0.7602556	0.009636406
ENSG00000232527	LINC02802	9.110750147	-0.760298821	0.591173215
ENSG00000147130	ZMYM3	516.206676	-0.760905753	0.006258334
ENSG00000243155	AL162431.1	4.099809847	-0.761128941	0.689279628
ENSG00000205189	ZBTB10	3230.998757	-0.761760193	0.003468409
ENSG00000214535	RPS15AP1	3.737758232	-0.762051523	0.762915772
ENSG00000154473	BUB3	2972.329134	-0.76251344	6.78E-05
ENSG00000070182	SPTB	8.449330336	-0.762747208	0.578925084
ENSG00000127527	EPS15L1	1067.763243	-0.762814042	0.001072552
ENSG00000078674	PCM1	3256.596843	-0.76315622	0.000855873
ENSG00000186908	ZDHHC17	433.3639072	-0.763537892	0.01415677
ENSG00000117013	KCNQ4	11.56677784	-0.763581439	0.521086107
ENSG00000228158	TLE1P1	15.70164899	-0.764177684	0.45111409

ENSG00000138772	ANXA3	1064.353257	-0.764224276	0.096836472
ENSG00000135932	CAB39	3291.341066	-0.76427568	0.000107923
ENSG00000124920	MYRF	319.1767839	-0.764530497	0.039514398
ENSG00000083828	ZNF586	243.841348	-0.764530707	0.020158739
ENSG00000165895	ARHGAP42	695.976324	-0.764757879	0.03036879
ENSG00000131711	MAP1B	38.23082135	-0.764772683	0.2576435
ENSG00000168065	SLC22A11	6566.098122	-0.764796704	0.0090926
ENSG00000187231	SESTD1	6228.155394	-0.76491081	0.003832122
ENSG00000104341	LAPTM4B	3218.295628	-0.765186815	0.012843615
ENSG00000180210	F2	5.532404405	-0.765413733	0.68549902
ENSG00000214013	GANC	156.6104075	-0.765571087	0.041850958
ENSG00000047188	YTHDC2	417.3189166	-0.765680499	0.00114032
ENSG00000139679	LPAR6	2.916440235	-0.765708313	0.766005867
ENSG00000101868	POLA1	458.4180711	-0.765750078	0.001837163
ENSG00000196678	ERI2	110.0836797	-0.765758192	0.08989815
ENSG00000104081	BMF	276.0823119	-0.766069801	0.00620482
ENSG00000235397	EPN2-AS1	2.238464898	-0.766233752	0.836251349
ENSG00000120063	GNA13	2460.411444	-0.76650062	0.001530691
ENSG00000107796	ACTA2	27.75666952	-0.766629003	0.52286141
ENSG00000261338	AC021016.2	9.666310109	-0.766754375	0.555530438
ENSG00000147548	NSD3	2737.822198	-0.766970162	0.001423641
ENSG00000163412	EIF4E3	113.4410092	-0.767379339	0.082015547
ENSG00000140262	TCF12	1593.275587	-0.767547726	0.001130225
ENSG00000128567	PODXL	167.7401913	-0.768025933	0.073779618

ENSG00000167088	SNRPD1	1337.679406	-0.768577915	0.000267913
ENSG00000101417	PXMP4	291.9711042	-0.768943152	0.012012454
ENSG00000163141	BNIPL	75.51347971	-0.769023183	0.165288403
ENSG00000132541	RIDA	166.1042476	-0.769165126	0.016416974
ENSG00000197442	MAP3K5	134.5429423	-0.769194784	0.108321582
ENSG00000112237	CCNC	2476.447956	-0.769256096	0.000117004
ENSG00000133816	MICAL2	1065.605358	-0.769773862	0.027788913
ENSG00000066651	TRMT11	341.087334	-0.76989639	0.007888373
ENSG00000049618	ARID1B	2336.037601	-0.770012423	0.000154664
ENSG00000124813	RUNX2	9.432594958	-0.770155682	0.525100237
ENSG00000233266	HMGB1P31	6.650945097	-0.770820303	0.60787746
ENSG00000145911	N4BP3	465.419154	-0.770870332	0.006077187
ENSG00000198315	ZKSCAN8	227.8392003	-0.770892721	0.025171674
ENSG00000121289	CEP89	187.7450043	-0.772016657	0.018308115
ENSG00000104808	DHDH	8.513452223	-0.772237524	0.654367727
ENSG00000180233	ZNRF2	317.4857094	-0.772557506	0.07776411
ENSG00000198924	DCLRE1A	334.673116	-0.77257248	0.002523687
ENSG00000253276	CCDC71L	386.1193412	-0.772682506	0.085458032
ENSG00000167695	TLCD3A	648.0273314	-0.772785047	0.001526961
ENSG00000125319	C17orf53	565.6279086	-0.772826565	0.0085124
ENSG00000132793	LPIN3	128.4982115	-0.773018585	0.09331789
ENSG00000147324	MFHAS1	608.2093783	-0.773162509	0.000435633
ENSG00000183955	KMT5A	1442.717264	-0.773251554	0.019180181
ENSG00000145248	SLC10A4	3.13428417	-0.773277013	0.808729009

ENSG00000111716	LDHB	123.1400971	-0.773572921	0.025131642
ENSG00000138430	OLA1	1917.033092	-0.774586371	2.27E-05
ENSG00000180758	GPR157	2662.166008	-0.774865338	0.006907863
ENSG00000066468	FGFR2	1380.322904	-0.774964125	0.000809807
ENSG00000069248	NUP133	2500.671191	-0.775025246	0.000121584
ENSG00000168610	STAT3	2290.869551	-0.77527784	0.0009066
ENSG00000173226	IQCB1	766.0991843	-0.775346096	0.001431709
ENSG00000019186	CYP24A1	27.00508192	-0.775397622	0.354264945
ENSG00000116774	OLFML3	20.50726735	-0.775602147	0.54615031
ENSG00000179023	KLHDC7A	8.249530331	-0.77561002	0.56525189
ENSG00000250893	AC098869.2	6.81514658	-0.775677692	0.696250953
ENSG00000263002	ZNF234	84.42012007	-0.775683976	0.065472745
ENSG00000180229	HERC2P3	117.4384858	-0.775798494	0.106646384
ENSG00000123219	CENPK	643.9977943	-0.77590557	0.001654304
ENSG00000234197	ETV5-AS1	4.131190858	-0.775948199	0.679114416
ENSG00000122787	AKR1D1	12.16925683	-0.77609655	0.513984045
ENSG00000156711	MAPK13	461.1596812	-0.776273562	0.00196034
ENSG00000197647	ZNF433	140.8250332	-0.776369969	0.097432405
ENSG00000188313	PLSCR1	2557.605541	-0.776440042	0.005840582
ENSG00000169398	PTK2	3791.955246	-0.776571771	0.001480124
ENSG00000232859	LYRM9	18.47132225	-0.77657523	0.445535952
ENSG00000134602	STK26	680.8178887	-0.776968492	0.000457829
ENSG00000069966	GNB5	129.6528236	-0.777002576	0.052057032
ENSG00000123684	LPGAT1	173.1770115	-0.777301467	0.016154154

ENSG00000187607	ZNF286A	104.9377132	-0.778502388	0.221829724
ENSG00000163935	SFMBT1	401.7873134	-0.778648338	0.010436263
ENSG00000175920	DOK7	4.662972214	-0.778913488	0.662663666
ENSG00000198933	TBKBP1	45.79366163	-0.779030958	0.184686877
ENSG00000074966	TXK	5.104804636	-0.779401278	0.6979359
ENSG00000148908	RGS10	232.8467333	-0.77974377	0.008979953
ENSG00000111077	TNS2	45.9024462	-0.780552803	0.277270179
ENSG00000198689	SLC9A6	1289.292376	-0.780714086	0.000840495
ENSG00000130402	ACTN4	26776.42419	-0.780736552	0.002350096
ENSG00000105866	SP4	37.56181205	-0.780895163	0.325311293
ENSG00000108395	TRIM37	788.0015439	-0.781038579	0.000967775
ENSG00000182379	NXPH4	49.48471154	-0.781060499	0.13870759
ENSG00000136147	PHF11	274.1473125	-0.781079879	0.031072331
ENSG00000135823	STX6	1523.067686	-0.781650361	0.000151904
ENSG00000109743	BST1	85.92514554	-0.781745366	0.078162385
ENSG00000132405	TBC1D14	1680.879365	-0.781894466	0.060684319
ENSG00000183484	GPR132	5.766119556	-0.782027499	0.740161746
ENSG00000231713	AF064860.2	158.9320537	-0.782560627	0.014270697
ENSG00000286360	AC107081.4	4.437473428	-0.784100184	0.74284367
ENSG00000143412	ANXA9	693.1855647	-0.784274456	0.024420567
ENSG00000065970	FOXJ2	698.3577153	-0.784625673	0.001419656
ENSG00000167641	PPP1R14A	101.0856755	-0.784688148	0.044670031
ENSG00000104738	MCM4	4217.801984	-0.784762957	3.89E-05
ENSG00000256812	CAPNS2	3.241797279	-0.784776546	0.755447439

ENSG00000151846	PABPC3	26.2892321	-0.785044581	0.368347879
ENSG00000134072	CAMK1	10.64151539	-0.785156169	0.513319512
ENSG00000181690	PLAG1	169.1270311	-0.785214781	0.083634066
ENSG00000088179	PTPN4	525.5877317	-0.785272824	0.001785214
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ENSG00000130396	AFDN	5214.608414	-0.786230431	0.000644428
ENSG00000271936	AC012073.1	74.9044766	-0.78634381	0.077613754
ENSG00000163884	KLF15	304.8060921	-0.786842699	0.04908902
ENSG00000137269	LRRC1	4984.82407	-0.787193585	3.91E-05
ENSG00000182199	SHMT2	4176.977622	-0.787685917	0.01773147
ENSG00000273604	EPOP	240.9421665	-0.787811095	0.044005556
ENSG00000121903	ZSCAN20	39.98217613	-0.788116635	0.334189677
ENSG00000130723	PRRC2B	9045.098147	-0.788547403	0.042170831
ENSG00000016490	CLCA1	3.477068467	-0.788885786	0.731681411
ENSG00000102805	CLN5	107.6280263	-0.789616554	0.044269752
ENSG00000131944	FAAP24	72.97371029	-0.78971366	0.090983073
ENSG00000107036	RIC1	1298.099817	-0.78985945	0.000578729
ENSG00000286451	AL499602.1	5.823865755	-0.790036801	0.717572961
ENSG00000223559	AC073136.1	4.69181909	-0.790473552	0.649004666
ENSG00000263968	RN7SL381P	15.67857703	-0.790713983	0.54554879
ENSG00000174705	SH3PXD2B	2635.175737	-0.791153077	0.023091541
ENSG00000112249	ASCC3	2866.35903	-0.791220023	0.000131026
ENSG00000100784	RPS6KA5	2456.566213	-0.791376567	0.000291266
ENSG00000170464	DNAJC18	74.09407423	-0.791567855	0.107662741

ENSG00000171798	KNDC1	8.328163571	-0.792213309	0.563293937
ENSG00000173542	MOB1B	657.7289597	-0.79227046	0.020041285
ENSG00000117054	ACADM	455.6132392	-0.792700419	0.00377696
ENSG00000159247	TUBBP5	11.65911239	-0.793030525	0.508984343
ENSG00000027001	MIPEP	304.7055009	-0.793089806	0.001230692
ENSG00000113719	ERGIC1	840.6352902	-0.793330636	0.000792145
ENSG00000144645	OSBPL10	1914.782958	-0.793421599	0.000851239
ENSG00000146729	NIPSNAP2	381.0580608	-0.793502606	0.006052602
ENSG00000102854	MSLN	53.59976417	-0.793755326	0.209117964
ENSG00000128242	GAL3ST1	295.4355946	-0.793996971	0.016842105
ENSG00000177721	ANXA2R	4.220625495	-0.794245973	0.788181871
ENSG00000224138	AC000123.1	9.005267181	-0.794493117	0.523339849
ENSG00000173559	NABP1	3540.341885	-0.794496512	0.035479808
ENSG00000181444	ZNF467	7.55781109	-0.794535743	0.647796752
ENSG00000120949	TNFRSF8	78.09671786	-0.794614408	0.09275729
ENSG00000145506	NKD2	295.1278007	-0.795421043	0.041768081
ENSG00000096872	IFT74	172.7889562	-0.795475501	0.013408633
ENSG00000163655	GMPS	2330.893922	-0.795550382	4.71E-05
ENSG00000226121	AC009487.2	36.40572401	-0.795876711	0.362350729
ENSG00000169193	CCDC126	322.3218832	-0.796070821	0.012104999
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ENSG00000171017	LRRC8E	9.47078153	-0.800602479	0.547781844
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ENSG00000133874	RNF122	27.95076985	-0.801856138	0.297867977
ENSG00000198892	SHISA4	50.68699222	-0.802192414	0.17160932
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ENSG00000160323	ADAMTS13	7.379974791	-0.802741183	0.609734125
ENSG00000103226	NOMO3	469.0193248	-0.803121583	0.005580374
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ENSG00000163644	PPM1K	149.002301	-0.806857532	0.036342498
ENSG00000065978	YBX1	6433.717487	-0.807083924	8.63E-05
ENSG00000124788	ATXN1	68.78305654	-0.807316706	0.168471015
ENSG00000254573	AP004550.1	2.273245064	-0.807690659	0.82588734
ENSG00000127743	IL17B	4.254478504	-0.808101989	0.669308124
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ENSG00000113649	TCERG1	3338.756164	-0.808759593	0.000188807
ENSG00000272923	AC092139.1	167.7196482	-0.80880775	0.053263679
ENSG00000111602	TIMELESS	3042.599192	-0.809364416	7.22E-05
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ENSG00000157106	SMG1	4166.739332	-0.817347515	0.005333524
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ENSG00000235489	DBF4P1	4.595790796	-0.818003874	0.687308402
ENSG00000263069	RNF213-AS1	9.257101145	-0.818198468	0.553260013
ENSG00000203995	ZYG11A	112.0575253	-0.818239341	0.080821641
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ENSG00000126216	TUBGCP3	1211.012319	-0.81853065	0.001665514
ENSG00000110811	P3H3	27.25263123	-0.819327145	0.236427355
ENSG00000113916	BCL6	231.8929208	-0.81991202	0.006871801
ENSG00000255120	OVOL1-AS1	29.15029132	-0.820343168	0.300671783
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ENSG00000137601	NEK1	205.2488477	-0.826375175	0.023922152
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ENSG00000101190	TCFL5	124.7267466	-0.827013455	0.032768259
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ENSG00000163785	RYK	1079.278614	-0.828937489	1.19E-05
ENSG00000151176	PLBD2	1024.825531	-0.828992812	0.00039647
ENSG00000162543	UBXN10	137.7664185	-0.829148135	0.100524953
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ENSG00000164733	CTSB	49071.6672	-0.830116557	0.007766568
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ENSG00000204764	RANBP17	109.9841337	-0.831969209	0.053225133
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ENSG00000286873	AC012306.3	5.323144954	-0.832522379	0.686832638
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ENSG00000203855	HSD3BP4	21.31910963	-0.833947316	0.418123686
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ENSG00000229000	SEPTIN7P8	6.311001459	-0.834921407	0.621904415
ENSG00000269662	BNIP3P39	4.936595498	-0.834996827	0.647796752
ENSG00000184828	ZBTB7C	155.5214131	-0.835000958	0.059489673
ENSG00000163635	ATXN7	20.25177777	-0.835002345	0.395620817
ENSG00000048991	R3HDM1	388.8933219	-0.835068692	0.001161097
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ENSG00000130517	PGPEP1	4287.429366	-0.835391288	0.301224394
ENSG00000050555	LAMC3	3.169061895	-0.835399267	0.763052548
ENSG00000197122	SRC	1542.403072	-0.835535515	0.00035253
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ENSG00000182359	KBTBD3	31.92430649	-0.836937153	0.204000366
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ENSG00000169550	MUC15	11511.52488	-0.837846606	2.15E-05
ENSG00000023608	SNAPC1	42.60364951	-0.837999585	0.161747947
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ENSG00000163637	PRICKLE2	118.8914646	-0.839418241	0.057280536
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ENSG00000066739	ATG2B	2903.55658	-0.845458637	0.001104667
ENSG00000270503	YTHDF2P1	3.415260304	-0.846015238	0.706446385
ENSG00000175279	CENPS	4.717484496	-0.846216534	0.67680675
ENSG00000185386	MAPK11	9.126193563	-0.846598568	0.59479835
ENSG00000226453	LINC02542	15.03043806	-0.846678713	0.374681394
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ENSG00000174306	ZHX3	422.7176359	-0.848805209	0.002188569
ENSG00000130956	HABP4	107.4456622	-0.848902312	0.036497197
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ENSG00000272293	AC083964.1	17.04685333	-0.850839876	0.37230476
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ENSG00000077585	GPR137B	277.4835286	-0.852176069	0.022626496

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ENSG00000261678	SCRT1	4.18458224	-0.852408131	0.688195517
ENSG00000105483	CARD8	563.6397661	-0.852808039	0.013497377
ENSG00000157500	APPL1	751.2983753	-0.852844226	0.002165057
ENSG00000108424	KPNB1	9477.737857	-0.852930475	3.64E-05
ENSG00000152404	CWF19L2	415.3913931	-0.85318298	0.000454014
ENSG00000139990	DCAF5	691.0670989	-0.85387264	0.000795064
ENSG00000140526	ABHD2	429.3576451	-0.854298909	0.003451373
ENSG00000265298	AC132812.1	35.4404293	-0.854302709	0.212412081
ENSG00000163666	HESX1	7.222100424	-0.854330318	0.573890743
ENSG00000129474	AJUBA	673.1424085	-0.854347752	0.042819073
ENSG00000237781	AL356356.1	26.97898772	-0.854918913	0.304089382
ENSG00000130844	ZNF331	1178.026033	-0.854969029	2.78E-05
ENSG00000162704	ARPC5	2803.292809	-0.854989438	2.59E-06
ENSG00000267500	ZNF887P	7.287377129	-0.855422334	0.625179235
ENSG00000264364	DYNLL2	9121.871799	-0.855760702	1.89E-05
ENSG00000090447	TFAP4	200.9659201	-0.855834222	0.005796748
ENSG00000197860	SGTB	163.1657296	-0.856544138	0.007495555
ENSG00000236015	AC011290.2	5.377478966	-0.856702175	0.600632097
ENSG00000157212	PAXIP1	585.1217562	-0.856881808	0.000177739
ENSG00000145439	CBR4	174.5905657	-0.856963687	0.00797821
ENSG00000160703	NLRX1	142.1633741	-0.857202415	0.027688146
ENSG00000257636	G2E3-AS1	13.82718834	-0.857864135	0.585314927
ENSG00000285257	AL157893.1	9.728565796	-0.857977139	0.484774887

ENSG00000183742	MACC1	198.4182474	-0.858047543	0.023049293
ENSG00000150893	FREM2	646.7593525	-0.858085261	0.008556965
ENSG00000065923	SLC9A7	593.3440702	-0.858325307	0.000236444
ENSG00000217624	AL627402.1	4.985646611	-0.858806297	0.650463247
ENSG00000197670	AL157838.1	18.68207161	-0.85893637	0.365591012
ENSG00000114544	SLC41A3	610.7262654	-0.859003681	0.000574805
ENSG00000260279	AC137932.1	25.86037083	-0.859313586	0.21019667
ENSG00000176273	SLC35G1	88.8161714	-0.859688286	0.039747344
ENSG00000134256	CD101	7.107231642	-0.859720048	0.636652668
ENSG00000119242	CCDC92	137.0011334	-0.860343904	0.042332568
ENSG00000154734	ADAMTS1	14459.56859	-0.860420551	0.000493994
ENSG00000196867	ZFP28	56.91447069	-0.860490248	0.12222406
ENSG00000120868	APAF1	341.2256801	-0.860523169	0.031156647
ENSG00000015285	WAS	2.484797341	-0.860711383	0.783096736
ENSG00000054282	SDCCAG8	206.1189359	-0.860830553	0.006952549
ENSG00000102977	ACD	311.9412433	-0.861027139	0.001275472
ENSG00000189159	JPT1	1536.071466	-0.861152703	2.46E-05
ENSG00000160396	HIPK4	3.573405726	-0.861205926	0.742561971
ENSG00000169567	HINT1	1197.669958	-0.861310829	0.000491911
ENSG00000267023	LRRC37A16P	10.20890563	-0.861346521	0.502443503
ENSG00000179941	BBS10	60.66294278	-0.861528667	0.220486955
ENSG00000173281	PPP1R3B	356.1676587	-0.861687911	0.001562969
ENSG00000085788	DDHD2	865.7641851	-0.861862775	0.0028798
ENSG00000113504	SLC12A7	475.7315281	-0.862018625	0.004430446

ENSG00000124767	GLO1	3700.635777	-0.8620711	4.67E-07
ENSG00000041880	PARP3	8.582990143	-0.862118561	0.629992521
ENSG00000104517	UBR5	6101.695447	-0.862831314	0.001935423
ENSG00000185839	AL035411.1	5.458374349	-0.863446224	0.653470936
ENSG00000268864	AC011487.2	14.81252284	-0.863871039	0.424369658
ENSG00000108379	WNT3	32.29986224	-0.863934549	0.217950988
ENSG00000180957	PITPNB	4072.532264	-0.863953164	0.000423833
ENSG00000068305	MEF2A	151.9819417	-0.864062952	0.025870781
ENSG00000171365	CLCN5	494.7546379	-0.864253803	0.004560751
ENSG00000154822	PLCL2	848.1151158	-0.865055366	0.001957626
ENSG00000162521	RBBP4	1953.956852	-0.865443635	5.00E-05
ENSG00000119318	RAD23B	16441.60149	-0.865569911	6.61E-06
ENSG00000079246	XRCC5	7716.069643	-0.8655984	7.56E-06
ENSG00000200090	Y_RNA	4.593695681	-0.865772887	0.672705546
ENSG00000131015	ULBP2	10.78887308	-0.865892688	0.476839224
ENSG00000254087	LYN	8346.388034	-0.865969898	4.51E-06
ENSG00000182150	ERCC6L2	177.1535152	-0.866440729	0.002916614
ENSG00000112941	TENT4A	782.3065081	-0.866567441	0.000845444
ENSG00000100714	MTHFD1	1639.959567	-0.866866874	6.33E-06
ENSG00000069974	RAB27A	363.3730605	-0.868203735	0.006548514
ENSG00000152213	ARL11	161.077837	-0.868500611	0.012487303
ENSG00000065802	ASB1	294.94016	-0.869344946	0.001381493
ENSG00000131899	LLGL1	818.9631435	-0.869895383	9.70E-05
ENSG00000171914	TLN2	21.85201341	-0.869948983	0.362287656

ENSG00000146757	ZNF92	192.9715438	-0.870047561	0.011318957
ENSG00000095015	MAP3K1	588.3069566	-0.87025232	0.016089147
ENSG00000047932	GOPC	1830.82509	-0.870727762	3.56E-06
ENSG00000144468	RHBDD1	262.1246711	-0.870783774	0.006285238
ENSG00000171943	SRGAP2C	394.1818214	-0.8707961	0.009397022
ENSG00000135362	PRR5L	40.40342599	-0.870821068	0.265858021
ENSG00000141560	FN3KRP	1107.967781	-0.871176845	0.000155408
ENSG00000143537	ADAM15	6336.710706	-0.87164825	3.32E-06
ENSG00000163354	DCST2	21.8547089	-0.871727251	0.30684292
ENSG00000258199	AC073896.4	2.351697593	-0.871791382	0.78173099
ENSG00000183688	RFLNB	252.5290687	-0.871904777	0.033466947
ENSG00000185215	TNFAIP2	5205.844774	-0.87216378	0.004382734
ENSG00000175061	SNHG29	2783.62708	-0.872441038	0.000203318
ENSG00000140548	ZNF710	223.9291289	-0.872538243	0.009992443
ENSG00000042317	SPATA7	57.16320814	-0.873011705	0.080955036
ENSG00000257242	LINC01619	12.02617315	-0.873513139	0.573347677
ENSG00000145391	SETD7	3098.960181	-0.873549794	0.000856065
ENSG00000140443	IGF1R	4063.756338	-0.874183774	0.000214373
ENSG00000258643	BCL2L2-PABPN1	3.372557275	-0.874250169	0.729919561
ENSG00000274840	AC132807.2	4.700997528	-0.874846563	0.669798217
ENSG00000114978	MOB1A	1848.915214	-0.875635122	2.40E-06
ENSG00000090013	BLVRB	779.5090985	-0.87581934	0.001679702
ENSG00000110108	TMEM109	3592.968216	-0.87603143	6.39E-05
ENSG00000180190	TDRP	5821.263704	-0.876487494	3.15E-06

ENSG00000263235	AC006111.2	6.98162122	-0.876554863	0.613042968
ENSG00000183579	ZNRF3	211.7689134	-0.876862746	0.002069188
ENSG00000188312	CENPP	175.9501082	-0.877861859	0.00262684
ENSG00000213625	LEPROT	3827.056097	-0.878184558	7.34E-05
ENSG00000069509	FUNDC1	164.068966	-0.878354039	0.013497377
ENSG00000148288	GBGT1	119.0130926	-0.878517074	0.059499959
ENSG00000151491	EPS8	765.1192918	-0.878562083	1.22E-05
ENSG00000187164	SHTN1	1410.626101	-0.878755779	0.000656672
ENSG00000215440	NPEPL1	35.60413719	-0.879234315	0.139571583
ENSG00000251595	ABCA11P	4.175732221	-0.879269536	0.67047955
ENSG00000124570	SERPINB6	3315.626285	-0.879431336	0.001378751
ENSG00000004866	ST7	1105.628225	-0.879565528	1.68E-05
ENSG00000166508	MCM7	11681.1799	-0.879779773	1.84E-06
ENSG00000088876	ZNF343	51.24163743	-0.879788869	0.073499384
ENSG00000183087	GAS6	1169.963819	-0.879984256	3.72E-05
ENSG00000178462	TUBAL3	3.457263552	-0.880068181	0.739122249
ENSG00000197969	VPS13A	789.7454378	-0.880897886	0.003232405
ENSG00000227896	AL731569.1	11.00883064	-0.881125364	0.471251217
ENSG00000157625	TAB3	2960.335267	-0.8817533	0.003146933
ENSG00000184575	XPOT	5732.556877	-0.882201209	0.001021101
ENSG00000128254	C22orf24	3.537925778	-0.882506374	0.750130321
ENSG00000167600	CYP2S1	203.8357	-0.882697775	0.006350299
ENSG00000166946	CCNDBP1	4874.474376	-0.882945788	0.001849862
ENSG00000275582	AL031670.1	5.036581467	-0.883400942	0.630014481

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ENSG00000163376	KBTBD8	41.086801	-0.884922812	0.175659037
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ENSG00000175449	RFESD	5.136218772	-0.885226305	0.654532554
ENSG00000066629	EML1	121.5244235	-0.885542037	0.011215017
ENSG00000115008	IL1A	5.686134413	-0.885839688	0.632894444
ENSG00000120306	CYSTM1	668.0312326	-0.886158054	0.000917034
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ENSG00000139675	HNRNPA1L2	43.15846102	-0.887060314	0.117951927
ENSG00000122547	EEPD1	45.2035598	-0.887388182	0.211559097
ENSG00000285728	AC098484.4	32.57903471	-0.887561753	0.216975712
ENSG00000132003	ZSWIM4	333.653935	-0.887668644	0.014119838
ENSG00000092621	PHGDH	4929.208892	-0.888578132	0.010646982
ENSG00000280206	AC026401.3	58.137521	-0.888672838	0.14561604
ENSG00000163803	PLB1	565.8456091	-0.888734433	0.006572399
ENSG00000139182	CLSTN3	755.9885323	-0.888778767	0.000324245
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ENSG00000109576	AADAT	1138.47762	-0.889446472	0.003067918
ENSG00000170264	FAM161A	118.4741326	-0.890003592	0.032803743
ENSG00000115840	SLC25A12	62.06538201	-0.890184557	0.087253093
ENSG00000214063	TSPAN4	333.083027	-0.890352083	0.004276443
ENSG00000168918	INPP5D	462.8965218	-0.890846982	0.036844853
ENSG00000121236	TRIM6	496.5645031	-0.890961714	0.00040435

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ENSG00000151292	CSNK1G3	681.2306248	-0.891230146	0.000306016
ENSG00000259392	AC090877.1	15.1747965	-0.891560181	0.56189191
ENSG00000143217	NECTIN4	3921.101681	-0.891837175	3.60E-07
ENSG00000031698	SARS	8884.841812	-0.891883835	1.39E-06
ENSG00000083720	OXCT1	24.81475512	-0.892140125	0.297233491
ENSG00000275993	SIK1B	177.9688439	-0.892197112	0.011255854
ENSG00000151806	GUF1	435.4085247	-0.892464295	0.000112802
ENSG00000121064	SCPEP1	254.6425851	-0.892702535	0.000495508
ENSG00000205726	ITSN1	4446.616002	-0.892781033	1.71E-05
ENSG00000166263	STXBP4	69.78445199	-0.893309787	0.065554612
ENSG00000258048	AC073569.2	3.562083709	-0.893421237	0.684058097
ENSG00000136695	IL36RN	1561.273091	-0.893471653	0.004151381
ENSG00000229404	LINC00858	66.23859621	-0.893562415	0.072520992
ENSG00000133226	SRRM1	4295.760968	-0.893653891	3.35E-06
ENSG00000272078	AL139423.1	18.82930197	-0.893776443	0.289896078
ENSG00000183765	CHEK2	595.3769264	-0.893832118	0.000135983
ENSG00000272977	AL008721.2	10.89060212	-0.893977181	0.419262782
ENSG00000146232	NFKBIE	221.3863527	-0.894079748	0.040649647
ENSG00000278540	ACACA	5154.697437	-0.895487262	0.007803736
ENSG00000108091	CCDC6	4970.832406	-0.895530346	0.000262502
ENSG00000150540	HNMT	49.23468616	-0.895568521	0.149593765
ENSG00000109881	CCDC34	266.5685399	-0.895709221	0.016519182
ENSG00000100749	VRK1	1424.403014	-0.896040267	3.65E-05

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ENSG00000254986	DPP3	644.8907991	-0.897105047	0.000398551
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ENSG00000137497	NUMA1	7869.065455	-0.89759626	0.000766834
ENSG00000153823	PID1	277.1799558	-0.897705391	0.066224964
ENSG00000198089	SFI1	97.20594866	-0.89779936	0.031282646
ENSG00000138439	FAM117B	197.1111992	-0.897812384	0.009653603
ENSG00000152056	AP1S3	47.12802442	-0.897863121	0.097016534
ENSG00000175899	A2M	7.771737401	-0.898055079	0.54615031
ENSG00000260456	C16orf95	7.704468069	-0.898432691	0.542146153
ENSG00000125378	BMP4	39.02768644	-0.898509492	0.235252862
ENSG00000139133	ALG10	50.86326228	-0.898602045	0.10101714
ENSG00000285763	AL358777.1	8.576415938	-0.898929123	0.520940117
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ENSG00000050405	LIMA1	5663.208051	-0.899715615	8.83E-05
ENSG00000074356	NCBP3	2641.40885	-0.900313208	6.49E-06
ENSG00000244479	OR2A1-AS1	16.26857114	-0.900416849	0.378947088
ENSG00000163017	ACTG2	32.93999906	-0.900876748	0.285345665
ENSG00000262668	AJ003147.2	7.954759989	-0.900920641	0.614219514
ENSG00000134291	TMEM106C	1043.364062	-0.900989625	3.96E-06
ENSG00000104205	SGK3	457.1077826	-0.901284778	0.0041832
ENSG00000172340	SUCLG2	492.8051442	-0.901372963	0.010139528
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ENSG00000092148	HECTD1	8247.090662	-0.902450513	0.000123426
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ENSG00000198105	ZNF248	84.67214336	-0.902877835	0.022396891
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ENSG00000198382	UVRAG	907.0224236	-0.905527836	0.00114727
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ENSG00000138709	LARP1B	3850.882688	-0.905923544	0.000153393
ENSG00000106462	EZH2	2516.175695	-0.906155393	0.000660242
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ENSG00000119403	PHF19	125.4292418	-0.906707377	0.017562847
ENSG00000188277	C15orf62	12.56479161	-0.90683506	0.450239907
ENSG00000270184	AC018695.4	3.346568971	-0.907419307	0.725338133
ENSG00000173838	MARCH10	4.326363153	-0.907932284	0.721789043
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ENSG00000136010	ALDH1L2	746.0551686	-0.908137956	0.292489917
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ENSG00000162769	FLVCR1	174.0268885	-0.909356051	0.002233904
ENSG00000139192	TAPBPL	31.14340061	-0.909377192	0.153228272
ENSG00000148730	EIF4EBP2	7292.519762	-0.909377601	2.74E-05
ENSG00000234477	AC004231.1	21.28846421	-0.909747398	0.278619467
ENSG00000136160	EDNRB	311.7595816	-0.909910196	0.070837359
ENSG00000085449	WDFY1	952.7049241	-0.910010662	0.00203775
ENSG00000278384	AL354822.1	19.57769809	-0.910360172	0.356413664
ENSG00000262227	AC004771.3	2.226822422	-0.910642583	0.79911376
ENSG00000166402	TUB	409.4618113	-0.910790805	0.029941827
ENSG00000180773	SLC36A4	161.6081724	-0.910808311	0.002899693
ENSG00000144026	ZNF514	100.5947106	-0.910824045	0.018099332
ENSG00000136868	SLC31A1	9225.989116	-0.910851073	0.000226682
ENSG00000079215	SLC1A3	2385.332818	-0.91097307	0.035316187
ENSG00000166788	SAAL1	225.7078972	-0.911188556	0.002563472
ENSG00000235831	BHLHE40-AS1	14.23770047	-0.911350285	0.352910181
ENSG00000181322	NME9	4.613907168	-0.912291454	0.647921632
ENSG00000287257	AC111182.2	10.98086329	-0.912716376	0.560129308
ENSG00000267530	LINC01836	4.863365271	-0.913169178	0.652417355
ENSG00000101307	SIRPB1	8.795601823	-0.913193969	0.513510698
ENSG00000229939	AL589880.1	43.36397777	-0.913996035	0.150849403
ENSG00000072210	ALDH3A2	328.4959176	-0.914200518	0.001418826
ENSG00000260007	AC107871.1	16.04116428	-0.914473964	0.317402007
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ENSG00000139629	GALNT6	629.0390089	-0.916720418	0.002119193
ENSG00000185963	BICD2	2225.961266	-0.91689152	1.66E-05
ENSG00000152661	GJA1	153.3565584	-0.917355225	0.022829885
ENSG00000173728	C1orf100	3.986554452	-0.917378847	0.687175752
ENSG00000122008	POLK	186.0378628	-0.917943522	0.019413011
ENSG00000198053	SIRPA	2453.71354	-0.918610969	0.001207062
ENSG00000100934	SEC23A	1636.490219	-0.918615588	0.012995532
ENSG00000215834	FMO9P	79.76597088	-0.91914254	0.077501775
ENSG00000069011	PITX1	2416.827831	-0.919289978	0.000355747
ENSG00000131558	EXOC4	1060.054185	-0.919306766	4.37E-05
ENSG00000137693	YAP1	2553.17217	-0.919350245	1.49E-06
ENSG00000143061	IGSF3	6133.344624	-0.919431691	0.014659443
ENSG00000066697	MSANTD3	668.5574832	-0.919555536	3.87E-05
ENSG00000180881	CAPS2	4.633193938	-0.919625729	0.711943528
ENSG00000123600	METTL8	498.7721634	-0.919676591	8.13E-05
ENSG00000108797	CNTNAP1	18.83638928	-0.920187159	0.323277099
ENSG00000241484	ARHGAP8	61.30109766	-0.920198095	0.122457987
ENSG00000150477	KIAA1328	93.03024967	-0.920262067	0.035093064
ENSG00000166483	WEE1	9572.21302	-0.920585815	2.55E-06
ENSG00000140575	IQGAP1	15875.67153	-0.920642391	0.000176942
ENSG00000264281	AC016596.3	8.424437888	-0.921537775	0.528256473

ENSG00000168496	FEN1	4220.418907	-0.921973217	5.73E-05
ENSG00000143416	SELENBP1	34.73969874	-0.922002737	0.120361743
ENSG00000180806	HOXC9	17.94861482	-0.922275666	0.415247797
ENSG00000149636	DSN1	1129.615148	-0.922442047	2.71E-05
ENSG00000151470	C4orf33	302.1910735	-0.922492991	0.001185606
ENSG00000281398	SNHG4	78.55477741	-0.922567315	0.164875776
ENSG00000255529	POLR2M	116.6799552	-0.923257543	0.041901855
ENSG00000257270	AL928654.2	8.266027724	-0.92373915	0.517623534
ENSG00000082898	XPO1	12264.27046	-0.924257091	2.55E-05
ENSG00000164823	OSGIN2	366.8130845	-0.924289473	0.011311779
ENSG00000069482	GAL	109.8618754	-0.925075595	0.024023773
ENSG00000224186	C5orf66	27.4959238	-0.925140198	0.339292714
ENSG00000155629	PIK3AP1	107.525343	-0.925615382	0.073347169
ENSG00000009724	MASP2	9.444777777	-0.925640066	0.600632097
ENSG00000117411	B4GALT2	376.48579	-0.925729249	0.010447772
ENSG00000107938	EDRF1	332.6968251	-0.925860656	0.001814266
ENSG00000125821	DTD1	80.47607115	-0.925977546	0.037461375
ENSG00000213713	PIGCP1	27.37150198	-0.925989021	0.328503752
ENSG00000214114	MYCBP	651.7059595	-0.92612375	0.000178026
ENSG00000277200	AC005696.4	3.854721771	-0.926277067	0.646329351
ENSG00000132383	RPA1	4185.008405	-0.926344425	8.97E-08
ENSG00000149115	TNKS1BP1	1180.940922	-0.926447114	0.005216871
ENSG00000173698	ADGRG2	21.69130881	-0.926562162	0.28706181
ENSG00000130600	H19	69716.42511	-0.92659203	0.000398247

ENSG00000261008	LINC01572	24.31477894	-0.92682521	0.186936836
ENSG00000135047	CTSL	25630.22023	-0.926853672	0.000154302
ENSG00000129038	LOXL1	10.37418298	-0.927337817	0.66273821
ENSG00000148200	NR6A1	4474.512998	-0.927916508	8.48E-06
ENSG00000233321	LINC02669	6.422575727	-0.928610866	0.531893831
ENSG00000062822	POLD1	1431.41504	-0.928763478	1.53E-05
ENSG00000234420	ZNF37BP	96.86675658	-0.929163197	0.104408181
ENSG00000277879	AL391988.1	5.952687109	-0.929324267	0.596951349
ENSG00000123374	CDK2	7665.637236	-0.930125958	3.46E-06
ENSG00000213465	ARL2	266.1860493	-0.930363184	0.000650143
ENSG00000140090	SLC24A4	6.750619399	-0.930522033	0.597264546
ENSG00000235772	AP001625.2	4.57238085	-0.930794503	0.652036513
ENSG00000156269	NAA11	132.3364903	-0.931240338	0.061154896
ENSG00000069020	MAST4	4253.492203	-0.931347758	0.000381044
ENSG00000162139	NEU3	263.9011141	-0.931549436	0.008384422
ENSG00000161653	NAGS	13.21030449	-0.931638523	0.339080401
ENSG00000232043	AL133230.1	7.711332782	-0.93164865	0.482384434
ENSG00000182218	HHIPL1	39.21484646	-0.931694487	0.185729517
ENSG00000140525	FANCI	3003.479855	-0.932082719	1.00E-05
ENSG00000265519	AC015922.2	5.885330761	-0.932265939	0.636148455
ENSG00000078114	NEBL	459.9418274	-0.932459192	9.42E-05
ENSG00000236283	AC019197.1	112.4747899	-0.932737478	0.007134507
ENSG00000082781	ITGB5	2585.818672	-0.932828932	0.000176242
ENSG00000181544	FANCB	241.1928219	-0.93315483	0.008823036

ENSG00000276043	UHRF1	219.5123653	-0.933196643	0.032288518
ENSG00000152291	TGOLN2	3880.059877	-0.933239421	4.17E-06
ENSG00000227188	MGAT3-AS1	13.96532249	-0.933702681	0.382456437
ENSG00000124615	MOCS1	541.9776084	-0.933722432	0.002596976
ENSG00000153162	BMP6	9.170950169	-0.933833864	0.453840006
ENSG00000286176	AC116317.1	7.32615044	-0.933987467	0.558922503
ENSG00000163964	PIGX	229.7187283	-0.934146031	0.001957626
ENSG00000188522	FAM83G	5259.330889	-0.934236474	2.25E-05
ENSG00000182732	RGS6	3.709087824	-0.934413827	0.695051839
ENSG00000230387	AL118508.1	15.24449754	-0.934488717	0.387614018
ENSG00000163110	PDLIM5	3063.654733	-0.934809283	0.00558097
ENSG00000175161	CADM2	30.1474499	-0.93514368	0.235037129
ENSG00000058272	PPP1R12A	2508.807331	-0.935362189	0.00014411
ENSG00000116793	PHTF1	144.3879588	-0.93587049	0.006937439
ENSG00000166323	C11orf65	12.91067444	-0.935890041	0.489622551
ENSG00000170681	CAVIN4	41.08649762	-0.935954412	0.153464763
ENSG00000184677	ZBTB40	3741.814617	-0.935996252	0.001848708
ENSG00000232284	GNG12-AS1	23.62277894	-0.936015586	0.189031548
ENSG00000155269	GPR78	1887.78872	-0.936120603	0.014489542
ENSG00000089220	PEBP1	9774.131684	-0.93621778	3.02E-07
ENSG00000167755	KLK6	98.55725498	-0.936689123	0.083520395
ENSG00000151006	PRSS53	7.583020546	-0.936834439	0.594111361
ENSG00000197321	SVIL	231.9303602	-0.937292919	0.008921564
ENSG00000236088	COX10-AS1	81.6029362	-0.937436735	0.024048802

ENSG00000272602	ZNF595	686.3986526	-0.93762716	3.64E-05
ENSG00000107779	BMPR1A	288.1563574	-0.937904403	0.000289182
ENSG00000149124	GLYAT	21.09541199	-0.938997055	0.252153634
ENSG00000197013	ZNF429	94.10954626	-0.939497152	0.016668193
ENSG00000189043	NDUFA4	1802.701203	-0.940034725	1.34E-06
ENSG00000161835	GRASP	33.13564027	-0.94004108	0.196433191
ENSG00000142046	TMEM91	14.54913688	-0.941684605	0.36343637
ENSG00000163913	IFT122	381.4909266	-0.941756686	0.000855911
ENSG00000165997	ARL5B	1165.716562	-0.942220831	0.000295598
ENSG00000259925	AC130456.2	4.14388551	-0.942451974	0.656536512
ENSG00000119314	PTBP3	4202.035303	-0.943018478	0.000764399
ENSG00000103044	HAS3	28.20062645	-0.943059311	0.190070801
ENSG00000175643	RMI2	1566.328721	-0.943207559	0.003333204
ENSG00000099219	ERMP1	1893.880008	-0.943254375	0.000403048
ENSG00000046604	DSG2	5334.156109	-0.943642061	0.001679484
ENSG00000186063	AIDA	537.750539	-0.943876388	3.82E-05
ENSG00000196081	ZNF724	53.51911806	-0.943933349	0.074123904
ENSG00000113658	SMAD5	661.1989661	-0.944328655	0.000111184
ENSG00000142552	RCN3	21.53710466	-0.944565216	0.230238628
ENSG00000260643	AC092718.3	15.54369739	-0.945050618	0.327444213
ENSG00000167323	STIM1	2382.595433	-0.945795049	0.004344687
ENSG00000273045	C2orf15	27.20453653	-0.945829175	0.239356595
ENSG00000283000	LINC02635	49.68476003	-0.946166577	0.151449108
ENSG00000151743	AMN1	25.50773851	-0.946175401	0.265951535

ENSG00000136928	GABBR2	19.13437004	-0.946436828	0.288528316
ENSG00000116852	KIF21B	39.83794193	-0.946624514	0.148512138
ENSG00000178234	GALNT11	845.4689516	-0.946680262	0.001896513
ENSG00000162976	SLC66A3	387.2910689	-0.946791063	0.00195776
ENSG00000173786	CNP	856.548156	-0.94693539	0.001194064
ENSG00000163513	TGFBR2	7347.489844	-0.948022348	0.002147674
ENSG00000197905	TEAD4	590.9649199	-0.94809331	1.25E-05
ENSG00000196284	SUPT3H	85.36164152	-0.94851388	0.011623795
ENSG00000174749	FAM241A	67.88790359	-0.948715185	0.035344972
ENSG00000082074	FYB1	2339.951563	-0.948860456	4.36E-06
ENSG00000141905	NFIC	150.6476245	-0.949059401	0.013839299
ENSG00000137486	ARRB1	3268.360871	-0.949348217	3.67E-06
ENSG00000228741	AL445985.1	123.3834382	-0.94977953	0.071082773
ENSG00000070190	DAPP1	371.1829716	-0.949985042	0.001431709
ENSG00000113163	CERT1	1361.163717	-0.950229553	0.00069013
ENSG00000114638	UPK1B	25.29298957	-0.95077421	0.204399636
ENSG00000114805	PLCH1	7.480271265	-0.951059113	0.49998554
ENSG00000163576	EFHB	8.218907741	-0.951127046	0.534691243
ENSG00000288255	AP001153.2	9.064486049	-0.95116172	0.621742876
ENSG00000131196	NFATC1	116.3151316	-0.951688583	0.016962627
ENSG00000273226	AL391834.2	5.837531244	-0.95220189	0.551752679
ENSG00000173207	CKS1B	3332.800251	-0.952599806	2.07E-08
ENSG00000272323	AC026801.2	10.22576235	-0.952613196	0.502346676
ENSG00000175793	SFN	1032.176966	-0.953356073	0.000176085

ENSG00000122359	ANXA11	3279.155436	-0.953457057	1.24E-06
ENSG00000255142	AP006621.2	8.438276127	-0.9535206	0.453035282
ENSG00000121988	ZRANB3	57.45940694	-0.95375042	0.114996041
ENSG00000230438	SERPINB9P1	21.03435516	-0.953783468	0.401019506
ENSG00000205464	ATP6AP1L	20.38033034	-0.954995866	0.223040091
ENSG00000099282	TSPAN15	674.4396982	-0.955355269	4.31E-05
ENSG00000102595	UGGT2	365.8298357	-0.955597813	0.000651979
ENSG00000100711	ZFYVE21	623.433684	-0.956265035	1.27E-05
ENSG00000281183	NPTN-IT1	8.279473607	-0.957218289	0.591073763
ENSG00000213707	HMGB1P10	15.46411276	-0.957251689	0.289392967
ENSG00000198887	SMC5	946.5847742	-0.957385603	0.001611318
ENSG00000150471	ADGRL3	1788.954323	-0.957548102	0.000584233
ENSG00000120093	HOXB3	16.75935764	-0.95771105	0.293149688
ENSG00000168140	VASN	144.1646888	-0.957830231	0.019887937
ENSG00000189120	SP6	30006.29797	-0.958012595	6.16E-05
ENSG00000281566	AL157778.1	19.51435639	-0.958242107	0.286870157
ENSG00000185753	CXorf38	424.7677563	-0.958315711	0.005894044
ENSG00000223749	MIR503HG	248.491786	-0.958336279	0.113624824
ENSG00000016391	CHDH	24.62621383	-0.95904845	0.237403387
ENSG00000166821	PEX11A	50.72580087	-0.959555063	0.052465726
ENSG00000089094	KDM2B	631.3407494	-0.959913264	5.70E-05
ENSG00000162714	ZNF496	316.0068948	-0.960013572	0.000171923
ENSG00000180628	PCGF5	105.1660023	-0.960237312	0.055852052
ENSG00000152104	PTPN14	4211.483331	-0.960335631	7.16E-05

ENSG00000064666	CNN2	1615.192625	-0.960583523	0.001542976
ENSG00000095203	EPB41L4B	450.7168136	-0.960592616	0.005476432
ENSG00000116251	RPL22	897.4460213	-0.96070624	1.93E-06
ENSG00000189423	USP32P3	104.054887	-0.961065606	0.014446894
ENSG00000229598	PRDX3P1	3.899943463	-0.961331106	0.696342605
ENSG00000166128	RAB8B	1635.72605	-0.961460128	0.000207332
ENSG00000158623	COPG2	1190.21824	-0.961825553	0.000678513
ENSG00000215039	CD27-AS1	4.802671683	-0.962021257	0.606053463
ENSG00000247903	AC024896.1	9.114651737	-0.962321724	0.493949263
ENSG00000175600	SUGCT	13.5756207	-0.962377901	0.388482545
ENSG00000136026	CKAP4	809.5291723	-0.963101668	0.000203699
ENSG00000183506	PI4KAP2	1757.466992	-0.963158557	0.004096443
ENSG00000108468	CBX1	2286.962036	-0.963486506	1.76E-07
ENSG00000160949	TONSL	906.1790521	-0.963541668	2.62E-05
ENSG00000163558	PRKCI	1197.508432	-0.963770498	2.24E-06
ENSG00000214106	PAXIP1-AS2	51.82354634	-0.964106356	0.080209778
ENSG00000150048	CLEC1A	4276.292255	-0.964316455	0.0013965
ENSG00000248429	FAM198B-AS1	54.50091773	-0.96458345	0.125646646
ENSG00000181227	DLSTP1	5.896909298	-0.965506489	0.592012936
ENSG00000103066	PLA2G15	801.8746276	-0.965834377	0.002723518
ENSG00000137310	TCF19	501.801401	-0.965883109	0.000250792
ENSG00000019144	PHLDB1	506.6615989	-0.966207427	0.001741558
ENSG00000161243	FBXO27	16.3355067	-0.966589747	0.434096659
ENSG00000007038	PRSS21	3.768830017	-0.967589568	0.707227156

ENSG00000168710	AHCYL1	7480.253369	-0.968202294	0.000684019
ENSG00000214711	CAPN14	85.29096101	-0.968335948	0.030963253
ENSG00000182613	OR2V2	2.29211858	-0.968415877	0.78509553
ENSG00000226125	LINC01907	7.294786441	-0.968553298	0.559520786
ENSG00000164105	SAP30	40.38890817	-0.969332097	0.179051929
ENSG00000100320	RBFOX2	851.9159029	-0.969576621	4.36E-06
ENSG00000196584	XRCC2	1026.914421	-0.969585698	2.12E-06
ENSG00000103202	NME4	197.0481892	-0.969692823	0.004503782
ENSG00000163257	DCAF16	571.5182811	-0.969732648	0.000451162
ENSG00000067177	PHKA1	342.3868838	-0.970545286	0.001447398
ENSG00000141682	PMAIP1	790.8477719	-0.970605432	0.000540124
ENSG00000170006	TMEM154	531.7443313	-0.971004867	0.000121779
ENSG00000185028	LRRC14B	4.750850008	-0.971030559	0.651294182
ENSG00000071205	ARHGAP10	651.0046024	-0.971304035	2.52E-05
ENSG00000008441	NFIX	26.4073508	-0.971341409	0.271144048
ENSG00000015479	MATR3	14.40973969	-0.971680924	0.377885719
ENSG00000048707	VPS13D	2500.843634	-0.971805283	0.018069011
ENSG00000153936	HS2ST1	422.2273739	-0.971808903	0.001434708
ENSG00000198542	ITGBL1	22.36194856	-0.972062792	0.227438777
ENSG00000253953	PCDHGB4	35.94046238	-0.972344366	0.114840076
ENSG00000172954	LCLAT1	301.2675183	-0.972618182	0.011052336
ENSG00000164989	CCDC171	112.5983212	-0.972664797	0.014282646
ENSG00000099814	CEP170B	2391.362669	-0.972721249	0.000358607
ENSG00000275496	CU633906.1	3.273721338	-0.972733693	0.733797222

ENSG00000137819	PAQR5	5.236976965	-0.972905464	0.545358274
ENSG00000029639	TFB1M	235.3777288	-0.972952735	0.003413131
ENSG00000198839	ZNF277	1732.724923	-0.973037751	4.02E-07
ENSG00000164904	ALDH7A1	2384.043972	-0.973619028	4.74E-07
ENSG00000075539	FRYL	850.0453863	-0.973819762	0.000205131
ENSG00000133704	IPO8	881.3268856	-0.973824564	5.42E-06
ENSG00000113761	ZNF346	162.5536791	-0.974533115	0.002979506
ENSG00000214944	ARHGEF28	82.33344747	-0.974986877	0.046099039
ENSG00000163820	FYCO1	1160.070954	-0.975435252	0.001106342
ENSG00000138386	NAB1	466.9166954	-0.975799235	0.000926273
ENSG00000110092	CCND1	258.276554	-0.975806011	0.022063641
ENSG00000228653	HNRNPCP7	3.938083371	-0.97589289	0.63587359
ENSG00000112759	SLC29A1	2255.588984	-0.975928801	2.01E-06
ENSG00000260077	AC104794.3	9.184954028	-0.976026414	0.428518123
ENSG00000138035	PNPT1	1000.557761	-0.976459335	2.24E-05
ENSG00000175536	LIPT2	46.67224608	-0.977148177	0.084475887
ENSG00000196335	STK31	6.898003764	-0.977176304	0.549781203
ENSG00000198961	PJA2	3197.957913	-0.977184489	0.000992194
ENSG00000128849	CGNL1	121.345203	-0.977190176	0.095757397
ENSG00000108244	KRT23	25492.26169	-0.977467473	0.000182258
ENSG00000242338	BMS1P4	8.461021748	-0.977553316	0.445139317
ENSG00000115085	ZAP70	2.621565796	-0.977849241	0.767993962
ENSG00000178385	PLEKHM3	267.9924066	-0.978005669	0.005760525
ENSG00000123685	BATF3	3.784825507	-0.978565664	0.661066508

ENSG00000134250	NOTCH2	751.096122	-0.978679094	0.00024622
ENSG00000072682	P4HA2	382.1591234	-0.979067272	0.000102159
ENSG00000134107	BHLHE40	11763.60952	-0.979085065	7.41E-06
ENSG00000137965	IFI44	9.113124845	-0.979185874	0.561610147
ENSG00000105649	RAB3A	49.49357115	-0.979292883	0.049244589
ENSG00000273461	AC105265.3	2.4766671	-0.980030468	0.747307836
ENSG00000114126	TFDP2	2142.196707	-0.980257542	6.23E-08
ENSG00000185156	MFSD6L	84.00553113	-0.980259188	0.040649647
ENSG00000143891	GALM	259.4341894	-0.9807971	0.001665514
ENSG00000203965	EFCAB7	35.36089902	-0.981382999	0.136585463
ENSG00000128422	KRT17	189.8013544	-0.981618941	0.063457648
ENSG00000213654	GPSM3	38.51508928	-0.98181756	0.180048586
ENSG00000139168	ZCRB1	551.1083732	-0.98189392	1.67E-05
ENSG00000169740	ZNF32	37.9822458	-0.981964092	0.139186361
ENSG00000230797	YY2	8.223695797	-0.982018604	0.526502534
ENSG00000115902	SLC1A4	934.1833749	-0.982094505	0.000822577
ENSG00000197857	ZNF44	127.019437	-0.982117879	0.005299165
ENSG00000280385	AP000648.4	12.97038951	-0.98214761	0.517278729
ENSG00000166450	PRTG	215.6759885	-0.982329849	0.0141185
ENSG00000135185	TMEM243	396.7624998	-0.982335831	0.002895989
ENSG00000140563	MCTP2	831.1497053	-0.982391084	0.008604848
ENSG00000133138	TBC1D8B	193.1325786	-0.982733832	0.020775146
ENSG00000112877	CEP72	318.5433816	-0.982913652	0.000266962
ENSG00000249816	LINC00964	4.111614314	-0.982952861	0.63980388

ENSG00000107854	TNKS2	4651.508285	-0.983303564	1.17E-05
ENSG00000287839	AL353807.5	37.23899234	-0.983473172	0.199609895
ENSG00000227001	NBPF2P	42.728726	-0.98376439	0.085788899
ENSG00000013297	CLDN11	8.079313731	-0.983996315	0.664875683
ENSG00000171873	ADRA1D	93.8886498	-0.984010666	0.052125824
ENSG00000182580	EPHB3	1196.778519	-0.984042777	0.003468378
ENSG00000178026	LRRC75B	13.71554547	-0.984051066	0.343652307
ENSG00000181588	MEX3D	424.381331	-0.98407601	4.48E-05
ENSG00000173272	MZT2A	186.4664235	-0.984357039	0.00133139
ENSG00000141040	ZNF287	8.429576159	-0.984412449	0.554523083
ENSG00000160007	ARHGAP35	80.83713847	-0.984569206	0.036133461
ENSG00000286640	AC093151.6	16.16724505	-0.984601507	0.356199419
ENSG00000135763	URB2	1007.614849	-0.984820166	0.000223857
ENSG00000139291	TMEM19	106.957691	-0.984989816	0.022383933
ENSG00000187325	TAF9B	374.5885672	-0.985333239	0.002123938
ENSG00000079819	EPB41L2	676.7476674	-0.985463431	3.04E-05
ENSG00000139880	CDH24	249.280204	-0.985529687	0.002184118
ENSG00000189362	NEMP2	119.6587853	-0.985899598	0.011596562
ENSG00000069275	NUCKS1	3356.714652	-0.986063594	8.91E-06
ENSG00000174514	MFSD4A	20.93800884	-0.98608317	0.241817689
ENSG00000081059	TCF7	94.25164636	-0.986446173	0.013928473
ENSG00000146966	DENND2A	114.5188815	-0.98663758	0.014081733
ENSG00000167553	TUBA1C	4894.793998	-0.986662081	5.45E-06
ENSG00000019549	SNAI2	24.12621624	-0.987409809	0.253762814

ENSG00000105707	HPN	32.83692703	-0.987482904	0.314857364
ENSG00000201772	SNORA5C	5.051728664	-0.987726445	0.566073609
ENSG00000187840	EIF4EBP1	1078.138259	-0.988306857	0.013278175
ENSG00000189057	FAM111B	97.47699704	-0.988384453	0.167051096
ENSG00000180370	PAK2	1942.501154	-0.988621832	3.96E-05
ENSG00000154122	ANKH	183.8875809	-0.988970569	0.001822703
ENSG00000150593	PDCD4	1859.336242	-0.989192606	0.018825055
ENSG00000123213	NLN	975.1358656	-0.98946126	8.39E-06
ENSG00000185272	RBM11	36.19912956	-0.989645667	0.08966036
ENSG00000100258	LMF2	682.3565889	-0.991031259	1.24E-06
ENSG00000143147	GPR161	13.38217847	-0.991049971	0.431638044
ENSG00000186446	ZNF501	9.24556124	-0.991087923	0.461865138
ENSG00000214279	SCART1	10.27723112	-0.991625447	0.383008153
ENSG00000263001	GTF2I	415.7809314	-0.991721115	3.94E-05
ENSG00000243479	MNX1-AS1	12.87394985	-0.991798976	0.446055822
ENSG00000237298	TTN-AS1	37.97348753	-0.992748113	0.150906447
ENSG00000276436	AL136301.1	2.801136401	-0.993349882	0.699955516
ENSG00000162664	ZNF326	1478.442837	-0.994522609	0.00022457
ENSG00000166415	WDR72	511.3715588	-0.994855013	0.024621852
ENSG00000185436	IFNLR1	140.0015586	-0.995079753	0.006193218
ENSG00000163359	COL6A3	38.71905025	-0.995116336	0.363624824
ENSG00000196209	SIRPB2	47.19814872	-0.995295557	0.238951167
ENSG00000105376	ICAM5	40.65653886	-0.996099167	0.091743623
ENSG00000111252	SH2B3	166.1784866	-0.99611783	0.020088078

ENSG00000147642	SYBU	30.33616745	-0.996201595	0.197391116
ENSG00000170734	POLH	899.0266729	-0.99621658	0.000187304
ENSG00000181004	BBS12	42.81305941	-0.996490116	0.085661727
ENSG00000224376	AC017104.1	2.98022131	-0.996537808	0.718376952
ENSG00000110880	CORO1C	7093.216336	-0.996565554	1.11E-08
ENSG00000112130	RNF8	183.7365471	-0.996814605	0.007316967
ENSG00000136002	ARHGEF4	281.6239945	-0.997441971	0.007381933
ENSG00000162946	DISC1	38.92520947	-0.998013478	0.196561343
ENSG00000198756	COLGALT2	3.983644973	-0.998132704	0.61626527
ENSG00000186106	ANKRD46	987.9290334	-0.99848801	0.000176085
ENSG00000123104	ITPR2	625.4689556	-0.998489051	0.00772322
ENSG00000163026	WDCP	222.5087268	-0.99878919	0.000393319
ENSG00000072501	SMC1A	5806.755748	-0.998905396	7.68E-07
ENSG00000168769	TET2	1305.234896	-0.999348741	2.84E-05
ENSG00000135824	RGS8	4.138232041	-0.99935907	0.644123988
ENSG00000102401	ARMCX3	1124.869527	-0.999879257	1.47E-05
ENSG00000187105	HEATR4	10.93577444	-0.999915417	0.386146479
ENSG00000131374	TBC1D5	763.9051315	-0.999947795	0.000334612
ENSG00000170537	TMC7	72.02503484	-1.000408948	0.067221992
ENSG00000186376	ZNF75D	197.9780466	-1.001320905	0.01441506
ENSG00000264964	AP001033.1	53.71563559	-1.001811782	0.063398254
ENSG00000133193	FAM104A	1742.523084	-1.002193333	3.79E-06
ENSG00000136828	RALGPS1	201.501056	-1.002416044	0.003799955
ENSG00000055118	KCNH2	118.3910345	-1.002907271	0.002018572

ENSG00000223652	AC106786.1	4.153617561	-1.003153679	0.629384636
ENSG00000075711	DLG1	971.1524961	-1.003288861	1.35E-06
ENSG00000271270	TMCC1-AS1	12.68316367	-1.004967612	0.472215914
ENSG00000189007	ADAT2	46.35693465	-1.005161968	0.070345224
ENSG00000066557	LRRC40	285.6450675	-1.005214437	0.001054214
ENSG00000144451	SPAG16	51.92914203	-1.005343024	0.068913918
ENSG00000249661	TNRC18P1	3.680709112	-1.00579828	0.636652668
ENSG00000198265	HELZ	646.6299794	-1.006021532	7.17E-05
ENSG00000157551	KCNJ15	18.27139477	-1.00602261	0.2773768
ENSG00000172244	C5orf34	51.93285288	-1.006069718	0.072512133
ENSG00000134899	ERCC5	48.87593375	-1.006124832	0.125872357
ENSG00000077274	CAPN6	19974.28243	-1.006251473	1.13E-07
ENSG00000166452	AKIP1	193.975551	-1.006455861	0.000412425
ENSG00000176834	VSIG10	981.7689489	-1.007464934	4.23E-06
ENSG00000273820	USP27X	417.8272269	-1.007472034	0.028008575
ENSG00000162337	LRP5	654.529296	-1.007700597	9.17E-05
ENSG00000256944	AP003721.3	17.68001402	-1.008009784	0.251085943
ENSG00000272872	AP000525.1	15.35390297	-1.008969908	0.368317901
ENSG00000123612	ACVR1C	4.156456681	-1.009023246	0.63066659
ENSG00000250266	LINC01612	11.55598567	-1.00902327	0.345498131
ENSG00000151882	CCL28	27.36958287	-1.009172361	0.184974613
ENSG00000226002	GTF2IP14	7.186072381	-1.011197413	0.556792161
ENSG00000099308	MAST3	77.81226706	-1.011375293	0.050151693
ENSG00000005448	WDR54	100.6257516	-1.011824393	0.006332084

ENSG00000215022	AL008729.1	3.003514221	-1.012128364	0.713487001
ENSG00000065989	PDE4A	83.29056833	-1.012355822	0.028705546
ENSG00000108055	SMC3	1677.759251	-1.012404424	2.99E-08
ENSG00000114268	PFKFB4	1118.993149	-1.013163091	0.000169552
ENSG00000257176	AC009318.1	9.26610593	-1.013166797	0.379310953
ENSG00000155100	OTUD6B	261.2789621	-1.013516921	0.000100313
ENSG00000214796	AC098934.1	134.4037014	-1.013901556	0.004861109
ENSG00000178053	MLF1	25.09380856	-1.013929805	0.204651132
ENSG00000144339	TMEFF2	4.179930303	-1.013949956	0.636171885
ENSG00000116273	PHF13	1488.206371	-1.013996314	5.48E-05
ENSG00000163755	HPS3	448.4158012	-1.014137746	4.59E-05
ENSG00000198589	LRBA	2215.886798	-1.014256468	0.001401369
ENSG00000173715	C11orf80	128.4876263	-1.0145629	0.002738251
ENSG00000153790	C7orf31	49.52853524	-1.014696738	0.089409749
ENSG00000128050	PAICS	4527.04975	-1.015248842	2.72E-08
ENSG00000105492	SIGLEC6	526.7803596	-1.015297401	0.00780825
ENSG00000177058	SLC38A9	5987.191528	-1.017067776	5.64E-05
ENSG00000029725	RABEP1	568.4717464	-1.017172458	0.000101442
ENSG00000108175	ZMIZ1	1043.860324	-1.017546809	2.55E-07
ENSG00000165091	TMC1	60.25594129	-1.017705191	0.028265293
ENSG00000101400	SNTA1	47.02490472	-1.019084221	0.065144832
ENSG00000167123	CERCAM	2433.766415	-1.019356609	5.95E-05
ENSG00000020256	ZFP64	212.0586596	-1.019666554	0.000562253
ENSG00000187118	CMC1	72.68975927	-1.019736377	0.017736167

ENSG00000104218	CSPP1	209.314228	-1.019886493	0.000888552
ENSG00000164074	ABHD18	437.7045136	-1.020716473	8.09E-05
ENSG00000148672	GLUD1	1682.685048	-1.020845071	5.22E-05
ENSG00000277595	AC007546.1	7.95436095	-1.020895474	0.481606951
ENSG00000236901	MIR600HG	41.79890577	-1.020999659	0.111421334
ENSG00000112559	MDFI	2872.02307	-1.021490413	1.71E-07
ENSG00000174327	SLC16A13	567.2861145	-1.021818464	0.000211605
ENSG00000244693	CTAGE8	3.858589091	-1.021990249	0.631225749
ENSG00000107736	CDH23	102.9916092	-1.022259049	0.004590961
ENSG00000120896	SORBS3	1388.669984	-1.02243056	7.37E-06
ENSG00000146414	SHPRH	104.3279209	-1.022826723	0.017878327
ENSG00000116171	SCP2	1516.90589	-1.02286276	1.68E-06
ENSG00000186318	BACE1	19.28356902	-1.022980065	0.247471253
ENSG00000196110	ZNF699	33.81970082	-1.023261202	0.203162073
ENSG00000126016	AMOT	2654.13656	-1.023341009	0.000117756
ENSG00000167136	ENDOG	25.69047487	-1.02339206	0.186514934
ENSG00000271828	AC008937.3	4.013176158	-1.023686543	0.680949994
ENSG00000162688	AGL	484.1445028	-1.023892829	0.000170653
ENSG00000168505	GBX2	21.5635463	-1.023920136	0.239002915
ENSG00000188290	HES4	186.5887714	-1.023999437	0.004388823
ENSG00000115641	FHL2	1184.072015	-1.024071259	6.33E-06
ENSG00000070669	ASNS	48.67197245	-1.024216146	0.174948915
ENSG00000137103	TMEM8B	42.92519036	-1.024572866	0.138864739
ENSG00000115318	LOXL3	52.57631576	-1.024996487	0.045337817

ENSG00000091527	CDV3	4555.427623	-1.025006067	7.27E-05
ENSG00000130508	PXDN	2732.323384	-1.025243223	0.000277826
ENSG00000283667	AC009802.1	2.347414675	-1.025496388	0.774514389
ENSG00000138735	PDE5A	15.27928088	-1.026592438	0.398851385
ENSG00000214562	NUTM2D	19.09831439	-1.026596505	0.223467575
ENSG00000245910	SNHG6	148.7892583	-1.026659988	0.001964612
ENSG00000189108	IL1RAPL2	3.269599678	-1.026834583	0.68162475
ENSG00000168214	RBPJ	1679.555672	-1.02693621	9.54E-05
ENSG00000266733	TBC1D29P	14.56886575	-1.027562831	0.38416061
ENSG00000172292	CERS6	6.243181591	-1.02771247	0.528347974
ENSG00000227252	AC012063.1	13.79499759	-1.027863419	0.291804667
ENSG00000101596	SMCHD1	2886.066648	-1.027902835	2.58E-05
ENSG00000239887	C1orf226	31.75053655	-1.028037956	0.191033526
ENSG00000146276	GABRR1	4.036164084	-1.028783718	0.671794475
ENSG00000136870	ZNF189	62.10671895	-1.028842926	0.047025077
ENSG00000091157	WDR7	121.0926645	-1.029621452	0.016193666
ENSG00000165424	ZCCHC24	16.70678682	-1.029853996	0.273320841
ENSG00000205959	AC105345.1	38.56422521	-1.029985453	0.065198802
ENSG00000188897	AC099489.1	5.499362263	-1.030151662	0.562581555
ENSG00000147231	RADX	854.005704	-1.030722112	9.60E-06
ENSG00000174370	C11orf45	43.83655829	-1.030982092	0.132180698
ENSG00000203907	OOEP	6.243424439	-1.03135104	0.554726859
ENSG00000157796	WDR19	111.9245135	-1.032085935	0.025051573
ENSG00000125520	SLC2A4RG	596.1787444	-1.032102458	0.001488002

ENSG00000153208	MERTK	281.1866314	-1.032308839	0.022063641
ENSG00000213876	RPL7AP64	13.79047417	-1.032656004	0.298693087
ENSG00000147065	MSN	304.0822855	-1.03275828	1.27E-05
ENSG00000111912	NCOA7	315.9824599	-1.033973988	0.038163496
ENSG00000270231	NBPF8	163.9008945	-1.034010941	0.001047993
ENSG00000117461	PIK3R3	153.6137248	-1.034095587	0.006159362
ENSG00000214336	FOXI3	3478.193355	-1.034472817	0.000210179
ENSG00000259129	LINC00648	15.2127191	-1.034505415	0.366649683
ENSG00000157077	ZFYVE9	329.7681955	-1.035026482	0.000346158
ENSG00000113273	ARSB	379.7897396	-1.035100851	1.18E-05
ENSG00000156869	FRRS1	1063.92785	-1.035250849	3.43E-05
ENSG00000153944	MSI2	615.8411671	-1.035677202	1.81E-06
ENSG00000132698	RAB25	1670.252244	-1.036004768	3.21E-06
ENSG00000232593	KANTR	115.4602185	-1.036135532	0.01893675
ENSG00000187516	HYPM	2.530605771	-1.036369274	0.729964287
ENSG00000143643	TTC13	175.8286992	-1.036761302	0.005948841
ENSG00000138131	LOXL4	27.93159102	-1.037471239	0.127355823
ENSG00000160991	ORAI2	151.4540515	-1.03760475	0.001839802
ENSG00000158517	NCF1	12.66178336	-1.038398286	0.428176623
ENSG00000150687	PRSS23	1468.157844	-1.03877251	0.000359714
ENSG00000240882	AC063952.2	5.576913921	-1.038900296	0.655385191
ENSG00000162591	MEGF6	9.474119306	-1.039282467	0.424665919
ENSG00000100578	KIAA0586	288.3587112	-1.03937853	0.0003557
ENSG00000121940	CLCC1	322.9652475	-1.039642209	1.50E-05

ENSG00000149476	TKFC	211.9345499	-1.039775567	0.001409619
ENSG00000147536	GINS4	354.601936	-1.039942866	0.000713615
ENSG00000105497	ZNF175	154.3957263	-1.039958144	0.000941747
ENSG00000187187	ZNF546	2.543762142	-1.040370553	0.689930946
ENSG00000196267	ZNF836	58.20291324	-1.040397583	0.06270344
ENSG00000109501	WFS1	5622.943313	-1.040494184	2.40E-08
ENSG00000248590	GLDCP1	11.34006104	-1.04091706	0.420304858
ENSG00000108179	PPIF	3517.359052	-1.041069153	6.69E-08
ENSG00000128607	KLHDC10	393.2892979	-1.041440952	0.005888716
ENSG00000170004	CHD3	1506.055028	-1.041941423	3.02E-07
ENSG00000120802	TMPO	1743.505603	-1.042517848	3.47E-07
ENSG00000069188	SDK2	1212.831537	-1.042519171	5.03E-07
ENSG00000155561	NUP205	3577.795514	-1.04260033	5.79E-07
ENSG00000156535	CD109	11.32928295	-1.042615795	0.383564985
ENSG00000145349	CAMK2D	546.8690591	-1.042772154	0.002622308
ENSG00000233928	AL591501.1	12.46932501	-1.042913991	0.355097412
ENSG00000263731	AC145207.5	19.55225511	-1.043011275	0.30571062
ENSG00000213722	DDAH2	575.8755207	-1.043187843	0.000274678
ENSG00000214517	PPME1	1342.557403	-1.043212619	1.66E-05
ENSG00000101624	CEP76	427.9718428	-1.043475555	5.81E-05
ENSG00000100321	SYNGR1	600.8593096	-1.043546496	1.24E-05
ENSG00000164038	SLC9B2	14.37509908	-1.043622744	0.282406391
ENSG00000270948	MTDHP1	2.29804943	-1.044041218	0.766823515
ENSG00000110455	ACCS	112.1436	-1.04424708	0.015677139

ENSG00000189308	LIN54	675.2195503	-1.044501179	1.23E-06
ENSG00000166619	BLCAP	4506.553432	-1.04469368	0.001426506
ENSG00000164975	SNAPC3	391.4547521	-1.044792906	0.000764337
ENSG00000166681	BEX3	2605.067285	-1.044937809	9.84E-09
ENSG00000121653	MAPK8IP1	343.8627694	-1.045201118	0.001199494
ENSG00000057935	MTA3	3025.016652	-1.04696096	5.34E-08
ENSG00000088826	SMOX	1276.875425	-1.0473403	3.10E-06
ENSG00000112394	SLC16A10	9.177930139	-1.047476514	0.466474662
ENSG00000196396	PTPN1	2841.497209	-1.047495157	8.70E-08
ENSG00000170430	MGMT	82.9755233	-1.047533068	0.02746183
ENSG00000142765	SYTL1	212.2036689	-1.047795609	0.000574199
ENSG00000176890	TYMS	590.898791	-1.048795149	7.30E-07
ENSG00000206195	DUXAP8	84.30768271	-1.049240977	0.022767585
ENSG00000092010	PSME1	1634.815606	-1.049392453	8.80E-07
ENSG00000205838	TTC23L	8.306158446	-1.049566075	0.515186039
ENSG00000162878	PKDCC	16.94706953	-1.049613361	0.26710401
ENSG00000182287	AP1S2	44.2255057	-1.049984828	0.079129212
ENSG00000168301	KCTD6	236.2781173	-1.050051696	0.014773404
ENSG00000247809	NR2F2-AS1	14.88257697	-1.050137315	0.304566127
ENSG00000241404	EGFL8	16.9377911	-1.050348327	0.313667288
ENSG00000139117	CPNE8	175.3561307	-1.050377434	0.003555539
ENSG00000165474	GJB2	12.5855551	-1.050982754	0.384512975
ENSG00000134318	ROCK2	2503.109777	-1.051492588	2.61E-07
ENSG00000160360	GPSM1	204.8285907	-1.051637268	0.000954706

ENSG00000227507	LTB	5.541122662	-1.051738343	0.594111361
ENSG00000197702	PARVA	1405.82958	-1.051743157	2.31E-05
ENSG00000166938	DIS3L	351.0549949	-1.051762783	3.66E-05
ENSG00000075651	PLD1	330.3280624	-1.051832279	1.30E-05
ENSG00000169758	TMEM266	18.8997545	-1.051873327	0.252265231
ENSG00000166352	C11orf74	30.7621844	-1.052143108	0.115454854
ENSG00000164506	STXBP5	441.3139755	-1.052229089	0.000979641
ENSG00000136237	RAPGEF5	12.07143409	-1.052449649	0.304603152
ENSG00000240160	RN7SL263P	12.83602821	-1.052477603	0.386430022
ENSG00000160145	KALRN	3040.599686	-1.052674221	0.000260057
ENSG00000196476	C20orf96	16.7305694	-1.053533467	0.265209691
ENSG00000160293	VAV2	596.4889109	-1.053833016	0.000905814
ENSG00000259768	AC004943.2	70.69222701	-1.053858007	0.023865526
ENSG00000197256	KANK2	341.6537575	-1.053875342	0.001142344
ENSG00000129003	VPS13C	420.9137161	-1.054153547	0.000565916
ENSG00000101017	CD40	25.69534933	-1.054612606	0.262695342
ENSG00000148057	IDNK	25.49933218	-1.054657425	0.150842876
ENSG00000025156	HSF2	168.174456	-1.054868608	0.003666732
ENSG00000142182	DNMT3L	8.766652196	-1.055290031	0.384078663
ENSG00000121864	ZNF639	159.0435109	-1.055832302	0.000764399
ENSG00000143190	POU2F1	2133.272415	-1.056165524	0.001162577
ENSG00000242715	CCDC169	46.40203387	-1.056421183	0.086535093
ENSG00000243701	DUBR	143.8087183	-1.056462401	0.019486799
ENSG00000145868	FBXO38	813.5432795	-1.057054856	0.000176066

ENSG00000219626	FAM228B	6.144139791	-1.057232588	0.510617213
ENSG00000184454	NCMAP	292.5937899	-1.05853886	0.001512762
ENSG00000218350	LYPLA1P3	9.051619392	-1.058601746	0.498831331
ENSG00000242732	RTL5	41.76204379	-1.058655523	0.210822386
ENSG00000168297	PXK	355.3194717	-1.059059096	0.000102159
ENSG00000272328	AC007128.2	10.59574687	-1.060285895	0.347133271
ENSG00000127329	PTPRB	6.329722221	-1.060754417	0.563571264
ENSG00000184371	CSF1	44.96945755	-1.061401304	0.080543472
ENSG00000158234	FAIM	266.6940327	-1.061420725	0.0027079
ENSG00000165572	KBTBD6	400.5734277	-1.061517482	0.258012671
ENSG00000070756	PABPC1	125576.0605	-1.06161656	1.41E-06
ENSG00000140025	EFCAB11	128.9955569	-1.061681897	0.001378708
ENSG00000189223	PAX8-AS1	520.8187983	-1.062849938	0.000846362
ENSG00000204623	ZNRD1ASP	16.4946251	-1.062864624	0.28904819
ENSG00000136111	TBC1D4	218.5646624	-1.063006107	0.001131784
ENSG00000163545	NUAK2	1274.059002	-1.063125287	3.96E-06
ENSG00000116750	UCHL5	851.3571859	-1.063319753	1.48E-07
ENSG00000142208	AKT1	2696.106736	-1.063555102	1.19E-06
ENSG00000255666	LINC02700	11.66218761	-1.064139102	0.371549273
ENSG00000100941	PNN	2570.525963	-1.064372711	2.76E-05
ENSG00000286380	AC084864.2	3.764715607	-1.064436723	0.694779318
ENSG00000224738	AC099850.1	22.84024864	-1.064542441	0.209891801
ENSG00000026652	AGPAT4	69.38627832	-1.065313891	0.014770986
ENSG00000196440	ARMCX4	13.83785466	-1.065424163	0.286640045

ENSG00000171224	FAM241B	94.98449077	-1.065446016	0.01821987
ENSG00000135069	PSAT1	2528.13597	-1.065648621	0.022156724
ENSG00000146112	PPP1R18	1122.911797	-1.065658681	3.43E-05
ENSG00000164176	EDIL3	6.236827797	-1.065753594	0.492318718
ENSG00000259583	AC015712.2	20.96834306	-1.066121119	0.30901209
ENSG00000196369	SRGAP2B	127.9844978	-1.06692425	0.030511641
ENSG00000168917	SLC35G2	18.96893345	-1.067201447	0.238421154
ENSG00000198521	ZNF43	251.5039856	-1.067542396	0.000609182
ENSG00000189045	ANKDD1B	93.3642006	-1.067974129	0.040641028
ENSG00000132600	PRMT7	1151.087267	-1.068051382	4.94E-05
ENSG00000231789	PIK3CD-AS2	11.11363416	-1.06906583	0.379903553
ENSG00000081320	STK17B	513.2284251	-1.069894261	5.65E-05
ENSG00000236975	LINC02814	23.00612862	-1.070252884	0.143355631
ENSG00000103064	SLC7A6	1201.311439	-1.070434326	0.001403825
ENSG00000079308	TNS1	47.19397895	-1.070588784	0.121249709
ENSG00000136574	GATA4	28.65420985	-1.070777735	0.098838736
ENSG00000137414	FAM8A1	730.8784694	-1.072212166	5.08E-05
ENSG00000100065	CARD10	536.1133081	-1.072506987	1.33E-05
ENSG00000122035	RASL11A	130.0470269	-1.072774267	0.001624462
ENSG00000259287	AC010809.1	3.509936695	-1.07298805	0.60708628
ENSG00000104067	TJP1	2031.169776	-1.073033004	1.94E-07
ENSG00000251136	AF117829.1	234.0550013	-1.073250286	7.01E-05
ENSG00000162613	FUBP1	2695.540756	-1.073771918	3.25E-08
ENSG00000103876	FAH	243.1473589	-1.073909336	0.000789032

ENSG00000100346	CACNA1I	3.963535072	-1.074250427	0.689392831
ENSG00000072195	SPEG	99.69837466	-1.074385312	0.029767722
ENSG00000173611	SCAI	99.64870786	-1.074697416	0.009337942
ENSG00000179627	ZBTB42	108.45868	-1.075370643	0.013094378
ENSG00000091622	PITPNM3	5.506407687	-1.075431686	0.536925665
ENSG00000134686	PHC2	1393.506245	-1.07568115	3.74E-08
ENSG00000158292	GPR153	48.88817805	-1.075690373	0.126323249
ENSG00000204178	MACO1	256.082056	-1.075721927	0.000348516
ENSG00000107902	LHPP	229.7462662	-1.075831566	0.000992785
ENSG00000119698	PPP4R4	4.120475564	-1.076504029	0.709930579
ENSG00000158747	NBL1	102.5589042	-1.076615944	0.013631805
ENSG00000125730	C3	247.8796537	-1.076787911	0.073779618
ENSG00000204592	HLA-E	4329.187924	-1.077107965	2.13E-06
ENSG00000257275	AL139020.1	13.39962633	-1.077530586	0.374900855
ENSG00000080546	SESN1	1689.861472	-1.077665077	7.76E-07
ENSG00000196950	SLC39A10	6513.796664	-1.078047256	5.55E-06
ENSG00000198948	MFAP3L	4.820019811	-1.078215693	0.533206441
ENSG00000138780	GSTCD	400.717844	-1.078328108	0.000151844
ENSG00000060491	OGFR	1155.454116	-1.07896816	0.001749713
ENSG00000128335	APOL2	807.3935229	-1.079015628	1.22E-05
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ENSG00000189143	CLDN4	12354.68438	-1.079697088	1.51E-07
ENSG00000158270	COLEC12	860.5610755	-1.07987365	0.000436599
ENSG00000140391	TSPAN3	1365.097822	-1.080158819	7.08E-06

ENSG00000197603	CPLANE1	157.9225995	-1.080781544	0.001222141
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ENSG00000112851	ERBIN	2317.574271	-1.081002838	2.76E-06
ENSG00000203362	POLH-AS1	80.37482408	-1.081125485	0.038755259
ENSG00000163357	DCST1	7.914560173	-1.081592648	0.490568851
ENSG00000100147	CCDC134	133.7057921	-1.081621281	0.005488152
ENSG00000133858	ZFC3H1	986.2390106	-1.082087777	0.000328612
ENSG00000167315	ACAA2	1071.377212	-1.082164521	3.48E-06
ENSG00000104643	MTMR9	96.9689535	-1.08224426	0.006964525
ENSG00000163006	CCDC138	104.1797655	-1.082603975	0.008228309
ENSG00000240522	RPL7AP10	3.968263432	-1.082799569	0.613042968
ENSG00000137145	DENND4C	892.4073943	-1.082948592	4.46E-05
ENSG00000161692	DBF4B	421.2561399	-1.083387898	7.18E-06
ENSG00000090924	PLEKHG2	279.1763641	-1.084033732	5.65E-05
ENSG00000136874	STX17	607.1035029	-1.084436421	5.58E-07
ENSG00000188747	NOXA1	7.435434961	-1.084544677	0.446791435
ENSG00000129353	SLC44A2	9244.584125	-1.085635538	1.59E-06
ENSG00000005187	ACSM3	13.8971117	-1.085880156	0.390182288
ENSG00000168005	SPINDOC	248.160612	-1.086258902	0.000333637
ENSG00000273448	AC006480.2	3.977375752	-1.086313047	0.600887093
ENSG00000179855	GIPC3	2.598921761	-1.086539859	0.708177162
ENSG00000102349	KLF8	323.5251028	-1.086594357	0.000183969
ENSG00000178445	GLDC	7531.73153	-1.086692315	2.13E-06
ENSG00000112029	FBXO5	186.5395258	-1.086760575	0.000415297

ENSG00000170779	CDCA4	631.3592226	-1.08727676	1.80E-06
ENSG00000259330	INAFM2	299.2169786	-1.087530389	0.000713687
ENSG00000151461	UPF2	1955.75897	-1.08784488	0.00025409
ENSG00000159871	LYPD5	750.3483898	-1.087870208	5.31E-07
ENSG00000226755	VPS25P1	10.22977703	-1.087893128	0.450975418
ENSG00000132970	WASF3	3.539026419	-1.087952397	0.606367614
ENSG00000091262	ABCC6	31.48536179	-1.088130311	0.12092064
ENSG00000035664	DAPK2	3.211378088	-1.088442914	0.66201068
ENSG00000223546	LINC00630	93.8625354	-1.088768419	0.013739668
ENSG00000239149	SNORA59A	10.01766622	-1.08925647	0.452318153
ENSG00000100479	POLE2	457.0384367	-1.08966836	1.45E-06
ENSG00000128039	SRD5A3	84.38158862	-1.09043743	0.007199655
ENSG00000162729	IGSF8	4068.962282	-1.092362379	2.15E-08
ENSG00000197165	SULT1A2	6.667451376	-1.092609157	0.58820224
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ENSG00000108578	BLMH	742.7240522	-1.092895962	2.22E-05
ENSG00000125629	INSIG2	439.0325921	-1.092965007	1.94E-06
ENSG00000162694	EXTL2	713.42349	-1.093235528	2.09E-07
ENSG00000143156	NME7	47.73093227	-1.093477533	0.1205214
ENSG00000162341	TPCN2	104.7499962	-1.093540371	0.002493346
ENSG00000189366	ALG1L	13.91302426	-1.094801657	0.356836536
ENSG00000258484	SPESP1	4.874086748	-1.095050282	0.614216001
ENSG00000120899	PTK2B	252.7754798	-1.095634507	0.000859658
ENSG00000149639	SOGA1	186.9259634	-1.095686126	0.00013505

ENSG00000164048	ZNF589	211.8174981	-1.096121885	0.00115453
ENSG00000135486	HNRNPA1	31724.82941	-1.096166685	1.34E-09
ENSG00000203414	BTBD7P1	9.574361795	-1.096251318	0.424798795
ENSG00000126709	IFI6	18299.27275	-1.096293985	3.82E-06
ENSG00000146233	CYP39A1	5.0990091	-1.097089333	0.549552009
ENSG00000100596	SPTLC2	484.0473018	-1.0972871	2.94E-05
ENSG00000185090	MANEAL	114.1943745	-1.09776573	0.009421091
ENSG00000250742	LINC02381	4.012405474	-1.097918063	0.562409874
ENSG00000049323	LTBP1	872.80312	-1.098263614	9.33E-07
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ENSG00000244161	FLNB-AS1	29.37986038	-1.098550989	0.148986403
ENSG00000099338	CATSPERG	21.41701806	-1.098565542	0.260500167
ENSG00000100097	LGALS1	1536.404728	-1.099156793	0.000190772
ENSG00000112139	MDGA1	9.925959752	-1.099192226	0.43523719
ENSG00000182704	TSKU	364.0975496	-1.099953336	1.32E-06
ENSG00000113231	PDE8B	13.59357861	-1.100617021	0.253093427
ENSG00000185338	SOCS1	469.6232659	-1.10102836	0.001964908
ENSG00000132481	TRIM47	13.68130472	-1.101207428	0.252261498
ENSG00000074266	EED	1207.521906	-1.101272411	0.000229697
ENSG00000162437	RAVER2	25.29872333	-1.1013133	0.148869126
ENSG00000008294	SPAG9	12394.76147	-1.102237443	8.03E-07
ENSG00000188211	NCR3LG1	18.42901748	-1.102376928	0.239240568
ENSG00000099984	GSTT2	3.758847509	-1.102498061	0.684982264
ENSG00000106105	GARS	6580.532971	-1.103702897	3.98E-06

ENSG00000102316	MAGED2	2333.098657	-1.104146977	1.06E-09
ENSG00000005961	ITGA2B	86.60915134	-1.104186394	0.026086436
ENSG00000108771	DHX58	22.71899939	-1.104534053	0.164572354
ENSG00000167196	FBXO22	1387.404136	-1.104893332	1.61E-05
ENSG00000187091	PLCD1	253.6853211	-1.10607121	0.000210365
ENSG00000148426	PROSER2	197.1067461	-1.10617456	3.98E-05
ENSG00000144354	CDCA7	1053.078985	-1.106687009	3.76E-06
ENSG00000116984	MTR	499.9016371	-1.107464704	0.001378751
ENSG00000097046	CDC7	137.9427767	-1.107950784	0.000454069
ENSG00000251538	LINC02201	2.78995811	-1.108910038	0.729980241
ENSG00000256751	PLBD1-AS1	34.70822706	-1.109319631	0.122365016
ENSG00000119681	LTBP2	43.12172568	-1.10987192	0.221095769
ENSG00000157111	TMEM171	8.581725892	-1.109955108	0.491054393
ENSG00000073150	PANX2	186.0866372	-1.110024158	0.003521471
ENSG00000213928	IRF9	95.23724826	-1.110222251	0.043713906
ENSG00000234390	USP27X-AS1	23.63540032	-1.110822775	0.149360775
ENSG00000168310	IRF2	168.032758	-1.111617514	0.000434956
ENSG00000149328	GLB1L2	327.3392847	-1.112862248	0.000678915
ENSG00000078579	FGF20	4.891249259	-1.112869157	0.499065278
ENSG00000103365	GGA2	962.5179754	-1.113376396	4.95E-05
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ENSG00000187079	TEAD1	4082.887168	-1.113923455	4.25E-07
ENSG00000150637	CD226	17.19544277	-1.11413081	0.403123465
ENSG00000264057	AC103810.1	2.810897597	-1.114149523	0.70383051

ENSG00000277459	AP001527.2	5.758536945	-1.114631811	0.501291402
ENSG00000241360	PDXP	4.047920892	-1.115176302	0.598418987
ENSG00000092036	HAUS4	288.1779402	-1.115980596	0.000853114
ENSG00000167333	TRIM68	163.6585344	-1.116085577	0.002242496
ENSG00000108679	LGALS3BP	2935.463915	-1.116164043	0.003217237
ENSG00000183150	GPR19	6.691759359	-1.116220582	0.438262396
ENSG00000213096	ZNF254	286.0165146	-1.116371432	0.000177588
ENSG00000250616	AC012645.1	6.383166049	-1.116495557	0.534714337
ENSG00000146373	RNF217	298.4747942	-1.116568441	0.000921098
ENSG00000163121	NEURL3	13.64361352	-1.116579464	0.404905282
ENSG00000166394	CYB5R2	501.7120816	-1.116869347	0.000135812
ENSG00000117010	ZNF684	15.0890665	-1.11696188	0.232206735
ENSG00000168411	RFWD3	1328.005206	-1.116972345	1.31E-07
ENSG00000163617	CCDC191	5.454978912	-1.117527436	0.472550907
ENSG00000121741	ZMYM2	684.1117227	-1.118058641	4.87E-05
ENSG00000273186	AL359091.5	13.70681131	-1.118301207	0.244503312
ENSG00000175130	MARCKSL1	215.41066	-1.118525633	0.009684567
ENSG00000145375	SPATA5	216.9556344	-1.118898058	0.001284343
ENSG00000168172	HOOK3	2068.975268	-1.119824952	0.000335403
ENSG00000092964	DPYSL2	491.7227873	-1.119980746	6.93E-06
ENSG00000179277	MEIS3P1	12.63181279	-1.12007892	0.337017776
ENSG00000197601	FAR1	705.4013948	-1.120151531	1.02E-06
ENSG00000117280	RAB29	145.7495023	-1.120494581	0.003597278
ENSG00000239264	TXNDC5	9.738680914	-1.120647866	0.332823292

ENSG00000151914	DST	2174.257926	-1.121682832	1.51E-05
ENSG00000260000	AL133338.1	4.379902242	-1.121779699	0.595542495
ENSG00000092421	SEMA6A	4608.461729	-1.121887755	0.000228405
ENSG00000163923	RPL39L	648.1303736	-1.121970598	1.94E-07
ENSG00000101639	CEP192	453.0998811	-1.122888659	2.53E-06
ENSG00000278558	TMEM191B	142.4724493	-1.123090814	0.003666732
ENSG00000100889	PCK2	1243.87433	-1.123293474	0.003317704
ENSG00000090776	EFNB1	150.8952291	-1.123645989	0.002899693
ENSG00000105143	SLC1A6	24.65460975	-1.123950959	0.128761418
ENSG00000109323	MANBA	626.9848034	-1.124175052	1.08E-06
ENSG00000015532	XYLT2	483.2269041	-1.124388846	0.000735715
ENSG00000150457	LATS2	2437.295606	-1.125140716	1.01E-05
ENSG00000198467	TPM2	119.9155909	-1.125183479	0.024476275
ENSG00000285679	AC079142.1	3.886415728	-1.125210938	0.6042975
ENSG00000143753	DEGS1	1049.947803	-1.12532343	5.19E-08
ENSG00000127903	ZNF835	17.74886747	-1.125517298	0.227846078
ENSG00000121578	B4GALT4	1282.513148	-1.12551849	3.83E-07
ENSG00000256235	SMIM3	109.1721154	-1.125878948	0.00795126
ENSG00000060762	MPC1	160.9348383	-1.126614699	0.003712995
ENSG00000164754	RAD21	3937.546755	-1.126945729	2.24E-07
ENSG00000139324	TMTC3	1356.18106	-1.128205091	2.11E-06
ENSG00000184060	ADAP2	306.3164706	-1.128347955	3.03E-06
ENSG00000031691	CENPQ	317.2500507	-1.128670891	4.91E-05
ENSG00000161267	BDH1	126.1010547	-1.129285295	0.002239665

ENSG00000149179	C11orf49	201.8424718	-1.129927333	0.00086426
ENSG00000096696	DSP	9290.027259	-1.130249967	2.04E-05
ENSG00000269887	AL391001.1	6.418441673	-1.13046166	0.662870448
ENSG00000048140	TSPAN17	337.5234925	-1.130592275	5.17E-05
ENSG00000229111	MED4-AS1	5.269215771	-1.130879347	0.53637862
ENSG00000125775	SDCBP2	56.36034819	-1.130939915	0.179640658
ENSG00000234964	FABP5P7	6.592455258	-1.131098943	0.448213688
ENSG00000157216	SSBP3	672.7172442	-1.13110437	6.60E-06
ENSG00000188033	ZNF490	24.31352584	-1.131386483	0.168471015
ENSG00000204852	TCTN1	118.0768825	-1.131512574	0.00734779
ENSG00000167552	TUBA1A	212.8350365	-1.131725794	0.018991851
ENSG00000087206	UIMC1	253.9579704	-1.131834609	0.000262502
ENSG00000166448	TMEM130	25.6512606	-1.131875096	0.156142576
ENSG00000198857	HSD3BP5	109.2083881	-1.132037965	0.00802876
ENSG00000171700	RGS19	102.0388228	-1.132169267	0.009640826
ENSG00000130158	DOCK6	218.5656597	-1.132770706	0.001345531
ENSG00000163817	SLC6A20	12.50728395	-1.13279351	0.301854602
ENSG00000134824	FADS2	8205.618073	-1.133106709	9.70E-05
ENSG00000080200	CRYBG3	119.3186916	-1.134110055	0.005422484
ENSG00000135916	ITM2C	864.6301969	-1.134247616	9.92E-06
ENSG00000163584	RPL22L1	539.3255357	-1.13469459	4.19E-05
ENSG00000110237	ARHGEF17	973.8535688	-1.13480939	8.73E-06
ENSG00000213186	TRIM59	299.4806566	-1.135261924	0.000174495
ENSG00000185305	ARL15	276.866191	-1.135542739	0.000181411

ENSG00000238220	AP000275.1	2.661281736	-1.136274056	0.662335678
ENSG00000116962	NID1	1662.986061	-1.136748956	1.41E-05
ENSG00000130598	TNNI2	6.118952855	-1.136889645	0.621735748
ENSG00000138468	SENP7	99.48931354	-1.137014198	0.008668176
ENSG00000137674	MMP20	10.59292296	-1.137774732	0.332401
ENSG00000159212	CLIC6	8.339397244	-1.137987322	0.400023448
ENSG00000172345	STARD5	52.46500836	-1.138037612	0.024494278
ENSG00000233421	LINC01783	3.739916761	-1.13823715	0.63515382
ENSG00000174950	CD164L2	4.578964555	-1.138299692	0.554284193
ENSG00000172828	CES3	4.083725278	-1.138359011	0.589643377
ENSG00000035403	VCL	7481.462594	-1.138523762	6.14E-05
ENSG00000168792	ABHD15	73.14606339	-1.138673193	0.060227191
ENSG00000167106	FAM102A	5388.009191	-1.138846015	3.97E-05
ENSG00000215375	MYL5	114.2321607	-1.138911522	0.00432485
ENSG00000261371	PECAM1	57.32053511	-1.139726683	0.030303664
ENSG00000248874	C5orf17	22.9513374	-1.139760441	0.160489091
ENSG00000006625	GGCT	546.524664	-1.139794819	1.71E-06
ENSG00000254560	BBOX1-AS1	20.04180249	-1.139817584	0.173844212
ENSG00000250564	AC109454.3	12.92906768	-1.13997193	0.313812399
ENSG00000016402	IL20RA	6.927333091	-1.140043292	0.444764005
ENSG00000168646	AXIN2	1394.069153	-1.140131268	0.000249433
ENSG00000145996	CDKAL1	280.8876575	-1.140516943	8.25E-06
ENSG00000248643	RBM14-RBM4	5.075826923	-1.140826011	0.581812285
ENSG00000140382	HMG20A	547.0232582	-1.14127741	2.07E-06

ENSG00000096092	TMEM14A	107.5002149	-1.141314742	0.015580025
ENSG00000104490	NCALD	126.7183249	-1.141704304	0.005312317
ENSG00000137802	MAPKBP1	1501.927952	-1.141801872	1.16E-05
ENSG00000170921	TANC2	1458.069415	-1.142022732	3.95E-05
ENSG00000089902	RCOR1	4862.608942	-1.142095349	3.55E-07
ENSG00000166912	MTMR10	2125.83093	-1.14220712	1.10E-05
ENSG00000173295	FAM86B3P	10.45507392	-1.142705798	0.394274319
ENSG00000103540	CCP110	368.3924923	-1.142713233	1.88E-05
ENSG00000163431	LMOD1	21.82828999	-1.142828743	0.222694938
ENSG00000233123	LINC01007	6.595793201	-1.14297268	0.466612154
ENSG00000182782	HCAR2	29.50587573	-1.143210434	0.127352111
ENSG00000167543	TP53I13	218.8054606	-1.144276715	0.001823901
ENSG00000277232	GTSE1-DT	12.10582536	-1.144636949	0.319197071
ENSG00000273136	NBPF26	222.9369038	-1.145314618	0.000888038
ENSG00000203799	CCDC162P	53.45004257	-1.145344632	0.030897231
ENSG00000138587	MNS1	6.786767414	-1.146047615	0.413137303
ENSG00000205609	EIF3CL	194.6900745	-1.146091748	0.000479149
ENSG00000128487	SPECC1	530.2610049	-1.146402048	1.74E-05
ENSG00000144596	GRIP2	9.28777164	-1.146927554	0.415619282
ENSG00000127564	PKMYT1	1075.725675	-1.14712351	4.26E-05
ENSG00000171467	ZNF318	190.3433715	-1.147264495	0.000839328
ENSG00000187653	TMSB4XP8	4.186808688	-1.147290575	0.551349075
ENSG00000109756	RAPGEF2	1311.72871	-1.147362995	8.38E-05
ENSG00000198805	PNP	2223.474568	-1.147460374	3.07E-07

ENSG00000155099	PIP4P2	81.57105389	-1.147962153	0.024242976
ENSG00000134698	AGO4	374.337652	-1.148273668	0.00679576
ENSG00000171992	SYNPO	3392.353908	-1.148642277	9.02E-05
ENSG00000240376	AC010343.1	5.683086715	-1.148712493	0.500286311
ENSG00000140464	PML	830.0382958	-1.148791718	1.26E-08
ENSG00000160219	GAB3	4.263115172	-1.148918365	0.542047964
ENSG00000120915	EPHX2	7.653388692	-1.148998494	0.430316795
ENSG00000022267	FHL1	81.76734124	-1.149141635	0.019180181
ENSG00000102034	ELF4	996.6164444	-1.149206238	4.78E-05
ENSG00000102699	PARP4	682.7698823	-1.149704584	3.29E-06
ENSG00000075239	ACAT1	341.8154909	-1.149766157	4.95E-06
ENSG00000151150	ANK3	523.8428499	-1.149800433	8.45E-05
ENSG00000174827	PDZK1	6.964268068	-1.150508207	0.454094196
ENSG00000235098	ANKRD65	251.2463576	-1.150848362	0.000447271
ENSG00000135605	TEC	36.91618853	-1.15132774	0.206158344
ENSG00000076356	PLXNA2	1611.239204	-1.151600392	9.04E-06
ENSG00000144724	PTPRG	43.85942381	-1.151642702	0.024023773
ENSG00000134313	KIDINS220	1190.215665	-1.153285458	1.72E-06
ENSG00000204934	ATP6V0E2-AS1	3.76852079	-1.153715014	0.634029663
ENSG00000100139	MICALL1	7439.581189	-1.154275863	1.11E-07
ENSG00000065911	MTHFD2	1869.984277	-1.155068766	0.002789363
ENSG00000170290	SLN	56.44355208	-1.155175547	0.077569093
ENSG00000169836	TACR3	2.855814303	-1.155400382	0.635150861
ENSG00000109436	TBC1D9	1893.71887	-1.155500788	0.00200944

ENSG00000196418	ZNF124	35.28865364	-1.155661919	0.086031599
ENSG00000168306	ACOX2	2.860882573	-1.155817876	0.690755181
ENSG00000145604	SKP2	9631.671083	-1.155972438	1.94E-09
ENSG00000267265	AC011476.3	67.29688895	-1.156817963	0.016154154
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ENSG00000152990	ADGRA3	716.0239738	-1.156910546	0.000207644
ENSG00000107882	SUFU	218.2261446	-1.156920532	3.97E-05
ENSG00000004700	RECQL	329.1369892	-1.157965406	0.001654742
ENSG00000157557	ETS2	1100.926814	-1.158175693	0.000161262
ENSG00000128581	IFT22	80.73848731	-1.15820217	0.019703729
ENSG00000109255	NMU	2.861368269	-1.158957572	0.634002168
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ENSG00000151364	KCTD14	73.48148373	-1.159912878	0.015296874
ENSG00000112837	TBX18	63.70904543	-1.159916353	0.006064747
ENSG00000169710	FASN	8582.006285	-1.160474055	0.003205212
ENSG00000160284	SPATC1L	4.289427913	-1.16071816	0.522341032
ENSG00000205592	MUC19	25.78035629	-1.16082752	0.208161829
ENSG00000112715	VEGFA	2585.403541	-1.161013255	9.06E-06
ENSG00000269737	AL691432.1	10.00546769	-1.161051688	0.367476899
ENSG00000137135	ARHGEF39	176.612016	-1.161674057	5.04E-05
ENSG00000176732	PFN4	4.137374981	-1.161782982	0.561651507
ENSG00000079931	MOXD1	51.13069532	-1.161836801	0.025999831
ENSG00000189051	RNF222	66.00074874	-1.16212973	0.085785029
ENSG00000154358	OBSCN	106.0553051	-1.162375395	0.002281704

ENSG00000154917	RAB6B	166.9961445	-1.162917954	0.003668111
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ENSG00000076716	GPC4	487.6856481	-1.163584218	0.001403825
ENSG00000197182	MIRLET7BHG	4.139909116	-1.164019769	0.579920188
ENSG00000253394	LINC00534	6.182931004	-1.164056074	0.504420721
ENSG00000259429	UBE2Q2P2	10.50796469	-1.165209264	0.309028399
ENSG00000112992	NNT	68.33374634	-1.165257471	0.018751308
ENSG00000176601	MAP3K19	3.030135927	-1.165402318	0.632956668
ENSG00000115687	PASK	336.3306933	-1.165505926	5.28E-05
ENSG00000183840	GPR39	18.99688949	-1.165709854	0.296329129
ENSG00000233328	PFN1P1	2.534274478	-1.166076128	0.687720374
ENSG00000111554	MDM1	51.85435642	-1.166219388	0.034273121
ENSG00000147224	PRPS1	130.3261819	-1.166814797	0.004898557
ENSG00000135503	ACVR1B	183.7264221	-1.166983194	0.000494825
ENSG00000225791	TRAM2-AS1	20.53893747	-1.168236544	0.189835522
ENSG00000197565	COL4A6	46.37090994	-1.168345789	0.076501049
ENSG00000160321	ZNF208	5.758700124	-1.168486746	0.540222653
ENSG00000280332	AC020917.4	11.48696241	-1.168677391	0.252261498
ENSG00000198832	SELENOM	85.44054225	-1.169578438	0.001847571
ENSG00000062524	LTK	50.52872801	-1.170107184	0.052290482
ENSG00000151575	TEX9	21.17350934	-1.170187198	0.259343749
ENSG00000182983	ZNF662	376.6393508	-1.170546684	0.001937526
ENSG00000123975	CKS2	3296.534705	-1.170595265	1.68E-09

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ENSG00000231817	LINC01198	4.134660135	-1.170997937	0.635150861
ENSG00000205133	TRIQK	12.44196111	-1.171027615	0.2591133
ENSG00000129455	KLK8	30.57277455	-1.171131664	0.081557315
ENSG00000112210	RAB23	340.7648116	-1.171338043	5.97E-06
ENSG00000165171	METTL27	8.28557081	-1.172086759	0.431897705
ENSG00000261089	CDC37P2	43.90883361	-1.172372269	0.05335148
ENSG00000164692	COL1A2	4733.370965	-1.172457198	2.66E-09
ENSG00000103335	PIEZO1	3346.935882	-1.172571722	5.94E-08
ENSG00000196739	COL27A1	140.9828017	-1.172727555	0.089337605
ENSG00000248092	NNT-AS1	43.41415558	-1.173293783	0.020581032
ENSG00000244306	DUXAP10	86.44505181	-1.173692552	0.025022475
ENSG00000278318	ZNF229	128.6947049	-1.174326993	0.00084678
ENSG00000147274	RBMX	2868.833282	-1.174360533	2.60E-10
ENSG00000145241	CENPC	223.1205126	-1.174487408	1.43E-05
ENSG00000227051	C14orf132	21.57157818	-1.175028891	0.184069697
ENSG00000155980	KIF5A	16.77321156	-1.175485258	0.217354821
ENSG00000135828	RNASEL	99.87746425	-1.175504582	0.005953809
ENSG00000180354	MTURN	55.3710609	-1.175739302	0.018381286
ENSG00000167528	ZNF641	42.24929072	-1.175803917	0.066958902
ENSG00000282870	FRG1DP	17.37806587	-1.175851556	0.305427201
ENSG00000258028	AL135878.1	16.35428548	-1.175944777	0.235952122
ENSG00000138613	APH1B	65.20292675	-1.176189674	0.012294445
ENSG00000273033	LINC02035	1199.687439	-1.176380727	0.001926546

ENSG00000120549	KIAA1217	5056.29222	-1.176777884	1.72E-06
ENSG00000224969	AL645608.1	6.717985725	-1.177083171	0.428518123
ENSG00000183010	PYCR1	133.3054081	-1.177617401	0.00368941
ENSG00000135709	KIAA0513	521.7802618	-1.178213524	4.73E-05
ENSG00000176619	LMNB2	6910.654575	-1.178467506	3.76E-06
ENSG00000139354	GAS2L3	204.9786332	-1.178616522	0.000113059
ENSG00000124493	GRM4	7.575243624	-1.178873162	0.552640484
ENSG00000183763	TRAIP	198.6696799	-1.178942682	0.000690302
ENSG00000162063	CCNF	887.7777608	-1.179034502	3.48E-08
ENSG00000140905	GCSH	36.11372803	-1.179199228	0.129509898
ENSG00000141582	CBX4	924.9369295	-1.179427027	1.48E-06
ENSG00000158220	ESYT3	79.84341256	-1.179638766	0.004811649
ENSG00000100644	HIF1A	2217.900544	-1.179806974	2.28E-10
ENSG00000136141	LRCH1	1558.674232	-1.180145613	4.60E-06
ENSG00000137648	TMPRSS4	7.223514035	-1.180239269	0.46533003
ENSG00000142065	ZFP14	30.79463985	-1.180423256	0.06745603
ENSG00000160539	PLPP7	16.96970675	-1.18090191	0.211635163
ENSG00000260121	AC138028.4	7.245810945	-1.181054656	0.480226484
ENSG00000159055	MIS18A	430.8882484	-1.181080201	7.34E-07
ENSG00000253816	AC138866.1	8.75388792	-1.182282113	0.333400888
ENSG00000162676	GFI1	10.68832392	-1.182308448	0.342422784
ENSG00000283016	AL139353.3	8.980919058	-1.182850669	0.349740709
ENSG00000181524	RPL24P4	24.66986252	-1.182900567	0.132984792
ENSG00000100592	DAAM1	809.8797144	-1.183467945	5.44E-06

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ENSG00000267698	AC002116.2	5.448161859	-1.18394789	0.530605171
ENSG00000124145	SDC4	4141.262594	-1.18439894	4.95E-08
ENSG00000180592	SKIDA1	383.8664741	-1.184802879	0.000196938
ENSG00000215769	ARHGAP27P1-BPTFP1-KPNA2P3	4.348145886	-1.185498095	0.50897016
ENSG00000156026	MCU	618.4160861	-1.185647264	3.98E-08
ENSG00000092295	TGM1	283.8410605	-1.186167753	1.57E-05
ENSG00000034510	TMSB10	13409.37012	-1.186197213	1.29E-08
ENSG00000184986	TMEM121	8.531947489	-1.18672035	0.337601933
ENSG00000114573	ATP6V1A	3438.843348	-1.187052546	1.08E-09
ENSG00000077713	SLC25A43	249.3140465	-1.187140121	0.00758763
ENSG00000141574	SECTM1	12.24815503	-1.188650889	0.378053788
ENSG00000092758	COL9A3	1424.375806	-1.188905666	1.60E-09
ENSG00000101236	RNF24	193.3697843	-1.189556628	0.000504542
ENSG00000125398	SOX9	233.2011601	-1.190475063	0.000158044
ENSG00000171016	PYGO1	2.900656671	-1.19069215	0.662270034
ENSG00000215270	AP000523.1	2.900656671	-1.19069215	0.662270034
ENSG00000131797	CLUHP3	158.5901654	-1.190700492	0.000741226
ENSG00000230409	TCEA1P2	25.75492137	-1.191437581	0.103959373
ENSG00000147164	SNX12	780.6543503	-1.192080138	0.000719875
ENSG00000198920	KIAA0753	113.4439453	-1.192267029	0.023340068
ENSG00000122224	LY9	14.7320177	-1.192272279	0.31256079
ENSG00000188191	PRKAR1B	131.6511387	-1.192579893	0.022784023
ENSG00000141198	TOM1L1	192.2987593	-1.192995938	0.000348516

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ENSG00000035687	ADSS	2305.693822	-1.19379703	5.95E-08
ENSG00000122376	SHLD2	204.2748105	-1.194499087	0.00443931
ENSG00000180447	GAS1	28.2477336	-1.194551288	0.176463108
ENSG00000270872	SRGAP2D	18.98853585	-1.195265252	0.145550482
ENSG00000105939	ZC3HAV1	1817.226287	-1.197470403	4.54E-07
ENSG00000285043	AC093512.2	8.228230257	-1.197709509	0.397735044
ENSG00000179431	FJX1	47.58594798	-1.19790794	0.069325764
ENSG00000163781	TOPBP1	1837.963527	-1.198132007	1.72E-07
ENSG00000080947	CROCCP3	7.530020996	-1.198177141	0.376317941
ENSG00000249116	AC025183.1	14.39951236	-1.198177496	0.193519873
ENSG00000137831	UACA	238.5012758	-1.199742707	0.000256379
ENSG00000237938	AL450998.3	7.639523392	-1.199809198	0.46094038
ENSG00000118965	WDR35	13.295057	-1.200475815	0.227501783
ENSG00000225313	AL513327.1	11.77626111	-1.200541397	0.364406308
ENSG00000151692	RNF144A	327.2567605	-1.200803353	7.27E-06
ENSG00000230529	CEACAMP9	13.77324694	-1.201345722	0.377971549
ENSG00000075213	SEMA3A	28.26677465	-1.20138194	0.14865132
ENSG00000189129	PLAC9	26.55762371	-1.201514593	0.208157833
ENSG00000135338	LCA5	45.88540711	-1.20206431	0.088492846
ENSG00000171790	SLFNL1	14.09813736	-1.202136148	0.317676388
ENSG00000122507	BBS9	117.5254899	-1.202364822	0.000439383
ENSG00000013573	DDX11	968.0187288	-1.202498883	6.16E-06

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ENSG00000081923	ATP8B1	1013.452495	-1.203192734	0.00025852
ENSG00000233351	AL356124.2	10.05477234	-1.203555261	0.29303155
ENSG00000227619	AL391056.1	6.067113267	-1.203731606	0.47615018
ENSG00000149201	CCDC81	8.770541052	-1.204307171	0.333377674
ENSG00000163492	CCDC141	12.78298442	-1.205550126	0.354958638
ENSG00000137124	ALDH1B1	170.5561471	-1.205562635	0.001655915
ENSG00000075624	ACTB	63054.49997	-1.205826974	2.04E-07
ENSG00000054179	ENTPD2	37.31781684	-1.205936434	0.041765415
ENSG00000158186	MRAS	924.8609131	-1.206586876	0.001512762
ENSG00000215492	HNRNPA1P7	145.9327418	-1.206673569	5.84E-05
ENSG00000164932	CTHRC1	14.5743113	-1.206950182	0.269266751
ENSG00000141448	GATA6	71.97533386	-1.206964804	0.007603641
ENSG00000146648	EGFR	8112.309912	-1.207567488	4.87E-10
ENSG00000107099	DOCK8	900.8421685	-1.20758376	3.69E-06
ENSG00000137713	PPP2R1B	942.5182246	-1.207603985	4.75E-09
ENSG00000089159	PXN	1388.086048	-1.207854726	6.85E-07
ENSG00000100767	PAPLN	88.83595732	-1.207865489	0.002768362
ENSG00000131351	HAUS8	580.5204651	-1.208264082	1.19E-06
ENSG00000188580	NKAIN2	3.47767917	-1.208574548	0.639380945
ENSG00000272800	AC021851.1	3.099476136	-1.20857868	0.613203004
ENSG00000119782	FKBP1B	23.21180412	-1.208594667	0.106130469
ENSG00000163521	GLB1L	44.15335608	-1.208748662	0.017989518
ENSG00000166130	IKBIP	208.5611272	-1.208789093	0.000343489

ENSG00000115392	FANCL	159.1463066	-1.209278773	0.000546628
ENSG00000111145	ELK3	232.5698449	-1.209471347	7.70E-06
ENSG00000182621	PLCB1	45.56282872	-1.21017861	0.130106309
ENSG00000164251	F2RL1	1153.442137	-1.210525869	9.47E-08
ENSG00000231794	AC009542.1	6.720215419	-1.210828424	0.475305147
ENSG00000137193	PIM1	1131.411029	-1.211046325	3.44E-05
ENSG00000128708	HAT1	1447.930187	-1.211235871	3.30E-08
ENSG00000185133	INPP5J	35.02032401	-1.211283774	0.042004952
ENSG00000103966	EHD4	1967.654059	-1.211641631	8.79E-06
ENSG00000170271	FAXDC2	25.89303941	-1.211720873	0.074054891
ENSG00000257446	ZNF878	98.14538172	-1.211968295	0.002350096
ENSG00000169018	FEM1B	4002.965414	-1.212936018	0.000204197
ENSG00000227373	RABGAP1L-DT	3.108588457	-1.213273338	0.616688965
ENSG00000261243	AC022165.1	4.95971203	-1.213424565	0.592500463
ENSG00000003249	DBNDD1	307.5428468	-1.213560925	0.000743675
ENSG00000132846	ZBED3	5.694662811	-1.213597098	0.49242356
ENSG00000080819	CPOX	461.2378033	-1.214026274	1.02E-08
ENSG00000189269	DRICH1	3.327142478	-1.21408387	0.699629171
ENSG00000285077	AC091057.6	11.34070151	-1.214221627	0.252003962
ENSG00000231344	AL020997.1	13.08490583	-1.214239573	0.256938021
ENSG00000228242	AC093495.1	10.90745344	-1.214376863	0.365062134
ENSG00000207554	MIR647	10.37212287	-1.214504636	0.326414447
ENSG00000175455	CCDC14	540.4776308	-1.214691854	6.32E-08
ENSG00000128536	CDHR3	6.034365141	-1.21474995	0.421025774

ENSG00000049541	RFC2	994.0633445	-1.214939279	2.32E-10
ENSG00000116661	FBXO2	23.69995865	-1.215330178	0.139573785
ENSG00000183044	ABAT	85.22838309	-1.21593248	0.001513293
ENSG00000225264	ZNRF2P2	5.417795919	-1.216297795	0.563548905
ENSG00000203734	ECT2L	5.997073276	-1.216545579	0.518923121
ENSG00000272281	TPTE2P2	5.16053718	-1.216779481	0.59164213
ENSG00000102908	NFAT5	1698.172614	-1.218213937	0.001654304
ENSG00000175548	ALG10B	199.5157865	-1.218361193	0.002899693
ENSG00000124151	NCOA3	33084.41099	-1.218678154	7.66E-08
ENSG00000166922	SCG5	6.051627699	-1.218704215	0.473396736
ENSG00000102780	DGKH	28.3238696	-1.218880288	0.147731036
ENSG00000196511	TPK1	446.7917818	-1.219022795	0.000295396
ENSG00000218891	ZNF579	61.58373786	-1.219168904	0.010910774
ENSG00000145088	EAF2	84.56708669	-1.219927156	0.005377059
ENSG00000162814	SPATA17	2.771737449	-1.219981203	0.626872801
ENSG00000143933	CALM2	3032.351364	-1.220127237	3.64E-09
ENSG00000059728	MXD1	2233.045864	-1.22019077	6.83E-10
ENSG00000284526	AC015802.6	18.39871454	-1.220386825	0.149137095
ENSG00000198691	ABCA4	40.25002011	-1.220414505	0.104703919
ENSG00000253958	CLDN23	99.43419477	-1.220892087	0.000871177
ENSG00000002586	CD99	2194.138633	-1.221567462	1.31E-11
ENSG00000233673	ANAPC1P1	2.951065206	-1.222193644	0.670492246
ENSG00000113569	NUP155	3546.351711	-1.222582974	1.65E-10
ENSG00000076513	ANKRD13A	1372.650499	-1.222959978	1.73E-07

ENSG00000132016	C19orf57	8.358945922	-1.223465223	0.358091032
ENSG00000183963	SMTN	548.7959449	-1.224086986	4.74E-08
ENSG00000279148	AC126474.1	4.088723189	-1.22476131	0.558238901
ENSG00000164307	ERAP1	544.7748836	-1.225084202	2.47E-06
ENSG00000186918	ZNF395	275.0831566	-1.225121225	6.00E-05
ENSG00000165886	UBTD1	178.2015138	-1.225465194	0.009191553
ENSG00000208892	SNORA49	2.944549158	-1.225802427	0.698951638
ENSG00000137842	TMEM62	1936.478163	-1.226144092	1.34E-09
ENSG00000227671	AL390728.4	309.7326779	-1.226959541	1.99E-06
ENSG00000152413	HOMER1	488.0476756	-1.228039021	0.002065357
ENSG00000058668	ATP2B4	24664.93905	-1.228536175	7.12E-05
ENSG00000258524	NT5CP1	8.34977239	-1.228707442	0.39739957
ENSG00000101849	TBL1X	2966.748086	-1.228884796	6.60E-05
ENSG00000119927	GPAM	356.6058449	-1.228906082	3.07E-07
ENSG00000182118	FAM89A	1647.774328	-1.229899626	3.62E-09
ENSG00000134940	ACRV1	4.158996336	-1.230301368	0.599492832
ENSG00000143971	ETAA1	140.4368152	-1.230454024	0.000100543
ENSG00000061337	LZTS1	11.68000904	-1.230490355	0.248584523
ENSG00000131153	GINS2	509.2701099	-1.230808739	6.25E-06
ENSG00000170571	EMB	617.840755	-1.231113697	1.26E-07
ENSG00000112576	CCND3	2403.415067	-1.231248295	2.87E-05
ENSG00000129173	E2F8	4503.44167	-1.231807119	4.64E-09
ENSG00000146350	TBC1D32	69.88999452	-1.231830706	0.01363809
ENSG00000269825	AC022150.4	127.8957002	-1.231835524	0.032958483

ENSG00000168077	SCARA3	786.6327547	-1.231976269	5.99E-07
ENSG00000139618	BRCA2	231.1627898	-1.232030765	0.000211727
ENSG00000231066	NPM1P9	11.8732002	-1.232717727	0.283130791
ENSG00000169908	TM4SF1	193.7588235	-1.232874876	1.99E-05
ENSG00000129534	MIS18BP1	568.541426	-1.234131142	8.07E-10
ENSG00000074964	ARHGEF10L	401.1048991	-1.234525246	0.000284058
ENSG00000075618	FSCN1	1240.165922	-1.235225041	0.249203501
ENSG00000184640	SEPTIN9	7212.135415	-1.235507965	1.09E-08
ENSG00000080839	RBL1	660.6363697	-1.237108637	1.45E-08
ENSG00000152061	RABGAP1L	635.938204	-1.237144178	1.64E-06
ENSG00000148498	PARD3	1869.432203	-1.237191958	5.47E-09
ENSG00000248243	LINC02014	6.113060518	-1.237417766	0.421847091
ENSG00000158296	SLC13A3	319.9456072	-1.237772325	6.18E-05
ENSG00000138801	PAPSS1	649.1587685	-1.237927414	6.30E-07
ENSG00000083814	ZNF671	23.79078717	-1.238570894	0.133923792
ENSG00000282995	FRG1EP	9.461403233	-1.238907266	0.393908424
ENSG00000170903	MSANTD4	23.97963861	-1.239183235	0.12637324
ENSG00000105982	RNF32	10.07268377	-1.239556289	0.274848115
ENSG00000164659	KIAA1324L	260.9863435	-1.240007656	0.000129082
ENSG00000173821	RNF213	886.7920372	-1.240582334	1.68E-05
ENSG00000011405	PIK3C2A	13597.8822	-1.24075633	2.01E-08
ENSG00000112118	MCM3	2935.699268	-1.241627111	3.40E-10
ENSG00000186854	TRABD2A	1107.848029	-1.241750167	7.95E-05
ENSG00000101974	ATP11C	446.4106402	-1.242613455	1.19E-06

ENSG00000097096	SYDE2	152.1965049	-1.242802685	0.005591632
ENSG00000162496	DHRS3	202.0198327	-1.243490595	0.003679173
ENSG00000186522	SEPTIN10	202.2641029	-1.243723749	0.002458409
ENSG00000166033	HTRA1	29.51886217	-1.244338688	0.086780995
ENSG00000180626	ZNF594	14.1498654	-1.244585387	0.308197982
ENSG00000198721	ECI2	79.48339653	-1.244849699	0.001796612
ENSG00000214694	ARHGEF33	4.465241921	-1.244855703	0.598144832
ENSG00000107130	NCS1	94.57094749	-1.245409965	0.005787211
ENSG00000104368	PLAT	44.62467866	-1.246276897	0.020045777
ENSG00000185219	ZNF445	237.4990128	-1.246506141	5.67E-06
ENSG00000169032	MAP2K1	1440.055242	-1.246897631	2.43E-06
ENSG00000203760	CENPW	605.182818	-1.247034993	5.86E-08
ENSG00000172687	ZNF738	287.103542	-1.247057007	8.74E-06
ENSG00000171793	CTPS1	2843.423146	-1.247148205	1.23E-08
ENSG00000160050	CCDC28B	39.58506107	-1.247322377	0.031505854
ENSG00000247095	MIR210HG	139.3556392	-1.24786196	0.003893794
ENSG00000149557	FEZ1	59.53772011	-1.248485816	0.094080167
ENSG00000240661	AC063952.1	4.485157189	-1.248510438	0.521334663
ENSG00000160094	ZNF362	151.2664421	-1.249142643	0.007736553
ENSG00000188167	TMPPE	57.6492387	-1.24996186	0.010399446
ENSG00000167693	NXN	185.8080464	-1.25005714	0.000211727
ENSG00000145287	PLAC8	41.86600954	-1.250215716	0.103595622
ENSG00000089818	NECAP1	405.453628	-1.250501133	2.40E-08
ENSG00000165533	TTC8	69.92713734	-1.251175976	0.004821655

ENSG00000267537	AC079466.2	5.064623468	-1.252157983	0.450522386
ENSG00000145012	LPP	137.5702063	-1.252362114	0.00105255
ENSG00000271943	AC098614.3	8.802769552	-1.252490361	0.31572256
ENSG00000214050	FBXO16	3.174263939	-1.252705018	0.651408984
ENSG00000135622	SEMA4F	179.4064345	-1.253589722	4.63E-05
ENSG00000151967	SCHIP1	13.98112688	-1.254868423	0.195139258
ENSG00000250710	OR7E99P	3.658508077	-1.255624266	0.526174591
ENSG00000152763	WDR78	3.268363294	-1.255890488	0.726561268
ENSG00000269713	NBPF9	299.602502	-1.256406579	6.23E-06
ENSG00000130045	NXNL2	14.12681149	-1.256641487	0.246884264
ENSG00000261667	LY6L	13.94786305	-1.256779348	0.230381807
ENSG00000139410	SDSL	49.7607457	-1.257583971	0.050627427
ENSG00000174684	B4GAT1	656.7809932	-1.257612992	4.06E-08
ENSG00000134780	DAGLA	20.80213841	-1.25796267	0.127178451
ENSG00000087266	SH3BP2	425.379786	-1.258343509	0.000305185
ENSG00000169604	ANTXR1	5.996092737	-1.25843558	0.389153326
ENSG00000118263	KLF7	46.0757599	-1.258497746	0.022180676
ENSG00000103855	CD276	5306.26007	-1.259563167	5.89E-12
ENSG00000040199	PHLPP2	112.5166365	-1.260275318	0.008163819
ENSG00000129657	SEC14L1	1501.594548	-1.260290566	1.27E-05
ENSG00000153179	RASSF3	1794.006018	-1.260503231	3.23E-08
ENSG00000131018	SYNE1	32.52603078	-1.260642601	0.061154896
ENSG00000165185	KIAA1958	87.57959129	-1.260982445	0.011033205
ENSG00000169981	ZNF35	13.87304367	-1.261048529	0.211938195

ENSG00000177335	C8orf31	504.4116273	-1.261263957	4.47E-05
ENSG00000180096	SEPTIN1	14.21213024	-1.261403494	0.285496533
ENSG00000107614	TRDMT1	20.12761107	-1.261702551	0.190703548
ENSG00000100422	CERK	209.2264549	-1.261847547	2.10E-05
ENSG00000183317	EPHA10	8.663810853	-1.261956248	0.481643658
ENSG00000181333	HEPHL1	8.178535788	-1.262157685	0.347898292
ENSG00000261468	AC096921.2	55.96811741	-1.262496498	0.046440717
ENSG00000103056	SMPD3	277.9020629	-1.262846365	0.00422423
ENSG00000140876	NUDT7	20.86155533	-1.263461661	0.245808539
ENSG00000080503	SMARCA2	5079.552938	-1.263941233	4.34E-07
ENSG00000104760	FGL1	6.52076807	-1.264198381	0.429840719
ENSG00000136144	RCBTB1	220.7449005	-1.264372463	1.32E-05
ENSG00000185669	SNAI3	6.191892371	-1.264471873	0.423831414
ENSG00000103995	CEP152	474.5191367	-1.26491736	2.51E-06
ENSG00000270580	AC139256.2	4.42745467	-1.264978967	0.55994509
ENSG00000162073	PAQR4	73.8596133	-1.266117056	0.001173799
ENSG00000161944	ASGR2	59.33903596	-1.266214366	0.013596959
ENSG00000100739	BDKRB1	28.4120831	-1.266237877	0.176562306
ENSG00000188177	ZC3H6	72.84197852	-1.2671659	0.049067257
ENSG00000127589	TUBBP1	8.690565056	-1.267939752	0.356978092
ENSG00000144712	CAND2	9.724364581	-1.268402526	0.292826962
ENSG00000164118	CEP44	155.584561	-1.2690605	0.000798353
ENSG00000113369	ARRDC3	1132.956281	-1.269311495	0.001095708
ENSG00000175697	GPR156	30.1239071	-1.269602496	0.056216012

ENSG00000196220	SRGAP3	8.399138249	-1.270147178	0.383090602
ENSG00000149554	CHEK1	628.0684249	-1.270171067	2.42E-08
ENSG00000287206	AC069421.3	5.666781997	-1.270182209	0.567741288
ENSG00000143390	RFX5	207.9464074	-1.270378261	0.00015251
ENSG00000260075	NSFP1	28.90461	-1.271352152	0.06389153
ENSG00000139278	GLIPR1	75.25469439	-1.271368599	0.037659197
ENSG00000253967	AC022730.4	5.542052898	-1.271461444	0.437057735
ENSG00000053438	NNAT	16.69822681	-1.271774608	0.315031377
ENSG00000123364	HOXC13	44.65477191	-1.272066729	0.054229596
ENSG00000286214	AUXG01000058.1	18.30113325	-1.272130823	0.15790002
ENSG00000151503	NCAPD3	1216.970505	-1.272376346	1.03E-08
ENSG00000055163	CYFIP2	719.9439062	-1.272424144	1.48E-07
ENSG00000070404	FSTL3	5715.130456	-1.272514508	4.21E-05
ENSG00000145623	OSMR	3746.318554	-1.273190038	6.09E-06
ENSG00000165905	LARGE2	1058.257493	-1.273884239	4.62E-07
ENSG00000235162	C12orf75	1354.849839	-1.274710911	0.000707652
ENSG00000164509	IL31RA	99.66883048	-1.274943152	0.009762468
ENSG00000106571	GLI3	433.7323044	-1.275281325	0.000407053
ENSG00000105639	JAK3	20.64377109	-1.275417131	0.120190973
ENSG00000100162	CENPM	133.2943267	-1.27572666	0.000200195
ENSG00000165985	C1QL3	19.49544475	-1.275908703	0.123015138
ENSG00000118412	CASP8AP2	367.5658031	-1.276153815	3.69E-06
ENSG00000150764	DIXDC1	116.3068217	-1.277177098	0.01473694
ENSG00000176454	LPCAT4	523.2305929	-1.277693695	1.56E-05

ENSG00000224984	AL512363.1	4.770510959	-1.278230456	0.538361806
ENSG00000170266	GLB1	941.6129199	-1.278585725	7.46E-09
ENSG00000105974	CAV1	592.9069842	-1.278611159	0.004295303
ENSG00000224578	HNRNPA1P48	127.2516433	-1.278898315	7.13E-05
ENSG00000248712	CCDC153	25.33805623	-1.278959656	0.071525005
ENSG00000172731	LRRC20	23.89492482	-1.27909744	0.069577053
ENSG00000283047	FRG1FP	27.12573009	-1.279794492	0.198695187
ENSG00000166710	B2M	12714.40611	-1.279819814	7.41E-06
ENSG00000115226	FNDC4	8.733358984	-1.28012958	0.366461805
ENSG00000186314	PRELID2	25.42733838	-1.280272934	0.06892298
ENSG00000073921	PICALM	3324.149289	-1.281438816	4.34E-07
ENSG00000197124	ZNF682	81.14384439	-1.281552212	0.012341978
ENSG00000005469	CROT	1213.894924	-1.282124804	0.002069238
ENSG00000102362	SYTL4	89.50741405	-1.282559122	0.001398645
ENSG00000147874	HAUS6	609.5729108	-1.282775029	1.71E-06
ENSG00000138346	DNA2	541.5247763	-1.283027929	1.89E-07
ENSG00000223486	AC092198.1	7.582301783	-1.283390305	0.414007035
ENSG00000135205	CCDC146	4.554876721	-1.284429564	0.440080543
ENSG00000100629	CEP128	194.9831808	-1.284981075	0.002109849
ENSG00000152527	PLEKHH2	5.894815461	-1.285316199	0.450720404
ENSG00000132330	SCLY	14.39067511	-1.286058508	0.255269072
ENSG00000113356	POLR3G	64.38836941	-1.286063366	0.046071629
ENSG00000148158	SNX30	2092.027825	-1.286380785	3.70E-05
ENSG00000277687	AL139407.1	4.956858363	-1.286416889	0.523304739

ENSG00000178585	CTNNBIP1	238.4035921	-1.287174568	2.74E-05
ENSG00000146670	CDCA5	1425.787704	-1.287228551	7.03E-07
ENSG00000142731	PLK4	893.3822815	-1.287283248	2.32E-10
ENSG00000142102	PGGHG	287.3514892	-1.287420603	1.74E-05
ENSG00000115415	STAT1	4072.870682	-1.287597066	1.41E-06
ENSG00000134755	DSC2	7534.9777	-1.288277562	1.30E-07
ENSG00000159208	CIART	5.923357353	-1.288357334	0.377331426
ENSG00000051825	MPHOSPH9	215.5386832	-1.28873427	0.001015993
ENSG00000108849	PPY	8.416277459	-1.288855492	0.42016259
ENSG00000137274	BPHL	105.6242922	-1.288988123	0.004431137
ENSG00000250284	AC109439.2	9.133837035	-1.28940603	0.331848192
ENSG00000138771	SHROOM3	171.1333869	-1.28947327	6.45E-05
ENSG00000183248	PRR36	11.84496194	-1.290359073	0.249203501
ENSG00000151746	BICD1	51.94054234	-1.291145446	0.012862265
ENSG00000196972	SMIM10L2B	7.982779834	-1.291916807	0.410729973
ENSG00000198056	PRIM1	367.4239804	-1.292290012	2.11E-05
ENSG00000170085	SIMC1	18.15043623	-1.292560194	0.128130136
ENSG00000169258	GPRIN1	36.25335704	-1.29298095	0.103226912
ENSG00000188807	TMEM201	356.6499905	-1.29357146	6.49E-07
ENSG00000128594	LRRC4	1.721887164	-1.293616699	0.76735588
ENSG00000164039	BDH2	30.62046358	-1.293936116	0.04044437
ENSG00000164237	CMBL	306.5318128	-1.294327939	4.38E-07
ENSG00000135842	NIBAN1	372.3437736	-1.294407502	4.46E-05
ENSG00000273061	CDC37L1-DT	8.987169559	-1.294538968	0.314732278

ENSG00000136244	IL6	14.43738521	-1.295798048	0.320009298
ENSG00000112242	E2F3	166.2276993	-1.295997873	0.000743675
ENSG00000109099	PMP22	85.0490645	-1.296386413	0.002792531
ENSG00000288040	AC097713.3	4.421534125	-1.296698843	0.512383562
ENSG00000180182	MED14	2550.340782	-1.29804672	1.44E-09
ENSG00000131781	FMO5	11.47015806	-1.298243226	0.223067078
ENSG00000174697	LEP	6940.584402	-1.298616332	0.179949073
ENSG00000267259	ERVE-1	439.2309631	-1.299520006	3.74E-06
ENSG00000105655	ISYNA1	3555.647132	-1.300539109	3.04E-06
ENSG00000171848	RRM2	18488.05164	-1.300866439	7.90E-07
ENSG00000148218	ALAD	1690.676155	-1.30161724	4.72E-09
ENSG00000112312	GMNN	1772.853546	-1.301634572	2.12E-11
ENSG00000198155	ZNF876P	87.10375184	-1.302017529	0.004603991
ENSG00000179630	LACC1	199.8007899	-1.302685019	2.24E-05
ENSG00000112208	BAG2	204.0743511	-1.302786704	2.04E-05
ENSG00000186193	SAPCD2	311.9801617	-1.303491996	4.42E-05
ENSG00000180574	EIF2S3B	12.50935366	-1.303750745	0.310251222
ENSG00000158825	CDA	10.91516141	-1.303886649	0.239765757
ENSG00000171444	MCC	50.98149871	-1.304546331	0.005462413
ENSG00000169635	HIC2	4413.110603	-1.304746018	7.36E-06
ENSG00000164291	ARSK	157.7450201	-1.305110776	0.007344899
ENSG00000123179	EBPL	227.6532946	-1.305306956	7.70E-05
ENSG00000048028	USP28	659.8892116	-1.305382731	4.98E-11
ENSG00000164758	MED30	127.8085696	-1.30569953	0.000141578

ENSG00000087253	LPCAT2	169.5879696	-1.305938506	0.002291272
ENSG00000079462	PAFAH1B3	145.7642915	-1.306101914	0.000205202
ENSG00000157851	DPYSL5	4.612570475	-1.306180551	0.460415173
ENSG00000142794	NBPF3	482.6660025	-1.30673419	4.35E-07
ENSG00000148803	FUOM	46.60191882	-1.307380031	0.010298149
ENSG00000137968	SLC44A5	216.1767157	-1.307427145	0.0003557
ENSG00000087076	HSD17B14	24.24389442	-1.30747685	0.05551559
ENSG00000184254	ALDH1A3	75.51504517	-1.30772806	0.008562682
ENSG00000132436	FIGNL1	570.8510051	-1.307908236	2.94E-08
ENSG00000165046	LETM2	42.81562718	-1.308887077	0.040392427
ENSG00000138002	IFT172	54.40861059	-1.309029941	0.01430074
ENSG00000129250	KIF1C	5411.958347	-1.30922686	1.11E-07
ENSG00000204060	FOXO6	2991.404993	-1.309412461	3.10E-06
ENSG00000287306	AC016821.1	4.815291189	-1.309696834	0.606622998
ENSG00000120756	PLS1	223.5541782	-1.309808005	3.62E-06
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ENSG00000106771	TMEM245	1853.67586	-1.310061551	3.28E-08
ENSG00000279549	AP000437.1	3.069428309	-1.310510495	0.667551735
ENSG00000168615	ADAM9	5049.696462	-1.310516259	6.16E-10
ENSG00000170340	B3GNT2	628.03733	-1.310668996	7.04E-07
ENSG00000198909	MAP3K3	145.4792667	-1.310897278	0.000718147
ENSG00000101384	JAG1	473.6133336	-1.311165624	1.70E-06
ENSG00000162390	ACOT11	86.52460683	-1.31121927	0.007381712
ENSG00000101224	CDC25B	729.7256662	-1.312598592	1.05E-09

ENSG00000070882	OSBPL3	1128.506783	-1.312720032	2.42E-06
ENSG00000174371	EXO1	3913.344373	-1.313157337	1.14E-07
ENSG00000247746	USP51	5.97833626	-1.313445528	0.48563447
ENSG00000150093	ITGB1	9586.432493	-1.313718348	2.24E-10
ENSG00000104756	KCTD9	789.4529717	-1.313953282	6.09E-10
ENSG00000105011	ASF1B	644.3737994	-1.314712706	1.65E-09
ENSG00000033327	GAB2	24232.51185	-1.314766718	1.03E-07
ENSG00000135414	GDF11	262.5535238	-1.315053777	8.01E-05
ENSG00000138316	ADAMTS14	3.077030714	-1.315202869	0.666190407
ENSG00000118257	NRP2	163.3541786	-1.315476113	0.000111184
ENSG00000082212	ME2	458.2765134	-1.315526613	1.08E-07
ENSG00000164125	GASK1B	214.1309361	-1.315772815	0.000676833
ENSG00000274602	PI4KAP1	3416.273983	-1.315784972	0.000211286
ENSG00000282851	BISPR	7.553724458	-1.3169671	0.329910898
ENSG00000134202	GSTM3	472.1238181	-1.317217772	1.76E-10
ENSG00000175606	TMEM70	802.5724941	-1.317538168	8.13E-08
ENSG00000237926	AC239367.3	2.910797191	-1.317863845	0.593446812
ENSG00000154127	UBASH3B	322.2854681	-1.317900901	0.000852654
ENSG00000112182	BACH2	31.82452221	-1.317924079	0.057722499
ENSG00000166311	SMPD1	568.1928108	-1.318615574	1.43E-06
ENSG00000129187	DCTD	1034.636119	-1.318728639	2.55E-07
ENSG00000143401	ANP32E	1683.166141	-1.319204924	3.37E-12
ENSG00000279041	AC102945.2	17.17482013	-1.319318324	0.125019345
ENSG00000229901	AC093151.2	7.460725142	-1.319413241	0.481291259

ENSG00000111859	NEDD9	2150.67021	-1.319480073	1.81E-09
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ENSG00000144199	FAHD2B	105.9571246	-1.319611076	0.000430028
ENSG00000260498	AC126696.3	2.407061344	-1.319641164	0.667551735
ENSG00000258279	LINC00592	9.106663253	-1.320039623	0.284752646
ENSG00000226535	AL445487.1	14.76878301	-1.320343479	0.183417305
ENSG00000160447	PKN3	300.4784123	-1.320809123	8.88E-08
ENSG00000146535	GNA12	8986.424353	-1.320880831	5.38E-12
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ENSG00000275874	PICSAR	24.00163915	-1.321507748	0.10775231
ENSG00000261838	AC092718.6	12.37364396	-1.32168608	0.186936836
ENSG00000096060	FKBP5	76.85852316	-1.321803201	0.011086182
ENSG00000197769	MAP1LC3C	5.336037055	-1.321941822	0.518263543
ENSG00000144847	IGSF11	10.62081724	-1.321969362	0.395206229
ENSG00000178691	SUZ12	2874.079258	-1.322098104	2.57E-08
ENSG00000220749	RPL21P28	7.195323994	-1.323233304	0.43855147
ENSG00000121957	GPSM2	1176.120341	-1.323283644	1.29E-05
ENSG00000013288	MAN2B2	1159.456063	-1.32338106	4.40E-12
ENSG00000278616	BEND3P3	5.162975792	-1.3236879	0.432125287
ENSG00000232093	DCST1-AS1	11.44757616	-1.324032063	0.187237955
ENSG00000064199	SPA17	19.0369064	-1.324278927	0.113508508
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ENSG00000102287	GABRE	1614.52729	-1.325497491	0.000776171

ENSG00000261578	AP003119.3	10.12071313	-1.325535646	0.332204006
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ENSG00000078124	ACER3	270.6181684	-1.326818796	1.61E-05
ENSG00000258815	LINC02820	7.721723872	-1.327150724	0.382629581
ENSG00000243004	AC005062.1	2.049943964	-1.327635809	0.707222508
ENSG00000166387	PPFIBP2	366.1422313	-1.32825356	3.54E-06
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ENSG00000197147	LRRC8B	259.8391452	-1.328686973	0.004001745
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ENSG00000151835	SACS	34.34311414	-1.329368024	0.020973124
ENSG00000254685	FPGT	82.800914	-1.329379328	0.008970807
ENSG00000092208	GEMIN2	130.8878551	-1.329530797	0.000462456
ENSG00000112561	TFEB	1816.627234	-1.329845509	2.47E-05
ENSG00000125846	ZNF133	171.1649442	-1.329906031	1.75E-05
ENSG00000158301	GPRASP2	49.95138898	-1.330109319	0.017888232
ENSG00000068796	KIF2A	3958.830967	-1.330196675	1.26E-06
ENSG00000163093	BBS5	16.45104279	-1.330483024	0.233920981
ENSG00000185499	MUC1	36.03635002	-1.331583663	0.039087366
ENSG00000158246	TENT5B	286.4507922	-1.331825696	0.000366519
ENSG00000185420	SMYD3	142.8136208	-1.333448552	0.000326429
ENSG00000135272	MDFIC	134.8989773	-1.334553301	0.000176099
ENSG00000256968	SNRPEP2	3.108411726	-1.334607643	0.613344694
ENSG00000215493	AC007731.1	6.225092263	-1.335555077	0.349837477
ENSG00000017797	RALBP1	9127.111809	-1.336141289	1.65E-08

ENSG00000177602	HASPIN	422.877631	-1.337048742	1.74E-05
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ENSG00000134330	IAH1	184.1903181	-1.338642053	1.83E-05
ENSG00000116127	ALMS1	188.3882353	-1.339038477	1.66E-05
ENSG00000167601	AXL	217.2709597	-1.340655491	0.000320774
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ENSG00000184500	PROS1	149.7157622	-1.342545881	0.000432074
ENSG00000159788	RGS12	110.6775117	-1.342551095	0.000740964
ENSG00000269190	FBXO17	29.53409762	-1.343682741	0.037113874
ENSG00000021355	SERPINB1	526.4480939	-1.34391461	1.28E-05
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ENSG00000013810	TACC3	1634.593451	-1.345103947	1.14E-11
ENSG00000234444	ZNF736	165.6316506	-1.34526048	0.000127146
ENSG00000214595	EML6	26.97269877	-1.345294346	0.050542452
ENSG00000111816	FRK	167.7544228	-1.34564882	6.50E-05
ENSG00000101052	IFT52	141.7541867	-1.345956529	4.74E-05
ENSG00000278493	AC039056.2	2.869604077	-1.346344948	0.573044204
ENSG00000231566	LINC02595	2.776430375	-1.346575756	0.61993501

ENSG00000047849	MAP4	3907.882916	-1.346949188	7.57E-08
ENSG00000197372	ZNF675	186.8111743	-1.347043279	6.82E-06
ENSG00000156011	PSD3	23.97856791	-1.34743539	0.111689202
ENSG00000179059	ZFP42	503.7970141	-1.347861447	0.000295477
ENSG00000115159	GPD2	603.0767726	-1.348119284	2.36E-08
ENSG00000171388	APLN	7.437136001	-1.34869449	0.503875557
ENSG00000108947	EFNB3	20.66407061	-1.349294502	0.13839281
ENSG00000134627	PIWIL4	27.35625866	-1.349851294	0.046071629
ENSG00000043591	ADRB1	41.63510985	-1.349992377	0.045843729
ENSG00000100154	TTC28	92.90464082	-1.350035339	0.00029521
ENSG00000167074	TEF	231.8167476	-1.350650271	9.46E-05
ENSG00000083799	CYLD	169.5639487	-1.351084163	3.91E-06
ENSG00000040275	SPDL1	493.408764	-1.352992661	1.28E-06
ENSG00000221878	PSG7	60.16304263	-1.354741028	0.062725565
ENSG00000259485	LINC02253	28.8713214	-1.35499004	0.063688989
ENSG00000143375	CGN	494.6296096	-1.355619524	3.71E-07
ENSG00000187244	BCAM	1764.397363	-1.35612356	4.53E-08
ENSG00000154556	SORBS2	684.2041136	-1.356274747	1.98E-06
ENSG00000213967	ZNF726	91.62932732	-1.356394292	0.00022429
ENSG00000116675	DNAJC6	806.2729474	-1.35648908	1.18E-05
ENSG00000184009	ACTG1	33658.69257	-1.356505099	1.80E-08
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ENSG00000124766	SOX4	615.0820829	-1.35823418	5.28E-07
ENSG00000184635	ZNF93	482.2339608	-1.359532521	1.90E-10

ENSG00000130038	CRACR2A	2.792120881	-1.359832535	0.626603214
ENSG00000148400	NOTCH1	1292.383955	-1.359887534	1.07E-05
ENSG00000144061	NPHP1	5.093390294	-1.360075891	0.455620163
ENSG00000224043	CCNT2-AS1	17.30115403	-1.361359369	0.222026824
ENSG00000156876	SASS6	344.6391828	-1.361815209	1.35E-07
ENSG00000168785	TSPAN5	114.6324024	-1.361921758	0.000158487
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ENSG00000186847	KRT14	181.7113416	-1.363045047	0.022565757
ENSG00000229659	RPL26P6	10.85261648	-1.363963404	0.426806142
ENSG00000146950	SHROOM2	390.5197065	-1.363988728	4.15E-07
ENSG00000161921	CXCL16	101.9396949	-1.364072557	0.006900175
ENSG00000119771	KLHL29	432.2977818	-1.365649694	3.56E-06
ENSG00000196177	ACADSB	172.384489	-1.365952041	6.77E-06
ENSG00000126705	AHDC1	620.1539582	-1.366445528	0.000421721
ENSG00000128342	LIF	272.9229211	-1.366888274	3.03E-07
ENSG00000166492	FAM86GP	17.30064978	-1.366946545	0.163547231
ENSG00000176753	C15orf56	3.780062956	-1.366983511	0.50018993
ENSG00000137509	PRCP	1050.213249	-1.367256077	1.12E-08
ENSG00000145536	ADAMTS16	3.556142005	-1.36762152	0.593912032
ENSG00000182179	UBA7	51.73577553	-1.367630448	0.011861667
ENSG00000066056	TIE1	6.260636825	-1.367677974	0.506639684
ENSG00000136488	CSH1	23.4122264	-1.368110358	0.218446647
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ENSG00000168268	NT5DC2	934.0686663	-1.368370002	3.40E-11

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ENSG00000116497	S100PBP	283.0317853	-1.370262173	2.79E-08
ENSG00000175906	ARL4D	247.1776943	-1.370621882	3.15E-07
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ENSG00000111199	TRPV4	346.7077073	-1.371739343	7.16E-06
ENSG00000073734	ABCB11	3.184510831	-1.371976626	0.613042968
ENSG00000165480	SKA3	698.0636271	-1.373300781	1.66E-09
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ENSG00000130940	CASZ1	144.0484389	-1.373491005	9.46E-05
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ENSG00000182272	B4GALNT4	90.31178896	-1.374234108	0.002821299
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ENSG00000184261	KCNK12	4.178826153	-1.374436714	0.620562413
ENSG00000175730	BAK1P1	4.462245141	-1.375653997	0.554157856
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ENSG00000151117	TMEM86A	220.6768767	-1.375860803	0.186569223
ENSG00000269934	AL353593.1	5.128109249	-1.377608215	0.428176623
ENSG00000141542	RAB40B	45.23145906	-1.377878344	0.008938299
ENSG00000117228	GBP1	128.1882129	-1.378045641	0.010749131
ENSG00000136982	DSCC1	232.8276252	-1.378168844	3.11E-07

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ENSG00000011422	PLAUR	763.0171579	-1.37876825	1.36E-09
ENSG00000254815	AP006284.1	17.51127554	-1.379009469	0.117932645
ENSG00000213988	ZNF90	152.1700322	-1.379353105	0.000350032
ENSG00000182742	HOXB4	29.78185374	-1.379798858	0.064482683
ENSG00000153044	CENPH	309.3183478	-1.380403731	0.000132717
ENSG00000197283	SYNGAP1	49.67449081	-1.380977183	0.003087897
ENSG00000204131	NHSL2	18.37863261	-1.381090236	0.160436806
ENSG00000283269	AC005524.1	9.200803561	-1.382486444	0.28904819
ENSG00000225200	AC246787.1	6.212584768	-1.382939653	0.347638225
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ENSG00000072071	ADGRL1	71.56887863	-1.383860252	0.000966739
ENSG00000140263	SORD	41.34656531	-1.384559486	0.055994434
ENSG00000232810	TNF	15.68396934	-1.385248035	0.233124269
ENSG00000133069	TMCC2	15.4136063	-1.385369603	0.290605069
ENSG00000117155	SSX2IP	110.9099648	-1.385977802	0.000355012
ENSG00000204536	CCHCR1	206.2432813	-1.386169879	6.14E-05
ENSG00000163001	CFAP36	179.3701999	-1.386250525	6.89E-05
ENSG00000131470	PSMC3IP	140.2042275	-1.387356524	1.52E-05
ENSG00000255874	LINC00346	54.90244078	-1.388046875	0.003895335
ENSG00000173218	VANGL1	296.1997531	-1.388322051	1.27E-05
ENSG00000205268	PDE7A	249.3817725	-1.388432481	3.58E-06
ENSG00000176225	RTTN	616.7249368	-1.389072983	3.42E-06

ENSG00000065154	OAT	1927.560025	-1.389592531	2.19E-08
ENSG00000042493	CAPG	1815.202081	-1.389824103	1.30E-10
ENSG00000154856	APCDD1	10.66936722	-1.389921512	0.247113751
ENSG00000068079	IFI35	327.9593751	-1.390956395	0.00036801
ENSG00000162999	DUSP19	6.417094675	-1.391155073	0.460307605
ENSG00000269937	AC093525.7	5.597982395	-1.391196691	0.377875985
ENSG00000136167	LCP1	7952.694984	-1.391793853	3.66E-05
ENSG00000070731	ST6GALNAC2	301.4142105	-1.392659768	1.48E-06
ENSG00000234709	UPF3AP3	3.116824264	-1.3927842	0.549187923
ENSG00000099834	CDHR5	3.738869842	-1.392980751	0.510325746
ENSG00000076706	MCAM	5882.148015	-1.393194298	1.72E-13
ENSG00000168778	TCTN2	98.11560622	-1.393872665	5.64E-05
ENSG00000118503	TNFAIP3	4886.223081	-1.394134283	2.82E-11
ENSG00000204420	MPIG6B	33.72652726	-1.394513489	0.051806014
ENSG00000213463	SYNJ2BP	165.2500751	-1.395400628	4.74E-05
ENSG00000153904	DDAH1	488.7780372	-1.395930705	6.64E-11
ENSG00000204866	IGFL2	109.5128701	-1.396029037	0.002727236
ENSG00000166145	SPINT1	11278.08193	-1.396138235	3.77E-15
ENSG00000102934	PLLP	10.99586128	-1.396325384	0.306849012
ENSG00000283154	IQCJ-SCHIP1	106.2270511	-1.396413685	0.000732259
ENSG00000181191	PJA1	416.6548056	-1.397249212	8.61E-09
ENSG00000188921	HACD4	100.7024368	-1.397494902	0.000234351
ENSG00000279699	AC004264.2	2.115725818	-1.397675129	0.72880882
ENSG00000141480	ARRB2	228.8727742	-1.397677335	3.84E-07

ENSG00000177119	ANO6	3767.823216	-1.397935582	7.37E-13
ENSG00000229591	AC006017.1	3.033627903	-1.398090648	0.548387387
ENSG00000185697	MYBL1	71.32820233	-1.398359746	0.012340433
ENSG00000257027	AC010186.3	30.63754057	-1.398526772	0.067925134
ENSG00000244274	DBNDD2	4.470029183	-1.399012676	0.477310286
ENSG00000273449	AC093788.1	3.759628618	-1.399153208	0.482940668
ENSG00000137825	ITPKA	53.13781394	-1.399202489	0.005588196
ENSG00000285106	AC016831.7	4.833572256	-1.399720066	0.441347552
ENSG00000272512	AL645608.7	8.638142745	-1.400130631	0.488513637
ENSG00000276672	AL161891.1	45.26153717	-1.400649411	0.015308933
ENSG00000152240	HAUS1	555.3900972	-1.400744941	8.39E-08
ENSG00000270069	MIR222HG	11.87153999	-1.401469459	0.388437009
ENSG00000185960	SHOX	10.92358916	-1.401538156	0.249382594
ENSG00000079263	SP140	9.845086627	-1.401985016	0.250927315
ENSG00000136098	NEK3	151.993657	-1.402182059	2.13E-06
ENSG00000073111	MCM2	2769.751117	-1.402207151	9.93E-16
ENSG00000095739	BAMBI	131.7125025	-1.404211387	9.40E-05
ENSG00000101311	FERMT1	446.7378396	-1.405315484	7.13E-09
ENSG00000243696	AC006254.1	5.020959895	-1.405484094	0.443199385
ENSG00000101474	APMAP	3117.441312	-1.40633183	2.82E-09
ENSG00000136848	DAB2IP	1320.316698	-1.406510698	9.49E-05
ENSG00000127954	STEAP4	64.84464488	-1.407300126	0.114243971
ENSG00000169783	LINGO1	24.24739346	-1.407342288	0.056124045
ENSG00000204650	LINC02210	58.59226716	-1.407680509	0.003770663

ENSG00000170545	SMAGP	1152.239762	-1.40832355	1.83E-10
ENSG00000101493	ZNF516	73.60029389	-1.408380756	0.006442221
ENSG00000253706	AC011632.1	15.86041773	-1.408398583	0.211677136
ENSG00000146955	RAB19	16.69053603	-1.409158277	0.246903124
ENSG00000130702	LAMA5	5615.937041	-1.409269332	1.34E-13
ENSG00000287031	AC093307.1	12.84370426	-1.409350332	0.136786492
ENSG00000182481	KPNA2	7443.273584	-1.409504969	6.01E-09
ENSG00000138764	CCNG2	441.9683906	-1.409661701	6.12E-06
ENSG00000092096	SLC22A17	78.48997532	-1.409734347	0.011440364
ENSG00000111450	STX2	79.34083242	-1.410122693	0.00048344
ENSG00000197020	ZNF100	215.9206804	-1.410135329	2.51E-05
ENSG00000229970	AC007128.1	39.76929395	-1.4105473	0.014638779
ENSG00000163347	CLDN1	538.957739	-1.410679916	0.000528033
ENSG00000146411	SLC2A12	1974.148439	-1.410789963	2.52E-08
ENSG00000159259	CHAF1B	299.5417954	-1.410830861	1.51E-06
ENSG00000260777	AC061975.1	4.311764261	-1.41086095	0.464839427
ENSG00000074181	NOTCH3	607.2739343	-1.411512438	1.45E-07
ENSG00000165891	E2F7	278.3654603	-1.412071992	8.38E-05
ENSG00000196312	MFSD14C	221.36871	-1.412112513	3.34E-06
ENSG00000110076	NRXN2	62.45473521	-1.412532611	0.007736375
ENSG00000166439	RNF169	191.8037497	-1.412690139	8.47E-05
ENSG00000133302	SLF1	198.7469021	-1.413282618	4.18E-07
ENSG00000196405	EVL	627.5656017	-1.413349661	4.34E-07
ENSG00000134758	RNF138	128.8171399	-1.414455823	0.000394118

ENSG00000196371	FUT4	110.610208	-1.414545469	0.001008205
ENSG00000231007	CDC20P1	15.64625119	-1.415578639	0.157600162
ENSG00000172817	CYP7B1	25.9750477	-1.415704301	0.090758096
ENSG00000179820	MYADM	243.956781	-1.415853973	0.000110278
ENSG00000152359	POC5	200.1429506	-1.416158533	1.56E-07
ENSG00000144554	FANCD2	1160.568739	-1.416503613	2.88E-09
ENSG00000266338	NBPF15	264.554617	-1.416512894	8.94E-06
ENSG00000177732	SOX12	47.07570126	-1.416539505	0.053763156
ENSG00000281903	LINC02246	8.748264872	-1.416669348	0.250286465
ENSG00000163235	TGFA	11.36349208	-1.416904911	0.202423282
ENSG00000145555	MYO10	5729.648248	-1.417107224	1.63E-14
ENSG00000187260	WDR86	67.83824508	-1.417180661	0.007980813
ENSG00000179314	WSCD1	12.23070309	-1.417765854	0.227501783
ENSG00000012963	UBR7	447.0246702	-1.417930426	1.50E-08
ENSG00000165156	ZHX1	158.4310222	-1.4180667	4.13E-05
ENSG00000108830	RND2	48.19416828	-1.418171975	0.023185366
ENSG00000126878	AIF1L	3682.817768	-1.418325783	2.39E-09
ENSG00000239407	Z68871.1	10.93510064	-1.418480181	0.282406391
ENSG00000172137	CALB2	140.0949094	-1.4197324	0.001584478
ENSG00000272316	AL021368.2	10.0935803	-1.419980473	0.254463042
ENSG00000114439	BBX	1711.349362	-1.420147945	5.74E-09
ENSG00000159217	IGF2BP1	3470.216922	-1.420972934	2.18E-11
ENSG00000099617	EFNA2	32.51464538	-1.421065387	0.015457497
ENSG00000169750	RAC3	254.5331595	-1.421177707	2.57E-06

ENSG00000156804	FBXO32	1105.686387	-1.421548174	4.67E-13
ENSG00000010292	NCAPD2	3008.663941	-1.421722489	1.67E-10
ENSG00000231752	EMBP1	13.21146333	-1.422179354	0.169170453
ENSG00000165704	HPRT1	175.0761779	-1.422216976	2.17E-05
ENSG00000021762	OSBPL5	76.16795903	-1.422257749	0.00062548
ENSG00000128641	MYO1B	778.4679249	-1.422430639	8.61E-10
ENSG00000198910	L1CAM	329.0630369	-1.422722632	0.001193902
ENSG00000120693	SMAD9	25.22286745	-1.423220994	0.049545328
ENSG00000180353	HCLS1	150.9820789	-1.42334382	3.65E-06
ENSG00000084444	FAM234B	252.6464647	-1.423441148	3.58E-07
ENSG00000127603	MACF1	5106.075872	-1.424009439	0.000129471
ENSG00000164684	ZNF704	759.6819056	-1.424922302	3.68E-08
ENSG00000079435	LIPE	6.699739924	-1.425084458	0.336634207
ENSG00000261419	AC145285.4	2.536470242	-1.425327389	0.630858771
ENSG00000137942	FNBP1L	2090.199729	-1.425876078	3.51E-13
ENSG00000115504	EHBP1	456.2171762	-1.426526003	3.67E-08
ENSG00000276404	MIR6835	2.358104567	-1.427164506	0.591462683
ENSG00000175564	UCP3	5.124395962	-1.4281199	0.565665453
ENSG00000165887	ANKRD2	5.074988922	-1.429261512	0.436747087
ENSG00000198838	RYR3	19.51039254	-1.429801765	0.077589068
ENSG00000136457	CHAD	26.65488531	-1.430455772	0.060624157
ENSG00000079150	FKBP7	12.46080984	-1.430932731	0.283152726
ENSG00000169330	MINAR1	14.36733986	-1.431542474	0.302947425
ENSG00000279407	AC007191.1	18.50968273	-1.431560132	0.136112496

ENSG00000162174	ASRGL1	13.17929851	-1.431680893	0.248443286
ENSG00000267940	AC022762.2	6.940624774	-1.432163699	0.420144898
ENSG00000146143	PRIM2	611.923362	-1.432413798	1.08E-11
ENSG00000268088	AC093063.1	5.982099302	-1.432996087	0.434396167
ENSG00000235954	TTC28-AS1	152.9622727	-1.433344069	2.41E-05
ENSG00000188811	NHLRC3	517.2797439	-1.433751695	1.27E-07
ENSG00000131697	NPHP4	39.30510244	-1.434003409	0.052627444
ENSG00000112290	WASF1	57.81067571	-1.434513166	0.002760366
ENSG00000138658	ZGRF1	164.436099	-1.434516386	1.94E-06
ENSG00000204516	MICB	24.0215548	-1.434744791	0.225870425
ENSG00000171608	PIK3CD	161.6149267	-1.435405655	6.67E-05
ENSG00000111752	PHC1	1719.604854	-1.435444908	2.73E-08
ENSG00000247735	AC120114.1	11.55166415	-1.436088975	0.289699482
ENSG00000116285	ERRFI1	6369.154628	-1.436560653	6.03E-06
ENSG00000206432	TMEM200C	3.284587156	-1.436656948	0.52286141
ENSG00000138119	MYOF	8189.253076	-1.437228378	1.84E-14
ENSG00000068137	PLEKHH3	375.3259419	-1.437788897	7.40E-06
ENSG00000227934	AL732414.1	9.469353246	-1.437804865	0.311393914
ENSG00000088367	EPB41L1	514.663293	-1.437990752	0.000131376
ENSG00000117226	GBP3	95.65115128	-1.438333906	0.000236269
ENSG00000171320	ESCO2	163.1632067	-1.440773937	1.24E-05
ENSG00000115738	ID2	1609.965733	-1.440783834	1.40E-11
ENSG00000286132	AC022415.2	30.79685831	-1.441493967	0.064278247
ENSG00000138092	CENPO	1117.827116	-1.442071276	1.31E-10

ENSG00000255585	AL590627.1	8.843652251	-1.44254676	0.28957937
ENSG00000205542	TMSB4X	1309.087066	-1.442546895	5.31E-07
ENSG00000117632	STMN1	1369.192899	-1.442598881	1.73E-10
ENSG00000084112	SSH1	1485.88263	-1.442871734	4.30E-06
ENSG00000169683	LRRC45	304.1895999	-1.442908067	1.66E-05
ENSG00000253537	PCDHGA7	7.464746493	-1.443338405	0.364406308
ENSG00000117601	SERPINC1	3.101458196	-1.444055917	0.587512086
ENSG00000286760	AL022069.3	3.47308937	-1.444231285	0.506697327
ENSG00000040341	STAU2	234.3336177	-1.444358973	0.001014605
ENSG00000163249	CCNYL1	816.5949049	-1.445296131	2.04E-10
ENSG00000174516	PELI3	94.1862033	-1.445917652	0.002693604
ENSG00000072864	NDE1	260.3526124	-1.446201579	3.30E-06
ENSG00000041515	MYO16	14.27149015	-1.446267804	0.190244194
ENSG00000053747	LAMA3	63.00263858	-1.446515382	0.053993632
ENSG00000012048	BRCA1	911.5547188	-1.446843069	6.83E-09
ENSG00000124243	BCAS4	100.1729448	-1.44687925	0.003261922
ENSG00000160932	LY6E	12763.85513	-1.447128912	3.16E-08
ENSG00000217165	ANKRD18EP	10.48502724	-1.447261067	0.313539288
ENSG00000094804	CDC6	7160.53404	-1.448078398	1.06E-11
ENSG00000167670	CHAF1A	1396.7041	-1.44852962	1.45E-12
ENSG00000113810	SMC4	2742.556434	-1.449243108	1.46E-11
ENSG00000085999	RAD54L	515.1576017	-1.449891266	3.55E-09
ENSG00000101850	GPR143	49.40628644	-1.449934919	0.026663793
ENSG00000139973	SYT16	317.6751993	-1.450163019	1.06E-06

ENSG00000237886	NALT1	22.5300741	-1.45051782	0.196255662
ENSG00000164402	SEPTIN8	1873.43713	-1.45060077	4.99E-09
ENSG00000004487	KDM1A	5671.573141	-1.450732745	2.32E-07
ENSG00000198945	L3MBTL3	404.9484161	-1.451184371	8.64E-08
ENSG00000163611	SPICE1	13.75850646	-1.451323042	0.152829344
ENSG00000197978	GOLGA6L9	33.50368995	-1.451345862	0.03568728
ENSG00000138794	CASP6	275.0990583	-1.451472295	2.23E-08
ENSG00000198954	KIF1BP	360.9253096	-1.451741253	1.07E-06
ENSG00000138031	ADCY3	263.2425991	-1.45271582	2.51E-08
ENSG00000239911	PRKAG2-AS1	4.389601039	-1.452960018	0.500345328
ENSG00000279863	AC069547.1	9.135584207	-1.453104739	0.315218402
ENSG00000230002	ALMS1-IT1	23.65330043	-1.453311544	0.06369285
ENSG00000150403	TMCO3	875.1047398	-1.453651032	9.63E-11
ENSG00000165730	STOX1	30.87621264	-1.453871351	0.015055748
ENSG00000228716	DHFR	625.0934578	-1.455597882	4.58E-10
ENSG00000212719	LINC02693	73.7689237	-1.455876939	0.010793415
ENSG00000054793	ATP9A	1087.801832	-1.456218014	0.000646936
ENSG00000143515	ATP8B2	131.0176534	-1.456265998	9.16E-05
ENSG00000113070	HBEGF	144.2656145	-1.456307912	0.001470458
ENSG00000186493	C5orf38	111.0365475	-1.456798657	0.000266768
ENSG00000213600	U73169.1	1.651990901	-1.457621833	0.738467414
ENSG00000267943	AC010328.1	12522.51019	-1.457821092	8.77E-07
ENSG00000115705	TPO	12.06001226	-1.457988126	0.174800946
ENSG00000237440	ZNF737	57.43597601	-1.458607785	0.008741252

ENSG00000154309	DISP1	22.11215323	-1.459354267	0.057240151
ENSG00000166473	PKD1L2	43.98264842	-1.460021604	0.009809353
ENSG00000134343	ANO3	9.771256665	-1.460149252	0.248304315
ENSG00000078177	N4BP2	284.0118446	-1.460267622	2.13E-07
ENSG00000143815	LBR	809.7097106	-1.460809376	2.10E-09
ENSG00000140015	KCNH5	7.939473823	-1.461050551	0.268332096
ENSG00000138193	PLCE1	39.5455059	-1.461701065	0.009748708
ENSG00000268510	IFNL3P1	2.483054621	-1.461779086	0.652901122
ENSG00000110148	CCKBR	1139.328543	-1.462238081	0.0001579
ENSG00000067082	KLF6	1072.499833	-1.462242798	5.52E-13
ENSG00000213337	ANKRD39	135.7739784	-1.462751274	1.36E-05
ENSG00000185829	ARL17A	11.26460043	-1.463272873	0.173296946
ENSG00000196562	SULF2	756.0063614	-1.464309144	5.66E-05
ENSG00000142459	EVI5L	738.4538857	-1.464311945	4.67E-07
ENSG00000106665	CLIP2	390.3589079	-1.464920846	0.004688937
ENSG00000287458	AL033519.5	3.127126042	-1.465158292	0.581043271
ENSG00000156587	UBE2L6	600.7151757	-1.466135364	0.00021596
ENSG00000223552	CCR5AS	5.53460943	-1.466562619	0.461378935
ENSG00000087301	TXNDC16	184.0589222	-1.466570515	1.38E-07
ENSG00000123992	DNPEP	582.9754798	-1.466723692	1.41E-10
ENSG00000167916	KRT24	19.00983066	-1.467802987	0.106753788
ENSG00000135378	PRRG4	108.2288454	-1.468438933	6.73E-05
ENSG00000158715	SLC45A3	14.80346495	-1.469239473	0.129274947
ENSG00000117385	P3H1	270.1652009	-1.469550611	1.40E-07

ENSG00000169684	CHRNA5	7.328050481	-1.470308873	0.278675968
ENSG00000162645	GBP2	601.8654899	-1.470575949	7.89E-08
ENSG00000115540	MOB4	265.6207313	-1.470613631	2.80E-06
ENSG00000172986	GXYLT2	29.16140093	-1.47158068	0.126832943
ENSG00000166503	HDGFL3	68.313238	-1.471793986	0.009285506
ENSG00000095002	MSH2	1046.009856	-1.473352592	4.60E-16
ENSG00000231587	SNORD62B	19.92940147	-1.473573812	0.097376368
ENSG00000156374	PCGF6	293.928588	-1.473706325	4.38E-09
ENSG00000180537	RNF182	63.44725697	-1.473757624	0.001745196
ENSG00000261560	AC007216.3	3.156997139	-1.473851153	0.50196996
ENSG00000138182	KIF20B	853.5412033	-1.474148638	5.28E-14
ENSG00000167311	ART5	47.47006896	-1.475283604	0.047464937
ENSG00000175305	CCNE2	84.86200861	-1.475707913	0.002631814
ENSG00000152952	PLOD2	751.6313618	-1.476119828	2.32E-10
ENSG00000122863	CHST3	1142.903799	-1.477193162	1.78E-08
ENSG00000162627	SNX7	90.64361403	-1.477307254	0.000661703
ENSG00000196924	FLNA	6182.243578	-1.477474614	1.92E-10
ENSG00000278899	AL358852.1	2.423886421	-1.479593626	0.626603214
ENSG00000268601	AC115522.1	24.24016829	-1.479937876	0.126913667
ENSG00000064652	SNX24	393.9971764	-1.480248238	1.57E-07
ENSG00000226015	CCT8P1	3.350748334	-1.480493354	0.487176577
ENSG00000111445	RFC5	520.2303548	-1.481608297	4.31E-09
ENSG00000111665	CDCA3	961.4932467	-1.481652966	4.40E-09
ENSG00000213145	CRIP1	5.684193802	-1.482116809	0.352133838

ENSG00000197461	PDGFA	357.8573703	-1.482399528	2.95E-05
ENSG00000117399	CDC20	2629.204314	-1.48257428	1.32E-15
ENSG00000238273	AC108058.1	6.733522575	-1.482670248	0.415247797
ENSG00000169641	LUZP1	1040.243511	-1.482780381	9.93E-07
ENSG00000100593	ISM2	3380.560169	-1.483059192	2.62E-05
ENSG00000255031	AP002807.1	18.17893971	-1.48337219	0.162140033
ENSG00000267886	AC074135.1	22.42808883	-1.483950207	0.07755257
ENSG00000170145	SIK2	251.1748347	-1.48408809	5.36E-07
ENSG00000196230	TUBB	13068.07525	-1.48450511	8.94E-18
ENSG00000151466	SCLT1	193.4097433	-1.484888622	3.21E-06
ENSG00000167513	CDT1	1626.618154	-1.48637578	2.78E-12
ENSG00000172458	IL17D	27.27103804	-1.48658099	0.038334213
ENSG00000049759	NEDD4L	7811.458372	-1.486713933	9.42E-13
ENSG00000100526	CDKN3	232.4901759	-1.486844881	1.19E-07
ENSG00000169242	EFNA1	1472.422678	-1.486938631	7.08E-06
ENSG00000234636	MED14OS	4.197655053	-1.487308892	0.40549546
ENSG00000106100	NOD1	259.74153	-1.487606268	0.000282247
ENSG00000183137	CEP57L1	209.1876809	-1.487886667	9.41E-06
ENSG00000136944	LMX1B	30.65838718	-1.488042977	0.04216052
ENSG00000275560	AC008115.3	7.857173416	-1.488689978	0.336634207
ENSG00000143702	CEP170	104.7713364	-1.488756218	5.22E-05
ENSG00000157110	RBPMS	728.7055165	-1.489066348	1.15E-13
ENSG00000119608	PROX2	3.761362924	-1.490002792	0.522477014
ENSG00000124795	DEK	2570.123327	-1.491714782	7.87E-16

ENSG00000254054	AC087273.2	4.675159747	-1.491737976	0.45030611
ENSG00000105767	CADM4	69.07097578	-1.492143247	0.000488628
ENSG00000278291	AL161772.1	10.93805111	-1.493741735	0.268146053
ENSG00000155858	LSM11	176.2444974	-1.495877434	4.12E-05
ENSG00000080854	IGSF9B	150.2179878	-1.496975818	0.000124183
ENSG00000114446	IFT57	182.338763	-1.497085552	2.46E-05
ENSG00000178726	THBD	11.05747001	-1.498569528	0.237727995
ENSG00000047230	CTPS2	321.9741825	-1.498604481	3.22E-09
ENSG00000206527	HACD2	679.4630247	-1.498680435	5.67E-09
ENSG00000104998	IL27RA	113.6258975	-1.498684753	0.000476196
ENSG00000280099	AL603750.1	31.18800018	-1.499244046	0.028400082
ENSG00000173578	XCR1	42.22739512	-1.499864985	0.078893663
ENSG00000251322	SHANK3	32.23490847	-1.500536875	0.028669088
ENSG00000024422	EHD2	246.2602689	-1.500571817	2.24E-06
ENSG00000230267	HERC2P4	8.850157093	-1.500646286	0.25404093
ENSG00000075131	TIPIN	625.8278496	-1.501155362	5.89E-11
ENSG00000128791	TWSG1	1619.487721	-1.501262707	1.52E-13
ENSG00000143013	LMO4	7341.112816	-1.50129124	2.54E-15
ENSG00000135801	TAF5L	1539.682682	-1.501685012	8.47E-11
ENSG00000180616	SSTR2	12.25859918	-1.502023111	0.179030495
ENSG00000133135	RNF128	729.2094266	-1.502079163	8.39E-08
ENSG00000124613	ZNF391	84.02005362	-1.502252518	0.000295598
ENSG00000163872	YEATS2	394.7674115	-1.502613842	8.66E-07
ENSG00000065060	UHRF1BP1	1493.216414	-1.503076941	7.07E-08

ENSG00000133119	RFC3	1132.043223	-1.503211025	3.63E-16
ENSG00000146858	ZC3HAV1L	54.71030354	-1.503279986	0.004003481
ENSG00000111319	SCNN1A	154.6871322	-1.503660207	0.003607988
ENSG00000121797	CCRL2	16.96623561	-1.504106007	0.127192719
ENSG00000177406	AC021054.1	9.800181861	-1.504765331	0.262087844
ENSG00000004777	ARHGAP33	21.85841674	-1.505241964	0.044862791
ENSG00000108557	RAI1	99.66270325	-1.505483016	0.001481169
ENSG00000164054	SHISA5	7632.863354	-1.505646688	5.86E-20
ENSG00000116062	MSH6	1700.800269	-1.50573267	1.44E-08
ENSG00000279141	AL590226.2	134.5965173	-1.505817726	0.019180181
ENSG00000169752	NRG4	5.095372354	-1.505833978	0.360045257
ENSG00000083290	ULK2	26.40180594	-1.50664362	0.032952202
ENSG00000240006	LINC02004	7.196254229	-1.506731375	0.357980471
ENSG00000111801	BTN3A3	13.99188173	-1.507041456	0.167121689
ENSG00000049283	EPN3	400.1312053	-1.507188914	1.74E-07
ENSG00000197217	ENTPD4	780.9629678	-1.508569897	3.24E-08
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ENSG00000166881	NEMP1	939.6391163	-1.509119657	2.96E-07
ENSG00000170801	HTRA3	79.73028844	-1.509280204	0.000370977
ENSG00000118707	TGIF2	197.358303	-1.509383694	7.30E-07
ENSG00000249863	AC021106.1	10.94865154	-1.510109377	0.19892472
ENSG00000162433	AK4	508.6342915	-1.510295499	0.103170831
ENSG00000089472	HEPH	3.000361632	-1.510536375	0.614265263
ENSG00000203943	SAMD13	2.999875936	-1.5107359	0.616460209

ENSG00000255398	HCAR3	15.71282299	-1.510791174	0.126516719
ENSG00000171456	ASXL1	548.641804	-1.510883291	8.93E-08
ENSG00000134333	LDHA	8853.209329	-1.511302778	7.79E-12
ENSG00000183287	CCBE1	460.0512624	-1.512414958	1.01E-09
ENSG00000146267	FAXC	31.15100117	-1.513081149	0.032848709
ENSG00000167081	PBX3	28.23260347	-1.513258987	0.021723008
ENSG00000107438	PDLIM1	1352.026415	-1.513380259	4.30E-07
ENSG00000132640	BTBD3	471.768459	-1.513475411	2.76E-05
ENSG00000112379	ARFGEF3	331.4311859	-1.513734323	1.66E-06
ENSG00000002834	LASP1	1745.618126	-1.513848006	6.38E-12
ENSG00000280347	AC000123.3	16.28657116	-1.514027322	0.154081726
ENSG00000105398	SULT2A1	206.8594885	-1.514558439	0.00088573
ENSG00000130528	HRC	3.408261376	-1.514880057	0.602511664
ENSG00000244509	APOBEC3C	506.598006	-1.516410747	3.81E-11
ENSG00000262678	AC004771.5	4.360106826	-1.516761343	0.41431109
ENSG00000112619	PRPH2	13.86416744	-1.517182154	0.132207981
ENSG00000262576	PCDHGA4	3.034276778	-1.518042825	0.558243851
ENSG00000147041	SYTL5	481.1718061	-1.518204274	1.73E-07
ENSG00000273261	AC092953.2	2.460867519	-1.518209152	0.604474275
ENSG00000186350	RXRA	3116.194062	-1.51901795	8.73E-10
ENSG00000169598	DFFB	79.0545116	-1.520065141	0.000736167
ENSG00000008517	IL32	215.6643467	-1.520541633	9.86E-05
ENSG00000179222	MAGED1	6688.448843	-1.52091278	1.61E-10
ENSG00000119888	EPCAM	1794.068761	-1.521057662	6.66E-14

ENSG00000116830	TTF2	474.9135447	-1.521191256	5.15E-11
ENSG00000188610	FAM72B	71.30269069	-1.521499063	0.012593206
ENSG00000186340	THBS2	1.921417642	-1.521919399	0.68162475
ENSG00000233215	LINC01687	26.44025481	-1.52347112	0.032692478
ENSG00000096093	EFHC1	64.99245615	-1.523613843	0.001207062
ENSG00000118971	CCND2	12.86391883	-1.524213133	0.24814635
ENSG00000166173	LARP6	27.24010304	-1.524639853	0.023525345
ENSG00000167191	GPRC5B	94.8992441	-1.525123124	0.000562942
ENSG00000169105	CHST14	254.805895	-1.525754877	9.30E-05
ENSG00000170915	PAQR8	30.78597367	-1.525799232	0.018787284
ENSG00000196550	FAM72A	61.86736038	-1.52607609	0.005331791
ENSG00000176658	MYO1D	3364.442167	-1.526141511	3.63E-12
ENSG00000002549	LAP3	1457.627416	-1.528704692	9.14E-06
ENSG00000145362	ANK2	32.16073533	-1.52879028	0.017489426
ENSG00000249456	AL731577.2	10.67830163	-1.528796297	0.202043076
ENSG00000168036	CTNNB1	51835.61808	-1.528807855	3.58E-13
ENSG00000103047	TANGO6	141.2971643	-1.529196109	2.56E-07
ENSG00000113430	IRX4	1678.664936	-1.529351119	5.88E-08
ENSG00000132669	RIN2	209.4884419	-1.530532664	0.000226841
ENSG00000141569	TRIM65	93.38857129	-1.532321726	0.008112149
ENSG00000108375	RNF43	49.90507125	-1.533243693	0.008163819
ENSG00000157703	SVOPL	40.02230345	-1.537329835	0.030403913
ENSG00000100242	SUN2	921.4095694	-1.538655489	6.52E-11
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ENSG00000277462	ZNF670	53.5472362	-1.539314834	0.022447325
ENSG00000188026	RILPL1	604.0869153	-1.539585478	3.39E-12
ENSG00000205221	VIT	20.59745589	-1.539669138	0.265209691
ENSG00000178761	FAM219B	265.2162669	-1.540070667	3.51E-05
ENSG00000173517	PEAK1	893.9164684	-1.540238464	4.31E-09
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ENSG00000154930	ACSS1	154.9959908	-1.540737671	0.00045459
ENSG00000256443	AP003559.1	12.53969724	-1.54094211	0.22188164
ENSG00000196576	PLXNB2	1955.182669	-1.541509452	2.63E-10
ENSG00000111275	ALDH2	363.6458565	-1.541590204	8.09E-12
ENSG00000104213	PDGFRL	121.6305724	-1.541626864	6.00E-05
ENSG00000106333	PCOLCE	28.71184067	-1.542337275	0.027609848
ENSG00000167617	CDC42EP5	13.46971152	-1.542372515	0.139980204
ENSG00000169964	TMEM42	19.3480334	-1.542703839	0.082222302
ENSG00000189127	ANKRD34B	1.73044343	-1.543003123	0.719931202
ENSG00000198919	DZIP3	205.6004628	-1.543122661	4.95E-07
ENSG00000148677	ANKRD1	83.32700023	-1.543250945	0.033795889
ENSG00000102024	PLS3	3130.265604	-1.544394736	5.42E-12
ENSG00000275216	AL161431.1	148.5703567	-1.544900595	0.172741369
ENSG00000142449	FBN3	3.456197914	-1.545243882	0.521116026
ENSG00000267546	AC015802.4	3.569446082	-1.545896895	0.509209601
ENSG00000163689	C3orf67	9.630664309	-1.545949854	0.252265231
ENSG00000196935	SRGAP1	150.5889316	-1.547658784	3.90E-05
ENSG00000172465	TCEAL1	33.43035864	-1.547912461	0.020452608

ENSG00000125170	DOK4	227.5728683	-1.548026069	0.000480988
ENSG00000187815	ZFP69	27.37707409	-1.549306967	0.021474235
ENSG00000164120	HPGD	456.7942011	-1.549891344	0.000447271
ENSG00000270441	AC135506.1	7.430727058	-1.550410271	0.274749543
ENSG00000270878	AL136038.4	7.834464803	-1.550985067	0.408358441
ENSG00000008311	AASS	512.2251056	-1.551637406	6.19E-08
ENSG00000214223	HNRNPA1P10	62.2193801	-1.552443361	0.001426339
ENSG00000157827	FMNL2	2516.184606	-1.55298378	1.10E-14
ENSG00000165029	ABCA1	107.5078139	-1.55299817	0.000437579
ENSG00000281344	HELLPAR	11.62381022	-1.553218606	0.135025055
ENSG00000256802	AC022613.1	3.660085649	-1.554172141	0.448641407
ENSG00000197782	ZNF780A	69.22378119	-1.554526369	0.000245249
ENSG00000129810	SGO1	135.4487937	-1.555413335	5.06E-07
ENSG00000146918	NCAPG2	1178.78599	-1.555452778	7.00E-15
ENSG00000272779	AC245060.4	3.294880168	-1.555822885	0.499065278
ENSG00000164953	TMEM67	25.00586317	-1.556618311	0.036949172
ENSG00000085831	TTC39A	609.2845173	-1.557390288	1.35E-07
ENSG00000105971	CAV2	152.4055444	-1.557460141	1.19E-05
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ENSG00000102189	EEA1	1819.375209	-1.557859464	7.96E-08
ENSG00000215045	GRID2IP	5.629468973	-1.558782979	0.367272257
ENSG00000256229	ZNF486	267.2604837	-1.558799795	4.13E-05
ENSG00000000460	C1orf112	335.7037313	-1.559045867	7.51E-11
ENSG00000229676	ZNF492	31.20119082	-1.559111273	0.028820613

ENSG00000231519	AC007285.2	7.759350217	-1.559122437	0.27831119
ENSG00000009780	FAM76A	471.094259	-1.559175695	2.83E-07
ENSG00000142875	PRKACB	68.07912318	-1.560021265	0.007487406
ENSG00000128268	MGAT3	1496.146483	-1.560963532	1.05E-09
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ENSG00000132879	FBXO44	83.70242008	-1.561914477	0.005216871
ENSG00000103319	EEF2K	450.6613351	-1.561946134	3.26E-09
ENSG00000140057	AK7	123.8164432	-1.563803522	0.000323351
ENSG00000022556	NLRP2	21664.45257	-1.564199739	1.21E-09
ENSG00000276170	AC244153.1	80.84655403	-1.56432983	0.002435013
ENSG00000091651	ORC6	630.1759231	-1.565318897	1.97E-09
ENSG00000105750	ZNF85	150.8165687	-1.566074928	1.25E-05
ENSG00000173166	RAPH1	433.5388451	-1.566930418	2.15E-05
ENSG00000215158	AC138409.2	26.656625	-1.56763326	0.072678492
ENSG00000169047	IRS1	374.8653814	-1.570429237	1.18E-05
ENSG00000169515	CCDC8	68.57069735	-1.570722042	0.005058412
ENSG00000263513	FAM72C	20.09811934	-1.571508641	0.060167611
ENSG00000143382	ADAMTSL4	4417.074716	-1.572404757	1.20E-11
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ENSG00000247317	LY6E-DT	32.69938736	-1.572643606	0.096149561
ENSG00000151702	FLI1	16.43166279	-1.573711214	0.112086573
ENSG00000107186	MPDZ	357.3255494	-1.573975049	2.27E-08
ENSG00000137699	TRIM29	469.2299009	-1.574081996	1.01E-07
ENSG00000148655	LRMDA	8.605466799	-1.574341704	0.185336904

ENSG00000151693	ASAP2	291.4105866	-1.57546221	4.51E-05
ENSG00000129951	PLPPR3	25.02946505	-1.576056554	0.023828523
ENSG00000088387	DOCK9	9417.30315	-1.576205541	2.93E-13
ENSG00000025293	PHF20	561.8706138	-1.576271719	1.79E-12
ENSG00000166801	FAM111A	53.5411447	-1.577620087	0.040320658
ENSG00000239203	AC093484.1	13.69058802	-1.580964573	0.182882009
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ENSG00000079257	LXN	77.12696626	-1.582569646	3.53E-05
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ENSG00000182054	IDH2	5054.882025	-1.583999896	1.62E-06
ENSG00000248445	SEMA6A-AS1	10.9760804	-1.584483479	0.145417166
ENSG00000136824	SMC2	1278.184395	-1.585500049	1.87E-13
ENSG00000186369	LINC00643	616.2395123	-1.586562929	2.30E-09
ENSG00000180938	ZNF572	11.82498709	-1.587274484	0.127665151
ENSG00000280355	AL132656.4	6.106244742	-1.587878541	0.308375783
ENSG00000135374	ELF5	177.4341796	-1.588892375	3.87E-06
ENSG00000100038	TOP3B	3.956447304	-1.589141335	0.499798795
ENSG00000125247	TMTC4	269.3140994	-1.589577126	5.95E-09
ENSG00000254363	AC011379.2	22.07589238	-1.589773883	0.036120587
ENSG00000165304	MELK	4507.04036	-1.590111898	5.14E-14
ENSG00000177494	ZBED2	29.75414256	-1.590211194	0.051466992

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ENSG00000255302	EID1	329.9867828	-1.59282971	7.15E-11
ENSG00000187889	FYB2	5.320632815	-1.593026237	0.422718476
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ENSG00000143776	CDC42BPA	370.7270351	-1.594895209	9.43E-09
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ENSG00000164849	GPR146	48.49214194	-1.595313951	0.001512326
ENSG00000179750	APOBEC3B	149.7445611	-1.596486157	1.47E-05
ENSG00000271843	AC012557.1	15.16675136	-1.596615499	0.154616143
ENSG00000131127	ZNF141	120.3934573	-1.596739514	3.38E-05
ENSG00000159023	EPB41	502.9541951	-1.597845413	0.000288288
ENSG00000258376	AC004846.1	24.49806215	-1.597938749	0.075998918
ENSG00000231925	TAPBP	1629.473465	-1.598115627	1.71E-12
ENSG00000196466	ZNF799	113.6315954	-1.600254877	3.51E-05
ENSG00000174500	GCSAM	40.00986095	-1.600384894	0.005610576
ENSG00000178752	ERFE	5.762809128	-1.601217134	0.377875985
ENSG00000108984	MAP2K6	158.5329442	-1.602235137	3.47E-07
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ENSG00000174469	CNTNAP2	123.7177415	-1.604603325	1.56E-05
ENSG00000168807	SNTB2	350.6704547	-1.605027968	3.09E-11
ENSG00000102452	NALCN	16.07508121	-1.605788457	0.068376403
ENSG00000267481	AC011477.2	7.244444846	-1.606190167	0.248236044
ENSG00000166734	CASC4	427.743467	-1.60643967	2.89E-10
ENSG00000149927	DOC2A	29.97271213	-1.607345908	0.084874214
ENSG00000180535	BHLHA15	151.6105228	-1.609096491	0.000587726
ENSG00000126822	PLEKHG3	1477.576545	-1.609154025	5.65E-15
ENSG00000170561	IRX2	655.5437766	-1.610162915	5.59E-13
ENSG00000279833	AL031846.2	11.63668982	-1.610517031	0.128448835
ENSG00000161791	FMNL3	171.0547255	-1.610605708	6.38E-05
ENSG00000122786	CALD1	4666.017561	-1.611260622	2.40E-17
ENSG00000163286	ALPG	105.1035823	-1.611304365	0.000576156
ENSG00000159339	PADI4	7.368377387	-1.611691947	0.245733862
ENSG00000188643	S100A16	487.9191943	-1.612087947	1.16E-05
ENSG00000231528	FAM225A	17.36417791	-1.612310039	0.048903793
ENSG00000135678	CPM	8388.113784	-1.612428355	5.74E-11
ENSG00000170775	GPR37	323.8961645	-1.61254095	2.71E-07
ENSG00000272419	LINC01145	17.83421956	-1.612573684	0.06263269
ENSG00000149474	KAT14	508.8796461	-1.612891979	1.08E-07
ENSG00000039523	RIPOR1	228.1829666	-1.613030264	0.000543018
ENSG00000160229	ZNF66	32.68983953	-1.613439133	0.037401327

ENSG00000176046	NUPR1	3001.917812	-1.613622288	2.75E-10
ENSG00000032742	IFT88	103.7007706	-1.61507461	7.11E-05
ENSG00000127990	SGCE	346.3143538	-1.61519273	8.78E-08
ENSG00000092345	DAZL	7.597932969	-1.615568805	0.288073379
ENSG00000087303	NID2	26.5339504	-1.616160452	0.031338756
ENSG00000071539	TRIP13	745.8012728	-1.617551964	2.86E-14
ENSG00000214955	AP000317.1	5.691259222	-1.619470232	0.315432329
ENSG00000106351	AGFG2	171.1075164	-1.620677275	2.76E-05
ENSG00000011677	GABRA3	5.203360049	-1.62083451	0.349471874
ENSG00000134871	COL4A2	18299.72773	-1.62087282	9.79E-18
ENSG00000102547	CAB39L	730.745694	-1.621130492	6.08E-10
ENSG00000267922	AC007785.1	3.314067435	-1.621934113	0.487228814
ENSG00000268942	CKS1BP3	8.735738657	-1.622363779	0.178357884
ENSG00000197355	UAP1L1	173.3251491	-1.624771082	2.02E-05
ENSG00000133740	E2F5	62.4719867	-1.625343833	0.003374402
ENSG00000237423	LINC01522	9.440478503	-1.625565222	0.238558878
ENSG00000028137	TNFRSF1B	27344.51051	-1.626165021	5.21E-17
ENSG00000101115	SALL4	445.3202089	-1.626256799	5.92E-07
ENSG00000170989	S1PR1	10.00312998	-1.626674347	0.270095805
ENSG00000159842	ABR	3841.540887	-1.627407525	1.84E-14
ENSG00000033122	LRRC7	2.617218038	-1.627802298	0.523304739
ENSG00000226419	SLC16A1-AS1	17.9861919	-1.628177759	0.072114155
ENSG00000117525	F3	175.4836118	-1.628483507	0.000560097
ENSG00000214049	UCA1	1849.773115	-1.629087596	1.25E-05

ENSG00000168944	CEP120	176.5596522	-1.629535665	4.73E-08
ENSG00000172167	MTBP	96.99200116	-1.631203424	1.15E-05
ENSG00000116678	LEPR	287.6195756	-1.6314284	0.003217237
ENSG00000204789	ZNF204P	124.8098139	-1.63164656	7.51E-07
ENSG00000188266	HYKK	33.25877862	-1.632609298	0.006848994
ENSG00000143228	NUF2	504.8177311	-1.632827428	8.12E-14
ENSG00000099953	MMP11	23.36365261	-1.633480389	0.175375527
ENSG00000146376	ARHGAP18	6678.518326	-1.634102049	2.07E-12
ENSG00000180209	MYLPF	45.29091273	-1.634223963	0.012304912
ENSG00000259479	SORD2P	4.037213558	-1.636111564	0.450516982
ENSG00000170160	CCDC144A	18.25249597	-1.636126421	0.117898468
ENSG00000132688	NES	136.9583379	-1.636805012	1.80E-05
ENSG00000140534	TICRR	709.5753945	-1.637621235	8.44E-08
ENSG00000255571	MIR9-3HG	171.1252884	-1.638309357	0.00085584
ENSG00000166147	FBN1	346.0196569	-1.639370957	0.001447442
ENSG00000140092	FBLN5	132.2903434	-1.639433221	0.001952044
ENSG00000130595	TNNT3	42.98492015	-1.639767132	0.002391604
ENSG00000175216	CKAP5	9183.002367	-1.639823696	8.55E-10
ENSG00000235910	APOA1-AS	3.437445436	-1.640369371	0.519978846
ENSG00000254951	AC044810.2	30.88270618	-1.640432065	0.02719272
ENSG00000225548	LINC01980	5.669314969	-1.641012662	0.336241674
ENSG00000041353	RAB27B	78.06938409	-1.641145498	0.002760061
ENSG00000121621	KIF18A	231.8480015	-1.64142036	6.70E-08
ENSG00000198743	SLC5A3	463.1081169	-1.641512646	6.76E-06

ENSG00000151651	ADAM8	5496.874745	-1.64239289	1.34E-11
ENSG00000173809	TDRD12	4.268590746	-1.642747762	0.399497309
ENSG00000133398	MED10	1723.365348	-1.64297235	1.87E-18
ENSG00000243811	APOBEC3D	3.245051664	-1.643850564	0.503424206
ENSG00000154640	BTG3	4513.629914	-1.644846029	7.53E-12
ENSG00000111885	MAN1A1	82.99989191	-1.645454853	0.001612145
ENSG00000212658	KRTAP29-1	2.058186097	-1.64624758	0.685870394
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ENSG00000163535	SGO2	387.1159625	-1.646615592	1.78E-13
ENSG00000110881	ASIC1	60.61750472	-1.647631799	0.000187806
ENSG00000124181	PLCG1	631.7086523	-1.648170512	1.39E-14
ENSG00000141068	KSR1	2364.817473	-1.648268404	1.02E-14
ENSG00000173898	SPTBN2	31.09287592	-1.648521583	0.022044798
ENSG00000196456	ZNF775	21.12553965	-1.648528094	0.047358073
ENSG00000147852	VLDLR	540.3668524	-1.648635285	4.42E-07
ENSG00000170255	MRGPRX1	3109.038164	-1.648766026	0.045094703
ENSG00000167363	FN3K	298.5322213	-1.649696217	3.84E-08
ENSG00000126861	OMG	62.65652801	-1.651558686	0.052345384
ENSG00000134463	ECHDC3	59.49768027	-1.654191991	0.000450735
ENSG00000225265	TAF1A-AS1	7.431137065	-1.655702674	0.295526144
ENSG00000137337	MDC1	1224.649628	-1.656113948	1.28E-08
ENSG00000196843	ARID5A	84.06785998	-1.656334372	0.002348475
ENSG00000148344	PTGES	6007.517704	-1.656473707	2.36E-19
ENSG00000235609	AF127577.4	13.57222167	-1.656497387	0.070492743

ENSG00000166963	MAP1A	191.5906269	-1.656931538	0.00087244
ENSG00000235795	AC093157.2	5.293542682	-1.657107025	0.382530237
ENSG00000154380	ENAH	2387.652515	-1.657225916	1.19E-10
ENSG00000125657	TNFSF9	39.4359371	-1.657345062	0.068821716
ENSG00000113758	DBN1	525.5216176	-1.658130196	3.04E-08
ENSG00000275342	PRAG1	135.1020641	-1.658416295	0.002110522
ENSG00000067445	TRO	3.684513131	-1.65875501	0.449804331
ENSG00000056050	HPF1	167.7828601	-1.658812481	8.91E-07
ENSG00000119969	HELLS	590.6761135	-1.659367041	3.22E-16
ENSG00000138160	KIF11	1024.363357	-1.659948002	1.15E-16
ENSG00000130475	FCHO1	32.50311367	-1.660362858	0.007433121
ENSG00000184445	KNTC1	1231.107137	-1.660688832	1.02E-13
ENSG00000186951	PPARA	337.9810235	-1.660897105	2.46E-05
ENSG00000149150	SLC43A1	131.9074961	-1.660976537	0.007737716
ENSG00000138036	DYNC2LI1	102.4853569	-1.661638392	2.31E-06
ENSG00000184557	SOCS3	931.9085855	-1.661866922	1.08E-08
ENSG00000164078	MST1R	157.1336824	-1.662143541	1.27E-05
ENSG00000206557	TRIM71	1626.834174	-1.662364681	4.32E-08
ENSG00000007968	E2F2	537.8185597	-1.664293421	3.26E-15
ENSG00000270871	AC015849.3	5.732456316	-1.664808913	0.321521381
ENSG00000272734	ADIRF-AS1	82.11153285	-1.665784916	8.61E-05
ENSG00000160200	CBS	280.9096455	-1.666062431	1.07E-06
ENSG00000058335	RASGRF1	141.3287036	-1.666194719	0.000669517
ENSG00000261799	AC007406.5	18.44990711	-1.667023586	0.068175168

ENSG00000075218	GTSE1	657.664101	-1.667282019	8.98E-12
ENSG00000184856	LINC00308	5.433725764	-1.66773453	0.367964143
ENSG00000089847	ANKRD24	116.5651818	-1.668286756	0.007603641
ENSG00000197121	PGAP1	373.8978605	-1.66832833	7.61E-07
ENSG00000163209	SPRR3	81.22624445	-1.670349783	4.57E-05
ENSG00000124507	PACSIN1	13.63514801	-1.670762324	0.190563983
ENSG00000174804	FZD4	45.04169275	-1.671131088	0.001375605
ENSG00000138376	BARD1	295.8237732	-1.671901538	1.90E-08
ENSG00000207864	MIR27B	9.466880085	-1.672311828	0.198819542
ENSG00000110395	CBL	1249.271874	-1.672471097	1.32E-08
ENSG00000226887	ERVMER34-1	1687.621185	-1.672803666	1.24E-06
ENSG00000135124	P2RX4	1128.366602	-1.673090148	9.42E-13
ENSG00000280173	AC104447.1	7.40115372	-1.673606347	0.349316192
ENSG00000014138	POLA2	128.0663207	-1.67443767	8.87E-05
ENSG00000275029	HMGB1P24	9.478062356	-1.674548625	0.199586891
ENSG00000196498	NCOR2	2166.344706	-1.675061905	1.46E-14
ENSG00000131435	PDLIM4	135.4753045	-1.675385962	0.000188799
ENSG00000166689	PLEKHA7	870.6049525	-1.677461707	7.33E-10
ENSG00000144283	PKP4	238.8951599	-1.677967256	2.94E-09
ENSG00000076003	MCM6	1948.538823	-1.679224894	2.75E-15
ENSG00000005189	REXO5	56.59981308	-1.679708131	0.00385663
ENSG00000102882	MAPK3	1053.009002	-1.679826943	2.09E-19
ENSG00000165244	ZNF367	220.8648418	-1.679851116	9.28E-07
ENSG00000161533	ACOX1	4538.606334	-1.680052131	5.66E-15

ENSG00000227606	AC005392.1	10.21195499	-1.680798069	0.148150445
ENSG00000187608	ISG15	4586.358109	-1.681142252	2.80E-10
ENSG00000235257	ITGA9-AS1	7.135790482	-1.681156536	0.243724151
ENSG00000189334	S100A14	163.8969635	-1.681661498	0.001080695
ENSG00000133026	MYH10	3693.015035	-1.683288033	6.92E-15
ENSG00000249485	RBBP4P1	3.530610372	-1.685401353	0.412203335
ENSG00000103490	PYCARD	7.261307278	-1.686548847	0.213730149
ENSG00000163219	ARHGAP25	3.722913789	-1.68667664	0.460741987
ENSG00000144355	DLX1	3.923000322	-1.68703056	0.402731923
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ENSG00000140832	MARVELD3	241.5360979	-1.688128564	3.52E-06
ENSG00000149948	HMGA2	66.65261269	-1.688424698	0.000750405
ENSG00000257298	AC008147.2	3.952332895	-1.689076182	0.484061606
ENSG00000132517	SLC52A1	2742.604241	-1.689718375	8.34E-07
ENSG00000106692	FKTN	180.615672	-1.689769984	1.63E-09
ENSG00000150394	CDH8	20.6922086	-1.690433589	0.04028694
ENSG00000123240	OPTN	1174.38573	-1.691668515	2.09E-12
ENSG00000118620	ZNF430	118.4015068	-1.693729573	4.56E-05
ENSG00000115365	LANCL1	349.8910119	-1.694451322	2.22E-08
ENSG00000237025	AL121601.2	2.092966263	-1.69495675	0.63522791
ENSG00000255980	AP000439.2	2.620471951	-1.695482256	0.489348569
ENSG00000139734	DIAPH3	1146.597626	-1.695903432	4.50E-18
ENSG00000188677	PARVB	17.29532648	-1.696784758	0.062365632

ENSG00000180884	ZNF792	15.49176436	-1.696990075	0.151736192
ENSG00000167325	RRM1	3922.530556	-1.697180316	8.81E-23
ENSG00000106868	SUSD1	863.4688419	-1.69752056	7.43E-18
ENSG00000124343	XG	5.643956087	-1.700548693	0.305313147
ENSG00000198707	CEP290	119.7422422	-1.700667502	5.79E-06
ENSG00000152078	TLCD4	19.01470441	-1.700952512	0.060097188
ENSG00000174007	CEP19	21.51113195	-1.70103135	0.043912543
ENSG00000128045	RASL11B	22.8821288	-1.702341113	0.037914706
ENSG00000283930	AL117339.5	2.722605481	-1.702741174	0.481495633
ENSG00000164465	DCBLD1	317.7385347	-1.702780922	3.22E-09
ENSG00000082512	TRAF5	16.96623707	-1.704781464	0.073885893
ENSG00000197472	ZNF695	30.78101733	-1.704999235	0.023586159
ENSG00000106536	POU6F2	12.01628548	-1.705133422	0.160438072
ENSG00000148143	ZNF462	165.6087227	-1.705782878	5.85E-09
ENSG00000109794	FAM149A	19.66973948	-1.705848733	0.03222913
ENSG00000130638	ATXN10	955.8083424	-1.706663382	6.06E-13
ENSG00000168763	CNNM3	628.9527061	-1.706921265	5.69E-11
ENSG00000267122	AC004490.1	2.92275415	-1.707385829	0.473676159
ENSG00000259362	AC046168.1	32.91519028	-1.70765386	0.009065455
ENSG00000186567	CEACAM19	14.68272016	-1.707819516	0.140868104
ENSG00000247081	BAALC-AS1	17.18950725	-1.708152619	0.082774479
ENSG00000084110	HAL	1.668330282	-1.709053095	0.691945942
ENSG00000148737	TCF7L2	612.6689809	-1.709636562	8.53E-11
ENSG00000114346	ECT2	2003.844216	-1.710245256	2.50E-17

ENSG00000117602	RCAN3	429.3613512	-1.710289721	1.70E-12
ENSG00000164985	PSIP1	715.6778923	-1.71035641	1.68E-13
ENSG00000168124	OR1F1	10.10705424	-1.710589931	0.215461633
ENSG00000101680	LAMA1	3186.697743	-1.712617477	8.00E-13
ENSG00000179546	HTR1D	303.9469336	-1.713001103	6.81E-12
ENSG00000186638	KIF24	111.1644937	-1.713323543	1.98E-06
ENSG00000286134	AC114930.1	6.62624961	-1.713378079	0.486633432
ENSG00000121211	MND1	80.43856949	-1.71410471	0.000330969
ENSG00000105339	DENND3	103.0861453	-1.714867563	3.76E-06
ENSG00000085840	ORC1	1331.942765	-1.715176205	1.12E-15
ENSG00000276850	AC245041.2	147.8110532	-1.715256794	0.000866401
ENSG00000255843	AP000593.3	7.026916583	-1.715599754	0.238020512
ENSG00000004399	PLXND1	7810.900452	-1.71727578	1.20E-18
ENSG00000126001	CEP250	340.0701308	-1.717879968	4.05E-11
ENSG00000130816	DNMT1	12949.1895	-1.720782048	1.23E-18
ENSG00000173262	SLC2A14	98.43769738	-1.721360446	8.22E-06
ENSG00000281571	AC241585.2	5.042684472	-1.721516301	0.42016259
ENSG00000259702	AC024337.1	8.258948955	-1.722334131	0.169539799
ENSG00000163406	SLC15A2	12.24536262	-1.722682675	0.148812517
ENSG00000123416	TUBA1B	5844.488446	-1.722946226	1.05E-18
ENSG00000158402	CDC25C	259.8817843	-1.723354625	8.79E-08
ENSG00000170955	CAVIN3	7.204368772	-1.725163842	0.283421504
ENSG00000072110	ACTN1	5279.979055	-1.725697469	1.14E-11
ENSG00000101187	SLCO4A1	200.432624	-1.725964431	0.000197859

ENSG00000231561	CEACAMP5	19.69210251	-1.726631485	0.059505551
ENSG00000287202	AC008119.1	8.377015839	-1.727126146	0.151007696
ENSG00000135451	TROAP	488.9929772	-1.727739626	5.33E-14
ENSG00000185909	KLHDC8B	1021.168632	-1.72781809	2.16E-06
ENSG00000188112	C6orf132	208.2846174	-1.728453739	9.74E-05
ENSG00000100473	COCH	142.4432027	-1.73020267	9.94E-06
ENSG00000188343	FAM92A	80.6614591	-1.730499175	0.000560718
ENSG00000125618	PAX8	15.696539	-1.730709698	0.08998042
ENSG00000183378	OVCH2	32.24852056	-1.730992549	0.005697559
ENSG00000110057	UNC93B1	366.7936895	-1.731163	8.07E-09
ENSG00000164114	MAP9	12.11248328	-1.731400019	0.153601403
ENSG00000112742	TTK	1391.768936	-1.731574085	2.36E-15
ENSG00000166845	C18orf54	281.6873115	-1.732938357	4.20E-09
ENSG00000272100	AL513218.1	3.921185965	-1.732948953	0.39819246
ENSG00000224079	AC091729.1	2.981805327	-1.733159895	0.521203456
ENSG00000204792	LINC01291	4.874594702	-1.733222935	0.336542113
ENSG00000151718	WWC2	499.0795437	-1.734248077	4.81E-08
ENSG00000174945	AMZ1	11.46515124	-1.734258935	0.084184389
ENSG00000137309	HMGA1	21595.90752	-1.735763944	1.35E-22
ENSG00000122861	PLAU	497.9260028	-1.736541052	2.30E-12
ENSG00000189398	OR7E12P	6.433649038	-1.736741173	0.374574863
ENSG00000125266	EFNB2	286.5348374	-1.737289806	6.42E-07
ENSG00000185650	ZFP36L1	6175.37421	-1.737634957	2.98E-18
ENSG00000187098	MITF	84.84185538	-1.738010314	6.60E-05

ENSG00000282306	AC073488.7	3.621817225	-1.738376673	0.430421494
ENSG00000114529	C3orf52	1147.686626	-1.73918588	2.85E-09
ENSG00000279203	AC005785.2	3.625861275	-1.739636243	0.423803248
ENSG00000163596	ICA1L	75.64512684	-1.74116485	0.00031177
ENSG00000132849	PATJ	1029.920823	-1.744083416	3.21E-15
ENSG00000223960	CHROMR	37.38800115	-1.74430881	0.005118835
ENSG00000160111	CPAMD8	231.6309115	-1.744374386	4.98E-11
ENSG00000164045	CDC25A	756.1909546	-1.744453205	1.92E-13
ENSG00000125551	PLGLB2	7.483106447	-1.745385896	0.322517958
ENSG00000058063	ATP11B	721.4766542	-1.745621808	1.37E-07
ENSG00000114019	AMOTL2	2249.088564	-1.746126698	2.89E-11
ENSG00000270062	AL606834.2	3.649154186	-1.746306114	0.381760587
ENSG00000184292	TACSTD2	2528.438974	-1.746338528	1.17E-16
ENSG00000130052	STARD8	375.549517	-1.746651645	0.000127055
ENSG00000184697	CLDN6	6598.487715	-1.74699955	2.39E-14
ENSG00000278765	AC004477.3	4.609141108	-1.747557901	0.332748714
ENSG00000152642	GPD1L	204.4533973	-1.748115904	3.86E-06
ENSG00000223511	AL683807.1	6.733307672	-1.748286479	0.333099476
ENSG00000223685	LINC00571	2.793455605	-1.749980532	0.525294907
ENSG00000129028	THAP10	8.514360727	-1.7500087	0.304603152
ENSG00000250302	LINC01618	13.94309737	-1.750075791	0.135497181
ENSG00000214826	DDX12P	189.7109178	-1.750165732	1.06E-05
ENSG00000169621	APLF	21.64433399	-1.750237222	0.041185255
ENSG00000182534	MXRA7	678.9456246	-1.750916312	1.77E-11

ENSG00000072840	EVC	39.9338369	-1.751414421	0.010757577
ENSG00000111961	SASH1	1115.478043	-1.751483516	5.74E-06
ENSG00000102931	ARL2BP	4.518501541	-1.751563154	0.365961408
ENSG00000261188	Z95115.1	5.788949119	-1.753205888	0.229896122
ENSG00000166004	CEP295	238.6091408	-1.753942268	1.94E-10
ENSG00000178802	MPI	483.9602687	-1.755099071	1.21E-13
ENSG00000168386	FILIP1L	90.43725919	-1.756575611	0.000185984
ENSG00000242615	AC022415.1	7.332466367	-1.756591805	0.210054445
ENSG00000025423	HSD17B6	16.94163793	-1.756606943	0.134478763
ENSG00000237417	XRCC6P1	6.00629821	-1.756776438	0.272945458
ENSG00000136155	SCEL	5.159096198	-1.75687755	0.386194779
ENSG00000259291	ZNF710-AS1	37.61337742	-1.757034481	0.054172207
ENSG00000057019	DCBLD2	211.2875128	-1.757468066	7.92E-07
ENSG00000128872	TMOD2	15.09123783	-1.758712702	0.053789467
ENSG00000259668	AC066613.1	14.97596944	-1.759010653	0.074859264
ENSG00000243167	RPS10P28	12.15857632	-1.759338404	0.12229538
ENSG00000269388	AC018755.3	8.857453989	-1.762508852	0.201058388
ENSG00000133247	KMT5C	535.9111118	-1.762626428	7.29E-12
ENSG00000163686	ABHD6	309.4046579	-1.76342819	0.000100087
ENSG00000265972	TXNIP	438.0420094	-1.764362226	4.74E-07
ENSG00000164109	MAD2L1	454.7390721	-1.764671768	1.46E-10
ENSG00000136842	TMOD1	116.109063	-1.764952409	2.98E-06
ENSG00000275322	AC103746.1	41.41068265	-1.765187681	0.004123522
ENSG00000011638	TMEM159	78.69654008	-1.765804818	1.57E-05

ENSG00000122970	IFT81	26.43843597	-1.767929456	0.012112264
ENSG00000288047	AP001994.3	2.180531113	-1.768521955	0.616114547
ENSG00000156531	PHF6	284.8589528	-1.769389757	8.36E-13
ENSG00000101096	NFATC2	105.7385352	-1.770954892	1.56E-06
ENSG00000207650	MIR570	11.2006515	-1.771308466	0.098184624
ENSG00000011028	MRC2	17.14325177	-1.771354243	0.061154896
ENSG00000196503	ARL9	6.979324479	-1.771514225	0.416002419
ENSG00000105695	MAG	29.96456725	-1.771867125	0.068085112
ENSG00000168394	TAP1	587.8119511	-1.772420986	2.56E-06
ENSG00000240065	PSMB9	18.07409315	-1.773745253	0.089204165
ENSG00000169379	ARL13B	33.45131389	-1.773780766	0.005599886
ENSG00000274276	CBSL	214.5832723	-1.774208552	2.39E-10
ENSG00000234925	ATP5PDP4	6.276589972	-1.775591842	0.267720554
ENSG00000226025	AC005515.1	25.40099789	-1.775656634	0.055360081
ENSG00000114738	MAPKAPK3	198.6516674	-1.776145088	6.62E-08
ENSG00000178202	POGLUT3	925.0432304	-1.777829463	7.44E-11
ENSG00000207757	MIR93	5.211206841	-1.777836956	0.331051283
ENSG00000261140	AC093525.4	3.619607528	-1.781646709	0.385606548
ENSG00000164825	DEFB1	9.805557933	-1.781791158	0.11420872
ENSG00000150782	IL18	32.53039105	-1.782612628	0.004313654
ENSG00000113328	CCNG1	2339.617765	-1.782638263	1.90E-14
ENSG00000123473	STIL	566.5002171	-1.782830134	8.97E-12
ENSG00000230937	MIR205HG	333.3934843	-1.782954308	3.18E-11
ENSG00000149289	ZC3H12C	118.4837929	-1.783569561	6.69E-08

ENSG00000109654	TRIM2	45.91777307	-1.786039775	0.001016458
ENSG00000062038	CDH3	397.5220116	-1.786548537	1.75E-09
ENSG00000158571	PFKFB1	4.138843478	-1.786869596	0.388035173
ENSG00000185480	PARPBP	176.1143575	-1.787117597	9.95E-09
ENSG00000109685	NSD2	1265.287722	-1.787481464	2.30E-12
ENSG00000143799	PARP1	3211.105297	-1.787831451	1.25E-19
ENSG00000087085	ACHE	296.4843044	-1.788024209	3.50E-06
ENSG00000123977	DAW1	28.68817865	-1.789618905	0.013679233
ENSG00000165935	SMCO2	5.707344263	-1.790172041	0.267969871
ENSG00000214653	HNRNPA3P3	3.642900438	-1.790888755	0.37553325
ENSG00000187583	PLEKHN1	56.99909557	-1.791526827	7.89E-05
ENSG00000180855	ZNF443	83.03624623	-1.791760074	4.61E-05
ENSG00000100024	UPB1	1.972599327	-1.791866672	0.612254257
ENSG00000151849	CENPJ	406.9009727	-1.793601967	1.37E-07
ENSG00000242498	ARPIN	241.9155545	-1.794297099	4.37E-11
ENSG00000125841	NRSN2	272.7152127	-1.79517783	2.88E-09
ENSG00000147889	CDKN2A	29.23159837	-1.795485545	0.013820284
ENSG00000003400	CASP10	107.2056861	-1.795867953	1.37E-07
ENSG00000187479	C11orf96	44.71091929	-1.796150949	0.013580135
ENSG00000176438	SYNE3	113.2474617	-1.79676372	1.56E-06
ENSG00000244219	TMEM225B	5.820405013	-1.796871947	0.260641905
ENSG00000198286	CARD11	175.6249515	-1.797010857	1.74E-05
ENSG00000281091	AL117327.1	7.21463264	-1.797521789	0.186546454
ENSG00000183458	AC138932.1	16.39369982	-1.797521877	0.04024482

ENSG00000145431	PDGFC	44.67760169	-1.797660812	0.001342456
ENSG00000143772	ITPKB	32.55073892	-1.797755497	0.006555378
ENSG00000184661	CDCA2	441.7614052	-1.7980217	2.02E-10
ENSG00000183337	BCOR	393.4299168	-1.79814365	4.01E-09
ENSG00000273893	AL133520.1	2.869905815	-1.800713409	0.440080543
ENSG00000105991	HOXA1	209.1806208	-1.801809567	1.43E-09
ENSG00000081026	MAGI3	48.97222774	-1.803276262	0.001350188
ENSG00000101057	MYBL2	1297.608323	-1.804759435	2.47E-22
ENSG00000188322	SBK1	39.1761228	-1.805010028	0.013397486
ENSG00000123384	LRP1	10569.53768	-1.805121832	8.11E-12
ENSG00000228613	AC141930.1	5.29799674	-1.807991873	0.36802183
ENSG00000171130	ATP6V0E2	151.9288169	-1.808908016	1.10E-05
ENSG00000196502	SULT1A1	106.405001	-1.808914688	5.09E-05
ENSG00000179241	LDLRAD3	156.9205292	-1.80930281	9.21E-05
ENSG00000140931	CMTM3	868.908997	-1.809522027	3.38E-14
ENSG00000172469	MANEA	54.06750263	-1.809817477	0.000124116
ENSG00000269289	AC011503.1	20.78611061	-1.81050493	0.061693978
ENSG00000244128	LINC01322	29.78457152	-1.811386298	0.014607614
ENSG00000137807	KIF23	650.2981029	-1.813350632	7.94E-18
ENSG00000160233	LRRC3	68.56369677	-1.814540765	8.16E-05
ENSG00000182583	VCX	7.566777011	-1.814866165	0.190452658
ENSG00000162997	PRORSD1P	4.455364174	-1.814902653	0.37933981
ENSG00000122483	CCDC18	53.87381058	-1.815256246	0.000100324
ENSG00000107249	GLIS3	64.94025351	-1.816934126	0.001546881

ENSG00000100505	TRIM9	39.12415595	-1.817258435	0.006608307
ENSG00000205336	ADGRG1	4887.084613	-1.818386658	4.55E-14
ENSG00000165475	CRYL1	192.773794	-1.819210451	4.26E-06
ENSG00000149260	CAPN5	92.66652834	-1.81964601	7.12E-05
ENSG00000173269	MMRN2	14.45557622	-1.820343716	0.091379535
ENSG00000099869	IGF2-AS	13.60421737	-1.820694869	0.055461252
ENSG00000206190	ATP10A	17.19745726	-1.820829296	0.037057367
ENSG00000162909	CAPN2	2178.296712	-1.821912671	5.67E-12
ENSG00000115425	PECR	120.160783	-1.822734975	2.38E-07
ENSG00000135925	WNT10A	21.35651317	-1.824067636	0.142553265
ENSG00000166803	PCLAF	206.7507405	-1.824106768	5.20E-10
ENSG00000123096	SSPN	87.76818206	-1.824686879	0.000915358
ENSG00000137812	KNL1	573.5372741	-1.825267468	1.67E-10
ENSG00000264080	AP005057.1	2.791777724	-1.825475043	0.499599555
ENSG00000111788	AC009533.1	109.5462947	-1.825768695	3.04E-06
ENSG00000214429	CYCSP6	2.904306658	-1.825811571	0.499142571
ENSG00000284879	AC133644.3	4.920160284	-1.826299855	0.263595544
ENSG00000213390	ARHGAP19	452.3230729	-1.826324312	2.16E-11
ENSG00000279406	AL359183.1	16.93201234	-1.826621082	0.102060008
ENSG00000067057	PFKP	7942.939629	-1.826840707	2.03E-19
ENSG00000049239	H6PD	385.9146268	-1.827597374	1.24E-08
ENSG00000100100	PIK3IP1	289.6197602	-1.828070017	1.16E-10
ENSG00000266074	BAHCC1	40.48028379	-1.828454854	0.000879776
ENSG00000136014	USP44	14.0972664	-1.829135213	0.072387896

ENSG00000231609	AC007098.1	5.031331795	-1.829885465	0.400998569
ENSG00000085276	MECOM	43.43012383	-1.830497483	0.000601463
ENSG00000235169	SMIM1	14.29707516	-1.83140917	0.058096083
ENSG00000119661	DNAL1	52.46223062	-1.834055122	0.001297302
ENSG00000250682	LINC00491	12.40278463	-1.83461861	0.067640277
ENSG00000274315	AC009318.3	9.649346355	-1.834854396	0.165092036
ENSG00000140451	PIF1	125.294627	-1.835449341	3.02E-06
ENSG00000103494	RPGRIP1L	24.24759069	-1.836153087	0.011391063
ENSG00000129219	PLD2	1064.167479	-1.836677267	5.51E-19
ENSG00000126351	THRA	70.29884905	-1.837222576	2.64E-05
ENSG00000138670	RASGEF1B	64.06043924	-1.837783994	3.19E-05
ENSG00000128512	DOCK4	1285.19366	-1.838416272	2.03E-15
ENSG00000179899	PHC1P1	142.9626873	-1.838448655	3.26E-05
ENSG00000154978	VOPP1	287.8262078	-1.838596255	3.74E-13
ENSG00000215146	BX322639.1	83.608248	-1.840460274	0.000378983
ENSG00000182013	PNMA8A	13.31755477	-1.841737675	0.091161919
ENSG00000132613	MTSS2	153.0563912	-1.842107525	2.38E-05
ENSG00000284727	AC116562.4	59.91333149	-1.84290658	0.000892337
ENSG00000161888	SPC24	282.4901849	-1.844202353	3.15E-07
ENSG00000134352	IL6ST	1117.456312	-1.845719495	1.13E-15
ENSG00000186185	KIF18B	520.6944758	-1.846090982	1.76E-10
ENSG00000273001	AL731533.2	7.453305448	-1.846725733	0.241875653
ENSG00000084453	SLCO1A2	3.8593069	-1.84859463	0.376541094
ENSG00000231822	AC019097.1	2.029162489	-1.848643859	0.595302606

ENSG00000110888	CAPRIN2	53.83467922	-1.848776098	0.000188296
ENSG00000164308	ERAP2	304.519571	-1.849650735	7.73E-07
ENSG00000287427	AL390236.1	31.52887171	-1.856633708	0.030084415
ENSG00000160062	ZBTB8A	19.81522865	-1.857527578	0.015914666
ENSG00000117298	ECE1	2106.679158	-1.857729609	3.10E-25
ENSG00000108370	RGS9	43.53777743	-1.858383422	0.000384811
ENSG00000166535	A2ML1	120.4202841	-1.858509983	8.27E-05
ENSG00000104918	RETN	4.08463772	-1.859822861	0.410690803
ENSG00000103222	ABCC1	421.3654882	-1.859912694	1.27E-12
ENSG00000055332	EIF2AK2	2344.975066	-1.860079451	1.21E-13
ENSG00000224945	AL353150.1	13.66400777	-1.860092642	0.106098773
ENSG00000123243	ITIH5	2163.430211	-1.862508512	3.03E-15
ENSG00000102218	RP2	1947.715895	-1.862598764	4.38E-11
ENSG00000279489	AL355377.2	4.299633387	-1.863374904	0.316355207
ENSG00000245275	SAP30L-AS1	5.128569	-1.863387238	0.28429531
ENSG00000147614	ATP6V0D2	4.101533156	-1.86354724	0.370991816
ENSG00000134762	DSC3	3080.929885	-1.863796734	9.45E-11
ENSG00000186777	ZNF732	37.60672447	-1.865877524	0.007027783
ENSG00000198826	ARHGAP11A	712.8555652	-1.865893512	6.59E-14
ENSG00000267385	AC011498.4	4.34503579	-1.866293203	0.456540157
ENSG00000109738	GLRB	7.281867178	-1.86643205	0.296017276
ENSG00000068615	REEP1	1334.117934	-1.867147919	6.52E-12
ENSG00000135862	LAMC1	10361.93203	-1.86782558	5.95E-24
ENSG00000065328	MCM10	1130.322728	-1.868324194	4.18E-17

ENSG00000240563	L1TD1	634.6061095	-1.86837953	5.94E-09
ENSG00000162430	SELENON	1660.250933	-1.869127326	1.67E-13
ENSG00000276256	AC011043.1	51.33028885	-1.869538758	0.000150024
ENSG00000152253	SPC25	212.6148679	-1.869568085	2.27E-12
ENSG00000010803	SCMH1	125.8806913	-1.869793705	5.76E-09
ENSG00000229807	XIST	335.6942578	-1.870272247	0.000326429
ENSG00000136193	SCRN1	453.1925454	-1.870444128	5.33E-10
ENSG00000162552	WNT4	48.01932548	-1.870450416	0.005905694
ENSG00000161682	FAM171A2	12.34432074	-1.871017886	0.066853748
ENSG00000198342	ZNF442	40.03484499	-1.871847357	0.006749517
ENSG00000050438	SLC4A8	12.14717039	-1.871925557	0.084719757
ENSG00000234969	AL627389.1	1.834567785	-1.873515351	0.601687841
ENSG00000181450	ZNF678	33.9394946	-1.87364561	0.009616507
ENSG00000140386	SCAPER	993.602192	-1.874076456	1.54E-08
ENSG00000154839	SKA1	190.8815828	-1.874870636	1.19E-08
ENSG00000182568	SATB1	6.196477499	-1.877602334	0.216803566
ENSG00000253196	AC083841.1	29.11876081	-1.878160484	0.002426953
ENSG00000186212	SOWAHB	175.6703233	-1.878237367	4.40E-09
ENSG00000196705	ZNF431	333.3289595	-1.878872548	1.77E-09
ENSG00000134369	NAV1	1281.230397	-1.878873677	5.51E-07
ENSG00000273284	AP001033.2	14.03506017	-1.879181038	0.061932751
ENSG00000163251	FZD5	1197.429333	-1.879370126	3.83E-23
ENSG00000008226	DLEC1	10.44158069	-1.88023632	0.111465203
ENSG00000188157	AGRN	2155.434992	-1.880645152	5.26E-21

ENSG00000287151	C2orf27A	13.44414877	-1.880938836	0.050689251
ENSG00000182759	MAFA	17.96323089	-1.881401963	0.040356462
ENSG00000168398	BDKRB2	665.0329504	-1.881611801	1.02E-12
ENSG00000171291	ZNF439	279.703763	-1.882118828	5.00E-12
ENSG00000225298	LINC00113	1.83203365	-1.884148813	0.649755023
ENSG00000261804	AC007342.4	11.09994213	-1.884572991	0.172950759
ENSG00000134013	LOXL2	571.7551287	-1.884662588	7.80E-12
ENSG00000278112	AC145423.3	9.177687071	-1.884874407	0.248400828
ENSG00000178226	PRSS36	3.710653122	-1.884939507	0.395140323
ENSG00000015133	CCDC88C	193.5448452	-1.885343648	1.02E-05
ENSG00000241095	CYP51A1P1	1.847724156	-1.885379209	0.597998936
ENSG00000181827	RFX7	198.3859734	-1.885522514	3.44E-07
ENSG00000137404	NRM	179.1683856	-1.885864653	7.88E-06
ENSG00000225439	BOLA3-AS1	9.23779546	-1.886302464	0.113967997
ENSG00000116857	TMEM9	605.2127921	-1.887032224	6.83E-19
ENSG00000118898	PPL	508.4350727	-1.887120697	7.54E-06
ENSG00000198088	NUP62CL	29.34137691	-1.887171242	0.009248915
ENSG00000005001	PRSS22	180.5942885	-1.887661747	7.89E-08
ENSG00000145386	CCNA2	970.9243482	-1.887956515	3.27E-20
ENSG00000164066	INTU	70.63745325	-1.88801081	3.78E-05
ENSG00000172478	MAB21L4	7.640810146	-1.888097871	0.225245094
ENSG00000133111	RFXAP	48.77582503	-1.889298916	0.000900832
ENSG00000196109	ZNF676	4.875004709	-1.889520401	0.315192526
ENSG00000102302	FGD1	116.8451989	-1.889864707	4.30E-07

ENSG00000113790	EHHADH	53.60539883	-1.889912266	0.00044313
ENSG00000173041	ZNF680	195.0322821	-1.890114832	6.62E-07
ENSG00000156802	ATAD2	1768.427592	-1.890518647	1.49E-19
ENSG00000251363	LINC02315	27.51896757	-1.891065958	0.007677117
ENSG00000167244	IGF2	340.0976044	-1.89136131	8.13E-06
ENSG00000153404	PLEKHG4B	1340.659443	-1.891475167	5.67E-06
ENSG00000141576	RNF157	41.08432888	-1.891528932	0.000347087
ENSG00000060656	PTPRU	1582.365545	-1.891529694	4.29E-15
ENSG00000157227	MMP14	28880.81156	-1.891683631	7.68E-21
ENSG00000212135	SNORD67	5.001312186	-1.892012423	0.238623056
ENSG00000156787	TBC1D31	125.6614265	-1.89206859	1.23E-08
ENSG00000136048	DRAM1	551.0472961	-1.892750738	3.58E-10
ENSG00000136295	TTYH3	1073.928862	-1.892967078	4.74E-17
ENSG00000163564	PYHIN1	8.32113374	-1.893234848	0.120372034
ENSG00000270681	AC095055.1	8.327711925	-1.894537358	0.11949153
ENSG00000121152	NCAPH	1259.65642	-1.895326814	2.67E-22
ENSG00000197134	ZNF257	114.16061	-1.895786151	1.05E-06
ENSG00000128203	ASPHD2	28.73048677	-1.896668557	0.025510631
ENSG00000268628	AL121761.1	1.860394831	-1.896763849	0.594769497
ENSG00000276547	PCDHGB5	21.33172125	-1.896850718	0.01904953
ENSG00000164294	GPX8	413.9961954	-1.897404757	4.31E-09
ENSG00000145416	MARCH1	11.27188647	-1.897670012	0.079201299
ENSG00000154654	NCAM2	49.38624654	-1.898000779	0.005364033
ENSG00000248777	AC006499.1	2.928546179	-1.901420421	0.406779202

ENSG00000131650	KREMEN2	22.71006562	-1.904035432	0.022451042
ENSG00000187605	TET3	700.4440109	-1.90466563	1.08E-15
ENSG00000105281	SLC1A5	1742.12079	-1.904855754	4.27E-06
ENSG00000155380	SLC16A1	4776.943892	-1.905892493	8.62E-19
ENSG00000278416	PMS2P2	6.752434341	-1.906557649	0.242586422
ENSG00000109674	NEIL3	72.79784152	-1.906804418	2.59E-06
ENSG00000171121	KCNMB3	7.943569276	-1.907020882	0.214706342
ENSG00000178401	DNAJC22	14.69765001	-1.908267559	0.03576121
ENSG00000138449	SLC40A1	32148.64233	-1.908682657	7.34E-17
ENSG00000196664	TLR7	85.21630222	-1.909473116	8.09E-05
ENSG00000196526	AFAP1	292.2465257	-1.910485806	3.63E-12
ENSG00000138758	SEPTIN11	3624.274032	-1.910772338	6.13E-25
ENSG00000274286	ADRA2B	371.7548806	-1.911494386	1.09E-12
ENSG00000197763	TXNRD3	20.42475796	-1.912251118	0.070413957
ENSG00000119943	PYROXD2	50.73361266	-1.912905276	0.001060571
ENSG00000081277	PKP1	4.938541397	-1.913236242	0.282799272
ENSG00000147394	ZNF185	246.2531155	-1.915370883	3.21E-08
ENSG00000152207	CYSLTR2	12.23560424	-1.91546817	0.05400408
ENSG00000254106	LINC01848	3.063191311	-1.917002327	0.441942042
ENSG00000085552	IGSF9	39.42843698	-1.917335307	0.018596266
ENSG00000163362	INAVA	488.1275125	-1.917984234	2.25E-14
ENSG00000181856	SLC2A4	8.243087238	-1.92026138	0.119008064
ENSG00000164309	CMYA5	334.094737	-1.920367888	3.71E-15
ENSG00000163517	HDAC11	122.9225188	-1.920460953	5.44E-09

ENSG00000103489	XYLT1	315.5421559	-1.922563437	1.12E-08
ENSG00000135736	CCDC102A	38.35917421	-1.922712829	0.00495545
ENSG00000267534	S1PR2	1280.112603	-1.924036992	7.21E-14
ENSG00000233056	ERVH48-1	4624.282324	-1.924096481	3.74E-12
ENSG00000008086	CDKL5	368.8788039	-1.924434946	1.34E-07
ENSG00000124831	LRRFIP1	1680.29815	-1.925294259	2.27E-19
ENSG00000012124	CD22	31.98786419	-1.927000631	0.002547921
ENSG00000123297	TSFM	3.182587399	-1.927275769	0.425601736
ENSG00000258897	EGLN3-AS1	8.261859712	-1.927886093	0.167260419
ENSG00000111879	FAM184A	312.5852386	-1.928026099	8.32E-05
ENSG00000121210	TMEM131L	7.835894526	-1.928039953	0.175531584
ENSG00000141505	ASGR1	67.96542521	-1.929678565	0.001781445
ENSG00000196917	HCAR1	90.95384676	-1.930315591	9.21E-05
ENSG00000218418	AL591135.1	8.731571599	-1.931929047	0.17713446
ENSG00000227473	TSSK5P	4.502965067	-1.932083049	0.402556746
ENSG00000051180	RAD51	1108.871074	-1.933353621	1.39E-20
ENSG00000091136	LAMB1	7045.034121	-1.933589717	6.46E-21
ENSG00000100290	BIK	10.23415803	-1.935442392	0.081580316
ENSG00000166407	LMO1	6.614159951	-1.936085824	0.199455045
ENSG00000164342	TLR3	148.9669465	-1.936285011	6.35E-08
ENSG00000176208	ATAD5	386.383197	-1.936394003	2.14E-16
ENSG00000115355	CCDC88A	37.39149276	-1.937157064	0.001158875
ENSG00000166153	DEPDC4	18.77288769	-1.938550864	0.018629727
ENSG00000132334	PTPRE	917.186031	-1.940187872	2.05E-10

ENSG00000286699	AC084198.2	90.58133607	-1.940342103	0.011454261
ENSG00000142494	SLC47A1	18.53622307	-1.940470312	0.062059509
ENSG00000149503	INCENP	1812.385345	-1.941464854	2.52E-16
ENSG00000278023	RDM1	5.710350542	-1.941913924	0.319589885
ENSG00000143632	ACTA1	6.420334417	-1.942409418	0.35564295
ENSG00000268621	IGFL2-AS1	54.85838026	-1.942718892	0.005280076
ENSG00000262521	AJ003147.1	2.136302695	-1.942775895	0.622885419
ENSG00000240184	PCDHGC3	79.61284799	-1.94296838	0.00219439
ENSG00000138336	TET1	1372.45158	-1.943496236	0.013333121
ENSG00000105429	MEGF8	315.8805364	-1.943512314	5.43E-13
ENSG00000221852	KRTAP1-5	25.4769143	-1.94363156	0.034658035
ENSG00000153064	BANK1	12.41016338	-1.94583886	0.101791655
ENSG00000197594	ENPP1	43.74209503	-1.947225145	0.004700117
ENSG00000140511	HAPLN3	32.18703957	-1.94784491	0.003853133
ENSG00000167767	KRT80	7156.577022	-1.949152482	1.76E-09
ENSG00000128274	A4GALT	946.3326302	-1.949996572	7.06E-16
ENSG00000139350	NEDD1	429.3246221	-1.950392426	5.16E-15
ENSG00000186470	BTN3A2	123.8883445	-1.950750661	5.31E-06
ENSG00000279696	AP001273.1	5.71407648	-1.951623498	0.250927315
ENSG00000161800	RACGAP1	3470.060454	-1.952049442	1.13E-20
ENSG00000176974	SHMT1	862.6880374	-1.952325538	8.64E-19
ENSG00000225778	PROSER2-AS1	111.9795468	-1.952662902	2.01E-05
ENSG00000115596	WNT6	367.652128	-1.952669176	4.48E-08
ENSG00000260633	AC010207.1	10.07158924	-1.952977668	0.158160928

ENSG00000207493	SNORA46	3.336079345	-1.953065044	0.378053788
ENSG00000137843	PAK6	766.5725604	-1.953773247	9.17E-16
ENSG00000183161	FANCF	16.80386944	-1.953936874	0.024802263
ENSG00000283418	U6	2.151993201	-1.956031288	0.563417204
ENSG00000164050	PLXNB1	1209.985961	-1.957810536	3.22E-16
ENSG00000174640	SLCO2A1	111.6235046	-1.958547352	0.122752336
ENSG00000119326	CTNNAL1	827.3217549	-1.958906604	5.64E-15
ENSG00000146197	SCUBE3	427.1775556	-1.962868338	1.31E-08
ENSG00000050344	NFE2L3	4361.445386	-1.965527409	1.41E-21
ENSG00000259953	AL138756.1	110.6242812	-1.965740537	1.47E-07
ENSG00000106560	GIMAP2	2.164663876	-1.966819351	0.501161797
ENSG00000205111	CDKL4	2.164663876	-1.966819351	0.501161797
ENSG00000145990	GFOD1	12.80172432	-1.967014948	0.137274041
ENSG00000126882	FAM78A	181.8323942	-1.968443516	0.000553181
ENSG00000110931	CAMKK2	480.5531821	-1.968499469	2.27E-21
ENSG00000178150	ZNF114	1916.999064	-1.96856857	2.81E-07
ENSG00000144893	MED12L	1555.171435	-1.968893284	6.03E-11
ENSG00000234456	MAGI2-AS3	1.926176685	-1.968954558	0.629654196
ENSG00000137267	TUBB2A	305.6074766	-1.96961935	1.29E-10
ENSG00000236404	VLDLR-AS1	13.24833521	-1.969789121	0.061142251
ENSG00000134690	CDCA8	688.8137106	-1.970349946	1.10E-18
ENSG00000274615	AC233968.1	7.054491344	-1.971154352	0.179391152
ENSG00000198468	FLVCR1-DT	4.343994038	-1.972092098	0.337361358
ENSG00000267082	AC011472.1	2.173776196	-1.973150286	0.553080804

ENSG00000137962	ARHGAP29	571.9626904	-1.973564099	4.83E-20
ENSG00000169499	PLEKHA2	78.12826639	-1.974296078	6.02E-05
ENSG00000196247	ZNF107	107.3867631	-1.975445794	4.21E-06
ENSG00000108852	MPP2	39.24885809	-1.976080889	0.000572807
ENSG00000197977	ELOVL2	33.72192452	-1.976919414	0.001971501
ENSG00000092853	CLSPN	740.6631273	-1.977516798	1.01E-10
ENSG00000235044	PPIAP3	4.862892554	-1.977547183	0.354018199
ENSG00000116039	ATP6V1B1	54.0102122	-1.977976616	9.10E-05
ENSG00000133321	PLAAT4	104.4182135	-1.980567002	0.001448971
ENSG00000118507	AKAP7	43.8352121	-1.981300068	0.000406387
ENSG00000102384	CENPI	219.8498821	-1.982641564	8.34E-12
ENSG00000197299	BLM	668.7646487	-1.982676804	2.57E-16
ENSG00000096006	CRISP3	3.85235337	-1.983691682	0.545117849
ENSG00000170312	CDK1	1917.946611	-1.985073205	3.90E-20
ENSG00000113196	HAND1	8.771870298	-1.985257097	0.132714846
ENSG00000112796	ENPP5	19.28463351	-1.985464494	0.015987959
ENSG00000118276	B4GALT6	8.321786595	-1.985858179	0.144462719
ENSG00000139144	PIK3C2G	43.2279188	-1.988459306	0.000144989
ENSG00000197747	S100A10	2763.920534	-1.98908175	5.50E-12
ENSG00000180998	GPR137C	5.892142075	-1.990466783	0.273216551
ENSG00000134569	LRP4	249.6125143	-1.990793036	7.36E-09
ENSG00000082458	DLG3	297.2812367	-1.990970806	2.75E-15
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ENSG00000261167	AC107027.3	4.398129437	-1.992641631	0.438473457

ENSG00000155367	PPM1J	11.97526314	-1.993567079	0.128128279
ENSG00000128881	TTBK2	184.0022982	-1.993627829	2.67E-05
ENSG00000138778	CENPE	566.1225353	-1.993938183	5.10E-19
ENSG00000100206	DMC1	7.376922893	-1.995451535	0.168175339
ENSG00000068885	IFT80	35.80367621	-1.99567897	0.000438963
ENSG00000278635	AC141557.2	6.499960387	-1.995738483	0.154616143
ENSG00000158710	TAGLN2	2673.933267	-1.999667785	1.67E-09
ENSG00000127252	PLAAT1	11.26204769	-2.001585109	0.057367294
ENSG00000187068	C3orf70	2.214755225	-2.004593237	0.540633356
ENSG00000204121	ECEL1P1	5.933257579	-2.004794931	0.269696797
ENSG00000184916	JAG2	216.1613829	-2.004875398	4.45E-09
ENSG00000186767	SPIN4	238.3727404	-2.006244079	1.09E-12
ENSG00000228876	AC010745.2	12.82045654	-2.006486907	0.096181707
ENSG00000183850	ZNF730	36.45318663	-2.006852403	0.000572991
ENSG00000122642	FKBP9	1242.256218	-2.007174873	1.41E-21
ENSG00000077420	APBB1IP	18.44339136	-2.009249377	0.020505038
ENSG00000110446	SLC15A3	100.129342	-2.010908918	0.000500774
ENSG00000105613	MAST1	25.28301052	-2.011442972	0.008312773
ENSG00000171241	SHCBP1	2294.14638	-2.011537937	1.67E-28
ENSG00000198363	ASPH	733.654647	-2.011919072	2.15E-16
ENSG00000074590	NUAK1	44.58628047	-2.013603711	0.00243969
ENSG00000111247	RAD51AP1	430.1205115	-2.013811516	9.70E-13
ENSG00000187498	COL4A1	16426.4219	-2.01459169	1.15E-25
ENSG00000166813	KIF7	69.69611786	-2.01795904	6.33E-05

ENSG00000196628	TCF4	4.005434503	-2.018028691	0.34605599
ENSG00000128245	YWHAH	4364.297937	-2.018321436	5.83E-12
ENSG00000178999	AURKB	931.5328673	-2.018555175	2.00E-17
ENSG00000164236	ANKRD33B	479.4839319	-2.019129914	3.29E-15
ENSG00000140416	TPM1	4950.103736	-2.020994028	8.06E-09
ENSG00000198554	WDHD1	697.0938809	-2.02144931	6.99E-14
ENSG00000143476	DTL	635.3517452	-2.021458464	1.13E-15
ENSG00000184939	ZFP90	94.98205952	-2.023421535	9.16E-08
ENSG00000281376	ABALON	10.32714586	-2.023478051	0.211951562
ENSG00000265415	AC099850.3	112.8587862	-2.023507799	2.40E-07
ENSG00000227495	AC004771.1	3.022611604	-2.025664829	0.399674485
ENSG00000223509	AC135983.2	12.67986172	-2.02623281	0.083728769
ENSG00000232872	CTAGE3P	9.711170886	-2.026601779	0.153605088
ENSG00000102038	SMARCA1	693.3799281	-2.028665194	1.87E-18
ENSG00000166578	IQCD	160.9838232	-2.029253121	2.31E-05
ENSG00000215866	LINC01356	174.6419809	-2.029270169	4.27E-05
ENSG00000106689	LHX2	4.491322592	-2.030410779	0.25231999
ENSG00000168743	NPNT	90.44664486	-2.031223569	2.08E-06
ENSG00000287735	AL355075.6	3.035525127	-2.032157643	0.396142527
ENSG00000267159	AC005379.1	3.03323384	-2.032598849	0.403440847
ENSG00000245571	FAM111A-DT	11.89411769	-2.033043536	0.217822279
ENSG00000172594	SMPDL3A	426.2902582	-2.033168176	3.44E-08
ENSG00000119862	LGALSL	927.4611767	-2.033379456	6.01E-24
ENSG00000143344	RGL1	241.6893397	-2.03388429	2.23E-09

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ENSG00000162981	LRATD1	320.7450491	-2.037677132	0.029170306
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ENSG00000205090	TMEM240	2.034098263	-2.038432362	0.505642881
ENSG00000175063	UBE2C	654.6942858	-2.038737974	2.05E-18
ENSG00000166851	PLK1	1018.09729	-2.039015067	3.10E-25
ENSG00000273760	AC245041.1	138.7352841	-2.040436568	0.001324309
ENSG00000157456	CCNB2	1107.531187	-2.043423303	1.36E-22
ENSG00000105357	MYH14	406.7927181	-2.047238736	1.63E-10
ENSG00000179299	NSUN7	23.6091419	-2.049393334	0.004248674
ENSG00000070526	ST6GALNAC1	29.49663814	-2.050476536	0.015955041
ENSG00000051341	POLQ	478.4424482	-2.051306617	1.38E-16
ENSG00000169992	NLGN2	69.19293429	-2.051617311	8.81E-05
ENSG00000186832	KRT16	6.372785164	-2.053180611	0.179807523
ENSG00000165806	CASP7	559.102346	-2.05332146	1.94E-16
ENSG00000112343	TRIM38	438.9718307	-2.053355557	7.62E-09
ENSG00000230836	LINC01293	2.271318386	-2.053621618	0.525499342
ENSG00000177599	ZNF491	26.41541316	-2.056036937	0.003246531
ENSG00000090889	KIF4A	1056.245093	-2.057978274	5.90E-25
ENSG00000168589	DYNLRB2	2.276872352	-2.058725376	0.464635453
ENSG00000168758	SEMA4C	4107.075314	-2.059064036	1.41E-16
ENSG00000175414	ARL10	8.106279108	-2.059479142	0.24588301
ENSG00000092470	WDR76	707.3273046	-2.059687158	1.05E-16
ENSG00000261150	EPPK1	281.0984464	-2.061582338	1.92E-06

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ENSG00000286456	AC016769.5	26.17023499	-2.062367207	0.001406451
ENSG00000270933	AC010719.1	8.26438662	-2.064610727	0.183841203
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ENSG00000169435	RASSF6	154.1357496	-2.065488634	6.09E-06
ENSG00000115758	ODC1	5687.777033	-2.066983831	3.41E-08
ENSG00000230526	AC073370.1	4.700172769	-2.067738708	0.308516346
ENSG00000148225	WDR31	4.582105885	-2.068344098	0.306719888
ENSG00000142945	KIF2C	1831.260326	-2.069757541	1.03E-20
ENSG00000138180	CEP55	698.3731884	-2.070147343	1.29E-21
ENSG00000152818	UTRN	1771.485233	-2.070869984	1.39E-11
ENSG00000031081	ARHGAP31	148.1908487	-2.070889872	1.03E-08
ENSG00000189067	LITAF	1119.40273	-2.071078369	9.75E-13
ENSG00000187569	DPPA3	2.560722532	-2.071764791	0.518579479
ENSG00000013588	GPRC5A	771.6385089	-2.073069532	0.009922728
ENSG00000279415	AC099494.2	4.825705581	-2.075827104	0.236610889
ENSG00000150977	RILPL2	403.7311062	-2.076482351	0.016841178
ENSG00000272599	AC016394.2	3.569994649	-2.077620502	0.321040145
ENSG00000099864	PALM	195.6901734	-2.078792145	4.15E-08
ENSG00000231298	MANCR	4.616201743	-2.079653186	0.237403387
ENSG00000112984	KIF20A	999.0387359	-2.080032188	1.01E-17
ENSG00000007171	NOS2	4469.583459	-2.081574629	2.44E-08
ENSG00000162104	ADCY9	728.9888317	-2.081664063	2.90E-10
ENSG00000135776	ABCB10	508.3137987	-2.08191389	1.04E-15

ENSG00000169255	B3GALNT1	48.178471	-2.082540284	5.89E-05
ENSG00000185666	SYN3	18.51469489	-2.084715425	0.019294385
ENSG00000101003	GINS1	772.9745009	-2.085943895	2.87E-25
ENSG00000060749	QSER1	468.0725908	-2.086542936	1.62E-10
ENSG00000106069	CHN2	5.463589372	-2.086895193	0.190944295
ENSG00000111206	FOXM1	799.422193	-2.08737493	1.17E-20
ENSG00000203772	SPRN	3.371022691	-2.090496173	0.358465235
ENSG00000215784	FAM72D	28.67056331	-2.090594885	0.008864448
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ENSG00000123485	HJURP	438.3255471	-2.093201529	1.55E-18
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ENSG00000143126	CELSR2	337.0765592	-2.095897572	1.09E-12
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ENSG00000286305	AC004893.3	3.387108537	-2.096529951	0.31417908
ENSG00000108516	AC003958.1	2.583370548	-2.09664608	0.496084307
ENSG00000183145	RIPPLY3	8.863792143	-2.096675425	0.111489471
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ENSG00000080986	NDC80	601.3450009	-2.098573667	2.42E-17
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ENSG00000168078	PBK	334.054997	-2.104847874	3.32E-17
ENSG00000122986	HVCN1	7.261310094	-2.105615261	0.147855231

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ENSG00000173848	NET1	3749.6493	-2.110596711	4.62E-19
ENSG00000233996	AC013439.1	2.105570559	-2.112261806	0.52286141
ENSG00000147100	SLC16A2	4.923004923	-2.113431285	0.22161523
ENSG00000284946	AC068831.7	88.25889536	-2.118236889	1.55E-07
ENSG00000274808	TBC1D3B	4.250124535	-2.118698872	0.29828931
ENSG00000215252	GOLGA8B	45.36283068	-2.120400205	0.000504808
ENSG00000171033	PKIA	85.01067974	-2.121789633	1.04E-06
ENSG00000239265	CLRN1-AS1	2.118241234	-2.121969989	0.519978846
ENSG00000101197	BIRC7	35.77026366	-2.123071746	0.004382734
ENSG00000271601	LIX1L	16.52677465	-2.123699738	0.032644046
ENSG00000185551	NR2F2	1977.749436	-2.124181949	2.49E-23
ENSG00000132470	ITGB4	11560.57516	-2.124699171	2.84E-18
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ENSG00000130202	NECTIN2	2251.795643	-2.125172011	8.52E-17
ENSG00000197506	SLC28A3	8.463314092	-2.12548007	0.171365141
ENSG00000197360	ZNF98	4.509856198	-2.125757234	0.238227819
ENSG00000265107	GJA5	3361.445809	-2.126518672	3.64E-11
ENSG00000163808	KIF15	341.1636651	-2.126772176	1.04E-14
ENSG00000166831	RBPMS2	47.55568476	-2.128382405	0.000223509
ENSG00000100300	TSPO	126.0807362	-2.130145802	1.61E-07
ENSG00000176826	FKBP9P1	4.528080839	-2.130687066	0.22424401
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ENSG00000077782	FGFR1	1686.699656	-2.132701691	2.64E-19

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ENSG00000099960	SLC7A4	342.4543679	-2.136372966	2.76E-07
ENSG00000180999	C1orf105	90.50246818	-2.136559822	0.000347543
ENSG00000115306	SPTBN1	1555.119162	-2.136902178	7.81E-15
ENSG00000171617	ENC1	335.0243504	-2.136950406	3.46E-15
ENSG00000082497	SERTAD4	115.2105347	-2.139626512	5.35E-05
ENSG00000163507	CIP2A	411.363076	-2.141997732	5.89E-18
ENSG00000166707	ZCCHC18	4.292127783	-2.143288017	0.329826872
ENSG00000128829	EIF2AK4	1305.779946	-2.143538282	3.16E-14
ENSG00000118193	KIF14	564.9883303	-2.144201982	1.54E-13
ENSG00000196535	MYO18A	516.8480213	-2.145932463	3.46E-13
ENSG00000169679	BUB1	1116.522404	-2.146418004	1.52E-19
ENSG00000153246	PLA2R1	29.43843878	-2.146533638	0.002755825
ENSG00000160207	HSF2BP	4.575152356	-2.148007554	0.227477819
ENSG00000284640	AL590434.1	2.396197538	-2.148559965	0.508185361
ENSG00000249326	AC025183.2	13.91653765	-2.14967441	0.063779383
ENSG00000239828	AC063944.1	4.806217853	-2.152538272	0.240275492
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ENSG00000119397	CNTRL	123.7233463	-2.154739998	4.30E-07
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ENSG00000260425	AL031709.1	4.939262715	-2.159397754	0.196561343
ENSG00000272416	AC025175.1	2.168332583	-2.162174684	0.518533826
ENSG00000101347	SAMHD1	424.9837002	-2.163606348	1.44E-08
ENSG00000184349	EFNA5	38.22383083	-2.163670292	0.000240802
ENSG00000096433	ITPR3	677.4093422	-2.16464746	2.65E-19
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ENSG00000140795	MYLK3	22.27912904	-2.166848963	0.004448659
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ENSG00000175471	MCTP1	9.740313176	-2.17559489	0.054871792
ENSG00000197757	HOXC6	24.15950186	-2.175806203	0.015499719
ENSG00000183722	LHFPL6	71.11656839	-2.177321982	1.55E-05
ENSG00000088280	ASAP3	680.9966321	-2.177689292	1.44E-14
ENSG00000178460	MCMDC2	5.120623438	-2.182857366	0.216861296
ENSG00000204267	TAP2	105.8929805	-2.183708069	0.000133487
ENSG00000213160	KLHL23	127.020333	-2.189603616	8.13E-08
ENSG00000187800	PEAR1	101.3228002	-2.189661311	1.57E-05
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ENSG00000259370	AC103740.1	2.459445257	-2.191774249	0.418389246

ENSG00000286591	AC006197.2	2.459445257	-2.191774249	0.418389246
ENSG00000103089	FA2H	182.1586667	-2.192369077	2.64E-07
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ENSG00000163823	CCR1	260.4331269	-2.196312005	6.58E-05
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ENSG00000227403	LINC01806	10.2354992	-2.197553023	0.084478383
ENSG00000033867	SLC4A7	463.8407971	-2.198242118	1.16E-07
ENSG00000188732	FAM221A	17.06025214	-2.201726937	0.011299022
ENSG00000262877	AC110285.2	8.273650627	-2.202925666	0.150086399
ENSG00000214433	GOLGA2P8	6.290685464	-2.203140802	0.141955978
ENSG00000135114	OASL	62.92899917	-2.204787686	0.179418533
ENSG00000163520	FBLN2	735.5084686	-2.204958585	1.99E-19
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ENSG00000204381	LAYN	33.11379477	-2.207738788	0.008487493
ENSG00000221995	TIAF1	25.6429569	-2.208005341	0.006893951
ENSG00000140044	JDP2	265.3616412	-2.211670318	1.44E-17
ENSG00000138646	HERC5	765.8362354	-2.211918337	2.87E-25
ENSG00000026950	BTN3A1	96.22735629	-2.21196831	0.000235104
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ENSG00000131242	RAB11FIP4	7137.923165	-2.212041131	3.29E-22
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ENSG00000182916	TCEAL7	39.48019946	-2.218705922	0.001900609
ENSG00000165621	OXGR1	78.41824915	-2.220856221	0.00127584
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ENSG00000164093	PITX2	32.81274034	-2.223097951	0.000512514
ENSG00000231181	AL954705.1	3.399001821	-2.226265302	0.326054929
ENSG00000102837	OLFM4	2.27625416	-2.227678545	0.426072761
ENSG00000100342	APOL1	168.0583341	-2.228062143	1.30E-05
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ENSG00000114770	ABCC5	1184.059593	-2.23503385	1.63E-19
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ENSG00000215218	UBE2QL1	292.8653188	-2.235437853	1.11E-14
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ENSG00000066279	ASPM	449.5554947	-2.238547795	4.70E-16
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ENSG00000124942	AHNAK	12667.48488	-2.24082502	2.72E-13
ENSG00000284633	AL031590.1	2.525606435	-2.241834554	0.407997813

ENSG00000075275	CELSR1	448.6440453	-2.243098918	1.10E-15
ENSG00000156463	SH3RF2	51.89823815	-2.244503553	0.000936825
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ENSG00000088325	TPX2	2596.844755	-2.247953844	3.63E-26
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ENSG00000272398	CD24	1053.242366	-2.255822063	1.54E-30
ENSG00000250132	AC004803.1	8.330566989	-2.2568795	0.087246249
ENSG00000033170	FUT8	769.4264998	-2.257178346	1.12E-24
ENSG00000260926	AC016134.1	2.438768071	-2.257313052	0.386000897
ENSG00000188933	USP32P1	14.93097634	-2.258903355	0.034538897
ENSG00000056998	GYG2	348.1367729	-2.26053353	6.04E-17
ENSG00000102781	KATNAL1	19.48223705	-2.260586798	0.006749517
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ENSG00000078081	LAMP3	257.6622311	-2.261403792	6.99E-08
ENSG00000183856	IQGAP3	478.0952947	-2.263184993	2.38E-23
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ENSG00000162929	KIAA1841	59.35809542	-2.266516053	5.06E-05
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ENSG00000024526	DEPDC1	325.9236559	-2.270596173	2.01E-16

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ENSG00000240241	AC108752.1	23.63511921	-2.276109732	0.002962504
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ENSG00000166349	RAG1	18.05819501	-2.276609726	0.007815815
ENSG00000276478	AL772337.4	7.490843902	-2.277595999	0.136151747
ENSG00000147526	TACC1	2787.258226	-2.280276692	3.44E-24
ENSG00000137393	RNF144B	96.89081042	-2.282598305	1.11E-09
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ENSG00000137841	PLCB2	68.55541284	-2.283054513	4.50E-05
ENSG00000238228	OR7E7P	2.846285221	-2.284276013	0.391316318
ENSG00000073849	ST6GAL1	140.1764121	-2.28641789	2.46E-09
ENSG00000129116	PALLD	1832.254619	-2.286727292	5.74E-23
ENSG00000286013	AC005050.2	32.4382939	-2.287144028	0.031210886
ENSG00000115507	OTX1	30.90390264	-2.287415598	0.000216188
ENSG00000183709	IFNL2	16.83594528	-2.287663688	0.026434834
ENSG00000007062	PROM1	7.811871908	-2.288970279	0.142354543
ENSG00000130635	COL5A1	240.1859029	-2.29302465	4.15E-06
ENSG00000205746	AC126755.1	10.67817395	-2.293329408	0.074990541
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ENSG00000152217	SETBP1	5.211517084	-2.29468009	0.242630498
ENSG00000213085	CFAP45	7.825650451	-2.295976989	0.070154794
ENSG00000072571	HMMR	710.624639	-2.298034351	5.14E-20
ENSG00000286835	AL133477.2	5.227145452	-2.298725032	0.190191698

ENSG00000264230	ANXA8L1	171.2905648	-2.305101271	3.53E-05
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ENSG00000084676	NCOA1	334.7851713	-2.309029966	5.32E-16
ENSG00000196427	NBPF4	2.62568276	-2.309422714	0.449769931
ENSG00000071967	CYBRD1	50.06894976	-2.311337968	0.001401369
ENSG00000197275	RAD54B	19.86845266	-2.314171052	0.01482274
ENSG00000261141	AC092718.5	2.397332109	-2.314490839	0.393873796
ENSG00000287238	AP002954.2	284.5400073	-2.314491826	0.016962627
ENSG00000145681	HAPLN1	69.53675038	-2.314622911	0.000676833
ENSG00000116191	RALGPS2	322.4732732	-2.315574225	5.75E-15
ENSG00000186684	CYP27C1	2.376087637	-2.316751164	0.457715566
ENSG00000279821	AC145098.2	5.032772085	-2.319150446	0.243055615
ENSG00000113319	RASGRF2	50.07010131	-2.319827638	0.000468456
ENSG00000198039	ZNF273	73.65243526	-2.322207325	4.17E-05
ENSG00000224271	AL117329.1	2.646684384	-2.323396277	0.38239974
ENSG00000134757	DSG3	71.9469175	-2.323715525	4.24E-07
ENSG00000266976	AC079466.1	5.306220154	-2.326300873	0.178448957
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ENSG00000118729	CASQ2	7.725578106	-2.326720296	0.088754045
ENSG00000262714	AC007342.5	7.978109411	-2.328660536	0.070545465
ENSG00000213976	AC010615.1	13.17552749	-2.328887223	0.020011839
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ENSG00000182575	NXPH3	25.18068705	-2.336993673	0.004466182
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ENSG00000108932	SLC16A6	18.0093513	-2.339472042	0.042731986
ENSG00000110848	CD69	25.0407576	-2.340129968	0.012377408
ENSG00000248846	LINC02065	2.41048848	-2.34067665	0.455776738
ENSG00000140600	SH3GL3	63.239219	-2.341588593	1.15E-06
ENSG00000175395	ZNF25	5.604935233	-2.342978915	0.170971924
ENSG00000169902	TPST1	280.0819414	-2.346356323	1.37E-13
ENSG00000256043	CTSO	29.3114419	-2.347823461	0.000250004
ENSG00000239542	RN7SL399P	2.688201935	-2.348105405	0.377928785
ENSG00000067066	SP100	1233.413951	-2.348337039	5.13E-18
ENSG00000039068	CDH1	10200.65971	-2.348354853	2.46E-32
ENSG00000100298	APOBEC3H	78.40294282	-2.350784918	5.66E-05
ENSG00000260289	AC093515.1	5.157006341	-2.353757745	0.153464763
ENSG00000244482	LILRA6	2.699067019	-2.354199387	0.428711788
ENSG00000132182	NUP210	2107.873217	-2.354765387	8.29E-28
ENSG00000258903	AL390816.2	2.701601154	-2.356081356	0.361274686
ENSG00000278126	AC139768.1	5.397489143	-2.356129506	0.262826745
ENSG00000188060	RAB42	5.64187021	-2.3562647	0.15358207
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ENSG00000150867	PIP4K2A	2015.020444	-2.357262517	8.16E-27
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ENSG00000130303	BST2	375.5427949	-2.359962012	0.018828085
ENSG00000073711	PPP2R3A	543.2065936	-2.360238004	1.04E-19
ENSG00000131941	RHPN2	334.8554226	-2.361264071	3.49E-19
ENSG00000060982	BCAT1	2739.637554	-2.363186281	3.00E-36
ENSG00000198901	PRC1	23.49792122	-2.364605179	0.003049266
ENSG00000144815	NXPE3	29.61557966	-2.364635565	0.002986188
ENSG00000100234	TIMP3	11743.75811	-2.364662945	2.30E-35
ENSG00000276931	AC009041.4	3.683942337	-2.364816412	0.297233491
ENSG00000121753	ADGRB2	171.2531501	-2.364963579	6.98E-10
ENSG00000254995	STX16-NPEPL1	4.197805576	-2.368106142	0.210295417
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ENSG00000225087	AL583808.1	2.48147508	-2.372445165	0.366590333
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ENSG00000181192	DHTKD1	2039.642928	-2.37447386	1.42E-15
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ENSG00000114993	RTKN	392.9102325	-2.395502651	6.31E-18
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ENSG00000239523	MYLK-AS1	4.428482983	-2.398183535	0.253693672
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ENSG00000256894	AC022509.3	11.08745907	-2.402432671	0.038227533
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ENSG00000232775	BMS1P22	3.060724833	-2.408710854	0.356413664
ENSG00000116157	GPX7	5.574022386	-2.411121527	0.195069323
ENSG00000119514	GALNT12	36.45880917	-2.412115908	0.00022028
ENSG00000226145	KRT16P6	145.9776375	-2.415278053	0.17317314
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ENSG00000257302	FAHD2P1	3.900271189	-2.454291065	0.242840111
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ENSG00000164638	SLC29A4	8.355391351	-2.462343964	0.103595622
ENSG00000182010	RTKN2	181.3731057	-2.462367826	1.85E-09
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ENSG00000224316	GTF2IP5	6.134027258	-2.501661926	0.118633718
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ENSG00000164037	SLC9B1	3.22647664	-2.509249573	0.310241856
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ENSG00000286302	AC084724.1	3.439476434	-2.905212112	0.213849126
ENSG00000141449	GREB1L	1039.597674	-2.905981147	1.07E-25
ENSG00000065618	COL17A1	720.6263235	-2.912081496	0.000542392
ENSG00000279569	AC020763.4	2.011107091	-2.915662695	0.338393005
ENSG00000179841	AKAP5	18.55007093	-2.918273179	0.006848994
ENSG00000241472	PTPRG-AS1	5.809139917	-2.918719234	0.088615868
ENSG00000152402	GUCY1A2	3.489324934	-2.918896878	0.185676147
ENSG00000162711	NLRP3	10.74301765	-2.923339724	0.018823315
ENSG00000188672	RHCE	3.795103895	-2.927901723	0.174325681
ENSG00000182393	IFNL1	6.978649868	-2.92975737	0.06627091
ENSG00000133019	CHRM3	44.07912597	-2.933111369	6.20E-07
ENSG00000116833	NR5A2	11.44917227	-2.938891775	0.007479244
ENSG00000184271	POU6F1	116.3567819	-2.941919148	7.30E-07
ENSG00000124508	BTN2A2	28.96894766	-2.942375623	0.000129145
ENSG00000206075	SERPINB5	7.670889468	-2.944125581	0.045964918
ENSG00000145284	SCD5	133.7461233	-2.950015627	4.37E-07
ENSG00000281207	SLFNL1-AS1	9.619477384	-2.950301651	0.01704414
ENSG00000089127	OAS1	419.631898	-2.963199866	1.61E-10
ENSG00000280374	AC019080.6	4.187497824	-2.966795354	0.161197406
ENSG00000261652	C15orf65	3.542974637	-2.967672311	0.267583716
ENSG00000073464	CLCN4	3.600023495	-2.967760762	0.170462637
ENSG00000246575	AC093162.2	11.51615083	-2.989497153	0.012394069
ENSG00000276116	FUT8-AS1	3.947320007	-2.991005757	0.165092036
ENSG00000221963	APOL6	300.1672334	-2.991233792	4.31E-15

ENSG00000010030	ETV7	34.03355844	-2.99192489	0.000304396
ENSG00000198358	AL354714.1	3.651139063	-2.992561422	0.178502594
ENSG00000283646	LINC02009	20.15953147	-3.000886197	0.000458985
ENSG00000169129	AFAP1L2	162.5189329	-3.006717836	7.22E-16
ENSG00000243753	HLA-L	2.097084415	-3.008057552	0.345855997
ENSG00000161896	IP6K3	11.64668101	-3.010702285	0.02421939
ENSG00000239713	APOBEC3G	16.27281867	-3.012262081	0.001163864
ENSG00000237649	KIFC1	2119.997945	-3.013668433	3.78E-35
ENSG00000119917	IFIT3	340.8429705	-3.014553253	4.29E-12
ENSG00000188868	ZNF563	43.76362491	-3.016231865	5.57E-08
ENSG00000077616	NAALAD2	3.718324461	-3.019332419	0.159953158
ENSG00000287709	AC008780.2	6.30374951	-3.019724247	0.054820609
ENSG00000118094	TREH	3.75501659	-3.035038599	0.161243172
ENSG00000185269	NOTUM	15.21617098	-3.037927586	0.006020966
ENSG00000229474	PATL2	4.109134136	-3.054954962	0.161499678
ENSG00000265817	FSBP	12.69291304	-3.06045959	0.011357717
ENSG00000163840	DTX3L	394.3613409	-3.076753438	1.03E-15
ENSG00000273771	AC024337.2	8.316370497	-3.078253311	0.023340068
ENSG00000172243	CLEC7A	14.78058396	-3.078658838	0.009608957
ENSG00000248569	AC026410.3	4.164673078	-3.079336737	0.13111853
ENSG00000135976	ANKRD36	22.10498227	-3.081159946	0.00042427
ENSG00000267313	AC021504.1	2.241373685	-3.091265779	0.253762814
ENSG00000241570	PAQR9-AS1	2.280365867	-3.094048629	0.265731823
ENSG00000177699	AC011944.1	2.289478188	-3.099995531	0.262695342

ENSG00000135899	SP110	445.1410983	-3.104507641	2.06E-13
ENSG00000170683	OR10A3	2.267686427	-3.10955802	0.327672718
ENSG00000163328	GPR155	19.81341048	-3.130969937	0.000293119
ENSG00000139329	LUM	3.949478798	-3.140625127	0.23163568
ENSG00000111339	ART4	36.21413239	-3.142107033	0.00425417
ENSG00000185885	IFITM1	392.1428957	-3.147659013	7.27E-13
ENSG00000142798	HSPG2	1308.361805	-3.150125975	4.04E-23
ENSG00000126353	CCR7	2969.008402	-3.155579357	4.81E-34
ENSG00000226005	LINC02660	51.42085612	-3.156189988	2.31E-09
ENSG00000286797	AC009315.1	4.367359863	-3.156845136	0.128480676
ENSG00000279970	AC023024.2	4.083068222	-3.166168247	0.128649397
ENSG00000176244	ACBD7	8.496232535	-3.167745834	0.017190003
ENSG00000153707	PTPRD	22.48634796	-3.172408322	0.000762329
ENSG00000279400	AC008957.3	4.725459322	-3.174135427	0.103959373
ENSG00000124143	ARHGAP40	107.8856511	-3.175381323	4.79E-06
ENSG00000105792	CFAP69	4.435675852	-3.180129385	0.113172872
ENSG00000286190	AC055839.2	4.126095689	-3.180380648	0.124141165
ENSG00000254453	NAV2-AS2	6.657314981	-3.180560491	0.054594718
ENSG00000164099	PRSS12	425.4017171	-3.180868958	4.83E-24
ENSG00000268297	CLEC4GP1	14.21386035	-3.181166078	0.008453805
ENSG00000263155	MYZAP	8.932920999	-3.193519053	0.016856284
ENSG00000139190	VAMP1	11.35918366	-3.193639147	0.009891247
ENSG00000008056	SYN1	8.264080682	-3.194063471	0.033130207
ENSG00000117560	FASLG	17.11185721	-3.194791541	0.007930453

ENSG00000124549	BTN2A3P	4.506662452	-3.206933124	0.114356165
ENSG00000229557	LINC00379	4.19605807	-3.208463791	0.119127902
ENSG00000115297	TLX2	2.445093455	-3.211046664	0.279802026
ENSG00000168916	ZNF608	34.47733402	-3.218708807	8.55E-06
ENSG00000234383	CTBP2P8	4.889807586	-3.226101149	0.101692193
ENSG00000257591	ZNF625	2.405401491	-3.227439313	0.209048092
ENSG00000137878	GCOM1	20.81993331	-3.240288347	0.0050121
ENSG00000227300	KRT16P2	4.220481572	-3.246577145	0.21556872
ENSG00000167634	NLRP7	270.029115	-3.257618181	0.000373914
ENSG00000130413	STK33	9.801327808	-3.277074859	0.021314156
ENSG00000168032	ENTPD3	4.404943716	-3.283868685	0.111823155
ENSG00000249395	CASC9	7.138849792	-3.292615308	0.039778877
ENSG00000287626	AL021978.1	4.421256394	-3.293317188	0.112134607
ENSG00000131914	LIN28A	692.1920284	-3.302895689	2.97E-36
ENSG00000254610	AC004923.1	4.46023981	-3.303621124	0.10445829
ENSG00000119737	GPR75	10.3635176	-3.311463328	0.016154154
ENSG00000205126	ACCSL	1.210779487	-3.317679634	0.503236214
ENSG00000224566	FAM96AP2	1.210779487	-3.317679634	0.503236214
ENSG00000230010	AL049646.1	1.210779487	-3.317679634	0.503236214
ENSG00000280037	AC092653.2	1.210779487	-3.317679634	0.503236214
ENSG00000125084	WNT1	10.57191755	-3.320733962	0.036558079
ENSG00000267394	AC004596.1	5.000095333	-3.32147748	0.084184389
ENSG00000207146	Y_RNA	1.223450162	-3.332128794	0.500171237
ENSG00000260641	AC114811.2	1.223450162	-3.332128794	0.500171237

ENSG00000285534	AL163541.1	1.223450162	-3.332128794	0.500171237
ENSG00000085741	WNT11	565.3577777	-3.332547087	1.05E-26
ENSG00000250986	LINC02600	4.570559047	-3.34860117	0.122341993
ENSG00000253304	TMEM200B	61.14562854	-3.355921441	1.58E-11
ENSG00000168016	TRANK1	28.99300883	-3.358679344	1.85E-05
ENSG00000185432	METTL7A	121.1317348	-3.366833296	5.02E-16
ENSG00000266970	AC061992.2	7.166433582	-3.368100429	0.023681003
ENSG00000125409	TEKT3	4.993508382	-3.370550036	0.085219722
ENSG00000074527	NTN4	49.10388296	-3.381996518	3.04E-07
ENSG00000283971	MIR4442	2.7292526	-3.385641226	0.165092036
ENSG00000261499	AC233699.1	4.629497145	-3.389238544	0.168149268
ENSG00000115414	FN1	15250.67862	-3.400921498	4.63E-06
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ENSG00000188306	LRRIQ4	1.289232016	-3.404774689	0.480226484
ENSG00000224747	MTCYBP21	1.289232016	-3.404774689	0.480226484
ENSG00000236641	Z99916.1	1.289232016	-3.404774689	0.480226484
ENSG00000260949	AP006545.1	1.289232016	-3.404774689	0.480226484
ENSG00000273521	AL162274.1	1.289232016	-3.404774689	0.480226484
ENSG00000279206	AC004943.3	1.289232016	-3.404774689	0.480226484
ENSG00000285886	AC211476.6	1.289232016	-3.404774689	0.480226484
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ENSG00000263718	SEPTIN9-DT	2.703741226	-3.40704152	0.166482627
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ENSG00000277892	MIR6746	5.139479513	-3.418418231	0.059966988
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ENSG00000205488	CALML3-AS1	41.37023161	-3.439233717	2.70E-07
ENSG00000227329	AL139396.1	1.331857435	-3.45515304	0.466928982
ENSG00000174501	ANKRD36C	10.53680543	-3.456749767	0.005963884
ENSG00000233974	AC138951.1	1.339702688	-3.463632378	0.397235937
ENSG00000152580	IGSF10	71.6380065	-3.467624691	3.09E-07
ENSG00000248557	AC024558.1	1.34452811	-3.468586044	0.395965304
ENSG00000162738	VANGL2	26.2874445	-3.472296269	1.02E-05
ENSG00000137628	DDX60	427.7680146	-3.473309142	2.46E-32
ENSG00000231636	AGBL5-AS1	1.352373363	-3.476549654	0.393873796
ENSG00000100985	MMP9	82.49224493	-3.477414435	0.043640902
ENSG00000156966	B3GNT7	35.94059466	-3.482661244	1.49E-06
ENSG00000185745	IFIT1	1171.254398	-3.492636391	4.27E-17
ENSG00000175040	CHST2	11.7583799	-3.516432782	0.008133258
ENSG00000170558	CDH2	8.319674534	-3.532721492	0.046004892
ENSG00000205853	RFPL3S	2.98479895	-3.543876247	0.134929014
ENSG00000134198	TSPAN2	10.42555479	-3.55217377	0.010514513
ENSG00000258881	AC007040.2	3.001756523	-3.552177465	0.148169021
ENSG00000275620	AL121827.2	85.70568031	-3.555554385	0.012873583
ENSG00000244119	PDCL3P4	3.017447029	-3.56045656	0.203243867
ENSG00000183801	OLFML1	56.53269419	-3.575581613	1.19E-06
ENSG00000111331	OAS3	1081.861267	-3.579254369	2.48E-07
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ENSG00000115423	DNAH6	5.713640737	-3.583179423	0.055568198
ENSG00000276916	AL442125.2	1.455469519	-3.583551346	0.354918828
ENSG00000284631	SCYGR4	1.455469519	-3.583551346	0.354918828
ENSG00000137285	TUBB2B	82.26909825	-3.584559428	1.28E-07
ENSG00000275401	AL391095.3	1.465606059	-3.593061927	0.352156061
ENSG00000224570	AC097063.1	1.468140194	-3.595130485	0.429018713
ENSG00000127863	TNFRSF19	18.40068204	-3.595545495	0.006034539
ENSG00000239405	TMED10P2	1.46862589	-3.595844334	0.351395409
ENSG00000283403	AC005394.2	5.76729044	-3.597290981	0.045515862
ENSG00000174611	KY	1.481296565	-3.607625928	0.348506373
ENSG00000272442	AL353588.1	1.481296565	-3.607625928	0.348506373
ENSG00000274964	AC026356.1	1.481296565	-3.607625928	0.348506373
ENSG00000176029	C11orf16	3.116256287	-3.610754824	0.127349949
ENSG00000155465	SLC7A7	268.0713516	-3.634110018	2.34E-05
ENSG00000225764	P3H2-AS1	3.126558065	-3.634516171	0.125529712
ENSG00000287191	AC055807.1	1.531387913	-3.653161939	0.336158467
ENSG00000277619	AC008406.3	6.339480291	-3.655202633	0.038204753
ENSG00000164362	TERT	1.533922048	-3.655436639	0.335441441
ENSG00000273252	OR7E39P	1.533922048	-3.655436639	0.335441441
ENSG00000137872	SEMA6D	24.15977376	-3.66527521	0.000880152
ENSG00000138311	ZNF365	11.69941882	-3.668683191	0.003405852
ENSG00000198934	MAGEE1	12.10241347	-3.670623322	0.004438749
ENSG00000232611	AL683813.1	1.574013333	-3.696106771	0.402067847
ENSG00000250374	TRIM75P	1.574013333	-3.696106771	0.402067847

ENSG00000230084	AC006059.1	1.576547468	-3.698810065	0.32348452
ENSG00000008277	ADAM22	15.65050131	-3.704520818	0.00105255
ENSG00000213997	PGAM1P7	3.347798714	-3.707562454	0.115702429
ENSG00000086570	FAT2	265.0233016	-3.711641527	8.82E-32
ENSG00000226889	AL359541.1	1.610219766	-3.727769026	0.309569745
ENSG00000117016	RIMS3	20.34346784	-3.759649961	0.002279681
ENSG00000165434	PGM2L1	19.18440914	-3.790578022	0.000117583
ENSG00000138496	PARP9	417.4913153	-3.802143104	7.67E-22
ENSG00000260734	TLE7	1.707761956	-3.813758624	0.284034795
ENSG00000267535	LINC00868	1.710296091	-3.81574587	0.292489917
ENSG00000144935	TRPC1	13.00336995	-3.827204136	0.001083083
ENSG00000251188	AC079140.3	7.108573403	-3.828512785	0.034941508
ENSG00000235192	AC009495.3	1.726472293	-3.828635885	0.280511882
ENSG00000132744	ACY3	1.739142968	-3.838672076	0.27820793
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ENSG00000287957	AC007695.1	1.773543811	-3.865488252	0.270989005
ENSG00000129167	TPH1	1.77861208	-3.869412947	0.270028196
ENSG00000167580	AQP2	1.783923198	-3.872992762	0.218170063
ENSG00000155011	DKK2	1.804924822	-3.89039428	0.35128325
ENSG00000254838	GVINP1	1.804924822	-3.89039428	0.35128325
ENSG00000253908	AC104115.2	1.826548618	-3.911209506	0.209256934
ENSG00000188037	CLCN1	1.83137404	-3.914474469	0.262058692

ENSG00000279681	AC092135.2	1.844530411	-3.924539542	0.186706137
ENSG00000183019	MCEMP1	1.854909799	-3.931975399	0.257776665
ENSG00000070915	SLC12A3	13.36409636	-3.938702186	0.005292925
ENSG00000268879	IGFL1P1	10.92898105	-3.956199682	0.010767454
ENSG00000283982	AL445623.2	1.900957097	-3.965577813	0.243837049
ENSG00000275756	AL354751.3	1.949917854	-4.00511108	0.231784555
ENSG00000176302	FOXR1	1.952937685	-4.007132501	0.245518408
ENSG00000137707	BTG4	1.961564309	-4.013470207	0.18676493
ENSG00000138669	PRKG2	1.965608359	-4.016361974	0.163190044
ENSG00000155749	FLACC1	1.970676629	-4.019583114	0.242570151
ENSG00000275549	STPG3-AS1	1.981298865	-4.02702637	0.160997682
ENSG00000186998	EMID1	7.685933654	-4.039576892	0.031338756
ENSG00000184564	SLITRK6	2.015699708	-4.050552694	0.221521544
ENSG00000236417	CTSLP1	2.033924349	-4.062377258	0.165092036
ENSG00000166482	MFAP4	2.036458484	-4.064662827	0.222414042
ENSG00000260578	AC110597.1	2.036458484	-4.064662827	0.222414042
ENSG00000146674	IGFBP3	766.0789372	-4.086044305	0.00021679
ENSG00000234575	CTSLP8	2.083909325	-4.100746443	0.168892495
ENSG00000271550	BNIP3P11	2.090487511	-4.105065848	0.156037043
ENSG00000285294	LINC00842	8.030061822	-4.111678961	0.008948349
ENSG00000170484	KRT74	39.81458539	-4.115711041	7.07E-08
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ENSG00000261308	FIGNL2	36.31726734	-4.126523164	8.29E-08
ENSG00000240694	PNMA2	7.8417121	-4.147699868	0.011273939

ENSG00000226416	MRPL23-AS1	2.184471346	-4.169196692	0.19811694
ENSG00000279094	LINC01670	2.210784088	-4.185621318	0.194631193
ENSG00000203797	DDO	2.213318223	-4.187449744	0.129402067
ENSG00000172671	ZFAND4	2.223454763	-4.193645123	0.117672139
ENSG00000253361	AC069120.1	2.223454763	-4.193645123	0.117672139
ENSG00000104332	SFRP1	2170.084417	-4.19818825	5.79E-34
ENSG00000260725	AC005307.1	2.239145268	-4.203070044	0.122485232
ENSG00000100626	GALNT16	2.254835774	-4.212733183	0.18246682
ENSG00000229816	DDX50P1	2.26038974	-4.21574155	0.120388222
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ENSG00000152689	RASGRP3	2.278614381	-4.226610537	0.123273048
ENSG00000225963	AC009950.1	2.278614381	-4.226610537	0.123273048
ENSG00000133106	EPSTI1	158.2938152	-4.231307351	0.006768995
ENSG00000278599	TBC1D3E	2.291770752	-4.234531646	0.132460409
ENSG00000134874	DZIP1	18.44285442	-4.284667191	6.96E-05
ENSG00000250546	AC079160.1	2.390337161	-4.296637317	0.164467608
ENSG00000218713	AL512378.1	2.439783614	-4.328619295	0.116051756
ENSG00000226080	AC062028.2	2.442074901	-4.329967378	0.10942481
ENSG00000002746	HECW1	2.442317749	-4.330127413	0.105327344
ENSG00000237200	ZBTB40-IT1	5.047336093	-4.337681291	0.041234001
ENSG00000286913	AC092943.2	2.46054239	-4.340235972	0.088754045
ENSG00000277196	AC007325.2	2.499525807	-4.361545575	0.151673182
ENSG00000184719	RNLS	2.505079773	-4.364238944	0.085634323
ENSG00000226609	AL390067.1	2.510148042	-4.367029771	0.09331789

ENSG00000163568	AIM2	2.520770278	-4.37266637	0.089099409
ENSG00000100583	SAMD15	2.523304413	-4.374091063	0.094388257
ENSG00000226562	CYP4F26P	2.526081396	-4.375589018	0.096132154
ENSG00000063438	AHRR	2.54303897	-4.384739082	0.101863121
ENSG00000280809	LINC00836	2.54708302	-4.387526764	0.15408596
ENSG00000106034	CPED1	5.210553766	-4.38765849	0.021987062
ENSG00000177483	RBM44	5.180916752	-4.389069435	0.022180676
ENSG00000236304	AP001189.1	2.570618779	-4.400455488	0.172414168
ENSG00000269397	AC011503.2	15.14971567	-4.417205403	0.000287131
ENSG00000151468	CCDC3	2.634002974	-4.436509862	0.075251408
ENSG00000265933	LINC00668	2.639314092	-4.439298404	0.083540823
ENSG00000261656	BEAN1-AS1	2.644382362	-4.441840652	0.078504092
ENSG00000224057	EGFR-AS1	2.64969348	-4.444546074	0.078923738
ENSG00000106631	MYL7	2.665383986	-4.452666716	0.087937935
ENSG00000279878	AP003108.5	2.673851411	-4.460702743	0.132060243
ENSG00000162460	TMEM82	2.715368962	-4.482015853	0.083540233
ENSG00000214922	HLA-F-AS1	2.718145945	-4.483439288	0.068188031
ENSG00000264290	AC104564.3	2.728525333	-4.488546738	0.077831212
ENSG00000227560	RPS15AP30	2.730278097	-4.489385469	0.069694357
ENSG00000233264	AC006042.3	2.791128157	-4.522669252	0.12620639
ENSG00000236953	ZDHHC20-IT1	2.831378641	-4.542693178	0.060411967
ENSG00000111046	MYF6	2.836310435	-4.542750439	0.197491211
ENSG00000164512	ANKRD55	2.844292164	-4.548761607	0.072086596
ENSG00000133475	GGT2	2.844535012	-4.548911154	0.056016898

ENSG00000276248	AL442125.1	11.19955581	-4.551438897	0.002899693
ENSG00000121858	TNFSF10	20.87469558	-4.553617324	0.000363529
ENSG00000178795	GDPD4	6.049788454	-4.628974407	0.012670741
ENSG00000254153	AC103957.2	3.023306714	-4.635009734	0.052510984
ENSG00000105501	SIGLEC5	3.086311585	-4.664351431	0.12627146
ENSG00000234352	AC009264.1	3.111736583	-4.677753519	0.043173393
ENSG00000246214	AC024588.1	3.128694157	-4.685034845	0.042529949
ENSG00000277806	AC006213.4	3.173853711	-4.708108348	0.050689251
ENSG00000278897	AC020951.1	3.200166453	-4.719294149	0.044233131
ENSG00000184923	NUTM2A	3.207768858	-4.722542931	0.037640494
ENSG00000276007	AC079414.3	3.225993499	-4.730119539	0.037743063
ENSG00000219201	AC138392.1	3.239149869	-4.735559436	0.036868329
ENSG00000075461	CACNG4	3.278618982	-4.751911654	0.041926473
ENSG00000109205	ODAM	11.9095608	-4.765167647	0.001568909
ENSG00000187714	SLC18A3	3.352003241	-4.783866926	0.152157495
ENSG00000287713	AC006517.2	3.360470666	-4.788715236	0.035446657
ENSG00000207563	MIR23B	3.400963998	-4.804848422	0.035781019
ENSG00000253649	PRSS51	3.425766824	-4.814902265	0.044284668
ENSG00000275954	TBC1D3F	3.439302519	-4.823504305	0.032820297
ENSG00000257316	AC087311.1	3.465615261	-4.833744999	0.027688488
ENSG00000229544	NKX1-2	3.483839902	-4.840763517	0.028688819
ENSG00000104888	SLC17A7	3.499530408	-4.846818447	0.031175902
ENSG00000165028	NIPSNAP3B	3.499530408	-4.846818447	0.031175902
ENSG00000278962	AC092645.1	3.500016104	-4.847267698	0.071143263

ENSG00000172915	NBEA	3.502550239	-4.848038832	0.037406333
ENSG00000225431	LINC01671	3.513953846	-4.852396696	0.033467086
ENSG00000185904	LINC00839	3.525843149	-4.856924805	0.032066185
ENSG00000238018	AC093110.1	3.577338041	-4.879862522	0.026824722
ENSG00000277357	NPAP1P7	3.634007575	-4.900965604	0.027929712
ENSG00000250786	SNHG18	3.657543334	-4.909719661	0.029527406
ENSG00000217442	SYCE3	3.715859259	-4.934226992	0.025681052
ENSG00000005102	MEOX1	3.749774406	-4.946418961	0.022251657
ENSG00000111335	OAS2	290.2639291	-4.962370043	1.86E-05
ENSG00000243896	OR2A7	3.98408505	-5.03426362	0.017467803
ENSG00000280027	AC007342.9	4.370854655	-5.167637947	0.012267629
ENSG00000236212	AC009262.1	4.376947144	-5.169608695	0.015659256
ENSG00000132530	XAF1	15.74487434	-5.203928902	0.002844352
ENSG00000124212	PTGIS	17.27986426	-5.206231471	0.000327132
ENSG00000267696	ERVK-28	4.491446908	-5.20705372	0.012820684
ENSG00000278576	AL162171.3	4.523313615	-5.216547061	0.011516023
ENSG00000286004	AC124944.3	4.523935788	-5.219283504	0.013169445
ENSG00000185250	PPIL6	4.695157912	-5.271559908	0.313447598
ENSG00000255201	AC087623.1	4.748026243	-5.287045617	0.009432682
ENSG00000213412	HNRNPA1P33	4.779650103	-5.295993054	0.009208486
ENSG00000274976	AC087588.2	10.89708965	-5.490522591	0.000630215
ENSG00000225886	AL445490.1	29.87790128	-5.523908099	2.08E-06
ENSG00000262823	AC127521.1	6.310150273	-5.698346299	0.001624462
ENSG00000198153	ZNF849P	6.561661339	-5.754661102	0.001328005

ENSG00000196196	HRCT1	6.837087487	-5.815057555	0.002280685
ENSG00000183230	CTNNA3	7.231725068	-5.893146878	0.002299038
ENSG00000153291	SLC25A27	7.352939493	-5.918310241	0.001040655
ENSG00000197110	IFNL3	26.69287619	-5.942071904	9.25E-06
ENSG00000196912	ANKRD36B	8.901907151	-6.19485073	0.000223575
ENSG00000166924	NYAP1	11.91556302	-6.615113724	3.19E-05
ENSG00000285933	AP003498.2	12.23617145	-6.652868774	2.81E-05

Supplementary Table 2. The list of stage-specific genes in trophoblast.

genes specific for pre CT, No.of Genes=215		genes specific for post CT, No.of Genes=98		genes specific for early EVT, No.of Genes=154		genes specific for EVT, No.of Genes=431		genes specific for early ST, No.of Genes=242		genes specific for ST, No.of Genes=288	
Gene ENSEMBL	Gene_name	Gene ENSEMBL	Gene_name	Gene ENSEMBL	Gene_name	Gene ENSEMBL	Gene_name	Gene ENSEMBL	Gene_name	Gene ENSEMBL	Gene_name
ENSG00000101	CDX2	ENSG00000101	H3F3B	ENSG00000202	ERVMER34-1	ENSG00000001	FLT4	ENSG00000202	AC005176.1	ENSG00000101	PSG6
ENSG00000101	ALPP	ENSG00000101	NR2F2	ENSG00000101	ATP7B	ENSG00000101	GLIPR1	ENSG00000101	LURAP1L	ENSG00000060	RAP1GAP
ENSG00000101	TUBB4A	ENSG00000202	LINC00668	ENSG00000101	LINC00643	ENSG00000101	NOTUM	ENSG00000202	ERVV-1	ENSG00000202	PSG1
ENSG00000003	SLC12A3	ENSG00000101	LRPAP1	ENSG00000101	CCND1	ENSG00000001	TYMP	ENSG00000202	AC010328.1	ENSG00000202	PSG5
ENSG00000101	FABP3	ENSG00000101	PSMD12	ENSG00000202	PROSER2-AS1	ENSG00000202	AC211433.1	ENSG00000202	LGALS16	ENSG00000202	PSG3
ENSG00000006	GPRC5A	ENSG00000101	PSMC1	ENSG00000202	PEG10	ENSG00000101	FN1	ENSG00000101	RIPOR2	ENSG00000060	TMEM40
ENSG00000101	S100A16	ENSG00000101	CBR1	ENSG00000101	KCNK5	ENSG00000101	HAPLN3	ENSG00000101	FHDC1	ENSG00000101	FAM83F
ENSG00000202	AK4P1	ENSG00000101	FABP5	ENSG00000202	PRRT1B	ENSG00000101	B3GNT7	ENSG00000202	ERVV-2	ENSG00000101	DPP4
ENSG00000101	GLIPR2	ENSG00000101	PSMD4	ENSG00000006	PPP2R3A	ENSG00000101	SLC25A15	ENSG00000101	ABTB2	ENSG00000202	LINC01273
ENSG00000101	RGCC	ENSG00000101	RP2	ENSG00000101	SKP2	ENSG00000101	DOCK5	ENSG00000101	TRPV2	ENSG00000101	S100P
ENSG00000101	ALPG	ENSG00000101	TMEM245	ENSG00000101	MYO7A	ENSG00000101	SYT8	ENSG00000101	SLC13A4	ENSG00000101	INHA
ENSG00000101	HAND1	ENSG00000101	ODAM	ENSG00000101	FCHSD2	ENSG00000003	FSTL3	ENSG00000101	ESRRG	ENSG00000202	PSG11
ENSG00000101	AK4	ENSG00000101	CCKBR	ENSG00000101	LDLRAD3	ENSG00000202	AP001189.1	ENSG00000101	LYPD3	ENSG00000101	NIBAN1
ENSG00000101	S100A10	ENSG00000101	DENND4C	ENSG00000101	CRYBA2	ENSG00000101	WIPF1	ENSG00000101	SGK1	ENSG00000101	TCL6
ENSG00000101	DTNB	ENSG00000101	EBNA1BP2	ENSG00000101	UCP2	ENSG00000101	TNNI2	ENSG00000101	KIF21A	ENSG00000202	PSG2
ENSG00000101	IL34	ENSG00000101	PARD6B	ENSG00000101	GRAMD2A	ENSG00000202	PSMB9	ENSG00000006	RELT	ENSG00000202	PSG10P
ENSG00000101	STXBP6	ENSG00000006	ATP2B1	ENSG00000101	OLA1	ENSG00000101	PTK2B	ENSG00000101	HOPX	ENSG00000101	STX11
ENSG00000101	C6orf132	ENSG00000101	MRPL37	ENSG00000101	JAM3	ENSG00000101	ANXA4	ENSG00000101	SIAH1	ENSG00000101	BACE2
ENSG00000202	EMP2	ENSG00000101	ABT1	ENSG00000000	PEBP1	ENSG00000101	LGALS3BP	ENSG00000202	PRR9	ENSG00000101	CLIP4
ENSG00000101	RHPN2	ENSG00000101	EIF4A3	ENSG00000101	PDGFB	ENSG00000202	AC211486.5	ENSG00000101	SLC40A1	ENSG00000202	PLAC4
ENSG00000202	POU5F1	ENSG00000101	PPT1	ENSG00000006	DLX6	ENSG00000101	EPSTI1	ENSG00000202	AC084357.2	ENSG00000101	LHB
ENSG00000101	MYBL2	ENSG00000101	TTC1	ENSG00000006	LNX1	ENSG00000101	ASCL2	ENSG00000101	KAZN	ENSG00000101	MISP3
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ENSG00000101	ATP6V0A4	ENSG00000101	TPI1	ENSG00000101	HIF1A	ENSG00000003	SP100	ENSG00000101	SERP1	ENSG00000202	AC132872.4
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ENSG00000006	PROM1	ENSG00000101	SH2D4A	ENSG00000006	MYLK	ENSG00000101	PADI1	ENSG00000101	PHLDB3	ENSG00000202	ITGB3
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