Progerin impairs vascular smooth muscle cell growth via the DNA damage response pathway

(プロジェリンは DNA 損傷応答経路を介して 血管平滑筋細胞の増殖を障害する)

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Abstract

Mutations of the lamin A gene cause various premature aging syndromes, including

Hutchinson-Gilford progeria syndrome (HGPS) and atypical Werner syndrome. In

HGPS (but not atypical Werner syndrome), the cardiovascular system is severely

affected, and extensive loss of vascular smooth muscle cells leads to myocardial

infarction with premature death. The molecular mechanisms by which lamin A

mutations can cause such different premature aging phenotypes as HPGS and atypical

Werner syndrome are largely unknown. We performed an interactome analysis using

mutant forms of lamin A involved in progeroid syndromes. We found that the mutant

lamin A responsible for HGPS, known as progerin, could not interact with proteins

related to the DNA damage response, including DNA-dependent protein kinase

(DNA-PK), unlike wild-type lamin A or lamin A mutants causing atypical Werner

syndrome. We also found that forced expression of progerin in vascular smooth muscle

cells led to activation of DNA-PK and cellular growth arrest, while knockdown of

DNA-PK attenuated progerin-induced growth arrest. Deletion of p53 also improved the

inhibition of cell growth due to forced expression of progerin. These findings suggested

that progerin affects the DNA damage response pathway and that dysregulation of this

pathway may be responsible for the development of cardiovascular pathology in

patients with HGPS.

Keywords: cellular senescence, HGPS, DNA-PK, vascular smooth muscle cells, p53

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Introduction

Hutchinson-Gilford progeria syndrome (HGPS) is among the most severe of the premature aging disorders and patients with HGPS die of cardiovascular complications at an average age of only 13 years^{1, 2}. While lifestyle-related atherosclerosis involves vascular endothelial cell dysfunction, endothelial cell function is normal in HGPS patients¹. Instead, they show loss of vascular smooth muscle cells (VSMCs) from the arterial media, which causes maladaptive vascular remodeling and leads to myocardial infarction¹.

Lamin A is a component of the nuclear lamina, which lies on the inner surface of the nucleus, and it is involved in regulating multiple cellular functions such as maintenance of nuclear integrity, organization of chromatin, DNA replication, and transcription^{3, 4}. Lamin A is encoded by the *LMNA* gene and mutations of this gene cause several diseases that affect specific types of mesenchymal cells such as muscle, white adipose tissue, and bone^{3, 4}. Other *LMNA* mutations cause premature aging syndromes. The majority of HGPS patients have the G608G mutation that affects splicing in exon 11 to generate a truncated form of lamin A protein called progerin^{3, 4}. In contrast, a subset of patients with Werner syndrome, a much less severe form of progeria with a median lifespan of 54 years⁵, have missense mutations such as R133L and L140R^{3, 4}.

Several studies using mouse models or cells derived from progeria patients have suggested that DNA damage response pathways may be involved in the pathophysiology of HGPS. In Zmpste24^{-/-} mice that have similar phenotypic features to HGPS, the downstream targets of p53 were up-regulated and p53 deletion partially reversed some of the markers of premature aging including a shortened lifespan⁶. Phosphorylated histone H2AX is a marker of the response to DNA double-strand breaks, and it was found to be increased in these mice as well as in fibroblasts from HGPS patients^{6, 7}. Ataxia telangiectasia mutated (ATM) is a kinase that is rapidly and

specifically activated in response to DNA double-strand breaks, and it was found to be activated in Zmpste24^{-/-} mice as well as in Lmna G609G/G609G mice that produce progerin and display clinical features of HGPS⁸. Changes in the localization and expression of DNA-dependent protein kinase (DNA-PK), another DNA damage response kinase, have been reported in HGPS fibroblasts, although the role of DNA-PK in HGPS is not clear⁹. Studies using induced pluripotent stem cells obtained from HGPS patients have detected cell type-specific toxicity of progerin for VSMCs^{9, 10}, reflecting the unique pattern of arteriosclerosis in HGPS.

While there has been an increase in our knowledge of these syndromes, important questions remain unanswered. For example, "why do mutations of the same gene lead to such different premature aging phenotypes as HGPS and atypical Werner syndrome?", "what causes cell-specific toxicity of progerin for cells with a mesenchymal origin?", and "how are DNA damage response pathways related to the etiology of HGPS?". In the present study, we attempted to address these issues by performing comparative interactome analysis of mutant forms of lamin A involved in HGPS and atypical Werner syndrome.

Results

Interactome analysis of wild-type and mutant lamin A

In order to understand how mutation of lamin A causes more severe premature aging than other mutations in HGPS, we transfected HEK293 cells with four types of flag-tagged lamin A as the bait and performed immunoprecipitation of cell lysates with an anti-flag antibody, after which binding proteins were subjected to LC-MS/MS analysis. The baits were flag-tagged wild-type lamin A, flag-tagged lamin A R133L (a mutant causing atypical Werner Syndrome), flag-tagged lamin A L140R (another mutant causing atypical Werner Syndrome), and flag-tagged progerin (Figure 1). We identified 55 binding partners of wild-type lamin A, which included some proteins previously

reported to interact with lamin A, validating the quality of the present experiments (Table 2). The three lamin A mutants retained the ability to interact with some of the proteins that bound to wild-type lamin A, but most were no longer recognized. L140R was unable to bind with 30 of the 55 proteins, while R133L lost the ability to bind to 32 proteins and progerin could not bind to 43 proteins (Figure 2 and Table 3). We also found that the lamin A mutants could interact with a substantial number of proteins to which wild-type lamin A could not bind (Figure 2 and Table 3). According to interactome analysis, progerin showed the largest loss and smallest gain in the number of protein-protein interactions compared with wild-type lamin A. These results led us to hypothesize that the normal lamin A protein network is most severely affected in HGPS among the laminopathies associated with premature aging and that alterations of protein interactions may contribute to the characteristic phenotypic features of this disease.

Next, we performed gene ontology (GO) analyses in order to detect functional differences between progerin-associated proteins. Using the functional annotation tool DAVID, we searched for GO terms concentrated in the sets of proteins interacting with wild-type lamin A, R133L, L140R, or progerin. Because several GO terms with similar functions showed almost complete overlap, we manually categorized them into common biological terms (Table 1). We found seven terms that were significantly enriched in wild-type lamin A-bound proteins (Table 1). Interestingly, proteins that interacted with any lamin A mutant causing atypical Werner syndrome usually shared almost all of these terms, although the interacting molecules did not correspond exactly to wild-type lamin A (Table 1 and Table 3). It is noteworthy that progerin lacked two terms when compared with the other three proteins, which were "DNA damage response" and "muscle" (Table 1). These data suggest that progerin has lost a set of interaction partners with specific functions rather than losing the ability to bind to proteins randomly.

Lack of progerin/DNA-PK interaction is associated with activation of DNA-PK

We assigned the three GO terms "DNA-dependent protein kinase (DNA-PK)–DNA ligase 4 complex", "non-homologous end joining complex", and "replication fork" to the category of DNA damage response (Table 1). DNA-PKcs is the catalytic subunit of DNA-PK, a nuclear DNA-dependent serine/threonine protein kinase. DNA-PKcs is required for the non-homologous end joining (NHEJ) DNA repair pathway, which repairs double-strand breaks in DNA. We focused on the term "DNA-dependent protein kinase–DNA ligase 4 complex" because DNA-PKcs and its binding partners Ku80 and Ku70 were all detected in the interactomes of wild-type lamin A, R133L, and L140R, while none of them were detected among the progerin-associated proteins (Table 3).

Many proteins have been identified as substrates for the kinase activity of DNA-PK. Autophosphorylation of DNA-PKcs appears to play a key role in NHEJ and is thought to induce a conformational change that allows end-processing enzymes to access the ends of the double-strand break. In addition, DNA-PKcs has been reported to interact with a number of regulators of DNA metabolism. To investigate the interaction between progerin and DNA-PKcs, we transfected cells with flag-tagged lamin A or flag-tagged progerin and then performed immunoprecipitation with an anti-flag antibody and western blot analysis for DNA-PKcs expression. DNA-PKcs was easily detected when cells were transfected with flag-tagged lamin A, while it was markedly reduced in cells transfected with flag-tagged progerin (Figure 3A), validating the results obtained by mass spectrometry. To examine how lamin A influenced the activation of DNA-PKcs, we further assessed its phosphorylation. While introduction of wild-type lamin A did not affect the phosphorylation of DNA-PKcs, introduction of progerin led to a marked increase of its phosphorylation (Figure 3B). These results suggested that accumulation of progerin could increase the activity of DNA-PK by changing its binding properties.

Progerin impairs VSMC growth in a DNA-PK and p53-dependent manner

Because VSMCs rather than vascular endothelial cells are involved in arteriosclerosis associated with HGPS, we tested the influence of progerin on the growth of VSMCs and human umbilical vein endothelial cells (HUVECs) by using a retroviral vector that encoded wild-type lamin A or progerin. Introduction of progerin into VSMCs strongly reduced cell growth and shortened the replicative lifespan (Figure 4A and B). In contrast, introduction of progerin had no effect on the growth and lifespan of HUVECs (Figure 4C and D), showing a cell type-specific effect of progerin. These results are consistent with the known pathology of HGPS as well as with a previous report about iPS cells¹⁰.

We next examined whether knockdown of DNA-PKcs with small interfering RNA (siRNA) could improve the growth of VSMCs after introduction of progerin. We found that siRNA targeting DNA-PKcs reduced the DNA-PKcs protein level in cultured VSMCs (Figure 5A). In addition, knockdown of DNA-PKcs reversed the suppression of cell growth by progerin (Figure 5B and C), suggesting that activation of DNA-PK could account for the antiproliferative effect of progerin on VSMCs.

VSMC numbers did not increase when culture was continued for 2 months after introduction of progerin. When we harvested these cells and performed western blot analysis of cell cycle checkpoint proteins related to the DNA damage response and cellular senescence, we found that expression of p53, p21, and p16 was increased by introduction of progerin compared with wild-type lamin A (Figure 6A). It is well known that DNA-PK cooperates with ATM, leading to phosphorylation and activation of p53¹². Accordingly, we speculated that progerin-induced activation of DNA-PK might up-regulate p53 activity, thereby inducing cell growth arrest. To test this hypothesis, we introduced siRNA targeting p53 into progerin-infected VSMCs and found that this siRNA counteracted the anti-proliferative effect of progerin on VSMC growth (Figure 6B and C). These results suggested that progerin suppresses VSMC growth via activation of the DNA damage response pathway.

Progerin upregulates pro-inflammatory gene expression in a NF- κ B-dependent, but DNA-PK-independent, manner

Accumulation of prelamin A isoforms at the nuclear lamina was reported to trigger activation of NF-κB and secretion of high levels of pro-inflammatory cytokines in two different mouse models of HGPS⁸. We investigated whether progerin overexpression in VSMCs upregulated pro-inflammatory molecules via a DNA-PK dependent pathway. Microarray analysis revealed upregulation of the production of pro-inflammatory cytokines and extracellular proteases (including MMP-3, GM-CSF, and IL-8) by VSMCs after introduction of progerin compared with wild-type lamin A (Table 4). Upregulation of these molecules was also confirmed by real-time PCR (Figure 7). Inhibition of NF-κB signaling by siRNA targeting *RELA* (p65) attenuated the progerin-induced upregulation of GM-CSF and IL-8, while MMP-3 expression was not significantly affected (Figure 7). We next tested three siRNAs targeting DNA-PKcs or ATM, but none of them downregulated the expression of these pro-inflammatory molecules (Figure 7 and data not shown), suggesting that progerin-induced inflammatory gene activation is independent of DNA-PK activation.

Discussion

In the present study, we performed affinity purification using wild-type lamin A and three mutant forms of lamin A associated with premature aging syndromes as the bait, employing mass spectrometry for analysis of the samples. As a result, we identified over 50 proteins that had not been previously recognized as binding to lamin A. We found that part of this protein network was shared between wild-type lamin A and the lamin A mutants that cause atypical Werner syndrome, although more than half of these proteins did not interact with the mutants. In addition, only a few of the proteins bound to progerin, suggesting that the mutation underlying HGPS most severely impairs the ability of lamin A to interact with functional proteins. Consistent with this concept, our

GO functional analysis revealed that progerin did not interact with a set of proteins that had functions categorized into "DNA damage response" and "muscle", while the two lamin A mutants causing atypical Werner syndrome still interacted with proteins related to the "DNA damage response". Since about 25% of lamin A-binding proteins fitted into this category, we focused on the DNA damage response. Among DNA-PKcs and its associated proteins, Ku80 and Ku70 were found to interact with wild-type lamin A and the two mutants causing atypical Werner syndrome, but not with progerin. We also demonstrated that overexpression of progerin upregulated DNA-PKcs phosphorylation in VSMCs and induced premature senescence of these cells, while DNA-PK knockdown reversed progerin-induced cell growth arrest. These results suggested that reduced binding of progerin to various proteins interferes with the DNA damage response, leading to the development of vascular pathology in HGPS.

While data from several mouse models of HGPS have suggested the importance of the DNA damage response, ^{6, 8, 9} the actual role of this pathway remains unclear. Osorio et al. reported that accumulation of progerin triggers a signaling pathway involving ATM that activates NF-κB, ⁸ and they also demonstrated that NF-κB-driven inflammation is responsible for several important features of the progeroid phenotypes. Interestingly, inhibition of the NF-κB pathway by genetic or pharmacological strategies was able to prevent these phenotypic alterations, demonstrating the causal role of this inflammatory pathway in the pathogenesis of accelerated aging. In agreement with their results, we showed that introduction of progerin into VSMCs led to upregulation of pro-inflammatory genes, while inhibition of NF-κB signaling attenuated the inflammatory response induced by progerin. However, inhibition of ATM or DNA-PK failed to inhibit progerin-induced upregulation of pro-inflammatory genes in VSMCs, suggesting progerin induces inflammation via a mechanism that is independent of the DNA damage response.

Signaling kinases (ATM, ATR and, DNA-PK) are recruited to sites of DNA

damage and are activated at these sites, leading to the local assembly of checkpoint and DNA repair factors and promoting the phosphorylation of transducer kinases (Chk1 and Chk2), which converge on p53¹⁴. Marked upregulation of p53 target genes has been reported in a mouse model of HGPS, while blocking the activation of p53 attenuates premature aging⁶. In aged HGPS cells, Liu et al. found an increase of phosphorylated Chk1 and Chk2 owing to the activation of ATM and ATR ¹⁵. Phosphorylated p53 was also increased, demonstrating that the ATR and ATM checkpoints were persistently activated, as also confirmed by other researchers ¹⁶⁻¹⁸. In the present study, we demonstrated that accumulation of progerin leads to activation of DNA-PK and plays a causal role in senescence of VSMCs, providing evidence that DNA-PK could contribute to the pathogenesis of HGPS.

Various explanations have been proposed for the cell type-specific pathology of laminopathies, including progerin-mediated exhaustion of stem cell pools¹⁹, defects of mesenchymal lineage differentiation²⁰, impairment of the DNA damage repair response²¹, and nuclear fragility in mechanically stressed cells such as cardiomyocytes²². Recently, Liu et al. generated induced pluripotent stem cells (iPSCs) from the fibroblasts of patients with HGPS. They elegantly demonstrated that progerin expression and associated premature senescence were markedly suppressed in the pluripotent state, while the aging phenotype emerged along with progerin expression after differentiation of the cells into VSMCs. However, this does not occur when HGPS-iPSCs undergo differentiation into fibroblasts9. Zhang et al. also generated HGPS-iPSCs and found that progerin levels were highest in mesenchymal stem cells (MSCs) and VSMCs differentiated from the pluripotent cells ¹⁰. Because these cells were sensitive to various stresses, they speculated that progeria may be related to a shortage of MSCs needed for tissue repair. In the present study, we observed that forced expression of progerin induced premature senescence of VSMCs, but not endothelial cells, although the mechanisms underlying these observations are still obscure.

In conclusion, our findings suggest that progerin inhibits VSMC growth via the DNA damage response pathway and that this pathway probably contributes to the pathogenesis of HGPS. Further interactome analysis of lamin A mutants involved in premature aging syndromes could provide a platform for future studies on the link between lamin A and premature aging.

Materials and Methods

Cell culture

HEK293 cells were cultured in DMEM (Sigma) supplemented with 10% FBS, streptomycin (0.1 μg ml⁻¹), and penicillin G (100 units ml⁻¹). Human VSMCs and HUVECs were purchased from Lonza and cultured according to the manufacturer's instructions. Culture was done at 37°C in a humidified incubator with 5% CO₂ and proliferation was assessed by counting cells after subculture. We defined senescent cells as those that did not increase in number and remained subconfluent after 2 weeks of culture. The number of population doublings (PD) was calculated as follows: PD=log (number of cells after culture/initial number of cells)/log 2.

Transfection of expression vectors and retroviral infection

The expression vector pcDNATM5/FRT/TO (Invitrogen) was cut with *Bam* H I and *Xho* I. Fragments of lamin A , progerin, lamin A R133L, or lamin A L140R were ligated into the corresponding restriction sites of pcDNATM5/FRT/TO. The resulting expression vectors were transfected into HEK293 cells by using Fugene. We created vectors based on pLNCX2 (Clontech, Palo Alto, CA, USA) that expressed wild-type lamin A or progerin for retroviral infection, which was done as described previously ²³. Briefly, VSMCs or HUVECs (passages 4–6) were plated at 5×10⁵ cells in 100-mm dishes at 24 hours before infection. Then the culture medium was replaced by retroviral stock medium supplemented with 8 μg ml⁻¹ polybrene (Sigma). From 48 hours after infection, the cells were selected by culture for 7 days in 500 μg ml⁻¹ G418. After selection, 2×10⁵ cells were seeded in 100-mm dishes on the 8th day post-infection, which was designated as day 0. The respective empty vectors were used as controls. In some experiments, after retroviral infection had been performed, siRNAs purchased from Ambion or Invitrogen were transfected at 10 nmol 1⁻¹ with RNAiFect (Qiagen) or Lipofectamine RNAiMAX (Invitrogen) according to the instructions of the respective

manufacturers.

Western blot analysis

Whole-cell lysates were prepared in lysis buffer (10 mM Tris-HCl, pH 8, 140 mM NaCl, 5 mM EDTA, 0.025% NaN3, 1% Triton X-100, 1% deoxycholate, 0.1% SDS, 1 mM PMSF, 5 μg ml⁻¹ leupeptin, 2 μg ml⁻¹ aprotinin, 50 mM NaF, and 1 mM Na₂VO₃). The lysates (40–50 μg) were resolved by SDS-PAGE and proteins were transferred to a PVDF membrane (Millipore), which was incubated with the primary antibody followed by anti-rabbit or anti-mouse immunoglobulin-G conjugated with horseradish peroxidase (Jackson). Specific proteins were detected by the enhanced chemiluminescence method (Amersham). The primary antibodies used for western blotting were as follows: anti-p53 antibody (#2524), anti-actin antibody (#4967) (Cell Signaling), and anti-GAPDH antibody (sc-20357, Santa Cruz), anti-DNA-PK-cs antibody (sc-9051, Santa Cruz), anti-phospho-DNA-PK-cs antibody (Thr2609) (sc-101664, Santa Cruz), anti-Rabbit Monoclonal Anti-FLAG antibody (F2555, Sigma).

Real-time PCR

Total RNA (1 µg) was isolated from tissue samples with RNA-Bee (Tel-Test Inc.). Real-time PCR (qPCR) was performed by using a Light Cycler 480 (Roche) with the Taqman Universal Probe Library and the Light Cycler 480 Probes Master (Roche) according to the manufacturer's instructions. For quantification of the copy number, we used Light Cycler 480 software (version 1.5, Roche) and employed the 'fit points' method according to the manufacturer's instructions. GAPDH was used to normalize the amount of mRNA in each sample.

Transcriptome analysis

VSMCs with p53 deficiency (overexpressing E6) were infected with retroviral vectors

encoding lamin A or progerin and cells were harvested after 30 days. Then total RNA was isolated with RNA-Bee (Tel-Test, Inc.) and the genetic profile of lamin A and progerin were analyzed by using a Human Gene Expression 4x44K v2 Microarray Kit (Agilent Technologies) (n=4 per group). Raw data were subjected to log2 transformation and normalized by using GeneSpring GX v7.3.1 (Agilent Technologies). Genes showing differential expression (q<0.05) were determined by BH-FDR. Gene ontology analysis was performed using the Database for Annotation, Visualization and Integrated Discovery (DAVID) v6.7. Finally, the gene expression data thus obtained were deposited in the Gene Expression Omnibus database (GSE47553).

Identification of proteins by LC-MS/MS

Immunoprecipitated protein samples (approximately 100 µl) were mixed with 400 µl of methanol. 100 µl chloroform was mixed with the samples, followed by the addition of 300 µl distilled water and stirred for 2 minutes. After centrifugation at 2,000 rpm for 2 minutes, the supernatant was removed and 300 µl methanol was added. After centrifugation at 15,000 rpm for 5 minutes, the supernatant was removed and the samples were dried with an evaporator. Dried samples were dissolved with the buffer including 180 mg urea, 0.12 M Tris HCl buffer 1.5M Tris HCl (pH 8.8) 33.3 µl, and H₂O 370 μl, then mixed with 2 μl Tris (2-CarboxyEthyl) Phosphine (TCEP), and incubated at 37 °C for 2 hours. One μl of methyl-methane-thio-sulphonate (MMTS) was added and incubated at room temperature for 10 minutes, followed by overnight incubation with 1 µl lysyl endopeptidase. Digested samples were dried with an evaporator, and then dissolved with 200 µl of 2% acetonitrile/0.1% trifluoroacetic acid. The samples were desalted with a tip made with C18 Empore Disk. The tips including samples were added with 100 µl of 70% acetonitrile/0.1% trifluoroacetic acid. Samples were centrifuged at 2,000 rpm for 5 minutes and the flow-through was discarded. 100 μl of 2% acetonitrile/0.1% trifluoroacetic acid was added and centrifuged at 2,000 rpm for

5 minutes. The flow-through was discarded followed by the addition of 200 μl of 2% acetonitrile/0.1% trifluoroacetic acid. Each 100 µl of samples was added to 2 tips, and was centrifuged at 2,000 rpm for 5 minutes, followed by the discard of the flow-through. The tip was loaded onto a new 1.5 ml tube, 100 µl of 2% acetonitrile/0.1% trifluoroacetic acid was added onto the tip, and the tubes were centrifuged. Eluted samples were dried with an evaporator, and dissolved with 12 µl of 2% acetonitrile/0.1% formic acid, followed by centrifugation at 15,000 rpm for 5 minutes. The supernatant was used for LC-MS/MS analysis. The data were analyzed using MASCOT software (Matrix Science, Wyndham Place, UK). (http://thebiogrid.org/) was used to analyze if identified proteins are novel or previously reported. The proteins thus identified were categorized with the Database for Annotation, Visualization and Integrated Discovery (DAVID v6.7).

Statistical analysis

Results are shown as the mean \pm SEM. The two-tailed Student's *t*-test or one-way ANOVA was used to assess the statistical significance of differences. In all analyses, P<0.05 was considered significant.

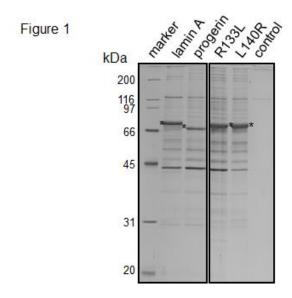
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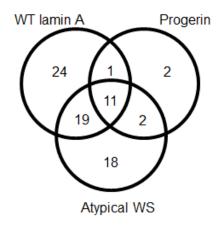
Figure legends

Figure 1 Isolation of lamin A or lamin A mutants-associated complexes.



Wild-type lamin A or lamin A mutant-associated complexes were isolated by immunoprecipitation from HEK293 cells transfected with lamin A or lamin A mutant expression vectors (progerin, R133L, L140R). The immune-isolated complexes were resolved by SDS-PAGE on a 12.5% gel followed by silver staining. Untransfected HEK 293 cells were used in control experiments (control). Asterisks indicate FLAG-tagged lamin A or lamin A mutants.

Figure 2 Venn diagram for the interactome analysis
Figure 2



We identified 55 binding partners of wild-type lamin A, but most were not recognized by lamin A mutants, in particular, progerin.

Figure 3 Progerin loses affinity with DNA-PK and activates it

FLAG IPS DNA-PKcs

B Phospho DNA-PKcs

FLAG phospho DNA-PKcs

FLAG

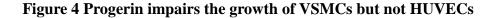
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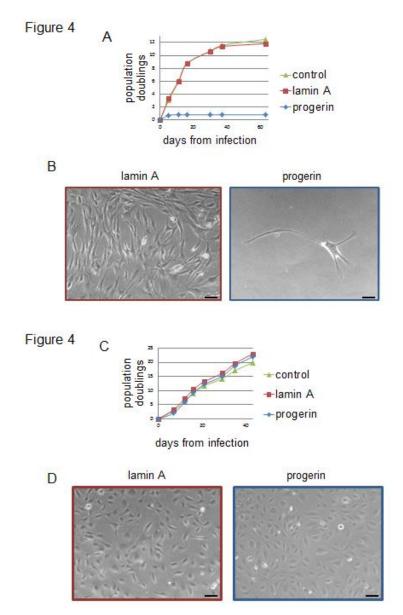
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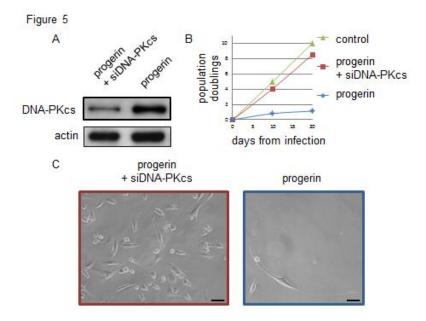
- (A) An expression vector encoding flag-tagged wild-type lamin A or progerin was transduced into HEK293 cells, after which co-immunoprecipitation was conducted with anti-flag antibody. Then the samples were subjected to western blot analysis for detection of DNA-PKcs and flag protein. The empty vector was used as a control.
- (B) An expression vector encoding flag-tagged wild-type lamin A or progerin was transduced into HEK293 cells, following which the levels of phosphorylated DNA-PKcs and flag protein were examined by western blot analysis.





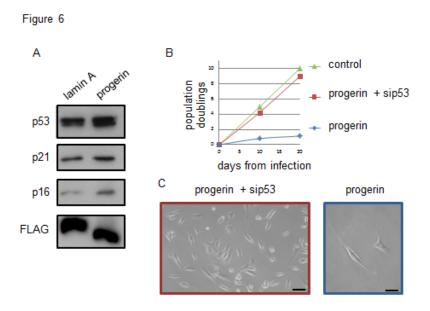
(A) VSMCs were infected with a retroviral vector encoding wild-type lamin A or progerin and population doubling was examined. (B) Representative pictures of VSMCs infected with the wild-type lamin A vector or progerin vector. Scale bar=100 μ m. (C) HUVECs were infected with a retroviral vector encoding wild-type lamin A or progerin and population doubling was examined. (D) Representative pictures of HUVECs infected with the wild-type lamin A vector or the progerin vector. Scale bar=100 μ m.

Figure 5 DNA-PKcs knockdown attenuates progerin-induced inhibition of VSMC growth



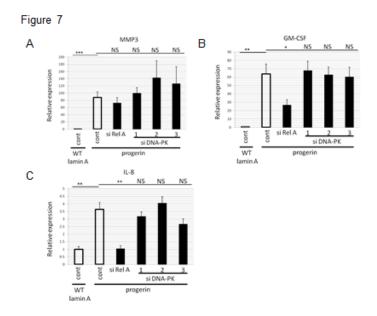
(A) VSMCs were infected with a retroviral vector encoding progerin with or without siRNA targeting DNA-PKcs, after which expression of DNA-PKcs was examined by western blot analysis. (B) Population doubling was examined using VSMCs prepared as explained in (A). (C) Representative pictures of VSMCs prepared as explained in (A). Scale bar=100 μ m.





(A) VSMCs were infected with a retroviral vector encoding wild-type lamin A or progerin, following which expression of p53, p21, and p16 was examined by western blot analysis. (B) VSMCs were infected with a retroviral vector encoding progerin with or without siRNA targeting p53, after which population doubling was examined. (C) Representative pictures of VSMCs prepared as explained in (B). Scale bar=100 μm.

Figure 7 Knockdown of RelA, but not DNA-PK, attenuates progerin-induced upregulation of pro-inflammatory molecules in VSMCs



VSMCs were infected with a retroviral vector encoding wild-type lamin A or progerin and with siRNA targeting the NF- κ B component RELA (p65) or DNA-PKcs. Then expression of MMP3, GM-CSF, and IL-8 was examined by real-time PCR. Control siRNA was also transfected as a control. NS, not significant. * P < 0.05. ** P < 0.01.

Table1: Gene Ontology terms of proteins ineteracted with wild-type lamin A, R133L, L140R, or progerin.

	lamin A	progerin	R133L	L140R
DNAdamage response	•		•	•
Muscle	•			
Cytoskeleton	•	•	•	•
Intranuclear	•	•	•	•
nuclear lamina	•	•	•	•
nuclear membrane	•	•	•	•
nuclear periphery	•	•	•	•

DNA Damage Response

DNA-dependent protein kinase-DNA ligase 4 complex, nonhomologous end joining complex

muscle

contractile fiber, contractile fiber part, fascia adherens, I band, myofibril, sarcomere, Z disc

cytoskeleton

actin cytoskeleton, Arp2/3 protein complex, cortical actin cytoskeleton, cytoskeleton, cytoskeletal part, intermediate filament, intermediate filament cytoskeleton, lamin filament, spectrin

intranuclear

chromatin, chromosome, chromosomal part, chromosome telomeric region, DNA replication factor A complex, intracellular organelle lumen, nuclear chromosome, nuclear chromosome part, nuclear chromosome telomeric region, nuclear matrix (p, 133), nuclear replication fork, nuclear replisome, nuclear telomere cap complex, nucleoplasm, nucleoplasm part, replisome, telomere cap complex

nuclear lamina

lamin filament (p, 133,140), nuclear lamina

nuclear membrane

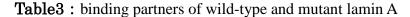
endomembrane system, membrane-enclosed lumen (133), nuclear inner membrane, nuclear membrane, organelle inner membrane (p,133), organelle membrane, protein-DNA complex

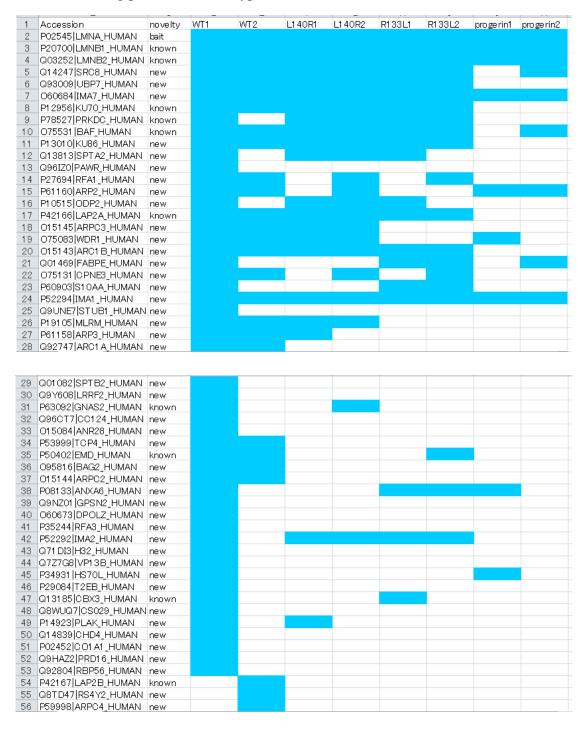
nuclear periphery

cell-cell adherens junction (140), cell cortex, cell leading edge, cell projection, envelope, intercalated disc, intracellular non-membrane-bounded organelle, intracellular organelle lumen, lamellipodium, membrane-enclosed lumen, non-membrane-bounded organelle, nuclear envelope, nuclear lumen, nuclear periphery, nuclear pore, organelle envelope, organelle lumen, pore complex,

Table 2: Binding partners of wild-type lamin \boldsymbol{A}

1 Accession	sample1		Total	%Cov		%Cov(95)	sample2				%Cov(50) 9	
2 P02545 LMNA_HUMAN		102.68	102.68	95.6325	66.41566	64.759		104.83	104.83	96.6867	76.95783	73.3434
3 P20700 LMNB1 HUMAN		36.33	36.33	74.2321	52.21843	43.3447		38.5	38.5	79.5222	61.77474	41.8089
4 Q03252 LMNB2 HUMAN		16.07	16.45		29.33333	19.6667		21.3	22.55	54	34.16667	30.8333
5 Q14247 SRC8 HUMAN		13.25	13.25	41.0909		14.5455		19.08	19.08		27.27273	21.8182
6 Q93009 UBP7 HUMAN		7.13	7.13	21.9601	7.350272	3.0853		18.79	18.79		15.33575	14.1561
7 060684 IMA7 HUMAN		8.51	8.51		19.02985	14.5522		14.89	14.89		22.94776	21.268
8 P12956 KU70_HUMAN		8.76	8.76		11.98686	10.3448		11.33	11.33		15.27094	12.8079
		0.10	0.70	30.0433	11.30000	10.5440						
9 P78527 PRKDC_HUMAN								11.25	11.25		2.131783	1.91376
0 075531 BAF_HUMAN		7.31	7.31		43.82023	43.8202		10.51	10.51		53.93258	43.8202
1 P13010 KU86_HUMAN		0.91	0.91	16.6667	2.459016	0		9.58	9.58	36.3388	10.79235	10.7924
2 P42167 LAP2B_HUMAN		0	2.32	10.3524	2.643172	2.64317						
3 Q13813 SPTA2_HUMAN								6.04	6.04	21.157	2.022654	2.02265
4 Q96IZ0 PAWR HUMAN								6.01	6.01	38.2353	25.88235	25.882
5 P27694 RFA1 HUMAN		1.04	1.04	10.7143	1.948052	0		6	6		9.415584	9.41558
6 P61160 ARP2_HUMAN		3.47	3.47		6.598984	3.80711		5.9	5.9		11.42132	9.1370
7 P10515 ODP2 HUMAN		0.17	0.17	20.1121	0.000001	0.00711		5.3	5.3		7.491857	7.4918
8 P42166 LAP2A HUMAN		4.02	4.02	22.7752	4.034582	4.03458		5.15	5.15		7.348703	5.3314
9 015145 ARPC3_HUMAN		2.28	2.28		7.303371	7.30337		4.92	4.92	42.0900	29.21348	21.910
0 Q8TD47 RS4Y2_HUMAN		0	2		4.562738	4.56274		4.01		40.000	7.000705	0.00-
1 075083 WDR1_HUMAN		1.7	1.7	12.5413	2.970297	0		4.31	4.31	19.802	7.260726	3.960
a laces depends a minimum									-1		. =====	. =
2 Q92804 RBP56_HUMAN								0	2		1.52027	1.5202
3 015143 ARC1B_HUMAN		4	4	17.2043	9.408602	9.4086		4	4	15.5914	8.333334	8.3333
4 Q01469 FABPE_HUMAN								3.4	3.4	23.7037	19.25926	19.259
5 075131 CPNE3 HUMAN		3.7	3.7	10.987	4.841713	4.84171		2.94	2.94	17.1322	6.89013	2.4208
6 P60903 S10AA_HUMAN								2.68	2.68	26.8041	26.80412	17.525
7 P52294 IMA1 HUMAN		1.7	3.23	15 2416	4.832714	4.83271		2.6	6.64		10.96654	8.9219
8 Q9UNE7 STUB1 HUMAN			0.20			1.00211		2.6	2.6		12.87129	5.9405
9 P59998 ARPC4 HUMAN		1.3	1.3	0 22222	8.333334	8.33333		2.0	2.0	20.402	12.07123	0.0400
		0	2			7.01754		2.22	2.22	20.4670	7.017544	7.0175
0 P19105 MLRM_HUMAN					7.017544				2.22			
1 P61158 ARP3_HUMAN		2	2		2.870813			2.17	2.17		4.066985	4.0669
2 Q92747 ARC1A_HUMAN		0.71	0.71	13.2432	3.243243	0		2.14	2.14		3.783784	3.7837
3 Q01082 SPTB2_HUMAN								2.02	2.02	12.4365	1.649746	1.6497
4 Q9Y608 LRRF2_HUMAN								2.02	2.02	18.8627	3.32871	3.3287
5 P63092 GNAS2 HUMAN								2.01	2.01	15.4822	2.791878	2.7918
6 Q96CT7 CC124 HUMAN								2	2	45.7399	5.381166	5.3811
7 015084 ANR28 HUMAN								2	2	10.8656	0.644567	0.6445
8 P53999 TCP4 HUMAN		2	2	33 0709	10.23622	10.2362		2	2		10.23622	10.236
9 P50402 EMD HUMAN		2	2		3.937008	3.93701		2	2		3.937008	3.9370
		2.31			12.32227	5.21327		1.99			12.32227	
0 095816 BAG2_HUMAN			2.31						1.99			5.2132
1 015144 ARPC2_HUMAN		1.28	1.28	21.3333	3.333334	0		1.9	1.9	35	12	
2 P08133 ANXA6_HUMAN								1.89	1.89	26.3001	6.686478	
								_				
3 Q9NZ01 GPSN2_HUMAN								1.3			3.246753	
4 060673 DPOLZ_HUMAN								1.55			8 0.479233	
5 P35244 RFA3_HUMAN								1.52			14.04959	
6 P52292 IMA2_HUMAN								1.35	5 1.35	23.818	5 3.591682	
7 Q71 DI3 H32_HUMAN								1.31	1.31	43.382	4 5.882353	5.882
8 Q7Z7G8 VP13B_HUMAN								1.23	3 1.23	5.6936	0.323222	
9 P34931 HS70L HUMAN								1.15				
P29084 T2EB HUMAN								1.10			B 4.467354	
1 Q13185 CBX3_HUMAN								0.84			2 7.650273	
2 Q8WUQ7 CS029_HUMAN								0.72			1 1.014493	
3 P14923 PLAK_HUMAN								9.0			2 1.612903	
4 Q14839 CHD4_HUMAN								0.48	0.48	6.7468	0.575314	
5 P02452 C01A1_HUMAN								0.47	7 0.47	8.1967:	1.36612	
6 Q9HAZ2 PRD16_HUMAN								0.47			7 1.097179	





57	Q5SRN2 CF010_HUMAN	new				
58	Q8IUQ4 SIAH1_HUMAN	new				
59	Q8NFQ8 TOIP2_HUMAN	new				
60	P22492 H1 T_HUMAN	new				
61	Q9Y2T7 YBOX2_HUMAN	new				
62	P63208 SKP1_HUMAN	new				
63	P82094 TMF1_HUMAN	known				
64	Q96A08 H2B1A_HUMAN	new				
65	P34947 GRK5_HUMAN	new				
66	Q52M93 Z585B_HUMAN	new				
67	P13942 COBA2_HUMAN	new				
68	P1 2235 ADT1_HUMAN	new				
69	Q9Y281 COF2_HUMAN	new				
70	Q8N257 H2B3B_HUMAN	new				
71	Q86UV5 UBP48_HUMAN	new				
72	O15131 IMA5_HUMAN	new				
73	Q15072 OZF_HUMAN	new				
74	Q9NY65 TBA8_HUMAN	new				
75	Q05639 EF1 A2_HUMAN	new				
76	O14974 MYPT1_HUMAN	new				
77		new				
78	P54652 HSP72_HUMAN	new				

Table4: Microarray analysis

- 4					_	-	_	- 11	
		В	C	D D D D D D A	E	F	G	Н	I
1	sample			P1,P2,P3,P4				0.14.1	OFNE OVARDOL
2	MeasurementID		W (Processed)			Fold Intensity			GENE_SYMBOL
3	A_23_P10121	1949.083		559.56793	-1.0933652	4.644845369		6.31E-05	
4	A_23_P101407	205.58698				29.313196		5.05E-04	
5	A_23_P102364	5609.72	1.1263759	1701.5264	-1.0351338	4.47382795	down	2.83E-04	NGEF
6	A_23_P102611	367.88733	1.4622462	73.965385	-1.2184049	6.411452393	down	0.00131666	WISP2
7	A_23_P103601	2409.6934	1.416776	406.232	-1.5885901	8.029811414	down	3.69E-04	MAN1C1
8	A_23_P103877	257.6385	1.107465	85.44928	-0.92779744	4.09897315	down	0.00166683	LRRC38
9	A_23_P104073	1786.4855	0.8017895	781.1071	-0.81022644	3.056786846	down	7.88E-04	S100A3
10	A_23_P10542	1204.2821	1.6460173	152.04425	-1.7330652	10.40411562	down	4.46E-05	HTRA3
	A_23_P10647	4074.7957	1.1773746	1124.4749	-1.083786	4.793769633		5.00E-04	
	A_23_P108501	269.755		74.01312	-1.1195382	4.851678135		5.00E-04	
	A_23_P108823	202.4681				4.3941216		7.04E-04	
	A_23_P109269	198.1326		73.46126		3.568619303		1.93E-04	
	A_23_P111860	468.28683				3.363712591		6.31E-05	
	A_23_P113613	402.2611				6.561729		0.00183207	
	A 23 P114414	33.59012		184.98561	0.93490434	4.044439		0.00155629	
17	A_23_F114414	33.33012	-1.0610331	104.30301	0.53450434	4.044433	ир	0.00133029	LOINES
	Α	В	С	D	Е	F	G	Н	Ī
10	A 23 P114423	308.29935		70.88101	-1.28306	5.863904064		7.46E-05	
19	A 23 P114689	640.5663			-1.0256959	3.974633887		5.64E-04	
	A 23 P114883								
		6993.5557		1386.4321	-1.1997037	6.45994832		0.00192356	
21	A_23_P115064	16315.2		4174.4355		5.184265381		2.42E-04	
	A_23_P116264	1791.6968				3.673883337		0.00230223	
	A_23_P120594	149.56468		50.26539	-1.06149	4.007526937		5.06E-04	
	A_23_P121637	102.87616			0.99659514	3.747656		2.22E-04	
	A_23_P121885	343.49896		101.373344		4.590636635		0.00301133	
	A_23_P12363	366.1189		132.49818	-0.8675462	3.571034482		0.0014113	
	A_23_P125423	5993.8335				4.715727683		0.00360391	
	A_23_P126089	34.46485				4.7159114		2.53E-04	
	A_23_P12733	143.44452				10.35356171		1.67E-04	
	A_23_P128174	57.537846			0.99252915	4.107319	•	3.84E-04	
31	A_23_P129005	514.66266				4.658731821		0.00258359	
	A_23_P13094	16.267855			1.7835184	11.89615	up	1.02E-04	MMP10
33	A_23_P131263	67.007675	-0.91880906	306.54678	0.84545445	3.3970053	up	3.07E-04	MPP4
34	A_23_P131676	816.5483	1.7736065	112.27095	-1.4556234	9.377673223	down	0.00106487	CXCR7
35	A_23_P132159	1170.8888	1.0115061	410.06412	-0.92203903	3.819927108	down	0.00197986	HSP18
	A_23_P133293	46.11276		555.39514	1.4065697	9.630294		0.00275598	
	A_23_P133408	17.584705				170.87903		0.00273330	
	A_23_P134176	2937.7043				5.292268		9.22E-05	
	A_23_P134835	2009.895		764.3793	-0.903301	3.472927419			CSGALNACT1
	A_23_P134633	1181.1946				3.3211355		9.99E-05	
	A_23_P137010 A_23_P137470	290.76956			-0.9006635	3.648899397		9.57E-04	
	A_23_P137470 A_23_P138680	666.61066		251.62296	-0.8156514	3.499370288		0.00183207	
	A 23 P139143	102.49496			0.80381036	3.1502175		3.05E-04	
	A_23_P139143 A_23_P139912	45750.215			-0.9561615	3.1502175		3.05E-04 3.34E-04	
						3.808315304			
	A_23_P140427	3164.2373		1126.3201	-0.9425149			1.83E-04	
	A_23_P140748	2595.8687		891.26874		3.850714425		2.21E-04	
	A_23_P141429	343.79816		57.8985	-1.5034189	8.078035112		5.00E-04	
	A_23_P142849	3362.5542			0.85045385	3.1877453		0.00162657	
	A_23_P142872	237.23782			-1.801672	11.91503153		9.10E-05	
	A_23_P14302	3355.977	0.925858	1226.5398		3.653058779			C14orf139
51	A_23_P143190	1365.9084	0.95340943	517.43304	-0.8824322	3.5697959	down	3.21E-04	MYBL2
		- /-							

	Α	В	С	D	Е	F	G	Н	I
52	A_23_P144476	267.0265	1.1516762	77.62152	-1.0060843	4.462216959	down	0.00150546	SPRY1
53	A_23_P145114	93.06875	-1.1300719	476.7817	0.850204	3.9456851	up	0.00159324	GCLC
54	A_23_P14515	750.27075	0.85849285	294.79724	-0.9162197	3.421698234	down	3.34E-04	ACOT4
55	A_23_P145935	268.30914	0.98292935	76.31889	-1.2605149	4.735261699	down	0.00417977	EPHB6
56	A_23_P146922	53.792698	-1.1027968	348.48215	1.163152	4.809706	up	2.57E-04	GAS6
57	A_23_P149121	156.38953	-1.1395619	1035.6754	1.1268532	4.811261	up	2.50E-04	DIRAS3
58	A_23_P149281	31.976458	-1.0713451	195.4946	1.1139034	4.548051	up	8.68E-05	EPHA2
59	A_23_P149545	27.562002	-1.0059456	132.69037	0.890259	3.7223265	up	0.00463113	HIST2H2BE
60	A_23_P150281	222.1926	1.1101408	58.622643	-1.2391254	5.095649676	down	3.63E-04	TP53I11
61	A_23_P150609	4064.3665	0.834522	1696.0723	-0.7991755	3.103072911	down	0.001919	IGF2
62	A_23_P15146	54.709526	-0.7760948	227.97588	0.8754078	3.1416068	up	0.001919	IL32
63	A_23_P151710	498.4145	1.4644558	93.01267	-1.4021052	7.293245426	down	2.85E-05	PTGER2
64	A_23_P151975	82.77395	-1.0377737	464.31754	1.0008729	4.1085997	up	0.00115091	RHCG
65	A_23_P152002	16.597757	-2.2712026	480.56885	2.1308076	21.14156	up	5.20E-05	BCL2A1
66	A_23_P152791	26.041405	-1.5992883	158.49922	0.7154459	4.97513	up	0.02354376	SLC16A6
67	A_23_P154605	297.74197	2.0327106	18.305895	-2.417928	21.86632399	down	4.15E-04	SULF2
68	A_23_P155755	606.8343	-1.1788418	3668.487	1.0345032	4.6374927	up	0.00298059	CXCL6

69	A_23_P156708	20502.057	1.1467674	6209.1953	-0.95624757	4.296062457 down	0.00211715 TNXB
70	A_23_P159952	1494.6116	-1.8255439	23136.268	1.689168	11.42967 up	9.97E-05 BEX1
71	A_23_P161218	14.901379	-1.6331618	174.93057	1.4998959	8.7729225 up	1.32E-04 ANKRD1
72	A_23_P161698	26.833477	-5.4848156	48707.9	4.940816	1375.3961 up	8.17E-04 MMP3
73	A_23_P161727	1432.7543	1.0202134	522.15094	-0.86956334	3.705778665 down	0.0019269 HSPB2
74	A_23_P16275	174.63235	1.4575638	28.901966	-1.569313	8.15043446 down	0.00144497 TSKS
75	A_23_P163402	65.2929	-0.9063997	305.54187	0.8797324	3.44889 up	3.29E-04 CYP1A1
76	A_23_P164057	7630.629	1.3850389	1771.5237	-1.0789301	5.51732509 down	0.00309797 MFAP4
77	A_23_P165783	161.3626	-1.0591307	890.3654	0.9589534	4.050455 up	0.00254723 MLPH
78	A_23_P166087	2927.3938	1.4972677	520.06335	-1.3983917	7.441840528 down	5.69E-05 RASSF2
79	A_23_P166297	189.31093	0.68165624	55.240326	-1.6362059	4.985927966 down	0.02431308 ABCG1
80	A_23_P166797	296.78625	1.4290576	56.20061	-1.3851358	7.033258875 down	1.71E-04 RTP4
81	A_23_P166848	58.52322	-0.9785664	283.04016	0.86820674	3.5969477 up	0.00105987 LTF
82	A_23_P167367	13.690687	-1.5387561	136.5354	1.3720733	7.520505 up	8.27E-04 PITX2
83	A_23_P167983	272.3631	-1.0362378	1461.072	0.9798002	4.044715 up	5.89E-04 HIST1H2AC
84	A_23_P168610	25.899992	-1.4376636	255.67638	1.3997506	7.147379 up	1.07E-04 TSPAN13
85	A_23_P17663	4026.7688	1.930764	425.75632	-1.7391291	12.72764021 down	4.35E-04 MX1
	_					_	
	A_23_P1782	223.27863	-1.4313935	2314.5332	1.5160203	7.713651 up	6.02E-05 CD82
	A_23_P18017	15.361082	-1.447836	140.34203	1.3253056	6.835949 up	0.0020113 CPA3
	A_23_P1962	6617.2593	1.4771059	1285.6295	-1.3145657	6.924315843 down	0.00104794 RARRES3
89	A_23_P200710	343.53702	0.8162048	150.17845	-0.7978232	3.061052883 down	9.11E-05 PIK3C2B
90	A_23_P201459	10398.144	2.0124943	951.6782	-1.8311765	14.35688547 down	2.53E-04 IFI6
91	A_23_P202071	83.38672	-0.9656141	346.25964	0.70788217	3.189867 up	0.00479177 CUGBP2
		15985.53	1.6802723	2209.2058	-1.5744479	9.544834522 down	4.37E-05 CXCL12
93	A_23_P204087	303.49814	1.3705155	51.35577	-1.6505351	8.117584181 down	6.45E-04 OAS2
	A_23_P204751	358.44366	0.8978975	125.329475	-1.0543857	3.869864656 down	0.00471869 ACCN2
95	A_23_P205370	25.588142	-0.9127561		0.9004718	3.514277 up	0.00280483 ASB2
	A_23_P206733	80.717415	-1.2030247	487.36386	0.9484198	4.4427238 up	0.00330651 CES1
	A_23_P207507	12.888317	-1.9279718	276.98224	2.0619094	15.888172 up	4.45E-05 ABCC3
	A_23_P208210	63.289253	-0.9394139	280.44086	0.8174387	3.3796003 up	0.00123538 ZNF432
		36.989204	-1.1622517	334.24673	1.5553256	6.5776725 up	0.00198136 PI3
100	A_23_P211522	1637.585	1.0851877	490.288	-1.0894849	4.514832897 down	2.55E-04 SYNGR1
101	A_23_P211631	17032.113	1.0238733	5439.6514	-1.0527298	4.218128716 down	3.02E-05 FBLN1
102	A_23_P21207	672.79767	0.7941239	294.2318	-0.82739496	3.07698812 down	6.72E-04 UBA7

400	A 00 D040000	40.075.400	4 0007700	0400455	4 007000	5 7700404	0.004.005.44 NEVDIZ
	A_23_P212089	46.075466	-1.3207706	348.9455	1.207886	5.7703404 up	0.00130544 NFKBIZ
	A_23_P21363	3121.2295	0.8796761	1298.5933	-0.8217652	3.252256741 down	5.05E-04 AHNAK
	A_23_P214026	2657.9087	1.050461	828.5382	-0.973475	4.066918376 down	0.00537191 FBN2
	A_23_P214079	206.63562	-0.88434327	886.0408	0.7883327	3.1880538 up	0.00100397 SPINK1
107	A_23_P214144	43.318974	-2.8255162	3644.2913	3.115306	61.42788 up	6.31E-05 COL10A1
	A_23_P214821	18.309952	-1.7948703	264.73584	1.6366756	10.789422 up	0.00126937 EDN1
109	A_23_P215634	8235.232	1.7004538	1354.2485	-1.1982565	7.457593699 down	0.00706848 IGFBP3
110	A_23_P215900	13244.992	0.88787556	5464.7847	-0.82847	3.286029838 down	2.22E-04 SCARA3
111	A_23_P216023	125.76207	-1.038451	555.29517	0.7414777	3.434092 up	0.00364284 ANGPT1
112	A_23_P216966	14858.253	0.7646539	6385.248	-0.86867356	3.102276792 down	0.0023194 PTGS1
113	A 23 P217319	688.287	2.5248854	24.744257	-2.701157	37.42790216 down	4.38E-04 FGF13
	A_23_P22134	32.766148	-1.937252	614.9236	1.8715496	14.014046 up	3.02E-05 BNC1
	A 23 P22350	247.39163	-0.84947765	1049.3751	0.8326297	3.2089634 up	3.77E-04 GRAMD3
	A 23 P2283	35.381805	-0.9188857	161.74283	0.83082986	3.3629227 up	3.62E-04 TAC3
	A_23_P24077	1606.1937	0.9695921	544.86206	-1.0122511	3.949974365 down	0.002695 C10orf54
		4605.3325	-1.0129423	28690.05	1.1950593	4.6203485 up	3.34E-04 TMEM132A
	A_23_P24716					•	
119	A_23_P250358	171.38445	1.0386679	55.632072	-0.99373376	4.090852767 down	6.32E-05 HERC6
120	A_23_P251499	14912.597	0.9307976	5758.64	-0.84565973	3.425838979 down	4.65E-04 PCOLCE
	A_23_P252062	1251.5892	1.1961248	313.7552	-1.227617	5.365608542 down	4.82E-05 PPARG
	A_23_P252541	405.61957	1.1374819	115.35464	-1.1053995	4.733414565 down	4.82E-05 RAB7B
	A_23_P253221	317.4141	-0.9405632	1642.2932	0.9994087	3.8369818 up	4.16E-04 ARHGEF4
	A_23_P254741	18422.936	1.1136844	5998.1626	-0.88026714	3.983265188 down	8.88E-04 SOD3
	A_23_P257003	291.18466	1.1758821	79.84735	-1.079702	4.775276446 down	0.00114592 PCSK5
126	A_23_P257649	388.1622	1.5715585	48.939556	-1.836299	10.61371245 down	7.71E-04 RBP1
127	A_23_P258769	1241.8488	1.5110216	248.10727	-1.2603073	6.827365556 down	0.00135347 HLA-DPB1
128	A_23_P259071	837.84894	-1.1417129	5939.935	1.1750429	4.982106 up	0.00179086 AREG
129	A_23_P259442	2683.9158	1.1530533	870.11664	-0.8257549	3.941673325 down	0.00563235 CPE
	A_23_P26024	211.73592	-2.2154083	5572.722	2.068947	19.485853 up	9.27E-04 C15orf48
	A_23_P26124	30.000992	-1.3120487	254.53812	1.3167602	6.1851516 up	5.33E-04 RORA
	A_23_P27315	4487.2803	1.072628	1310.2317	-1.1140356	4.552514668 down	2.85E-05 EMILIN2
	A_23_P29124	1054.9204	1.1387248	298.9345	-1.1167543	4.774928493 down	4.46E-05 5-Sep
	A_23_P29939	49.42626	-2.1406221	1290.0631	2.1432142	19.478848 up	2.85E-05 SNCA
					-0.7458403	3.828732378 down	0.0154497 HIST2H2AC
	A_23_P301247	7815.1567	1.1910264	2749.6677			
130	A_23_P302470	300.0849	1.356322	57.15892	-1.4720839	7.102888176 down	9.22E-05 SULT1B1
	A_23_P30567	2579.1191	1.1980104	568.4359	-1.4441376	6.242604465 down	0.00189928 CRHBP
	A_23_P30655	582.66077	-0.8443923	2396.9226	0.7617831	3.044437 up	0.00138947 NFKBIE
139	A_23_P315364	626.52167	-2.0396333	12556.196	1.9085863	15.43592 up	2.23E-04 CXCL2
140	A_23_P316612	160.61485	1.0334034	50.272438	-1.0871468	4.34859749 down	1.09E-04 GLIS1
141	A_23_P321846	34.61521	-0.77942336	150.4014	0.9258604	3.2609305 up	0.00183542 KCNS1
142	A_23_P32414		0.77012000				
143		289.087	-1.071758	1557.0873	0.95900965	4.086222 up	4.38E-04 RP6-213H19.1
144	A_23_P3312	289.087 26285.438		1557.0873 11074.92	0.95900965 -0.8402877	4.086222 up 3.199781903 down	
145	A_23_P3312 A_23_P334870		-1.071758				4.38E-04 RP6-213H19.1
	A_23_P334870	26285.438 47.650093	-1.071758 0.8376858 -0.94490147	11074.92	-0.8402877	3.199781903 down 3.4154243 up	4.38E-04 RP6-213H19.1 3.02E-04 ISLR 5.01E-04 TMEM217
146		26285.438 47.650093 533.3328	-1.071758 0.8376858 -0.94490147 0.8990567	11074.92 215.32068 212.90585	-0.8402877 0.82716334 -0.86992323	3.199781903 down 3.4154243 up 3.40812881 down	4.38E-04 RP6-213H19.1 3.02E-04 ISLR
	A_23_P334870 A_23_P337729 A_23_P339098	26285.438 47.650093 533.3328 276.04102	-1.071758 0.8376858 -0.94490147 0.8990567 -1.1599997	11074.92 215.32068 212.90585 1762.8695	-0.8402877 0.82716334 -0.86992323 1.0751288	3.199781903 down 3.4154243 up	4.38E-04 RP6-213H19.1 3.02E-04 ISLR 5.01E-04 TMEM217 3.20E-04 TMEM180 8.60E-04 SLC35F2
147	A_23_P334870 A_23_P337729 A_23_P339098 A_23_P342138	26285.438 47.650093 533.3328 276.04102 962.18665	-1.071758 0.8376858 -0.94490147 0.8990567 -1.1599997 0.84300256	11074.92 215.32068 212.90585 1762.8695 371.52658	-0.8402877 0.82716334 -0.86992323 1.0751288 -0.97584176	3.199781903 down 3.4154243 up 3.40812881 down 4.708046 up 3.527984591 down	4.38E-04 RP6-213H19.1 3.02E-04 ISLR 5.01E-04 TMEM217 3.20E-04 TMEM180 8.60E-04 SLC35F2 5.77E-04 ADAMTSL1
147 148	A_23_P334870 A_23_P337729 A_23_P339098 A_23_P342138 A_23_P34375	26285.438 47.650093 533.3328 276.04102 962.18665 752.76465	-1.071758 0.8376858 -0.94490147 0.8990567 -1.1599997 0.84300256 1.0100815	11074.92 215.32068 212.90585 1762.8695 371.52658 237.76868	-0.8402877 0.82716334 -0.86992323 1.0751288 -0.97584176 -1.0661007	3.199781903 down 3.4154243 up 3.40812881 down 4.708046 up 3.527984591 down 4.216898716 down	4.38E-04 RP6-213H19.1 3.02E-04 ISLR 5.01E-04 TMEM217 3.20E-04 TMEM180 8.60E-04 SLC35F2 5.77E-04 ADAMTSL1 4.45E-05 TCEA3
147 148 149	A_23_P334870 A_23_P337729 A_23_P339098 A_23_P342138 A_23_P34375 A_23_P348257	26285.438 47.650093 533.3328 276.04102 962.18665 752.76465 374.03552	-1.071758 0.8376858 -0.94490147 0.8990567 -1.1599997 0.84300256 1.0100815 -0.9819057	11074.92 215.32068 212.90585 1762.8695 371.52658 237.76868 1840.8488	-0.8402877 0.82716334 -0.86992323 1.0751288 -0.97584176 -1.0661007 0.91572714	3.199781903 down 3.4154243 up 3.40812881 down 4.708046 up 3.527984591 down 4.216898716 down 3.7260134 up	4.38E-04 RP6-213H19.1 3.02E-04 ISLR 5.01E-04 TMEM217 3.20E-04 TMEM180 8.60E-04 SLC35F2 5.77E-04 ADAMTSL1 4.45E-05 TCEA3 1.96E-04 NUAK1
147 148 149 150	A_23_P334870 A_23_P337729 A_23_P339098 A_23_P342138 A_23_P34375 A_23_P348257 A_23_P355517	26285.438 47.650093 533.3328 276.04102 962.18665 752.76465 374.03552 20.184444	-1.071758 0.8376858 -0.94490147 0.8990567 -1.1599997 0.84300256 1.0100815 -0.9819057 -1.8077773	11074.92 215.32068 212.90585 1762.8695 371.52658 237.76868 1840.8488 308.41547	-0.8402877 0.82716334 -0.86992323 1.0751288 -0.97584176 -1.0661007 0.91572714 1.6772091	3.199781903 down 3.4154243 up 3.40812881 down 4.708046 up 3.527984591 down 4.216898716 down 3.7260134 up 11.196581 up	4.38E-04 RP6-213H19.1 3.02E-04 ISLR 5.01E-04 TMEM217 3.20E-04 TMEM180 8.60E-04 SLC35F2 5.77E-04 ADAMTSL1 4.45E-05 TCEA3 1.96E-04 NUAK1 2.79E-04 SYNPO2L
147 148 149 150 151	A_23_P334870 A_23_P337729 A_23_P339098 A_23_P342138 A_23_P34375 A_23_P348257 A_23_P355517 A_23_P362694	26285.438 47.650093 533.3328 276.04102 962.18665 752.76465 374.03552 20.184444 321.74622	-1.071758 0.8376858 -0.94490147 0.8990567 -1.1599997 0.84300256 1.0100815 -0.9819057 -1.8077773 -2.3017256	11074.92 215.32068 212.90585 1762.8695 371.52658 237.76868 1840.8488 308.41547 7562.238	-0.8402877 0.82716334 -0.86992323 1.0751288 -0.97584176 -1.0661007 0.91572714 1.6772091 1.9096949	3.199781903 down 3.4154243 up 3.40812881 down 4.708046 up 3.527984591 down 4.216898716 down 3.7260134 up 11.196581 up 18.525242 up	4.38E-04 RP6-213H19.1 3.02E-04 ISLR 5.01E-04 TMEM217 3.20E-04 TMEM180 8.60E-04 SLC35F2 5.77E-04 ADAMTSL1 4.45E-05 TCEA3 1.96E-04 NUAK1 2.79E-04 SYNPO2L 8.78E-04 C4orf7
147 148 149 150 151 152	A_23_P334870 A_23_P337729 A_23_P339098 A_23_P342138 A_23_P34375 A_23_P348257 A_23_P355517 A_23_P362694 A_23_P363174	26285.438 47.650093 533.3328 276.04102 962.18665 752.76465 374.03552 20.184444 321.74622 937.7749	-1.071758 0.8376858 -0.94490147 0.8990567 -1.1599997 0.84300256 1.0100815 -0.9819057 -1.8077773 -2.3017256 0.9877479	11074.92 215.32068 212.90585 1762.8695 371.52658 237.76868 1840.8488 308.41547 7562.238 384.28528	-0.8402877 0.82716334 -0.86992323 1.0751288 -0.97584176 -1.0661007 0.91572714 1.6772091 1.9096949 -0.75181293	3.199781903 down 3.4154243 up 3.40812881 down 4.708046 up 3.527984591 down 4.216898716 down 3.7260134 up 11.196581 up 18.525242 up 3.339334897 down	4.38E-04 RP6-213H19.1 3.02E-04 ISLR 5.01E-04 TMEM217 3.20E-04 TMEM180 8.60E-04 SLC35F2 5.77E-04 ADAMTSL1 4.45E-05 TCEA3 1.96E-04 NUAK1 2.79E-04 SYNPO2L 8.78E-04 C4orf7 0.01111404 HIST1H2AL
147 148 149 150 151 152	A_23_P334870 A_23_P337729 A_23_P339098 A_23_P342138 A_23_P34375 A_23_P348257 A_23_P355517 A_23_P362694	26285.438 47.650093 533.3328 276.04102 962.18665 752.76465 374.03552 20.184444 321.74622	-1.071758 0.8376858 -0.94490147 0.8990567 -1.1599997 0.84300256 1.0100815 -0.9819057 -1.8077773 -2.3017256	11074.92 215.32068 212.90585 1762.8695 371.52658 237.76868 1840.8488 308.41547 7562.238	-0.8402877 0.82716334 -0.86992323 1.0751288 -0.97584176 -1.0661007 0.91572714 1.6772091 1.9096949	3.199781903 down 3.4154243 up 3.40812881 down 4.708046 up 3.527984591 down 4.216898716 down 3.7260134 up 11.196581 up 18.525242 up	4.38E-04 RP6-213H19.1 3.02E-04 ISLR 5.01E-04 TMEM217 3.20E-04 TMEM180 8.60E-04 SLC35F2 5.77E-04 ADAMTSL1 4.45E-05 TCEA3 1.96E-04 NUAK1 2.79E-04 SYNPO2L 8.78E-04 C4orf7
147 148 149 150 151 152 153	A_23_P334870 A_23_P337729 A_23_P339098 A_23_P342138 A_23_P34375 A_23_P348257 A_23_P355517 A_23_P36694 A_23_P366366	26285.438 47.650093 533.3328 276.04102 962.18665 752.76465 374.03552 20.184444 321.74622 9163.77749	-1.071758 0.8376858 -0.94490147 0.8990567 -1.1599997 0.84300256 1.0100815 -0.9819057 -1.8077773 -2.3017256 0.9877479 0.88199925	11074.92 215.32068 212.90585 1762.8695 371.52658 237.76868 1840.8488 308.41547 7562.238 384.28528 476.3185	-0.8402877 0.82716334 -0.86992323 1.0751288 -0.97584176 -1.0661007 0.91572714 1.6772091 1.9096949 -0.75181293 -0.81414247	3.199781903 down 3.4154243 up 3.40812881 down 4.708046 up 3.527984591 down 4.216898716 down 3.7260134 up 11.196581 up 18.525242 up 3.339334897 down 3.240332339 down	4.38E-04 RP6-213H19.1 3.02E-04 ISLR 5.01E-04 TMEM217 3.20E-04 TMEM180 8.60E-04 SLC35F2 5.77E-04 ADAMTSL1 4.45E-05 TCEA3 1.96E-04 NUAK1 2.79E-04 SYNPO2L 8.78E-04 C4orf7 0.01111404 HIST1H2AL 5.28E-05 SCRN1
147 148 149 150 151 152 153	A_23_P334870 A_23_P337729 A_23_P339098 A_23_P342138 A_23_P34375 A_23_P348257 A_23_P355517 A_23_P362694 A_23_P363174 A_23_P366366 A_23_P368484	26285.438 47.650093 533.3328 276.04102 962.18665 752.76465 374.03552 20.184444 321.74622 937.7749 1163.7174	-1.071758 0.8376858 -0.94490147 0.8990567 -1.1599997 0.84300256 1.0100815 -0.9819057 -1.8077773 -2.3017256 0.9877479 0.88199925	11074.92 215.32068 212.90585 1762.8695 371.52658 237.76868 1840.8488 308.41547 7562.238 384.28528 476.3185	-0.8402877 0.82716334 -0.86992323 1.0751288 -0.97584176 -1.0661007 0.91572714 1.6772091 1.9096949 -0.75181293 -0.81414247	3.199781903 down 3.4154243 up 3.40812881 down 4.708046 up 3.527984591 down 4.216898716 down 3.7260134 up 11.196581 up 18.525242 up 3.339334897 down 3.240332339 down 4.085431604 down	4.38E-04 RP6-213H19.1 3.02E-04 ISLR 5.01E-04 TMEM217 3.20E-04 TMEM180 8.60E-04 SLC35F2 5.77E-04 ADAMTSL1 4.45E-05 TCEA3 1.96E-04 NUAK1 2.79E-04 SYNPO2L 8.78E-04 C4orf7 0.01111404 HIST1H2AL 5.28E-05 SCRN1 1.94E-04 C17orf76
147 148 149 150 151 152 153 154 155	A_23_P334870 A_23_P337729 A_23_P339098 A_23_P342138 A_23_P34375 A_23_P348257 A_23_P355517 A_23_P362694 A_23_P363174 A_23_P366366 A_23_P368484 A_23_P369994	26285.438 47.650093 533.3328 276.04102 962.18665 752.76465 374.03552 20.184444 321.74622 937.7749 1163.7174 253.70486 311.9769	-1.071758 0.8376858 -0.94490147 0.8990567 -1.1599997 0.84300256 1.0100815 -0.9819057 -1.8077773 -2.3017256 0.9877479 0.88199925 0.9793855 1.0644228	11074.92 215.32068 212.90585 1762.8695 371.52658 237.76868 1840.8488 308.41547 7562.238 384.28528 476.3185	-0.8402877 0.82716334 -0.86992323 1.0751288 -0.97584176 -1.0661007 0.91572714 1.6772091 1.9096949 -0.75181293 -0.81414247	3.199781903 down 3.4154243 up 3.40812881 down 4.708046 up 3.527984591 down 4.216898716 down 3.7260134 up 11.196581 up 18.525242 up 3.339334897 down 3.240332339 down 4.085431604 down 4.01201132 down	4.38E-04 RP6-213H19.1 3.02E-04 ISLR 5.01E-04 TMEM217 3.20E-04 TMEM180 8.60E-04 SLC35F2 5.77E-04 ADAMTSL1 4.45E-05 TCEA3 1.96E-04 NUAK1 2.79E-04 SYNPO2L 8.78E-04 C4orf7 0.01111404 HIST1H2AL 5.28E-05 SCRN1 1.94E-04 C17orf76 0.00261613 DCLK1
147 148 149 150 151 152 153 154 155 156	A_23_P334870 A_23_P337729 A_23_P339098 A_23_P342138 A_23_P34375 A_23_P348257 A_23_P355517 A_23_P362694 A_23_P363174 A_23_P366366 A_23_P368484 A_23_P369994 A_23_P373031	26285.438 47.650093 533.3328 276.04102 962.18665 374.03552 20.184444 321.74622 937.7749 1163.7174 253.70486 311.9769 1252.4993	-1.071758 0.8376858 -0.94490147 0.8990567 -1.1599997 0.84300256 1.0100815 -0.9819057 -1.8077773 -2.3017256 0.9877479 0.88199925 0.9793855 1.0644228 0.8578911	11074.92 215.32068 212.90585 1762.8695 371.52658 237.76868 1840.8488 308.41547 7562.238 384.28528 476.3185 83.00975 101.56105 508.70145	-0.8402877 0.82716334 -0.86992323 1.0751288 -0.97584176 -1.0661007 0.91572714 1.6772091 1.9096949 -0.75181293 -0.81414247 -1.0511031 -0.9399028 -0.8941355	3.199781903 down 3.4154243 up 3.40812881 down 4.708046 up 3.527984591 down 4.216898716 down 3.7260134 up 11.196581 up 18.525242 up 3.339334897 down 3.240332339 down 4.085431604 down 4.01201132 down 3.368313834 down	4.38E-04 RP6-213H19.1 3.02E-04 ISLR 5.01E-04 TMEM217 3.20E-04 TMEM180 8.60E-04 SLC35F2 5.77E-04 ADAMTSL1 4.45E-05 TCEA3 1.96E-04 NUAK1 2.79E-04 SYNPO2L 8.78E-04 C4orf7 0.01111404 HIST1H2AL 5.28E-05 SCRN1 1.94E-04 C17orf76 0.00261613 DCLK1 0.00296383 CACNA1C
147 148 149 150 151 152 153 154 155 156 157	A_23_P334870 A_23_P337729 A_23_P339098 A_23_P342138 A_23_P34375 A_23_P348257 A_23_P355517 A_23_P362694 A_23_P363174 A_23_P366366 A_23_P368484 A_23_P368994 A_23_P373031 A_23_P374844	26285.438 47.650093 533.3328 276.04102 962.18665 374.03552 20.184444 321.74622 937.7749 1163.7174 253.70486 311.9769 1252.4993 724.84717	-1.071758 0.8376858 -0.94490147 0.8990567 -1.1599997 0.84300256 1.0100815 -0.9819057 -1.8077773 -2.3017256 0.9877479 0.88199925 0.9793855 1.0644228 0.8578911 1.2530165	11074.92 215.32068 212.90585 1762.8695 371.52658 237.76868 1840.8488 308.41547 7562.238 384.28528 476.3185 83.00975 101.56105 508.70145 196.8602	-0.8402877 0.82716334 -0.86992323 1.0751288 -0.97584176 -1.0661007 0.91572714 1.6772091 1.9096949 -0.75181293 -0.81414247 -1.0511031 -0.9399028 -0.8941355 -1.0792607	3.199781903 down 3.4154243 up 3.40812881 down 4.708046 up 3.527984591 down 4.216898716 down 3.7260134 up 11.196581 up 18.525242 up 3.339334897 down 3.240332339 down 4.085431604 down 4.01201132 down 3.368313834 down 5.035996548 down	4.38E-04 RP6-213H19.1 3.02E-04 ISLR 5.01E-04 TMEM217 3.20E-04 TMEM180 8.60E-04 SLC35F2 5.77E-04 ADAMTSL1 4.45E-05 TCEA3 1.96E-04 NUAK1 2.79E-04 SYNPO2L 8.78E-04 C4orf7 0.01111404 HIST1H2AL 5.28E-05 SCRN1 1.94E-04 C17orf76 0.00261613 DCLK1 0.00296383 CACNA1C 5.80E-04 GAL
147 148 149 150 151 152 153 154 155 156 157 158	A_23_P334870 A_23_P337729 A_23_P339098 A_23_P342138 A_23_P34375 A_23_P348257 A_23_P355517 A_23_P362694 A_23_P363174 A_23_P366366 A_23_P368484 A_23_P369994 A_23_P373031 A_23_P374844 A_23_P388819	26285.438 47.650093 533.3328 276.04102 962.18665 752.76465 374.03552 20.184444 321.74622 937.7749 1163.7174 253.70486 311.9769 1252.4993 724.84717 31.412521	-1.071758 0.8376858 -0.94490147 0.8990567 -1.1599997 0.84300256 1.0100815 -0.9819057 -1.8077773 -2.3017256 0.9877479 0.88199925 0.9793855 1.0644228 0.8578911 1.2530165 -0.93202364	11074.92 215.32068 212.90585 1762.8695 371.52658 237.76868 1840.8488 308.41547 7562.238 384.28528 476.3185 83.00975 101.56105 508.70145 196.8602 130.01765	-0.8402877 0.82716334 -0.86992323 1.0751288 -0.97584176 -1.0661007 0.91572714 1.6772091 1.9096949 -0.75181293 -0.81414247 -1.0511031 -0.9399028 -0.8941355 -1.0792607 0.66661644	3.199781903 down 3.4154243 up 3.40812881 down 4.708046 up 3.527984591 down 4.216898716 down 3.7260134 up 11.196581 up 18.525242 up 3.339334897 down 3.240332339 down 4.085431604 down 4.01201132 down 3.368313834 down 5.035996548 down 3.028577 up	4.38E-04 RP6-213H19.1 3.02E-04 ISLR 5.01E-04 TMEM217 3.20E-04 TMEM180 8.60E-04 SLC35F2 5.77E-04 ADAMTSL1 4.45E-05 TCEA3 1.96E-04 NUAK1 2.79E-04 SYNPO2L 8.78E-04 C4orf7 0.01111404 HIST1H2AL 5.28E-05 SCRN1 1.94E-04 C17orf76 0.00261613 DCLK1 0.00296383 CACNA1C 5.80E-04 GAL 0.00619332 TBX3
147 148 149 150 151 152 153 154 155 156 157 158 159	A_23_P334870 A_23_P337729 A_23_P339098 A_23_P342138 A_23_P348257 A_23_P348257 A_23_P355517 A_23_P366364 A_23_P366366 A_23_P368484 A_23_P369994 A_23_P373031 A_23_P373031 A_23_P383819 A_23_P38567	26285.438 47.650093 533.3328 276.04102 962.18665 752.76465 374.03552 20.184444 321.74622 937.7749 1163.7174 253.70486 311.9769 1252.4993 724.84717 31.412521 56.56805	-1.071758 0.8376858 -0.94490147 0.8990567 -1.159997 0.84300256 1.0100815 -0.9819057 -1.8077773 -2.3017256 0.9877479 0.88199925 0.9793855 1.0644228 0.8578911 1.2530165 -0.93202364 -2.2602687	11074.92 215.32068 212.90585 1762.8695 371.52658 237.76868 1840.8488 308.41547 7562.238 384.28528 476.3185 83.00975 101.56105 508.70145 196.8602 130.01765 1633.1627	-0.8402877 0.82716334 -0.86992323 1.0751288 -0.97584176 -1.0661007 0.91572714 1.6772091 1.9096949 -0.75181293 -0.81414247 -1.0511031 -0.9399028 -0.8941355 -1.0792607 0.66661644 2.1454592	3.199781903 down 3.4154243 up 3.40812881 down 4.708046 up 3.527984591 down 4.216898716 down 3.7260134 up 11.196581 up 18.525242 up 3.339334897 down 3.240332339 down 4.085431604 down 4.01201132 down 3.368313834 down 5.035996548 down 3.028577 up 21.196114 up	4.38E-04 RP6-213H19.1 3.02E-04 ISLR 5.01E-04 TMEM217 3.20E-04 TMEM180 8.60E-04 SLC35F2 5.77E-04 ADAMTSL1 4.45E-05 TCEA3 1.96E-04 NUAK1 2.79E-04 SYNPO2L 8.78E-04 C4orf7 0.01111404 HIST1H2AL 5.28E-05 SCRN1 1.94E-04 C17orf76 0.00261613 DCLK1 0.00296383 CACNA1C 5.80E-04 GAL 0.00619332 TBX3 3.19E-04 CYTSB
147 148 149 150 151 152 153 154 155 156 157 158 159 160	A_23_P334870 A_23_P337729 A_23_P339098 A_23_P342138 A_23_P348257 A_23_P348257 A_23_P355517 A_23_P366364 A_23_P366366 A_23_P368484 A_23_P36994 A_23_P373031 A_23_P374844 A_23_P383819 A_23_P388567 A_23_P38732	26285.438 47.650093 533.3328 276.04102 962.18665 752.76465 374.03552 20.184444 321.74622 937.7749 1163.7174 253.70486 311.9769 1252.4993 724.84717 31.412521	-1.071758 0.8376858 -0.94490147 0.8990567 -1.1599997 0.84300256 1.0100815 -0.9819057 -1.8077773 -2.3017256 0.9877479 0.88199925 0.9793855 1.0644228 0.8578911 1.2530165 -0.93202364	11074.92 215.32068 212.90585 1762.8695 371.52658 237.76868 1840.8488 308.41547 7562.238 384.28528 476.3185 83.00975 101.56105 508.70145 196.8602 130.01765	-0.8402877 0.82716334 -0.86992323 1.0751288 -0.97584176 -1.0661007 0.91572714 1.6772091 1.9096949 -0.75181293 -0.81414247 -1.0511031 -0.9399028 -0.8941355 -1.0792607 0.66661644	3.199781903 down 3.4154243 up 3.40812881 down 4.708046 up 3.527984591 down 4.216898716 down 3.7260134 up 11.196581 up 18.525242 up 3.339334897 down 3.240332339 down 4.085431604 down 4.01201132 down 3.368313834 down 5.035996548 down 3.028577 up 21.196114 up 5.6381917 up	4.38E-04 RP6-213H19.1 3.02E-04 ISLR 5.01E-04 TMEM217 3.20E-04 TMEM180 8.60E-04 SLC35F2 5.77E-04 ADAMTSL1 4.45E-05 TCEA3 1.96E-04 NUAK1 2.79E-04 SYNPO2L 8.78E-04 C4orf7 0.01111404 HIST1H2AL 5.28E-05 SCRN1 1.94E-04 C17orf76 0.00261613 DCLK1 0.00296383 CACNA1C 5.80E-04 GAL 0.00619332 TBX3
147 148 149 150 151 152 153 154 155 156 157 158 159 160	A_23_P334870 A_23_P337729 A_23_P339098 A_23_P342138 A_23_P348257 A_23_P348257 A_23_P355517 A_23_P366364 A_23_P366366 A_23_P368484 A_23_P369994 A_23_P373031 A_23_P373031 A_23_P383819 A_23_P38567	26285.438 47.650093 533.3328 276.04102 962.18665 752.76465 374.03552 20.184444 321.74622 937.7749 1163.7174 253.70486 311.9769 1252.4993 724.84717 31.412521 56.56805	-1.071758 0.8376858 -0.94490147 0.8990567 -1.159997 0.84300256 1.0100815 -0.9819057 -1.8077773 -2.3017256 0.9877479 0.88199925 0.9793855 1.0644228 0.8578911 1.2530165 -0.93202364 -2.2602687	11074.92 215.32068 212.90585 1762.8695 371.52658 237.76868 1840.8488 308.41547 7562.238 384.28528 476.3185 83.00975 101.56105 508.70145 196.8602 130.01765 1633.1627	-0.8402877 0.82716334 -0.86992323 1.0751288 -0.97584176 -1.0661007 0.91572714 1.6772091 1.9096949 -0.75181293 -0.81414247 -1.0511031 -0.9399028 -0.8941355 -1.0792607 0.66661644 2.1454592	3.199781903 down 3.4154243 up 3.40812881 down 4.708046 up 3.527984591 down 4.216898716 down 3.7260134 up 11.196581 up 18.525242 up 3.339334897 down 3.240332339 down 4.085431604 down 4.01201132 down 3.368313834 down 5.035996548 down 3.028577 up 21.196114 up	4.38E-04 RP6-213H19.1 3.02E-04 ISLR 5.01E-04 TMEM217 3.20E-04 TMEM180 8.60E-04 SLC35F2 5.77E-04 ADAMTSL1 4.45E-05 TCEA3 1.96E-04 NUAK1 2.79E-04 SYNPO2L 8.78E-04 C4orf7 0.01111404 HIST1H2AL 5.28E-05 SCRN1 1.94E-04 C17orf76 0.00261613 DCLK1 0.00296383 CACNA1C 5.80E-04 GAL 0.00619332 TBX3 3.19E-04 CYTSB
147 148 149 150 151 152 153 154 155 156 157 158 159 160 161	A_23_P334870 A_23_P337729 A_23_P339098 A_23_P342138 A_23_P348257 A_23_P348257 A_23_P355517 A_23_P366364 A_23_P366366 A_23_P368484 A_23_P36994 A_23_P373031 A_23_P374844 A_23_P383819 A_23_P388567 A_23_P38732	26285.438 47.650093 533.3328 276.04102 962.18665 752.76465 374.03552 20.184444 321.74622 937.7749 1163.7174 253.70486 311.9769 1252.4993 724.84717 31.412521 56.56805 224.4155	-1.071758 0.8376858 -0.94490147 0.8990567 -1.159997 0.84300256 1.0100815 -0.9819057 -1.8077773 -2.3017256 0.9877479 0.88199925 0.9793855 1.0644228 0.8578911 1.2530165 -0.93202364 -2.2602687 -1.2594692	11074.92 215.32068 212.90585 1762.8695 371.52658 237.76868 1840.8488 308.41547 7562.238 384.28528 476.3185 83.00975 101.56105 508.70145 196.8602 130.01765 1633.1627 1713.6415	-0.8402877 0.82716334 -0.86992323 1.0751288 -0.97584176 -1.0661007 0.91572714 1.6772091 1.9096949 -0.75181293 -0.81414247 -1.0511031 -0.9399028 -0.8941355 -1.0792607 0.66661644 2.1454592 1.2357633	3.199781903 down 3.4154243 up 3.40812881 down 4.708046 up 3.527984591 down 4.216898716 down 3.7260134 up 11.196581 up 18.525242 up 3.339334897 down 3.240332339 down 4.085431604 down 4.01201132 down 3.368313834 down 5.035996548 down 3.028577 up 21.196114 up 5.6381917 up	4.38E-04 RP6-213H19.1 3.02E-04 ISLR 5.01E-04 TMEM217 3.20E-04 TMEM180 8.60E-04 SLC35F2 5.77E-04 ADAMTSL1 4.45E-05 TCEA3 1.96E-04 NUAK1 2.79E-04 SYNPO2L 8.78E-04 C4orf7 0.01111404 HIST1H2AL 5.28E-05 SCRN1 1.94E-04 C17orf76 0.00261613 DCLK1 0.00296383 CACNA1C 5.80E-04 GAL 0.00619332 TBX3 3.19E-04 CYTSB 2.35E-05 CDH2
147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162	A_23_P334870 A_23_P337729 A_23_P337729 A_23_P339098 A_23_P342138 A_23_P34375 A_23_P348257 A_23_P355517 A_23_P366364 A_23_P366366 A_23_P368484 A_23_P369994 A_23_P373031 A_23_P374844 A_23_P383819 A_23_P38567 A_23_P38567 A_23_P38732 A_23_P388900	26285.438 47.650093 533.3328 276.04102 962.18665 752.76465 374.03552 201.74622 937.7749 1163.7174 253.70486 311.9769 1252.4993 724.84717 31.412521 56.56805 224.4155 74.10068	-1.071758 0.8376858 -0.94490147 0.8990567 -1.159997 0.84300256 1.0100815 -0.9819057 -1.8077773 -2.3017256 0.9877479 0.88199925 0.9793855 1.0644228 0.8578911 1.2530165 -0.93202364 -2.2602687 -1.2594692 -1.2865087	11074.92 215.32068 212.90585 1762.8695 371.52658 237.76868 1840.8488 308.41547 7562.238 384.28528 476.3185 83.00975 101.56105 508.70145 196.8602 130.01765 1633.1627 1713.6415 417.2423	-0.8402877 0.82716334 -0.86992323 1.0751288 -0.97584176 -1.0661007 0.91572714 1.6772091 1.9096949 -0.75181293 -0.81414247 -1.0511031 -0.9399028 -0.8941355 -1.0792607 0.66661644 2.1454592 1.2357633 0.8559623	3.199781903 down 3.4154243 up 3.40812881 down 4.708046 up 3.527984591 down 4.216898716 down 3.7260134 up 11.196581 up 18.525242 up 3.339334897 down 3.240332339 down 4.085431604 down 4.01201132 down 3.368313834 down 5.035996548 down 3.028577 up 21.196114 up 5.6381917 up 4.4151754 up	4.38E-04 RP6-213H19.1 3.02E-04 ISLR 5.01E-04 TMEM217 3.20E-04 TMEM180 8.60E-04 SLC35F2 5.77E-04 ADAMTSL1 4.45E-05 TCEA3 1.96E-04 NUAK1 2.79E-04 SYNPO2L 8.78E-04 C4orf7 0.01111404 HIST1H2AL 5.28E-05 SCRN1 1.94E-04 C17orf76 0.00261613 DCLK1 0.0026383 CACNA1C 5.80E-04 GAL 0.00619332 TBX3 3.19E-04 CYTSB 2.35E-05 CDH2 0.003131 SLC22A15
147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163	A_23_P334870 A_23_P337729 A_23_P339098 A_23_P342138 A_23_P34375 A_23_P345517 A_23_P355517 A_23_P36694 A_23_P363174 A_23_P366366 A_23_P368484 A_23_P369994 A_23_P373031 A_23_P374844 A_23_P388819 A_23_P38567 A_23_P388993 A_23_P388993 A_23_P388993 A_23_P389987	26285.438 47.650093 533.3328 276.04102 962.18665 752.76465 374.03552 20.184444 321.74622 937.7749 1163.7174 253.70486 311.9769 1252.4993 724.84717 31.412521 56.56805 224.4155 74.10068 306.32004 695.0881	-1.071758 0.8376858 -0.94490147 0.8990567 -1.1599997 0.84300256 1.0100815 -0.9819057 -1.8077773 -2.3017256 0.9877479 0.88199925 0.9793855 1.0644228 0.8578911 1.2530165 -0.93202364 -2.2602687 -1.2594692 -1.2865087 -0.9881495 0.87961364	11074.92 215.32068 212.90585 1762.8695 371.52658 237.76868 1840.8488 308.41547 7562.238 384.28528 476.3185 83.00975 101.56105 508.70145 196.8602 130.01765 1633.1627 1713.6415 417.2423 1338.2452 307.40247	-0.8402877 0.82716334 -0.86992323 1.0751288 -0.97584176 -1.0661007 0.91572714 1.6772091 1.9096949 -0.75181293 -0.81414247 -1.0511031 -0.9399028 -0.8941355 -1.0792607 0.66661644 2.1454592 1.2357633 0.8559623 0.751024 -0.73905396	3.199781903 down 3.4154243 up 3.40812881 down 4.708046 up 3.527984591 down 4.216898716 down 4.216898716 down 3.7260134 up 11.196581 up 18.525242 up 3.339334897 down 3.240332339 down 4.085431604 down 4.01201132 down 3.368313834 down 5.035996548 down 3.028577 up 21.196114 up 5.6381917 up 4.4151754 up 3.3384387 up 3.07091297 down	4.38E-04 RP6-213H19.1 3.02E-04 ISLR 5.01E-04 TMEM217 3.20E-04 TMEM180 8.60E-04 SLC35F2 5.77E-04 ADAMTSL1 4.45E-05 TCEA3 1.96E-04 NUAK1 2.79E-04 SYNPO2L 8.78E-04 C4orf7 0.01111404 HIST1H2AL 5.28E-05 SCRN1 1.94E-04 C17orf76 0.00261613 DCLK1 0.00296383 CACNA1C 5.80E-04 GAL 0.00619332 TBX3 3.19E-04 CYTSB 2.35E-05 CDH2 0.003131 SLC22A15 0.00198316 ZC3H12C 0.00173243 TLX2
147 148 149 150 151 152 153 154 155 156 157 158 160 161 162 163 164	A_23_P334870 A_23_P337729 A_23_P339098 A_23_P342138 A_23_P34375 A_23_P348257 A_23_P355517 A_23_P36694 A_23_P366366 A_23_P366366 A_23_P368484 A_23_P369994 A_23_P373031 A_23_P374844 A_23_P383819 A_23_P383819 A_23_P388993 A_23_P388993 A_23_P388993 A_23_P389987 A_23_P393034	26285.438 47.650093 533.3328 276.04102 962.18665 374.03552 20.184444 321.74622 937.7749 1163.7174 253.70486 311.9769 1252.4993 724.84717 31.412521 56.56805 74.10068 306.32004 695.0881 27.616285	-1.071758 0.8376858 -0.94490147 0.8990567 -1.1599997 0.84300256 1.0100815 -0.9819057 -1.8077773 -2.3017256 0.9877479 0.88199925 0.9793855 1.0644228 0.8578911 1.2530165 -0.93202364 -2.2602687 -1.2594692 -1.2865087 -0.9881495 0.87961364 -1.2131451	11074.92 215.32068 212.90585 1762.8695 371.52658 237.76868 1840.8488 308.41547 7562.238 384.28528 476.3185 83.00975 101.56105 508.70145 196.8602 130.01765 1633.1627 1713.6415 417.2423 1338.2452 307.40247 194.87183	-0.8402877 0.82716334 -0.86992323 1.0751288 -0.97584176 -1.0661007 0.91572714 1.6772091 1.9096949 -0.75181293 -0.81414247 -1.0511031 -0.9399028 -0.8941355 -1.0792607 0.66661644 2.1454592 1.2357633 0.8559623 0.751024 -0.73905396 1.1823374	3.199781903 down 3.4154243 up 3.40812881 down 4.708046 up 3.527984591 down 4.216898716 down 4.216898716 down 3.7260134 up 11.196581 up 18.525242 up 3.339334897 down 3.240332339 down 4.085431604 down 4.01201132 down 3.368313834 down 5.035996548 down 3.028577 up 21.196114 up 5.6381917 up 4.4151754 up 3.3384387 up 3.07091297 down 5.2615304 up	4.38E-04 RP6-213H19.1 3.02E-04 ISLR 5.01E-04 TMEM217 3.20E-04 TMEM180 8.60E-04 SLC35F2 5.77E-04 ADAMTSL1 4.45E-05 TCEA3 1.96E-04 NUAK1 2.79E-04 SYNPO2L 8.78E-04 C4orf7 0.01111404 HIST1H2AL 5.28E-05 SCRN1 1.94E-04 C17orf76 0.00261613 DCLK1 0.00296383 CACNA1C 5.80E-04 GAL 0.00619332 TBX3 3.19E-04 CYTSB 2.35E-05 CDH2 0.003131 SLC22A15 0.00198316 ZC3H12C 0.00173243 TLX2 3.20E-04 HAS3
147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165	A_23_P334870 A_23_P337729 A_23_P337729 A_23_P339098 A_23_P342138 A_23_P348257 A_23_P355517 A_23_P362694 A_23_P363174 A_23_P366366 A_23_P368484 A_23_P3689994 A_23_P373031 A_23_P373031 A_23_P374844 A_23_P388919 A_23_P388997 A_23_P388990 A_23_P3889903 A_23_P3889903 A_23_P3889987 A_23_P393034 A_23_P39465	26285.438 47.650093 533.3328 276.04102 962.18665 374.03552 20.184444 321.74622 937.7749 1163.7174 253.70486 311.9769 1252.4993 724.84717 31.412521 56.56805 224.4155 74.10068 306.32004 695.0881 27.616285 4565.2456	-1.071758 0.8376858 -0.94490147 0.8990567 -1.1599997 0.84300256 1.0100815 -0.9819057 -1.8077773 -2.3017256 0.9877479 0.88199925 0.9793855 1.0644228 0.8578911 1.2530165 -0.93202364 -2.2602687 -1.2594692 -1.2865087 -0.9881495 0.87961364 -1.2131451 1.823978	11074.92 215.32068 212.90585 1762.8695 371.52658 237.76868 1840.8488 308.41547 7562.238 384.28528 476.3185 83.00975 101.56105 508.70145 196.8602 130.01765 1633.1627 1713.6415 417.2423 1338.2452 307.40247 194.87183 521.2682	-0.8402877 0.82716334 -0.86992323 1.0751288 -0.97584176 -1.0661007 0.91572714 1.6772091 1.9096949 -0.75181293 -0.81414247 -1.0511031 -0.9399028 -0.8941355 -1.0792607 0.66661644 2.1454592 1.2357633 0.8559623 0.751024 -0.73905396 1.1823374 -1.7180061	3.199781903 down 3.4154243 up 3.40812881 down 4.708046 up 3.527984591 down 4.216898716 down 4.216898716 down 3.7260134 up 11.196581 up 18.525242 up 3.339334897 down 3.240332339 down 4.085431604 down 4.01201132 down 3.368313834 down 5.035996548 down 3.028577 up 21.196114 up 5.6381917 up 4.4151754 up 3.3384387 up 3.07091297 down 5.2615304 up 11.64778813 down	4.38E-04 RP6-213H19.1 3.02E-04 ISLR 5.01E-04 TMEM217 3.20E-04 TMEM180 8.60E-04 SLC35F2 5.77E-04 ADAMTSL1 4.45E-05 TCEA3 1.96E-04 NUAK1 2.79E-04 SYNPO2L 8.78E-04 C4orf7 0.01111404 HIST1H2AL 5.28E-05 SCRN1 1.94E-04 C17orf76 0.00261613 DCLK1 0.00296383 CACNA1C 5.80E-04 GAL 0.00619332 TBX3 3.19E-04 CYTSB 2.35E-05 CDH2 0.003131 SLC22A15 0.00198316 ZC3H12C 0.00173243 TLX2 3.20E-04 HAS3 6.94E-04 BST2
147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166	A_23_P334870 A_23_P337729 A_23_P337729 A_23_P339098 A_23_P342138 A_23_P348257 A_23_P365517 A_23_P362694 A_23_P363174 A_23_P366366 A_23_P368484 A_23_P369994 A_23_P373031 A_23_P374844 A_23_P388919 A_23_P388919 A_23_P388919 A_23_P388900 A_23_P388900 A_23_P388900 A_23_P388907 A_23_P389987 A_23_P389987 A_23_P399987 A_23_P399965 A_23_P3956	26285.438 47.650093 533.3328 276.04102 962.18665 752.76465 374.03552 20.184444 321.74622 937.7749 1163.7174 253.70486 311.9769 1252.4993 724.84717 31.412521 56.56805 224.4155 74.10068 306.32004 695.0881 27.616285 4565.2456 114.99059	-1.071758 0.8376858 -0.94490147 0.8990567 -1.1599997 0.84300256 1.0100815 -0.9819057 -1.8077773 -2.3017256 0.9877479 0.88199925 0.9793855 1.0644228 0.8578911 1.2530165 -0.93202364 -2.2602687 -1.2594692 -1.2865087 -0.9881495 0.8981495 0.8981495 0.8981495 -1.2131451 1.823978 -0.85543966	11074.92 215.32068 212.90585 1762.8695 371.52658 237.76868 1840.8488 308.41547 7562.238 384.28528 476.3185 83.00975 101.56105 508.70145 196.8602 130.01765 1633.1627 1713.6415 417.2423 1338.2452 307.40247 194.87183 521.2682 524.94495	-0.8402877 0.82716334 -0.86992323 1.0751288 -0.97584176 -1.0661007 0.91572714 1.6772091 1.9096949 -0.75181293 -0.81414247 -1.0511031 -0.9399028 -0.8941355 -1.0792607 0.66661644 2.1454592 1.2357633 0.8559632 0.751024 -0.73905396 1.1823374 -1.7180061 0.9065008	3.199781903 down 3.4154243 up 3.40812881 down 4.708046 up 3.527984591 down 4.216898716 down 4.216898716 down 3.7260134 up 11.196581 up 18.525242 up 3.339334897 down 3.240332339 down 4.085431604 down 4.01201132 down 3.088313834 down 5.035996548 down 3.028577 up 21.196114 up 5.6381917 up 4.4151754 up 3.3384387 up 3.07091297 down 5.2615304 up 11.64778813 down 3.39154 up	4.38E-04 RP6-213H19.1 3.02E-04 ISLR 5.01E-04 TMEM217 3.20E-04 TMEM180 8.60E-04 SLC35F2 5.77E-04 ADAMTSL1 4.45E-05 TCEA3 1.96E-04 NUAK1 2.79E-04 SYNPO2L 8.78E-04 C4orf7 0.01111404 HIST1H2AL 5.28E-05 SCRN1 1.94E-04 C17orf76 0.00261613 DCLK1 0.00296383 CACNA1C 5.80E-04 GAL 0.00619332 TBX3 3.19E-04 CYTSB 2.35E-05 CDH2 0.003131 SLC22A15 0.00198316 ZC3H12C 0.00173243 TLX2 3.20E-04 HAS3 6.94E-04 BST2 1.05E-04 C1QTNF1
147 148 149 150 151 152 153 154 155 156 157 158 160 161 162 163 164 165 166 167	A_23_P334870 A_23_P337729 A_23_P337729 A_23_P339098 A_23_P342138 A_23_P348257 A_23_P355517 A_23_P362694 A_23_P363174 A_23_P366366 A_23_P368484 A_23_P369994 A_23_P373031 A_23_P373031 A_23_P373031 A_23_P383819 A_23_P383819 A_23_P388993 A_23_P38993 A_23_P38993 A_23_P38993 A_23_P389956 A_23_P39955	26285.438 47.650093 533.3328 276.04102 962.18665 752.76465 374.03552 20.184444 321.74622 937.7749 1163.7174 253.70486 311.9769 1252.4993 724.84717 31.412521 56.56805 224.4155 74.10068 306.32004 695.0881 27.616285 4565.2456 114.99059 242.5652	-1.071758 0.8376858 -0.94490147 0.8990567 -1.159997 0.84300256 1.0100815 -0.9819057 -1.8077773 -2.3017256 0.9877479 0.88199925 0.9793855 1.0644228 0.8578911 1.2530165 -0.93202364 -2.2602687 -1.2594692 -1.2865087 -0.9881495 0.87961364 -1.2131451 1.823978 -0.85543966 -2.625468	11074.92 215.32068 212.90585 1762.8695 371.52658 237.76868 1840.8488 308.41547 7562.238 384.28528 476.3185 83.00975 101.56105 508.70145 196.8602 130.01765 1633.1627 1713.6415 417.2423 1338.2452 307.40247 194.87183 521.2682 524.94495 10822.214	-0.8402877 0.82716334 -0.86992323 1.0751288 -0.97584176 -1.0661007 0.91572714 1.6772091 1.9096949 -0.75181293 -0.81414247 -1.0511031 -0.9399028 -0.8941355 -1.0792607 0.66661644 2.1454592 1.2357633 0.8559623 0.751024 -0.73905396 1.1823374 -1.7180061 0.9065008 2.4143906	3.199781903 down 3.4154243 up 3.40812881 down 4.708046 up 3.527984591 down 4.216898716 down 3.7260134 up 11.196581 up 18.525242 up 3.339334897 down 3.240332339 down 4.085431604 down 4.01201132 down 3.088313834 down 5.035996548 down 3.028577 up 21.196114 up 5.6381917 up 4.4151754 up 3.3384387 down 5.2615304 up 11.64778813 down 3.39154 up 32.896423 up	4.38E-04 RP6-213H19.1 3.02E-04 ISLR 5.01E-04 TMEM217 3.20E-04 SLC35F2 5.77E-04 ADAMTSL1 4.45E-05 TCEA3 1.96E-04 NUAK1 2.79E-04 SYNPO2L 8.78E-04 C4orf7 0.01111404 HIST1H2AL 5.28E-05 SCRN1 1.94E-04 C17orf76 0.00261613 DCLK1 0.00296383 CACNA1C 5.80E-04 GAL 0.00619332 TBX3 3.19E-04 CYTSB 2.35E-05 CDH2 0.003131 SLC22A15 0.00198316 ZC3H12C 0.00173243 TLX2 3.20E-04 HAS3 6.94E-04 BST2 1.05E-04 C1QTNF1 0.00111306 ACTG2
147 148 149 150 151 152 153 154 155 156 157 158 160 161 162 163 164 165 166 167	A_23_P334870 A_23_P337729 A_23_P337729 A_23_P339098 A_23_P342138 A_23_P34875 A_23_P348257 A_23_P362694 A_23_P366366 A_23_P366366 A_23_P368484 A_23_P369994 A_23_P373031 A_23_P373031 A_23_P373031 A_23_P388997 A_23_P388997 A_23_P388997 A_23_P388997 A_23_P389956 A_23_P39956 A_23_P39956 A_23_P39955 A_23_P39955	26285.438 47.650093 533.3328 276.04102 962.18665 752.76465 374.03552 20.184444 321.74622 937.7749 1163.7174 253.70486 311.9769 1252.4993 724.84717 31.412521 56.56805 224.4155 74.10068 306.32004 695.0881 27.616285 4565.2456 114.99059 242.5652 27.99377	-1.071758 0.8376858 -0.94490147 0.8990567 -1.159997 0.84300256 1.0100815 -0.9819057 -1.8077773 -2.3017256 0.9877479 0.88199925 0.9793855 1.0644228 0.8578911 1.2530165 -0.93202364 -2.2602687 -1.2594692 -1.2865087 -0.9881495 0.87961364 -1.2131451 1.823978 -0.85543966 -2.625468 -1.6630749	11074.92 215.32068 212.90585 1762.8695 371.52658 237.76868 1840.8488 308.41547 7562.238 384.28528 476.3185 83.00975 101.56105 508.70145 196.8602 130.01765 1633.1627 1713.6415 417.2423 1338.2452 307.40247 194.87183 521.2682 524.94495 10822.214 219.85503	-0.8402877 0.82716334 -0.86992323 1.0751288 -0.97584176 -1.0661007 0.91572714 1.6772091 1.9096949 -0.75181293 -0.81414247 -1.0511031 -0.9399028 -0.8941355 -1.0792607 0.66661644 2.1454592 1.2357633 0.8559623 0.751024 -0.73905396 1.1823374 -1.7180061 0.9065008 2.4143906 0.9844191	3.199781903 down 3.4154243 up 3.40812881 down 4.708046 up 3.527984591 down 4.216898716 down 3.7260134 up 11.196581 up 18.525242 up 3.339334897 down 3.240332339 down 4.085431604 down 4.01201132 down 3.368313834 down 5.035996548 down 3.028577 up 21.196114 up 5.6381917 up 4.4151754 up 3.3384387 up 3.07091297 down 5.2615304 up 11.64778813 down 3.99154 up 32.896423 up 6.265779 up	4.38E-04 RP6-213H19.1 3.02E-04 ISLR 5.01E-04 TMEM217 3.20E-04 SLC35F2 5.77E-04 ADAMTSL1 4.45E-05 TCEA3 1.96E-04 NUAK1 2.79E-04 SYNPO2L 8.78E-04 C4orf7 0.01111404 HIST1H2AL 5.28E-05 SCRN1 1.94E-04 C17orf76 0.00261613 DCLK1 0.00296383 CACNA1C 5.80E-04 GAL 0.00619332 TBX3 3.19E-04 CYTSB 2.35E-05 CDH2 0.003131 SLC22A15 0.00198316 ZC3H12C 0.00173243 TLX2 3.20E-04 HAS3 6.94E-04 BST2 1.05E-04 C1QTNF1 0.00111306 ACTG2 0.01085598 ELMOD1
147 148 149 150 151 152 153 154 155 156 157 158 160 161 162 163 164 165 166 167 168	A_23_P334870 A_23_P337729 A_23_P337729 A_23_P339098 A_23_P342138 A_23_P348257 A_23_P355517 A_23_P362694 A_23_P363174 A_23_P366366 A_23_P368484 A_23_P369994 A_23_P373031 A_23_P373031 A_23_P373031 A_23_P383819 A_23_P383819 A_23_P388993 A_23_P38993 A_23_P38993 A_23_P38993 A_23_P389956 A_23_P39955	26285.438 47.650093 533.3328 276.04102 962.18665 752.76465 374.03552 20.184444 321.74622 937.7749 1163.7174 253.70486 311.9769 1252.4993 724.84717 31.412521 56.56805 224.4155 74.10068 306.32004 695.0881 27.616285 4565.2456 114.99059 242.5652	-1.071758 0.8376858 -0.94490147 0.8990567 -1.159997 0.84300256 1.0100815 -0.9819057 -1.8077773 -2.3017256 0.9877479 0.88199925 0.9793855 1.0644228 0.8578911 1.2530165 -0.93202364 -2.2602687 -1.2594692 -1.2865087 -0.9881495 0.87961364 -1.2131451 1.823978 -0.85543966 -2.625468	11074.92 215.32068 212.90585 1762.8695 371.52658 237.76868 1840.8488 308.41547 7562.238 384.28528 476.3185 83.00975 101.56105 508.70145 196.8602 130.01765 1633.1627 1713.6415 417.2423 1338.2452 307.40247 194.87183 521.2682 524.94495 10822.214	-0.8402877 0.82716334 -0.86992323 1.0751288 -0.97584176 -1.0661007 0.91572714 1.6772091 1.9096949 -0.75181293 -0.81414247 -1.0511031 -0.9399028 -0.8941355 -1.0792607 0.66661644 2.1454592 1.2357633 0.8559623 0.751024 -0.73905396 1.1823374 -1.7180061 0.9065008 2.4143906	3.199781903 down 3.4154243 up 3.40812881 down 4.708046 up 3.527984591 down 4.216898716 down 3.7260134 up 11.196581 up 18.525242 up 3.339334897 down 3.240332339 down 4.085431604 down 4.01201132 down 3.088313834 down 5.035996548 down 3.028577 up 21.196114 up 5.6381917 up 4.4151754 up 3.3384387 down 5.2615304 up 11.64778813 down 3.39154 up 32.896423 up	4.38E-04 RP6-213H19.1 3.02E-04 ISLR 5.01E-04 TMEM217 3.20E-04 SLC35F2 5.77E-04 ADAMTSL1 4.45E-05 TCEA3 1.96E-04 NUAK1 2.79E-04 SYNPO2L 8.78E-04 C4orf7 0.01111404 HIST1H2AL 5.28E-05 SCRN1 1.94E-04 C17orf76 0.00261613 DCLK1 0.00296383 CACNA1C 5.80E-04 GAL 0.00619332 TBX3 3.19E-04 CYTSB 2.35E-05 CDH2 0.003131 SLC22A15 0.00198316 ZC3H12C 0.00173243 TLX2 3.20E-04 HAS3 6.94E-04 BST2 1.05E-04 C1QTNF1 0.00111306 ACTG2

171 A_23_P41476	729.65125	1.0533943	230.9625	-1.0241063	4.220753691 down	5.53E-05 SHISA3
172 A_23_P415021	1007.37573	1.2315133	235.87747	-1.2731386	5.675124437 down	6.31E-05 METTL7A
173 A_23_P415652	1437.2201	0.80746984	640.0584	-0.78413653	3.013847423 down	1.22E-04 GALNT12
174 A_23_P416894	29.036797	-1.0530393	201.62564	1.2711788	5.0079436 up	0.00353966 PION
175 A_23_P417918	158.69615	1.3601499	29.028614	-1.5272528	7.399370595 down	6.77E-04 PENK
176 A_23_P41804	1416.0282	1.2776825	312.07056	-1.3033373	5.983625092 down	7.46E-05 NKD2
177 A_23_P421011	2519.3628	1.17803	676.56323	-1.1392746	4.984002101 down	7.29E-04 KAZALD1
178 A_23_P422212	710.84546	-1.2407486	5599.841	1.2934849	5.7926903 up	1.96E-04 SLC35F3
179 A_23_P42257	5595.5474	-1.4777968	54771.906	1.3710947	7.204466 up	0.00273485 IER3
180 A_23_P425681	183.7669	-1.5519348	2105.9546	1.5173705	8.393691 up	1.12E-04 CCK
181 A_23_P42868	964.97205	0.94902515	323.8612	-1.0428874	3.977639303 down	0.00113252 IGFBP1
182 A_23_P43164	1704.1075	1.2424128	404.52313	-1.1730003	5.334722353 down	0.00304356 SULF1
183 A_23_P43276	1829.1023	1.0124652	585.5454	-1.0362742	4.137442873 down	4.64E-04 GPR124
184 A_23_P433016	2465.725	1.1117802	731.48254	-1.0387778	4.439994583 down	1.83E-04 FBLN1
185 A_23_P44674	4237.535	1.4347336	721.603	-1.5322056	7.818756227 down	1.28E-04 CRIP1
186 A_23_P4551	566.491	1.2569113	142.14981	-1.1663895	5.363968315 down	4.93E-04 SETBP1
187 A_23_P45871	1010.6504	1.4550054	191.51978	-1.3083718	6.789837948 down	0.00136816 IFI44L
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188 A 23 P46936	160 15610	0.0040061	060 717	1.000100	4.024001	4.425.04.5050
	168.15613	-0.9942261	962.717	1.088109	4.234921 up	4.43E-04 EGR2
189 A_23_P47924	29.91783	-1.703411	310.4391	1.2613236	7.8068175 up	0.00235497 PTPRR
190 A_23_P4808	1244.7612	0.98986673	439.1443	-0.96008015	3.863603216 down	6.92E-04 PTGER1
191 A_23_P49009	521.4828	1.045299	166.86751	-1.0288414	4.210934821 down	1.90E-04 LPCAT4
192 A_23_P500381	325.38727	-1.0439136	1655.47	0.879539	3.7932978 up	3.36E-04 HTR7
193 A_23_P501007	29396.232	0.99758816	10574.471	-0.8597305	3.623335965 down	0.00269063 EFEMP1
194 A_23_P501634	129.15958	-0.90033305	578.2464	0.85985994	3.3874342 up	7.99E-04 BTN2A1
195 A_23_P502343	320.46384	1.221049	89.51007	-0.8864955	4.30957152 down	0.01490254 ADAM33
196 A_23_P50946	252.80756	0.8829229	102.92137	-0.8177191	3.250455706 down	0.00199811 RAMP1
197 A_23_P51126	226.16748	0.8796518	95.03728	-0.8088454	3.223207922 down	8.53E-04 IL1RL1
198 A_23_P51187	1101.6	1.0137019	311.15073	-1.2386663	4.764643297 down	6.96E-04 PRKCZ
199 A 23 P51376	72.195595	-1.3574828	565.36035	1.167428	5.755379 up	5.89E-04 NKAIN1
				0.82172894		
200 A_23_P52986	168.64986	-0.83160615	703.2213		3.1455996 up	7.63E-04 VWCE
201 A_23_P53137	758.9225	2.386888	40.09871	-2.2738447	25.29416673 down	5.64E-04 HBG1
202 A_23_P53588	133.72713	-1.0585907	808.8563	1.0945776	4.4480352 up	1.97E-04 WNT5B
203 A_23_P53663	323.27902	-1.246107	1458.8416	0.52273345	3.4077995 up	0.02738287 PAWR
204 A_23_P55749	614.85834	1.2164848	146.09149	-1.2532077	5.539257214 down	6.72E-04 COL5A3
				1.2002077	0.000207211 down	0.722 01 00207.0
205 A_23_P56559	4611.294	2.8495817	146.33392	-2.57646	42.99335194 down	1.38E-04 DHRS9
205 A_23_P56559 206 A_23_P57199	4611.294 36.015564	2.8495817 -1.0315521	146.33392 173.812	-2.57646 0.8474064	42.99335194 down 3.6780944 up	1.38E-04 DHRS9 0.00404693 GGTLC1
205 A_23_P56559 206 A_23_P57199 207 A_23_P57709	4611.294 36.015564 12339.703	2.8495817 -1.0315521 1.1109436	146.33392 173.812 3568.2483	-2.57646 0.8474064 -1.1049683	42.99335194 down 3.6780944 up 4.645751031 down	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2
205 A_23_P56559 206 A_23_P57199	4611.294 36.015564	2.8495817 -1.0315521	146.33392 173.812	-2.57646 0.8474064	42.99335194 down 3.6780944 up	1.38E-04 DHRS9 0.00404693 GGTLC1
205 A_23_P56559 206 A_23_P57199 207 A_23_P57709	4611.294 36.015564 12339.703	2.8495817 -1.0315521 1.1109436	146.33392 173.812 3568.2483	-2.57646 0.8474064 -1.1049683	42.99335194 down 3.6780944 up 4.645751031 down	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2
205 A_23_P56559 206 A_23_P57199 207 A_23_P57709 208 A_23_P58251 209 A_23_P59807	4611.294 36.015564 12339.703 1132.1229 208.32251	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277	146.33392 173.812 3568.2483 218.55078 23.771408	-2.57646 0.8474064 -1.1049683 -1.363029 -1.8271127	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2
205 A_23_P56559 206 A_23_P57199 207 A_23_P57709 208 A_23_P58251 209 A_23_P59807 210 A_23_P62081	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974	-2.57646 0.8474064 -1.1049683 -1.363029 -1.8271127 1.487256	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5
205 A_23_P56559 206 A_23_P57199 207 A_23_P57709 208 A_23_P58251 209 A_23_P59807 210 A_23_P62081 211 A_23_P62188	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843	-2.57646 0.8474064 -1.1049683 -1.363029 -1.8271127 1.487256 -0.78353	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2
205 A_23_P56559 206 A_23_P57199 207 A_23_P57709 208 A_23_P58251 209 A_23_P58807 210 A_23_P62081 211 A_23_P62188 212 A_23_P6263	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206 1241.45	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164 2.2871954	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843 70.55574	-2.57646 0.8474064 -1.1049683 -1.363029 -1.8271127 1.487256 -0.78353 -2.2712026	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down 23.56213264 down	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2 1.77E-04 MX2
205 A_23_P56559 206 A_23_P57199 207 A_23_P57709 208 A_23_P58251 209 A_23_P58807 210 A_23_P62081 211 A_23_P62188 212 A_23_P6263 213 A_23_P62752	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206 1241.45 116.541595	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164 2.2871954 -2.0532436	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843 70.55574 2387.9683	-2.57646 0.8474064 -1.1049683 -1.363029 -1.8271127 1.487256 -0.78353 -2.2712026 1.8882236	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down 23.56213264 down 15.363844 up	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2 1.77E-04 MX2 1.22E-04 NPPB
205 A_23_P56559 206 A_23_P57199 207 A_23_P57709 208 A_23_P58251 209 A_23_P59807 210 A_23_P62081 211 A_23_P62188 212 A_23_P6263 213 A_23_P62752 214 A_23_P62901	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206 1241.45 116.541595 650.27826	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164 2.2871954 -2.0532436 0.88243103	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843 70.55574 2387.9683 245.66025	-2.57646 0.8474064 -1.1049683 -1.363029 -1.8271127 1.487256 -0.78353 -2.2712026 1.8882236 -0.9398811	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down 23.56213264 down 15.363844 up 3.536475062 down	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2 1.77E-04 MX2 1.22E-04 NPPB 1.38E-04 BTG2
205 A.23.P56559 206 A.23.P57199 207 A.23.P57709 208 A.23.P58251 209 A.23.P59807 210 A.23.P62081 211 A.23.P62188 212 A.23.P6263 213 A.23.P62752 214 A.23.P62901 215 A.23.P63660	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206 1241.45 116.541595	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164 2.2871954 -2.0532436	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843 70.55574 2387.9683	-2.57646 0.8474064 -1.1049683 -1.363029 -1.8271127 1.487256 -0.78353 -2.2712026 1.8882236	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down 23.56213264 down 15.363844 up	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2 1.77E-04 MX2 1.22E-04 NPPB 1.38E-04 BTG2 0.00115053 C10orf58
205 A_23_P56559 206 A_23_P57199 207 A_23_P57709 208 A_23_P58251 209 A_23_P59807 210 A_23_P62081 211 A_23_P62188 212 A_23_P6263 213 A_23_P62752 214 A_23_P62901	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206 1241.45 116.541595 650.27826	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164 2.2871954 -2.0532436 0.88243103	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843 70.55574 2387.9683 245.66025	-2.57646 0.8474064 -1.1049683 -1.363029 -1.8271127 1.487256 -0.78353 -2.2712026 1.8882236 -0.9398811	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down 23.56213264 down 15.363844 up 3.536475062 down	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2 1.77E-04 MX2 1.22E-04 NPPB 1.38E-04 BTG2
205 A.23.P56559 206 A.23.P57199 207 A.23.P57709 208 A.23.P58251 209 A.23.P59807 210 A.23.P62081 211 A.23.P62188 212 A.23.P6263 213 A.23.P62752 214 A.23.P62901 215 A.23.P63660	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206 1241.45 116.541595 650.27826 142.13615	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164 2.2871954 -2.0532436 0.88243103 1.2916942	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843 70.55574 2387.9683 245.66025 38.395306	-2.57646 0.8474064 -1.1049683 -1.363029 -1.8271127 1.487256 -0.78353 -2.2712026 1.8882236 -0.9398811 -0.9987296	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down 23.56213264 down 15.363844 up 3.536475062 down 4.891998374 down	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2 1.77E-04 MX2 1.22E-04 NPPB 1.38E-04 BTG2 0.00115053 C10orf58
205 A.23.P56559 206 A.23.P57199 207 A.23.P57709 208 A.23.P58251 209 A.23.P58257 210 A.23.P62081 211 A.23.P62188 212 A.23.P6263 213 A.23.P6263 214 A.23.P62901 215 A.23.P62901 216 A.23.P64828 217 A.23.P64873	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206 1241.45 116.541595 650.27826 142.13615 747.4204 53453.06	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164 2.2871954 -2.0532436 0.88243103 1.2916942 2.054779 1.4303145	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843 70.55574 2387.9683 245.66025 38.395306 65.17817 12100.289	-2.57646 0.8474064 -1.1049683 -1.363029 -1.8271127 1.487256 -0.78353 -2.2712026 1.8882236 -0.9398811 -0.9987296 -1.9032532 -1.0806205	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down 23.56213264 down 15.363844 up 3.536475062 down 4.891998374 down 15.54126657 down 5.699893971 down	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2 1.77E-04 MX2 1.22E-04 NPPB 1.38E-04 BTG2 0.00115053 C10orf58 3.67E-04 OAS1 0.00269063 DCN
205 A.23.P56559 206 A.23.P57199 207 A.23.P57709 208 A.23.P58251 209 A.23.P58257 210 A.23.P62081 211 A.23.P62188 212 A.23.P6263 213 A.23.P62752 214 A.23.P62901 215 A.23.P63660 216 A.23.P64828 217 A.23.P64873 218 A.23.P65442	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206 1241.45 116.541595 650.27826 142.13615 747.4204 53453.06 2238.6575	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164 2.2871954 -2.0532436 0.88243103 1.2916942 2.054779 1.4303145 0.96018195	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843 70.55574 2387.9683 245.66025 38.395306 65.17817 12100.289 878.8285	-2.57646 0.8474064 -1.1049683 -1.363029 -1.8271127 1.487256 -0.78353 -2.2712026 1.8882236 -0.9398811 -0.9987296 -1.9032532 -1.0806205 -0.81788754	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down 23.56213264 down 15.363844 up 3.536475062 down 4.891998374 down 15.54126657 down 5.699893971 down 3.429669315 down	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2 1.77E-04 MX2 1.22E-04 NPPB 1.38E-04 BTG2 0.00115053 C10orf58 3.67E-04 OAS1 0.00269063 DCN 7.66E-04 IRF9
205 A.23.P56559 206 A.23.P57199 207 A.23.P57709 208 A.23.P58251 209 A.23.P58207 210 A.23.P62081 211 A.23.P62188 212 A.23.P6263 213 A.23.P62752 214 A.23.P62901 215 A.23.P63660 216 A.23.P64828 217 A.23.P64873 218 A.23.P65442 219 A.23.P66798	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206 1241.45 116.541595 650.27826 142.13615 747.4204 53453.06 2238.6575 440.75153	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164 2.2871954 -2.0532436 0.88243103 1.2916942 2.054779 1.4303145 0.96018195 -1.6853895	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843 70.55574 2387.9683 245.66025 38.395306 63.97817 12100.289 878.8285 6042.4756	-2.57646 0.8474064 -1.1049683 -1.363029 -1.8271127 1.487256 -0.78353 -2.2712026 1.8882236 -0.9398811 -0.9987296 -1.9032532 -1.0806205 -0.81788754 1.6420312	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down 23.56213264 down 15.363844 up 3.536475062 down 4.891998374 down 15.54126657 down 5.699893971 down 3.429669315 down 10.038144 up	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2 1.77E-04 MX2 1.22E-04 NPPB 1.38E-04 BTG2 0.00115053 C10orf58 3.67E-04 OAS1 0.00269063 DCN 7.66E-04 IRF9 5.01E-04 KRT19
205 A.23.P56559 206 A.23.P57199 207 A.23.P57709 208 A.23.P58251 209 A.23.P58207 210 A.23.P62081 211 A.23.P62188 212 A.23.P6263 213 A.23.P62901 215 A.23.P62901 216 A.23.P64828 217 A.23.P64828 217 A.23.P64873 218 A.23.P65442 219 A.23.P66798 220 A.23.P67661	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206 1241.45 116.541595 650.27826 142.13615 747.4204 53453.06 2238.6575 440.75153 2475.298	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164 2.2871954 -2.0532436 0.88243103 1.2916942 2.054779 1.4303145 0.96018195 -1.6853895 1.2112532	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843 70.55574 2387.9683 245.66025 38.395306 65.17817 12100.289 878.8285 6042.4756 619.7031	-2.57646 0.8474064 -1.1049683 -1.363029 -1.8271127 1.487256 -0.78353 -2.2712026 1.8882236 -0.9398811 -0.9987296 -1.9032532 -1.0806205 -0.81788754 1.6420312 -1.2151289	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down 23.56213264 down 15.363844 up 3.536475062 down 4.891998374 down 15.54126657 down 5.699893971 down 3.429669315 down 10.038144 up 5.375436909 down	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2 1.77E-04 MX2 1.22E-04 NPPB 1.38E-04 BTG2 0.00115053 C10orf58 3.67E-04 OAS1 0.00269063 DCN 7.66E-04 IRF9 5.01E-04 KRT19 5.83E-04 COX7A1
205 A.23.P56559 206 A.23.P57199 207 A.23.P57709 208 A.23.P58251 209 A.23.P58207 210 A.23.P62081 211 A.23.P62188 212 A.23.P6263 213 A.23.P62752 214 A.23.P62901 215 A.23.P63660 216 A.23.P64828 217 A.23.P64873 218 A.23.P65442 219 A.23.P66798	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206 1241.45 116.541595 650.27826 142.13615 747.4204 53453.06 2238.6575 440.75153	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164 2.2871954 -2.0532436 0.88243103 1.2916942 2.054779 1.4303145 0.96018195 -1.6853895	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843 70.55574 2387.9683 245.66025 38.395306 63.97817 12100.289 878.8285 6042.4756	-2.57646 0.8474064 -1.1049683 -1.363029 -1.8271127 1.487256 -0.78353 -2.2712026 1.8882236 -0.9398811 -0.9987296 -1.9032532 -1.0806205 -0.81788754 1.6420312	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down 23.56213264 down 15.363844 up 3.536475062 down 4.891998374 down 15.54126657 down 5.699893971 down 3.429669315 down 10.038144 up	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2 1.77E-04 MX2 1.22E-04 NPPB 1.38E-04 BTG2 0.00115053 C10orf58 3.67E-04 OAS1 0.00269063 DCN 7.66E-04 IRF9 5.01E-04 KRT19
205 A.23.P56559 206 A.23.P57199 207 A.23.P57709 208 A.23.P58251 209 A.23.P58251 210 A.23.P62081 211 A.23.P62081 212 A.23.P6263 213 A.23.P6263 214 A.23.P62752 214 A.23.P62901 215 A.23.P64828 217 A.23.P64828 217 A.23.P64873 218 A.23.P64873 218 A.23.P66798 220 A.23.P67661 221 A.23.P67847	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206 1241.45 116.541595 650.27826 142.13615 747.4204 53453.06 2238.6575 440.75153 2475.298 4078.7874	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164 2.2871954 -2.0532436 0.88243103 1.2916942 2.054779 1.4303145 0.96018195 -1.6853895 1.2112532 1.830925	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843 70.55574 2387.9683 245.66025 38.395306 65.17817 12100.289 878.8285 6042.4756 619.7031 473.74713	-2.57646 0.8474064 -1.1049683 -1.363029 -1.8271127 1.487256 -0.78353 -2.2712026 1.8882236 -0.9398811 -0.9987296 -1.9032532 -1.0806205 -0.81788754 1.6420312 -1.2151289 -1.7218807	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down 23.56213264 down 15.363844 up 3.536475062 down 4.891998374 down 15.54126657 down 5.699893971 down 3.429669315 down 10.038144 up 5.375436909 down 11.7354859 down	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2 1.77E-04 MX2 1.22E-04 NPPB 1.38E-04 BTG2 0.00115053 C10orf58 3.67E-04 OAS1 0.00269063 DCN 7.66E-04 IRF9 5.01E-04 KRT19 5.83E-04 COX7A1 5.53E-05 GALNT14
205 A.23_P56559 206 A.23_P57199 207 A.23_P57709 208 A.23_P58251 209 A.23_P59807 210 A.23_P62081 211 A.23_P6288 212 A.23_P6263 213 A.23_P6263 214 A.23_P62752 214 A.23_P62901 215 A.23_P63660 216 A.23_P64828 217 A.23_P64873 218 A.23_P64873 218 A.23_P66798 220 A.23_P67661 221 A.23_P67847 222 A.23_P68031	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206 1241.45 116.541595 650.27826 142.13615 747.4204 53453.06 2238.6575 440.75153 2475.298	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164 2.2871954 -2.0532436 0.88243103 1.2916942 2.054779 1.4303145 0.96018195 -1.6853895 1.2112532 1.830925	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843 70.55574 2387.9683 245.66025 38.395306 65.17817 12100.289 878.8285 6042.4756 619.7031 473.74713	-2.57646 0.8474064 -1.1049683 -1.363029 -1.8271127 1.487256 -0.78353 -2.2712026 1.8882236 -0.9398811 -0.9987296 -1.9032532 -1.0806205 -0.81788754 1.6420312 -1.2151289 -1.7218807	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down 23.56213264 down 15.363844 up 3.536475062 down 4.891998374 down 15.54126657 down 5.699893971 down 3.429669315 down 10.038144 up 5.375436909 down 11.7354859 down 8.751319 up	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2 1.77E-04 MX2 1.22E-04 NPPB 1.38E-04 BTG2 0.00115053 C10orf58 3.67E-04 OAS1 0.00269063 DCN 7.66E-04 IRF9 5.01E-04 KRT19 5.83E-04 COX7A1 5.53E-05 GALNT14
205 A.23.P56559 206 A.23.P57199 207 A.23.P57709 208 A.23.P58251 209 A.23.P58251 210 A.23.P62081 211 A.23.P62081 212 A.23.P6263 213 A.23.P6263 214 A.23.P62752 214 A.23.P62901 215 A.23.P64828 217 A.23.P64828 217 A.23.P64873 218 A.23.P64873 218 A.23.P66798 220 A.23.P67661 221 A.23.P67847	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206 1241.45 116.541595 650.27826 142.13615 747.4204 53453.06 2238.6575 440.75153 2475.298 4078.7874	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164 2.2871954 -2.0532436 0.88243103 1.2916942 2.054779 1.4303145 0.96018195 -1.6853895 1.2112532 1.830925	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843 70.55574 2387.9683 245.66025 38.395306 65.17817 12100.289 878.8285 6042.4756 619.7031 473.74713	-2.57646 0.8474064 -1.1049683 -1.363029 -1.8271127 1.487256 -0.78353 -2.2712026 1.8882236 -0.9398811 -0.9987296 -1.9032532 -1.0806205 -0.81788754 1.6420312 -1.2151289 -1.7218807	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down 23.56213264 down 15.363844 up 3.536475062 down 4.891998374 down 15.54126657 down 5.699893971 down 3.429669315 down 10.038144 up 5.375436909 down 11.7354859 down	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2 1.77E-04 MX2 1.22E-04 NPPB 1.38E-04 BTG2 0.00115053 C10orf58 3.67E-04 OAS1 0.00269063 DCN 7.66E-04 IRF9 5.01E-04 KRT19 5.83E-04 COX7A1 5.53E-05 GALNT14
205 A.23_P56559 206 A.23_P57199 207 A.23_P57709 208 A.23_P58251 209 A.23_P59807 210 A.23_P62081 211 A.23_P6288 212 A.23_P6263 213 A.23_P6263 214 A.23_P62752 214 A.23_P62901 215 A.23_P63660 216 A.23_P64828 217 A.23_P64873 218 A.23_P64873 218 A.23_P66798 220 A.23_P67661 221 A.23_P67847 222 A.23_P68031	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206 1241.45 116.541595 650.27826 142.13615 747.4204 53453.06 2238.6575 440.75153 2475.298 4078.7874	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164 2.2871954 -2.0532436 0.88243103 1.2916942 2.054779 1.4303145 0.96018195 -1.6853895 1.2112532 1.830925	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843 70.55574 2387.9683 245.66025 38.395306 65.17817 12100.289 878.8285 6042.4756 619.7031 473.74713	-2.57646 0.8474064 -1.1049683 -1.363029 -1.8271127 1.487256 -0.78353 -2.2712026 1.8882236 -0.9398811 -0.9987296 -1.9032532 -1.0806205 -0.81788754 1.6420312 -1.2151289 -1.7218807 1.5518287 -2.3641539	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down 23.56213264 down 15.363844 up 3.536475062 down 4.891998374 down 15.54126657 down 5.699893971 down 3.429669315 down 10.038144 up 5.375436909 down 11.7354859 down 8.751319 up	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2 1.77E-04 MX2 1.22E-04 NPPB 1.38E-04 BTG2 0.00115053 C10orf58 3.67E-04 OAS1 0.00269063 DCN 7.66E-04 IRF9 5.01E-04 KRT19 5.83E-04 COX7A1 5.53E-05 GALNT14
205 A.23_P56559 206 A.23_P57199 207 A.23_P57709 208 A.23_P58251 209 A.23_P58251 210 A.23_P62081 211 A.23_P62188 212 A.23_P6263 213 A.23_P62752 214 A.23_P62752 214 A.23_P63660 216 A.23_P64828 217 A.23_P64873 218 A.23_P64873 218 A.23_P64873 218 A.23_P66798 220 A.23_P67661 221 A.23_P67847 222 A.23_P68031 223 A.23_P69326 224 A.23_P69383	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206 1241.45 116.541595 650.27826 142.13615 747.4204 53453.06 2238.6575 440.75153 2475.298 4078.7874 17.244715 2651.9617 576.24316	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164 2.2871954 -2.0532436 0.88243103 1.2916942 2.054779 1.4303145 0.96018195 -1.6853895 1.2112532 1.830925 -1.5776716 2.3036098 1.1249332	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843 70.55574 2387.9683 245.66025 38.395306 65.17817 12100.289 878.8285 6042.4756 619.7031 473.74713 199.37465 139.81415 186.93002	-2.57646 0.8474064 -1.1049683 -1.363029 -1.8271127 1.487256 -0.78353 -2.2712026 1.8882236 -0.9398811 -0.9987296 -1.9032532 -1.0806205 -0.81788754 1.6420312 -1.2151289 -1.7218807 1.5518287 -2.3641539 -0.88381386	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down 23.56213264 down 15.363844 up 3.536475062 down 4.891998374 down 15.54126657 down 5.699893971 down 3.429669315 down 10.038144 up 5.375436909 down 11.7354859 down 8.751319 up 25.41773734 down 4.024325761 down	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2 1.77E-04 MX2 1.22E-04 NPPB 1.38E-04 BTG2 0.00115053 C10orf58 3.67E-04 OAS1 0.00269063 DCN 7.66E-04 IRF9 5.01E-04 KRT19 5.83E-04 COX7A1 5.53E-05 GALNT14 5.42E-05 STAT4 7.93E-06 CADPS 0.00149673 PARP9
205 A.23.P56559 206 A.23.P57199 207 A.23.P57709 208 A.23.P58251 209 A.23.P58251 210 A.23.P62081 211 A.23.P62188 212 A.23.P6263 213 A.23.P62752 214 A.23.P62901 215 A.23.P64828 217 A.23.P64873 218 A.23.P64873 218 A.23.P64873 218 A.23.P65442 219 A.23.P66798 220 A.23.P67661 221 A.23.P67847 222 A.23.P68031 223 A.23.P69326 224 A.23.P69383 225 A.23.P699497	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206 1241.45 116.541595 650.27826 142.13615 747.4204 53453.06 2238.6575 440.75153 2475.298 4078.7874 17.244715 2651.9617 576.24316 2992.2236	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164 2.2871954 -2.0532436 0.88243103 1.2916942 2.054779 1.4303145 0.96018195 -1.6853895 1.2112532 1.830925 -1.5776716 2.3036098 1.1249332 2.2170186	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843 70.55574 2387.9683 245.66025 38.395306 65.17817 12100.289 878.8285 6042.4756 619.7031 473.74713 199.37465 139.81415 186.93002 191.7943	-2.57646 0.8474064 -1.1049683 -1.363029 -1.8271127 1.487256 -0.78353 -2.2712026 1.8882236 -0.9398811 -0.9987296 -1.9032532 -1.0806205 -0.81788754 1.6420312 -1.2151289 -1.7218807 1.5518287 -2.3641539 -0.88381386 -2.1609826	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down 23.56213264 down 15.363844 up 3.536475062 down 4.891998374 down 15.54126657 down 5.699893971 down 3.429669315 down 10.038144 up 5.375436909 down 11.7354859 down 8.751319 up 25.41773734 down 4.024325761 down 20.792643 down	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2 1.77E-04 MX2 1.22E-04 NPPB 1.38E-04 BTG2 0.00115053 C10orf58 3.67E-04 OAS1 0.00269063 DCN 7.66E-04 IRF9 5.01E-04 KRT19 5.83E-04 COX7A1 5.53E-05 GALNT14 5.42E-05 STAT4 7.93E-06 CADPS 0.00149673 PARP9 3.02E-05 CLEC3B
205 A.23.P56559 206 A.23.P57199 207 A.23.P57709 208 A.23.P58251 209 A.23.P58251 210 A.23.P62081 211 A.23.P62081 212 A.23.P6263 213 A.23.P62901 215 A.23.P62901 216 A.23.P64828 217 A.23.P64828 217 A.23.P64828 217 A.23.P64828 217 A.23.P66798 220 A.23.P67661 221 A.23.P67847 222 A.23.P68031 223 A.23.P69383 225 A.23.P69497 226 A.23.P69497 226 A.23.P70818	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206 1241.45 116.541595 650.27826 142.13615 747.4204 53453.06 2238.6575 440.75153 2475.298 4078.7874 17.244715 2651.9617 576.24316 2992.2236 656.4259	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164 2.2871954 -2.0532436 0.88243103 1.2916942 2.054779 1.4303145 0.96018195 -1.6853895 1.2112532 1.830925 -1.5776716 2.3036098 1.1249332 2.2170186 1.6281693	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843 70.55574 2387.9683 245.66025 38.395306 65.17817 12100.289 878.8285 6042.4756 619.7031 473.74713 199.37465 139.81415 186.93002 191.7943 95.51476	-2.57646 0.8474064 -1.1049683 -1.363029 -1.8271127 1.487256 -0.78353 -2.2712026 1.8882236 -0.9398811 -0.9987296 -1.9032532 -1.0806205 -0.81788754 1.6420312 -1.2151289 -1.7218807 1.5518287 -2.3641539 -0.88381386 -2.1609826 -1.5975777	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down 23.56213264 down 15.363844 up 3.536475062 down 4.891998374 down 15.54126657 down 5.699893971 down 3.429669315 down 10.038144 up 5.375436909 down 11.7354859 down 8.751319 up 25.41773734 down 4.024325761 down 20.792643 down 9.355061149 down	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2 1.77E-04 MX2 1.22E-04 NPPB 1.38E-04 BTG2 0.00115053 C10orf58 3.67E-04 OAS1 0.00269063 DCN 7.66E-04 IRF9 5.01E-04 KRT19 5.83E-04 COX7A1 5.53E-05 GALNT14 5.42E-05 STAT4 7.93E-06 CADPS 0.00149673 PARP9 3.02E-05 CLEC3B 3.02E-05 SMO
205 A.23_P56559 206 A.23_P57199 207 A.23_P57709 208 A.23_P58251 209 A.23_P58251 210 A.23_P62081 211 A.23_P62188 212 A.23_P6263 213 A.23_P62752 214 A.23_P62901 215 A.23_P63660 216 A.23_P64828 217 A.23_P64873 218 A.23_P64873 219 A.23_P67661 221 A.23_P67661 221 A.23_P67847 222 A.23_P68031 223 A.23_P69326 224 A.23_P69383 225 A.23_P69497 226 A.23_P70818 227 A.23_P71037	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206 1241.45 116.541595 650.27826 142.13615 747.4204 53453.06 2238.6575 440.75153 2475.298 4078.7874 17.244715 2651.9617 576.24316 2992.2236 656.4259 1918.3821	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164 2.2871954 -2.0532436 0.88243103 1.2916942 2.054779 1.4303145 0.96018195 -1.6853895 1.2112532 1.830925 -1.5776716 2.3036098 1.1249332 2.2170186 1.6281693 -1.2241836	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843 70.55574 2387.9683 245.66025 38.395306 65.17817 12100.289 878.8285 6042.4756 619.7031 473.74713 199.37465 139.81415 139.81415 139.81415 146.93002 191.7943 95.51476 14787.92	-2.57646 0.8474064 -1.1049638 -1.363029 -1.8271127 1.487256 -0.78353 -2.2712026 1.8882236 -0.9398811 -0.9987296 -1.9032532 -1.0806205 -0.81788754 1.6420312 -1.2151289 -1.7218807 1.5518287 -2.3641539 -0.88381386 -2.1609826 -1.5975777 1.2910621	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down 23.56213264 down 15.363844 up 3.536475062 down 4.891998374 down 15.54126657 down 5.699893971 down 3.429669315 down 10.038144 up 5.375436909 down 11.7354859 down 8.751319 up 25.41773734 down 4.024325761 down 20.792643 down 9.355061149 down 5.71695 up	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2 1.77E-04 MX2 1.22E-04 NPPB 1.38E-04 BTG2 0.00115053 C10orf58 3.67E-04 OAS1 0.00269063 DCN 7.66E-04 IRF9 5.01E-04 KRT19 5.83E-04 COX7A1 5.53E-05 GALNT14 5.42E-05 STAT4 7.93E-06 CADPS 0.00149673 PARP9 3.02E-05 CLEC3B 3.02E-05 SMO 1.74E-04 IL6
205 A.23.P56559 206 A.23.P57199 207 A.23.P57709 208 A.23.P58251 209 A.23.P58251 210 A.23.P62081 211 A.23.P62081 212 A.23.P62081 213 A.23.P62901 215 A.23.P63660 216 A.23.P63680 217 A.23.P63680 218 A.23.P64828 217 A.23.P64873 218 A.23.P64873 218 A.23.P67661 221 A.23.P67661 221 A.23.P68031 222 A.23.P68031 223 A.23.P69326 224 A.23.P69383 225 A.23.P69383 225 A.23.P69883 226 A.23.P70818 227 A.23.P71037 228 A.23.P71037 228 A.23.P7144	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206 1241.45 116.541595 650.27826 142.13615 747.4204 53453.06 2238.6575 440.75153 2475.298 4078.7874 17.244715 2651.9617 576.24316 2992.2236 656.4259 1918.3821 19972.22	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164 2.2871954 -2.0532436 0.88243103 1.2916942 2.054779 1.4303145 0.96018195 -1.6853895 1.2112532 1.830925 -1.5776716 2.3036098 1.1249332 2.2170186 1.6281693 -1.2241836 -1.0932806	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843 70.55574 2387.9683 245.66025 38.395306 65.17817 12100.289 878.8285 6042.4756 619.7031 473.74713 199.37465 139.81415 186.93002 191.7943 95.51476 14787.92 118170.625	-2.57646 0.8474064 -1.1049633 -1.363029 -1.8271127 1.487256 -0.78353 -2.2712026 1.8882236 -0.9398811 -0.9987296 -1.9032532 -1.0806205 -0.81788754 1.6420312 -1.2151289 -1.7218807 1.5518287 -2.3641539 -0.88381386 -2.1609826 -1.5975777 1.2910621 1.0953925	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down 23.56213264 down 15.363844 up 3.536475062 down 4.891998374 down 15.54126657 down 5.699893971 down 3.429669315 down 10.038144 up 5.375436909 down 11.7354859 down 8.751319 up 25.41773734 down 4.024325761 down 4.024325761 down 9.355061149 down 5.71695 up 4.55886 up	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2 1.77E-04 MX2 1.22E-04 NPPB 1.38E-04 BTG2 0.00115053 C10orf58 3.67E-04 OAS1 0.00269063 DCN 7.66E-04 IRF9 5.01E-04 KRT19 5.83E-04 COX7A1 5.53E-05 GALNT14 5.42E-05 STAT4 7.93E-06 CADPS 0.00149673 PARP9 3.02E-05 CLEC3B 3.02E-05 SMO 1.74E-04 IL6 0.00341189 CXCL1
205 A.23_P56559 206 A.23_P57199 207 A.23_P57709 208 A.23_P58251 209 A.23_P58251 210 A.23_P62081 211 A.23_P62188 212 A.23_P6263 213 A.23_P62752 214 A.23_P62901 215 A.23_P63660 216 A.23_P64828 217 A.23_P64873 218 A.23_P64873 219 A.23_P67661 221 A.23_P67661 221 A.23_P67847 222 A.23_P68031 223 A.23_P69326 224 A.23_P69383 225 A.23_P69497 226 A.23_P70818 227 A.23_P71037	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206 1241.45 116.541595 650.27826 142.13615 747.4204 53453.06 2238.6575 440.75153 2475.298 4078.7874 17.244715 2651.9617 576.24316 2992.2236 656.4259 1918.3821	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164 2.2871954 -2.0532436 0.88243103 1.2916942 2.054779 1.4303145 0.96018195 -1.6853895 1.2112532 1.830925 -1.5776716 2.3036098 1.1249332 2.2170186 1.6281693 -1.2241836	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843 70.55574 2387.9683 245.66025 38.395306 65.17817 12100.289 878.8285 6042.4756 619.7031 473.74713 199.37465 139.81415 139.81415 139.81415 146.93002 191.7943 95.51476 14787.92	-2.57646 0.8474064 -1.1049638 -1.363029 -1.8271127 1.487256 -0.78353 -2.2712026 1.8882236 -0.9398811 -0.9987296 -1.9032532 -1.0806205 -0.81788754 1.6420312 -1.2151289 -1.7218807 1.5518287 -2.3641539 -0.88381386 -2.1609826 -1.5975777 1.2910621	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down 23.56213264 down 15.363844 up 3.536475062 down 4.891998374 down 15.54126657 down 5.699893971 down 3.429669315 down 10.038144 up 5.375436909 down 11.7354859 down 8.751319 up 25.41773734 down 4.024325761 down 20.792643 down 9.355061149 down 5.71695 up	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2 1.77E-04 MX2 1.22E-04 NPPB 1.38E-04 BTG2 0.00115053 C10orf58 3.67E-04 OAS1 0.00269063 DCN 7.66E-04 IRF9 5.01E-04 KRT19 5.83E-04 COX7A1 5.53E-05 GALNT14 5.42E-05 STAT4 7.93E-06 CADPS 0.00149673 PARP9 3.02E-05 CLEC3B 3.02E-05 SMO 1.74E-04 IL6
205 A.23.P56559 206 A.23.P57199 207 A.23.P57709 208 A.23.P58251 209 A.23.P58251 210 A.23.P62081 211 A.23.P62081 212 A.23.P62081 213 A.23.P62901 215 A.23.P63660 216 A.23.P63680 217 A.23.P63680 218 A.23.P64828 217 A.23.P64873 218 A.23.P64873 218 A.23.P67661 221 A.23.P67661 221 A.23.P68031 222 A.23.P68031 223 A.23.P69326 224 A.23.P69383 225 A.23.P69383 225 A.23.P69883 226 A.23.P70818 227 A.23.P71037 228 A.23.P71037 228 A.23.P7144	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206 1241.45 116.541595 650.27826 142.13615 747.4204 53453.06 2238.6575 440.75153 2475.298 4078.7874 17.244715 2651.9617 576.24316 2992.2236 656.4259 1918.3821 19972.22	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164 2.2871954 -2.0532436 0.88243103 1.2916942 2.054779 1.4303145 0.96018195 -1.6853895 1.2112532 1.830925 -1.5776716 2.3036098 1.1249332 2.2170186 1.6281693 -1.2241836 -1.0932806	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843 70.55574 2387.9683 245.66025 38.395306 65.17817 12100.289 878.8285 6042.4756 619.7031 473.74713 199.37465 139.81415 186.93002 191.7943 95.51476 14787.92 118170.625	-2.57646 0.8474064 -1.1049633 -1.363029 -1.8271127 1.487256 -0.78353 -2.2712026 1.8882236 -0.9398811 -0.9987296 -1.9032532 -1.0806205 -0.81788754 1.6420312 -1.2151289 -1.7218807 1.5518287 -2.3641539 -0.88381386 -2.1609826 -1.5975777 1.2910621 1.0953925	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down 23.56213264 down 15.363844 up 3.536475062 down 4.891998374 down 15.54126657 down 5.699893971 down 3.429669315 down 10.038144 up 5.375436909 down 11.7354859 down 8.751319 up 25.41773734 down 4.024325761 down 4.024325761 down 9.355061149 down 5.71695 up 4.55886 up	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2 1.77E-04 MX2 1.22E-04 NPPB 1.38E-04 BTG2 0.00115053 C10orf58 3.67E-04 OAS1 0.00269063 DCN 7.66E-04 IRF9 5.01E-04 KRT19 5.83E-04 COX7A1 5.53E-05 GALNT14 5.42E-05 STAT4 7.93E-06 CADPS 0.00149673 PARP9 3.02E-05 CLEC3B 3.02E-05 SMO 1.74E-04 IL6 0.00341189 CXCL1
205 A.23.P56559 206 A.23.P57199 207 A.23.P57709 208 A.23.P58251 209 A.23.P58251 210 A.23.P62081 211 A.23.P62081 212 A.23.P62082 213 A.23.P62063 214 A.23.P62063 215 A.23.P62091 215 A.23.P63660 216 A.23.P64828 217 A.23.P64873 218 A.23.P64873 218 A.23.P67661 221 A.23.P67661 221 A.23.P67847 222 A.23.P67847 222 A.23.P68031 223 A.23.P69383 225 A.23.P69383 225 A.23.P69497 226 A.23.P70818 227 A.23.P71037 228 A.23.P71530 230 A.23.P72668	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206 1241.45 116.541595 650.27826 142.13615 747.4204 53453.06 2238.6575 440.75153 2475.298 4078.7874 17.244715 2651.9617 576.24316 2992.2236 656.4259 1918.3821 19972.22 4096.2026 453.49988	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164 2.2871954 -2.0532436 0.88243103 1.2916942 2.054779 1.4303145 0.96018195 -1.6853895 1.2112532 1.830925 -1.5776716 2.3036098 1.1249332 2.2170186 1.6281693 -1.2932806 1.3002121 0.79405737	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843 70.55574 2387.9683 245.66025 38.395306 65.17817 12100.289 878.8285 6042.4756 619.7031 473.74713 199.37465 139.81415 186.93002 191.7943 95.51476 14787.92 118170.625 930.69116 191.2649	-2.57646 0.8474064 -1.1049683 -1.363029 -1.8271127 1.487256 -0.78353 -2.2712026 1.8882236 -0.9398811 -0.9987296 -1.9032532 -1.0806220 -0.81788754 1.6420312 -1.2151289 -1.7218807 1.5518287 -2.3641539 -0.88381386 -2.1609826 -1.5975777 1.2910621 1.0953925 -1.2490153 -0.85818875	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down 15.363844 up 3.536475062 down 4.891998374 down 15.54126657 down 5.699893971 down 3.429669315 down 10.038144 up 5.375436909 down 11.7354859 down 4.751319 up 25.41773734 down 4.024325761 down 20.792643 down 9.355061149 down 5.71695 up 4.55886 up 5.853207754 down 3.143226391 down	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2 1.77E-04 MX2 1.22E-04 NPPB 1.38E-04 BTG2 0.00115053 C10orf58 3.67E-04 OAS1 0.00269063 DCN 7.66E-04 IRF9 5.01E-04 KRT19 5.83E-04 COX7A1 5.53E-05 GALNT14 5.42E-05 STAT4 7.93E-06 CADPS 0.00149673 PARP9 3.02E-05 SMO 1.74E-04 IL6 0.00341189 CXCL1 1.90E-04 TNFRSF11B 9.96E-04 SDPR
205 A.23_P56559 206 A.23_P57199 207 A.23_P57709 208 A.23_P58251 209 A.23_P58251 210 A.23_P62881 211 A.23_P6288 212 A.23_P6263 213 A.23_P6263 214 A.23_P62752 214 A.23_P62752 214 A.23_P64828 217 A.23_P64828 217 A.23_P64828 217 A.23_P64873 218 A.23_P64873 218 A.23_P66492 220 A.23_P67661 221 A.23_P67661 221 A.23_P69383 225 A.23_P69383 225 A.23_P69497 226 A.23_P70818 227 A.23_P71037 228 A.23_P71530 230 A.23_P72668 231 A.23_P72668 231 A.23_P72668	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206 1241.45 116.541595 650.27826 142.13615 747.4204 53453.06 2238.6575 440.75153 2475.298 4078.7874 17.244715 2651.9617 576.24316 2992.2236 656.4259 1918.3821 19972.22 4096.2026 453.49988 17885.543	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164 2.2871954 -2.0532436 0.88243103 1.2916942 2.054779 1.4303145 0.96018195 -1.6853895 1.2112532 1.830925 -1.5776716 2.3036098 1.1249332 2.2170186 1.6281693 -1.2241836 -1.0932806 1.3002121 0.79405737 2.2569797	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843 70.55574 2387.9683 245.66025 38.395306 65.17817 12100.289 878.8285 6042.4756 619.7031 473.74713 199.37465 139.81415 186.93002 191.7943 95.51476 14787.92 118170.625 930.69116 191.2649 1090.7417	-2.57646 0.8474064 -1.1049683 -1.363029 -1.8271127 1.487256 -0.78353 -2.2712026 1.8882236 -0.9398811 -0.9987296 -1.9032532 -1.0806205 -0.81788754 1.6420312 -1.2151289 -1.7218807 1.5518287 -2.3641539 -0.88381386 -2.1609826 -1.5975777 1.2910621 1.0953925 -1.2490153 -0.85818875 -2.2070367	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down 23.56213264 down 15.363844 up 3.536475062 down 4.891998374 down 15.54126657 down 5.699893971 down 3.429669315 down 10.038144 up 5.375436909 down 11.7354859 down 4.024325761 down 20.792643 down 9.355061149 down 5.71695 up 4.55886 up 5.853207754 down 3.143226391 down 22.07002634 down	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2 1.77E-04 MX2 1.22E-04 NPPB 1.38E-04 BTG2 0.00115053 C10orf58 3.67E-04 OAS1 0.00269063 DCN 7.66E-04 IRF9 5.01E-04 KRT19 5.83E-04 COX7A1 5.53E-05 GALNT14 5.42E-05 STAT4 7.93E-06 CADPS 0.00149673 PARP9 3.02E-05 SMO 1.74E-04 IL6 0.00341189 CXCL1 1.90E-04 TNFRSF11B 9.96E-04 SDPR 7.20E-05 IFITM1
205 A.23.P56559 206 A.23.P57199 207 A.23.P57709 208 A.23.P58251 209 A.23.P58251 210 A.23.P62081 211 A.23.P62188 212 A.23.P6263 213 A.23.P62752 214 A.23.P62901 215 A.23.P63660 216 A.23.P64828 217 A.23.P64873 218 A.23.P64873 218 A.23.P65442 219 A.23.P66798 220 A.23.P66798 220 A.23.P68031 221 A.23.P68031 222 A.23.P68031 223 A.23.P69326 224 A.23.P69383 225 A.23.P69947 226 A.23.P70818 227 A.23.P71037 228 A.23.P7144 229 A.23.P71530 230 A.23.P72668 231 A.23.P72668 231 A.23.P7237 232 A.23.P73420	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206 1241.45 116.541595 650.27826 142.13615 747.4204 53453.06 2238.6575 440.75153 2475.298 4078.7874 17.244715 2651.9617 576.24316 2992.2236 656.4259 1918.3821 19972.22 4096.2026 453.49988 17885.543 360.10577	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164 2.2871954 -2.0532436 0.88243103 1.2916942 2.054779 1.4303145 0.96018195 -1.6853895 1.2112532 1.830925 -1.5776716 2.3036098 1.1249332 2.2170186 1.6281693 -1.2241836 -1.0932806 1.3002121 0.79405737 2.2569797 0.8420539	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843 70.55574 2387.9683 245.66025 38.395306 619.7031 473.74713 199.37465 139.81415 186.93002 191.7943 95.51476 14787.92 118170.625 930.69116 191.2649 1090.7417 154.1402	-2.57646 0.8474064 -1.1049683 -1.363029 -1.8271127 1.487256 -0.78353 -2.2712026 1.8882236 -0.9398811 -0.9987296 -1.806205 -0.81788754 1.6420312 -1.2151289 -1.7218807 1.5518287 -2.3641539 -0.88381386 -2.1609826 -1.5975777 1.2910621 1.0953925 -1.2490153 -0.85818875 -2.2070367 -0.8297198	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down 23.56213264 down 15.363844 up 3.536475062 down 4.891998374 down 15.54126657 down 5.699893971 down 3.429669315 down 10.038144 up 5.375436909 down 11.7354859 down 8.751319 up 25.41773734 down 4.024325761 down 20.792643 down 9.355061149 down 5.71695 up 4.55886 up 5.853207754 down 3.143226391 down 22.07002634 down 3.18606045 down	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2 1.77E-04 MX2 1.22E-04 NPPB 1.38E-04 BTG2 0.00115053 C10orf58 3.67E-04 OAS1 0.00269063 DCN 7.66E-04 IRF9 5.01E-04 KRT19 5.83E-04 COX7A1 5.53E-05 GALNT14 5.42E-05 STAT4 7.93E-06 CADPS 0.00149673 PARP9 3.02E-05 SMO 1.74E-04 IL6 0.00341189 CXCL1 1.90E-04 TNFRSF11B 9.96E-04 SDPR 7.20E-05 IFITM1 0.00156142 TRAPPC9
205 A.23.P56559 206 A.23.P57199 207 A.23.P57709 208 A.23.P58251 209 A.23.P58251 210 A.23.P62081 211 A.23.P62188 212 A.23.P6263 213 A.23.P62752 214 A.23.P62901 215 A.23.P64828 217 A.23.P64828 217 A.23.P64873 218 A.23.P64873 218 A.23.P66798 220 A.23.P6661 221 A.23.P6661 221 A.23.P68031 223 A.23.P68031 223 A.23.P68031 224 A.23.P69383 225 A.23.P69383 225 A.23.P69383 225 A.23.P71937 228 A.23.P7144 229 A.23.P7144 229 A.23.P71530 230 A.23.P72668 231 A.23.P7237 232 A.23.P73420 233 A.23.P73429	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206 1241.45 116.541595 650.27826 142.13615 747.4204 53453.06 2238.6575 440.75153 2475.298 4078.7874 17.244715 2651.9617 576.24316 2992.2236 656.4259 1918.3821 19972.22 4096.2026 453.4998 17885.543 360.10577 195.7334	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164 2.2871954 -2.0532436 0.88243103 1.2916942 2.054779 1.4303145 0.96018195 -1.6853895 1.2112532 1.830925 -1.5776716 2.3036098 1.1249332 2.2170186 1.6281693 -1.2241836 -1.0932806 1.3002121 0.79405737 2.2569797 0.8420539 -1.2045768	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843 70.55574 2387.9683 245.66025 38.395306 65.17817 12100.289 878.8285 6042.4756 619.7031 473.74713 199.37465 139.81415 186.93002 191.7943 95.51476 14787.92 118170.625 930.69116 191.2649 1090.7417 154.1402 1464.9465	-2.57646 0.8474064 -1.1049683 -1.363029 -1.8271127 1.487256 -0.78353 -2.2712026 1.8882236 -0.9398811 -0.9987296 -1.9032532 -1.0806205 -0.81788754 1.6420312 -1.2151289 -1.7218807 1.5518287 -2.3641539 -0.88381386 -2.1609826 -1.5975777 1.2910621 1.0953925 -1.2490153 -0.85818875 -2.2070367 -0.8297198 1.2733266	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down 23.56213264 down 15.363844 up 3.536475062 down 4.891998374 down 15.54126657 down 5.699893971 down 10.038144 up 5.375436909 down 11.7354859 down 8.751319 up 25.41773734 down 4.024325761 down 20.792643 down 9.355061149 down 5.71695 up 4.55886 up 5.853207754 down 3.143226391 down 22.07002634 down 3.18606045 down 5.570873 up	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2 1.77E-04 MX2 1.22E-04 NPPB 1.38E-04 BTG2 0.00115053 C10orf58 3.67E-04 OAS1 0.00269063 DCN 7.66E-04 IRF9 5.01E-04 KRT19 5.83E-04 COX7A1 5.53E-05 GALNT14 5.42E-05 STAT4 7.93E-06 CADPS 0.00149673 PARP9 3.02E-05 CLEC3B 3.02E-05 SMO 1.74E-04 IL6 0.00341189 CXCL1 1.90E-04 TNFRSF11B 9.96E-04 SDPR 7.20E-05 IFITM1 0.00156142 TRAPPC9 1.12E-04 HCLS1
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205 A.23.P56559 206 A.23.P57199 207 A.23.P57709 208 A.23.P58251 209 A.23.P58251 210 A.23.P62081 211 A.23.P62188 212 A.23.P62901 215 A.23.P62901 216 A.23.P62901 217 A.23.P64828 217 A.23.P64828 217 A.23.P64828 217 A.23.P64873 218 A.23.P65442 219 A.23.P66798 220 A.23.P6661 221 A.23.P66798 220 A.23.P69326 224 A.23.P69326 224 A.23.P69383 225 A.23.P69383 225 A.23.P79818 227 A.23.P71037 228 A.23.P71037 228 A.23.P71530 230 A.23.P72668 231 A.23.P72668 231 A.23.P72668 233 A.23.P73420 233 A.23.P73429 234 A.23.P74290	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206 1241.45 116.541595 650.27826 142.13615 747.4204 53453.06 2238.6575 440.75153 2475.298 4078.7874 17.244715 2651.9617 576.24316 2992.2236 656.4259 1918.3821 19972.22 4096.2026 453.49988 17885.543 360.10577 195.7334 22.67836	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164 2.2871954 -2.0532436 0.88243103 1.2916942 2.054779 1.4303145 0.96018195 -1.6853895 1.2112532 1.830925 -1.5776716 2.3036098 1.1249332 2.2170186 1.6281693 -1.2241836 -1.0932806 1.3002121 0.79405737 2.2569797 0.8420539 -1.2045768 -1.4394702	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843 70.55574 2387.9683 245.66025 38.395306 65.17817 12100.289 878.8285 6042.4756 619.7031 473.74713 199.37465 139.81415 186.93002 191.7943 95.51476 14787.92 118170.625 930.69116 191.2649 1090.7417 154.1402 1464.9465 190.74121	-2.57646 0.8474064 -1.1049633 -1.363029 -1.8271127 1.487256 -0.78353 -2.2712026 1.8882236 -0.9398811 -0.9987296 -1.9032532 -1.0806205 -0.81788754 1.6420312 -1.2151289 -1.7218807 1.5518287 -2.3641539 -0.88381386 -2.1609826 -1.5975777 1.2910621 1.0953925 -1.2490153 -0.85818875 -2.2070367 -0.8297198 1.2733266 1.2385834	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down 23.56213264 down 15.363844 up 3.536475062 down 4.891998374 down 15.54126657 down 5.699893971 down 10.038144 up 5.375436909 down 11.7354859 down 8.751319 up 25.41773734 down 4.024325761 down 20.792643 down 9.355061149 down 5.71695 up 4.55886 up 5.853207754 down 3.143226391 down 22.07002634 down 3.18606045 down 5.570873 up 6.3999176 up	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2 1.77E-04 MX2 1.22E-04 NPPB 1.38E-04 BTG2 0.00115053 C10orf58 3.67E-04 OAS1 0.00269063 DCN 7.66E-04 IRF9 5.01E-04 KRT19 5.83E-04 COX7A1 5.53E-05 GALNT14 5.42E-05 STAT4 7.93E-06 CADPS 0.00149673 PARP9 3.02E-05 CLEC3B 3.02E-05 SMO 1.74E-04 IL6 0.00341189 CXCL1 1.90E-04 TNFRSF11B 9.96E-04 SDPR 7.20E-05 IFITM1 0.00156142 TRAPPC9 1.12E-04 HCLS1 0.00100397 GBP5
205 A.23_P56559 206 A.23_P57199 207 A.23_P57709 208 A.23_P58251 209 A.23_P58251 210 A.23_P62081 211 A.23_P62188 212 A.23_P62752 214 A.23_P62752 214 A.23_P62901 215 A.23_P63660 216 A.23_P64828 217 A.23_P64873 218 A.23_P64873 219 A.23_P66798 220 A.23_P66798 221 A.23_P66798 222 A.23_P68031 223 A.23_P69326 224 A.23_P68031 223 A.23_P69383 224 A.23_P69383 225 A.23_P69383 225 A.23_P7847 226 A.23_P7818 227 A.23_P7144 229 A.23_P71530 230 A.23_P72668 231 A.23_P72668 231 A.23_P72668 233 A.23_P72668 233 A.23_P72668 234 A.23_P74290 235 A.23_P75283 236 A.23_P7586	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206 1241.45 116.541595 650.27826 142.13615 747.4204 53453.06 2238.6575 440.75153 2475.298 4078.7874 17.244715 2651.9617 576.24316 2992.2236 656.4259 1918.3821 19972.22 4096.2026 453.49988 17885.543 360.10577 195.7334 22.67836 923.99774 939.48364	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164 2.2871954 -2.0532436 0.88243103 1.2916942 2.054779 1.4303145 0.96018195 -1.6853895 1.2112532 1.830925 -1.5776716 2.3036098 1.1249332 2.2170186 1.6281693 -1.2241836 -1.0932806 1.3002121 0.79405737 2.2569797 2.2569797 2.2569797 1.4394702 1.3473656 0.9025929	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843 70.55574 2387.9683 245.66025 38.395306 65.17817 12100.289 878.8285 6042.4756 619.7031 473.74713 199.37465 139.81415 186.93002 191.7943 95.51476 14787.92 118170.625 930.69116 191.2649 1090.7417 195.41402 1464.9465 190.74121 196.41098 360.1665	-2.57646 0.8474064 -1.1049633 -1.363029 -1.8271127 1.487256 -0.78353 -2.2712026 1.8882236 -0.9398811 -0.9987296 -1.9032532 -1.0806205 -0.81788754 1.6420312 -1.2151289 -1.7218807 1.5518287 -2.3641539 -0.88381386 -2.1609826 -1.5975777 1.2910621 1.0953925 -1.2490153 -0.85818875 -2.2070367 -0.8297198 1.2733266 1.2385834 -1.3201392 -0.91350174	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down 23.56213264 down 15.363844 up 3.536475062 down 4.891998374 down 15.54126657 down 5.699893971 down 3.429669315 down 10.038144 up 5.375436909 down 11.7354859 down 8.751319 up 25.41773734 down 4.024325761 down 20.792643 down 9.355061149 down 5.71695 up 4.55886 up 5.853207754 down 3.18266391 down 22.07002634 down 3.18606045 down 3.18606045 down 5.570873 up 6.3999176 up 6.353293837 down 3.521267115 down	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2 1.77E-04 MX2 1.22E-04 NPPB 1.38E-04 BTG2 0.00115053 C10orf58 3.67E-04 OAS1 0.00269063 DCN 7.66E-04 IRF9 5.01E-04 KRT19 5.83E-04 COX7A1 5.53E-05 GALNT14 5.42E-05 STAT4 7.93E-06 CADPS 0.00149673 PARP9 3.02E-05 CLEC3B 3.02E-05 SMO 1.74E-04 IL6 0.00341189 CXCL1 1.90E-04 TNFRSF11B 9.96E-04 SDPR 7.20E-05 IFITM1 0.00156142 TRAPPC9 1.12E-04 HCLS1 0.00100397 GBP5 1.96E-04 RBP4 7.82E-04 SLC15A3
205 A.23_P56559 206 A.23_P57199 207 A.23_P57709 208 A.23_P58251 209 A.23_P58251 210 A.23_P62081 211 A.23_P62188 212 A.23_P6263 213 A.23_P62752 214 A.23_P62901 215 A.23_P64828 217 A.23_P64873 218 A.23_P64873 219 A.23_P66798 220 A.23_P66798 220 A.23_P667661 221 A.23_P66798 222 A.23_P68031 223 A.23_P69326 224 A.23_P68031 223 A.23_P69326 224 A.23_P69383 225 A.23_P69497 226 A.23_P70818 227 A.23_P71037 228 A.23_P71037 228 A.23_P71037 228 A.23_P71037 228 A.23_P71037 228 A.23_P71688 231 A.23_P72688 231 A.23_P7268 231 A.23_P72737 232 A.23_P73429 233 A.23_P74290 235 A.23_P75283	4611.294 36.015564 12339.703 1132.1229 208.32251 114.80429 735.9206 1241.45 116.541595 650.27826 142.13615 747.4204 53453.06 2238.6575 440.75153 2475.298 4078.7874 17.244715 2651.9617 576.24316 2992.2236 656.4259 1918.3821 19972.22 4096.2026 453.49988 17885.543 360.10577 195.7334 22.67836 923.99774	2.8495817 -1.0315521 1.1109436 1.386018 1.7472277 -1.4485172 0.86866164 2.2871954 -2.0532436 0.88243103 1.2916942 2.054779 1.4303145 0.96018195 -1.6853895 1.2112532 1.830925 -1.5776716 2.3036098 1.1249332 2.2170186 1.6281693 -1.2241836 -1.0932806 1.3002121 0.79405737 2.2569797 0.8420539 -1.2045768 -1.4394702 1.3473656	146.33392 173.812 3568.2483 218.55078 23.771408 1172.2974 317.66843 70.55574 2387.9683 245.66025 38.395306 65.17817 12100.289 878.8285 6042.4756 619.7031 473.74713 199.37465 139.81415 186.93002 191.7943 95.51476 14787.92 118170.625 930.69116 191.2649 1090.7417 154.1402 1464.9465 190.74121 196.41098	-2.57646 0.8474064 -1.1049633 -1.363029 -1.8271127 1.487256 -0.78353 -2.2712026 1.8882236 -0.9398811 -0.9987296 -1.9032532 -1.0806205 -0.81788754 1.6420312 -1.2151289 -1.7218807 1.5518287 -2.3641539 -0.88381386 -2.1609826 -1.5975777 1.2910621 1.0953925 -1.2490153 -0.85818875 -2.2070367 -0.8297198 1.2733266 1.2385834 -1.3201392	42.99335194 down 3.6780944 up 4.645751031 down 6.722729299 down 11.91197205 down 7.6516633 up 3.143107442 down 23.56213264 down 15.363844 up 3.536475062 down 4.891998374 down 15.54126657 down 5.699893971 down 3.429669315 down 10.038144 up 5.375436909 down 11.7354859 down 8.751319 up 25.41773734 down 4.024325761 down 20.792643 down 9.355061149 down 5.71695 up 4.55886 up 5.853207754 down 3.143226391 down 22.07002634 down 3.18606045 down 5.570873 up 6.3999176 up 6.353293837 down	1.38E-04 DHRS9 0.00404693 GGTLC1 7.46E-05 PCOLCE2 1.55E-04 CPZ 3.34E-04 WNT2 1.18E-04 SCG5 2.11E-04 ZC4H2 1.77E-04 MX2 1.22E-04 NPPB 1.38E-04 BTG2 0.00115053 C10orf58 3.67E-04 OAS1 0.00269063 DCN 7.66E-04 IRF9 5.01E-04 KRT19 5.83E-04 COX7A1 5.53E-05 GALNT14 5.42E-05 STAT4 7.93E-06 CADPS 0.00149673 PARP9 3.02E-05 CLEC3B 3.02E-05 SMO 1.74E-04 IL6 0.00341189 CXCL1 1.90E-04 TNFRSF11B 9.96E-04 SDPR 7.20E-05 IFITM1 0.00156142 TRAPPC9 1.12E-04 HCLS1 0.00100397 GBP5 1.96E-04 RBP4

239 A_23_P78742	489.39148	1.2522988	126.978	-1.1276084	5.205032475 down	3.28E-04 FLT3LG
240 A_23_P78762	103.82074	-0.9193839	489.41803	0.8739157	3.466067 up	9.96E-04 HSD17B14
241 A_23_P79518	12095.953	-1.4243879	108502.97	1.2967374	6.5938697 up	0.00334601 IL1B
242 A_23_P82929	10444.37	1.6591554	1526.986	-1.5138578	9.01928612 down	1.77E-04 NOV
243 A_23_P83298	6927.586	0.83969903	3105.0715	-0.7731674	3.058589421 down	0.00154727 PRRX2
244 A_23_P87150	395.48056	-1.3022864	3080.3948	1.214138	5.721623 up	0.002899 LPXN
245 A_23_P87545	94091.85	1.0810084	29296.797	-1.0405095	4.351515226 down	5.44E-04 IFITM3
246 A_23_P89431	2589.6646	-0.91579175	11730.257	0.83368516	3.3623662 up	5.06E-04 CCL2
247 A_23_P8981					9.657468334 down	
	231.22327	1.6536999	31.736565	-1.6179452		1.55E-04 STAR
248 A_23_P90722	31.428509	-0.82064795	144.73962	0.94644916	3.4036841 up	3.07E-04 PTPRN
A_23_P90925	13.520733	-2.239828	391.13647	2.188521	21.531084 up	6.11E-05 IL1F8
250 A_23_P91334	681.8893	1.3123021	124.41982	-1.574176	7.394630034 down	0.00136511 HSPA12B
251 A_23_P91512	18.457024	-1.7834892	229.18503	1.3993554	9.080959 up	0.00230271 CLDN14
2 <mark>52</mark> A_23_P93938	610.8655	1.1794562	182.2256	-1.0155683	4.578974512 down	5.89E-04 NACAD
253 A_23_P94103	955.64026	1.9100652	92.48979	-1.8627461	13.66876856 down	4.45E-05 SCARA5
254 A_23_P94338	1111.058	0.97192955	413.98596	-0.8015032	3.418664335 down	0.0059312 ENPP2
255 A_23_P94800	12166.02	0.99587727	4829.7363	-0.76052904	3.378554839 down	0.00540154 S100A4
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56 A 23 P96369	29.253553	-0.9288833	168.26712	1.1713454	4.2877736 up	5.89E-04 CXorf57
57 A_23_P97606	738.80585	0.8349731	315.081	-0.83459926	3.181202706 down	8.78E-04 GSTM5
58 A_23_P98350	23.88463	-2.4960642	678.1415	2.0149667	22.801094 up	8.39E-04 BIRC3
59 A_23_P98645	723.0101	0.81987214	307.93036	-0.81644416	3.108710358 down	0.00344749 DCHS1
60 A_23_P9883	52.11023	-0.9120821	240.19595	0.83914995	3.3664594 up	0.00344743 DCH31 0.00302071 NLRP3
61 A_24_P100517	1298.898	0.76415944	567.3978	-0.85137653	3.064254036 down	4.80E-04 C9orf140
62 A_24_P11315	1722.5615	0.94875073	702.5072	-0.73634243	3.215611718 down	0.00222553 OLFML3
63 A_24_P11506	224.5301	-1.3085651	1992.3182	1.3861101	6.47408 up	4.65E-04 KYNU
.64 A_24_P120537	19.04616	-1.1371882	123.64075	1.1234938	4.79218 up	2.00E-04 SH3RF2
.65 A_24_P12401	481.91446	-0.80308604	2013.5562	0.8281305	3.097741 up	5.05E-04 VEGFA
66 A_24_P142118	1454.0629	-0.95989656	5770.92	0.6585741	3.0704937 up	0.00550558 THBS1
67 A_24_P15502	33808.785	1.1532171	9858.357	-1.0652313	4.653926357 down	5.92E-04
68 A_24_P160401	155.19751	-1.3928798	1349.697	1.249074	6.2417636 up	2.39E-04 CDCP1
69 A_24_P16124	27083.322	1.1989768	7409.306	-1.1082096	4.949169309 down	3.34E-04 IFITM4P
70 A_24_P16214	91.916046	-1.003369	410.596	0.7682276	3.414316 up	0.00106261 LOC100127980
71 A_24_P166443	865.5898	1.5694139	155.21056	-1.3490262	7.560282479 down	8.66E-04 HLA-DPB1
71 A_24_P100443 272 A_24_P179816	421.55188					
TO CHELLMAIN						
7_7_2-1 173010	421.33100	0.81199956	173.31415	-0.90496063	3.287429854 down	0.00159092 SLC27A3
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73 A_24_P183150	296.12323	-1.9117328	5461.422	1.8802583	13.851701 up	2.23E-04 CXCL3
73 A_24_P183150 74 A_24_P192727	296.12323 6366.581	-1.9117328 0.98813725	5461.422 2208.664	1.8802583 -0.9595561	13.851701 up 3.857572558 down	2.23E-04 CXCL3 5.01E-04
173 A_24_P183150 174 A_24_P192727 175 A_24_P212481	296.12323 6366.581 28.939457	-1.9117328 0.98813725 -1.3184328	5461.422 2208.664 237.55684	1.8802583 -0.9595561 1.2878864	13.851701 up 3.857572558 down 6.089481 up	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1
73 A_24_P183150 74 A_24_P192727 75 A_24_P212481 76 A_24_P215765	296.12323 6366.581 28.939457 717.15753	-1.9117328 0.98813725 -1.3184328 1.238466	5461.422 2208.664 237.55684 168.60233	1.8802583 -0.9595561 1.2878864 -1.2705084	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A
173 A_24_P183150 174 A_24_P192727 175 A_24_P212481	296.12323 6366.581 28.939457	-1.9117328 0.98813725 -1.3184328	5461.422 2208.664 237.55684	1.8802583 -0.9595561 1.2878864	13.851701 up 3.857572558 down 6.089481 up	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1
73 A_24_P183150 74 A_24_P192727 75 A_24_P212481 76 A_24_P215765	296.12323 6366.581 28.939457 717.15753	-1.9117328 0.98813725 -1.3184328 1.238466	5461.422 2208.664 237.55684 168.60233	1.8802583 -0.9595561 1.2878864 -1.2705084	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A
173 A_24_P183150 174 A_24_P192727 175 A_24_P212481 176 A_24_P215765 177 A_24_P228796	296.12323 6366.581 28.939457 717.15753 2231.6199	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512	5461.422 2208.664 237.55684 168.60233 681.49384	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7
173 A_24_P183150 174 A_24_P192727 175 A_24_P212481 176 A_24_P215765 177 A_24_P228796 178 A_24_P237270	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696 0.9512086	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 ADORA2A
1.73 A_24_P183150 1.74 A_24_P192727 1.75 A_24_P212481 1.76 A_24_P215765 1.77 A_24_P228796 1.78 A_24_P237270 1.79 A_24_P250922	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008 239.77066	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974 -1.3475283	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775 2164.382	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696 0.9512086 1.3646593	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up 6.5531464 up	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 ADORA2A 3.18E-04 PTGS2
A.24_P183150 1.74 A.24_P192727 1.75 A.24_P212481 1.76 A.24_P215765 1.77 A.24_P228796 1.78 A.24_P237270 1.79 A.24_P250922 1.80 A.24_P252996 1.81 A.24_P257416	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008 239.77066 155.10478 2086.7	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974 -1.3475283 -0.8448626 -1.2477434	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775 2164.382 718.00165 15067.982	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696 0.9512086 1.3646593 0.93552804 1.1996636	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up 6.5531464 up 3.4351916 up 5.454349 up	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 ADORA2A 3.18E-04 PTGS2 4.32E-04 FOLR3 3.66E-04 CXCL2
A.24_P183150 174 A.24_P192727 175 A.24_P212481 176 A.24_P215765 177 A.24_P228796 178 A.24_P237270 179 A.24_P250922 180 A.24_P252996 181 A.24_P257416 182 A.24_P260639	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008 239.77066 155.10478 2086.7 12151.772	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974 -1.3475283 -0.8448626 -1.2477434 1.2771852	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775 2164.382 718.00165 15067.982 3888.9697	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696 0.9512086 1.3646593 0.93552804 1.1996636 -0.8063855	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up 6.5531464 up 3.4351916 up 5.454349 up 4.238549643 down	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 ADORA2A 3.18E-04 PTGS2 4.32E-04 FOLR3 3.66E-04 CXCL2 0.01361669 HIST1H1D
A.24_P183150 A.24_P192727 A.24_P212481 A.24_P215765 A.24_P228796 A.24_P237270 A.24_P250922 B.0 A.24_P250922 B.0 A.24_P257416 B.24_P257416 B.24_P260639 B.31 B.24_P260639 B.32_P262127	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008 239.77066 155.10478 2086.7 12151.772 61.428898	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974 -1.3475283 -0.8448626 -1.2477434 1.2771852 -1.4946	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775 2164.382 718.00165 15067.982 3888.9697 537.057	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409690 0.9512086 1.3646593 0.93552804 1.1996636 -0.8063855 1.2303004	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up 6.5531464 up 3.4351916 up 5.454349 up 4.238549643 down 6.6111465 up	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 ADORA2A 3.18E-04 PTGS2 4.32E-04 FOLR3 3.66E-04 CXCL2 0.01361669 HIST1H1D 0.00100948 RRAD
A.24_P183150 A.24_P192727 A.24_P212481 A.24_P215765 A.24_P228796 A.24_P237270 A.24_P237270 A.24_P250922 B.0 A.24_P252996 B.1 A.24_P257416 B.24_P260639 B.24_P262127 B.24_P260127 B.24_P260127 B.24_P260127	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008 239.77066 155.10478 2086.7 12151.772 61.42898 3623.593	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974 -1.3475283 -0.8448626 -1.2477434 1.2771852 -1.4946 1.6927004	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775 2164.382 718.00165 15067.982 3888.9697 537.057 498.81067	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696 0.9512086 1.3646593 0.93552804 1.1996636 -0.8063855 1.2303004 -1.579493	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up 6.5531464 up 3.4351916 up 5.454349 up 4.238549643 down 6.6111465 up 9.661140333 down	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 ADORA2A 3.18E-04 PTGS2 4.32E-04 FOLR3 3.66E-04 CXCL2 0.01361669 HIST1H1D 0.00100948 RRAD 3.96E-04 IFI27
A.24_P183150 A.24_P192727 A.24_P212481 A.24_P215765 A.24_P228796 A.24_P228796 A.24_P237270 A.24_P250922 B.0 A.24_P250996 B.1 A.24_P257416 B.2 A.24_P260639 A.24_P260639 A.24_P262127 A.24_P270460 B.3 A.24_P270460 B.3 A.24_P272761	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008 239.77066 155.10478 2086.7 12151.772 61.428898 3623.593 170.0635	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974 -1.3475283 -0.8448626 -1.2477434 1.2771852 -1.4946 1.6927004 0.86506975	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775 2164.382 718.00165 15067.982 3888.9697 537.057 498.81067 69.48293	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696 0.9512086 1.3646593 0.93552804 1.1996636 -0.8063855 1.2303004 -1.579493 -0.8711101	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up 6.5531464 up 3.4351916 up 5.454349 up 4.238549643 down 6.6111465 up 9.661140333 down 3.331518211 down	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 ADORA2A 3.18E-04 PTGS2 4.32E-04 FOLR3 3.66E-04 CXCL2 0.01361669 HIST1H1D 0.00100948 RRAD 3.96E-04 IFI27 0.00168056 DENND1A
A.24_P183150 A.24_P192727 A.24_P212481 A.24_P215765 A.24_P228796 A.24_P228796 A.24_P228727 B.24_P250922 B.00 A.24_P250996 B.11 B.24_P257416 B.24_P257416 B.24_P260639 B.24_P262127 B.24_P260639 B.24_P262127 B.24_P277367	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008 239.77066 155.10478 2086.7 12151.772 61.428898 3623.593 170.0635 533.30756	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974 -1.3475283 -0.8448626 -1.2477434 1.2771852 -1.4946 1.6927004 0.86506975 -2.9206693	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775 2164.382 718.00165 15067.982 3888.9697 537.057 498.81067 69.48293 45724.383	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696 0.9512086 1.3646593 0.93552804 1.1996636 -0.8063855 1.2303004 -1.579493 -0.8711101 3.0577464	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up 6.5531464 up 3.4351916 up 5.454349 up 4.238549643 down 6.6111465 up 9.661140333 down 3.331518211 down 63.049606 up	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 ADORA2A 3.18E-04 PTGS2 4.32E-04 FOLR3 3.66E-04 CXCL2 0.01361669 HIST1H1D 0.00100948 RRAD 3.96E-04 IFI27 0.00168056 DENND1A 9.97E-05 CXCL5
7.73 A 24 P183150 7.74 A 24 P192727 7.75 A 24 P212481 6 A 24 P215765 7.77 A 24 P228796 7.78 A 24 P237270 7.99 A 24 P250922 7.90 A 24 P250922 7.90 A 24 P257416 7.90 A 24 P262127 7.90 A 24 P262127 7.90 A 24 P27761 7.90 A 24 P27761 7.90 A 24 P277761 7.90 A 24 P277761 7.90 A 24 P277761 7.90 A 24 P277767	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008 239.77066 155.10478 2086.7 12151.772 61.428898 3623.593 170.0635 533.30756 465.66125	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974 -1.3475283 -0.8448626 -1.2477434 1.2771852 -1.4946 1.6927004 0.86506975 -2.9206693 0.97150755	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775 2164.382 718.00165 15067.982 3888.9697 537.057 498.81067 69.48293 45724.383 187.69763	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696 0.9512086 1.3646593 0.93552804 1.1996636 -0.8063855 1.2303004 -1.579493 -0.8711101 3.0577464 -0.78174305	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up 6.5531464 up 3.4351916 up 5.454349 up 4.238549643 down 6.6111465 up 9.661140333 down 3.331518211 down 63.049606 up 3.371172724 down	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 ADORA2A 3.18E-04 PTGS2 4.32E-04 FOLR3 3.66E-04 CXCL2 0.01361669 HIST1H1D 0.00100948 RRAD 3.96E-04 IFI27 0.00168056 DENND1A 9.97E-05 CXCL5 0.00265059 TRPM2
A. 24_P183150 A. 24_P192727 A. 24_P2192787 A. 24_P215765 A. 24_P228796 A. 24_P237270 A. 24_P250922 B. 24_P250922 B. 24_P257416 B. 24_P257416 B. 24_P257416 B. 24_P260639 B. 34_P260639 B. 34_P260639 B. 34_P260639 B. 34_P270761 B. 34_P270761 B. 34_P270761 B. 34_P27077 B. 34_P27077 B. 34_P27077 B. 34_P27077 B. 34_P27077 B. 34_P287043	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008 239.77066 155.10478 2086.7 12151.772 61.428898 3623.593 170.0635 533.30756 465.66125 52918.953	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974 -1.3475283 -0.8448626 -1.2477434 1.2771852 -1.4946 1.6927004 0.86506975 -2.9206693 0.97150755 1.161905	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775 2164.382 718.00165 15067.982 3888.9697 537.057 498.81067 69.48293 45724.383 187.69763 15160.01	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696 0.9512086 1.3646593 0.93552804 1.1996636 -0.8063855 1.2303004 -1.579493 -0.8711101 3.0577464 -0.78174305 -1.0803449	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up 6.5531464 up 3.4351916 up 5.454349 up 4.238549643 down 6.6111465 up 9.661140333 down 3.331518211 down 63.049606 up 3.371172724 down 4.731343661 down	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 ADORA2A 3.18E-04 PTGS2 4.32E-04 FOLR3 3.66E-04 CXCL2 0.01361669 HIST1H1D 0.00100948 RRAD 3.96E-04 IFI27 0.00168056 DENND1A 9.97E-05 CXCL5 0.00265059 TRPM2 3.96E-04 IFITM2
7.73 A 24 P183150 7.74 A 24 P192727 7.75 A 24 P212481 6 A 24 P215765 7.77 A 24 P228796 7.78 A 24 P237270 7.99 A 24 P250922 7.90 A 24 P250922 7.90 A 24 P257416 7.90 A 24 P262127 7.90 A 24 P262127 7.90 A 24 P27761 7.90 A 24 P27761 7.90 A 24 P277761 7.90 A 24 P277761 7.90 A 24 P277761 7.90 A 24 P277767	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008 239.77066 155.10478 2086.7 12151.772 61.428898 3623.593 170.0635 533.30756 465.66125	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974 -1.3475283 -0.8448626 -1.2477434 1.2771852 -1.4946 1.6927004 0.86506975 -2.9206693 0.97150755	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775 2164.382 718.00165 15067.982 3888.9697 537.057 498.81067 69.48293 45724.383 187.69763	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696 0.9512086 1.3646593 0.93552804 1.1996636 -0.8063855 1.2303004 -1.579493 -0.8711101 3.0577464 -0.78174305	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up 6.5531464 up 3.4351916 up 5.454349 up 4.238549643 down 6.6111465 up 9.661140333 down 3.331518211 down 63.049606 up 3.371172724 down	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 ADORA2A 3.18E-04 PTGS2 4.32E-04 FOLR3 3.66E-04 CXCL2 0.01361669 HIST1H1D 0.00100948 RRAD 3.96E-04 IFI27 0.00168056 DENND1A 9.97E-05 CXCL5 0.00265059 TRPM2
A.24_P183150 A.24_P192727 A.24_P212481 A.24_P215765 A.24_P228796 A.24_P237270 A.24_P250922 B.0 A.24_P250922 B.0 A.24_P257416 B.0 B.0 B.0 B.0 B.0 B.0 B.0 B.0	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008 239.77066 155.10478 2086.7 12151.772 61.428898 3623.593 170.0635 533.30756 465.66125 52918.953	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974 -1.3475283 -0.8448626 -1.2477434 1.2771852 -1.4946 1.6927004 0.86506975 -2.9206693 0.97150755 1.161905 1.4584496	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775 2164.382 718.00165 15067.982 3888.9697 537.057 498.81067 69.48293 45724.383 187.69763 15160.01 242.85852	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696 0.9512086 1.3646593 0.93552804 1.1996636 -0.8063855 1.2303004 -1.579493 -0.8711101 3.0577464 -0.78174305 -1.0803449	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up 6.5531464 up 3.4351916 up 5.454349 up 4.238549643 down 6.6111465 up 9.661140333 down 3.331518211 down 63.049606 up 3.371172724 down 4.731343661 down 8.279342362 down	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 ADORA2A 3.18E-04 PTGS2 4.32E-04 FOLR3 3.66E-04 CXCL2 0.01361669 HIST1H1D 0.00100948 RRAD 3.96E-04 IFI27 0.00168056 DENND1A 9.97E-05 CXCL5 0.00265059 TRPM2 3.96E-04 IFITM2 3.96E-04 RSAD2
A. 24_P183150 A. 24_P192727 A. 24_P2192787 A. 24_P215765 A. 24_P228796 A. 24_P237270 A. 24_P250922 B. 24_P250922 B. 24_P257416 B. 24_P257416 B. 24_P257416 B. 24_P260639 B. 34_P260639 B. 34_P260639 B. 34_P260639 B. 34_P270761 B. 34_P270761 B. 34_P270761 B. 34_P27077 B. 34_P27077 B. 34_P27077 B. 34_P27077 B. 34_P27077 B. 34_P287043	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008 239.77066 155.10478 2086.7 12151.772 61.428898 3623.593 170.0635 533.30756 465.66125 52918.953	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974 -1.3475283 -0.8448626 -1.2477434 1.2771852 -1.4946 1.6927004 0.86506975 -2.9206693 0.97150755 1.161905	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775 2164.382 718.00165 15067.982 3888.9697 537.057 498.81067 69.48293 45724.383 187.69763 15160.01	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696 0.9512086 1.3646593 0.93552804 1.1996636 -0.8063855 1.2303004 -1.579493 -0.8711101 3.0577464 -0.78174305 -1.0803449	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up 6.5531464 up 3.4351916 up 5.454349 up 4.238549643 down 6.6111465 up 9.661140333 down 3.331518211 down 63.049606 up 3.371172724 down 4.731343661 down	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 ADORA2A 3.18E-04 PTGS2 4.32E-04 FOLR3 3.66E-04 CXCL2 0.01361669 HIST1H1D 0.00100948 RRAD 3.96E-04 IFI27 0.00168056 DENND1A 9.97E-05 CXCL5 0.00265059 TRPM2 3.96E-04 IFITM2
A.24_P183150 A.24_P192727 A.24_P212481 A.24_P215765 A.24_P228796 A.24_P237270 A.24_P250922 B.0 A.24_P250922 B.0 A.24_P257416 B.0 B.0 B.0 B.0 B.0 B.0 B.0 B.0	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008 239.77066 155.10478 2086.7 12151.772 61.42898 3623.593 170.0635 533.30756 465.66125 52918.953 1518.6523	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974 -1.3475283 -0.8448626 -1.2477434 1.2771852 -1.4946 1.6927004 0.86506975 -2.9206693 0.97150755 1.161905 1.4584496	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775 2164.382 718.00165 15067.982 3888.9697 537.057 498.81067 69.48293 45724.383 187.69763 15160.01 242.85852	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696 0.9512086 1.3646593 0.93552804 1.1996636 -0.8063855 1.2303004 -1.579493 -0.8711101 3.0577464 -0.78174305 -1.0803449 -1.5910667	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up 6.5531464 up 3.4351916 up 5.454349 up 4.238549643 down 6.6111465 up 9.661140333 down 3.331518211 down 63.049606 up 3.371172724 down 4.731343661 down 8.279342362 down	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 ADORA2A 3.18E-04 PTGS2 4.32E-04 FOLR3 3.66E-04 CXCL2 0.01361669 HIST1H1D 0.00100948 RRAD 3.96E-04 IFI27 0.00168056 DENND1A 9.97E-05 CXCL5 0.00265059 TRPM2 3.96E-04 IFITM2 3.96E-04 RSAD2
A.24_P183150 A.24_P192727 A.24_P212481 A.24_P215765 A.24_P228796 A.24_P237270 A.24_P250922 B.0 A.24_P250922 B.0 A.24_P257416 B.0 B.24_P257416 B.0 B.24_P257416 B.0 B.0 B.0 B.0 B.0 B.0 B.0 B.0	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008 239.77066 155.10478 2086.7 12151.772 61.42898 3623.593 170.0635 533.30756 465.66125 52918.953 1518.6523	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974 -1.3475283 -0.8448626 -1.2477434 1.2771852 -1.4946 1.6927004 0.86506975 -2.9206693 0.97150755 1.161905 1.4584496 -1.0663613	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775 2164.382 718.00165 15067.982 3888.9697 537.057 498.81067 69.48293 45724.383 187.69763 15160.01 242.85852	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696 0.9512086 1.3646593 0.93552804 1.1996636 -0.8063855 1.2303004 -1.579493 -0.8711101 3.0577465 -1.0803449 -1.5910667 0.92390513	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up 6.5531464 up 3.4351916 up 5.454349 up 4.238549643 down 6.6111465 up 9.661140333 down 3.31518211 down 63.049606 up 3.371172724 down 4.731343661 down 8.279342362 down 3.9731038 up	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 PTGS2 4.32E-04 FOLR3 3.66E-04 CXCL2 0.01361669 HIST1H1D 0.00100948 RRAD 3.96E-04 IFI27 0.00168056 DENND1A 9.97E-05 CXCL5 0.00265059 TRPM2 3.96E-04 IFITM2 3.20E-04 RSAD2 0.00251273 SYTL3
A.24_P183150 A.24_P192727 A.24_P212481 A.24_P215765 A.24_P237270 A.24_P237270 A.24_P250922 B.0 A.24_P250922 B.0 A.24_P250922 B.0 A.24_P257416 B.2 A.24_P257416 B.2 A.24_P260639 B.3 A.24_P260639 B.3 A.24_P260639 B.3 A.24_P270460 B.5 A.24_P277761 B.6 A.24_P277761 B.7 A.24_P27977 B.7 A.24_P27977 B.7 A.24_P287043 B.9 A.24_P287022 B.9 A.24_P287022	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008 239.77066 155.10478 2086.7 12151.772 61.428898 3623.593 170.0635 533.30756 465.66125 52918.953 1518.6523 90.994156 88.32518 210.0231	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974 -1.3475283 -0.8448626 -1.2477434 1.2771852 -1.4946 1.6927004 0.86506975 -2.9206693 0.97150755 1.161905 1.4584496 -1.0663613 -0.95201814 -1.3903023	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775 2718.00165 15067.982 3888.9697 537.057 498.81067 69.48293 45724.383 15160.01 242.85852 489.37372 355.88498 1777.5305	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696 0.9512086 1.3646593 0.93552804 1.1996636 -0.8063855 1.2303004 -1.579493 -0.8711101 3.0577464 -0.78174305 -1.0803449 -1.5910667 0.92390513 0.70021296 1.269352	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up 6.5531464 up 3.4351916 up 5.454349 up 4.238549643 down 6.6111465 up 9.661140333 down 3.331518211 down 63.049606 up 3.371172724 down 4.731343661 down 8.279342362 down 3.9731038 up 3.1431935 up	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 ADORA2A 3.18E-04 PTGS2 4.32E-04 FOLR3 3.66E-04 CXCL2 0.01361669 HIST1H1D 0.00100948 RRAD 3.96E-04 IFI27 0.00168056 DENND1A 9.97E-05 CXCL5 0.00265059 TRPM2 3.96E-04 IFITM2 3.20E-04 RSAD2 0.00251273 SYTL3 0.00617707 SCN9A
A 24 P183150 A 24 P183150 A 24 P192727 A 24 P212481 A 24 P215765 A 24 P228796 A 24 P250922 B A 24 P250922 A 24 P250922 A 24 P257416 A 24 P257416 A 24 P262127 A 24 P262127 A 24 P270460 B A 24 P270761 B A 24 P270761 B A 24 P27077 B A 24 P27077 B A 24 P27077 B A 24 P27077 B A 24 P287022 B A 24 P287023 B A 24 P287023 B A 24 P287023 B A 24 P291826 B A 24 P3005 B A 24 P300777 B A 24 P300777 B A 24 P300777	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008 239.77066 155.10478 2086.7 12151.772 61.428898 3623.593 170.0635 533.30756 465.66125 52918.953 1518.6523 90.994156 88.32518 210.0231 87.21439	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974 -1.3475283 -0.8448626 -1.2477434 1.2771852 -1.4946 1.6927004 0.86506975 -2.9206693 0.97150755 1.161905 1.4584496 -1.0663613 -0.95201814 -1.3903023 -1.426415	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775 2164.382 718.00165 15067.982 3888.9697 537.057 498.81067 69.48293 45724.383 187.69763 15160.01 242.85852 489.37372 355.88498 1777.5305 823.9355	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696 0.9512086 1.3646593 0.93552804 1.1996636 -0.8063855 1.2303004 -1.579493 -0.8711101 3.0577464 -0.78174305 -1.0803449 -1.5910667 0.92390513 0.70021296 1.269352 1.3925831	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up 6.5531464 up 3.4351916 up 5.454349 up 4.238549643 down 6.6111465 up 9.661140333 down 3.331518211 down 63.049606 up 3.371172724 down 4.731343661 down 8.279342362 down 3.9731038 up 3.1431935 up 6.3188157 up 7.0567217 up	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 ADORA2A 3.18E-04 PTGS2 4.32E-04 FOLR3 3.66E-04 CXCL2 0.01361669 HIST1H1D 0.00100948 RRAD 3.96E-04 IFI27 0.00168056 DENND1A 9.97E-05 CXCL5 0.00265059 TRPM2 3.96E-04 IFITM2 3.20E-04 RSAD2 0.00251273 SYTL3 0.00617707 SCN9A 2.21E-04 ADAM8
A 24 P183150 A 24 P183150 A 24 P192727 A 24 P212481 A 24 P215765 A 24 P228796 A 24 P250922 B A 24 P250922 B A 24 P250922 A 24 P260639 A 24 P260639 A 24 P260639 A 24 P27367 A 24 P270460 B A 24 P270460 B A 24 P270460 B A 24 P270761 A 24 P270761 A 24 P270761 A 24 P27077 B A 24 P287022 B A 24 P287023 B A 24 P3005 B A 24 P3005 B A 24 P3005 B A 24 P3005 B A 24 P3005777 B A 24 P3005784 B A 24 P3005784	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008 239.77066 155.10478 2086.7 12151.772 61.428898 3623.593 170.0635 533.30756 465.66125 52918.953 1518.6523 90.994156 88.32518 210.0231 87.21439 33.72374	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974 -1.3475283 -0.8448626 -1.2477434 1.2771852 -1.4946 1.6927004 0.86506975 -2.9206693 0.97150755 1.161905 1.4584496 -1.0663613 -0.95201814 -1.3903023 -1.426415 -1.7539726	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775 2164.382 718.00165 15067.982 3888.9697 537.057 498.81067 69.48293 45724.383 187.69763 15160.01 242.85852 489.37372 355.88498 1777.5305 823.9355 476.2764	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696 0.9512086 1.3646593 0.93552804 1.1996636 -0.8063855 1.2303004 -1.579493 -0.8711101 3.0577464 -0.78174305 -1.0803449 -1.5910667 0.92390513 0.70021296 1.269352 1.3925831 1.6159499	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up 6.5531464 up 3.4351916 up 5.454349 up 4.238549643 down 6.6111465 up 9.661140333 down 3.331518211 down 63.049606 up 3.371172724 down 4.731343661 down 8.279342362 down 3.9731038 up 3.1431935 up 6.3188157 up 7.0567217 up 10.338268 up	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 ADORA2A 3.18E-04 PTGS2 4.32E-04 FOLR3 3.66E-04 CXCL2 0.01361669 HIST1H1D 0.00100948 RRAD 3.96E-04 IFI27 0.00168056 DENND1A 9.97E-05 CXCL5 0.00265059 TRPM2 3.96E-04 IFITM2 3.20E-04 RSAD2 0.00251273 SYTL3 0.00617707 SCN9A 2.21E-04 ADAM8 5.67E-05 AMPD3 7.09E-04 SPANXB2
A.24_P183150 A.24_P183150 A.24_P192727 A.24_P212481 A.24_P215765 A.24_P228796 A.24_P252996 B.1 A.24_P250922 B.2 A.24_P250922 B.3 A.24_P257416 B.2 A.24_P257416 B.2 A.24_P257416 B.3 A.24_P257416 B.4 A.24_P257416 B.5 A.24_P277367 B.6 A.24_P277367 B.7 A.24_P277367 B.8 A.24_P277367 B.8 A.24_P287022 B.9 A.24_P287022 B.9 A.24_P287043 B.9	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008 239.77066 155.10478 2086.7 12151.772 61.428898 3623.593 170.0635 533.30756 465.66125 52918.953 1518.6523 90.994156 88.32518 210.0231 87.21439 33.72374 1450.0278	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974 -1.3475283 -0.8448626 -1.2477434 1.2771852 -1.4946 1.6927004 0.86506975 -2.9206693 0.97150755 1.161905 1.4584496 -1.0663613 -0.95201814 -1.3903023 -1.426415 -1.7539726 0.96260905	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775 2164.382 718.00165 15067.982 3888.9697 537.057 498.81067 69.48293 45724.383 187.69763 15160.01 242.85852 489.37372 355.88498 1777.5305 823.9355 476.2764	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696 0.9512086 1.3646593 0.93552804 1.1996636 -0.8063855 1.2303004 -1.579493 -0.8711101 3.0577464 -0.78174305 -1.0803449 -1.5910667 0.92390513 0.70021296 1.269352 1.3925831 1.6159499 -1.1281884	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up 6.5531464 up 3.4351916 up 5.454349 up 4.238549643 down 6.6111465 up 9.661140333 down 3.331518211 down 63.049606 up 3.371172724 down 4.731343661 down 8.279342362 down 3.9731038 up 3.1431935 up 6.3188157 up 7.0567217 up 10.338268 up 4.259834574 down	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 ADORA2A 3.18E-04 PTGS2 4.32E-04 FOLR3 3.66E-04 CXCL2 0.01361669 HIST1H1D 0.00100948 RRAD 3.96E-04 IFI27 0.00168056 DENND1A 9.97E-05 CXCL5 0.00265059 TRPM2 3.96E-04 IFITM2 3.20E-04 RSAD2 0.00251273 SYTL3 0.00617707 SCN9A 2.21E-04 ADAM8 5.67E-05 AMPD3 7.09E-04 SPANXB2 0.00805029 HSPB6
A.24_P183150 A.24_P183150 A.24_P192727 A.24_P212481 A.24_P212481 A.24_P215765 A.24_P228796 A.24_P250922 A.24_P250922 A.24_P250932 A.24_P257416 B.24_P257416 B.24_P277761 B.36_A_24_P27761 B.36_A_24_P27761 B.37_A_24_P2777 B.38_A_24_P287022 B.38_A_24_P287022 B.38_A_24_P287022 B.38_A_24_P287023 B.38_A_24_P287023 B.38_A_24_P287023 B.38_A_24_P287023 B.38_A_24_P287023 B.38_A_24_P300777	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008 239.77066 155.10478 2086.7 12151.772 61.428898 3623.593 170.0635 533.30756 465.66125 52918.953 1518.6523 90.994156 88.32518 210.0231 87.21439 33.72374 1450.0278 6999.1963	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974 -1.3475283 -0.8448626 -1.2477434 1.2771852 -1.4946 1.6927004 0.86506975 -2.9206693 0.97150755 1.161905 1.4584496 -1.0663613 -0.95201814 -1.3903023 -1.426415 -1.7539726 0.96260905 1.1026449	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775 2164.382 718.00165 15067.982 3888.9697 537.057 498.81067 69.48293 45724.383 157.69763 15160.01 242.85852 489.37372 355.88498 1777.5305 823.9355 476.2764 465.52777 2173.519	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696 0.9512086 1.3646593 0.93552804 1.1996636 -0.8063855 1.2303004 -1.579493 -0.8711101 3.0577464 -0.78174305 -1.0803449 -1.5910667 0.92390513 0.70021296 1.269352 1.3925831 1.6159499 -1.1281884 -1.0196424	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up 6.5531464 up 3.4351916 up 5.454349 up 4.238549643 down 6.6111465 up 9.661140333 down 3.331518211 down 63.049606 up 3.371172724 down 4.731343661 down 8.279342362 down 3.9731038 up 3.1431935 up 6.3188157 up 7.0567217 up 10.338268 up 4.259834574 down 4.353836653 down	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 ADORA2A 3.18E-04 PTGS2 4.32E-04 FOLR3 3.66E-04 CXCL2 0.01361669 HIST1H1D 0.00100948 RRAD 3.96E-04 IFI27 0.00168056 DENND1A 9.97E-05 CXCL5 0.00265059 TRPM2 3.96E-04 IFITM2 3.20E-04 RSAD2 0.00251273 SYTL3 0.00617707 SCN9A 2.21E-04 ADAM8 5.67E-05 AMPD3 7.09E-04 SPANXB2 0.00805029 HSPB6 5.05E-04 LY6E
A.24_P183150 A.24_P183150 A.24_P192727 A.24_P212481 A.24_P215765 A.24_P228796 A.24_P237270 A.24_P250922 B.0 A.24_P250922 B.0 A.24_P257416 B.0	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008 239.77066 155.10478 2086.7 12151.772 61.428898 3623.593 170.0635 533.30756 465.66125 52918.953 1518.6523 90.994156 88.32518 210.0231 87.21439 33.72374 1450.0278 6999.1963 896.386	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974 -1.3475283 -0.8448626 -1.2477434 1.2771852 -1.4946 1.6927004 0.86506975 -2.9206693 0.97150755 1.161905 1.4584496 -1.0663613 -0.95201814 -1.3903023 -1.426415 -1.7539726 0.96260905 1.1026449 1.1096716	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775 2164.382 718.00165 15067.982 3888.9697 537.057 498.81067 69.48293 45724.383 187.69763 15160.01 242.85852 489.37372 355.88498 1777.5305 823.9355 476.2764 465.52777 2173.519 259.9377	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696 0.9512086 1.3646593 0.93552804 1.1996636 -0.8063855 1.2303004 -1.579493 -0.8711101 3.0577464 -0.78174305 -1.0803449 -1.5910667 0.92390513 0.70021296 1.269352 1.3925831 1.6159499 -1.1281884 -1.0196424 -1.1155807	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up 6.5531464 up 3.4351916 up 5.454349 up 4.238549643 down 6.6111465 up 9.661140333 down 3.331518211 down 63.049606 up 3.371172724 down 4.731343661 down 8.279342362 down 3.9731038 up 3.1431935 up 6.3188157 up 7.0567217 up 10.338268 up 4.259834574 down 4.353836653 down 4.67592606 down	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 ADORA2A 3.18E-04 PTGS2 4.32E-04 FOLR3 3.66E-04 CXCL2 0.01361669 HIST1H1D 0.00100948 RRAD 3.96E-04 IFI27 0.00168056 DENND1A 9.97E-05 CXCL5 0.00265059 TRPM2 3.96E-04 IFITM2 3.20E-04 RSAD2 0.00251273 SYTL3 0.0061770 SCN9A 2.21E-04 ADAM8 5.67E-05 AMPD3 7.09E-04 SPANXB2 0.00805029 HSPB6 5.05E-04 LY6E 4.82E-05 OAS3
A.24_P183150 A.24_P183150 A.24_P192727 A.24_P212481 A.24_P215765 A.24_P228796 A.24_P237270 A.24_P252996 B.1 A.24_P252996 B.2 A.24_P252996 B.3 A.24_P257416 B.3 A.24_P257416 B.3 A.24_P257416 B.3 A.24_P260639 B.3 A.24_P260639 B.3 A.24_P270460 A.24_P270460 A.24_P270761 B.3 A.24_P270761 B.3 A.24_P27977 B.3 A.24_P287022 B.3 A.24_P287022 B.3 A.24_P287043 A.24_P287043 A.24_P304154 B.3 A.24_P305784 B.3 A.24_P308029 B.3 A.24_P308029 B.3 A.24_P308029 B.3 A.24_P308505 B.3	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008 239.77066 155.10478 2086.7 12151.772 61.42898 3623.593 170.0635 533.30756 465.66125 52918.953 1518.6523 90.994156 88.32518 210.0231 87.21439 33.72374 1450.0278 6999.1963 896.386 170.51007	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974 -1.3475283 -0.8448626 -1.2477434 1.2771852 -1.4946 1.6927004 0.86506975 -2.9206693 0.97150755 1.161905 1.4584496 -1.0663613 -0.95201814 -1.3903023 -1.426415 -1.7539726 0.96260905 1.1026449 1.1096716 -0.9478049	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775 2164.382 718.00165 15067.982 3888.9697 537.057 498.81067 69.48293 15724.383 187.69763 15160.01 242.85852 489.37372 355.88498 1777.5305 823.9355 476.2764 465.52777 2173.519 259.9377 873.10254	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696 0.9512086 1.3646593 0.93552804 1.1996636 -0.8063855 1.2303004 -1.579493 -0.8711101 3.0577464 -0.78174305 -1.0803449 -1.5910667 0.92390513 0.70021296 1.269352 1.3925831 1.6159499 -1.1281884 -1.0196424 -1.1155807 0.9686992	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up 6.5531464 up 3.4351916 up 5.454349 up 4.238549643 down 6.6111465 up 9.661140333 down 3.331518211 down 63.049606 up 3.371172724 down 4.731343661 down 8.279342362 down 3.9731038 up 3.1431935 up 6.3188157 up 7.0567217 up 10.338268 up 4.259834574 down 4.353836653 down 4.67592606 down 3.7750719 up	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 ADORA2A 3.18E-04 PTGS2 4.32E-04 FOLR3 3.66E-04 CXCL2 0.01361669 HIST1H1D 0.00100948 RRAD 3.96E-04 IFI27 0.00168056 DENND1A 9.97E-05 CXCL5 0.00265059 TRPM2 3.96E-04 IFITM2 3.20E-04 RSAD2 0.00251273 SYTL3 0.00617707 SCN9A 2.21E-04 ADAM8 5.67E-05 AMPD3 7.09E-04 SPANXB2 0.00805029 HSPB6 5.05E-04 LY6E 4.82E-05 OAS3 3.26E-04 RUNX1
A.24_P183150 A.24_P183150 A.24_P192727 A.24_P212481 A.24_P215765 A.24_P228796 A.24_P237270 A.24_P252996 B.1 A.24_P252996 B.2 A.24_P252996 B.3 A.24_P257416 B.3 A.24_P257416 B.3 A.24_P260639 B.3 A.24_P260639 B.3 A.24_P260639 B.3 A.24_P27367 B.4 A.24_P277367 B.4 A.24_P277367 B.8 A.24_P277367 B.8 A.24_P278161 A.24_P277367 B.8 A.24_P28722 B.9 A.24_P28722 B.9 A.24_P3005 B.9 A.24_P3005 B.9 A.24_P304154 B.9	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008 239.77066 155.10478 2086.7 12151.772 61.42898 3623.593 170.0635 533.30756 465.66125 52918.953 1518.6523 90.994156 88.32518 210.0231 87.21439 33.72374 1450.0278 699.1963 896.386 170.51007 227.29613	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974 -1.3475283 -0.8448626 -1.2477434 1.2771852 -1.4946 1.6927004 0.86506975 -2.9206693 0.97150755 1.161905 1.4584496 -1.0663613 -0.95201814 -1.3903023 -1.426415 -1.7539726 0.96260905 1.1026449 1.1096716 -0.9478049 -1.0734823	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775 2164.382 718.00165 15067.982 3888.9697 537.057 498.81067 69.48293 45724.383 187.69763 15160.01 242.85852 489.37372 355.88498 1777.5305 823.9355 476.2764 465.52777 2173.519 259.9377 873.10254 1282.1764	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696 0.9512086 1.3646593 0.93552804 1.1996636 -0.8063855 1.2303004 -1.579493 -0.8711101 3.0577464 -0.78174305 -1.0803449 -1.5910667 0.92390513 0.70021296 1.269352 1.3925831 1.6159499 -1.1281884 -1.0196424 -1.1155807 0.9686992 1.0011361	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up 6.5531464 up 3.4351916 up 5.454349 up 4.238549643 down 6.6111465 up 9.661140333 down 3.31518211 down 63.049606 up 3.371172724 down 4.731343661 down 8.279342362 down 3.9731038 up 3.1431935 up 6.3188157 up 7.0567217 up 10.338268 up 4.259834574 down 4.353836653 down 4.67592606 down 3.7750719 up 4.21233 up	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 ADORA2A 3.18E-04 PTGS2 4.32E-04 FOLR3 3.66E-04 CXCL2 0.01361669 HIST1H1D 0.00100948 RRAD 3.96E-04 IFI27 0.00168056 DENND1A 9.97E-05 CXCL5 0.00265059 TRPM2 3.96E-04 IFITM2 3.20E-04 RSAD2 0.00251273 SYTL3 0.00617707 SCN9A 2.21E-04 ADAM8 5.67E-05 AMPD3 7.09E-04 SPANXB2 0.00805029 HSPB6 5.05E-04 LY6E 4.82E-05 OAS3 3.26E-04 RUNX1 5.01E-04 CCDC30
A.24_P183150 A.24_P183150 A.24_P192727 A.24_P212481 A.24_P215765 A.24_P228796 A.24_P237270 A.24_P252996 B.1 A.24_P252996 B.2 A.24_P252996 B.3 A.24_P257416 B.3 A.24_P257416 B.3 A.24_P257416 B.3 A.24_P260639 B.3 A.24_P260639 B.3 A.24_P270460 A.24_P270460 A.24_P270761 B.3 A.24_P270761 B.3 A.24_P27977 B.3 A.24_P287022 B.3 A.24_P287022 B.3 A.24_P287043 A.24_P287043 A.24_P304154 B.3 A.24_P305784 B.3 A.24_P308029 B.3 A.24_P308029 B.3 A.24_P308029 B.3 A.24_P308505 B.3	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008 239.77066 155.10478 2086.7 12151.772 61.42898 3623.593 170.0635 533.30756 465.66125 52918.953 1518.6523 90.994156 88.32518 210.0231 87.21439 33.72374 1450.0278 6999.1963 896.386 170.51007	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974 -1.3475283 -0.8448626 -1.2477434 1.2771852 -1.4946 1.6927004 0.86506975 -2.9206693 0.97150755 1.161905 1.4584496 -1.0663613 -0.95201814 -1.3903023 -1.426415 -1.7539726 0.96260905 1.1026449 1.1096716 -0.9478049	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775 2164.382 718.00165 15067.982 3888.9697 537.057 498.81067 69.48293 15724.383 187.69763 15160.01 242.85852 489.37372 355.88498 1777.5305 823.9355 476.2764 465.52777 2173.519 259.9377 873.10254	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696 0.9512086 1.3646593 0.93552804 1.1996636 -0.8063855 1.2303004 -1.579493 -0.8711101 3.0577464 -0.78174305 -1.0803449 -1.5910667 0.92390513 0.70021296 1.269352 1.3925831 1.6159499 -1.1281884 -1.0196424 -1.1155807 0.9686992	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up 6.5531464 up 3.4351916 up 5.454349 up 4.238549643 down 6.6111465 up 9.661140333 down 3.331518211 down 63.049606 up 3.371172724 down 4.731343661 down 8.279342362 down 3.9731038 up 3.1431935 up 6.3188157 up 7.0567217 up 10.338268 up 4.259834574 down 4.353836653 down 4.67592606 down 3.7750719 up 4.21233 up 3.237374531 down	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 ADORA2A 3.18E-04 PTGS2 4.32E-04 FOLR3 3.66E-04 CXCL2 0.01361669 HIST1H1D 0.00100948 RRAD 3.96E-04 IFI27 0.00168056 DENND1A 9.97E-05 CXCL5 0.00265059 TRPM2 3.96E-04 IFITM2 3.20E-04 RSAD2 0.00251273 SYTL3 0.00617707 SCN9A 2.21E-04 ADAM8 5.67E-05 AMPD3 7.09E-04 SPANXB2 0.00805029 HSPB6 5.05E-04 LY6E 4.82E-05 OAS3 3.26E-04 RUNX1
A.24_P183150 A.24_P183150 A.24_P192727 A.24_P212481 A.24_P215765 A.24_P228796 A.24_P237270 A.24_P252996 B.1 A.24_P252996 B.2 A.24_P257416 B.2 A.24_P257416 B.2 A.24_P260639 B.3 A.24_P260639 B.3 A.24_P260639 B.3 A.24_P277367 B.4 A.24_P277367 B.4 A.24_P277367 B.8 A.24_P277367 B.8 A.24_P278161 A.24_P277367 B.8 A.24_P287022 B.9 A.24_P287022 B.9 A.24_P287025 B.9 A.24_P305784 B.9	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008 239.77066 155.10478 2086.7 12151.772 61.42898 3623.593 170.0635 533.30756 465.66125 52918.953 1518.6523 90.994156 88.32518 210.0231 87.21439 33.72374 1450.0278 699.1963 896.386 170.51007 227.29613	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974 -1.3475283 -0.8448626 -1.2477434 1.2771852 -1.4946 1.6927004 0.86506975 -2.9206693 0.97150755 1.161905 1.4584496 -1.0663613 -0.95201814 -1.3903023 -1.426415 -1.7539726 0.96260905 1.1026449 1.1096716 -0.9478049 -1.0734823	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775 2164.382 718.00165 15067.982 3888.9697 537.057 498.81067 69.48293 45724.383 187.69763 15160.01 242.85852 489.37372 355.88498 1777.5305 823.9355 476.2764 465.52777 2173.519 259.9377 873.10254 1282.1764	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696 0.9512086 1.3646593 0.93552804 1.1996636 -0.8063855 1.2303004 -1.579493 -0.8711101 3.0577464 -0.78174305 -1.0803449 -1.5910667 0.92390513 0.70021296 1.269352 1.3925831 1.6159499 -1.1281884 -1.0196424 -1.1155807 0.9686992 1.0011361	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up 6.5531464 up 3.4351916 up 5.454349 up 4.238549643 down 6.6111465 up 9.661140333 down 3.31518211 down 63.049606 up 3.371172724 down 4.731343661 down 8.279342362 down 3.9731038 up 3.1431935 up 6.3188157 up 7.0567217 up 10.338268 up 4.259834574 down 4.353836653 down 4.67592606 down 3.7750719 up 4.21233 up	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 ADORA2A 3.18E-04 PTGS2 4.32E-04 FOLR3 3.66E-04 CXCL2 0.01361669 HIST1H1D 0.00100948 RRAD 3.96E-04 IFI27 0.00168056 DENND1A 9.97E-05 CXCL5 0.00265059 TRPM2 3.96E-04 IFITM2 3.20E-04 RSAD2 0.00251273 SYTL3 0.00617707 SCN9A 2.21E-04 ADAM8 5.67E-05 AMPD3 7.09E-04 SPANXB2 0.00805029 HSPB6 5.05E-04 LY6E 4.82E-05 OAS3 3.26E-04 RUNX1 5.01E-04 CCDC30
173 A 24 P183150 174 A 24 P197277 175 A 24 P212481 176 A 24 P215765 177 A 24 P228796 178 A 24 P237270 179 A 24 P250922 180 A 24 P250922 180 A 24 P250922 180 A 24 P250922 180 A 24 P260639 181 A 24 P260127 182 A 24 P270460 183 A 24 P270460 184 A 24 P270761 185 A 24 P270761 186 A 24 P270761 187 A 24 P27077 188 A 24 P287043 189 A 24 P287022 190 A 24 P287022 190 A 24 P3005 191 A 24 P3005 192 A 24 P3005784 193 A 24 P3005784 194 A 24 P3005784 195 A 24 P3005784 196 A 24 P3005784 197 A 24 P305784 198 A 24 P308029 199 A 24 P30805	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008 239.77066 155.10478 2086.7 12151.772 61.42898 3623.593 170.0635 533.30756 465.66125 52918.953 1518.6523 90.994156 88.32518 210.0231 87.21439 33.72374 1450.0278 6999.1963 896.386 170.51007 227.29613 1709.3411	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974 -1.3475283 -0.8448626 -1.2477434 1.2771852 -1.4946 1.6927004 0.86506975 -2.9206693 0.97150755 1.161905 1.4584496 -1.0663613 -0.95201814 -1.3903023 -1.426415 -1.7539726 0.96260905 1.1026449 1.1096716 -0.9478049 -1.0734823 0.8535321	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775 2164.382 718.00165 15067.982 3888.9697 537.057 498.81067 69.48293 45724.383 15160.01 242.85852 489.37372 355.88498 1777.5305 823.9355 476.2764 465.52777 259.9377 873.10254 1282.1764 715.89185	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696 0.9512086 1.3646593 0.93552804 1.1996636 -0.8063855 1.2303004 -1.579493 -0.8711101 3.0577464 -0.78174305 -1.0803449 -1.5910667 0.92390513 0.70021296 1.269352 1.3925831 1.6159499 -1.1281884 -1.0196424 -1.1155807 0.9686992 1.0011361 -0.84129214	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up 6.5531464 up 3.4351916 up 5.454349 up 4.238549643 down 6.6111465 up 9.661140333 down 3.331518211 down 63.049606 up 3.371172724 down 4.731343661 down 8.279342362 down 3.9731038 up 3.1431935 up 6.3188157 up 7.0567217 up 10.338268 up 4.259834574 down 4.353836653 down 4.67592606 down 3.7750719 up 4.21233 up 3.237374531 down	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 ADORA2A 3.18E-04 PTGS2 4.32E-04 FOLR3 3.66E-04 CXCL2 0.01361669 HIST1H1D 0.00100948 RRAD 3.96E-04 IFI27 0.00168056 DENND1A 9.97E-05 CXCL5 0.00265059 TRPM2 3.96E-04 IFITM2 3.20E-04 RSAD2 0.00251273 SYTL3 0.00617707 SCN9A 2.21E-04 ADAM8 5.67E-05 AMPD3 7.09E-05 AMPD3 7.09E-04 LY6E 4.82E-05 OAS3 3.26E-04 RUNX1 5.01E-04 CCDC30 4.43E-04 MXRA8
A 24 P183150 A 24 P183150 A 24 P192727 A 24 P212481 A 24 P215765 A 24 P228796 A 24 P250922 B A 24 P250922 B A 24 P250922 B A 24 P257416 A 24 P257416 A 24 P262127 A 24 P262127 A 24 P270460 B A 24 P270460 B A 24 P270460 B A 24 P270460 B A 24 P270761 A 24 P27077 A 24 P27077 A 24 P27077 A 24 P27077 A 24 P300777 A 24 P300784 A 24 P300777 A 24 P300784 A 24 P300787	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008 239.77066 155.10478 2086.7 12151.772 61.428898 3623.593 170.0635 533.30756 465.66125 52918.953 1518.6523 90.994156 88.32518 210.0231 87.21439 33.72374 1450.0278 6999.1963 896.386 170.51007 227.29613 1709.3411	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974 -1.3475283 -0.8448626 -1.2477434 1.2771852 -1.4946 1.6927004 0.86506975 -2.9206693 0.97150755 1.161905 1.4584496 -1.0663613 -0.95201814 -1.3903023 -1.426415 -1.7539726 0.96260905 1.1026449 1.1096716 -0.9478049 -1.0734823 0.8535321 -1.1012056	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775 2164.382 718.00165 15067.982 3888.9697 537.057 498.81067 69.48293 45724.383 187.69763 15160.01 242.85852 489.37372 355.88498 1777.5305 823.9355 476.2764 465.52777 2173.519 259.9377 873.10254 1282.1764 715.89185 25539.59	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696 0.9512086 1.3646593 0.93552804 1.1996636 -0.8063855 1.2303004 -1.579493 -0.8711101 3.0577464 -0.78174305 -1.0803449 -1.5910667 0.92390513 0.70021296 1.269352 1.3925831 1.6159499 -1.1281884 -1.0196424 -1.1155807 0.9686992 1.0011361 -0.84129214 0.9823439	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up 6.5531464 up 3.4351916 up 5.454349 up 4.238549643 down 6.6111465 up 9.661140333 down 3.331518211 down 63.049606 up 3.371172724 down 4.731343661 down 8.279342362 down 3.9731038 up 3.1431935 up 6.3188157 up 7.0567217 up 10.338268 up 4.259834574 down 4.353836653 down 4.67592606 down 3.7750719 up 4.21233 up 3.237374531 down 4.2384872 up	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 ADORA2A 3.18E-04 PTGS2 4.32E-04 FOLR3 3.66E-04 CXCL2 0.01361669 HIST1H1D 0.0010948 RRAD 3.96E-04 IFI27 0.00168056 DENND1A 9.97E-05 CXCL5 0.00265059 TRPM2 3.96E-04 IFITM2 3.20E-04 RSAD2 0.00251273 SYTL3 0.00617707 SCN9A 2.21E-04 ADAM8 5.67E-05 AMPD3 7.09E-04 SPANXB2 0.00805029 HSPB6 5.05E-04 LY6E 4.82E-05 OAS3 3.26E-04 RUNX1 5.01E-04 CCDC30 4.43E-04 MXRA8 0.00347395 SYNGR2
A 24 P183150 A 24 P183150 A 24 P192727 A 24 P212481 A 24 P215765 A 24 P228796 A 24 P250922 A 24 P250922 B A 24 P250922 B A 24 P260639 A 24 P260639 A 24 P27361 B A 24 P270460 B A 24 P270460 B A 24 P270761 B A 24 P270761 B A 24 P27077 B A 24 P27077 B A 24 P27077 B A 24 P287022 B A 24 P287023 B A 24 P300777 B A 24 P300797 B A 24 P300797 B A 24 P300797 B A 24 P300798 B A 24 P300799 B A 24 P349196 B A 24 P349196 B A 24 P378019	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008 239.77066 155.10478 2086.7 12151.772 61.428898 3623.593 170.0635 533.30756 465.66125 52918.953 1518.6523 90.994156 88.32518 210.0231 87.21439 33.72374 1450.0278 6999.1963 896.386 170.51007 227.29613 1709.3411 4415.9688 6269.5527	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974 -1.3475283 -0.8448626 -1.2477434 1.2771852 -1.4946 1.6927004 0.86506975 -2.9206693 0.97150755 1.161905 1.4584496 -1.0663613 -0.95201814 -1.3903023 -1.426415 -1.7539726 0.96260905 1.1026449 1.1096716 -0.9478049 -1.0734823 0.8535321 -1.1012056 1.0317626	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775 2164.382 718.00165 15067.982 3888.9697 537.057 498.81067 69.48293 45724.383 187.69763 15160.01 242.85852 489.37372 355.88498 1777.5305 823.9355 476.2764 465.52777 2173.519 259.9377 873.10254 715.89185 25539.59 2290.5298	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696 0.9512086 1.3646593 0.93552804 1.1996636 -0.8063855 1.2303004 -1.579493 -0.8711101 3.0577464 -0.78174305 -1.0803449 -1.5910667 0.92390513 0.70021296 1.269352 1.3925831 1.6159499 -1.1281884 -1.0196424 -1.1155807 0.9686992 1.0011361 -0.84129214 0.9823439 -0.8537936	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up 6.5531464 up 3.4351916 up 5.454349 up 4.238549643 down 6.6111465 up 9.661140333 down 3.331518211 down 4.731343661 down 8.279342362 down 3.9731038 up 3.1431935 up 6.3188157 up 7.0567217 up 10.338268 up 4.259834574 down 4.353836653 down 4.67592606 down 3.7750719 up 4.21233 up 3.237374531 down 4.2384872 up 3.694953506 down	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 ADORA2A 3.18E-04 PTGS2 4.32E-04 FOLR3 3.66E-04 CXCL2 0.01361669 HIST1H1D 0.00100948 RRAD 3.96E-04 IFI27 0.00168056 DENND1A 9.97E-05 CXCL5 0.00265059 TRPM2 3.96E-04 IFITM2 3.20E-04 RSAD2 0.00251273 SYTL3 0.00617707 SCN9A 2.21E-04 ADAM8 5.67E-05 AMPD3 7.09E-04 SPANXB2 0.00805029 HSPB6 5.05E-04 LY6E 4.82E-05 OAS3 3.26E-04 RUNX1 5.01E-04 CCDC30 4.43E-04 MXRA8 0.00347395 SYNGR2 0.00123935 IRF7
A.24_P183150 A.24_P183150 A.24_P192727 A.24_P212481 A.24_P215765 A.24_P228796 A.24_P259922 B.0 A.24_P259996 B.1 A.24_P259996 B.1 A.24_P257416 B.2 A.24_P257416 B.2 A.24_P257416 B.2 A.24_P257416 B.2 A.24_P257416 B.3 A.24_P260639 B.3 A.24_P260639 B.3 A.24_P260639 B.3 A.24_P277367 B.4 A.24_P277367 B.5 A.24_P277367 B.7 A.24_P277367 B.7 B.7 B.7 B.7 B.7 B.7 B.7 B.7 B.7 B.	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008 239.77066 155.10478 2086.7 12151.772 61.428898 3623.593 170.0635 533.30756 465.66125 52918.953 1518.6523 90.994156 88.32518 210.0231 87.21439 33.72374 1450.0278 6999.1963 896.386 170.51007 227.29613 1709.3411 4415.9688 6269.5527 886.7825 86.54875	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974 -1.3475283 -0.8448626 -1.2477434 1.2771852 -1.4946 1.6927004 0.86506975 -2.9206693 0.97150755 1.161905 1.4584496 -1.0663613 -0.95201814 -1.3903023 -1.426415 -1.7539726 0.96260905 1.1026449 1.1096716 -0.9478049 -1.0734823 0.8535321 -1.1012056 1.0317626 1.1778126 -0.9623138	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775 2164.382 718.00165 15067.982 3888.9697 537.057 498.81067 69.48293 45724.383 187.69763 15160.01 242.85852 489.37372 355.88498 1777.5305 823.9355 476.2764 465.52777 2173.519 259.9377 873.10254 1282.1764 715.89185 25539.59 2290.5298 233.12073 359.88025	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696 0.9512086 1.3646593 0.93552804 1.1996636 -0.8063855 1.2303004 -1.579493 -0.8711101 3.0577464 -0.78174305 -1.0803449 -1.5910667 0.92390513 0.70021296 1.269352 1.3925831 1.6159499 -1.1281884 -1.0196424 -1.1155807 0.9686992 1.0011361 -0.84129214 0.9823439 -0.8537936 -1.180127 0.74038696	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up 6.5531464 up 3.4351916 up 5.454349 up 4.238549643 down 6.6111465 up 9.661140333 down 3.331518211 down 63.049606 up 3.371172724 down 4.731343661 down 8.279342362 down 3.9731038 up 3.1431935 up 6.3188157 up 7.0567217 up 10.338268 up 4.259834574 down 4.353836653 down 4.67592606 down 3.7750719 up 4.21233 up 3.237374531 down 4.2384872 up 3.694953506 down 5.126377509 down 3.2550974 up	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 ADORA2A 3.18E-04 PTGS2 4.32E-04 FOLR3 3.66E-04 CXCL2 0.01361669 HIST1H1D 0.00100948 RRAD 3.96E-04 IFI27 0.00168056 DENND1A 9.97E-05 CXCL5 0.00265059 TRPM2 3.96E-04 IFITM2 3.20E-04 RSAD2 0.00251273 SYTL3 0.00617707 SCN9A 2.21E-04 ADAM8 5.67E-05 AMPD3 7.09E-04 SPANXB2 0.00805029 HSPB6 5.05E-04 LY6E 4.82E-05 OAS3 3.26E-04 RUNX1 5.01E-04 CCDC30 4.43E-04 MXRA8 0.00347395 SYNGR2 0.00123935 IRF7 2.21E-04 ITM2C 0.00908254 C7orf53
A. 24_P183150 A. 24_P183150 A. 24_P192727 A. 24_P212765 A. 24_P215765 A. 24_P228796 A. 24_P250922 A. 24_P250922 A. 24_P250922 A. 24_P250922 A. 24_P25096 B. A. 24_P257416 B. A. 24_P257416 B. A. 24_P257416 B. A. 24_P257416 B. A. 24_P270460 B. B. A. 24_P270460 B. B. A. 24_P270460 B. B	296.12323 6366.581 28.939457 717.15753 2231.6199 24.548008 239.77066 155.10478 2086.7 12151.772 61.428898 3623.593 170.0635 533.307.56 465.66125 52918.953 1518.6523 90.994156 88.32518 210.0231 87.21439 33.72374 1450.0278 6999.1963 896.386 170.51007 227.29613 1709.3411 4415.9688 6269.5527 886.7825	-1.9117328 0.98813725 -1.3184328 1.238466 1.1007512 -0.93598974 -1.3475283 -0.8448626 -1.2477434 1.2771852 -1.4946 1.6927004 0.86506975 -2.9206693 0.97150755 1.161905 1.4584496 -1.0663613 -0.95201814 -1.3903023 -1.426415 -1.7539726 0.96260905 1.1026449 1.1096716 -0.9478049 -1.0734823 0.8535321 -1.1012056 1.0317626 1.1778126	5461.422 2208.664 237.55684 168.60233 681.49384 120.24775 2164.382 718.00165 15067.982 3888.9697 537.057 498.81067 69.48293 45724.383 187.69763 15160.01 242.85852 489.37372 355.88498 1777.5305 823.9355 476.2764 465.52777 2173.519 259.9377 873.10254 1282.1764 715.89185 25539.59 2290.5298 233.12073	1.8802583 -0.9595561 1.2878864 -1.2705084 -1.0409696 0.9512086 1.3646593 0.93552804 1.1996636 -0.8063855 1.2303004 -1.579493 -0.8711101 3.0577464 -0.78174305 -1.0803449 -1.5910667 0.92390513 0.70021296 1.269352 1.3925831 1.6159499 -1.1281884 -1.0196424 -1.11558097 0.9686992 1.0011361 -0.84129214 0.9823439 -0.8537936 -1.180127	13.851701 up 3.857572558 down 6.089481 up 5.692153321 down 4.41288097 down 3.6991615 up 6.5531464 up 3.4351916 up 5.454349 up 4.238549643 down 6.6111465 up 9.661140333 down 3.331518211 down 6.3.049606 up 3.371172724 down 4.731343661 down 8.279342362 down 3.9731038 up 3.1431935 up 6.3188157 up 7.0567217 up 10.338268 up 4.259834574 down 4.353836653 down 4.67592606 down 3.7750719 up 4.21233 up 3.237374531 down 4.2384872 up 3.694953506 down 5.126377509 down 5.126377509 down	2.23E-04 CXCL3 5.01E-04 4.45E-05 MCTP1 4.45E-05 ATP10A 4.97E-04 GAGE7 3.28E-04 ADORA2A 3.18E-04 PTGS2 4.32E-04 FOLR3 3.66E-04 CXCL2 0.01361669 HIST1H1D 0.00100948 RRAD 3.96E-04 IFI27 0.00168056 DENND1A 9.97E-05 CXCL5 0.00265059 TRPM2 3.96E-04 IFITM2 3.20E-04 RSAD2 0.00251273 SYTL3 0.00617707 SCN9A 2.21E-04 ADAM8 5.67E-05 AMPD3 7.09E-04 SPANXB2 0.00805029 HSPB6 5.05E-04 LY6E 4.82E-05 OAS3 3.26E-04 RUNX1 5.01E-04 CCDC30 4.43E-04 MXRA8 0.00347395 SYNGR2 0.00123935 IRF7 2.21E-04 ITM2C

307 A_24_P402080	598.9938	0.7894664	263.84766	-0.7964473	3.001978544 down	3.34E-04 MBP
308 A_24_P402690	5005.3413	1.2035878	1349.141	-1.1015317	4.942083965 down	6.28E-04 ITM2C
309 A_24_P40626	770.99243	1.2769852	191.43483	-1.0989531	5.190733503 down	0.00180618 GREM2
310 A_24_P408047	10913.412	1.3456733	2654.6943	-1.1409464	5.604632206 down	0.00160542 PLEKHA4
311 A_24_P412156	422.1029	1.5233425	69.55138	-1.44469	7.824685113 down	5.38E-04 CXCL12
312 A_24_P44462	1946.0173	-0.8498297	8646.468	0.86152554	3.274683 up	7.99E-04 TPM1
313 A_24_P48204	4895.8477	1.1800833	1419.2075	-1.044719	4.674468386 down	6.79E-04 SECTM1
314 A_24_P48723	6629.6973	1.5675235	932.7063	-1.6803663	9.499751178 down	0.00139437 PTGIS
315 A_24_P55496	757.016	1.2196035	198.131	-1.1551508	5.18647558 down	5.53E-05 OSR2
316 A_24_P557479	226.4415	0.968078	68.12204	-1.0979617	4.187355869 down	0.00540904 XAF1
317 A_24_P64167	4530.9263	0.84405494	1927.6434	-0.7785797	3.079368854 down	0.00102552 PTGS1
318 A_24_P678104	483.9349	1.0778034	148.7251	-1.0560083 0.8248998	4.388754851 down 4.0676613 up	3.02E-05 STMN3 0.00515784 LOC344887
319 A_24_P68908 320 A 24 P691826	45.05803	-1.1992996 -2.2245579	231.90714			0.00204969
321 A_24_P091826	57.1825 31.82106	-1.2441118	1313.1904 242.36224	1.9423814 1.2488314	17.962786 up 5.6292524 up	4.45E-05 PIK3CD
322 A_24_P80204	5660.609	2.4624875	243.99579	-2.5203483	31.62154325 down	7.20E-05 MALL
323 A 24 P827037	162.49008	-1.1370257	1034.4802	1.1319203	4.8197093 up	7.46E-05 LRRC15
323 A_24_F627037	102.43008	-1.13/023/	1034.4602	1.1319203	4.0197093 up	7.40E-03 ENRC13
324 A_24_P870620	345.74457	1.0539503	114.57913	-0.9355626	3.971028961 down	6.18E-04 PTN
325 A_24_P931443	194.93942	-1.6266097	2447.3748	1.5815248	9.241549 up	5.37E-04 GPR68
326 A_24_P941787	244.39998	-0.95539594	1033.2906	0.7644088	3.2939184 up	0.00626153 PRPF4B
327 A_24_P942068	111.291176	-1.1228461	697.486	1.1060293	4.687684 up	3.02E-05 TANC2
328 A_24_P945059	36.61296	-1.2582928	210.07037	0.9171548	4.5172586 up	0.00338923 MYCT1
329 A_24_P945113	259.4331	0.88937473	96.37831	-0.9584875	3.59966382 down	3.28E-04 ACVRL1
330 A_32_P108254	2224.6548	2.78185	59.38501	-2.850159	49.59108924 down	1.67E-04 FAM20A
331 A_32_P108655	80.46853	-1.0342747	462.06586	1.0180476	4.1477313 up	0.00126468 AK3L1
332 A_32_P112493	1499.8673	1.1854408	432.17233	-0.97534037	4.471568982 down	0.00183207 SGK493
333 A_32_P114284	149.12587	-0.94477785	633.59924	0.75671816	3.2523804 up	0.0063214 IKZF2
334 A_32_P119033	325.4973	2.2036679	22.095608	-2.057005	19.16859405 down	1.80E-04 PLCXD3
335 A_32_P125338	129.7524	1.4264559	22.82011	-1.5263147	7.74234408 down	2.16E-04 FAM43B
336 A_32_P142440	351.9913	1.9371437	34.75619	-1.7607801	12.97735076 down	5.92E-04 PCSK9
337 A_32_P157945	58.591484	-1.0215067	294.70184	0.9051378	3.8016994 up	4.80E-04 DSP
338 A_32_P164246	14.785448	-1.9215448	247.84795	1.7253287	12.52617 up	0.00100356 FOXQ1
339 A_32_P164593	758.25793	1.3752155	153.36705	-1.3252777	6.500241419 down	1.36E-04 ZMAT4
340 A_32_P192474	158.37967	1.0861924	59.066116	-0.78389263	3.655541271 down	0.00657842 PRRT1
341 A_32_P196142	1601.5603	-0.9567447	6781.0645	0.6891613	3.1294432 up	0.00806993 LOC100130938
342 A_32_P198731	749.24176	1.7063019	92.54323	-1.721049	10.7580973 down	3.69E-04 NEURL1B
343 A_32_P313405	429.37064	-0.8757596	2099.9048	1.0046077	3.6816878 up	4.62E-04 LAMA1
344 A_32_P32413	226.3146	1.2711802	55.557747	-1.1407217	5.321754614 down	0.0010408 SETBP1
345 A_32_P34444	206.44615	-1.7284204	3029.0156	1.7045002	10.799708 up	5.53E-05 FHOD3
346 A_32_P358887	47.340042	-1.6604047	627.8411	1.6271293	9.764418 up	3.02E-05 SLC4A4
347 A_32_P377880	32.538185	-1.4113393	303.32758	1.3772795	6.9096794 up	4.45E-05 GDNF
348 A_32_P37867	1282.6931	0.9643431	424.32043	-1.0529866	4.048337965 down	2.88E-04 KIAA1644
349 A_32_P54553	198.71811	0.9205463	72.86921	-0.94063354	3.633046335 down	0.00119256 USP41
350 A_32_P57810	153.77017	1.0434375	49.17733	-1.0341905	4.221126587 down	6.02E-05 RNF157
351 A_32_P68504	51.210434	-1.1583745	259.5749	0.82129765	3.9440346 up	0.00548381 ZDBF2
352 A_32_P70315	895.69794	1.1340034	244.0802	-1.1715748	4.943655673 down	4.32E-04 TIMP4
353 A_32_P83049	820.0527	1.1979315	193.0591	-1.3423169	5.816891357 down	3.07E-04 EFR3B
354 A_32_P85676	627.89935	1.3961856	116.98453	-1.4440455	7.161348256 down	2.85E-05 STK32B
355 A_32_P87013	392.09186	-1.6952953	5655.9536	1.7310574	10.750655 up	8.23E-05 IL8
356 A_33_P3214159	569.2901	-1.2797279	4297.2715	1.1812897	5.5060496 up	7.20E-05 CDH2
357 A_33_P3214466	199.76445	0.7313204	88.08407	-0.8766407	3.048207369 down	0.00261613 MESP1
250 A 22 D2014700	270 00047	_1.040050	1060 510	0.06465074	4.01EE007	0.045-04.70011404
358 A_33_P3214720 359 A 33 P3215640	370.88647 4850.002	-1.040953	1968.512	0.96465874	4.0155897 up	9.94E-04 ZC3H12A
		1.308459 1.4099443	1056.1572	-1.2894547	6.054105053 down	8.96E-05 PI16
360 A_33_P3216133 361 A 33 P3219596	151.70483	1.4099443	23.992678	-1.676687 -1.4220216	8.495102022 down 6.517117078 down	0.00176213 ZMAT4 0.00135645 LOC254559
362 A 33 P3220470	460.78134 663.86615	1.2822022	94.806465 145.18814	-1.4220316 -1.3401643	6.111156436 down	1.55E-04 SMAD6
363 A_33_P3220911	6994.054	1.7424119	796.1543	-1.3401643 -1.8296988	11.89357557 down	4.45E-05 BST2
364 A_33_P3223056	210.4913	1.1275092	58.126724	-1.1094732	4.71409975 down	0.00144971 ADAMTS10
365 A_33_P3225512	314.7957	1.5209574	52.93675	-1.4622353	7.907341769 down	1.10E-04 OAS2
366 A_33_P3225522	535.32324	1.0051141	169.78355	-1.0878229	4.266156821 down	3.34E-04 OAS2
367 A 33 P3226212	86.391014	-0.9429573	399.1687	0.8452189	3.45378 up	1.69E-04 JAM2
368 A_33_P3227400	425.83997	1.0914024	113.2775	-1.1364385	4.684324101 down	0.0055206 COL4A4
369 A_33_P3227793	356.96918	0.90481544	125.10407	-0.99437296	3.730032901 down	0.0033200 COL4A4 0.00129663 CGREF1
370 A_33_P3229122	623.2011	0.8588176	268.23874	-0.88860476	3.357581338 down	0.03428638 HIST1H2BF
371 A_33_P3237150	207.14178	-1.2013388	1240.6694	0.95387554	4.454348 up	0.00214323 BMP2
372 A_33_P3238215	332.67487	-0.99824107	1416.7495	0.70773387	3.2624934 up	0.00214323 BMP2 0.00380788 COBLL1
373 A_33_P3238290	14.34531	-1.931422	159.41792	1.3137882	9.482123 up	0.0060587 FAM65C
		-2.6884027	6697.668	2.5737507	38.376564 up	1.22E-04 CES1
374 A_33_P3241269	131.23766					

375 A_33_P3241511	270.31766	-1.0386833	1450.939	0.9378655	3.9355052 up	0.0065481 SERPIND1
376 A_33_P3242733	996.7806	1.2174909	287.82397	-0.9516165	4.4974508 down	0.00172385 SGK493
377 A_33_P3242863	552.0057	0.7953346	242.31812	-0.839877	3.106330951 down	3.99E-04 NT5M
378 A_33_P3243093	47.57673	-0.8348428	236.2221	1.0341091	3.6526713 up	5.89E-04 RGS5
379 A_33_P3243230	29.37938	-1.3749105	207.1229	1.0904353	5.522593 up	0.00191796
380 A_33_P3243449	441.13776	1.5684624	73.350746	-1.4472518	8.087614094 down	4.15E-04 CD70
381 A_33_P3243887	448.34033	-1.565913	5517.2095	1.6008296	8.980168 up	6.14E-04 IL11
382 A_33_P3245178	179.74962	-0.91892076	718.5248	0.67814755	3.0252793 up	0.00435813 BEX2
383 A_33_P3246833	420.9798	-1.635591	5370.9023	1.5734358	9.247266 up	0.00120256 IL1RN
384 A_33_P3248354	255.07973	1.5064688	37.43329	-1.7168065	9.339046277 down	0.00232364 OLFM1
385 A_33_P3248439	412.9301	1.3939798	78.253204	-1.4507866	7.18389566 down	7.82E-04 FAM125B
386 A_33_P3248982	1808.5532	1.2329144	463.44046	-1.173343	5.300973646 down	1.33E-04 FAIM2
387 A_33_P3249534	611.5245	-1.4763739	6050.3984	1.4049437	7.3682275 up	2.16E-04 NEFM
388 A_33_P3249872	11419.395	1.1246264	3399.719	-1.0354857	4.469495869 down	8.81E-05 FBLN1
389 A_33_P3249976	32.857098	-1.2369808	128.99263	0.42593288	3.1665542 up	0.03777026 JAM2
390 A_33_P3251703	20611.22	1.3947625	3736.9277	-1.4910293	7.391113561 down	1.79E-04 CRIP1
391 A 33 P3252286	112685.62	0.8654027	48425.055	-0.7881341	3.146039632 down	2.53E-04 CRLF1
392 A_33_P3252695	3617.6504	1.2032232	1020.3369	-1.0229752	4.678994319 down	0.00199486 CYTL1
393 A_33_P3252781	4128.076	1.0312712	1250.9952	-1.1085277	4.407005852 down	6.52E-04 PLAC9
394 A_33_P3252785	2924.5193	1.1353874	833.29346	-1.098429	4.703766212 down	4.38E-04
395 A_33_P3255304	5761.806	1.1718163	1527.6915	-1.1840298	5.118943778 down	0.00122948 GGT5
396 A_33_P3257678	21027.453	1.2382133	5824.5757	-1.1057124	5.076822478 down	0.00817213 HIST2H3A
397 A 33 P3258617	153.1983	-0.9217051	751.29816	0.9308617	3.6114216 up	8.03E-04
398 A_33_P3262635	822.5578	0.9212756	321.8768	-0.8699992	3.461205853 down	7.88E-04 CECR1
399 A_33_P3265030	2068.6443	1.0255926	684.04486	-1.0112963	4.103596273 down	4.57E-04 5-Sep
400 A 33 P3266025	13.799548	-1.7033689	131.6409	1.222573	7.599697 up	0.00401423 LOC100131431
401 A_33_P3268892	81.0121	-1.0242467	503.7378	1.168916	4.573069 up	6.28E-04
402 A_33_P3268910	700.39154	0.9727578	235.01433	-1.0182614	3.975177402 down	1.91E-04
403 A_33_P3269636	5188.599	0.9694741	1761.3173	-1.0138996	3.954166466 down	8.68E-05 SBSN
404 A 33 P3270311	294.3153	-0.95649934		0.8796389		
			1395.4213		3.57053 up	3.28E-04 HECW2
405 A_33_P3270776	1097.3915	1.3524759	226.41498	-1.3326312	6.431286304 down	6.11E-05 HTRA3
406 A_33_P3271635	210.83083	1.8182515	26.8544	-1.6141601	10.79589963 down	1.53E-04 HLA-DPB1
407 A_33_P3271651	510.9501	1.5511298	89.79592	-1.4025149	7.747038133 down	1.79E-04 HLA-DPB1
408 A_33_P3275500	35.05438	-1.1163945	166.63864	0.78966534	3.7478414 up	0.00720564 LOC400743
	- /4 /		166.63864	0.78966534	3.7478414 up	
409 A_33_P3276713	4297.838	1.4618647	166.63864 816.64716	0.78966534 -1.3809679	3.7478414 up 7.174272771 down	7.20E-05 HGF
409 A_33_P3276713 410 A_33_P3276718	4297.838 2256.4583	1.4618647 0.78284836	166.63864 816.64716 991.91974	0.78966534 -1.3809679 -0.8373735	3.7478414 up 7.174272771 down 3.074223152 down	7.20E-05 HGF 1.39E-04 HGF
409 A_33_P3276713 410 A_33_P3276718 411 A_33_P3280521	4297.838 2256.4583 28.216099	1.4618647 0.78284836 -1.458609	816.64716 991.91974 236.83755	0.78966534 -1.3809679 -0.8373735 1.231132	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L
409 A_33_P3276713 410 A_33_P3276718 411 A_33_P3280521 412 A_33_P3280845	4297.838 2256.4583 28.216099 29953.527	1.4618647 0.78284836 -1.458609 0.9470253	816.64716 991.91974 236.83755 11555.338	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1
409 A_33_P3276713 410 A_33_P3276718 411 A_33_P3280521 412 A_33_P3280845 413 A_33_P3280993	4297.838 2256.4583 28.216099 29953.527 100.96863	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544	166.63864 816.64716 991.91974 236.83755 11555.338 418.29984	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18
409 A.33_P3276713 410 A.33_P3276718 411 A.33_P3280521 412 A.33_P3280845 413 A.33_P3280993 414 A.33_P3283601	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544 1.0713615	166.63864 816.64716 991.91974 236.83755 11555.338 418.29984 4319.835	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LOC389033
409 A.33 P3276713 410 A.33 P3276718 411 A.33 P3280521 412 A.33 P3280845 413 A.33 P3280993 414 A.33 P3283601 415 A.33 P3284404	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127 2063.589	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544 1.0713615 1.106215	816.64716 991.91974 236.83755 11555.338 418.29984 4319.835 602.6704	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626 -1.105061	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down 4.630846942 down	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LOC389033 2.12E-04 SYNGR1
409 A_33_P3276713 410 A_33_P3276718 411 A_33_P3280521 412 A_33_P3280845 413 A_33_P3280993 414 A_33_P3283601 415 A_33_P3284404 416 A_33_P3285545	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127 2063.589 1027.044	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544 1.0713615 1.106215 0.9645872	816.64716 991.91974 236.83755 11555.338 418.29984 4319.835 602.6704 404.83185	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626 -1.105061 -0.82012224	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down 4.630846942 down 3.445490717 down	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LOC389033 2.12E-04 SYNGR1 6.46E-04 CLDN4
409 A_33_P3276713 410 A_33_P3276718 411 A_33_P3280521 412 A_33_P3280845 413 A_33_P3280993 414 A_33_P3283601 415 A_33_P3284404 416 A_33_P3285545 417 A_33_P3287959	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127 2063.589 1027.044 344.43677	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544 1.0713615 1.106215 0.9645872 0.79765356	816.64716 991.91974 236.83755 11555.338 418.29984 4319.835 602.6704 404.83185 149.46686	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626 -1.105061 -0.82012224 -0.8229319	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down 4.630846942 down 3.445490717 down 3.074997844 down	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LCC389033 2.12E-04 SYNGR1 6.46E-04 CLDN4 2.35E-04 RASA4
409 A.33_P3276713 410 A.33_P3276718 411 A.33_P3280521 412 A.33_P3280845 413 A.33_P3280993 414 A.33_P3283601 415 A.33_P3284404 416 A.33_P3285545 417 A.33_P3287959 418 A.33_P3290707	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127 2063.589 1027.044 344.43677 526.25916	1.4618647 0.78284836 -1.458609 0.947025 -0.88032544 1.0713615 1.106215 0.9645872 0.79765356 -0.92190075	816.64716 991.91974 236.83755 11555.338 418.29984 4319.835 602.6704 404.83185 149.46686 2242.844	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626 -1.105061 -0.82012224 -0.8229319 0.77657485	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down 4.630846942 down 3.445490717 down 3.074997844 down 3.2455783 up	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LOC389033 2.12E-04 SYNGR1 6.46E-04 CLDN4 2.35E-04 RASA4 0.00113252 MME
409 A.33_P3276713 410 A.33_P3276718 411 A.33_P3280521 412 A.33_P3280845 413 A.33_P3280893 414 A.33_P3283601 415 A.33_P3283601 416 A.33_P3284545 417 A.33_P3287959 418 A.33_P3290707 419 A.33_P3296497	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127 2063.589 1027.044 344.43677 526.25916 85.442406	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544 1.0713615 1.106215 0.9645872 0.79765356 -0.92190075 -0.9903923	816.64716 991.91974 236.83755 11555.338 418.29984 4319.835 602.6704 404.83185 149.46686 2242.844 343.13086	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626 -1.105061 -0.82012224 -0.8229319 0.77657485 0.6669135	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down 4.630846942 down 3.445490717 down 3.074997844 down 3.2455783 up 3.1542692 up	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LOC389033 2.12E-04 SYNGR1 6.46E-04 CLDN4 2.35E-04 RASA4 0.00113252 MME 0.01327224
409 A.33_P3276713 410 A.33_P3276718 411 A.33_P3280521 412 A.33_P3280845 413 A.33_P3280993 414 A.33_P3280993 415 A.33_P3284404 416 A.33_P3287554 417 A.33_P3287559 418 A.33_P3290707 419 A.33_P3296497 420 A.33_P3298024	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127 2063.589 1027.044 344.43677 526.25916 85.442406 53.506447	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544 1.0713615 1.106215 0.9645872 0.79765356 -0.92190075 -0.9903923 -1.3879558	816.64716 991.91974 236.83755 11555.338 418.29984 4319.835 606.704 404.83185 149.46686 2242.844 343.13086 410.43787	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626 -1.105061 -0.82012224 -0.8229319 0.77657485 0.6669135 1.1037619	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down 4.630846942 down 3.445490717 down 3.074997844 down 3.2455783 up 3.1542692 up 5.6244726 up	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LOC389033 2.12E-04 SYNGR1 6.46E-04 CLDN4 2.35E-04 RASA4 0.00113252 MME 0.01327224 0.00267308 ABCC3
409 A.33_P3276713 410 A.33_P3276718 411 A.33_P3280521 412 A.33_P3280845 413 A.33_P3280993 414 A.33_P3280993 415 A.33_P3284404 416 A.33_P3284404 416 A.33_P3287554 417 A.33_P3287559 418 A.33_P3290707 419 A.33_P3296497 420 A.33_P3298024 421 A.33_P3298159	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127 2063.589 1027.044 344.43677 526.25916 85.442406 53.506447 4615.4546	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544 1.0713615 1.106215 0.9645872 0.79765356 -0.92190075 -0.9903923 -1.3879558 0.98157024	816.64716 991.91974 236.83755 11555.338 418.29984 4319.835 404.83185 149.46686 2242.844 343.13086 410.43787 1837.0425	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626 -1.105061 -0.82012224 -0.8229319 0.77657485 0.6669135 1.1037619 -0.71390533	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down 4.630846942 down 3.445490717 down 3.074997844 down 3.2455783 up 3.1542692 up 5.6244726 up 3.238836395 down	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LOC389033 2.12E-04 SYNGR1 6.46E-04 CLDN4 2.35E-04 RASA4 0.00113252 MME 0.01327224 0.00267308 ABCC3 0.00209978 PTGDS
409 A.33 P3276713 410 A.33 P3276718 411 A.33 P3280521 412 A.33 P3280845 413 A.33 P3280993 414 A.33 P3283601 415 A.33 P3283601 416 A.33 P3287555 417 A.33 P3287559 418 A.33 P3290707 419 A.33 P3296497 420 A.33 P3298159 421 A.33 P3298159 422 A.33 P3298930	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127 2063.589 1027.044 344.43677 526.25916 85.442406 53.506447 4615.4546 530.48065	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544 1.0713615 1.106215 0.9645872 0.79765356 -0.92190075 -0.9903923 -1.3879558 0.98157024 -0.90903497	166.63864 816.64716 991.91974 236.83755 11555.338 418.29984 4319.835 602.6704 404.83185 149.46686 2242.844 343.13086 410.43787 1837.0425 2245.438	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626 -1.105061 -0.82012224 -0.8229319 0.77657485 0.6669135 1.1037619 -0.71390533 0.7324934	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down 4.630846942 down 3.445490717 down 3.2455783 up 3.1542692 up 5.6244726 up 3.238836395 down 3.1199617 up	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LOC389033 2.12E-04 SYNGR1 6.46E-04 CLDN4 2.35E-04 RASA4 0.00113252 MME 0.01327224 0.00267308 ABCC3 0.00209978 PTGDS 0.01774734 LOC389300
409 A.33 P3276713 410 A.33 P3276718 411 A.33 P3280521 412 A.33 P3280845 413 A.33 P3280993 414 A.33 P3283601 415 A.33 P3283601 416 A.33 P3284404 416 A.33 P3287959 418 A.33 P3290707 419 A.33 P3296497 420 A.33 P3298024 421 A.33 P3298930 422 A.33 P3298930 423 A.33 P3298930	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127 2063.589 1027.044 344.43677 526.25916 85.442406 53.506447 4615.4546 530.48065 22.318764	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544 1.0713615 1.106215 0.9645872 0.79765356 -0.92190075 -0.9903923 -1.3879558 0.98157024 -0.90903497 -1.26624	166.63864 816.64716 991.91974 236.83755 11555.338 418.29984 4319.835 602.6704 404.83185 149.46686 2242.844 343.13086 410.43787 1837.0425 2245.438 129.01465	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626 -1.105061 -0.82012224 -0.8229319 0.77657485 0.6669135 1.1037619 -0.71390533 0.7324934 0.92221904	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down 4.630846942 down 3.445490717 down 3.074997844 down 3.2455783 up 3.1542692 up 5.6244726 up 3.238836395 down 3.1199617 up 4.558183 up	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LOC389033 2.12E-04 SYNGR1 6.46E-04 CLDN4 2.35E-04 RASA4 0.00113252 MME 0.01327224 0.00267308 ABCC3 0.00209978 PTGDS 0.01774734 LOC389300 0.00605089 HDAC4
409 A_33_P3276713 410 A_33_P3276718 411 A_33_P3280521 412 A_33_P3280845 413 A_33_P3280803 414 A_33_P3280903 415 A_33_P3284404 416 A_33_P3285545 417 A_33_P3287959 418 A_33_P3290707 419 A_33_P3296497 420 A_33_P3298024 421 A_33_P3298159 422 A_33_P329830 423 A_33_P3301876 424 A_33_P3302125	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127 2063.589 1027.044 344.43677 526.25916 85.442406 53.506447 4615.4546 530.48065	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544 1.0713615 1.106215 0.9645872 0.79765356 -0.92190075 -0.9903923 -1.3879558 0.98157024 -0.90903497 -1.26624 -1.2139733	166.63864 816.64716 991.91974 236.83755 11555.338 418.29984 4319.835 602.6704 404.83185 149.46686 2242.844 343.13086 410.43787 1837.0425 2245.438	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626 -1.105061 -0.82012224 -0.8229319 0.77657485 0.6669135 1.1037619 -0.71390533 0.7324934	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down 4.630846942 down 3.445490717 down 3.2455783 up 3.1542692 up 5.6244726 up 3.238836395 down 3.1199617 up	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LOC389033 2.12E-04 SYNGR1 6.46E-04 CLDN4 2.35E-04 RASA4 0.00113252 MME 0.01327224 0.00267308 ABCC3 0.00209978 PTGDS 0.01774734 LOC389300 0.00605089 HDAC4 0.02459556 LCE2A
409 A.33 P3276713 410 A.33 P3276718 411 A.33 P3280521 412 A.33 P3280845 413 A.33 P3280993 414 A.33 P3283601 415 A.33 P3283601 416 A.33 P3284404 416 A.33 P3287959 418 A.33 P3290707 419 A.33 P3296497 420 A.33 P3298024 421 A.33 P3298930 422 A.33 P3298930 423 A.33 P3298930	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127 2063.589 1027.044 344.43677 526.25916 85.442406 53.506447 4615.4546 530.48065 22.318764	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544 1.0713615 1.106215 0.9645872 0.79765356 -0.92190075 -0.9903923 -1.3879558 0.98157024 -0.90903497 -1.26624	166.63864 816.64716 991.91974 236.83755 11555.338 418.29984 4319.835 602.6704 404.83185 149.46686 2242.844 343.13086 410.43787 1837.0425 2245.438 129.01465	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626 -1.105061 -0.82012224 -0.8229319 0.77657485 0.6669135 1.1037619 -0.71390533 0.7324934 0.92221904	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down 4.630846942 down 3.445490717 down 3.074997844 down 3.2455783 up 3.1542692 up 5.6244726 up 3.238836395 down 3.1199617 up 4.558183 up	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LOC389033 2.12E-04 SYNGR1 6.46E-04 CLDN4 2.35E-04 RASA4 0.00113252 MME 0.01327224 0.00267308 ABCC3 0.00209978 PTGDS 0.01774734 LOC389300 0.00605089 HDAC4
409 A.33_P3276713 410 A.33_P3276718 411 A.33_P3280521 412 A.33_P3280845 413 A.33_P3280993 414 A.33_P3283601 415 A.33_P3283601 416 A.33_P3285545 417 A.33_P3285545 417 A.33_P3280707 419 A.33_P3296497 420 A.33_P3298159 422 A.33_P3298159 422 A.33_P3298159 423 A.33_P3301876 424 A.33_P33012125 425 A.33_P3302245	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127 2063.589 1027.044 344.43677 526.25916 85.442406 53.506447 4615.4546 530.48065 22.318764 168.06772 1511.8201	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544 1.0713615 1.106215 0.9645872 0.79765356 -0.92190075 -0.9903923 -1.3879558 0.98157024 -0.90903497 -1.26624 -1.2139733 0.73337555	166.63864 816.64716 991.91974 236.83755 11555.338 418.29984 4319.835 602.6704 404.83185 149.46686 2242.844 343.13086 410.43787 1837.0425 2245.438 129.01465 1004.0891 673.6803	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626 -1.105061 -0.82012224 -0.8229319 0.77657485 0.6669135 1.1037619 -0.71390533 0.7324934 0.92221904 0.96618986 -0.853848	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down 4.630846942 down 3.445490717 down 3.074997844 down 3.2455783 up 3.1542692 up 5.6244726 up 3.238836395 down 3.1199617 up 4.558183 up 4.532048 up 3.004705399 down	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LOC389033 2.12E-04 SYNGR1 6.46E-04 CLDN4 2.35E-04 RASA4 0.00113252 MME 0.01327224 0.00267308 ABCC3 0.00209978 PTGDS 0.01774734 LOC389300 0.00605089 HDAC4 0.02459556 LCE2A 0.00677361 TMEM59L
409 A.33_P3276713 410 A.33_P3276718 411 A.33_P3280521 412 A.33_P3280845 413 A.33_P3280993 414 A.33_P3283601 415 A.33_P3283601 416 A.33_P3285545 417 A.33_P3287559 418 A.33_P3287559 418 A.33_P3290707 419 A.33_P3298024 420 A.33_P3298159 422 A.33_P3298159 422 A.33_P3301876 424 A.33_P3301275 425 A.33_P3302245	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127 2063.589 1027.044 344.43677 526.25916 85.442406 53.506447 4615.4546 530.48065 22.318764 168.06772	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544 1.0713615 1.106215 0.9645872 0.79765356 -0.92190075 -0.9903923 -1.3879558 0.98157024 -0.90903497 -1.26624 -1.2139733	816.64716 991.91974 236.83755 11555.338 418.29984 4319.835 602.6704 404.83185 149.46686 2242.844 343.13086 410.43787 1837.0425 2245.438 129.01465 1004.0891	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626 -1.105061 -0.82012224 -0.8229319 0.77657485 0.6669135 1.1037619 -0.71390533 0.7324934 0.92221904 0.96618986	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down 4.630846942 down 3.445490717 down 3.074997844 down 3.2455783 up 3.1542692 up 5.6244726 up 3.238836395 down 3.1199617 up 4.558183 up 4.532048 up	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LOC389033 2.12E-04 SYNGR1 6.46E-04 CLDN4 2.35E-04 RASA4 0.00113252 MME 0.01327224 0.00267308 ABCC3 0.00209978 PTGDS 0.01774734 LOC389300 0.00605089 HDAC4 0.02459556 LCE2A
409 A.33_P3276713 410 A.33_P3276718 411 A.33_P3280521 412 A.33_P3280845 413 A.33_P3280993 414 A.33_P3283601 415 A.33_P3283601 416 A.33_P3285545 417 A.33_P3287959 418 A.33_P3287959 418 A.33_P3290707 419 A.33_P3298024 421 A.33_P3298024 421 A.33_P3301876 422 A.33_P3301876 424 A.33_P3301215 425 A.33_P3302245 426 A.33_P3302245	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127 2063.589 1027.044 344.43677 526.25916 85.442406 53.506447 4615.4546 530.48065 22.318764 168.06772 1511.8201	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544 1.0713615 1.106215 0.9645872 0.79765356 -0.92190075 -0.9903923 -1.3879558 0.98157024 -0.90903497 -1.26624 -1.2139733 0.73337555	166.63864 816.64716 991.91974 236.83755 11555.338 418.29984 4319.835 602.6704 404.83185 149.46686 2242.844 343.13086 410.43787 1837.0425 2245.438 129.01465 1004.0891 673.6803	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626 -1.105061 -0.82012224 -0.8229319 0.77657485 0.6669135 1.1037619 -0.71390533 0.7324934 0.92221904 0.96618986 -0.853848	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down 4.630846942 down 3.445490717 down 3.074997844 down 3.2455783 up 3.1542692 up 5.6244726 up 3.238836395 down 3.1199617 up 4.558183 up 4.532048 up 3.004705399 down	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LOC389033 2.12E-04 SYNGR1 6.46E-04 CLDN4 2.35E-04 RASA4 0.00113252 MME 0.01327224 0.00267308 ABCC3 0.00209978 PTGDS 0.01774734 LOC389300 0.00605089 HDAC4 0.02459556 LCE2A 0.00677361 TMEM59L
409 A.33_P3276713 410 A.33_P3276718 411 A.33_P3280521 412 A.33_P3280845 413 A.33_P3280993 414 A.33_P3283601 415 A.33_P3283601 416 A.33_P3285545 417 A.33_P3287559 418 A.33_P3287559 418 A.33_P3290707 419 A.33_P3298024 420 A.33_P3298159 422 A.33_P3298159 422 A.33_P3301876 424 A.33_P3301275 425 A.33_P3302245	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127 2063.589 1027.044 344.43677 526.25916 85.442406 53.506447 4615.4546 530.48065 22.318764 168.06772 1511.8201	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544 1.0713615 1.106215 0.9645872 0.79765356 -0.92190075 -0.9903923 -1.3879558 0.98157024 -0.99003497 -1.26624 -1.2139733 0.73337555	166.63864 816.64716 991.91974 236.83755 11555.338 418.29984 4319.835 602.6704 404.83185 149.46686 2242.844 343.13086 410.43787 1837.0425 2245.438 129.01465 1004.0891 673.6803	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626 -1.105061 -0.82012224 -0.8229319 0.77657485 0.6669135 1.1037619 -0.71390533 0.7324934 0.92221904 0.96618986 -0.853848	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down 4.630846942 down 3.445490717 down 3.074997844 down 3.2455783 up 3.1542692 up 5.6244726 up 3.238836395 down 3.1199617 up 4.558183 up 4.532048 up 3.004705399 down 4.288742689 down	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LOC389033 2.12E-04 SYNGR1 6.46E-04 CLDN4 2.35E-04 RASA4 0.00113252 MME 0.01327224 0.00267308 ABCC3 0.00209978 PTGDS 0.01774734 LOC389300 0.00605089 HDAC4 0.02459556 LCE2A 0.00677361 TMEM59L 0.00581163 HIST1H2BE
409 A.33_P3276713 410 A.33_P3276718 411 A.33_P3280521 412 A.33_P3280845 413 A.33_P3280993 414 A.33_P3283601 415 A.33_P3283601 416 A.33_P3285545 417 A.33_P3287959 418 A.33_P3287959 418 A.33_P3290707 419 A.33_P3298024 421 A.33_P3298024 421 A.33_P3301876 422 A.33_P3301876 424 A.33_P3301215 425 A.33_P3302245 426 A.33_P3302245	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127 2063.589 1027.044 344.43677 526.25916 85.442406 53.506447 4615.4546 530.48065 22.318764 168.06772 1511.8201	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544 1.0713615 1.106215 0.9645872 0.79765356 -0.92190075 -0.9903923 -1.3879558 0.98157024 -0.90903497 -1.26624 -1.2139733 0.73337555	166.63864 816.64716 991.91974 236.83755 11555.338 418.29984 4319.835 602.6704 404.83185 149.46686 2242.844 343.13086 410.43787 1837.0425 2245.438 129.01465 1004.0891 673.6803	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626 -1.105061 -0.82012224 -0.8229319 0.77657485 0.6669135 1.1037619 -0.71390533 0.7324934 0.92221904 0.96618986 -0.853848 -0.96722794 -1.2436887	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down 4.630846942 down 3.445490717 down 3.074997844 down 3.2455783 up 5.6244726 up 5.6244726 up 3.238836395 down 3.1199617 up 4.558183 up 4.532048 up 3.004705399 down 4.288742689 down 5.552341059 down	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LOC389033 2.12E-04 SYNGR1 6.46E-04 CLDN4 2.35E-04 RASA4 0.00113252 MME 0.01327224 0.00267308 ABCC3 0.00209978 PTGDS 0.01774734 LOC389300 0.00605089 HDAC4 0.02459556 LCE2A 0.00677361 TMEM59L 0.00581163 HIST1H2BE 5.28E-05 PLEKHG3
409 A.33 P3276713 410 A.33 P3276718 411 A.33 P3280521 412 A.33 P3280845 413 A.33 P3280993 414 A.33 P3283601 415 A.33 P3283601 416 A.33 P3287555 417 A.33 P3287559 418 A.33 P3297077 419 A.33 P3296497 420 A.33 P3298159 421 A.33 P3298159 422 A.33 P3301876 424 A.33 P3302125 425 A.33 P3302245 426 A.33 P3302245 427 A.33 P3304212 428 A.33 P3304105	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127 2063.589 1027.044 344.43677 526.25916 85.442406 53.506447 4615.4546 530.48065 22.318764 168.06772 1511.8201 755.1238 324.65042 177.93848	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544 1.0713615 1.106215 0.9645872 0.79765356 -0.92190075 -0.9903923 -1.3879558 0.98157024 -0.90903497 -1.26624 -1.2139733 0.73337555 1.1333268 1.2294074 1.0869836	166.63864 816.64716 991.91974 236.83755 11555.338 418.29984 4319.835 602.6704 404.83185 149.46686 2242.844 343.13086 410.43787 1837.0425 2245.438 129.01465 1004.0891 673.6803 241.96672 79.31458 57.29771	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626 -1.105061 -0.822012224 -0.8229319 0.77657485 0.6669135 1.1037619 -0.71390533 0.7324934 0.92221904 0.96618986 -0.853848 -0.96722794 -1.2436887 -0.978552	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down 4.630846942 down 3.445490717 down 3.074997844 down 3.2455783 up 3.1542692 up 5.6244726 up 3.238836395 down 3.1199617 up 4.558183 up 4.532048 up 3.004705399 down 4.288742689 down 5.552341059 down 4.185893172 down	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LOC389033 2.12E-04 SYNGR1 6.46E-04 CLDN4 2.35E-04 RASA4 0.00113252 MME 0.01327224 0.00267308 ABCC3 0.00209978 PTGDS 0.01774734 LOC389300 0.00605089 HDAC4 0.02459556 LCE2A 0.00677361 TMEM59L 0.00581163 HIST1H2BE 5.28E-05 PLEKHG3 4.32E-04 VWA5A
409 A.33 P3276713 410 A.33 P3276718 411 A.33 P3280521 412 A.33 P3280845 413 A.33 P3280893 414 A.33 P3283601 415 A.33 P3283601 416 A.33 P3285545 417 A.33 P3287959 418 A.33 P3290707 419 A.33 P3290707 419 A.33 P3298024 421 A.33 P3298024 421 A.33 P3301876 422 A.33 P3301876 424 A.33 P3302125 425 A.33 P3302245 426 A.33 P3302245 427 A.33 P3304212 428 A.33 P3305105 429 A.33 P3305105 429 A.33 P3312658	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127 2063.589 1027.044 344.43677 526.25916 85.442406 53.506447 4615.4546 530.48065 22.318764 168.06772 1511.8201 755.1238 324.65042 177.93848 16.689577	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544 1.0713615 1.106215 0.9645872 0.79765356 -0.92190075 -0.9903923 -1.3879558 0.98157024 -0.90903497 -1.26624 -1.2139733 0.73337555 1.1333268 1.2294074 1.0869836 -1.8360565	816.64716 991.91974 236.83755 11555.338 418.29984 4319.835 602.6704 404.83185 149.46686 2242.844 343.13086 410.43787 1837.0425 2245.438 129.01465 1004.0891 673.6803 241.96672 79.31458 57.29771 221.49905	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626 -1.105061 -0.82012224 -0.8229319 0.77657485 0.6669135 1.1037619 -0.71390533 0.7324934 0.92221904 0.96618986 -0.853848 -0.96722794 -1.2436887 -0.978552 1.4886837	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down 4.630846942 down 3.445490717 down 3.074997844 down 3.2455783 up 3.1542692 up 5.6244726 up 3.238836395 down 3.1199617 up 4.558183 up 4.532048 up 3.004705399 down 4.288742689 down 5.552341059 down 4.185893172 down 10.019511 up	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LOC389033 2.12E-04 SYNGR1 6.46E-04 CLDN4 2.35E-04 RASA4 0.00113252 MME 0.01327224 0.00267308 ABCC3 0.00209978 PTGDS 0.01774734 LOC389300 0.00605089 HDAC4 0.02459556 LCE2A 0.00677361 TMEM59L 0.00581163 HIST1H2BE 5.28E-05 PLEKHG3 4.32E-04 VWA5A 0.0018633
409 A.33 P3276713 410 A.33 P3276718 411 A.33 P3280521 412 A.33 P3280845 413 A.33 P3283601 415 A.33 P3283601 416 A.33 P32836545 417 A.33 P3287959 418 A.33 P3290707 419 A.33 P3296497 420 A.33 P3298024 421 A.33 P3298159 422 A.33 P3301876 424 A.33 P3302125 425 A.33 P3302245 426 A.33 P3302245 427 A.33 P3304212 428 A.33 P3304212 428 A.33 P3305105 429 A.33 P3315779	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127 2063.589 1027.044 344.43677 526.25916 85.442406 53.506447 4615.4546 530.48065 22.318764 168.06772 1511.8201 755.1238 324.65042 177.93848 16.689577 136.731	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544 1.0713615 1.106215 0.9645872 0.79765356 -0.92190075 -0.9903923 -1.3879558 0.98157024 -0.90903497 -1.26624 -1.2139733 0.73337555 1.1333268 1.2294074 1.0869836 -1.8360565 0.8736584	166.63864 816.64716 991.91974 236.83755 11555.338 418.29984 4319.835 602.6704 404.83185 149.46686 2242.844 343.13086 410.43787 1837.0425 2245.438 129.01465 1004.0891 673.6803 241.96672 79.31458 57.29771 221.49905 58.012848	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626 -1.105061 -0.82012224 -0.8229319 0.77657485 0.6669135 1.1037619 -0.71390533 0.7324934 0.92221904 0.96618986 -0.853848 -0.96722794 -1.2436887 -0.978552 1.4886837 -0.75847626	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down 4.630846942 down 3.445490717 down 3.074997844 down 3.2455783 up 3.1542692 up 5.6244726 up 3.238836395 down 3.1199617 up 4.558183 up 4.532048 up 3.004705399 down 4.288742689 down 5.552341059 down 4.185893172 down 10.019511 up 3.099713122 down	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LOC389033 2.12E-04 SYNGR1 6.46E-04 CLDN4 2.35E-04 RASA4 0.00113252 MME 0.01327224 0.00267308 ABCC3 0.00209978 PTGDS 0.01774734 LOC389300 0.00605089 HDAC4 0.02459556 LCE2A 0.00677361 TMEM59L 0.00581163 HIST1H2BE 5.28E-05 PLEKHG3 4.32E-04 VWASA 0.0018633 0.002131 HERC6
409 A.33_P3276713 410 A.33_P3276718 411 A.33_P3280521 412 A.33_P3280845 413 A.33_P3283601 415 A.33_P3283601 416 A.33_P3285545 417 A.33_P3287959 418 A.33_P3287959 418 A.33_P3290707 419 A.33_P3296497 420 A.33_P3298024 421 A.33_P3298159 422 A.33_P3301876 424 A.33_P3301876 424 A.33_P3302125 425 A.33_P3302245 426 A.33_P3302632 427 A.33_P3304212 428 A.33_P3304212 428 A.33_P3305105 429 A.33_P3315779 431 A.33_P3315779 431 A.33_P3316273	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127 2063.589 1027.044 344.43677 526.25916 85.442406 53.506447 4615.4546 530.48065 22.318764 168.06772 1511.8201 755.1238 324.65042 177.93848 16.689577 136.731 77.81615 716.89453	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544 1.0713615 1.106215 0.9645872 0.79765356 -0.92190075 -0.9903923 -1.3879558 0.98157024 -0.90903497 -1.26624 -1.2139733 0.73337555 1.1333268 1.2294074 1.0869836 -1.8360565 0.8736584 -2.0083365 -1.3055232	166.63864 816.64716 991.91974 236.83755 11555.338 4319.835 602.6704 404.83185 149.46686 2242.844 343.13086 410.43787 103.70425 2245.438 129.01465 1004.0891 673.6803 241.96672 79.31458 57.29771 221.49905 58.012848 1464.8528 4949.828	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626 -1.105061 -0.82012224 -0.8229319 0.77657485 0.6669135 1.1037619 -0.71390533 0.7324934 0.92221904 0.96618986 -0.853848 -0.96722794 -1.2436887 -0.978552 1.4886837 -0.75847626 1.8031902	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down 4.630846942 down 3.445490717 down 3.074997844 down 3.2455783 up 3.1542692 up 5.6244726 up 3.238836395 down 3.1199617 up 4.558183 up 4.532048 up 3.004705399 down 4.288742689 down 5.552341059 down 4.185893172 down 10.019511 up 3.099713122 down 14.040543 up 5.2920694 up	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LOC389033 2.12E-04 SYNGR1 6.46E-04 CLDN4 2.35E-04 RASA4 0.00113252 MME 0.01327224 0.00267308 ABCC3 0.00209978 PTGDS 0.01774734 LOC389300 0.00605089 HDAC4 0.02459556 LCE2A 0.00677361 TMEM59L 0.00581163 HIST1H2BE 5.28E-05 PLEKHG3 4.32E-04 VWA5A 0.0018633 0.002131 HERC6 0.00180934 CCL3
409 A.33_P3276713 410 A.33_P3276718 411 A.33_P3280521 412 A.33_P3280845 413 A.33_P3280993 414 A.33_P3283601 415 A.33_P3284404 416 A.33_P3285545 417 A.33_P3287599 418 A.33_P3287959 418 A.33_P3290707 419 A.33_P329024 421 A.33_P3298024 421 A.33_P3298024 421 A.33_P3398030 422 A.33_P3302125 425 A.33_P3302125 426 A.33_P3302245 427 A.33_P3302632 427 A.33_P3304212 428 A.33_P3304212 428 A.33_P3305105 429 A.33_P3316539 431 A.33_P3316539 433 A.33_P3316539 433 A.33_P3316539	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127 2063.589 1027.044 344.43677 526.25916 85.442406 53.506447 4615.4546 530.48065 22.318764 168.06772 1511.8201 755.1238 324.65042 177.93848 16.689577 136.731 77.81615 716.89453 2512.8196	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544 1.0713615 1.106215 0.9645872 0.79765356 -0.92190075 -0.9903923 -1.3879558 0.98157024 -0.90903497 -1.26624 -1.2139733 0.73337555 1.1333268 1.2294074 1.0869836 -1.8360565 0.8736584 -2.0083365 -1.3055232 -1.0518196	166.63864 816.64716 991.91974 236.83755 11555.338 4319.835 602.6704 404.83185 149.46686 2242.844 343.13086 410.43787 1837.0425 2245.438 129.01465 1004.0891 673.6803 241.96672 79.31458 57.29771 221.49905 58.012848 1464.8528 4949.828 14183.905	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626 -1.105061 -0.82012224 -0.8229319 0.77657485 0.6669135 1.1037619 -0.71390533 0.7324934 0.92221904 0.96618986 -0.853848 -0.978552 1.4886837 -0.978552 1.4886837 -0.75847626 1.8031902 1.0983088 1.0303297	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down 4.630846942 down 3.445490717 down 3.074997844 down 3.2455783 up 3.1542692 up 5.6244726 up 3.238836395 down 3.1199617 up 4.558183 up 4.532048 up 3.004705399 down 4.288742689 down 5.552341059 down 4.185893172 down 10.019511 up 3.099713122 down 14.040543 up 5.2920694 up 4.2343755 up	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LOC389033 2.12E-04 SYNGR1 6.46E-04 CLDN4 2.35E-04 RASA4 0.00113252 MME 0.01327224 0.00267308 ABCC3 0.00209978 PTGDS 0.01774734 LOC389300 0.00605089 HDAC4 0.02459556 LCE2A 0.00677361 TMEM59L 0.00581163 HIST1H2BE 5.28E-05 PLEKHG3 4.32E-04 VWA5A 0.0018633 0.002131 HERC6 0.00180934 CCL3 6.93E-04 SLC7A2 1.72E-04 PLOD2
409 A.33_P3276713 410 A.33_P3276718 411 A.33_P3280521 412 A.33_P3280845 413 A.33_P3280993 414 A.33_P3283601 415 A.33_P3283601 416 A.33_P3285545 417 A.33_P3287959 418 A.33_P3287959 418 A.33_P3290707 419 A.33_P3298024 421 A.33_P3298024 421 A.33_P3298024 421 A.33_P3308159 422 A.33_P3301876 424 A.33_P3301225 425 A.33_P3302245 426 A.33_P3302245 427 A.33_P3304212 428 A.33_P3305105 429 A.33_P3315779 431 A.33_P3316539 431 A.33_P3316539 433 A.33_P3316539 433 A.33_P3318581 434 A.33_P3320538	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127 2063.589 1027.044 344.43677 526.25916 85.442406 53.506447 4615.4546 530.48065 22.318764 168.06772 1511.8201 755.1238 324.65042 177.93848 16.689577 136.731 77.81615 716.89453 2512.8196 54.335045	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544 1.0713615 1.106215 0.9645872 0.79765356 -0.92190075 -0.9903923 -1.3879558 0.98157024 -0.90903497 -1.26624 -1.2139733 0.73337555 1.1333268 1.2294074 1.0869836 -1.3652522 -1.0518196 -1.0286744	166.63864 816.64716 991.91974 236.83755 11555.338 418.29984 4319.835 602.6704 404.83185 149.46686 2242.844 343.13086 410.43787 1837.0425 2245.438 129.01465 1004.0891 673.6803 241.96672 79.31458 57.29771 221.49905 58.2974 241.8484 4949.828 14183.905 246.52881	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626 -1.105061 -0.82012224 -0.8229319 0.77657485 0.6669135 1.1037619 -0.71390533 0.7324934 0.92221904 0.96618986 -0.853848 -0.9782794 -1.2436887 -0.978552 1.4886837 -0.75847626 1.8031902 1.0983088 1.0303297 0.77937603	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down 4.630846942 down 3.445490717 down 3.074997844 down 3.2455783 up 5.6244726 up 5.6244726 up 3.238836395 down 3.1199617 up 4.558183 up 4.532048 up 3.004705399 down 4.288742689 down 5.552341059 down 4.185893172 down 10.019511 up 3.099713122 down 14.040543 up 5.2920694 up 4.2343755 up 3.5016875 up	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LOC389033 2.12E-04 SYNGR1 6.46E-04 CLDN4 2.35E-04 RASA4 0.00113252 MME 0.01327224 0.00267308 ABCC3 0.00209978 PTGDS 0.01774734 LOC389300 0.00605089 HDAC4 0.02459556 LCE2A 0.00677361 TMEM59L 0.00581163 HIST1H2BE 5.28E-05 PLEKHG3 4.32E-04 VWA5A 0.0018633 0.002131 HERC6 0.00180934 CCL3 6.93E-04 PLOD2 0.00709111
409 A.33_P3276713 410 A.33_P3276718 411 A.33_P3280521 412 A.33_P3280845 413 A.33_P3280893 414 A.33_P3283601 415 A.33_P3285545 417 A.33_P3285545 417 A.33_P3285545 417 A.33_P3286497 420 A.33_P3298024 421 A.33_P3298159 422 A.33_P3298159 422 A.33_P3298159 422 A.33_P3298150 423 A.33_P3301876 424 A.33_P3301876 424 A.33_P3301245 425 A.33_P3302245 426 A.33_P3305105 427 A.33_P3316539 438 A.33_P3316539 439 A.33_P3318581 430 A.33_P3318581 431 A.33_P33255704	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127 2063.589 1027.044 344.43677 526.25916 85.442406 53.506447 4615.4546 530.48065 22.318764 168.06772 1511.8201 755.1238 324.65042 177.93848 16.689577 136.731 77.81615 716.89453 2512.8196 54.335045 27.546455	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544 1.0713615 1.106215 0.9645872 0.79765356 -0.92190075 -0.9903923 -1.3879558 0.98157024 -0.90903497 -1.26624 -1.2139733 0.73337555 1.1333268 1.2294074 1.0869836 -1.8360556 0.8736584 -2.0083365 -1.3055232 -1.0518196 -1.0286744 -1.5926542	166.63864 816.64716 991.91974 236.83755 11555.338 418.29984 4319.835 602.6704 404.83185 149.46686 2242.844 343.13086 410.43787 1837.0425 2245.438 129.01465 1004.0891 673.6803 241.96672 79.31458 57.29771 221.49905 58.012848 4464.8528 44949.828 14183.905 246.52881 337.6577	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626 -1.105061 -0.822012224 -0.8229319 0.77657485 0.6669135 1.1037619 -0.71390533 0.7324934 0.92221904 0.96618986 -0.853848 -0.978552 1.4886837 -0.978552 1.4886837 -0.75847626 1.8031902 1.0983088 1.0303297 0.77937603 1.5796461	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down 4.630846942 down 3.445490717 down 3.074997844 down 3.2455783 up 5.6244726 up 5.6244726 up 3.238836395 down 3.1199617 up 4.558183 up 4.532048 up 3.004705399 down 4.288742689 down 5.552341059 down 4.185893172 down 10.019511 up 3.099713122 down 14.040543 up 5.2920694 up 4.2343755 up 3.5016875 up 9.014831 up	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LOC389033 2.12E-04 SYNGR1 6.46E-04 CLDN4 2.35E-04 RASA4 0.00113252 MME 0.01327224 0.00267308 ABCC3 0.00209978 PTGDS 0.01774734 LOC389300 0.00605089 HDAC4 0.02459556 LCE2A 0.00677361 TMEM59L 0.00581163 HIST1H2BE 5.28E-05 PLEKHG3 4.32E-04 VWA5A 0.0018633 0.002131 HERC6 0.00180934 CCL3 6.93E-04 SLC7A2 1.72E-04 PLOD2 0.00709111 1.38E-04 SPRR2E
409 A.33 P3276713 410 A.33 P3276718 411 A.33 P3280521 412 A.33 P3280845 413 A.33 P3283601 415 A.33 P3283601 416 A.33 P3284404 416 A.33 P3287555 417 A.33 P3287559 418 A.33 P3290707 419 A.33 P3298159 420 A.33 P3298159 421 A.33 P3298159 422 A.33 P3301876 424 A.33 P3301876 424 A.33 P3301876 424 A.33 P3301876 424 A.33 P3302632 427 A.33 P3302245 426 A.33 P3305105 429 A.33 P3316539 430 A.33 P3316539 431 A.33 P3316539 432 A.33 P3316539 433 A.33 P3316539 434 A.33 P3325704 436 A.33 P3325704 436 A.33 P3325704	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127 2063.589 1027.044 344.43677 526.25916 85.442406 53.506447 4615.4546 530.48065 22.318764 168.06772 1511.8201 755.1238 324.65042 177.93848 16.689577 136.731 77.81615 716.89453 2512.8196 54.335045 27.546455 979.5388	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544 1.0713615 1.106215 0.9645872 0.79765356 -0.92190075 -0.9903923 -1.3879558 0.98157024 -0.90903497 -1.26624 -1.2139733 0.73337555 1.1333268 1.2294074 1.0869836 -1.8360565 0.8736584 -2.0083365 -1.3055232 -1.0518196 -1.0286744 -1.5926542 -1.0839813	166.63864 816.64716 991.91974 236.83755 11555.338 418.29984 4319.835 602.6704 404.83185 149.46686 2242.844 343.13086 410.43787 1837.0425 2245.438 129.01465 1004.0891 673.6803 241.96672 79.31458 57.29771 221.49905 58.012848 1464.8528 4949.828 4949.828 414183.905 246.52881 337.6577 4880.2	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626 -1.105061 -0.82012224 -0.8229319 0.77657485 0.6669135 1.1037619 -0.71390533 0.7324934 0.92221904 0.96618986 -0.853848 -0.96722794 -1.2436887 -0.978552 1.4886837 -0.75847626 1.8031902 1.0983088 1.0303297 0.77937603 1.5796461 0.8323147	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down 4.630846942 down 3.445490717 down 3.074997844 down 3.2455783 up 3.1542692 up 5.6244726 up 3.238836395 down 3.1199617 up 4.558183 up 4.532048 up 3.004705399 down 4.288742689 down 5.552341059 down 4.185893172 down 10.019511 up 3.099713122 down 10.019511 up 3.099713122 down 14.040543 up 5.2920694 up 4.2343755 up 3.5016875 up 9.014831 up 3.7745273 up	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LOC389033 2.12E-04 SYNGR1 6.46E-04 CLDN4 2.35E-04 RASA4 0.00113252 MME 0.01327224 0.00267308 ABCC3 0.00209978 PTGDS 0.01774734 LOC389300 0.00605089 HDAC4 0.02459556 LCE2A 0.00677361 TMEM59L 0.00581163 HIST1H2BE 5.28E-05 PLEKHG3 4.32E-04 VWA5A 0.0018633 0.002131 HERC6 0.00180934 CCL3 6.93E-04 SLC7A2 1.72E-04 PLOD2 0.00709111 1.38E-04 SPRR2E 0.00360391 TNFRSF10D
409 A.33 P3276713 410 A.33 P3276718 411 A.33 P3280521 412 A.33 P3280845 413 A.33 P3283601 415 A.33 P3283601 416 A.33 P3284404 416 A.33 P3287959 418 A.33 P3290707 419 A.33 P3290707 419 A.33 P3298024 421 A.33 P3298024 421 A.33 P3298930 423 A.33 P3301876 424 A.33 P3302125 425 A.33 P3302245 426 A.33 P3302245 427 A.33 P3305105 429 A.33 P3316539 431 A.33 P3316579 431 A.33 P3316577 431 A.33 P3316573 432 A.33 P3316539 433 A.33 P3316573 434 A.33 P3316573 435 A.33 P3316539 437 A.33 P3326588 437 A.33 P3326588	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127 2063.589 1027.044 344.43677 526.25916 85.442406 53.506447 4615.4546 530.48065 22.318764 168.06772 1511.8201 755.1238 324.65042 177.93848 16.689577 136.731 77.81615 716.89453 2512.8196 54.335045 27.546455 979.5388 1349.3716	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544 1.0713615 1.106215 0.9645872 0.79765356 -0.92190075 -0.9903923 -1.3879558 0.98157024 -0.90903497 -1.26624 -1.2139733 0.73337555 1.1333268 1.2294074 1.0869836 -1.8360565 0.8736584 -2.0083365 -1.3055232 -1.0518196 -1.0286744 -1.5926542 -1.0839813 1.8115995	166.63864 816.64716 991.91974 236.83755 11555.338 418.29984 4319.835 602.6704 404.83185 149.46686 2242.844 343.13086 410.43787 1837.0425 2245.438 129.01465 1004.0891 673.6803 241.96672 79.31458 57.29771 221.49905 58.012848 1464.8528 4949.828 14183.905 246.52881 337.6577 4880.2 177.11375	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626 -1.105061 -0.82012224 -0.8229319 0.77657485 0.6669135 1.1037619 -0.71390533 0.7324934 0.92221904 0.96618986 -0.853848 -0.978552 1.4886837 -0.978552 1.4886837 -0.75847626 1.8031902 1.0983088 1.0303297 0.77937603 1.5796461 0.8323147 -1.4728763	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down 4.630846942 down 3.445490717 down 3.074997844 down 3.2455783 up 3.1542692 up 5.6244726 up 3.238836395 down 3.1199617 up 4.558183 up 4.532048 up 3.004705399 down 4.288742689 down 5.552341059 down 4.185893172 down 10.019511 up 3.099713122 down 14.040543 up 5.2920694 up 4.2343755 up 9.014831 up 3.7745273 up 9.743741546 down	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LOC389033 2.12E-04 SYNGR1 6.46E-04 CLDN4 2.35E-04 RASA4 0.00113252 MME 0.01327224 0.00267308 ABCC3 0.00209978 PTGDS 0.01774734 LOC389300 0.00605089 HDAC4 0.02459556 LCE2A 0.00677361 TMEM59L 0.00581163 HIST1H2BE 5.28E-05 PLEKHG3 4.32E-04 VWA5A 0.0018633 0.002131 HERC6 0.00180934 CCL3 6.93E-04 SLC7A2 1.72E-04 PLOD2 0.00709111 1.38E-04 SPRR2E 0.00360391 TNFRSF10D 0.00237795 HBG1
409 A.33 P3276713 410 A.33 P3276718 411 A.33 P3280521 412 A.33 P3280845 413 A.33 P3283601 415 A.33 P3283601 416 A.33 P3284404 416 A.33 P3287959 418 A.33 P3287959 418 A.33 P3290707 419 A.33 P3296497 420 A.33 P3296497 420 A.33 P3298024 421 A.33 P3298159 422 A.33 P3301876 424 A.33 P3302125 425 A.33 P3302125 425 A.33 P3302125 426 A.33 P3305105 427 A.33 P3305105 429 A.33 P3316579 431 A.33 P3316579 431 A.33 P3316579 431 A.33 P3316539 433 A.33 P3318581 434 A.33 P3320538 435 A.33 P3325704 436 A.33 P3329078 438 A.33 P3329078 438 A.33 P3329078 438 A.33 P3329078	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127 2063.589 1027.044 344.43677 526.25916 85.442406 53.506447 4615.4546 530.48065 22.318764 168.06772 1511.8201 755.1238 324.65042 177.93848 16.689577 136.731 77.81615 716.89453 2512.8196 54.335045 27.546455 979.5388 1349.3716 132.42297	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544 1.0713615 1.106215 0.9645872 0.79765356 -0.92190075 -0.9903923 -1.3879558 0.98157024 -0.9903497 -1.26624 -1.2139733 0.73337555 1.1333268 1.2294074 1.0869836 -1.8360565 0.8736584 -2.0083365 -1.3055232 -1.0518196 -1.0286744 -1.5926542 -1.0839813 1.8115995 0.924122	166.63864 816.64716 991.91974 236.83755 11555.338 418.29984 4319.835 602.6704 404.83185 149.46686 2242.844 343.13086 410.43787 1837.0425 2245.438 129.01465 1004.0891 673.6803 241.96672 79.31458 57.29771 221.49905 58.012848 1464.8528 4949.828 14183.905 246.52881 337.6577 4880.2 177.11375 45.938103	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626 -1.105061 -0.822012224 -0.8229319 0.77657485 0.6669135 1.1037619 -0.71390533 0.7324934 0.92221904 0.96618986 -0.853848 -0.978552 1.4886837 -0.978552 1.4886837 -0.75847626 1.8031902 1.0983088 1.0303297 0.77937603 1.5796461 0.8323147 -1.4728763 -1.0437912	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down 4.630846942 down 3.445490717 down 3.074997844 down 3.2455783 up 3.1542692 up 5.6244726 up 3.238836395 down 3.1199617 up 4.558183 up 4.532048 up 3.004705399 down 4.288742689 down 5.552341059 down 4.185893172 down 10.019511 up 3.099713122 down 14.040543 up 5.2920694 up 4.2343755 up 3.5016875 up 9.014831 up 3.7745273 up 9.743741546 down 3.912018699 down	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LOC389033 2.12E-04 SYNGR1 6.46E-04 CLDN4 2.35E-04 RASA4 0.00113252 MME 0.01327224 0.00267308 ABCC3 0.00209978 PTGDS 0.01774734 LOC389300 0.00605089 HDAC4 0.02459556 LCE2A 0.00677361 TMEM59L 0.00581163 HIST1H2BE 5.28E-05 PLEKHG3 4.32E-04 VWA5A 0.0018633 0.002131 HERC6 0.00180934 CCL3 6.93E-04 SLC7A2 1.72E-04 PLOD2 0.00709111 1.38E-04 SPRR2E 0.00360391 TNFRSF10D 0.00237795 HBG1 0.00360391 5-Sep
409 A.33 P3276713 410 A.33 P3276718 411 A.33 P3280521 412 A.33 P3280845 413 A.33 P3283801 415 A.33 P3283801 416 A.33 P32835051 417 A.33 P3287959 418 A.33 P3296497 420 A.33 P3296497 420 A.33 P3298024 421 A.33 P3298024 422 A.33 P3301876 424 A.33 P3301876 424 A.33 P3302125 425 A.33 P3302525 426 A.33 P3316273 427 A.33 P331658 430 A.33 P3315779 431 A.33 P3316539 433 A.33 P3316539 434 A.33 P3325704 436 A.33 P3325704 436 A.33 P3329778 437 A.33 P3329686 439 A.33 P3329686 439 A.33 P3329686	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127 2063.589 1027.044 344.43677 526.25916 85.442406 53.506447 4615.4546 530.48065 22.318764 168.06772 1511.8201 755.1238 324.65042 177.93848 16.689577 136.731 77.81615 716.89453 2512.8196 54.335045 27.546455 979.5388 1349.3716 132.42297 5449.401	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544 1.0713615 1.106215 0.9645872 0.79765356 -0.92190075 -0.9903923 -1.3879558 0.98157024 -0.90903497 -1.26624 -1.2139733 0.73337555 1.1333268 1.2294074 1.0869836 -1.3365565 0.8736584 -2.0083365 -1.3055232 -1.0518196 -1.0286744 -1.5926542 -1.0839813 1.8115995 0.924122 -0.9327204	166.63864 816.64716 991.91974 236.83755 11555.338 418.29984 4319.835 602.6704 404.83185 149.46686 2242.844 343.13086 410.43787 1837.0425 2245.438 129.01465 1004.0891 673.6803 241.96672 79.31458 57.29771 221.49905 58.012848 1464.8528 4949.828 14183.905 246.52881 337.6577 4880.2 177.11375 45.938103 25376.72	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626 -1.105061 -0.82012224 -0.8229319 0.77657485 0.6669135 1.1037619 -0.71390533 0.7324934 0.92221904 0.96618986 -0.853848 -0.978552 1.4886837 -0.978552 1.4886837 -0.75847626 1.8031902 1.0983088 1.0303297 0.77937603 1.5796461 0.8323147 -1.4728763 -1.0437912 0.885607	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down 4.630846942 down 3.445490717 down 3.074997844 down 3.2455783 up 3.1542692 up 5.6244726 up 3.238836395 down 3.1199617 up 4.558183 up 4.532048 up 3.004705399 down 4.288742689 down 5.552341059 down 4.185893172 down 10.019511 up 3.099713122 down 14.040543 up 5.2920694 up 4.2343755 up 3.5016875 up 9.014831 up 3.7745273 up 9.743741546 down 3.912018699 down 3.526721 up	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LOC389033 2.12E-04 SYNGR1 6.46E-04 CLDN4 2.35E-04 RASA4 0.00113252 MME 0.01327224 0.00267308 ABCC3 0.00209978 PTGDS 0.01774734 LOC389300 0.00605089 HDAC4 0.02459556 LCE2A 0.00677361 TMEM59L 0.00581163 HIST1H2BE 5.28E-05 PLEKHG3 4.32E-04 VWA5A 0.0018633 0.002131 HERC6 0.00180934 CCL3 6.93E-04 SLC7A2 1.72E-04 PLOD2 0.00709111 1.38E-04 SPRR2E 0.00360391 TNFRSF10D 0.00237795 HBG1 0.00360391 5-Sep
409 A.33_P3276713 410 A.33_P3276718 411 A.33_P3280521 412 A.33_P3280845 413 A.33_P3280993 414 A.33_P3283601 415 A.33_P3284404 416 A.33_P3285545 417 A.33_P3287959 418 A.33_P32890707 419 A.33_P3290707 419 A.33_P3298024 421 A.33_P3298024 421 A.33_P3298024 422 A.33_P3298159 422 A.33_P3301876 424 A.33_P3301876 424 A.33_P3302125 425 A.33_P3302532 427 A.33_P3302632 427 A.33_P3315779 431 A.33_P3316539 430 A.33_P3316539 431 A.33_P3325704 432 A.33_P3325704 433 A.33_P3325704 434 A.33_P3325708 435 A.33_P3325708 436 A.33_P3325708 437 A.33_P3325658 438 A.33_P3329078 438 A.33_P3329686 439 A.33_P3329686 439 A.33_P3329686 439 A.33_P3329686 439 A.33_P3329686 439 A.33_P3320638	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127 2063.589 1027.044 344.43677 526.25916 85.442406 53.506447 4615.4546 530.48065 22.318764 168.06772 1511.8201 755.1238 324.65042 177.93848 16.689577 136.731 77.81615 716.89453 2512.8196 54.335045 27.546455 979.5388 1349.3716 132.42297 5449.401 35.538223	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544 1.0713615 1.106215 0.9645872 0.79765356 -0.92190075 -0.9903923 -1.3879558 0.98157024 -0.90903497 -1.26624 -1.2139733 0.73337555 1.1333268 1.2294074 1.0869836 -1.3360565 0.8736584 -2.0083365 -1.3055232 -1.0518196 -1.0286744 -1.5926544 -1.0839813 1.8115995 0.924122 -0.9327204 -1.8033634	166.63864 816.64716 991.91974 236.83755 11555.338 4319.835 602.6704 404.83185 149.46686 2242.844 343.13086 410.43787 1837.0425 2245.438 129.01465 1004.0891 673.6803 241.96672 79.31458 57.29771 221.49905 58.012848 1464.8528 4949.828 14183.905 246.52881 337.6577 4880.2 177.11375 45.938103 25376.72 556.0937	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626 -1.105061 -0.82012224 -0.8229319 0.77657485 0.6669135 1.1037619 -0.71390533 0.7324934 0.92221904 0.96618986 -0.853848 -0.96722794 -1.2436887 -0.978552 1.4886837 -0.75847626 1.8031902 1.0983088 1.0303297 0.77937603 1.5796461 0.8323147 -1.4728763 -1.0437912 0.885607 1.7212648	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down 4.630846942 down 3.445490717 down 3.074997844 down 3.2455783 up 3.1542692 up 5.6244726 up 3.238836395 down 3.1199617 up 4.558183 up 4.532048 up 3.004705399 down 4.288742689 down 5.552341059 down 4.185893172 down 10.019511 up 3.099713122 down 14.040543 up 5.2920694 up 4.2343755 up 3.5016875 up 9.014831 up 3.7745273 up 9.743741546 down 3.912018699 down 3.526721 up 11.508504 up	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LOC389033 2.12E-04 SYNGR1 6.46E-04 CLDN4 2.35E-04 RASA4 0.00113252 MME 0.01327224 0.00267308 ABCC3 0.00209978 PTGDS 0.01774734 LOC389300 0.00605089 HDAC4 0.02459556 LCE2A 0.00677361 TMEM59L 0.00581163 HIST1H2BE 5.28E-05 PLEKHG3 4.32E-04 VWA5A 0.0018633 0.002131 HERC6 0.00180934 CCL3 6.93E-04 SLC7A2 1.72E-04 PLOD2 0.00709111 1.38E-04 SPRR2E 0.00360391 TNFRSF10D 0.00237795 HBG1 0.00360391 5-Sep
409 A.33 P3276713 410 A.33 P3276718 411 A.33 P3280521 412 A.33 P3280845 413 A.33 P3283801 415 A.33 P3283801 416 A.33 P32835051 417 A.33 P3287959 418 A.33 P3296497 420 A.33 P3296497 420 A.33 P3298024 421 A.33 P3298024 422 A.33 P3301876 424 A.33 P3301876 424 A.33 P3302125 425 A.33 P3302525 426 A.33 P3316273 427 A.33 P331658 430 A.33 P3315779 431 A.33 P3316539 433 A.33 P3316539 434 A.33 P3325704 436 A.33 P3325704 436 A.33 P3329778 437 A.33 P3329686 439 A.33 P3329686 439 A.33 P3329686	4297.838 2256.4583 28.216099 29953.527 100.96863 13103.127 2063.589 1027.044 344.43677 526.25916 85.442406 53.506447 4615.4546 530.48065 22.318764 168.06772 1511.8201 755.1238 324.65042 177.93848 16.689577 136.731 77.81615 716.89453 2512.8196 54.335045 27.546455 979.5388 1349.3716 132.42297 5449.401	1.4618647 0.78284836 -1.458609 0.9470253 -0.88032544 1.0713615 1.106215 0.9645872 0.79765356 -0.92190075 -0.9903923 -1.3879558 0.98157024 -0.90903497 -1.26624 -1.2139733 0.73337555 1.1333268 1.2294074 1.0869836 -1.3365565 0.8736584 -2.0083365 -1.3055232 -1.0518196 -1.0286744 -1.5926542 -1.0839813 1.8115995 0.924122 -0.9327204	166.63864 816.64716 991.91974 236.83755 11555.338 418.29984 4319.835 602.6704 404.83185 149.46686 2242.844 343.13086 410.43787 1837.0425 2245.438 129.01465 1004.0891 673.6803 241.96672 79.31458 57.29771 221.49905 58.012848 1464.8528 4949.828 14183.905 246.52881 337.6577 4880.2 177.11375 45.938103 25376.72	0.78966534 -1.3809679 -0.8373735 1.231132 -0.8685832 0.78192556 -0.95984626 -1.105061 -0.82012224 -0.8229319 0.77657485 0.6669135 1.1037619 -0.71390533 0.7324934 0.92221904 0.96618986 -0.853848 -0.978552 1.4886837 -0.978552 1.4886837 -0.75847626 1.8031902 1.0983088 1.0303297 0.77937603 1.5796461 0.8323147 -1.4728763 -1.0437912 0.885607	3.7478414 up 7.174272771 down 3.074223152 down 6.4519763 up 3.520080652 down 3.1650999 up 4.087469058 down 4.630846942 down 3.445490717 down 3.074997844 down 3.2455783 up 3.1542692 up 5.6244726 up 3.238836395 down 3.1199617 up 4.558183 up 4.532048 up 3.004705399 down 4.288742689 down 5.552341059 down 4.185893172 down 10.019511 up 3.099713122 down 14.040543 up 5.2920694 up 4.2343755 up 3.5016875 up 9.014831 up 3.7745273 up 9.743741546 down 3.912018699 down 3.526721 up	7.20E-05 HGF 1.39E-04 HGF 0.00110359 MFAP3L 5.64E-04 THY1 0.01099562 HCG18 3.34E-04 LOC389033 2.12E-04 SYNGR1 6.46E-04 CLDN4 2.35E-04 RASA4 0.00113252 MME 0.01327224 0.00267308 ABCC3 0.00209978 PTGDS 0.01774734 LOC389300 0.00605089 HDAC4 0.02459556 LCE2A 0.00677361 TMEM59L 0.00581163 HIST1H2BE 5.28E-05 PLEKHG3 4.32E-04 VWA5A 0.0018633 0.002131 HERC6 0.00180934 CCL3 6.93E-04 SLC7A2 1.72E-04 PLOD2 0.00709111 1.38E-04 SPRR2E 0.00360391 TNFRSF10D 0.00237795 HBG1 0.00360391 5-Sep 8.60E-04 CXCL1

	A_33_P3342917	27.222153	-0.97428167	139.67583	0.9691849	3.8462873 up	3.21E-04 SYNGR2
	A_33_P3347291	885.57935	0.8842974	370.381	-0.805032	3.225067599 down	0.00100948 INMT
	A_33_P3347869	58.376186	-2.8510718	2384.4526	2.2457356	34.22094 up	0.00209572 C3
146	A_33_P3348011	25.675642	-1.1754786	128.05997	0.6934755	3.6526766 up	0.01322066 LOC222699
147	A_33_P3350726	622.3606	1.0473847	173.88742	-1.2600044	4.949865289 down	7.24E-04 PPARG
148	A_33_P3351536	169.72058	0.8937571	58.218193	-1.0759734	3.916949239 down	0.00670301 PTK2B
149	A_33_P3351999	35.306046	-0.9766133	183.04651	0.97284937	3.8623066 up	7.46E-05
150	A_33_P3352970	403.82587	-0.95240855	2112.49	0.9884722	3.8393998 up	2.16E-04 IRAK2
151	A_33_P3353791	23.649208	-1.3371141	138.20837	0.93741393	4.838393 up	0.01392281 ITGA1
152	A_33_P3357530	3001.8584	0.968261	1088.7867	-0.9280224	3.722529639 down	5.53E-05 SLC12A7
153	A_33_P3360611	337.70468	0.8618028	143.24521	-0.81193185	3.190394106 down	1.68E-04 MPP2
	A_33_P3362008	50.2169	-2.076064	999.61694	1.8281782	14.97249 up	3.48E-04 NPPB
	A_33_P3364864	332.55402	-1.0714716	1845.1512	0.99492073	4.1883802 up	6.48E-04 NAMPT
	A 33 P3364869	200.9327	-1.5581995	1504.3467	1.0446255	6.0747504 up	0.00965895 NAMPT
	A_33_P3369844	91.823746	-1.0074241	486.77277	0.9501262	3.8840191 up	8.03E-04 CD24
	A_33_P3370094	412.4511	-0.98945284	1860.8416	0.8110366	3.4833837 up	0.00230271 MME
	A_33_P3371718	823.50037	-0.88610077	3837.5142	0.8813791	3.4045873 up	2.16E-04 SAT1
100	/_00_1 0071710	020.00007	0.00010077	0007.0142	0.0010731	0.4040070 ир	2.102 04 07(1)
60	A 33 P3375934	638.9062	-1.136586	3570.2212	0.94721055	4.239213 up	0.00131666 NAMPT
	A_33_P3376140	11.002714	-1.6585754	110.218	1.2864639	7.7009654 up	0.01788862 KCNJ15
	A_33_P3379091	218.78568	0.80558205	85.408424	-0.98491454	3.459339785 down	0.00267226 SYNGR1
	A 33 P3379886	46.88617	-1.596421	354.0429	1.0222149	6.1416907 up	0.00471342 FGF2
	A 33 P3381338	5872.6733	1.1042354	1709.105	-1.0478117	4.44458035 down	5.01E-04 TNXB
	A_33_P3382856	5243.6953	1.6728835	892.1293	-1.2329383	7.494445679 down	0.00354705 DCN
	A_33_P3384287	5493.972	2.0385697	448.68274	-1.9958379	16.38617898 down	2.35E-05 PALM
	A_33_P3393135	186.15112	0.8962575	80.62615	-0.7629783	3.158491858 down	0.00918312
	A_33_P3393821	43659.89	1.2569795	11857.388	-0.9830487	4.72406277 down	0.00310312 0.00301133 C1R
	A_33_P3393621 A_33_P3394727	31.028233	-1.819315	444.23798	1.6282737	10.910071 up	4.62E-04 KHDRBS3
	A_33_P3395605	3371.995	1.1464863	1048.6815	-0.98203254	4.37268327 down	6.52E-04 TMEM119
				627.3004			
	A_33_P3396527 A 33 P3397763	152.6982	-0.90719473		0.7295804	3.1096995 up 4.994004697 down	0.00380643 POLR3G
		322.81003	1.2687835	87.20468	-1.0514137		9.96E-04 TNFSF9
	A_33_P3401647	705.0443	0.79246974	312.26202	-0.8161149	3.049525204 down	0.00530638 PPP1R14A
	A_33_P3401826	200.70169	1.44673	33.563457	-1.5789143	8.143475 down	9.97E-05 CMPK2
	A_33_P3404480	70.636925	-0.9639337	345.95013	0.8899648	3.6147566 up	3.80E-04 MPP4
/0	A_33_P3406493	751.32947	1.1714735	198.17238	-1.1870008	5.12827745 down	5.28E-05 GABBR2
177	A_33_P3407529	643.5459	1.7279105	67.23547	-1.9800355	13.06781536 down	8.26E-04 PRRT4
	A_33_P3408953	51.826603	-0.9262401	218.02252	0.7587609	3.2154062 up	0.0029287 GGTLC2
	A 33 P3409210	222.51572	1.1668302	67.98511	-0.9987732	4.486540356 down	2.77E-04
	A 33 P3409477	44.2302	-0.8451568	199.99277	0.9020066	3.3569787 up	1.96E-04 UBASH3B
	A_33_P3413987	178.93347	0.94564426	63.62398	-0.98902094	3.822894036 down	2.21E-04 SERPING1
	A_33_P3415340	28.778248	-1.0569726	141.20045	0.85920703	3.774223 up	0.00176193
	A 33 P3416473	149.87825	-1.0585933	807.3224	0.83920703	4.011849 up	3.37E-04 LOC646999
	A_33_P3416473 A_33_P3419190	286.4323	-1.0585933			5.023913 up	
			-1.1598163	2059.5295	1.1689951	5.4063153 up	0.0021501 AREG
	A_33_P3419696 A_33_P3421243	165.64836 55.156227		1139.5737 267.4368			0.00347395 FGF2 0.00113216 AFP
			-0.9722979		0.89407754	3.646154 up	
	A_33_P3423551	3446.686	-1.408222	31988.645	1.3598528	6.8119826 up	0.00187072 IER3
	A_33_P3423941 A 33 P3441021	7677.913	2.3382368	408.90033	-2.3175225	25.20712061 down	5.32E-05 IFITM1
		387.67456	-1.2326658	2977.273	1.2706738	5.669964 up	8.17E-05 TMEM233
	A_33_P3695899	18.985786		126.652756	1.0751868	5.2008157 up	0.00198593 FLJ31104
	A_33_P3712341	1125.8806	1.4256968	211.75423	-1.3886632	7.034072696 down	3.88E-05 CXCL12
	A_33_P3718269	112.25133	-1.8618915	1929.4307	1.8415062	13.026682 up	2.21E-04 LOC285628
93	A_33_P3775848	622.7465	0.725693	243.07455	-1.0922316	3.525736288 down	0.00521031 CLIC2
0.4	A 22 D2012100	62 000102	_1.0020040	402 26700	1 1010700	4 000101	1 55E_0/ OCMASE
	A_33_P3813128	62.090183	-1.0839242	403.36728	1.1818702	4.809191 up	1.55E-04 SEMA3F
	A_33_P3825869	682.66125	1.5376301	110.27188	-1.5242189	8.350422055 down	3.02E-05 CACNA1C
	A_33_P3835524	56.407463	-1.0043668	327.781	1.0911775	4.273874 up	0.00102514 POU2F2
	A_33_P3846177	1333.5537	1.3600705	266.11856	-1.404554	6.795711335 down	1.19E-04 B4GALNT1
	A_33_P3846653	19.00562	-1.6230434	269.7326	1.7695615	10.502092 up	6.10E-04
	A_33_P3871347	2264.1577	1.0686228	705.47473	-1.0133078	4.233734131 down	1.21E-04 SNED1

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