

Differential MERS-CoV Response in Different Cell Types

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SUMMARY

The ongoing COVID-19 pandemic piqued our interest in coronaviruses and prompted us to study MERS-CoV. While MERS-CoV has a low infection rate, it exhibits the highest mortality rate among the three known lethal coronaviruses. Thus, the potential for MERS-CoV to initiate a catastrophic pandemic remains a real threat. We decided to study MERS-CoV using online databases and analytical tools. We hypothesized that MERS-CoV infection elicits different responses in different types of host cells. We chose three data sets from Gene Omnibus Expression - GSE100504, GSE100509, and GSE86528, which represent MERS-CoV infection on human airway epithelial cells, primary human microvascular endothelial cells, and primary human fibroblasts, respectively. We performed RNA expression analysis on data collected 48 hours post-infection. Results indicated that human airway epithelial cells exhibited the most potent immune system response, suggesting that they are susceptible to pathogen infection, perhaps due to their location and exposure to the outside environment. We saw NRP1 and VEGFA upregulation in microvascular endothelial cells along with differential expression of angiogenesis and neural development processes. Given that NRP1 mediates SARS-CoV-2 entry into host cells, the infection mechanism for MERS-CoV on microvascular endothelial cells may be like that of SARS-CoV-2. In fibroblasts, we observed a positive regulation of the apoptotic process and negative regulation of cell proliferation. Together, our data supports our hypothesis and sheds light on the types of responses host cells elicit from MERS-CoV infection.

INTRODUCTION

Coronaviruses are a family of viruses known for the crown-shaped spike proteins that protrude from their outer membranes (1). There are three known coronaviruses that are lethal to humans: Severe Acute Respiratory Syndrome coronavirus (SARS-CoV), Middle East Respiratory Syndrome coronavirus (MERS-CoV), and Severe Acute Respiratory Syndrome coronavirus 2 (SARS-CoV-2) (2). While much attention has been directed towards SARS-CoV-2, the

virus causing the ongoing pandemic, it is imperative that we learn about the other coronaviruses. Although SARS-CoV dissipated in 2004, MERS-CoV has continued to cause epidemics since its appearance in Saudi Arabia in 2012 (2, 3, 4).

Both SARS-CoV-2 and MERS-CoV are Beta coronaviruses (2). MERS-CoV targets the same lung epithelial cells as SARS-CoV-2 and exhibits similar symptoms — acute respiratory and inflammatory issues post-infection (2). As illustrated by Kohli et al., MERS-CoV also targets the lower tract of the respiratory system and additional cells such as colon enterocytes, kidney proximal tubule cells, and urothelial bladder cells (5).

However, unlike SARS-CoV-2, which has a crude case fatality rate of around 10%, the crude case fatality rate of MERS-CoV ranges from 32.1% (2, 6, 7). Although the infection rate is lower for MERS-CoV than that of SARS-CoV-2, the potential for MERS-CoV to initiate a more catastrophic pandemic remains an undeniable reality. Realizing the potential danger of MERS-CoV, we decided to analyze the virus and examine how different cells in the human body may respond to its infection. Using publicly available online databases and analytical tools, we explored how human airway epithelial cells, microvascular endothelial cells, and fibroblast cells responded to MERS-CoV at 48 hours post infection.

We chose three cell types for this study based on their respective physiological importance. As outlined by Whitsett and Alenghat, airway epithelial cells construct the lining of the respiratory tract and serve several functions, such as producing surfactants and triggering immune responses (8). We chose airway epithelial cells in this study due to their location and proximity to pathogen infections. We also selected microvascular endothelial cells for this study due to their function and location. Microvascular endothelial cells are crucial for vessel homeostasis and inflammation and line the alveoli-capillary barrier of the lungs, thus, their susceptibility to infection makes it essential for this study (8,9). Finally, we considered fibroblasts as they are the most common cell type in the lung interstitium and maintain the extracellular matrix (10). While they are not the primary site of infection, Sirianni et al. demonstrate that fibroblasts directly link epithelial type 2 cells to capillary endothelial cells (11).

Overall, the susceptibility to MERS-CoV infection, location in the body, and entwined relationships with each other make these three cell types relevant to this study.

In this study, we hypothesized that MERS-CoV infection elicits different responses in different cell types. Our findings demonstrate apparent differences in the biological responses exhibited by the different cell types we studied. Both airway epithelial cells and fibroblasts had unique defense mechanisms against the virus. Additionally, responses in microvascular endothelial cells suggest that MERS-CoV elicits similar mechanisms to SARS-CoV-2. By analyzing RNA expressions in infected cells, we enhanced the understanding of cell type-specific host-pathogen responses of the MERS-CoV virus.

RESULTS

Differential RNA expression specific to cell type

To evaluate the transcriptional responses in human airway epithelial cells, primary human fibroblasts, and primary human microvascular endothelial cells 48 hours post MERS-CoV infection, we analyzed data set GSE100504, GSE86528, and GSE100509, respectively, via GEO2R (Table 1). With results from GEO2R independent samples T-test between 48 hours infection vs. mock infection (supplementary data), we took the top 2000 differentially expressed genes (p-values ranging from 1.13×10^{-13} to 3.57×10^{-3}) to confirm differential RNA expression. We generated heat maps (Figure 1) for each data set to ensure differential expression between 48-hour infected and mock groups. We observed clear differential expression of genes between infected and mock-infected cells for primary human airway epithelial cells, microvascular endothelial cells, and human fibroblasts, respectively.

Enriched Gene Ontology (GO) biological processes

The top 2000 statistically significant differentially expressed genes from GEO2R analysis were placed into the Search Tool for the Retrieval of Interacting Genes (STRING), which allows the identification of enriched functions and biological processes from post-MERS-CoV infection (12). From the biological GO terms, we selected the top five mutually exclusive GO biological processes with their associated genes (Figures 2-4). STRING calculated the Log₂ fold change (FC) for the genes concerning the uninfected cells (Log₂ FC values ranged from -4 to +4). We color-coded the genes according to their Log₂ FC values. Genes upregulated in MERS-infected cells are displayed in red, while genes downregulated are in green.

Human airway epithelial cells had several down regulated biological pathways, which included antigen processing, presentation of exogenous peptide antigen via MHC class I, TAP-independent and peptidyl-tyrosine dephosphorylation involved in the inactivation of protein kinase activity (GO:1990264), and few genes were associated with its biological pathways (Figure 2). Primary human microvascular endothelial cells had a mixed expression of its biological pathways, positive regulation of axon extension involved in axon guidance (GO:0048842) and interleukin-7-mediated signaling pathway (GO:0038111), and moderate genes associated with its biological pathways (Figure 3). Primary human fibroblasts had a mixed expression of their biological

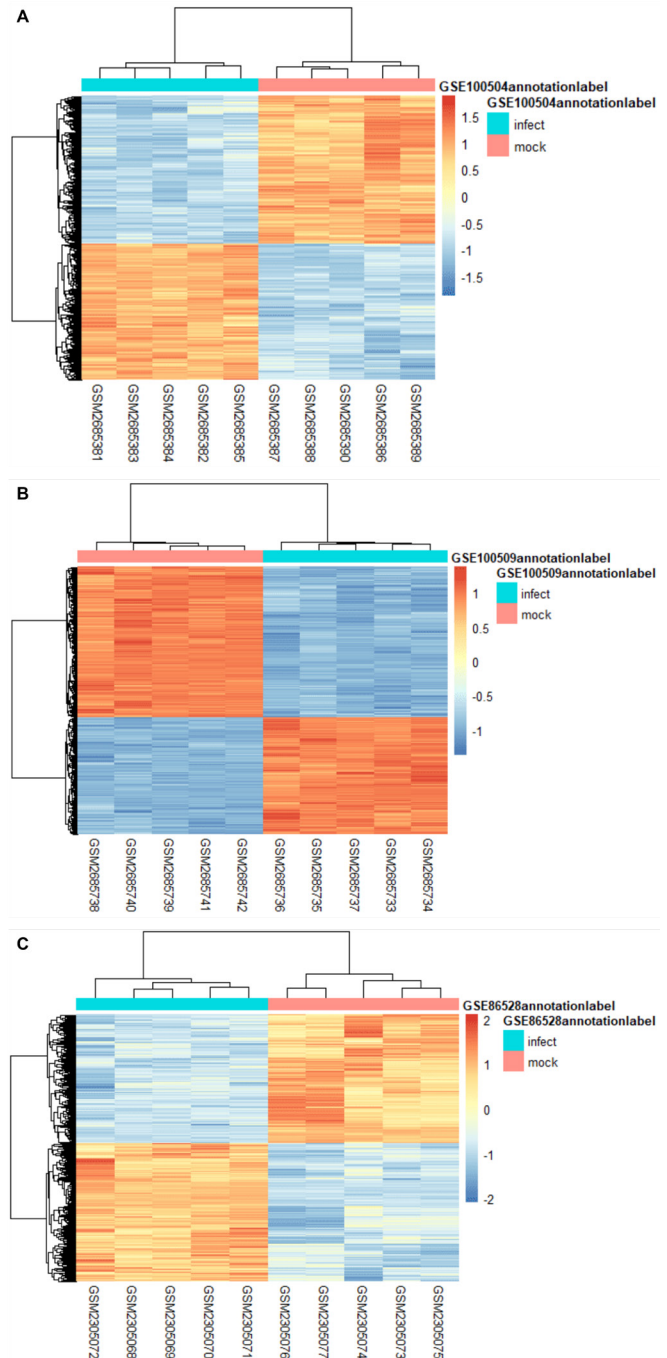


Figure 1: Differential gene expression profiles between infected and mock-infected cells. (A-C) Heat maps comparing the gene expression of (A) human airway epithelial cells, (B) human microvascular endothelial cells, or (C) human primary fibroblast cells infected with MERS-CoV for 48 hours to mock-infected cells.

pathways, regulation of response to endoplasmic reticulum stress (GO:1905897) and negative regulation of translation (GO:0017148), and many genes associated with their biological pathways (Figure 6).

Strong Immune Responses in airway epithelial cells

When infected with MERS-CoV over 48 hours, airway epithelial cells demonstrated upregulation of the immune

Dataset	Sample Name	GEO Accession	Cell Type	Disease State
GEO100504	MHAE003_icMERS_48HRS_RNA_A	GSM2685381	Primary Human Airway Epithelial Cells	icMERS
	MHAE003_icMERS_48HRS_RNA_B	GSM2685382	Primary Human Airway Epithelial Cells	icMERS
	MHAE003_icMERS_48HRS_RNA_C	GSM2685383	Primary Human Airway Epithelial Cells	icMERS
	MHAE003_icMERS_48HRS_RNA_D	GSM2685384	Primary Human Airway Epithelial Cells	icMERS
	MHAE003_icMERS_48HRS_RNA_E	GSM2685385	Primary Human Airway Epithelial Cells	icMERS
	MHAE003 MOCK_48HRS_RNA_A	GSM2685386	Primary Human Airway Epithelial Cells	Mock
	MHAE003 MOCK_48HRS_RNA_B	GSM2685387	Primary Human Airway Epithelial Cells	Mock
	MHAE003 MOCK_48HRS_RNA_C	GSM2685388	Primary Human Airway Epithelial Cells	Mock
	MHAE003 MOCK_48HRS_RNA_D	GSM2685389	Primary Human Airway Epithelial Cells	Mock
	MHAE003 MOCK_48HRS_RNA_E	GSM2685390	Primary Human Airway Epithelial Cells	Mock
GEO86528	MMVE003_icMERS_48HRS_RNA_A	GSM2685733	Primary Human Microvascular Endothelial Cells	icMERS
	MMVE003_icMERS_48HRS_RNA_B	GSM2685734	Primary Human Microvascular Endothelial Cells	icMERS
	MMVE003_icMERS_48HRS_RNA_C	GSM2685735	Primary Human Microvascular Endothelial Cells	icMERS
	MMVE003_icMERS_48HRS_RNA_D	GSM2685736	Primary Human Microvascular Endothelial Cells	icMERS
	MMVE003_icMERS_48HRS_RNA_E	GSM2685737	Primary Human Microvascular Endothelial Cells	icMERS
	MMVE003 MOCK_48HRS_RNA_A	GSM2685738	Primary Human Microvascular Endothelial Cells	Mock
	MMVE003 MOCK_48HRS_RNA_B	GSM2685739	Primary Human Microvascular Endothelial Cells	Mock
	MMVE003 MOCK_48HRS_RNA_C	GSM2685740	Primary Human Microvascular Endothelial Cells	Mock
	MMVE003 MOCK_48HRS_RNA_D	GSM2685741	Primary Human Microvascular Endothelial Cells	Mock
	MMVE003 MOCK_48HRS_RNA_E	GSM2685742	Primary Human Microvascular Endothelial Cells	Mock
GEO100509	MFB002_icMERS_48HRS_RNA_A	GSM2305068	Primary Human Fibroblasts	icMERS
	MFB002_icMERS_48HRS_RNA_B	GSM2305069	Primary Human Fibroblasts	icMERS
	MFB002_icMERS_48HRS_RNA_C	GSM2305070	Primary Human Fibroblasts	icMERS
	MFB002_icMERS_48HRS_RNA_D	GSM2305071	Primary Human Fibroblasts	icMERS
	MFB002_icMERS_48HRS_RNA_E	GSM2305072	Primary Human Fibroblasts	icMERS
	MFB002 MOCK_48HRS_RNA_A	GSM2305073	Primary Human Fibroblasts	Mock
	MFB002 MOCK_48HRS_RNA_B	GSM2305074	Primary Human Fibroblasts	Mock
	MFB002 MOCK_48HRS_RNA_C	GSM2305075	Primary Human Fibroblasts	Mock
	MFB002 MOCK_48HRS_RNA_D	GSM2305076	Primary Human Fibroblasts	Mock
	MFB002 MOCK_48HRS_RNA_E	GSM2305077	Primary Human Fibroblasts	Mock

Table 1: Gene expression data with ten samples from Primary Human Airway Epithelial Cells, Primary Human Microvascular Endothelial Cells, and Primary Human Fibroblasts.

GO ID	GO Terms	Ratio of observed: background gene count	False discovery rate	Genes								
GO:0002480	Antigen processing and presentation of exogenous peptide antigen via MHC class I, TAP-independent	0.75	0.01	HLA-C	HLA-G	HLA-A	HLA-E	HLA-B	HLA-F			
GO:1990264	Peptidyl-tyrosine dephosphorylation involved in inactivation of protein kinase activity	0.47	0.03	DUSP2	DUSP16	DUSP10	DUSP8	PTPRH	DUSP5	DUSP1		
GO:0045953	Negative regulation of natural killer cell mediated cytotoxicity	0.44	0.03	MICA	HLA-G	HLA-A	HLA-E	HLA-B	LGALS9	HLA-F		
GO:0035458	Cellular response to interferon-beta	0.36	0.04	TRIM6	IFI16	IRF1	TREX1	TLR3	IFNB1	PNPT1	AIM2	
GO:0009083	Branched-chain amino acid catabolic process	0.36	0.04	ACADSB	DBT	MCCC1	ACAT1	HIBCH	AUH	ALDH6A1	PPM1K	

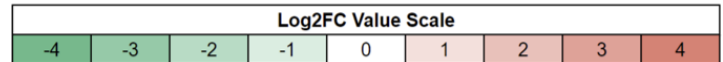


Figure 2: Biological pathways and associated genes of airway epithelial cells. Gene expression data showing expressed biological processes (Antigen processing and presentation of exogenous peptide antigen via MHC class I, TAP-independent, Peptidyl-tyrosine dephosphorylation involved in inactivation of protein kinase activity, Negative regulation of natural killer cell mediated cytotoxicity, Cellular response to interferon-beta, and Branched-chain amino acid catabolic process) and their associated genes from Primary Human Airway Epithelial Cells with log2FC values (ranging from -4 to 4) color-coded for each gene.

system via three of its five selected biological processes (see methods for detailed description for selection) (Figure 2). The three differentially expressed immune processes included the upregulation of antigen processing and presentation of exogenous peptide antigen via MHC class I, TAP-independent (GO:0002480); the upregulation of negative regulation of natural killer cell-mediated cytotoxicity (GO:0045953); and the upregulation of cellular response to interferon-beta (GO:0035458). Compared to microvascular endothelial cells and fibroblasts, airway epithelial cells had a distinct and substantial upregulation of immune system biological processes.

NRP1 and VEGFA upregulation in microvascular endothelial cells

The genes *NRP1* and *VEGFA* became interesting during our analysis due to their significant contribution to SARS-CoV-2 infections and their relationship to the biological processes of microvascular endothelial cells (Figure 3) (13, 14). We analyzed the expression across the three cell types and noted the log2FC values for each cell type (Figure 5). In airway epithelial cells, the log2FC value for *NRP1* was 0.81, and *VEGFA* was 0.75. In microvascular endothelial cells, the log2FC values were 1.95 for *NRP1* and 1.80 for *VEGFA*. In human fibroblast cells, the log2FC value for *NRP1* was -0.68,

and the log2FC value for *VEGFA* was 2.67. *VEGFA* was upregulated in all three infected cell lines (Figure 5) compared to mock-infected cells. However, *NRP1* was only upregulated in infected airway epithelial and microvascular endothelial cells compared to the mock-infected cells. Ultimately, the expression levels of these two genes in this cell line were very different from the other two cell lines.

DISCUSSION

To initiate our analysis of differential pathway expression, we first confirmed differential RNA expression in airway epithelial cells, microvascular endothelial cells, and fibroblasts through R. By generating the heat maps, we were able to demonstrate varying RNA expression between the five control and five infected groups for all three cell lines. We then continued by investigating the differential expression of the biological processes using STRING.

Airway epithelial cells seem to exhibit a more pronounced upregulation of immune system biological processes compared to microvascular endothelial cells and fibroblasts. Airway epithelial cells are the first line of defense against pathogens and, thus, are important in initiating both innate and adaptive immune responses (15). As observed from our data, airway epithelial cells exhibited upregulation of the biological response “Cellular Response to Interferon-

GO ID	GO Terms	Ratio of observed: background gene count	False discovery rate	Genes																			
GO:0048842	positive regulation of axon extension involved in axon guidance	0.86	0.03	SEMA5A	BMPR2	MEGF8	CXCL12	VEGFA	NRP1														
GO:0038111	interleukin-7-mediated signaling pathway	0.37	0.03	IL7	HIST1H3A	HIST1H3F	HIST1H3E	BRWD1	HIST2H3D	HIST1H3G	HIST1H3I	HIST1H3C	IL7R	SMARCA4									
GO:0048662	negative regulation of smooth muscle cell proliferation	0.30	0.02	PDCD4	ANG	NRP1	NDRG4	IL15	NDRG2	PPARG	CDKN1B	TNNBIP1	TRIB1	VIP	APLN	TNFAIP3	HMOX1						
GO:0002040	sprouting angiogenesis	0.29	0.01	BMP4	GPR124	SEMA5A	THBS1	PIK3R3	CDH13	PARVA	MIA3	CDC42	VEGFA	NRP1	JMJD6	VEGFC	SLIT2	PGF	E2F7				
GO:1990138	neuron projection extension	0.25	0.04	SEMA5A	LAMB2	SEMA3A	USP9X	ULK2	ULK1	NDN	PRKCZ	DDR1	EMX1	NRP1	RAPH1	AURKA	HSP90AA1	HSP90AB1	SLIT2				

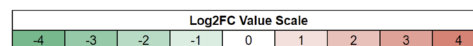


Figure 3: Biological pathways and associated genes of microvascular cells. Gene expression data showing expressed biological processes (positive regulation of axon extension involved in axon guidance, interleukin-7-mediated signaling pathway, negative regulation of smooth muscle cell proliferation, sprouting angiogenesis, and neuron projection extension) and their associated genes from Primary Human Microvascular Endothelial Cells with log2FC values (ranging from -4 to 4) color-coded for each gene.

GO ID	GO Terms	Ratio of observed: background gene count	False discovery rate	Genes																												
GO:1905897	regulation of response to endoplasmic reticulum stress	0.24	0.03	APP	BCL2L11	EDEM2	NFE2L1	SERINC3	TMBIM6	NCK2	TMEM259	DNAJC3	DERL2	AQP11	BAK1	HERPUD1	PTPN1	HSPA1A	YOD1	PPP1R15E	EIF2AK3	FICD	DDIT3	PPP1R15A								
				HRSP12	IGFBP5	RGS2	CIRBP	RPS3	FXR1	EIF4EBP2	ANG	SRP9	EPRS	AGO1	EIF2AK4	ZFP36L1	PATL2	YTHDF2	CPEB3	DHX36	CNOT7	C19orf66	TSC1	EIF2AK2	SAMD4A	RC3H1	ZC3H12A	CPEB4	RBM24			
GO:0017148	negative regulation of translation	0.21	0.014	YTHDF3	EIF2AK3	CNOT6L	RARRES1	MXD4	HRSP12	CDKN1C	SERPINF1	LRRC32	FRZB	SPARC	TP53INP1	FABP3	GPNMB	ADM	CD109	ZNF503	APP	IGFBP5	TIMP2	SRPX	MXI1	CYP1B1	SULF1	PTGIR	PDE5A	IGFBP7	RGN	PDCD4
				SKAP2	SMARCA2	BRD7	B2M	DFNA5	FTH1	BMP4	PPAP2A	HLA-G	IFT52	MEIS1	AR	ANG	GDF5	CAMK2N1	PRDX4	ITGA1	BMPR2	NDN	NCK2	ACVRL1	TFAP2B	BCL2	NGFR	MDM4	PPARGC1A			
GO:0043065	negative regulation of cell population proliferation	0.14	0.01	CD300A	PPARG	MSTN	CHD5	RBM10	ACVR1C	IRF1	E2F3	HIST1H2AC	DIS3L2	MED1	AQP11	CNOT7	BAK1	ING1	PIM2	PAWR	CDK6	STRN	PER2	TSC1	DDX20	TBRG1	EIF2AK2	SCG2	RC3H1			
				SPRY2	HSPA1A	PBRM1	APC	ZBTB17	XDH	B4GALT7	AKIRIN1	BRIP1	RAPGEF2	E2F7	JUN	DUSP1	KLF10	MYC	TNFAIP3	LTA												
GO:0034249	positive regulation of apoptotic process	0.13	0.05	AKR1C3	NQO1	FRZB	CD248	TP53INP1	BNIP3L	LTA	APP	SRPX	FIS1	CALHM2	BCL2L11	BCL2	RPS3	ITM2C	ARHGFE3	PDCD4	TCTN3	SAP18	AGT	CDC42	DFNA5	PDGFRB	BMP4	HLA-G	ADAM10			
				PRMT2	SERINC3	CYP1B1	CFLAR	GSN	GRAMD4	UBC	PTGIS	NFRSF10A	ITGA1	ADM	NCK2	BMF	STPG1	TFAP2B	ATF3	NGFR	PPARGC1A	ARHGFE7	PPARG	MELK	RBM10	ACVR1C	BARD1	UBE2M	E2F3			
GO:0008285	immune effector process	0.12	0.04	RYBP	PIIF	BAK1	ARHGFE1	ING3	TOP2A	PAWR	TIAM2	MCF2L	DDX20	ANKRD1	SKIL	PPP3CC	PLAGL2	ZC3H12A	NLRP1	CYCS	STK17B	APC	XDH	TP53BP2	NFRSF12	RAPGEF2	RAD9A	GADD45G	CYLD			
				DUSP1	JUN	EIF2AK3	MYC	IFIT2	GADD45A	DDIT3	HRK	CREG1	METTL7A	C1S	C1R	BNIP3L	BRK1	GNS	ITGAV	LTA4H	CFH	APP	PRDX1	TIMP2								
GO:0008285	immune effector process	0.12	0.04	IDH1	CYBA	YPEL5	BTN3A2	CAT	PYGL	BCL2	KDELRL1	RNASET2	CHI3L1	CTSB	PRCP	PRDX6	FUCA1	CFI	CPPED1	DNASE1L1	GDI2	B2M	TMEM98	FTH1	GLB1	LAMP2	MME	PGRMC1	AMPD3			
				APOBEC3G	HLA-G	ADAM10	FCGR2A	GUSB	ASAH1	CD46	HSP90AA1	CECR1	SERINC3	ATP6V1D	QPCT	GSN	GNL1	AGA	TMEM63A	AGL	LGALS3	PRDX4	PIK3CG	ATAD5	CDC42	CD300A	BAIAP2	TTC4	F2			
GO:0008285	immune effector process	0.12	0.04	LAMTOR3	AZU1	ARHGAP9	MAP3K14	IRF1	EIF2AK4	DNAJC3	MBL2	POLR3D	TLR4	C9	CBL	ISG20	DBNL	ARMC8	VAPA	SLAMF7	ABCC9	TRIM25	RC3H2	DHX36	CNOT7	C8orf4	C19ORF66	PSMD11	ABCE1			
				TSC1	EIF2AK2	LYST	RC3H1	ZC3H12A	PTAFR	PTPRB	HSPA1A	ZNF175	RIOK3	LAT	LAT2	IFI44L	OASL	FAF2	FOLR3	AEN	MX2	IFIT1	IFIT2	CEBPG	MMP25	PTGER4	RSAD2	HSPA6	RHOV			

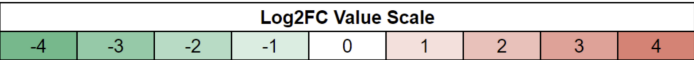


Figure 4: Biological pathways and associated genes of fibroblasts. Gene expression data showing expressed biological processes (regulation of response to endoplasmic reticulum stress, negative regulation of translation, negative regulation of cell population proliferation, positive regulation of apoptotic process, and immune effector process) and their associated genes from Primary Human Fibroblasts with log2FC values (ranging from -4 to 4) color-coded for each gene.

beta.” Consequently, airway epithelial cells may have more pronounced immune responses than primary human microvascular endothelial cells and human fibroblasts.

In addition to the three immune processes, airway epithelial cells had a downregulation of the branched-chain amino acid catabolic process (GO:0009083), indicating the inhibition of amino acid breakdown. Contemporary studies reveal strong links between immune and metabolic functions. As illustrated by McGaha et al., amino acid availability determines the response of an immune system, especially for immune cells that require cell division, differentiation, and migration (16). Thus, the downregulation of amino acid metabolism may indicate a cellular mechanism that supports the immune system during infections.

The final biological process differentially expressed in airway epithelial cells was the upregulation of peptidyl-tyrosine dephosphorylation involved in the inactivation of protein kinase activity (upregulation of RNA transcripts from kinases). This indicates that the cell may have decreased its activation of protein kinases. As viruses acquire host kinases for their replication, the inactivation of kinases via dephosphorylation may be a strategy that cells use to defend

against MERS-CoV effectively (17).

Primary human microvascular endothelial cells had less robust changes in the five selected biological processes we investigated. Nevertheless, *NRP1* and *VEGFA* were found to be upregulated across the biological process of sprouting angiogenesis (GO:0002040). As illustrated by Gelfand et al., *NRP1* promotes *VEGFA* by binding to it as a coreceptor, inducing angiogenesis in endothelial cells (13). Even though the correlation between angiogenesis and MERS-CoV infection is unclear, Meini et al. illustrated the role of intussusceptive angiogenesis in SARS-CoV-2 infection, which is achieved via the induction of chemokines and growth factors post-infection, inducing a pro-angiogenic microenvironment (14). Thus, we speculate that MERS-CoV may exhibit a pro-angiogenic mechanism during infection, notably in microvascular endothelial cells.

Unfortunately, there is limited research on the role of *NRP1* in MERS-CoV infection. However, existing studies reveal the critical role of *NRP1* in SARS-CoV. Cantuti-Castelvetri et al. have shown that *NRP1* expression is abundant in respiratory endothelial cells and significantly potentiates SARS-CoV-2 infection (18). Additionally, Davies et al. have indicated the

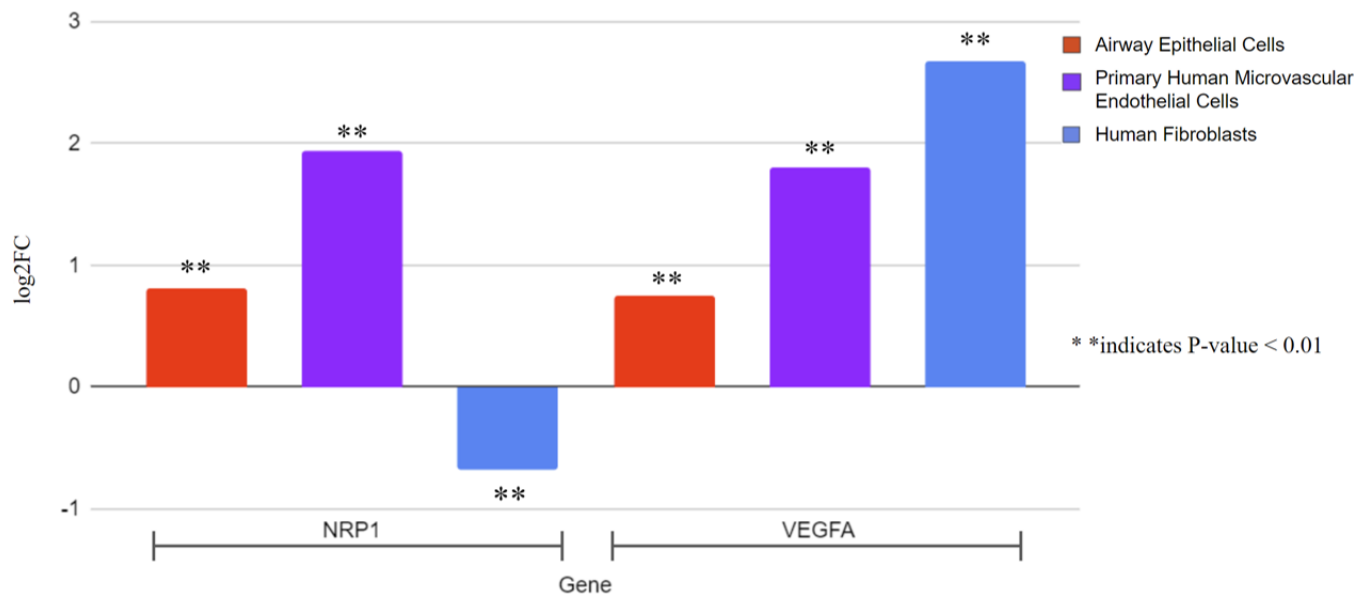


Figure 5: *NRP1* and *VEGFA* expression levels across human airway epithelial cells, microvascular endothelial cells, and primary fibroblast cells.

manifestation of neurological symptoms via the expression of *NRP1* in olfactory regions of the central nervous system (19). Like patients with SARS-CoV-2, patients with MERS-CoV have also reported neurological complications and respiratory symptoms (20). Ultimately, the upregulation of *NRP1* in endothelial cells suggests its functional role in MERS-CoV infection.

Like that of *NRP1*, the function of *VEGFA* in MERS-CoV is unclear. Nevertheless, the upregulation of *VEGFA* is complemented by the expression of positive regulation of axon extension involved in axon guidance and neuron projection extension (GO:1990138). Illustrated by Jin et al., *VEGFA* induces not only angiogenesis but also neurotrophic and neuroprotective effects (21). As MERS-CoV patients experience neurological complications, *VEGFA* and *NRP1* may play a role in dysregulating the nervous system in MERS-CoV infection.

Like microvascular endothelial cells, human fibroblast cells did not exhibit apparent upregulation or downregulation of their biological processes. Nevertheless, we observe intriguing expressions of biological processes, notably the positive regulation of apoptotic processes (GO:0034249), the negative regulation of cell population proliferation (GO:0043065), the negative regulation of translation, and the regulation of response to endoplasmic reticulum stress. Thus, as fibroblasts may undergo apoptosis for wound healing (21) and infected cells undergo apoptosis for viral defense (22), we postulate that fibroblasts undergo apoptosis and inhibit protein synthesis as a defense mechanism when infected with MERS-CoV.

MATERIALS AND METHODS

Analyzed Datasets

We used publicly available datasets from GEO (Gene Expression Omnibus) under NCBI (National Center for Biotechnology Information) for RNA analysis of MERS-CoV. Specifically, we analyzed the super series GSE65575, a dataset published by the University of Wisconsin-Madison

that aimed to model host responses under severe human viral infections. The options of MERS-CoV infection datasets were then limited by the super series.

Sample Selection

We chose three datasets that explored host RNA via Microarray Analysis response to MERS-CoV infection from 0 to 48 hours. The first data set, GSE100504, investigated host RNA from human airway epithelial cells in response to MERS-CoV infection with a multiplicity of infection (MOI) of 5 Plaque Forming Units (PFU) per cell. The second data set, GSE86528, explored host RNA from primary human fibroblasts with an MOI of 5 PFU. Finally, the third data set, GSE100509, analyzed host RNA from microvascular endothelial cells in response to MERS-CoV infection with an MOI of 5 PFU. These three data sets included five mock samples and five wild-type MERS-CoV (iCMERS) infected cell samples. These data sets were generated using similar experimental pipelines: the same MERS-CoV, infection PFU, and sequencing technique.

Differential gene expression analysis

We downloaded the series matrix file from GEO and GEO2R (the web analysis tool from GEO) to compare expression values. For GEO2R analysis, the 48-hour mock cells were compared with the 48-hour infected cells for each data set, and we downloaded the top differentially expressed genes table into a .txt file. We used R to make heatmaps for the top 2000 differentially expressed genes from GEO2R.

Enriched gene function analysis

After generating the heat maps, the top differentially expressed genes table was placed into excel and sorted the genes by adjusted p-value. The 2000 lowest adjusted p-value genes, ranging from 1.13×10^{-13} to 3.57×10^{-3} were selected. The 2000 chosen genes were entered into the STRING Consortium Database of Protein-to-Protein Interaction Network (12).

On STRING, the processes were ordered by the count of genes in the network from smallest to largest. This allowed the greatest ratio of observed to background gene count from the 2000 genes selected to be obtained. Then, five biological processes were selected from smallest to largest count of genes in the network for each data set.

Enriched GO biological processes

To prevent the selection of similar biological processes and ensure mutually exclusive biological processes, we used the Ancestor Chart from Gene Ontology for evaluation. If a smaller biological process were the same or part of another more extensive biological process, the larger biological process would be ignored. We repeated this method for all three data sets until five biological processes were selected from each data set.

After the selection of 5 biological processes, its .txt file was downloaded from STRING and the data placed in Excel. The log₂FC values of each gene and their respective adjusted p-values were recorded according to the .txt file downloaded from GEO2R. We generated heat maps corresponding to this data using Excel. Two distinct genes, *NRP1* and *VEGFA*, were taken into further analysis, and we visualized the data for all three cell lines using bar graphs. The generated bar graphs demonstrate the log₂FC values and adjusted p-values for *NRP1* and *VEGFA* across three cell lines post-MERS-CoV infection. All p-values were confirmed with the .txt file for the top differentially expressed genes from GEO to be under 0.05.

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REFERENCES

1. Ackermann, Maximilian, et al. "Pulmonary Vascular Endothelialitis, Thrombosis, and Angiogenesis in Covid-19." *New England Journal of Medicine*, vol. 383, no. 2, 2020, pp. 120–128., doi:10.1056/nejmoa2015432.
2. Ramadan, Nour, and Houssam Shaib. "Middle East Respiratory Syndrome Coronavirus (MERS-COV): A Review." *Germs*, vol.9, no. 1, 2019, pp. 35–42., doi:10.18683/germs.2019.1155.
3. "Basics of Covid-19." *Centers for Disease Control and Prevention*, Centers for Disease Control and Prevention, www.cdc.gov/coronavirus/2019-ncov/your-health/about-covid-19/basics-covid-19.html.
4. Caccuri, Francesca et al. "SARS-CoV-2 Infection Remodels the Phenotype and Promotes Angiogenesis of Primary Human Lung Endothelial Cells." *Microorganisms* vol. 9,7 1438. 3 Jul. 2021, doi:10.3390/microorganisms9071438
5. Kohli, Aneasha, et al. "Proteomic Landscape of SARS-COV-2- and MERS-COV-Infected Primary Human Renal Epithelial Cells." *Life Science Alliance*, vol. 5, no. 5, 2022, doi:10.26508/lsa.202201371.
6. Alimohamadi, Yousef et al. "Case fatality rate of COVID-19: a systematic review and meta-analysis." *Journal of preventive medicine and hygiene* vol. 62,2 E311-E320. 30 Jul. 2021, doi:10.15167/2421-4248/jpmh2021.62.2.1627
7. Yang, Ya-Min, et al. "Impact of Comorbidity on Fatality Rate of Patients with Middle East Respiratory Syndrome." *Scientific Reports*, vol. 7, no. 1, 2017, doi:10.1038/s41598-017-10402-1.
8. Whitsett, Jeffrey A, and Theresa Alenghat. "Respiratory Epithelial Cells Orchestrate Pulmonary Innate Immunity." *Nature Immunology*, vol. 16, no. 1, 2014, pp. 27–35., doi:10.1038/ni.3045.
9. Kovacs-Kása, Anita et al. "Method for the Culture of Mouse Pulmonary Microvascular Endothelial Cells." *Scientific pages of pulmonology* vol. 1,1 (2017): 7-18.
10. White, Eric S. "Lung Extracellular Matrix and Fibroblast Function." *Annals of the American Thoracic Society*, vol. 12, no. Supplement 1, 2015, doi:10.1513/annalsats.201406-240mg.
11. Sirianni, Faye E., et al. "Human Alveolar Wall Fibroblasts Directly Link Epithelial Type 2 Cells to Capillary Endothelium." *American Journal of Respiratory and Critical Care Medicine*, vol. 168, no. 12, 2003, pp. 1532–1537., doi:10.1164/rccm.200303-371oc.
12. Szklarczyk, Damian, et al. "String V10: Protein–Protein Interaction Networks, Integrated over the Tree of Life." *Nucleic Acids Research*, vol. 43, no. D1, 2014, doi:10.1093/nar/gku1003.
13. Gelfand, Maria V, et al. "Neuropilin-1 Functions as a VEGFR2 Co-Receptor to Guide Developmental Angiogenesis Independent of Ligand Binding." *ELife*, vol. 3, 2014, doi:10.7554/elife.03720.
14. Meini, Simone, et al. "Intussusceptive Angiogenesis in Covid-19: Hypothesis on the Significance and Focus on the Possible Role of FGF2." *Molecular Biology Reports*, vol. 47, no. 10, 2020, pp. 8301–8304., doi:10.1007/s11033-020-05831-7.
15. Thomson, B J. "Viruses and apoptosis." *International journal of experimental pathology* vol. 82,2 (2001): 65-76. doi:10.1111/j.1365-2613.2001.iep0082-0065-x
16. McGaha, Tracy L et al. "Amino acid catabolism: a pivotal regulator of innate and adaptive immunity." *Immunological reviews* vol. 249,1 (2012): 135-57. doi:10.1111/j.1600-065X.2012.01149.x
17. Mondal, Arindam et al. "Influenza virus recruits host protein kinase C to control assembly and activity of its replication machinery." *eLife* vol. 6 e26910. 31 Jul. 2017, doi:10.7554/eLife.26910
18. Cantuti-Castelvetri, Ludovico, et al. "Neuropilin-1 Facilitates SARS-COV-2 Cell Entry and Infectivity." *Science*, vol. 370, no. 6518, 2020, pp. 856–860., doi:10.1126/science.abd2985.
19. Davies, Julie, et al. "Neuropilin-1 as a New Potential SARS-COV-2 Infection Mediator Implicated in the Neurologic Features and Central Nervous System Involvement of COVID-19." *Molecular Medicine Reports*, 2020, doi:10.3892/mmr.2020.11510.
20. Alshebri, Munirah Saad, et al. "Neurological Complications of SARS-COV, MERS-COV, and

COVID-19.” *SN Comprehensive Clinical Medicine*, vol. 2, no. 11, 2020, pp. 2037–2047., doi:10.1007/s42399-020-00589-2.

21. Jin, Kunlin, et al. “Vascular Endothelial Growth Factor (VEGF) Stimulates Neurogenesis *in Vitro* and *in Vivo*.” *Proceedings of the National Academy of Sciences*, vol. 99, no. 18, 2002, pp. 11946–11950., doi:10.1073/pnas.182296499.
22. Fluck, Juliane, et al. “Normal Human Primary Fibroblasts Undergo Apoptosis in Three-Dimensional Contractile Collagen Gels.” *Journal of Investigative Dermatology*, vol. 110, no. 2, 1998, pp. 153–157., doi:10.1046/j.1523-1747.1998.00095.x.

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Supplemental Table 1: Dataset 100504 from human airway epithelial cells

ID	adj.P.Val	logFC	GENE_SYMBOL	GENE_NAME
A_23_P401361	9.99E-03	0.3015221	PITPNM2	phosphatidylinositol transfer protein, membrane-associated 2
A_33_P3327842	9.99E-03	-0.36172	ZNF436	zinc finger protein 436
A_33_P3275362	9.99E-03	0.1917635	DUOXA2	dual oxidase maturation factor 2
A_33_P3270346	9.98E-03	0.1950866	KIR2DL5A	killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 5A
A_24_P409250	9.97E-03	-0.2872731		
A_33_P3403494	9.97E-03	0.3065436	LOC646743	uncharacterized LOC646743
A_32_P107493	9.96E-03	-0.2207963	C16orf55	chromosome 16 open reading frame 55
A_23_P47148	9.96E-03	-0.4312494	NOX4	NADPH oxidase 4
A_33_P3225843	9.96E-03	0.2962858	CCDC149	coiled-coil domain containing 149
A_33_P3340189	9.96E-03	-0.2741438		
A_23_P54340	9.95E-03	-0.1484015	MEGF11	multiple EGF-like-domains 11
A_33_P3337034	9.95E-03	-0.2395266	PRPF4B	PRP4 pre-mRNA processing factor 4 homolog B (yeast)
A_33_P3342613	9.95E-03	-0.4982811	ZDHHC8	zinc finger, DHHC-type containing 8
A_24_P83437	9.95E-03	-0.2412448	ZNF326	zinc finger protein 326
A_23_P317450	9.95E-03	0.1812345	DNAJB3	DnaJ (Hsp40) homolog, subfamily B, member 3
A_24_P315638	9.94E-03	0.2257451	MRGPRE	MAS-related GPR, member E
A_32_P124746	9.94E-03	0.2349309	RHEB	Ras homolog enriched in brain
A_33_P3278501	9.93E-03	1.0137449		
A_33_P3221783	9.93E-03	-0.2751868	TSLP	thymic stromal lymphopoietin
A_33_P3387463	9.93E-03	-0.3383106	ATP6V1D	ATPase, H ⁺ transporting, lysosomal 34kDa, V1 subunit D
A_23_P3368	9.92E-03	0.4726057	FURIN	furin (paired basic amino acid cleaving enzyme)
A_33_P3783235	9.92E-03	-0.4343465	LOC286052	uncharacterized LOC286052
A_23_P8754	9.92E-03	-0.4686321	AASS	aminoadipate-semialdehyde synthase
A_24_P45476	9.92E-03	-0.1634445	XCL1	chemokine (C motif) ligand 1
A_24_P418637	9.92E-03	0.4805845	MACF1	microtubule-actin crosslinking factor 1
A_33_P3404346	9.92E-03	0.1829609		
A_23_P78782	9.92E-03	-0.447542	CA11	carbonic anhydrase XI
A_23_P163697	9.92E-03	-0.4074901	SYT17	synaptotagmin XVII
A_33_P3380098	9.92E-03	0.2340918	PXN	paxillin
A_33_P3261084	9.91E-03	-0.3127791	IDH3B	isocitrate dehydrogenase 3 (NAD ⁺) beta
A_33_P3744415	9.90E-03	-0.1588428		
A_23_P417891	9.90E-03	0.1488893	ARHGEF7	Rho guanine nucleotide exchange factor (GEF) 7
A_33_P3219240	9.89E-03	0.5881756	LOC642980	uncharacterized LOC642980
A_23_P253723	9.89E-03	0.4379426	RRH	retinal pigment epithelium-derived rhodopsin homolog
A_32_P231179	9.88E-03	-0.3651925	TEKT4	tektin 4
A_33_P3407691	9.87E-03	-0.3593633		
A_33_P3293353	9.87E-03	-0.2366045	KCTD3	potassium channel tetramerisation domain containing 3
A_23_P54055	9.86E-03	0.4353549	AJUBA	ajuba LIM protein
A_33_P3252939	9.86E-03	-0.3107208	MYLK4	myosin light chain kinase family, member 4

A_33_P3368830	9.86E-03	0.6274902	LY9	lymphocyte antigen 9
A_33_P3781344	9.86E-03	0.2196754	LOC339593	uncharacterized LOC339593
A_32_P191262	9.85E-03	0.3776839	ACR	acrosin
A_23_P89123	9.85E-03	-0.3460431	CFDP1	craniofacial development protein 1
A_23_P404094	9.85E-03	-0.266628	THAP7-AS1	THAP7 antisense RNA 1 (non-protein coding)
A_33_P3302245	9.85E-03	0.560924	TMEM59L	transmembrane protein 59-like
A_23_P3450	9.85E-03	-0.1744919	TUBGCP4	tubulin, gamma complex associated protein 4
A_33_P3355608	9.85E-03	0.5485249	PCDHA7	protocadherin alpha 7
A_33_P3236441	9.84E-03	0.4650132	LDHAL6A	lactate dehydrogenase A-like 6A
A_33_P3228868	9.84E-03	-0.5564133		
A_23_P46871	9.84E-03	-0.4544094	SLC29A3	solute carrier family 29 (nucleoside transporters), member 3
A_24_P11791	9.82E-03	0.3743899	KPNA4	karyopherin alpha 4 (importin alpha 3)
A_33_P3418371	9.82E-03	0.4792765	LOC100129831	EPWW6493
A_23_P80336	9.82E-03	-0.3265575	TOMM22	translocase of outer mitochondrial membrane 22 homolog (yeast)
A_33_P3240229	9.81E-03	0.621898	CREBBP	CREB binding protein
A_33_P3243652	9.81E-03	0.2923248	LOC100131831	uncharacterized LOC100131831
A_33_P3247403	9.80E-03	0.4849746	TOR3A	torsin family 3, member A
A_24_P127748	9.80E-03	-0.1606827	CLASP2	cytoplasmic linker associated protein 2
A_24_P213548	9.78E-03	-0.1895497	MAN1A2	mannosidase, alpha, class 1A, member 2
A_23_P153855	9.77E-03	-0.3806514	ZNF492	zinc finger protein 492
A_33_P3222056	9.76E-03	0.2218052		
A_23_P347169	9.76E-03	0.2760486	MTUS1	microtubule associated tumor suppressor 1
A_33_P3237260	9.75E-03	-0.285204	C11orf53	chromosome 11 open reading frame 53
A_33_P3213695	9.74E-03	0.2503624	CAB39L	calcium binding protein 39-like
A_33_P3386117	9.73E-03	-0.5358985	RER1	RER1 retention in endoplasmic reticulum 1 homolog (S. cerevisiae)
A_23_P303423	9.73E-03	-0.3104721	SLAIN2	SLAIN motif family, member 2
A_23_P383258	9.73E-03	0.3051853	GDA	guanine deaminase
A_24_P330691	9.72E-03	-0.2439514	SUMO2	SMT3 suppressor of mif two 3 homolog 2 (S. cerevisiae)
A_23_P89824	9.72E-03	-0.4623767	C18orf45	chromosome 18 open reading frame 45
A_33_P3238671	9.72E-03	-0.3626893	C20orf196	chromosome 20 open reading frame 196
A_23_P54918	9.72E-03	-0.288595	LDHD	lactate dehydrogenase D
A_24_P940897	9.71E-03	-0.1898796	OR2H1	olfactory receptor, family 2, subfamily H, member 1
A_33_P3296074	9.71E-03	-0.2361263	ZNF131	zinc finger protein 131
A_33_P3316410	9.71E-03	0.2725709	FAM66A	family with sequence similarity 66, member A
A_23_P105957	9.71E-03	0.7744984	ACTN1	actinin, alpha 1
A_33_P3242863	9.71E-03	-0.4377264	NT5M	5',3'-nucleotidase, mitochondrial
A_24_P169773	9.70E-03	0.2181181	CTAGE4	CTAGE family, member 4
A_24_P50248	9.69E-03	0.3595167	FAM110C	family with sequence similarity 110, member C
A_23_P434518	9.69E-03	0.3464006	LFNG	LFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase
A_33_P3335984	9.68E-03	-0.2376128	FLJ39653	uncharacterized FLJ39653
A_32_P110016	9.68E-03	-0.2928304	LOC727869	uncharacterized LOC727869

A_33_P3223759	9.68E-03	0.3054211	MED13	mediator complex subunit 13
A_33_P3231486	9.68E-03	-0.4145755		
A_33_P3346498	9.68E-03	-0.2170285	OPA1	optic atrophy 1 (autosomal dominant)
A_33_P3263274	9.68E-03	0.6092013		
A_23_P212469	9.68E-03	-0.5456396	ENTPD3	ectonucleoside triphosphate diphosphohydrolase 3
A_24_P39454	9.67E-03	0.415475	INO80	INO80 homolog (<i>S. cerevisiae</i>)
A_33_P3256680	9.66E-03	0.4014315	MFHAS1	malignant fibrous histiocytoma amplified sequence 1
A_23_P60591	9.66E-03	0.2730746	DNAJC7	DnaJ (Hsp40) homolog, subfamily C, member 7
A_24_P152404	9.66E-03	-0.2763021	C10orf76	chromosome 10 open reading frame 76
A_23_P25204	9.66E-03	-0.191591	SLC25A3	solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 3
A_33_P3274069	9.65E-03	0.2585077	RHBDD3	rhomboid domain containing 3
A_23_P26184	9.64E-03	-0.2470796	DET1	de-etiolated homolog 1 (<i>Arabidopsis</i>)
A_33_P3591810	9.64E-03	-0.4929712		
A_33_P3340802	9.64E-03	-0.2334987	DHDDS	dehydrodolichyl diphosphate synthase
A_23_P168592	9.63E-03	-0.3360693	CCDC126	coiled-coil domain containing 126
A_23_P327483	9.62E-03	-0.4916021	SPATA6	spermatogenesis associated 6
A_23_P57547	9.62E-03	-0.3122639	SLC25A17	solute carrier family 25 (mitochondrial carrier; peroxisomal membrane protein, 34kDa), member 17
A_33_P3267532	9.61E-03	-0.327228	KCNJ15	potassium inwardly-rectifying channel, subfamily J, member 15
A_23_P204998	9.61E-03	-0.5067024	FARP1	FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1 (chondrocyte-derived)
A_23_P93938	9.59E-03	0.3231929	NACAD	NAC alpha domain containing
A_23_P102542	9.58E-03	-0.1886624	AFTPH	aftiphilin
A_23_P121222	9.57E-03	-0.2928599	RAD18	RAD18 homolog (<i>S. cerevisiae</i>)
A_23_P151791	9.57E-03	0.196805	LTB4R	leukotriene B4 receptor
A_23_P370147	9.57E-03	0.5626969		
A_23_P9255	9.56E-03	0.3401377	SYK	spleen tyrosine kinase
A_23_P436353	9.55E-03	0.3479973	MLLT4	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, <i>Drosophila</i>); translocated to, 4
A_24_P46334	9.55E-03	-0.5240283	SCOC	short coiled-coil protein
A_23_P39703	9.55E-03	0.2671199	ABCB11	ATP-binding cassette, sub-family B (MDR/TAP), member 11
A_23_P407142	9.54E-03	0.3127021	LUZP1	leucine zipper protein 1
A_33_P3393931	9.54E-03	0.4399165		
A_33_P3387429	9.53E-03	0.2929892		
A_23_P120062	9.53E-03	-0.3640362	C2orf3	chromosome 2 open reading frame 3
A_24_P378987	9.53E-03	-0.2171703	DHRX	dehydrogenase/reductase (SDR family) X-linked
A_33_P3364989	9.52E-03	0.3930465	C20orf134	chromosome 20 open reading frame 134
A_33_P3396612	9.52E-03	-0.1597991		
A_33_P3351686	9.52E-03	-0.9492282	CCDC17	coiled-coil domain containing 17
A_32_P33434	9.52E-03	0.3515329	ZNF812	zinc finger protein 812
A_23_P164999	9.52E-03	0.2774425	CDC34	cell division cycle 34 homolog (<i>S. cerevisiae</i>)
A_23_P4041	9.51E-03	-0.2632629	PCTP	phosphatidylcholine transfer protein
A_23_P52480	9.51E-03	0.4753337	CYP2C18	cytochrome P450, family 2, subfamily C, polypeptide 18
A_33_P3354564	9.50E-03	0.3468521	GPD2	glycerol-3-phosphate dehydrogenase 2 (mitochondrial)

A_23_P169470	9.49E-03	0.434722	CDK9	cyclin-dependent kinase 9
A_33_P3290338	9.49E-03	-0.5551689	PARP1	poly (ADP-ribose) polymerase 1
A_23_P70688	9.49E-03	0.2200519	LY86	lymphocyte antigen 86
A_23_P329835	9.48E-03	0.3286701	UTY	ubiquitously transcribed tetratricopeptide repeat gene, Y-linked
A_33_P3310961	9.48E-03	-0.3187488	LOC100505933	uncharacterized LOC100505933
A_33_P3260572	9.47E-03	0.4023279	CLIP4	CAP-GLY domain containing linker protein family, member 4
A_33_P3301970	9.46E-03	0.2252108	STRADB	STE20-related kinase adaptor beta
A_23_P206310	9.45E-03	0.6456961	KIAA0513	KIAA0513
A_33_P3311770	9.45E-03	-0.3442059	ZNF789	zinc finger protein 789
A_23_P346900	9.44E-03	-0.2516464	CACNA2D2	calcium channel, voltage-dependent, alpha 2/delta subunit 2
A_33_P3298771	9.44E-03	0.3282754		
A_33_P3338494	9.43E-03	-0.1622101	RTCD1	RNA terminal phosphate cyclase domain 1
A_23_P417100	9.43E-03	0.2702466	KRTAP4-6	keratin associated protein 4-6
A_33_P3354434	9.42E-03	-0.3287969	TRIM41	tripartite motif containing 41
A_24_P759477	9.41E-03	0.3564421	ITGB8	integrin, beta 8
A_23_P500892	9.40E-03	-0.6796137	TUB	tubby homolog (mouse)
A_33_P3270337	9.40E-03	-0.2836019	STK32C	serine/threonine kinase 32C
A_33_P3357382	9.39E-03	-0.5017052	POGZ	pogo transposable element with ZNF domain
A_23_P128246	9.39E-03	0.3932122	FICD	FIC domain containing
A_24_P141688	9.39E-03	-0.5473529	PCBP2	poly(rC) binding protein 2
A_32_P198325	9.39E-03	0.3149982	C22orf36	chromosome 22 open reading frame 36
A_33_P3403474	9.39E-03	0.4884157	TMPRSS11BNL	TMPRSS11B N terminal-like
A_24_P38951	9.39E-03	0.4923687	RELT	RELT tumor necrosis factor receptor
A_33_P3210975	9.38E-03	-0.3141682		
A_23_P61127	9.38E-03	0.365281	APOO	apolipoprotein O
A_33_P3288609	9.38E-03	0.1821599	PAK1	p21 protein (Cdc42/Rac)-activated kinase 1
A_24_P327499	9.38E-03	0.3919357	TTI1	TELO2 interacting protein 1
A_33_P3258699	9.37E-03	0.3328983	DUX4	double homeobox 4
A_23_P161156	9.36E-03	0.2303205	ZNF438	zinc finger protein 438
A_23_P16225	9.36E-03	0.4489288	BEST2	bestrophin 2
A_33_P3408577	9.36E-03	0.2856942	POM121L10P	POM121 membrane glycoprotein-like 10, pseudogene
A_33_P3245389	9.35E-03	-0.3253731	C14orf101	chromosome 14 open reading frame 101
A_33_P3411637	9.35E-03	-0.3500289		
A_33_P3407299	9.34E-03	-0.2875787	ANP32E	acidic (leucine-rich) nuclear phosphoprotein 32 family, member E
A_24_P239017	9.33E-03	0.3895337	UBE2MP1	ubiquitin-conjugating enzyme E2M pseudogene 1
A_23_P48771	9.33E-03	-0.2579849	C14orf159	chromosome 14 open reading frame 159
A_23_P301336	9.33E-03	0.2254347	C10orf28	chromosome 10 open reading frame 28
A_33_P3417944	9.33E-03	-0.227482	HDAC11	histone deacetylase 11
A_33_P3394198	9.33E-03	0.4355582	FPGS	folylpolyglutamate synthase
A_32_P159234	9.33E-03	-0.1878751	KIAA1456	KIAA1456
A_33_P3420931	9.31E-03	0.3039309		

A_23_P168276	9.30E-03	-0.2396948	TBPL1	TBP-like 1
A_33_P3390739	9.30E-03	-0.3681262	ST13	suppression of tumorigenicity 13 (colon carcinoma) (Hsp70 interacting protein)
A_33_P3289696	9.30E-03	-0.7542369	OSCP1	organic solute carrier partner 1
A_23_P10559	9.29E-03	-0.1796632	AATK	apoptosis-associated tyrosine kinase
A_23_P94095	9.27E-03	-0.2620778	ANKRD46	ankyrin repeat domain 46
A_33_P3372667	9.27E-03	-0.2187846		
A_32_P42054	9.27E-03	-0.4796449	DND1	dead end homolog 1 (zebrafish)
A_23_P133923	9.27E-03	-0.2630049	GPANK1	G patch domain and ankyrin repeats 1
A_23_P368645	9.27E-03	0.2997314	AGPS	alkylglycerone phosphate synthase
A_23_P33759	9.27E-03	-0.3644327	DHRS3	dehydrogenase/reductase (SDR family) member 3
A_33_P3251672	9.25E-03	0.1821461	ABCA2	ATP-binding cassette, sub-family A (ABC1), member 2
A_33_P3400224	9.25E-03	-0.4559506	DZIP1	DAZ interacting protein 1
A_33_P3242418	9.24E-03	0.5718391	LOC100128348	uncharacterized LOC100128348
A_33_P3847514	9.24E-03	0.2952012	C6orf141	chromosome 6 open reading frame 141
A_23_P255104	9.24E-03	0.4849248	LHFPL2	lipoma HMGIC fusion partner-like 2
A_24_P128312	9.24E-03	0.207455	ZNF79	zinc finger protein 79
A_23_P17173	9.24E-03	0.2024874	TRIM43	tripartite motif containing 43
A_23_P306956	9.24E-03	-0.3368502	ZNF566	zinc finger protein 566
A_23_P501010	9.24E-03	0.7380903	COL17A1	collagen, type XVII, alpha 1
A_33_P3283196	9.24E-03	0.3933872	SCAF11	SR-related CTD-associated factor 11
A_33_P3227467	9.23E-03	0.2504024	BNIP2	BCL2/adenovirus E1B 19kDa interacting protein 2
A_33_P3348011	9.23E-03	0.4298057	TOB2P1	transducer of ERBB2, 2 pseudogene 1
A_23_P145006	9.23E-03	0.6154014	SCGB3A2	secretoglobin, family 3A, member 2
A_33_P3280666	9.22E-03	0.2991903	PHF21B	PHD finger protein 21B
A_24_P356406	9.21E-03	-0.3916558	PAFAH1B1	platelet-activating factor acetylhydrolase 1b, regulatory subunit 1 (45kDa)
A_33_P3270019	9.20E-03	0.2330978	NCOA2	nuclear receptor coactivator 2
A_33_P3273233	9.20E-03	0.2553801		
A_33_P3253144	9.19E-03	-0.2359717	DOK3	docking protein 3
A_23_P29225	9.17E-03	0.259633	FBX07	F-box protein 7
A_23_P157628	9.16E-03	1.1905826	DEFB4A	defensin, beta 4A
A_23_P255153	9.16E-03	-0.2175097	RBMX2	RNA binding motif protein, X-linked 2
A_23_P123916	9.15E-03	0.2629385	LRSAM1	leucine rich repeat and sterile alpha motif containing 1
A_23_P204630	9.15E-03	0.4090348	NTN4	netrin 4
A_24_P103886	9.14E-03	0.4857072	IDI1	isopentenyl-diphosphate delta isomerase 1
A_33_P3324884	9.14E-03	0.2281129	MICAL1	microtubule associated monooxygenase, calponin and LIM domain containing 1
A_32_P331139	9.14E-03	-0.9202474	C1orf192	chromosome 1 open reading frame 192
A_24_P289178	9.14E-03	0.3752911	C16orf74	chromosome 16 open reading frame 74
A_23_P91487	9.14E-03	-0.2927089	RWDD2B	RWD domain containing 2B
A_23_P131990	9.14E-03	0.4005044	VSX1	visual system homeobox 1
A_23_P55917	9.13E-03	0.3840511	SYT3	synaptotagmin III
A_33_P3244269	9.13E-03	0.2617827		

A_33_P3403658	9.13E-03	-0.1828398		
A_23_P102235	9.13E-03	-0.329829	SNRPG	small nuclear ribonucleoprotein polypeptide G
A_24_P152468	9.13E-03	0.5052367	LOC100134663	uncharacterized LOC100134663
A_23_P319640	9.13E-03	0.2425048	LOC151534	uncharacterized LOC151534
A_23_P218988	9.12E-03	-0.2952316	SLC30A5	solute carrier family 30 (zinc transporter), member 5
A_24_P204675	9.11E-03	-0.3212152	LOC100132247	nuclear pore complex interacting protein related gene
A_24_P134319	9.10E-03	-0.4034828	ADNP	activity-dependent neuroprotector homeobox
A_24_P191833	9.08E-03	-0.2521815	SREK1	splicing regulatory glutamine/lysine-rich protein 1
A_24_P918266	9.08E-03	-0.3615158	TMTC3	transmembrane and tetratricopeptide repeat containing 3
A_23_P141180	9.07E-03	0.5050097	TOM1L2	target of myb1-like 2 (chicken)
A_24_P51118	9.07E-03	-0.4263584	MTAP	methylthioadenosine phosphorylase
A_33_P3371144	9.07E-03	0.1750737		
A_23_P80694	9.06E-03	-0.2046802	ACTR8	ARP8 actin-related protein 8 homolog (yeast)
A_23_P428849	9.05E-03	-0.2709409	CHCHD4	coiled-coil-helix-coiled-coil-helix domain containing 4
A_23_P129556	9.05E-03	0.4421818	IL4R	interleukin 4 receptor
A_24_P329924	9.05E-03	0.5534507	SIK3	SIK family kinase 3
A_33_P3256785	9.03E-03	0.456469	CARM1	coactivator-associated arginine methyltransferase 1
A_33_P3380751	9.03E-03	0.5573672	ST8SIA1	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1
A_33_P3275801	9.03E-03	0.3636617	DES	desmin
A_33_P3278303	9.02E-03	0.7582697		
A_33_P3305851	9.02E-03	-0.3811213	SELT	selenoprotein T
A_33_P3269528	9.01E-03	0.195444		
A_33_P3388883	9.01E-03	-0.1947751		
A_23_P101013	9.01E-03	0.3490465	TMC6	transmembrane channel-like 6
A_33_P3359683	9.00E-03	0.2567791	IL16	interleukin 16
A_24_P687594	9.00E-03	-0.4532297	LIX1L	Lix1 homolog (mouse)-like
A_23_P345692	9.00E-03	-0.2870149	IL17D	interleukin 17D
A_23_P28318	8.99E-03	-0.3126433	C2orf56	chromosome 2 open reading frame 56
A_23_P130444	8.99E-03	0.2118092	ZNF701	zinc finger protein 701
A_23_P143981	8.99E-03	-0.6738808	FBLN2	fibulin 2
A_23_P132248	8.99E-03	-0.2799987	ZMAT5	zinc finger, matrin-type 5
A_32_P53486	8.98E-03	-0.3618899	BOLA2B	bolA homolog 2B (E. coli)
A_23_P114232	8.98E-03	-0.2909841	PRDX4	peroxiredoxin 4
A_33_P3254751	8.97E-03	-0.2027698	LOC100131355	uncharacterized LOC100131355
A_23_P201605	8.96E-03	0.3936167	DENND1B	DENN/MADD domain containing 1B
A_33_P3280147	8.96E-03	0.2273609	FLJ45079	FLJ45079 protein
A_33_P3224249	8.96E-03	0.5103933	REXO1L1	REX1, RNA exonuclease 1 homolog (S. cerevisiae)-like 1
A_23_P161338	8.96E-03	0.3256178	PPA1	pyrophosphatase (inorganic) 1
A_24_P137897	8.96E-03	0.3833663	IFRD1	interferon-related developmental regulator 1
A_33_P3348752	8.95E-03	0.3668311	HSPH1	heat shock 105kDa/110kDa protein 1

A_24_P217234	8.95E-03	0.2215646	SLC3A1	solute carrier family 3 (cystine, dibasic and neutral amino acid transporters, activator of cystine, dibasic)
A_33_P3305208	8.94E-03	-0.20658		
A_24_P379693	8.94E-03	0.2451431	DNPEP	aspartyl aminopeptidase
A_23_P135157	8.93E-03	0.1988612	PLAA	phospholipase A2-activating protein
A_23_P167030	8.93E-03	0.2328006	PTH1R	parathyroid hormone 1 receptor
A_33_P3365963	8.92E-03	0.528257		
A_33_P3702104	8.92E-03	-0.4190671	MGC34796	sepiapterin reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase) pseudogene
A_33_P3265301	8.91E-03	0.2320428	GJD3	gap junction protein, delta 3, 31.9kDa
A_33_P3333342	8.90E-03	-0.2095875	FLJ46552	FLJ46552 protein
A_23_P416314	8.90E-03	0.5517953	HRASLS5	HRAS-like suppressor family, member 5
A_33_P3275948	8.89E-03	-0.400377	STARD3NL	STARD3 N-terminal like
A_23_P45699	8.89E-03	0.2587116	FUBP1	far upstream element (FUSE) binding protein 1
A_33_P3321417	8.89E-03	-0.2677304	DMAP1	DNA methyltransferase 1 associated protein 1
A_23_P502553	8.89E-03	0.3071953	TRIM35	tripartite motif containing 35
A_33_P3289820	8.89E-03	-0.4934327	IQSEC1	IQ motif and Sec7 domain 1
A_32_P154830	8.89E-03	-0.2636716	OSTM1	osteopetrosis associated transmembrane protein 1
A_23_P82065	8.88E-03	0.3951464	ELOVL4	ELOVL fatty acid elongase 4
A_23_P62920	8.87E-03	-0.2522825	KIFAP3	kinesin-associated protein 3
A_33_P3412016	8.87E-03	0.5197388	SEMA4B	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain,
A_23_P39931	8.86E-03	0.3456374	DYSF	dysferlin, limb girdle muscular dystrophy 2B (autosomal recessive)
A_23_P26928	8.85E-03	-0.8878168		
A_33_P3334384	8.85E-03	-0.1691173	LOC100132774	uncharacterized LOC100132774
A_33_P3332937	8.85E-03	-0.3175324	MIPEPP3	mitochondrial intermediate peptidase pseudogene 3
A_23_P207336	8.82E-03	0.3028291	PPY	pancreatic polypeptide
A_33_P3372727	8.82E-03	-0.8720868	SEMA5A	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and
A_23_P36753	8.82E-03	-0.3680133	ALDH2	aldehyde dehydrogenase 2 family (mitochondrial)
A_33_P3300757	8.82E-03	-0.2907821	DOPEY1	dopey family member 1
A_33_P3255664	8.81E-03	-0.252726	PBX1	pre-B-cell leukemia homeobox 1
A_33_P3282614	8.81E-03	0.7970217	C9orf173	chromosome 9 open reading frame 173
A_33_P3296592	8.81E-03	-0.2158165	C11orf30	chromosome 11 open reading frame 30
A_23_P111517	8.81E-03	0.2001033	WBSCR17	Williams-Beuren syndrome chromosome region 17
A_24_P196384	8.81E-03	-0.3731293	LOC100129502	uncharacterized LOC100129502
A_24_P393958	8.81E-03	0.2514577	DNAJB4	DnaJ (Hsp40) homolog, subfamily B, member 4
A_33_P3299656	8.80E-03	-0.72225	RPGR	retinitis pigmentosa GTPase regulator
A_33_P3358626	8.79E-03	-0.2376456	TAF4B	TAF4b RNA polymerase II, TATA box binding protein (TBP)-associated factor, 105kDa
A_23_P316974	8.78E-03	0.3795212	SYNJ2	synaptojanin 2
A_33_P3352349	8.78E-03	0.3457729	KRTAP9-1	keratin associated protein 9-1
A_23_P153930	8.78E-03	0.1873795	ACVR2A	activin A receptor, type IIA
A_23_P76291	8.78E-03	0.6490488	PRR4	proline rich 4 (lacrima)

A_23_P424080	8.78E-03	-0.4255982	YIPF4	Yip1 domain family, member 4
A_33_P3304769	8.77E-03	-0.2292106		
A_33_P3332438	8.76E-03	-0.2274361	C6orf72	chromosome 6 open reading frame 72
A_33_P3447304	8.76E-03	-0.3957828	OXR1	oxidation resistance 1
A_33_P3287477	8.76E-03	0.2573826	C10orf120	chromosome 10 open reading frame 120
A_32_P140030	8.74E-03	-1.002036	FOXN4	forkhead box N4
A_33_P3245160	8.74E-03	0.4647961		
A_33_P3295148	8.74E-03	0.4033094		
A_33_P3376365	8.74E-03	0.2537466	HES2	hairy and enhancer of split 2 (Drosophila)
A_32_P34920	8.73E-03	0.780625	FOXD1	forkhead box D1
A_32_P231086	8.73E-03	-0.2444778	GOLGA6L9	golgin A6 family-like 9
A_33_P3406572	8.72E-03	0.1809371	LOC149773	uncharacterized LOC149773
A_33_P3240674	8.71E-03	0.4505963	BRD3	bromodomain containing 3
A_23_P119964	8.70E-03	-0.3195171	CEBPZ	CCAAT/enhancer binding protein (C/EBP), zeta
A_23_P50232	8.69E-03	0.2314127	AURKC	aurora kinase C
A_23_P323143	8.69E-03	-0.2334035	ZNF767	zinc finger family member 767
A_33_P3325843	8.69E-03	0.3093143	FLJ40039	uncharacterized LOC647662
A_33_P3319900	8.68E-03	0.2361127	PRG1	p53-responsive gene 1
A_24_P392690	8.68E-03	0.4196933		
A_33_P3398077	8.68E-03	0.1706431	FLJ31813	FAM21B pseudogene
A_32_P229746	8.68E-03	0.2572513	DNAJB6	DnaJ (Hsp40) homolog, subfamily B, member 6
A_33_P3212782	8.67E-03	-0.2480754	CALM2	calmodulin 2 (phosphorylase kinase, delta)
A_23_P71170	8.66E-03	-0.2365176	TRPV6	transient receptor potential cation channel, subfamily V, member 6
A_24_P237757	8.65E-03	-0.475115	ZMYM2	zinc finger, MYM-type 2
A_23_P37191	8.65E-03	-0.3167482	PSMB5	proteasome (prosome, macropain) subunit, beta type, 5
A_24_P306469	8.65E-03	-0.4772978		
A_33_P3319925	8.64E-03	0.2913172	IRG1	immunoresponsive 1 homolog (mouse)
A_33_P3347201	8.62E-03	0.3980841	VSTM2A	V-set and transmembrane domain containing 2A
A_23_P154086	8.62E-03	-0.1857657	BCS1L	BCS1-like (S. cerevisiae)
A_33_P3256480	8.62E-03	-0.4189583		
A_23_P310460	8.62E-03	-0.4489907	MDGA1	MAM domain containing glycosylphosphatidylinositol anchor 1
A_33_P3234487	8.62E-03	-0.3961513	BOLA2B	bolA homolog 2B (E. coli)
A_33_P3358856	8.61E-03	-0.3137288		
A_23_P160720	8.61E-03	0.3227003	BATF3	basic leucine zipper transcription factor, ATF-like 3
A_24_P41939	8.61E-03	0.4386459		
A_32_P64038	8.61E-03	0.2494648		
A_23_P201181	8.61E-03	0.2174094	PTPN22	protein tyrosine phosphatase, non-receptor type 22 (lymphoid)
A_23_P128174	8.60E-03	0.2731592	RAB3IP	RAB3A interacting protein (rabin3)
A_23_P258912	8.60E-03	-0.2530419	MYOM2	myomesin (M-protein) 2, 165kDa
A_33_P3388948	8.60E-03	-0.4278762	SNX30	sorting nexin family member 30
A_33_P3748769	8.59E-03	0.444016	FLJ27502	uncharacterized LOC388406

A_33_P3348714	8.58E-03	-0.2197165	FGF9	fibroblast growth factor 9 (glia-activating factor)
A_32_P219279	8.58E-03	0.5044853	ELFN2	extracellular leucine-rich repeat and fibronectin type III domain containing 2
A_33_P3394243	8.58E-03	-0.2325412	C1orf101	chromosome 1 open reading frame 101
A_23_P97810	8.58E-03	-0.2204963	PARG	poly (ADP-ribose) glycohydrolase
A_23_P209625	8.57E-03	-0.412754	CYP1B1	cytochrome P450, family 1, subfamily B, polypeptide 1
A_23_P367013	8.56E-03	0.192045	TAS2R60	taste receptor, type 2, member 60
A_23_P378690	8.55E-03	-0.5080275	TMEM64	transmembrane protein 64
A_23_P133345	8.55E-03	-0.2486947	CLINT1	clathrin interactor 1
A_33_P3780987	8.54E-03	0.3616689	SLC36A3	solute carrier family 36 (proton/amino acid symporter), member 3
A_24_P116805	8.54E-03	0.5895632	STAT3	signal transducer and activator of transcription 3 (acute-phase response factor)
A_24_P299911	8.54E-03	-0.4990253	PASK	PAS domain containing serine/threonine kinase
A_23_P308021	8.54E-03	0.6386331	CABP4	calcium binding protein 4
A_24_P76666	8.53E-03	0.1821555	CSNK2A1	casein kinase 2, alpha 1 polypeptide
A_23_P200001	8.53E-03	0.392036	NEXN	nexilin (F actin binding protein)
A_23_P342825	8.53E-03	0.3753769	FBXW4	F-box and WD repeat domain containing 4
A_23_P379630	8.52E-03	0.2659675	SLC38A10	solute carrier family 38, member 10
A_33_P3390853	8.52E-03	-0.3340447	LOC550643	uncharacterized LOC550643
A_33_P3256957	8.52E-03	-0.2349638		
A_23_P21747	8.52E-03	0.4236353	CABP5	calcium binding protein 5
A_24_P775249	8.52E-03	0.1866913	LOC400657	uncharacterized LOC400657
A_23_P77135	8.52E-03	-0.2968784	ATPBD4	ATP binding domain 4
A_33_P3297297	8.51E-03	-0.1990253		
A_33_P3317282	8.50E-03	0.1950133	NUS1	nuclear undecaprenyl pyrophosphate synthase 1 homolog (<i>S. cerevisiae</i>)
A_33_P3263027	8.50E-03	0.2910255		
A_33_P3267562	8.49E-03	0.7883822	VAX2	ventral anterior homeobox 2
A_33_P3373560	8.49E-03	0.2775207	SPTAN1	spectrin, alpha, non-erythrocytic 1 (alpha-fodrin)
A_33_P3375556	8.49E-03	-0.24247		
A_23_P254472	8.49E-03	-0.4172591	C6orf211	chromosome 6 open reading frame 211
A_32_P130577	8.49E-03	-0.2139001		
A_23_P30995	8.48E-03	-0.429739	CYB5R4	cytochrome b5 reductase 4
A_24_P135753	8.48E-03	-0.2919794	PTPLB	protein tyrosine phosphatase-like (proline instead of catalytic arginine), member b
A_33_P3310475	8.48E-03	-0.3751885		11-Sep septin 11
A_33_P3352058	8.47E-03	-0.1868399		
A_23_P38537	8.47E-03	0.5604274	KRT16	keratin 16
A_24_P280378	8.46E-03	-0.2673545	AQR	aquarius homolog (mouse)
A_23_P148150	8.46E-03	0.3748915	COBRA1	cofactor of BRCA1
A_24_P20873	8.45E-03	-0.2852358	HIST1H4I	histone cluster 1, H4i
A_33_P3228355	8.45E-03	-0.2652587	ERV3-1	endogenous retrovirus group 3, member 1
A_23_P321501	8.44E-03	0.3003289	DHRS2	dehydrogenase/reductase (SDR family) member 2
A_33_P3282384	8.44E-03	-0.1957921	C5orf25	chromosome 5 open reading frame 25
A_33_P3381064	8.44E-03	0.1994918		

A_33_P3368388	8.44E-03	-0.5450275	DNAAF1	dynein, axonemal, assembly factor 1
A_33_P3337609	8.43E-03	0.3111878		
A_24_P121171	8.42E-03	-0.2375931	HINFP	histone H4 transcription factor
A_33_P3398912	8.41E-03	0.8049069	SLC2A6	solute carrier family 2 (facilitated glucose transporter), member 6
A_23_P409541	8.40E-03	-0.3253267	POLR1D	polymerase (RNA) I polypeptide D, 16kDa
A_23_P75255	8.40E-03	-0.1705186	VPS26A	vacuolar protein sorting 26 homolog A (S. pombe)
A_32_P30831	8.39E-03	-0.528038	LOC100505648	uncharacterized LOC100505648
A_24_P743907	8.39E-03	0.2143185	DNM1L	dynamin 1-like
A_24_P43588	8.39E-03	0.3238571	MAD2L1BP	MAD2L1 binding protein
A_23_P111797	8.39E-03	0.4135261	DKFZP434F142	uncharacterized DKFZp434F142
A_23_P151820	8.39E-03	0.3970812	RIN3	Ras and Rab interactor 3
A_23_P92196	8.39E-03	0.4195028	RETNLB	resistin like beta
A_23_P53557	8.38E-03	0.4511613	LTBR	lymphotoxin beta receptor (TNFR superfamily, member 3)
A_33_P3397865	8.36E-03	0.536606	TNNT1	troponin T type 1 (skeletal, slow)
A_33_P3214303	8.35E-03	0.7257322	FOXP1	forkhead box P1
A_23_P157051	8.34E-03	-0.2933626	AP4M1	adaptor-related protein complex 4, mu 1 subunit
A_33_P3251557	8.34E-03	0.2919595		
A_24_P13230	8.34E-03	0.3696166	RAB6A	RAB6A, member RAS oncogene family
A_23_P122579	8.34E-03	0.3515311	DAXX	death-domain associated protein
A_33_P3220670	8.34E-03	0.3184487	LOC644649	apolipoprotein O pseudogene
A_23_P205778	8.34E-03	-0.1911593	GNB5	guanine nucleotide binding protein (G protein), beta 5
A_33_P3396349	8.33E-03	-0.3358998	LOC100499183	uncharacterized LOC100499183
A_23_P96976	8.31E-03	-0.3375615	ZCCHC17	zinc finger, CCHC domain containing 17
A_23_P218434	8.31E-03	-0.3893766	ZNF226	zinc finger protein 226
A_33_P3369766	8.31E-03	-0.3155734	MED4	mediator complex subunit 4
A_24_P81841	8.31E-03	-0.2176596	CDKN1B	cyclin-dependent kinase inhibitor 1B (p27, Kip1)
A_23_P164047	8.30E-03	-0.3275945	MMD	monocyte to macrophage differentiation-associated
A_33_P3414982	8.30E-03	-0.2094223	KLHL32	kelch-like 32 (Drosophila)
A_33_P3396120	8.30E-03	-0.3055712	ZNF594	zinc finger protein 594
A_24_P246351	8.29E-03	-0.391806	FAM71E1	family with sequence similarity 71, member E1
A_23_P140738	8.29E-03	0.6131489	PIEZO1	piezo-type mechanosensitive ion channel component 1
A_23_P304716	8.29E-03	0.4864095	HES2	hairy and enhancer of split 2 (Drosophila)
A_24_P312692	8.29E-03	-0.2794301	API5	apoptosis inhibitor 5
A_24_P333697	8.28E-03	0.5996547	KLK13	kallikrein-related peptidase 13
A_23_P127911	8.28E-03	-0.8185973	PAMR1	peptidase domain containing associated with muscle regeneration 1
A_23_P153941	8.28E-03	-0.1808953	CAMKMT	calmodulin-lysine N-methyltransferase
A_23_P37088	8.28E-03	0.6003646	RDH12	retinol dehydrogenase 12 (all-trans/9-cis/11-cis)
A_33_P3398196	8.28E-03	0.7076378		
A_23_P106682	8.27E-03	-0.2351762	EMP2	epithelial membrane protein 2
A_24_P365901	8.27E-03	0.4441993	TSPAN33	tetraspanin 33
A_33_P3317825	8.27E-03	-0.2599643	NRAS	neuroblastoma RAS viral (v-ras) oncogene homolog

A_32_P19806	8.26E-03	-0.5036341	DNAH11	dynein, axonemal, heavy chain 11
A_24_P364807	8.26E-03	-0.3714153	LPCAT2	lysophosphatidylcholine acyltransferase 2
A_24_P101629	8.26E-03	-0.2321539	FAM127B	family with sequence similarity 127, member B
A_23_P137705	8.26E-03	0.352977	TBX19	T-box 19
A_23_P27917	8.26E-03	0.5216689	OR10H1	olfactory receptor, family 10, subfamily H, member 1
A_23_P74609	8.25E-03	0.6180105	GOS2	G0/G1switch 2
A_24_P348845	8.25E-03	0.220303	KRTAP15-1	keratin associated protein 15-1
A_23_P3956	8.25E-03	0.2948079	C1QTNF1	C1q and tumor necrosis factor related protein 1
A_33_P3418005	8.25E-03	-0.4320974	CCDC160	coiled-coil domain containing 160
A_24_P737939	8.25E-03	-0.9498617	C6orf154	chromosome 6 open reading frame 154
A_23_P4425	8.25E-03	0.6358445	FLII	flightless I homolog (Drosophila)
A_33_P3379046	8.24E-03	0.7331295	LOC729770	uncharacterized LOC729770
A_24_P212072	8.24E-03	-0.5330928	ANKRD32	ankyrin repeat domain 32
A_32_P516067	8.23E-03	-0.2462594	C10orf111	chromosome 10 open reading frame 111
A_32_P163858	8.22E-03	0.4903397	SCD	stearoyl-CoA desaturase (delta-9-desaturase)
A_23_P418485	8.21E-03	-0.2500086	C11orf65	chromosome 11 open reading frame 65
A_24_P743672	8.21E-03	0.3947037		
A_23_P33465	8.21E-03	0.4227851	CRELD2	cysteine-rich with EGF-like domains 2
A_23_P10506	8.21E-03	-0.1549439	HPGDS	hematopoietic prostaglandin D synthase
A_33_P3405043	8.20E-03	0.1692629		
A_32_P175349	8.20E-03	0.2882641		
A_23_P369641	8.20E-03	0.4374409	C8orf73	chromosome 8 open reading frame 73
A_23_P115190	8.19E-03	0.5968503	NGF	nerve growth factor (beta polypeptide)
A_23_P361448	8.19E-03	-0.3898551	SESN3	sestrin 3
A_32_P48615	8.19E-03	-0.4450963		
A_33_P3354851	8.19E-03	0.2606676		
A_33_P3358228	8.18E-03	-0.5047165	VWA2	von Willebrand factor A domain containing 2
A_33_P3342096	8.16E-03	0.2719667	ZHX3	zinc fingers and homeoboxes 3
A_23_P375549	8.16E-03	-0.2851934	FUNDC1	FUN14 domain containing 1
A_33_P3361147	8.16E-03	0.3341482		
A_33_P3284662	8.16E-03	-0.4764265	EID2	EP300 interacting inhibitor of differentiation 2
A_23_P41246	8.16E-03	0.3780669	MFSD10	major facilitator superfamily domain containing 10
A_33_P3263412	8.16E-03	0.3999946		
A_33_P3236591	8.16E-03	0.6542135	RLTPR	RGD motif, leucine rich repeats, tropomodulin domain and proline-rich containing
A_23_P89755	8.16E-03	0.2284246	RNF138	ring finger protein 138
A_33_P3362869	8.16E-03	-0.372764	DNAJC19	DnaJ (Hsp40) homolog, subfamily C, member 19
A_33_P3337161	8.15E-03	0.3093425	ADCY4	adenylate cyclase 4
A_33_P3266429	8.15E-03	-0.2253585	SAMD13	sterile alpha motif domain containing 13
A_23_P209700	8.15E-03	0.4310417	NMUR1	neuromedin U receptor 1
A_23_P131096	8.13E-03	-0.2185366	POLRMT	polymerase (RNA) mitochondrial (DNA directed)
A_32_P26376	8.12E-03	-0.2992563	POGLUT1	protein O-glucosyltransferase 1

A_33_P3626816	8.11E-03	0.2431026	CFLAR-AS1	CFLAR antisense RNA 1 (non-protein coding)
A_23_P97283	8.11E-03	-0.2613013	PAQR6	progesterone and adiponectin receptor family member VI
A_24_P295999	8.10E-03	0.5375235	CD4	CD4 molecule
A_23_P139929	8.10E-03	-0.2374591	ERP29	endoplasmic reticulum protein 29
A_33_P3388527	8.08E-03	0.2831952		
A_23_P29855	8.08E-03	-0.2519985	USO1	USO1 vesicle docking protein homolog (yeast)
A_23_P206454	8.07E-03	0.5612755	CENPBD1	CENPB DNA-binding domains containing 1
A_33_P3299220	8.06E-03	0.461692	ADAMTSL4	ADAMTS-like 4
A_23_P156180	8.05E-03	-0.5946843	SLC22A4	solute carrier family 22 (organic cation/ergothioneine transporter), member 4
A_23_P22915	8.04E-03	0.2349137	SLC30A7	solute carrier family 30 (zinc transporter), member 7
A_24_P272917	8.03E-03	0.3477908	USP17	ubiquitin specific peptidase 17
A_23_P12053	8.03E-03	0.527318	SPEN	spen homolog, transcriptional regulator (Drosophila)
A_33_P3508717	8.02E-03	-0.2858713	LOC729678	uncharacterized LOC729678
A_23_P166526	8.02E-03	-1.0405415	RIBC2	RIB43A domain with coiled-coils 2
A_23_P380010	8.02E-03	-0.3097377	STARD9	StAR-related lipid transfer (START) domain containing 9
A_24_P782308	8.02E-03	-0.4956142	NEDD4L	neural precursor cell expressed, developmentally down-regulated 4-like
A_23_P115223	8.02E-03	0.2972286	HAX1	HCLS1 associated protein X-1
A_33_P3208995	8.01E-03	-0.2095024		
A_24_P153511	8.01E-03	-0.2726118	OSBPL8	oxysterol binding protein-like 8
A_33_P3212244	7.99E-03	-0.2252808	KLRAP1	killer cell lectin-like receptor subfamily A pseudogene 1
A_24_P227415	7.99E-03	0.2781832	CLEC7A	C-type lectin domain family 7, member A
A_33_P3212316	7.99E-03	0.2816187		
A_23_P314712	7.98E-03	-0.3936595	CABYR	calcium binding tyrosine-(Y)-phosphorylation regulated
A_33_P3299958	7.98E-03	-0.2373012		
A_23_P141847	7.98E-03	0.4674893	UBE2M	ubiquitin-conjugating enzyme E2M
A_24_P191588	7.97E-03	0.3340802	ALAS1	aminolevulinic acid, delta-, synthase 1
A_23_P25605	7.97E-03	-0.300605	KBTBD7	kelch repeat and BTB (POZ) domain containing 7
A_33_P3354203	7.96E-03	0.7042028	NELL1	NEL-like 1 (chicken)
A_23_P310931	7.96E-03	0.1650034	CNR2	cannabinoid receptor 2 (macrophage)
A_33_P3394993	7.95E-03	0.3271432	PREX2	phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 2
A_33_P3352011	7.95E-03	0.2585543		
A_33_P3331242	7.95E-03	-0.2299554	G3BP1	GTPase activating protein (SH3 domain) binding protein 1
A_23_P331092	7.94E-03	0.5880808	C9orf163	chromosome 9 open reading frame 163
A_23_P101992	7.94E-03	0.3497195	MARCO	macrophage receptor with collagenous structure
A_32_P524014	7.94E-03	-0.3869332	UTRN	utrophin
A_23_P133338	7.94E-03	0.3501616	CDHR2	cadherin-related family member 2
A_33_P3402354	7.94E-03	-0.301298	YLPM1	YLP motif containing 1
A_33_P3350056	7.93E-03	0.3181117	MT1X	metallothionein 1X
A_33_P3378354	7.93E-03	0.3150502		
A_24_P281580	7.93E-03	-0.2939232	GATS	GATS, stromal antigen 3 opposite strand
A_24_P85619	7.93E-03	-0.358633		

A_23_P48936	7.93E-03	0.5523106	SMAD3	SMAD family member 3
A_33_P3544856	7.90E-03	0.2063423	LOC100292680	uncharacterized LOC100292680
A_23_P67847	7.90E-03	0.4592404	GALNT14	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 14 (GalNAc-T14)
A_23_P107644	7.90E-03	-0.3394076	SNRPD1	small nuclear ribonucleoprotein D1 polypeptide 16kDa
A_23_P400515	7.89E-03	0.369244	KIF17	kinesin family member 17
A_24_P325520	7.89E-03	-0.4524764	SORT1	sortilin 1
A_33_P3404032	7.89E-03	-0.277389	HIST3H2A	histone cluster 3, H2a
A_33_P3218925	7.88E-03	0.3204228	STEAP2	STEAP family member 2, metalloreductase
A_24_P386622	7.87E-03	-0.3733746	ARRB1	arrestin, beta 1
A_23_P8913	7.87E-03	0.5470377	CA2	carbonic anhydrase II
A_33_P3314161	7.85E-03	-0.3211375	YAF2	YY1 associated factor 2
A_24_P203622	7.85E-03	-0.2584179	DOCK7	dedicator of cytokinesis 7
A_33_P3381454	7.85E-03	-0.4543562	C1orf56	chromosome 1 open reading frame 56
A_23_P4944	7.85E-03	0.2220803	CALM3	calmodulin 3 (phosphorylase kinase, delta)
A_23_P72668	7.84E-03	-0.6582574	SDPR	serum deprivation response
A_23_P359245	7.84E-03	0.3426888	MET	met proto-oncogene (hepatocyte growth factor receptor)
A_24_P346855	7.84E-03	-0.2233849	MKI67	antigen identified by monoclonal antibody Ki-67
A_33_P3395442	7.84E-03	0.3641104	LOC678655	uncharacterized LOC678655
A_23_P50897	7.83E-03	-0.3093077	MKI67IP	MKI67 (FHA domain) interacting nucleolar phosphoprotein
A_23_P26511	7.83E-03	0.6162586	GDPD3	glycerophosphodiester phosphodiesterase domain containing 3
A_33_P3268368	7.83E-03	0.622052	FZR1	fizzy/cell division cycle 20 related 1 (Drosophila)
A_33_P3277679	7.82E-03	0.4814541		
A_33_P3266958	7.82E-03	-0.2174744	ZNF286A	zinc finger protein 286A
A_23_P353614	7.81E-03	0.1928666	C8orf46	chromosome 8 open reading frame 46
A_33_P3396089	7.81E-03	-0.4720332	SLC38A6	solute carrier family 38, member 6
A_33_P3692979	7.81E-03	-0.6726371	LOC283485	uncharacterized LOC283485
A_24_P940620	7.81E-03	0.3635979	CCDC57	coiled-coil domain containing 57
A_23_P55518	7.81E-03	0.3412599	SMAD7	SMAD family member 7
A_23_P94275	7.80E-03	0.25168	DKK4	dickkopf homolog 4 (Xenopus laevis)
A_23_P201711	7.80E-03	-0.1797722	S100A6	S100 calcium binding protein A6
A_23_P360924	7.80E-03	0.6251885	CLDN17	claudin 17
A_23_P58251	7.80E-03	0.2097247	CPZ	carboxypeptidase Z
A_23_P158775	7.80E-03	0.6211359	UMOD	uromodulin
A_23_P8452	7.80E-03	-0.8868103	LFNG	LFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase
A_32_P138032	7.80E-03	0.2366371	C1orf61	chromosome 1 open reading frame 61
A_23_P119377	7.80E-03	0.32758	CYTH2	cytohesin 2
A_23_P47904	7.79E-03	-1.1275362	CCDC65	coiled-coil domain containing 65
A_32_P147078	7.79E-03	0.1956224	SLC8A1	solute carrier family 8 (sodium/calcium exchanger), member 1
A_33_P3386726	7.77E-03	0.3555771	PI4KB	phosphatidylinositol 4-kinase, catalytic, beta
A_23_P366394	7.77E-03	-0.2200065	ZAK	sterile alpha motif and leucine zipper containing kinase AZK
A_24_P291973	7.77E-03	-0.3229007		7-Sep septin 7

A_23_P127088	7.75E-03	-0.3929875	CUEDC2	CUE domain containing 2
A_33_P3415207	7.75E-03	0.3539489	MPV17	MpV17 mitochondrial inner membrane protein
A_23_P35977	7.75E-03	0.1756813	PDZD3	PDZ domain containing 3
A_24_P181944	7.75E-03	-0.1916023	PHF20	PHD finger protein 20
A_24_P417606	7.74E-03	-0.3388698		
A_23_P152818	7.74E-03	-0.1951931	KAT7	K(lysine) acetyltransferase 7
A_23_P74162	7.74E-03	-0.3626203	IQCC	IQ motif containing C
A_23_P11025	7.73E-03	0.6115886	ZNF185	zinc finger protein 185 (LIM domain)
A_24_P8768	7.73E-03	-0.3514082	MRPL20	mitochondrial ribosomal protein L20
A_24_P401090	7.73E-03	0.2944481		
A_23_P3849	7.72E-03	-0.3065015	TRAP1	TNF receptor-associated protein 1
A_33_P3321205	7.71E-03	0.223847	BEGAIN	brain-enriched guanylate kinase-associated homolog (rat)
A_23_P132139	7.71E-03	0.4344687	C21orf58	chromosome 21 open reading frame 58
A_24_P203298	7.71E-03	-1.1178162	IQUB	IQ motif and ubiquitin domain containing
A_23_P111672	7.70E-03	0.2852534	TES	testis derived transcript (3 LIM domains)
A_33_P3256773	7.70E-03	-0.3175007	C9orf80	chromosome 9 open reading frame 80
A_33_P3390625	7.70E-03	-0.2149543	TPTE2P3	transmembrane phosphoinositide 3-phosphatase and tensin homolog 2 pseudogene 3
A_23_P67829	7.70E-03	0.4386825	UXS1	UDP-glucuronate decarboxylase 1
A_23_P60488	7.70E-03	-0.593535	ODF2	outer dense fiber of sperm tails 2
A_33_P3423202	7.70E-03	-0.2235841		
A_33_P3285893	7.70E-03	0.1589746	SCRN1	secernin 1
A_33_P3391517	7.68E-03	0.1714663	SNX22	sorting nexin 22
A_23_P258367	7.68E-03	-0.2091406	GLE1	GLE1 RNA export mediator homolog (yeast)
A_33_P3224819	7.68E-03	0.5657188	SLC45A4	solute carrier family 45, member 4
A_23_P29257	7.67E-03	0.5210804	H1FO	H1 histone family, member 0
A_24_P795371	7.67E-03	-0.401105	LOC644192	uncharacterized LOC644192
A_33_P3216605	7.67E-03	0.1485312	TMEM63A	transmembrane protein 63A
A_33_P3274080	7.67E-03	0.4433494		
A_33_P3356371	7.67E-03	-0.2178293	LOC100133089	uncharacterized LOC100133089
A_32_P97169	7.67E-03	-0.7382173	GPC6	glypican 6
A_33_P3295283	7.67E-03	-0.7281492	LPCAT3	lysophosphatidylcholine acyltransferase 3
A_33_P3374210	7.66E-03	-0.4512116	MKI67	antigen identified by monoclonal antibody Ki-67
A_33_P3346526	7.66E-03	-0.2989829		
A_32_P190944	7.66E-03	-0.3463325	ACVR1C	activin A receptor, type IC
A_23_P211326	7.66E-03	0.3654951	CECR2	cat eye syndrome chromosome region, candidate 2
A_33_P3212456	7.65E-03	0.2059891	STX1A	syntaxin 1A (brain)
A_23_P147109	7.64E-03	0.6406038	C9orf167	chromosome 9 open reading frame 167
A_33_P3423017	7.63E-03	-0.3827812		
A_23_P89163	7.63E-03	0.2699793	EXOC7	exocyst complex component 7
A_23_P92517	7.63E-03	-1.0693992	TTC29	tetratricopeptide repeat domain 29
A_23_P75204	7.63E-03	-0.2720777	NSMCE4A	non-SMC element 4 homolog A (<i>S. cerevisiae</i>)

A_33_P3397150	7.62E-03	-0.5630922	FLJ22184	putative uncharacterized protein FLJ22184
A_23_P379071	7.62E-03	-0.5749093	FBXL13	F-box and leucine-rich repeat protein 13
A_24_P297078	7.61E-03	-0.3886042	C20orf3	chromosome 20 open reading frame 3
A_33_P3348313	7.61E-03	-0.3171139	C3orf75	chromosome 3 open reading frame 75
A_33_P3261869	7.61E-03	-0.2829089	NPM2	nucleophosmin/nucleoplasmin 2
A_33_P3290567	7.61E-03	0.2682154	WEE1	WEE1 homolog (S. pombe)
A_32_P116271	7.60E-03	-0.2176794	WDFY3-AS2	WDFY3 antisense RNA 2 (non-protein coding)
A_32_P106933	7.59E-03	0.1965789	BCAR4	breast cancer anti-estrogen resistance 4 (non-protein coding)
A_33_P3345936	7.59E-03	0.463133	CCDC9	coiled-coil domain containing 9
A_23_P102258	7.59E-03	-0.2890892	MRPL53	mitochondrial ribosomal protein L53
A_33_P3234643	7.59E-03	-0.2459538	TMCO3	transmembrane and coiled-coil domains 3
A_33_P3347639	7.58E-03	0.4218029	MED18	mediator complex subunit 18
A_23_P50799	7.58E-03	0.7260268	OR10H2	olfactory receptor, family 10, subfamily H, member 2
A_33_P3218625	7.58E-03	-0.3852365	C9orf7	chromosome 9 open reading frame 7
A_23_P79108	7.58E-03	-0.3380039	ATP8B3	ATPase, aminophospholipid transporter, class I, type 8B, member 3
A_24_P926367	7.57E-03	-0.2779229	THRAP3	thyroid hormone receptor associated protein 3
A_33_P3298128	7.57E-03	-0.3014199	ITPR2	inositol 1,4,5-trisphosphate receptor, type 2
A_23_P155441	7.56E-03	-0.3146488	RFT1	RFT1 homolog (S. cerevisiae)
A_23_P129389	7.56E-03	0.3654365	ZDHHC7	zinc finger, DHHC-type containing 7
A_32_P182473	7.56E-03	-0.2569659	ZNF625	zinc finger protein 625
A_33_P3336198	7.56E-03	-0.2536099	C16orf79	chromosome 16 open reading frame 79
A_33_P3237775	7.56E-03	-0.2881492	NR1H3	nuclear receptor subfamily 1, group H, member 3
A_24_P916718	7.56E-03	0.3042734	ZNF467	zinc finger protein 467
A_33_P3391375	7.56E-03	0.6826237	LANCL3	LanC lantibiotic synthetase component C-like 3 (bacterial)
A_23_P162336	7.55E-03	-0.3619645	CNOT2	CCR4-NOT transcription complex, subunit 2
A_33_P3307810	7.55E-03	-0.7628007	CCDC148	coiled-coil domain containing 148
A_33_P3268167	7.55E-03	0.3263462		
A_23_P102109	7.54E-03	0.2286221	TUBA4A	tubulin, alpha 4a
A_33_P3396434	7.54E-03	0.3780816		
A_33_P3392213	7.53E-03	0.5410131		
A_33_P3378654	7.53E-03	0.261237	FLJ31958	uncharacterized LOC143153
A_33_P3376090	7.53E-03	0.3079562	OR1J4	olfactory receptor, family 1, subfamily J, member 4
A_23_P139500	7.53E-03	0.6320137	BHLHE41	basic helix-loop-helix family, member e41
A_33_P3234939	7.53E-03	-0.275235	ZNF266	zinc finger protein 266
A_33_P3319625	7.53E-03	-0.4242137	NFIA	nuclear factor I/A
A_23_P503064	7.53E-03	-0.2059165	KL	klotho
A_33_P3253460	7.52E-03	0.7915118	LOC100130654	uncharacterized LOC100130654
A_23_P302470	7.51E-03	-0.1851769	SULT1B1	sulfotransferase family, cytosolic, 1B, member 1
A_24_P665504	7.51E-03	0.2344671	LOC729737	uncharacterized LOC729737
A_23_P28279	7.50E-03	-0.3238175	ACTR1B	ARP1 actin-related protein 1 homolog B, centractin beta (yeast)
A_33_P3240637	7.50E-03	1.0330658		

A_24_P123833	7.50E-03	-0.2008228	SEMA3E	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3E
A_33_P3363460	7.50E-03	0.431726	LOC100129186	uncharacterized LOC100129186
A_32_P152767	7.50E-03	0.4130359	C10orf140	chromosome 10 open reading frame 140
A_23_P55064	7.50E-03	-0.365962	WRAP53	WD repeat containing, antisense to TP53
A_33_P3441639	7.50E-03	-0.7343582	LOC145694	uncharacterized LOC145694
A_33_P3212665	7.49E-03	0.2924323	HTATSF1P2	HIV-1 Tat specific factor 1 pseudogene 2
A_23_P15798	7.49E-03	0.227741	KRTAP4-12	keratin associated protein 4-12
A_24_P242820	7.49E-03	-0.2176349	TSN	translin
A_23_P113317	7.49E-03	-0.4061375	P4HTM	prolyl 4-hydroxylase, transmembrane (endoplasmic reticulum)
A_33_P3350413	7.49E-03	0.3726839	SVIL	supervillin
A_24_P106839	7.49E-03	0.2176816	WHSC1L1	Wolf-Hirschhorn syndrome candidate 1-like 1
A_33_P3343981	7.49E-03	0.5322936		
A_33_P3538688	7.49E-03	0.1971424	HIST2H4A	histone cluster 2, H4a
A_32_P177040	7.48E-03	-0.4554167	SPDYE5	speedy homolog E5 (<i>Xenopus laevis</i>)
A_24_P302038	7.48E-03	0.3361523	FCHSD2	FCH and double SH3 domains 2
A_33_P3404623	7.47E-03	-0.3680681	MKS1	Meckel syndrome, type 1
A_33_P3356995	7.47E-03	0.6236543	ARFGEF1	ADP-ribosylation factor guanine nucleotide-exchange factor 1 (brefeldin A-inhibited)
A_24_P379353	7.46E-03	-0.2471802	CCDC24	coiled-coil domain containing 24
A_23_P200096	7.46E-03	0.3248775	SPSB1	splA/ryanodine receptor domain and SOCS box containing 1
A_23_P126970	7.46E-03	-0.3699306	TIMM17A	translocase of inner mitochondrial membrane 17 homolog A (yeast)
A_24_P943358	7.45E-03	-0.2526879	DBF4	DBF4 homolog (<i>S. cerevisiae</i>)
A_24_P484965	7.44E-03	0.2165795		
A_23_P166929	7.43E-03	0.2772047	SERPINI1	serpin peptidase inhibitor, clade I (neuroserpin), member 1
A_33_P3265222	7.43E-03	-0.3378197	KIAA1324	KIAA1324
A_23_P107801	7.43E-03	0.3598337	C19orf44	chromosome 19 open reading frame 44
A_33_P3652730	7.42E-03	-0.1985492	FLJ34747	uncharacterized LOC400121
A_33_P3333777	7.41E-03	-0.6018027	LOC100129387	uncharacterized LOC100129387
A_33_P3286349	7.41E-03	-0.9257784	C19orf51	chromosome 19 open reading frame 51
A_33_P3334313	7.41E-03	-0.3835602	ACTR3B	ARP3 actin-related protein 3 homolog B (yeast)
A_33_P3416231	7.40E-03	0.2466998	HOXA9	homeobox A9
A_33_P3400823	7.40E-03	-0.2545613	C1orf190	chromosome 1 open reading frame 190
A_23_P51397	7.40E-03	-0.5525791	ENAH	enabled homolog (<i>Drosophila</i>)
A_33_P3235247	7.38E-03	-0.2460854	LOC100130579	prohibitin pseudogene
A_33_P3625172	7.37E-03	-0.1765803	FLJ37035	uncharacterized LOC399821
A_23_P373568	7.37E-03	-0.5032242	FUZ	fuzzy homolog (<i>Drosophila</i>)
A_23_P54929	7.37E-03	-0.2305979	LYRM1	LYR motif containing 1
A_23_P138835	7.37E-03	0.6062226	CAPN1	calpain 1, (μ /I) large subunit
A_23_P208900	7.37E-03	0.2968465	SEMA6B	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6B
A_23_P250800	7.36E-03	0.603516	ST3GAL6	ST3 beta-galactoside alpha-2,3-sialyltransferase 6
A_23_P410507	7.36E-03	0.5391265	PSPN	persephin
A_23_P115261	7.36E-03	-0.241057	AGT	angiotensinogen (serpin peptidase inhibitor, clade A, member 8)

A_23_P307502	7.35E-03	0.8114147	C9orf53	chromosome 9 open reading frame 53
A_32_P514790	7.34E-03	0.3691888	UNK	unkempt homolog (Drosophila)
A_23_P354805	7.34E-03	-0.278609	KLF12	Kruppel-like factor 12
A_33_P3259148	7.34E-03	-0.3220109	ZNF286B	zinc finger protein 286B
A_33_P3377564	7.34E-03	0.220064	PRICKLE3	prickle homolog 3 (Drosophila)
A_33_P3289128	7.34E-03	0.603588	ZBTB42	zinc finger and BTB domain containing 42
A_33_P3327470	7.33E-03	0.5928755		
A_33_P3211864	7.33E-03	-0.2726512	ARMCX4	armadillo repeat containing, X-linked 4
A_33_P3376205	7.31E-03	0.2206131	LOC645262	phosphodiesterase 4D interacting protein-like
A_24_P925799	7.31E-03	0.1861125		
A_23_P251293	7.30E-03	0.3247095	SNCG	synuclein, gamma (breast cancer-specific protein 1)
A_33_P3417281	7.30E-03	0.3478591	MUC4	mucin 4, cell surface associated
A_23_P210675	7.30E-03	-0.3554877	SYCP2	synaptonemal complex protein 2
A_23_P92320	7.30E-03	-0.3034959	NUP54	nucleoporin 54kDa
A_33_P3228564	7.30E-03	1.0024002	DOK3	docking protein 3
A_23_P93282	7.30E-03	-0.5855889	HIST1H3J	histone cluster 1, H3j
A_33_P3365228	7.30E-03	0.3893151	SEMA5B	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and
A_23_P254888	7.30E-03	0.6568621	ZYX	zyxin
A_33_P3343976	7.29E-03	-0.1947527	ZNRD1-AS1	ZNRD1 antisense RNA 1 (non-protein coding)
A_24_P88775	7.29E-03	-0.3331473	ZNF514	zinc finger protein 514
A_33_P3358037	7.29E-03	0.3604588		
A_23_P99661	7.28E-03	0.3906669	ARHGEF40	Rho guanine nucleotide exchange factor (GEF) 40
A_33_P3364278	7.28E-03	0.1836653	DGAT2L7	diacylglycerol O-acyltransferase 2 like protein 7
A_33_P3360565	7.28E-03	-1.1213134	ZNF474	zinc finger protein 474
A_23_P153256	7.28E-03	0.3592795	ZNF773	zinc finger protein 773
A_24_P195286	7.26E-03	-0.3621718		
A_23_P348281	7.25E-03	-0.2875104	TCEANC2	transcription elongation factor A (SII) N-terminal and central domain containing 2
A_33_P3235053	7.25E-03	0.5106596	TRIM47	tripartite motif containing 47
A_33_P3382766	7.23E-03	-0.184968	FAM27A	family with sequence similarity 27, member A
A_33_P3261054	7.22E-03	-1.2210042	CCDC114	coiled-coil domain containing 114
A_23_P349416	7.22E-03	0.4033323	ERBB3	v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian)
A_33_P3323448	7.22E-03	0.2298292	HM13	histocompatibility (minor) 13
A_33_P3613516	7.22E-03	0.2290339	LOC254057	uncharacterized LOC254057
A_33_P3311646	7.22E-03	0.7895712		
A_24_P337334	7.20E-03	0.2726787	DCTD	dCMP deaminase
A_33_P3352782	7.20E-03	0.3216277	TMCO7	transmembrane and coiled-coil domains 7
A_24_P415150	7.20E-03	-0.8109432	GNA14	guanine nucleotide binding protein (G protein), alpha 14
A_23_P201636	7.19E-03	0.5176873	LAMC2	laminin, gamma 2
A_23_P52402	7.19E-03	0.2694474	PITRM1	pitrilysin metalloproteinase 1
A_24_P237778	7.18E-03	-0.4152893	MAN1C1	mannosidase, alpha, class 1C, member 1

A_33_P3325935	7.17E-03	-0.2094273	PQBP1	polyglutamine binding protein 1
A_24_P346517	7.17E-03	-0.7136521	LRGUK	leucine-rich repeats and guanylate kinase domain containing
A_23_P133227	7.17E-03	0.1920466	HARS	histidyl-tRNA synthetase
A_23_P88106	7.17E-03	-0.3161184	MCF2L	MCF.2 cell line derived transforming sequence-like
A_23_P387630	7.17E-03	0.206891	STARD8	StAR-related lipid transfer (START) domain containing 8
A_23_P9135	7.16E-03	-0.3714883	CNTNAP3	contactin associated protein-like 3
A_33_P3367247	7.16E-03	-0.4747739	CNTLN	centlein, centrosomal protein
A_23_P168898	7.16E-03	-0.2204265	RPS20	ribosomal protein S20
A_33_P3214550	7.16E-03	-0.4390739	CXCR2	chemokine (C-X-C motif) receptor 2
A_23_P13934	7.16E-03	0.2341782	MGC14436	uncharacterized LOC84983
A_23_P206830	7.16E-03	-0.2748998	PAM16	presequence translocase-associated motor 16 homolog (<i>S. cerevisiae</i>)
A_33_P3214625	7.16E-03	0.2918814	INPP4B	inositol polyphosphate-4-phosphatase, type II, 105kDa
A_33_P3409099	7.16E-03	-0.3600523	ATXN1	ataxin 1
A_33_P3256880	7.15E-03	0.2190555	LOC642980	uncharacterized LOC642980
A_24_P127928	7.14E-03	-0.2318104	RAB3GAP2	RAB3 GTPase activating protein subunit 2 (non-catalytic)
A_33_P3340205	7.14E-03	-0.3050673	DDTL	D-dopachrome tautomerase-like
A_23_P129704	7.14E-03	0.3413796	TERF2IP	telomeric repeat binding factor 2, interacting protein
A_24_P14932	7.13E-03	-0.6264967	WDR52	WD repeat domain 52
A_23_P137046	7.13E-03	0.4873573	NYX	nyctalopin
A_23_P108342	7.13E-03	-0.2255719	ZNF571	zinc finger protein 571
A_33_P3286754	7.13E-03	-0.5916412	SEC14L2	SEC14-like 2 (<i>S. cerevisiae</i>)
A_33_P3299739	7.13E-03	0.572299	CLDN19	claudin 19
A_23_P26759	7.13E-03	0.4755885	CANT1	calcium activated nucleotidase 1
A_33_P3249291	7.12E-03	-0.5332879	VWA3A	von Willebrand factor A domain containing 3A
A_23_P15101	7.12E-03	-0.460149	TMC5	transmembrane channel-like 5
A_23_P17811	7.12E-03	0.6577443	SEC14L2	SEC14-like 2 (<i>S. cerevisiae</i>)
A_24_P115971	7.11E-03	0.471885	RIC8A	resistance to inhibitors of cholinesterase 8 homolog A (<i>C. elegans</i>)
A_23_P53276	7.11E-03	-0.3622321	TIMELESS	timeless homolog (<i>Drosophila</i>)
A_33_P3363305	7.11E-03	0.5145425		
A_33_P3474538	7.11E-03	-0.2638104	ZNF90	zinc finger protein 90
A_23_P90533	7.10E-03	-0.3940924	POP4	processing of precursor 4, ribonuclease P/MRP subunit (<i>S. cerevisiae</i>)
A_33_P3420446	7.09E-03	0.491768	LRRD1	leucine-rich repeats and death domain containing 1
A_33_P3724155	7.09E-03	0.3615061	DERL3	Der1-like domain family, member 3
A_33_P3359413	7.09E-03	0.3554446	SGTA	small glutamine-rich tetratricopeptide repeat (TPR)-containing, alpha
A_24_P130936	7.09E-03	-0.3432569	DDX3Y	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked
A_32_P55871	7.08E-03	-1.0023197	C3orf15	chromosome 3 open reading frame 15
A_33_P3378284	7.08E-03	0.7933364	COX6B2	cytochrome c oxidase subunit VIb polypeptide 2 (testis)
A_33_P3294017	7.08E-03	-0.3481412	HNRNPC	heterogeneous nuclear ribonucleoprotein C (C1/C2)
A_23_P148959	7.08E-03	-0.3292731	TM2D1	TM2 domain containing 1
A_33_P3340094	7.07E-03	-0.2805171	FLJ45832	FLJ45832 protein
A_24_P140666	7.07E-03	0.230583	N4BP3	NEDD4 binding protein 3

A_23_P390665	7.06E-03	-0.615901	VWA3A	von Willebrand factor A domain containing 3A
A_23_P50591	7.06E-03	0.284671	KCNK6	potassium channel, subfamily K, member 6
A_33_P3393650	7.06E-03	-0.2278455	PLEKHA5	pleckstrin homology domain containing, family A member 5
A_33_P3264419	7.05E-03	-0.2016327	YTHDF3	YTH domain family, member 3
A_24_P143171	7.05E-03	-0.373105	TMEM47	transmembrane protein 47
A_23_P252052	7.05E-03	0.5140248	FILIP1L	filamin A interacting protein 1-like
A_33_P3333627	7.04E-03	0.2944074	PHACTR1	phosphatase and actin regulator 1
A_23_P157600	7.04E-03	-0.2317268	DDHD2	DDHD domain containing 2
A_24_P373174	7.03E-03	0.1924003	RAB27A	RAB27A, member RAS oncogene family
A_33_P3385785	7.02E-03	0.5380563	S100A12	S100 calcium binding protein A12
A_24_P393461	7.02E-03	-0.2724089	C1orf43	chromosome 1 open reading frame 43
A_33_P3419339	7.02E-03	-0.3985373	GNAI3	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 3
A_33_P3679936	7.02E-03	-0.1980222	LOC283483	uncharacterized LOC283483
A_23_P356965	7.02E-03	-0.3703261	CCDC57	coiled-coil domain containing 57
A_32_P70818	7.01E-03	0.5060734	PAX9	paired box 9
A_23_P393099	7.01E-03	-0.8725405	TFF3	trefoil factor 3 (intestinal)
A_24_P354615	7.01E-03	0.3686709	MTMR12	myotubularin related protein 12
A_23_P396626	7.00E-03	0.3117873	SYNRG	synergin, gamma
A_23_P259328	7.00E-03	-0.2857267	PEX3	peroxisomal biogenesis factor 3
A_24_P358146	7.00E-03	-0.3075146		
A_33_P3270793	6.99E-03	0.263576	FAM84A	family with sequence similarity 84, member A
A_33_P3293265	6.99E-03	0.2599349		
A_33_P3318053	6.99E-03	-0.2343454	C17orf69	chromosome 17 open reading frame 69
A_23_P333640	6.99E-03	-0.5272109	PAPLN	papilin, proteoglycan-like sulfated glycoprotein
A_24_P11965	6.98E-03	-0.3921873	MRFAP1	Morf4 family associated protein 1
A_23_P63178	6.98E-03	-0.2271216	TAF12	TAF12 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 20kDa
A_33_P3712008	6.98E-03	-0.3394635	DKFzP547J222	uncharacterized LOC84237
A_23_P34628	6.98E-03	0.3839681	GTF2B	general transcription factor IIB
A_33_P3296200	6.98E-03	-0.2866472	LOC339400	uncharacterized LOC339400
A_23_P141389	6.98E-03	-0.2289669	RPL27	ribosomal protein L27
A_23_P200560	6.98E-03	-0.2554566	CDC42	cell division cycle 42 (GTP binding protein, 25kDa)
A_33_P3270172	6.97E-03	0.1649223	LOC127841	uncharacterized LOC127841
A_23_P54556	6.97E-03	-0.6312913	MKL2	MKL/myocardin-like 2
A_23_P193	6.97E-03	-0.2878395	DEM1	defects in morphology 1 homolog (S. cerevisiae)
A_23_P46315	6.96E-03	0.4134589	DENND2C	DENN/MADD domain containing 2C
A_23_P158024	6.96E-03	-0.3374876	DCTN3	dynactin 3 (p22)
A_23_P213000	6.96E-03	0.4835256	WDR1	WD repeat domain 1
A_24_P388252	6.96E-03	0.3404098	PPP3R1	protein phosphatase 3, regulatory subunit B, alpha
A_23_P363275	6.96E-03	-0.6268142	WDR66	WD repeat domain 66
A_32_P217655	6.95E-03	-0.2390424	LOC645166	lymphocyte-specific protein 1 pseudogene
A_33_P3394297	6.95E-03	0.2501434	THNSL2	threonine synthase-like 2 (S. cerevisiae)

A_24_P296808	6.94E-03	-0.7161103	PNMAL1	PNMA-like 1
A_33_P3395713	6.93E-03	-0.3064437	BRWD1	bromodomain and WD repeat domain containing 1
A_33_P3273309	6.93E-03	-0.2095895	ZNF765	zinc finger protein 765
A_33_P3262431	6.93E-03	-0.2365783	KREMEN1	kringle containing transmembrane protein 1
A_33_P3327270	6.91E-03	0.6801723	TMED7-TICAM2	TMED7-TICAM2 readthrough
A_23_P402751	6.91E-03	-0.5202919	COX2	cytochrome c oxidase subunit II
A_23_P337934	6.90E-03	0.4422623	FBLIM1	filamin binding LIM protein 1
A_24_P99838	6.89E-03	-0.3048053	ZNF223	zinc finger protein 223
A_33_P3231277	6.89E-03	-0.4226604	HIF1A	hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)
A_32_P205053	6.88E-03	-0.984924	UBXN10	UBX domain protein 10
A_23_P151614	6.88E-03	0.4437169	PSME1	proteasome (prosome, macropain) activator subunit 1 (PA28 alpha)
A_33_P3732466	6.88E-03	-0.5163167	DKFZp547G183	uncharacterized LOC55525
A_32_P107002	6.87E-03	0.2473209	SNX29	sorting nexin 29
A_33_P3305433	6.87E-03	0.3154465	LOC100131381	uncharacterized LOC100131381
A_33_P3211513	6.87E-03	-0.2930755	CLK1	CDC-like kinase 1
A_23_P254648	6.86E-03	0.3450089	FBXW2	F-box and WD repeat domain containing 2
A_23_P118203	6.86E-03	-0.2171491	ZG16B	zymogen granule protein 16 homolog B (rat)
A_23_P257743	6.86E-03	0.407308	SHB	Src homology 2 domain containing adaptor protein B
A_23_P41664	6.86E-03	-0.3797197	LRRC70	leucine rich repeat containing 70
A_23_P148308	6.85E-03	0.3116263	RBM3	RNA binding motif (RNP1, RRM) protein 3
A_23_P330999	6.85E-03	-0.2493625	MED23	mediator complex subunit 23
A_23_P64689	6.85E-03	-0.3306962	PAN2	PAN2 poly(A) specific ribonuclease subunit homolog (S. cerevisiae)
A_23_P144684	6.85E-03	-0.5479454	ANKRD32	ankyrin repeat domain 32
A_33_P3337627	6.84E-03	0.6529083	TRPC6	transient receptor potential cation channel, subfamily C, member 6
A_33_P3298587	6.84E-03	0.5891516	SBNO2	strawberry notch homolog 2 (Drosophila)
A_33_P3424861	6.83E-03	0.6611218	FAM118A	family with sequence similarity 118, member A
A_24_P233570	6.83E-03	-0.2692666	PSMB1	proteasome (prosome, macropain) subunit, beta type, 1
A_24_P405960	6.83E-03	-0.3409006	PCDHB12	protocadherin beta 12
A_32_P228268	6.83E-03	-1.004651	DNAH10	dynein, axonemal, heavy chain 10
A_33_P3216994	6.82E-03	0.2976192	HERC4	hect domain and RLD 4
A_33_P3376234	6.82E-03	-0.485628	PHTF1	putative homeodomain transcription factor 1
A_33_P3313030	6.82E-03	-0.2495809	TXNDC15	thioredoxin domain containing 15
A_33_P3303945	6.82E-03	0.3217982	OR52N4	olfactory receptor, family 52, subfamily N, member 4
A_24_P290163	6.82E-03	0.4129969		
A_23_P250231	6.81E-03	-0.2378332	ANKRD7	ankyrin repeat domain 7
A_23_P34510	6.81E-03	0.3545856	PHC2	polyhomeotic homolog 2 (Drosophila)
A_24_P95822	6.81E-03	-0.370608	NPTN	neuroplastin
A_33_P3411075	6.80E-03	0.7483875	FSCN1	fascin homolog 1, actin-bundling protein (Strongylocentrotus purpuratus)
A_33_P3270311	6.80E-03	-0.6644653	HECW2	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 2
A_33_P3219286	6.80E-03	0.1765286		
A_33_P3302428	6.80E-03	0.870745	TNRC6C	trinucleotide repeat containing 6C

A_32_P5480	6.79E-03	-0.3910397	CERS6	ceramide synthase 6
A_23_P353574	6.79E-03	0.3115075	NEK7	NIMA (never in mitosis gene a)-related kinase 7
A_33_P3287584	6.78E-03	0.1976157	PPP1R18	protein phosphatase 1, regulatory subunit 18
A_24_P76854	6.78E-03	0.3320356	KRTAP2-1	keratin associated protein 2-1
A_24_P307974	6.77E-03	-0.2808889	TAF8	TAF8 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 43kDa
A_33_P3248213	6.77E-03	0.3421022	CSNK1A1P1	casein kinase 1, alpha 1 pseudogene 1
A_33_P3366667	6.77E-03	0.2875216	EYA1	eyes absent homolog 1 (Drosophila)
A_33_P3409944	6.77E-03	-0.2613356	GNAT2	guanine nucleotide binding protein (G protein), alpha transducing activity polypeptide 2
A_33_P3273063	6.77E-03	0.7478378	NUP43	nucleoporin 43kDa
A_24_P55295	6.76E-03	-0.3504738	GJA1	gap junction protein, alpha 1, 43kDa
A_23_P203115	6.76E-03	-0.6365286	TMEM25	transmembrane protein 25
A_32_P46981	6.75E-03	-0.235666	HSBP1L1	heat shock factor binding protein 1-like 1
A_33_P3216319	6.75E-03	0.3783335	ZCCHC14	zinc finger, CCHC domain containing 14
A_23_P48977	6.75E-03	-0.2893542	MRPS11	mitochondrial ribosomal protein S11
A_33_P3331282	6.75E-03	0.2344375	LOC648987	uncharacterized LOC648987
A_23_P44781	6.74E-03	0.3346525	CDKAL1	CDK5 regulatory subunit associated protein 1-like 1
A_33_P3281473	6.74E-03	0.1817276	LOC100131726	HCC-related HCC-C11_v3
A_33_P3363630	6.74E-03	-0.2502542		
A_33_P3231557	6.74E-03	-0.2776451	CDC14B	CDC14 cell division cycle 14 homolog B (S. cerevisiae)
A_23_P412562	6.74E-03	0.5683176	C1orf162	chromosome 1 open reading frame 162
A_33_P3405068	6.73E-03	0.5663067	NAV1	neuron navigator 1
A_23_P117599	6.73E-03	-0.2579356	AHSA1	AHA1, activator of heat shock 90kDa protein ATPase homolog 1 (yeast)
A_33_P3403356	6.73E-03	-0.3057173		
A_33_P3259693	6.73E-03	0.4835539	OR6P1	olfactory receptor, family 6, subfamily P, member 1
A_33_P3419234	6.73E-03	-0.2562995	DCAF4	DDB1 and CUL4 associated factor 4
A_33_P3357879	6.73E-03	0.2833408		
A_23_P132595	6.72E-03	-0.4080326	VGLL4	vestigial like 4 (Drosophila)
A_23_P430792	6.71E-03	-0.2195752	C17orf66	chromosome 17 open reading frame 66
A_33_P3230658	6.71E-03	0.2263412	TSNAX	translin-associated factor X
A_33_P3404641	6.71E-03	-0.3526402	LOC150381	uncharacterized LOC150381
A_24_P281636	6.71E-03	0.2659772		
A_23_P375372	6.70E-03	0.2127423	FGA	fibrinogen alpha chain
A_33_P3818787	6.70E-03	0.352823	LOC344967	acyl-CoA thioesterase 7 pseudogene
A_33_P3277437	6.70E-03	-0.2695579	ERI2	ERI1 exoribonuclease family member 2
A_33_P3215788	6.69E-03	-0.4263786	ANKRD36	ankyrin repeat domain 36
A_32_P19294	6.68E-03	0.2274237	GLT1D1	glycosyltransferase 1 domain containing 1
A_33_P3264379	6.68E-03	-0.3854434	ZNF788	zinc finger family member 788
A_23_P167358	6.68E-03	0.2592382	C4orf29	chromosome 4 open reading frame 29
A_33_P3413053	6.67E-03	-0.3283191	NUBP1	nucleotide binding protein 1
A_33_P3303394	6.67E-03	0.6004621		
A_23_P136196	6.67E-03	-0.3144302	TBC1D19	TBC1 domain family, member 19

A_33_P3324655	6.67E-03	-0.2606919	TTI2	TELO2 interacting protein 2
A_32_P52816	6.67E-03	-0.2327179	TM7SF3	transmembrane 7 superfamily member 3
A_33_P3258546	6.66E-03	0.4721364	PCDHA5	protocadherin alpha 5
A_23_P28057	6.66E-03	0.3966746	THOP1	thimet oligopeptidase 1
A_23_P64799	6.65E-03	0.9706185	AAAS	achalasia, adrenocortical insufficiency, alacrimia
A_33_P3282566	6.65E-03	0.6166673	TMEM104	transmembrane protein 104
A_33_P3344492	6.65E-03	-0.2202295	SCARNA1	small Cajal body-specific RNA 1
A_33_P3302115	6.65E-03	-0.3236524	CAPRN1	cell cycle associated protein 1
A_33_P3422679	6.65E-03	-0.2212939	FAM149B1	family with sequence similarity 149, member B1
A_23_P103433	6.65E-03	-0.8864792	OSCP1	organic solute carrier partner 1
A_33_P3263902	6.65E-03	-0.217374	MXI1	MAX interactor 1
A_32_P50123	6.64E-03	-0.2206892	SRGAP2	SLIT-ROBO Rho GTPase activating protein 2
A_33_P3272429	6.64E-03	-0.3717177	CCDC126	coiled-coil domain containing 126
A_33_P3336113	6.64E-03	0.2300122	TIGD3	tigger transposable element derived 3
A_23_P57588	6.63E-03	-0.3219868	GTSE1	G-2 and S-phase expressed 1
A_24_P410086	6.63E-03	-0.5362726	SSBP4	single stranded DNA binding protein 4
A_33_P3223106	6.63E-03	0.2976323	ZNF890P	zinc finger protein 890, pseudogene
A_33_P3334348	6.63E-03	-0.2052485	LRRC10B	leucine rich repeat containing 10B
A_23_P18518	6.62E-03	-0.228272	TRAM1L1	translocation associated membrane protein 1-like 1
A_24_P272967	6.62E-03	0.2238733	AVL9	AVL9 homolog (S. cerevisiae)
A_23_P126037	6.61E-03	0.2521782	RLF	rearranged L-myc fusion
A_24_P348203	6.61E-03	0.3418375	LRRC8E	leucine rich repeat containing 8 family, member E
A_23_P45917	6.61E-03	-0.3755723	CKS1B	CDC28 protein kinase regulatory subunit 1B
A_33_P3290487	6.60E-03	0.3739821	ZNF668	zinc finger protein 668
A_24_P339416	6.59E-03	0.2069582	ARSG	arylsulfatase G
A_33_P3249185	6.59E-03	0.4687289	SAR1A	SAR1 homolog A (S. cerevisiae)
A_23_P44581	6.59E-03	0.7573326	NOMO1	NODAL modulator 1
A_23_P135548	6.57E-03	-0.3475902	DPYD	dihydropyrimidine dehydrogenase
A_23_P423427	6.57E-03	-0.1998217	FAM171B	family with sequence similarity 171, member B
A_33_P3279475	6.56E-03	-0.3016989		
A_33_P3287562	6.56E-03	0.4019093	BCAP29	B-cell receptor-associated protein 29
A_23_P93792	6.55E-03	0.2283294	PMS2	PMS2 postmeiotic segregation increased 2 (S. cerevisiae)
A_23_P90233	6.55E-03	-0.4738675	ZSCAN5A	zinc finger and SCAN domain containing 5A
A_32_P90047	6.55E-03	-0.2447293	C4orf48	chromosome 4 open reading frame 48
A_33_P3418130	6.54E-03	-0.404638	UPRT	uracil phosphoribosyltransferase (FUR1) homolog (S. cerevisiae)
A_23_P502035	6.54E-03	-0.3401866	GALT	galactose-1-phosphate uridylyltransferase
A_33_P3289860	6.53E-03	0.7091609		
A_23_P23584	6.53E-03	-0.5455145	CTNNBIP1	catenin, beta interacting protein 1
A_33_P3391167	6.53E-03	0.5993486		
A_33_P3348924	6.52E-03	-0.3836249	LOC100128348	uncharacterized LOC100128348
A_33_P3373384	6.52E-03	-0.597805	TMEM231	transmembrane protein 231

A_23_P423864	6.52E-03	0.5350312	PHC2	polyhomeotic homolog 2 (Drosophila)
A_33_P3336223	6.52E-03	0.6484627		
A_23_P111240	6.52E-03	0.2353277	PHACTR2	phosphatase and actin regulator 2
A_23_P135977	6.52E-03	-0.3003208	CKAP5	cytoskeleton associated protein 5
A_24_P116871	6.51E-03	-0.219521	TXNL4A	thioredoxin-like 4A
A_33_P3352664	6.51E-03	0.4371693	SP7	Sp7 transcription factor
A_24_P131222	6.51E-03	0.3001306	ATP13A2	ATPase type 13A2
A_24_P144620	6.51E-03	-0.2379237	C6orf35	chromosome 6 open reading frame 35
A_33_P3322884	6.50E-03	0.2543836		
A_24_P325046	6.50E-03	-0.2769282	ZCCHC7	zinc finger, CCHC domain containing 7
A_23_P30162	6.48E-03	0.305666	MFSD8	major facilitator superfamily domain containing 8
A_23_P51213	6.48E-03	0.1817052	MYOM3	myomesin family, member 3
A_33_P3415042	6.47E-03	0.4258254	ACLY	ATP citrate lyase
A_23_P88420	6.46E-03	-0.2845881	NEDD8	neural precursor cell expressed, developmentally down-regulated 8
A_33_P3247022	6.46E-03	-0.5346178	CCNE2	cyclin E2
A_23_P384551	6.45E-03	0.1885496		
A_24_P225616	6.44E-03	-0.3567569	RRM2	ribonucleotide reductase M2
A_24_P127564	6.43E-03	-0.3414087	LINC00085	long intergenic non-protein coding RNA 85
A_24_P130363	6.43E-03	-0.3960556	C18orf1	chromosome 18 open reading frame 1
A_24_P416346	6.42E-03	0.2423969	ETV4	ets variant 4
A_24_P262738	6.41E-03	0.2645495	DDA1	DET1 and DDB1 associated 1
A_33_P3333078	6.41E-03	-0.3079698	ARID1B	AT rich interactive domain 1B (SWI1-like)
A_23_P56746	6.41E-03	0.8643297	FAP	fibroblast activation protein, alpha
A_33_P3399468	6.41E-03	0.6433704	LOC728054	uncharacterized LOC728054
A_23_P209347	6.40E-03	-0.3133413	ANKRD44	ankyrin repeat domain 44
A_33_P3282740	6.39E-03	0.2664003		
A_23_P397376	6.39E-03	0.4870332	MAF	v-maf musculoaponeurotic fibrosarcoma oncogene homolog (avian)
A_32_P206949	6.39E-03	-0.4470336	TMEM17	transmembrane protein 17
A_23_P319783	6.38E-03	-1.1292046	SPAG17	sperm associated antigen 17
A_23_P19455	6.38E-03	-0.455255	MDC1	mediator of DNA-damage checkpoint 1
A_24_P321634	6.38E-03	0.3377005	ZMYM5	zinc finger, MYM-type 5
A_33_P3307535	6.38E-03	0.256671	LINC00281	long intergenic non-protein coding RNA 281
A_33_P3344277	6.38E-03	0.3629688	HS1BP3	HCLS1 binding protein 3
A_33_P3275835	6.37E-03	0.4584021	TOR2A	torsin family 2, member A
A_23_P7761	6.36E-03	0.2654587	C5orf22	chromosome 5 open reading frame 22
A_24_P942630	6.36E-03	0.4333289	KDM6B	lysine (K)-specific demethylase 6B
A_33_P3269728	6.36E-03	0.3471352	ANKRD10	ankyrin repeat domain 10
A_33_P3358914	6.35E-03	0.4792293	ARHGAP23	Rho GTPase activating protein 23
A_23_P156445	6.35E-03	-0.3651738	DDX43	DEAD (Asp-Glu-Ala-Asp) box polypeptide 43
A_33_P3460043	6.35E-03	0.3153123	C8orf56	chromosome 8 open reading frame 56
A_33_P3259423	6.35E-03	0.3507642	WDR55	WD repeat domain 55

A_33_P3277611	6.35E-03	0.5590133	TMEM8C	transmembrane protein 8C
A_33_P3229272	6.35E-03	0.190994	BCAR1	breast cancer anti-estrogen resistance 1
A_24_P193600	6.34E-03	-0.3313901	ZNF174	zinc finger protein 174
A_32_P169505	6.34E-03	-0.1820315	KIAA2022	KIAA2022
A_33_P3243929	6.33E-03	0.6607943	FLJ42022	uncharacterized LOC646748
A_24_P399083	6.33E-03	0.2755852	TXNL4B	thioredoxin-like 4B
A_33_P3239620	6.33E-03	0.4583846	SPINT3	serine peptidase inhibitor, Kunitz type, 3
A_24_P170983	6.32E-03	0.4289093	ESPNL	espin-like
A_23_P386942	6.32E-03	0.228315	DIRAS1	DIRAS family, GTP-binding RAS-like 1
A_23_P26072	6.31E-03	0.625726		
A_24_P383076	6.31E-03	-0.4204104	AASDH	aminoadipate-semialdehyde dehydrogenase
A_23_P32021	6.30E-03	-0.2455098	FANCC	Fanconi anemia, complementation group C
A_23_P111228	6.30E-03	-0.3261862	COQ3	coenzyme Q3 homolog, methyltransferase (<i>S. cerevisiae</i>)
A_23_P432013	6.29E-03	0.1603934	ZPLD1	zona pellucida-like domain containing 1
A_33_P3286162	6.29E-03	0.3122238		
A_33_P3214481	6.28E-03	-0.4775118	P4HA1	prolyl 4-hydroxylase, alpha polypeptide I
A_33_P3416787	6.28E-03	-0.5545057	LOC100653080	zinc finger protein 182-like
A_23_P210581	6.28E-03	0.5242794	KCNQ1	potassium voltage-gated channel, subfamily G, member 1
A_33_P3282374	6.28E-03	0.2536256	TIAM2	T-cell lymphoma invasion and metastasis 2
A_23_P200999	6.27E-03	0.5203365	ST3GAL3	ST3 beta-galactoside alpha-2,3-sialyltransferase 3
A_32_P232192	6.26E-03	-0.3169159	DIS3L2	DIS3 mitotic control homolog (<i>S. cerevisiae</i>)-like 2
A_24_P415624	6.25E-03	0.3176695	MLXIP	MLX interacting protein
A_33_P3271594	6.25E-03	0.7397677	TRIM54	tripartite motif containing 54
A_24_P331560	6.24E-03	0.5834249	STS	steroid sulfatase (microsomal), isozyme S
A_33_P3292432	6.24E-03	-0.2599053	IQCA1	IQ motif containing with AAA domain 1
A_24_P102920	6.24E-03	-0.2958011	WDR33	WD repeat domain 33
A_23_P314120	6.24E-03	-0.2320074	CHKB	choline kinase beta
A_33_P3257528	6.23E-03	-0.2938409	ZNF451	zinc finger protein 451
A_23_P7423	6.22E-03	0.4943211	NSUN2	NOP2/Sun domain family, member 2
A_24_P76300	6.22E-03	-0.2472384		
A_23_P100795	6.21E-03	0.5780348	STAT3	signal transducer and activator of transcription 3 (acute-phase response factor)
A_24_P154868	6.19E-03	-0.1891773	MEP1A	mepirin A, alpha (PABA peptide hydrolase)
A_33_P3388882	6.19E-03	0.2220553	FAM66D	family with sequence similarity 66, member D
A_33_P3378545	6.19E-03	0.3267218		
A_23_P97584	6.19E-03	-0.351625	DNTTIP2	deoxynucleotidyltransferase, terminal, interacting protein 2
A_23_P65370	6.19E-03	-0.4872209	GLRX5	glutaredoxin 5
A_33_P3423435	6.19E-03	0.3053634	ZNF710	zinc finger protein 710
A_23_P6422	6.18E-03	0.1645775	RFPL3	ret finger protein-like 3
A_33_P3354970	6.18E-03	0.1994127		
A_23_P208416	6.18E-03	0.4019317	SLC35E1	solute carrier family 35, member E1
A_24_P381975	6.18E-03	-0.3838024	TMEM231	transmembrane protein 231

A_33_P3260614	6.18E-03	-0.2588105	PLCB2	phospholipase C, beta 2
A_23_P259251	6.17E-03	-0.3556445	KCND2	potassium voltage-gated channel, Shal-related subfamily, member 2
A_23_P24384	6.17E-03	0.3627811	CCDC88B	coiled-coil domain containing 88B
A_33_P3360426	6.17E-03	0.4060523	WDR1	WD repeat domain 1
A_33_P3293202	6.15E-03	-0.4833781	C8orf37	chromosome 8 open reading frame 37
A_23_P257503	6.14E-03	-0.3323788	HERC1	hect (homologous to the E6-AP (UBE3A) carboxyl terminus) domain and RCC1 (CHC1)-like domain (RLD) 1
A_23_P37484	6.14E-03	0.5238318	CHSY1	chondroitin sulfate synthase 1
A_33_P3602006	6.14E-03	0.4930887	ADAT2	adenosine deaminase, tRNA-specific 2
A_32_P32856	6.13E-03	0.2800427	PCDHGC5	protocadherin gamma subfamily C, 5
A_33_P3260146	6.13E-03	-0.1929491	C9orf3	chromosome 9 open reading frame 3
A_33_P3253440	6.13E-03	-0.2081648	PQLC3	PQ loop repeat containing 3
A_32_P211248	6.13E-03	0.8298454	LOC100131138	uncharacterized LOC100131138
A_24_P925314	6.13E-03	-0.5777928	GM2A	GM2 ganglioside activator
A_23_P46907	6.13E-03	-0.2658798	MICU1	mitochondrial calcium uptake 1
A_33_P3260689	6.13E-03	0.2210444	H2AFB2	H2A histone family, member B2
A_33_P3261463	6.13E-03	0.1991642	FLJ42875	uncharacterized LOC440556
A_24_P17302	6.13E-03	0.3603141	UBE2J2	ubiquitin-conjugating enzyme E2, J2
A_33_P3368323	6.12E-03	0.2179382		
A_23_P390032	6.12E-03	-0.3257687	SLC35G1	solute carrier family 35, member G1
A_24_P171058	6.12E-03	-0.3902854	TMEM64	transmembrane protein 64
A_24_P522631	6.12E-03	0.7121265	TMEM201	transmembrane protein 201
A_23_P36226	6.11E-03	0.2735903	SLC25A33	solute carrier family 25, member 33
A_33_P3329274	6.10E-03	-0.3464519	PCDHA12	protocadherin alpha 12
A_33_P3237567	6.10E-03	0.5039968	HLA-A	major histocompatibility complex, class I, A
A_23_P487	6.10E-03	0.2929502	UCK2	uridine-cytidine kinase 2
A_33_P3349702	6.09E-03	-0.2978396	LOC400927	TPTE and PTEN homologous inositol lipid phosphatase pseudogene
A_23_P149529	6.09E-03	0.4316725	TACSTD2	tumor-associated calcium signal transducer 2
A_33_P3780572	6.09E-03	0.2570476	LOC401164	uncharacterized LOC401164
A_33_P3241657	6.09E-03	-0.3609475	CAMKMT	calmodulin-lysine N-methyltransferase
A_24_P50818	6.08E-03	-0.3295267	GTF3C3	general transcription factor IIIC, polypeptide 3, 102kDa
A_33_P3303259	6.08E-03	0.3623174	PARP4	poly (ADP-ribose) polymerase family, member 4
A_33_P3332135	6.08E-03	0.5425744	PHOSPHO1	phosphatase, orphan 1
A_33_P3298942	6.08E-03	0.4859664	ATP10B	ATPase, class V, type 10B
A_33_P3267160	6.08E-03	-0.4481919		
A_33_P3317880	6.08E-03	-0.3149316	ZNF252	zinc finger protein 252
A_23_P368145	6.08E-03	-0.3329664	GORAB	golgin, RAB6-interacting
A_23_P162486	6.08E-03	-0.2951267	PTPN6	protein tyrosine phosphatase, non-receptor type 6
A_23_P78734	6.08E-03	0.6727252	MYH14	myosin, heavy chain 14, non-muscle
A_24_P184799	6.08E-03	-0.3346754	COCH	coagulation factor C homolog, cochlin (Limulus polyphemus)
A_24_P319684	6.07E-03	-0.4744473	CCDC121	coiled-coil domain containing 121
A_32_P157208	6.07E-03	0.3367163	LOC572558	uncharacterized LOC572558

A_33_P3388357	6.07E-03	0.3084545	WDR87	WD repeat domain 87
A_23_P135611	6.06E-03	-0.360751	DALRD3	DALR anticodon binding domain containing 3
A_23_P87964	6.06E-03	-0.4090462	ESD	esterase D
A_33_P3728698	6.05E-03	0.5769794	FLJ45248	FLJ45248 protein
A_24_P291401	6.05E-03	0.6131044	TMEM150A	transmembrane protein 150A
A_24_P49533	6.05E-03	-0.2632195	ZYG11B	zyg-11 homolog B (C. elegans)
A_24_P165595	6.05E-03	-0.2448095	ARL5A	ADP-ribosylation factor-like 5A
A_33_P3219454	6.05E-03	0.4825482		
A_24_P397515	6.05E-03	-0.3335201	HMGN4	high mobility group nucleosomal binding domain 4
A_33_P3291614	6.04E-03	-0.2872715	LOC100133039	uncharacterized LOC100133039
A_33_P3393708	6.04E-03	0.2576632		
A_24_P224998	6.04E-03	-0.3094958		
A_23_P74668	6.04E-03	-0.6602292	C1orf158	chromosome 1 open reading frame 158
A_23_P131383	6.03E-03	-0.4067403	FANCL	Fanconi anemia, complementation group L
A_24_P376707	6.03E-03	0.4103813	HMGF	hepatoma-derived growth factor
A_33_P3253420	6.03E-03	0.2229149		
A_23_P87879	6.03E-03	0.1942587	CD69	CD69 molecule
A_23_P258964	6.03E-03	0.2596147	IARS	isoleucyl-tRNA synthetase
A_23_P76350	6.02E-03	0.7211939	GNB3	guanine nucleotide binding protein (G protein), beta polypeptide 3
A_23_P315843	6.01E-03	0.3470302	NCOA5	nuclear receptor coactivator 5
A_24_P321125	6.01E-03	-0.3237391	LRRC18	leucine rich repeat containing 18
A_23_P254404	6.01E-03	0.5580195	SNX33	sorting nexin 33
A_24_P475349	6.01E-03	-0.2019012	RAB6B	RAB6B, member RAS oncogene family
A_33_P3286774	6.01E-03	-0.283764	PDE4DIP	phosphodiesterase 4D interacting protein
A_33_P3273732	6.00E-03	0.292241		
A_23_P38328	6.00E-03	0.2634348	DBF4B	DBF4 homolog B (S. cerevisiae)
A_23_P80940	6.00E-03	-0.356079	PPAT	phosphoribosyl pyrophosphate amidotransferase
A_33_P3260175	6.00E-03	0.4104364	LOC100132147	uncharacterized LOC100132147
A_24_P166613	5.99E-03	-0.4540214	EPDR1	ependymin related protein 1 (zebrafish)
A_33_P3219295	5.99E-03	-0.3272324		
A_33_P3326992	5.99E-03	-0.3236689	PDE4DIP	phosphodiesterase 4D interacting protein
A_33_P3268634	5.99E-03	0.2449051	WIBG	within bgcn homolog (Drosophila)
A_33_P3398897	5.99E-03	-0.4328906	QDPR	quinoid dihydropteridine reductase
A_23_P110571	5.99E-03	0.452267	MAST4	microtubule associated serine/threonine kinase family member 4
A_33_P3345294	5.98E-03	0.3776608		
A_33_P3366493	5.98E-03	0.3664019		
A_23_P17307	5.97E-03	0.2889842	C20orf20	chromosome 20 open reading frame 20
A_33_P3407700	5.97E-03	-0.3342894	TMEM192	transmembrane protein 192
A_33_P3240318	5.96E-03	0.5806289	PITX3	paired-like homeodomain 3
A_33_P3244593	5.95E-03	-0.360346	FHAD1	forkhead-associated (FHA) phosphopeptide binding domain 1
A_33_P3265704	5.95E-03	-0.21527	UFD1L	ubiquitin fusion degradation 1 like (yeast)

A_32_P206050	5.94E-03	-0.2392825	TBC1D30	TBC1 domain family, member 30
A_33_P3243128	5.94E-03	-0.4232281	COQ5	coenzyme Q5 homolog, methyltransferase (<i>S. cerevisiae</i>)
A_33_P3422659	5.94E-03	-0.5458107	GDAP1	ganglioside-induced differentiation-associated protein 1
A_33_P3233560	5.94E-03	-0.1548972	UROS	uroporphyrinogen III synthase
A_24_P66780	5.94E-03	0.2745226	FAM83B	family with sequence similarity 83, member B
A_24_P363408	5.93E-03	-0.5227962	HEY2	hairy/enhancer-of-split related with YRPW motif 2
A_33_P3254460	5.92E-03	-1.2457071	DLK2	delta-like 2 homolog (<i>Drosophila</i>)
A_33_P3316073	5.92E-03	-0.2424001	INTS6	integrator complex subunit 6
A_33_P3322103	5.90E-03	0.276126		
A_33_P3302165	5.90E-03	-0.4484057	ABHD8	abhydrolase domain containing 8
A_33_P3215906	5.90E-03	-0.4161061	NBPF10	neuroblastoma breakpoint family, member 10
A_23_P62764	5.90E-03	-0.3260988	CCDC28B	coiled-coil domain containing 28B
A_23_P89902	5.90E-03	-0.4399641	RTN2	reticulon 2
A_23_P92082	5.90E-03	-0.5334095	TKT	transketolase
A_23_P314145	5.89E-03	-0.5041597	UST	uronyl-2-sulfotransferase
A_23_P87591	5.89E-03	-0.3233854	YEATS4	YEATS domain containing 4
A_24_P336137	5.89E-03	-0.7920908	C22orf23	chromosome 22 open reading frame 23
A_33_P3259750	5.89E-03	0.2670554		
A_32_P133518	5.88E-03	-0.3018823		
A_24_P247978	5.88E-03	-0.2817745	ZNF589	zinc finger protein 589
A_33_P3288384	5.88E-03	-0.2922068	PSMA1	proteasome (prosome, macropain) subunit, alpha type, 1
A_24_P4877	5.88E-03	-0.3380767	ZCRB1	zinc finger CCHC-type and RNA binding motif 1
A_24_P383850	5.88E-03	-0.2160916	EIF4G3	eukaryotic translation initiation factor 4 gamma, 3
A_23_P64121	5.87E-03	0.2532013	C11orf41	chromosome 11 open reading frame 41
A_23_P99172	5.87E-03	-0.3123841	CCDC77	coiled-coil domain containing 77
A_33_P3209386	5.86E-03	0.5428105	TXNDC17	thioredoxin domain containing 17
A_24_P85537	5.86E-03	0.323402	MAP3K13	mitogen-activated protein kinase kinase kinase 13
A_33_P3308101	5.86E-03	0.3158444	LOC401357	uncharacterized LOC401357
A_33_P3384710	5.86E-03	0.2384048	C17orf63	chromosome 17 open reading frame 63
A_23_P334727	5.86E-03	-0.2274153	NRG4	neuregulin 4
A_23_P57807	5.86E-03	-0.2004097	MKRN2	makorin ring finger protein 2
A_23_P208238	5.86E-03	0.2441449	ZNF137P	zinc finger protein 137, pseudogene
A_23_P107513	5.85E-03	-0.2681078	CEP76	centrosomal protein 76kDa
A_24_P68183	5.85E-03	-0.1912103	EGFEM1P	EGF-like and EMI domain containing 1, pseudogene
A_33_P3339650	5.85E-03	-0.3548325	DST	dystonin
A_24_P242132	5.84E-03	-0.24867	NRBP2	nuclear receptor binding protein 2
A_23_P48029	5.84E-03	0.3008231	CLEC4A	C-type lectin domain family 4, member A
A_33_P3283083	5.83E-03	0.3490958	INPP4B	inositol polyphosphate-4-phosphatase, type II, 105kDa
A_23_P162982	5.83E-03	-0.3445784	DHRS4	dehydrogenase/reductase (SDR family) member 4
A_23_P62907	5.83E-03	0.3081779	ATF6	activating transcription factor 6
A_33_P3246613	5.82E-03	-0.3320023	CCDC78	coiled-coil domain containing 78

A_23_P84202	5.82E-03	0.2670229	WDR25	WD repeat domain 25
A_33_P3336642	5.81E-03	-0.4315645	THOC3	THO complex 3
A_23_P251927	5.80E-03	-0.2497116	CHCHD3	coiled-coil-helix-coiled-coil-helix domain containing 3
A_23_P253464	5.80E-03	-0.251569	FAM175A	family with sequence similarity 175, member A
A_32_P177955	5.80E-03	-0.2887724	LOC441461	uncharacterized LOC441461
A_33_P3257170	5.80E-03	-0.343479	PRR3	proline rich 3
A_23_P87238	5.79E-03	0.8624571	SAA4	serum amyloid A4, constitutive
A_24_P33461	5.79E-03	0.4059254		
A_33_P3283300	5.79E-03	0.3675851	FAM204A	family with sequence similarity 204, member A
A_32_P207180	5.79E-03	-0.2445131	ARL16	ADP-ribosylation factor-like 16
A_33_P3319155	5.79E-03	-0.3303833	ACP1	acid phosphatase 1, soluble
A_23_P133956	5.78E-03	-0.4475408	KIFC1	kinesin family member C1
A_24_P49447	5.78E-03	0.2076623	KIAA1432	KIAA1432
A_33_P3390570	5.78E-03	0.417196	MLL	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila)
A_33_P3223088	5.78E-03	0.2545034	MRPL19	mitochondrial ribosomal protein L19
A_24_P690924	5.77E-03	0.3261107	SEC23B	Sec23 homolog B (<i>S. cerevisiae</i>)
A_33_P3276435	5.76E-03	-0.726877	FILIP1	filamin A interacting protein 1
A_33_P3364263	5.76E-03	0.4036802	LBH	limb bud and heart development homolog (mouse)
A_33_P3382919	5.76E-03	0.8434635	LOC100130587	uncharacterized LOC100130587
A_24_P22939	5.75E-03	0.3182769	ADAMTSL5	ADAMTS-like 5
A_24_P66001	5.75E-03	-0.317184	UQCR10	ubiquinol-cytochrome c reductase, complex III subunit X
A_33_P3380462	5.75E-03	0.2900859	GPR88	G protein-coupled receptor 88
A_23_P409386	5.75E-03	0.6002522	SLC25A22	solute carrier family 25 (mitochondrial carrier: glutamate), member 22
A_32_P190769	5.74E-03	-0.1726959	C1QTNF7	C1q and tumor necrosis factor related protein 7
A_23_P10182	5.74E-03	-0.3159072	ACOX2	acyl-CoA oxidase 2, branched chain
A_33_P3343106	5.74E-03	-0.6160811	ETV2	ets variant 2
A_23_P35591	5.74E-03	-0.2929999	EXOSC1	exosome component 1
A_33_P3224660	5.74E-03	0.2423423	ABCD1	ATP-binding cassette, sub-family D (ALD), member 1
A_32_P161762	5.73E-03	0.4679562	RUNX2	runt-related transcription factor 2
A_23_P68577	5.73E-03	0.3761568	HSPC072	uncharacterized LOC29075
A_24_P7085	5.73E-03	-0.4651756	RPL29P2	ribosomal protein L29 pseudogene 2
A_24_P341089	5.73E-03	-0.4549205	ANKRD36BP2	ankyrin repeat domain 36B pseudogene 2
A_23_P139198	5.73E-03	0.3008435	LGALS12	lectin, galactoside-binding, soluble, 12
A_23_P167828	5.72E-03	-0.3632412	RWDD1	RWD domain containing 1
A_23_P104641	5.72E-03	-0.4420868	C11orf2	chromosome 11 open reading frame 2
A_23_P406227	5.72E-03	-0.2807764	MGC23284	uncharacterized LOC197187
A_23_P169197	5.71E-03	-0.2033867	HSDL2	hydroxysteroid dehydrogenase like 2
A_33_P3316621	5.70E-03	-0.4716368	BMP3	bone morphogenetic protein 3
A_33_P3250253	5.70E-03	0.5401289	LOC100131150	uncharacterized LOC100131150
A_33_P3395074	5.70E-03	0.4051834	PLSCR3	phospholipid scramblase 3
A_33_P3247540	5.68E-03	-0.26496	LOC389834	ankyrin repeat domain 57 pseudogene

A_32_P86739	5.68E-03	-0.4561048	C10orf114	chromosome 10 open reading frame 114
A_23_P106661	5.68E-03	0.3994841	CMTM1	CKLF-like MARVEL transmembrane domain containing 1
A_33_P3239102	5.68E-03	0.6876477		
A_23_P103442	5.68E-03	-0.2359306	MEAF6	MYST/Esa1-associated factor 6
A_23_P43580	5.67E-03	-0.4622137	CNTRL	centriolin
A_24_P322229	5.67E-03	0.2094349	RASL10B	RAS-like, family 10, member B
A_33_P3250068	5.66E-03	-0.4481368	SNX17	sorting nexin 17
A_32_P159612	5.66E-03	0.4270919	ACCN1	amiloride-sensitive cation channel 1, neuronal
A_33_P3415086	5.66E-03	-0.1701801		
A_23_P203829	5.66E-03	-0.4416706	ZNF10	zinc finger protein 10
A_24_P182947	5.66E-03	-0.2257862	GCET2	germinal center expressed transcript 2
A_24_P416645	5.66E-03	1.2226054	KLK13	kallikrein-related peptidase 13
A_33_P3310104	5.66E-03	0.3949827	SERPINB5	serpin peptidase inhibitor, clade B (ovalbumin), member 5
A_23_P374844	5.66E-03	0.9220466	GAL	galanin prepropeptide
A_33_P3338036	5.65E-03	-0.1862803	ZNF470	zinc finger protein 470
A_33_P3416966	5.64E-03	-0.222333	C6orf168	chromosome 6 open reading frame 168
A_33_P3270147	5.64E-03	0.2422557		
A_24_P135322	5.64E-03	0.4631325	NRP1	neuropilin 1
A_23_P154771	5.64E-03	0.351443	DUSP15	dual specificity phosphatase 15
A_23_P45304	5.63E-03	-0.4344183	XK	X-linked Kx blood group (McLeod syndrome)
A_32_P168464	5.62E-03	-0.5991374	CASK	calcium/calmodulin-dependent serine protein kinase (MAGUK family)
A_33_P3324206	5.62E-03	0.405434	HR	hairless homolog (mouse)
A_24_P224727	5.62E-03	-0.5265401	CEBPA	CCAAT/enhancer binding protein (C/EBP), alpha
A_23_P34983	5.62E-03	-0.3513224	JTB	jumping translocation breakpoint
A_33_P3242820	5.62E-03	0.6955528	LOC115110	uncharacterized LOC115110
A_32_P183218	5.62E-03	-0.57061	ZNF367	zinc finger protein 367
A_33_P3377994	5.62E-03	0.485533	WNK4	WNK lysine deficient protein kinase 4
A_33_P3273664	5.62E-03	-0.259436	ARSK	arylsulfatase family, member K
A_24_P388786	5.61E-03	-0.7028266	DNAH5	dynein, axonemal, heavy chain 5
A_33_P3396537	5.61E-03	-1.3000957	CDHR4	cadherin-related family member 4
A_23_P41066	5.61E-03	0.2813713	RASSF1	Ras association (RalGDS/AF-6) domain family member 1
A_23_P122976	5.60E-03	-0.2656307	GNAI1	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 1
A_23_P46690	5.60E-03	-0.320783	TMEM81	transmembrane protein 81
A_23_P6151	5.60E-03	0.7052204	PLAGL2	pleiomorphic adenoma gene-like 2
A_33_P3310864	5.60E-03	0.3070551	ACP2	acid phosphatase 2, lysosomal
A_23_P99424	5.60E-03	-0.2827263	TPP2	tripeptidyl peptidase II
A_33_P3334205	5.60E-03	0.2661911	TMEM184A	transmembrane protein 184A
A_33_P3225273	5.60E-03	0.3088237	QSOX1	quiescin Q6 sulfhydryl oxidase 1
A_24_P258235	5.60E-03	-1.1229459	OR5L2	olfactory receptor, family 5, subfamily L, member 2
A_33_P3254390	5.60E-03	-0.4690998	CERKL	ceramide kinase-like
A_23_P108075	5.59E-03	-0.1884516	SLC7A10	solute carrier family 7 (neutral amino acid transporter light chain, asc system), member 10

A_32_P219520	5.59E-03	0.4476226	TNFAIP8	tumor necrosis factor, alpha-induced protein 8
A_33_P3245484	5.59E-03	-0.2256878	LOC100131000	uncharacterized LOC100131000
A_32_P91902	5.59E-03	0.497939	TSPAN14	tetraspanin 14
A_23_P428992	5.58E-03	-0.3522134	LOC93622	Morf4 family associated protein 1-like 1 pseudogene
A_33_P3691860	5.58E-03	-0.3156788	FAM122B	family with sequence similarity 122B
A_24_P114249	5.58E-03	0.3342016	GALNT3	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 3 (GalNAc-T3)
A_23_P30983	5.58E-03	-0.5750096	GJB7	gap junction protein, beta 7, 25kDa
A_33_P3651911	5.58E-03	0.501471	LOC286109	uncharacterized LOC286109
A_23_P8482	5.57E-03	-0.3549111	7-Sep	septin 7
A_24_P114339	5.57E-03	0.3521091	RMND5A	required for meiotic nuclear division 5 homolog A (<i>S. cerevisiae</i>)
A_23_P147296	5.57E-03	-0.3688751	NFU1	NFU1 iron-sulfur cluster scaffold homolog (<i>S. cerevisiae</i>)
A_23_P410224	5.57E-03	-0.4372685	C6orf52	chromosome 6 open reading frame 52
A_33_P3372682	5.57E-03	0.4878825	CN5H6.4	uncharacterized LOC150384
A_33_P3392823	5.57E-03	-0.2806906	USE1	unconventional SNARE in the ER 1 homolog (<i>S. cerevisiae</i>)
A_24_P942370	5.57E-03	0.3412869	GALNT4	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 4 (GalNAc-T4)
A_33_P3333507	5.57E-03	-0.3130535	SEN7	SUMO1/sentrin specific peptidase 7
A_33_P3267482	5.57E-03	0.6801127	KIAA1804	mixed lineage kinase 4
A_33_P3248024	5.56E-03	0.2669204		
A_33_P3235262	5.54E-03	-0.3075192	PIP5KL1	phosphatidylinositol-4-phosphate 5-kinase-like 1
A_23_P73848	5.53E-03	-0.3648647	NCRNA00185	non-protein coding RNA 185
A_24_P926195	5.53E-03	-0.2519476	MAN1A2	mannosidase, alpha, class 1A, member 2
A_33_P3244317	5.53E-03	0.3639743	MESDC2	mesoderm development candidate 2
A_23_P33856	5.53E-03	-0.3635132	STAG2	stromal antigen 2
A_23_P374919	5.53E-03	-0.7135595	LRRC71	leucine rich repeat containing 71
A_24_P347624	5.53E-03	-0.4099039	SNURF	SNRPN upstream reading frame
A_23_P333498	5.53E-03	-0.4645768	EEPD1	endonuclease/exonuclease/phosphatase family domain containing 1
A_23_P53668	5.53E-03	-0.3798621	NFYB	nuclear transcription factor Y, beta
A_32_P150891	5.53E-03	-0.3439557	DIAPH3	diaphanous homolog 3 (<i>Drosophila</i>)
A_33_P3705275	5.52E-03	-0.1971108	DPY19L3	dpy-19-like 3 (<i>C. elegans</i>)
A_33_P3406836	5.52E-03	-0.252077	HTR1F	5-hydroxytryptamine (serotonin) receptor 1F
A_23_P63402	5.52E-03	-0.4850224	GPSM2	G-protein signaling modulator 2
A_23_P35970	5.52E-03	-0.2533274	SLC37A4	solute carrier family 37 (glucose-6-phosphate transporter), member 4
A_23_P211428	5.51E-03	0.517503	SMTN	smoothelin
A_33_P3221313	5.51E-03	-0.3752661	CENPI	centromere protein I
A_33_P3293785	5.51E-03	0.3740213	KRTAP10-3	keratin associated protein 10-3
A_23_P50674	5.51E-03	-0.3279415	IZUMO4	IZUMO family member 4
A_23_P35293	5.51E-03	0.359806	GJB5	gap junction protein, beta 5, 31.1kDa
A_23_P419696	5.50E-03	-0.322245	LYPD1	LY6/PLAUR domain containing 1
A_32_P147622	5.50E-03	-0.3663207	MCF2L-AS1	MCF2L antisense RNA 1 (non-protein coding)
A_33_P3417626	5.49E-03	-0.1803914	ENHO	energy homeostasis associated
A_24_P161036	5.49E-03	-0.2729749	ACOT1	acyl-CoA thioesterase 1

A_33_P3316691	5.49E-03	0.4496025		
A_24_P97526	5.49E-03	-0.430761	CMTM6	CKLF-like MARVEL transmembrane domain containing 6
A_33_P3242264	5.49E-03	0.2830572	NSUN4	NOP2/Sun domain family, member 4
A_33_P3299110	5.49E-03	0.6817828	ARHGAP42	Rho GTPase activating protein 42
A_33_P3305958	5.49E-03	0.1961348	TECPR2	tectonin beta-propeller repeat containing 2
A_23_P167997	5.49E-03	0.3766262	HIST1H2BG	histone cluster 1, H2bg
A_24_P910688	5.48E-03	0.1807213	C19orf67	chromosome 19 open reading frame 67
A_33_P3336527	5.48E-03	-0.3043537	PDXDC1	pyridoxal-dependent decarboxylase domain containing 1
A_23_P212284	5.48E-03	-0.4347271	POC1A	POC1 centriolar protein homolog A (Chlamydomonas)
A_32_P182394	5.47E-03	-0.3261355	ZNF77	zinc finger protein 77
A_33_P3663974	5.47E-03	0.4464424	THRB	thyroid hormone receptor, beta
A_33_P3474859	5.46E-03	-0.7056208	LOC203274	uncharacterized LOC203274
A_24_P360269	5.46E-03	-0.4734838	RNASET2	ribonuclease T2
A_23_P387045	5.46E-03	-0.1878103	CCDC107	coiled-coil domain containing 107
A_23_P171359	5.45E-03	0.2910236	WDR44	WD repeat domain 44
A_23_P75083	5.45E-03	-0.312967	ZMYND11	zinc finger, MYND-type containing 11
A_23_P16058	5.45E-03	0.2715878	ZNF296	zinc finger protein 296
A_33_P3220213	5.45E-03	-0.5905083	ARMC3	armadillo repeat containing 3
A_23_P309950	5.44E-03	-0.287515	FAM178A	family with sequence similarity 178, member A
A_23_P417261	5.44E-03	-1.3101599	EFHB	EF-hand domain family, member B
A_23_P212756	5.44E-03	-0.2349518	GRK4	G protein-coupled receptor kinase 4
A_32_P743184	5.43E-03	-0.1942333	DPPA3	developmental pluripotency associated 3
A_33_P3385870	5.43E-03	-0.2924923	CCNG2	cyclin G2
A_24_P687582	5.43E-03	0.4846915	TADA2B	transcriptional adaptor 2B
A_24_P280926	5.43E-03	-0.3027744		
A_33_P3320077	5.42E-03	-0.3914279	NFIB	nuclear factor I/B
A_24_P379165	5.42E-03	-0.3569178	FOXO4	forkhead box O4
A_23_P436138	5.42E-03	0.2639199	MAX	MYC associated factor X
A_23_P118435	5.41E-03	-0.3193446	SUMO2	SMT3 suppressor of mif two 3 homolog 2 (S. cerevisiae)
A_23_P129188	5.41E-03	-0.781306	CALML4	calmodulin-like 4
A_24_P281395	5.41E-03	-0.3784915		
A_33_P3354569	5.41E-03	0.3323525	GPD2	glycerol-3-phosphate dehydrogenase 2 (mitochondrial)
A_32_P26330	5.41E-03	0.58611	USP10	ubiquitin specific peptidase 10
A_23_P419503	5.41E-03	0.2575129	LRRC4B	leucine rich repeat containing 4B
A_24_P40529	5.41E-03	-0.2361756	TMLHE	trimethyllysine hydroxylase, epsilon
A_33_P3299066	5.40E-03	0.6665588	NR4A2	nuclear receptor subfamily 4, group A, member 2
A_24_P7965	5.40E-03	0.4030819	ESRRG	estrogen-related receptor gamma
A_33_P3214096	5.40E-03	0.8017922	ATF3	activating transcription factor 3
A_24_P23951	5.40E-03	0.6061106	BCRP2	breakpoint cluster region pseudogene 2
A_33_P3844650	5.39E-03	-0.4304425	ANGPTL2	angiopoietin-like 2
A_23_P84744	5.39E-03	-0.4649299	HYDIN	hydrocephalus inducing homolog (mouse)

A_24_P39639	5.39E-03	0.3071384	EXOSC6	exosome component 6
A_33_P3307049	5.38E-03	0.5694749	LOC100129363	uncharacterized LOC100129363
A_33_P3308263	5.38E-03	-0.2215744	DIRC2	disrupted in renal carcinoma 2
A_33_P3418942	5.38E-03	-0.3350188	NUDT21	nudix (nucleoside diphosphate linked moiety X)-type motif 21
A_23_P42718	5.38E-03	0.3610715	NFE2L3	nuclear factor (erythroid-derived 2)-like 3
A_33_P3419735	5.37E-03	0.2404917		
A_23_P35645	5.37E-03	-0.3181698	RBM17	RNA binding motif protein 17
A_24_P3140	5.37E-03	-0.3742161	ZNF638	zinc finger protein 638
A_33_P3352340	5.36E-03	0.3542026	KRTAP9-1	keratin associated protein 9-1
A_23_P205611	5.36E-03	0.3345159	GMFB	glia maturation factor, beta
A_23_P43779	5.36E-03	-0.3324679	COPS4	COP9 constitutive photomorphogenic homolog subunit 4 (Arabidopsis)
A_33_P3294583	5.36E-03	-0.2347463	LOC256880	uncharacterized LOC256880
A_23_P216549	5.36E-03	0.261592	RUSC2	RUN and SH3 domain containing 2
A_33_P3265494	5.36E-03	-0.490972	C6orf138	chromosome 6 open reading frame 138
A_23_P42282	5.35E-03	0.9187017	C4B	complement component 4B (Chido blood group)
A_23_P67399	5.35E-03	0.5024394	STRN4	striatin, calmodulin binding protein 4
A_33_P3281552	5.35E-03	-0.253441	RPGR	retinitis pigmentosa GTPase regulator
A_33_P3414799	5.33E-03	0.3399195	SH3BP2	SH3-domain binding protein 2
A_23_P385105	5.33E-03	-0.3437029	PLCD4	phospholipase C, delta 4
A_23_P58489	5.33E-03	-0.3522689	FASTKD3	FAST kinase domains 3
A_23_P380298	5.31E-03	-0.2371653	ProSAPiP1	ProSAPiP1 protein
A_23_P390726	5.31E-03	-0.3216763	TTC23L	tetratricopeptide repeat domain 23-like
A_33_P3329949	5.31E-03	-0.2527218	ANXA7	annexin A7
A_33_P3300117	5.31E-03	0.2137172		
A_23_P204158	5.31E-03	-0.2926651	RNFT2	ring finger protein, transmembrane 2
A_23_P74435	5.31E-03	-0.1785578	C1orf50	chromosome 1 open reading frame 50
A_24_P116669	5.30E-03	0.3096708	CANT1	calcium activated nucleotidase 1
A_23_P421306	5.30E-03	-0.5607904	SYT12	synaptotagmin XII
A_24_P562369	5.30E-03	-0.2310545		
A_23_P148969	5.30E-03	-0.3938566	LRRC40	leucine rich repeat containing 40
A_24_P98385	5.29E-03	-0.265844	RNF20	ring finger protein 20
A_23_P366328	5.29E-03	0.2903957	VPS37A	vacuolar protein sorting 37 homolog A (S. cerevisiae)
A_23_P141345	5.29E-03	0.3453495	MPP3	membrane protein, palmitoylated 3 (MAGUK p55 subfamily member 3)
A_23_P157580	5.29E-03	-0.3438249	SDCBP	syndecan binding protein (syntenin)
A_24_P219920	5.29E-03	0.4435204	FEM1A	fem-1 homolog a (C. elegans)
A_23_P155332	5.28E-03	-0.2414116	PCNP	PEST proteolytic signal containing nuclear protein
A_23_P144746	5.28E-03	-0.2645427	ZNF454	zinc finger protein 454
A_33_P3383246	5.28E-03	0.307426	OR52R1	olfactory receptor, family 52, subfamily R, member 1
A_23_P46539	5.28E-03	-0.4065484	PSRC1	proline/serine-rich coiled-coil 1
A_33_P3343200	5.28E-03	0.7316486		
A_33_P3396239	5.28E-03	-0.3658898	SNRPD3	small nuclear ribonucleoprotein D3 polypeptide 18kDa

A_23_P26294	5.28E-03	0.5601148	TPSG1	tryptase gamma 1
A_23_P150009	5.27E-03	-0.3535181	ZDHHC16	zinc finger, DHHC-type containing 16
A_23_P29096	5.27E-03	0.2699579	PDE9A	phosphodiesterase 9A
A_33_P3262191	5.27E-03	0.2738431	CPNE7	copine VII
A_23_P159920	5.27E-03	0.3031525	IKBKG	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase gamma
A_24_P917886	5.27E-03	0.7258096	MUC5AC	mucin 5AC, oligomeric mucus/gel-forming
A_33_P3371785	5.26E-03	0.7649527	DTNA	dystrobrevin, alpha
A_24_P292964	5.26E-03	-0.2680885	CDK5RAP3	CDK5 regulatory subunit associated protein 3
A_23_P128008	5.26E-03	-0.6129551	CCDC81	coiled-coil domain containing 81
A_24_P410587	5.25E-03	-0.2911754	AMZ2P1	archaelysin family metallopeptidase 2 pseudogene 1
A_33_P3366903	5.25E-03	0.4833484	CHST6	carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 6
A_33_P3283906	5.25E-03	0.787338	NIP7	nuclear import 7 homolog (S. cerevisiae)
A_33_P3334791	5.25E-03	0.2230441	C1orf85	chromosome 1 open reading frame 85
A_33_P3263841	5.25E-03	0.2422351	RCHY1	ring finger and CHY zinc finger domain containing 1
A_33_P3214072	5.25E-03	0.4658009	LOC729175	uncharacterized LOC729175
A_23_P144896	5.24E-03	0.5697296	PDLIM7	PDZ and LIM domain 7 (enigma)
A_24_P20120	5.24E-03	-0.3739536	CCDC88A	coiled-coil domain containing 88A
A_23_P211007	5.24E-03	0.4112437	NRIP1	nuclear receptor interacting protein 1
A_33_P3257627	5.23E-03	0.3915589		
A_24_P106357	5.23E-03	-0.4086847	WDR36	WD repeat domain 36
A_33_P3304824	5.22E-03	-0.2779447		
A_33_P3209351	5.22E-03	0.2982015	IARS	isoleucyl-tRNA synthetase
A_24_P82106	5.22E-03	0.6864635	MMP14	matrix metallopeptidase 14 (membrane-inserted)
A_33_P3227225	5.22E-03	0.3282565		
A_33_P3406505	5.22E-03	0.2673579	ELL	elongation factor RNA polymerase II
A_32_P226186	5.21E-03	-0.4878714	KIAA1549	KIAA1549
A_23_P147888	5.21E-03	-0.2629691	RPLP2	ribosomal protein, large, P2
A_33_P3209005	5.21E-03	-0.1743164	ZNF673	zinc finger family member 673
A_33_P3283167	5.21E-03	-0.3140887		
A_24_P360529	5.20E-03	-0.3322874	PDE7A	phosphodiesterase 7A
A_23_P422245	5.20E-03	-0.47748	KIAA0825	KIAA0825
A_33_P3842770	5.20E-03	-0.4674816	LOC6444450	uncharacterized LOC6444450
A_33_P3297255	5.20E-03	-0.2449585	MXD3	MAX dimerization protein 3
A_24_P64233	5.20E-03	0.3109142	ALDH1B1	aldehyde dehydrogenase 1 family, member B1
A_33_P3257817	5.20E-03	0.4079561		
A_33_P3227880	5.19E-03	0.3770595	BTN3A2	butyrophilin, subfamily 3, member A2
A_23_P6119	5.19E-03	0.4090199	SEC23B	Sec23 homolog B (S. cerevisiae)
A_33_P3232273	5.18E-03	-0.2407197		
A_33_P3346333	5.17E-03	-0.2202057		
A_23_P132175	5.17E-03	0.5488164	RTN4R	reticulon 4 receptor
A_23_P167882	5.17E-03	0.2129466	IL17F	interleukin 17F

A_24_P410582	5.17E-03	-0.4396708	VGLL4	vestigial like 4 (Drosophila)
A_24_P109101	5.17E-03	1.0574132	TMPRSS11A	transmembrane protease, serine 11A
A_23_P70785	5.16E-03	0.5755665	AIM1	absent in melanoma 1
A_33_P3379726	5.15E-03	-0.4592056	CCDC106	coiled-coil domain containing 106
A_24_P79617	5.14E-03	0.3578356	KIAA0040	KIAA0040
A_33_P3220565	5.14E-03	0.3366857	UBTD2	ubiquitin domain containing 2
A_33_P3265355	5.14E-03	-0.4505397	SNRPE	small nuclear ribonucleoprotein polypeptide E
A_23_P89780	5.13E-03	0.7656428	LAMA3	laminin, alpha 3
A_23_P18939	5.13E-03	0.5163376	RASA1	RAS p21 protein activator (GTPase activating protein) 1
A_33_P3418731	5.12E-03	-0.4532495	ZNF542	zinc finger protein 542
A_33_P3301782	5.12E-03	-0.3394826	ZEB1-AS1	ZEB1 antisense RNA 1 (non-protein coding)
A_33_P3259058	5.12E-03	-0.3231698	PSMG4	proteasome (prosome, macropain) assembly chaperone 4
A_23_P165676	5.12E-03	-0.2464472	MZT2A	mitotic spindle organizing protein 2A
A_23_P69100	5.11E-03	-0.3017115	ARHGEF26	Rho guanine nucleotide exchange factor (GEF) 26
A_33_P3409740	5.11E-03	0.4008435	LOC649294	uncharacterized LOC649294
A_33_P3272773	5.11E-03	0.2659473	ZNF217	zinc finger protein 217
A_23_P168019	5.10E-03	-0.2632178	ZKSCAN3	zinc finger with KRAB and SCAN domains 3
A_23_P315571	5.10E-03	0.6497885	RFTN1	raftlin, lipid raft linker 1
A_23_P117037	5.09E-03	-0.3693211	LETMD1	LETM1 domain containing 1
A_33_P3323136	5.09E-03	-1.0841945	ENKUR	enkurin, TRPC channel interacting protein
A_23_P105625	5.09E-03	-0.3728948	COQ5	coenzyme Q5 homolog, methyltransferase (S. cerevisiae)
A_33_P3229122	5.09E-03	-0.3576052	HIST1H2BF	histone cluster 1, H2bf
A_33_P3404331	5.08E-03	0.2843527	TAB2	TGF-beta activated kinase 1/MAP3K7 binding protein 2
A_24_P418816	5.08E-03	-0.2651267	GPX7	glutathione peroxidase 7
A_23_P311358	5.08E-03	0.5200203	ZNF282	zinc finger protein 282
A_24_P144439	5.08E-03	-0.8493847	EFHB	EF-hand domain family, member B
A_33_P3343812	5.07E-03	0.2135499	OR1L6	olfactory receptor, family 1, subfamily L, member 6
A_23_P152136	5.07E-03	-0.2465448	GIN3	GIN5 complex subunit 3 (Psf3 homolog)
A_32_P126229	5.07E-03	-1.0060058	FLJ23152	uncharacterized LOC401236
A_24_P940166	5.07E-03	-0.6383118	PAPSS2	3'-phosphoadenosine 5'-phosphosulfate synthase 2
A_23_P344451	5.07E-03	-0.2750532	HDGFRP3	hepatoma-derived growth factor, related protein 3
A_33_P3361611	5.06E-03	0.4377517	PLA2G4D	phospholipase A2, group IVD (cytosolic)
A_33_P3323914	5.06E-03	0.4987186		
A_23_P208210	5.06E-03	0.3283198	ZNF432	zinc finger protein 432
A_33_P3358908	5.06E-03	0.6200119	KRTAP9-6	keratin associated protein 9-6
A_33_P3246553	5.05E-03	0.2642694	GRIK3	glutamate receptor, ionotropic, kainate 3
A_33_P3231833	5.05E-03	-0.3303925	ACOT8	acyl-CoA thioesterase 8
A_33_P3401621	5.04E-03	-0.3651937	CCNB1	cyclin B1
A_33_P3244818	5.04E-03	0.2358884	RSBN1L	round spermatid basic protein 1-like
A_33_P3222753	5.04E-03	-0.3606628	ZNF137P	zinc finger protein 137, pseudogene
A_23_P108028	5.04E-03	-0.4059507	ZNF146	zinc finger protein 146

A_33_P3344039	5.04E-03	-0.5810725	RABL2A	RAB, member of RAS oncogene family-like 2A
A_33_P3218148	5.04E-03	-0.2579374	C5orf42	chromosome 5 open reading frame 42
A_33_P3209055	5.03E-03	0.306041		
A_33_P3318097	5.03E-03	1.3482095	TMPRSS11B	transmembrane protease, serine 11B
A_23_P75647	5.03E-03	0.2890089	HYOU1	hypoxia up-regulated 1
A_24_P113131	5.03E-03	-0.6527563	BZRAP1	benzodiazapine receptor (peripheral) associated protein 1
A_23_P202245	5.03E-03	0.2292766	RET	ret proto-oncogene
A_24_P19268	5.03E-03	-0.2953097	ZNF714	zinc finger protein 714
A_32_P99055	5.03E-03	-0.3745297	WNK3	WNK lysine deficient protein kinase 3
A_33_P3335147	5.02E-03	0.2760942	MURC	muscle-related coiled-coil protein
A_33_P3393175	5.00E-03	-0.4187643	CAPN7	calpain 7
A_23_P360990	5.00E-03	-0.9059461	DYDC1	DPY30 domain containing 1
A_32_P101301	5.00E-03	-0.2408919	USP39	ubiquitin specific peptidase 39
A_24_P16815	5.00E-03	-0.3577796	ZMYM3	zinc finger, MYM-type 3
A_33_P3345708	5.00E-03	-0.238566	CREB3L4	cAMP responsive element binding protein 3-like 4
A_23_P111005	5.00E-03	-0.4299952	YIPF3	Yip1 domain family, member 3
A_32_P453321	4.99E-03	-0.6629416	C1orf228	chromosome 1 open reading frame 228
A_23_P67453	4.99E-03	-0.3702731	TNNI3	troponin I type 3 (cardiac)
A_24_P131580	4.98E-03	0.5594129	ALPPL2	alkaline phosphatase, placental-like 2
A_23_P365767	4.98E-03	-0.3977196	CACNA1D	calcium channel, voltage-dependent, L type, alpha 1D subunit
A_33_P3352767	4.98E-03	0.3677577	MC1R	melanocortin 1 receptor (alpha melanocyte stimulating hormone receptor)
A_33_P3440636	4.98E-03	0.2091598	LOC286071	uncharacterized LOC286071
A_33_P3302681	4.97E-03	0.2822668	TLE4	transducin-like enhancer of split 4 (E(sp1) homolog, Drosophila)
A_33_P3267280	4.97E-03	0.3151336	CTDSP2	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 2
A_33_P3772150	4.97E-03	-0.4436316	ADARB2	adenosine deaminase, RNA-specific, B2
A_33_P3317979	4.97E-03	0.2864537	MYO5B	myosin VB
A_33_P3410484	4.97E-03	0.2016872	SLC13A3	solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3
A_33_P3384871	4.96E-03	-0.3301161	FBXO5	F-box protein 5
A_23_P372946	4.96E-03	0.4198981	TM4SF19	transmembrane 4 L six family member 19
A_33_P3620488	4.96E-03	0.372276	CATSPERG	cation channel, sperm-associated, gamma
A_33_P3380529	4.95E-03	-0.4385881	PRTFDC1	phosphoribosyl transferase domain containing 1
A_24_P32935	4.95E-03	0.5173666	FOLR2	folate receptor 2 (fetal)
A_24_P8088	4.95E-03	-0.2378832	RIOK1	RIO kinase 1 (yeast)
A_23_P106761	4.95E-03	0.7621265	CORO1A	coronin, actin binding protein, 1A
A_33_P3408244	4.95E-03	0.6300774	SPRNP1	shadow of prion protein homolog (zebrafish) pseudogene 1
A_23_P119295	4.94E-03	-0.370722	ECSIT	ECSIT homolog (Drosophila)
A_33_P3304748	4.94E-03	-0.5872253		
A_33_P3265104	4.94E-03	0.2288082	PITRM1	pitrilysin metallopeptidase 1
A_33_P3689678	4.93E-03	-0.277935	LOC285857	uncharacterized LOC285857
A_23_P75441	4.93E-03	-0.3263841	NUDT22	nudix (nucleoside diphosphate linked moiety X)-type motif 22
A_33_P3370163	4.92E-03	0.3386419		

A_33_P3295814	4.92E-03	0.4459917		
A_33_P3266080	4.91E-03	-0.3070572	TAF6L	TAF6-like RNA polymerase II, p300/CBP-associated factor (PCAF)-associated factor, 65kDa
A_33_P3335022	4.91E-03	-0.4949699		
A_23_P212508	4.91E-03	-0.5808494	TF	transferrin
A_33_P3352877	4.90E-03	0.3160345	SPG20	spastic paraplegia 20 (Troyer syndrome)
A_23_P56734	4.90E-03	-0.5416747	HNMT	histamine N-methyltransferase
A_33_P3313221	4.89E-03	-0.2552647	ZNF691	zinc finger protein 691
A_23_P500010	4.89E-03	0.7265778	KLK12	kallikrein-related peptidase 12
A_23_P4919	4.89E-03	0.3247728	KDELRL1	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 1
A_33_P3381827	4.89E-03	0.2758587	OSBPL2	oxysterol binding protein-like 2
A_33_P3372368	4.88E-03	0.3482966	KRT8	keratin 8
A_23_P110569	4.88E-03	0.3042798	TRIM36	tripartite motif containing 36
A_33_P3224307	4.88E-03	-0.2886433	SCARNA12	small Cajal body-specific RNA 12
A_33_P3413741	4.88E-03	-0.4964899	OXTR	oxytocin receptor
A_33_P3335730	4.87E-03	-0.4819034		
A_33_P3389403	4.87E-03	-0.2163268	LOC401220	uncharacterized LOC401220
A_23_P396115	4.87E-03	0.211313	SSX7	synovial sarcoma, X breakpoint 7
A_33_P3297883	4.87E-03	0.2426385	LOC100131796	LP2570
A_23_P132079	4.85E-03	0.2894041	C21orf62	chromosome 21 open reading frame 62
A_23_P301572	4.85E-03	-0.3630128	FAM184B	family with sequence similarity 184, member B
A_33_P3353948	4.85E-03	0.4765594		
A_32_P129288	4.85E-03	0.4142391	RAB1B	RAB1B, member RAS oncogene family
A_24_P184844	4.85E-03	-0.3493303	CHD2	chromodomain helicase DNA binding protein 2
A_23_P103226	4.84E-03	-0.3530427	FAAH	fatty acid amide hydrolase
A_33_P3367577	4.84E-03	-0.25317	EIF4ENIF1	eukaryotic translation initiation factor 4E nuclear import factor 1
A_23_P321261	4.84E-03	0.2718523	ME2	malic enzyme 2, NAD(+)-dependent, mitochondrial
A_33_P3278813	4.84E-03	0.4357816	LOC100127885	uncharacterized LOC100127885
A_33_P3590279	4.84E-03	-0.5551024		
A_23_P54223	4.84E-03	0.5053526	RABGGTA	Rab geranylgeranyltransferase, alpha subunit
A_33_P3423590	4.84E-03	0.6246685	LOC100129275	uncharacterized LOC100129275
A_33_P3256293	4.83E-03	-0.1936772		
A_33_P3251322	4.83E-03	0.4681726	MTMR14	myotubularin related protein 14
A_23_P218579	4.83E-03	-0.5002397	GLB1L	galactosidase, beta 1-like
A_24_P929369	4.82E-03	0.3348196	AP4E1	adaptor-related protein complex 4, epsilon 1 subunit
A_23_P207911	4.82E-03	-0.2794294	TRPV2	transient receptor potential cation channel, subfamily V, member 2
A_24_P358131	4.82E-03	0.270713		
A_23_P312851	4.82E-03	-0.2464872	PMEL	premelanosome protein
A_23_P18282	4.81E-03	-1.3454667	DLEC1	deleted in lung and esophageal cancer 1
A_23_P58521	4.81E-03	-0.3441827	ERCC8	excision repair cross-complementing rodent repair deficiency, complementation group 8
A_23_P16006	4.81E-03	0.28594	ZNF600	zinc finger protein 600
A_23_P326893	4.81E-03	-1.0393134	CCDC151	coiled-coil domain containing 151

A_33_P3211153	4.81E-03	-0.2867332	ANKS3	ankyrin repeat and sterile alpha motif domain containing 3
A_33_P3239347	4.80E-03	0.5173848	NKX3-1	NK3 homeobox 1
A_33_P3345210	4.80E-03	0.3776444	TLCD2	TLC domain containing 2
A_33_P3377294	4.80E-03	0.4865865	TCF7L2	transcription factor 7-like 2 (T-cell specific, HMG-box)
A_33_P3333327	4.80E-03	0.2253435		
A_33_P3216610	4.80E-03	-0.3258574	TMPRSS4	transmembrane protease, serine 4
A_23_P258194	4.79E-03	-0.389525	AIFM3	apoptosis-inducing factor, mitochondrion-associated, 3
A_33_P3399840	4.78E-03	-0.2198906	USP39	ubiquitin specific peptidase 39
A_33_P3405680	4.78E-03	0.4806599		
A_23_P49279	4.78E-03	0.3440048	C16orf87	chromosome 16 open reading frame 87
A_23_P12173	4.78E-03	0.3756272	CRTC2	CREB regulated transcription coactivator 2
A_24_P152325	4.78E-03	0.4790019		
A_33_P3390357	4.78E-03	0.2492839	SPIRE1	spire homolog 1 (Drosophila)
A_33_P3362392	4.78E-03	0.1992996		
A_33_P3259817	4.78E-03	0.3362677	DOCK9	dedicator of cytokinesis 9
A_33_P3268174	4.77E-03	-0.2977167	KBTBD6	kelch repeat and BTB (POZ) domain containing 6
A_33_P3720195	4.77E-03	-0.4806745	LOC375196	uncharacterized LOC375196
A_23_P89710	4.77E-03	-0.4250087	CEP192	centrosomal protein 192kDa
A_33_P3231695	4.77E-03	0.500918	ZNF667	zinc finger protein 667
A_33_P3247599	4.77E-03	-0.2735966	ZNF805	zinc finger protein 805
A_23_P90223	4.77E-03	-0.2647478	ZNF585B	zinc finger protein 585B
A_23_P50535	4.77E-03	0.2669638	DMPK	dystrophia myotonica-protein kinase
A_23_P334864	4.77E-03	0.3965052	FAM126B	family with sequence similarity 126, member B
A_33_P3296772	4.76E-03	-0.2234422	C14orf82	chromosome 14 open reading frame 82
A_24_P252996	4.76E-03	-0.3861648	FOLR3	folate receptor 3 (gamma)
A_33_P3227842	4.75E-03	-0.5118553	EPB41	erythrocyte membrane protein band 4.1 (elliptocytosis 1, RH-linked)
A_24_P53778	4.75E-03	0.218692	ITLN2	intelectin 2
A_33_P3256396	4.75E-03	0.2433955	DOC2B	double C2-like domains, beta
A_24_P181101	4.75E-03	-0.271087	TMEM135	transmembrane protein 135
A_32_P157965	4.75E-03	0.4065369	EIF2S2	eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa
A_23_P361584	4.75E-03	0.4995593	TMEM154	transmembrane protein 154
A_23_P38732	4.75E-03	-0.2260903	CDH2	cadherin 2, type 1, N-cadherin (neuronal)
A_24_P916656	4.75E-03	-0.2678808	CRCP	CGRP receptor component
A_33_P3420747	4.74E-03	-0.3088923	YTHDC2	YTH domain containing 2
A_23_P432591	4.74E-03	0.4795946	CCDC125	coiled-coil domain containing 125
A_24_P371758	4.74E-03	-0.4576605	MRPL36	mitochondrial ribosomal protein L36
A_23_P334173	4.74E-03	-0.4973903	LY75	lymphocyte antigen 75
A_23_P405873	4.74E-03	-0.4462056	C9orf72	chromosome 9 open reading frame 72
A_32_P319200	4.74E-03	0.3462647	GGTLC2	gamma-glutamyltransferase light chain 2
A_33_P3283599	4.73E-03	-0.3272979	ANKRD20A8P	ankyrin repeat domain 20 family, member A8, pseudogene
A_33_P3294917	4.73E-03	-0.3820737	PRUNE2	prune homolog 2 (Drosophila)

A_33_P3229390	4.73E-03	0.6465981		
A_33_P3417936	4.73E-03	-0.2663848	HDAC11	histone deacetylase 11
A_33_P3372389	4.72E-03	0.5293838	NPHP4	nephronophthisis 4
A_24_P68908	4.72E-03	0.3469196	LOC344887	NmrA-like family domain containing 1 pseudogene
A_32_P158355	4.72E-03	-0.3716718	ALG1L	asparagine-linked glycosylation 1-like
A_23_P24192	4.71E-03	0.5770193	RRP12	ribosomal RNA processing 12 homolog (<i>S. cerevisiae</i>)
A_24_P21056	4.71E-03	-0.2330507	PHF14	PHD finger protein 14
A_23_P39088	4.71E-03	-0.2701556	PRMT1	protein arginine methyltransferase 1
A_33_P3304382	4.71E-03	-0.2613115	C8orf38	chromosome 8 open reading frame 38
A_23_P56288	4.69E-03	0.734445	LENG8	leukocyte receptor cluster (LRC) member 8
A_23_P82913	4.69E-03	-0.3434338	TRMT12	tRNA methyltransferase 12 homolog (<i>S. cerevisiae</i>)
A_24_P418536	4.69E-03	-0.5967088		
A_24_P67308	4.69E-03	-0.4032738	RPL19P12	ribosomal protein L19 pseudogene 12
A_33_P3342345	4.69E-03	0.285837	LOC400464	uncharacterized LOC400464
A_24_P288685	4.68E-03	0.3503635	IL13RA1	interleukin 13 receptor, alpha 1
A_33_P3306802	4.68E-03	0.3410758	LOC100130916	HSAL5836
A_33_P3238171	4.68E-03	-0.447113	ZDHHC8	zinc finger, DHHC-type containing 8
A_23_P7342	4.67E-03	-0.6549428	UGT2B10	UDP glucuronosyltransferase 2 family, polypeptide B10
A_24_P173234	4.67E-03	0.3001639	ZNF613	zinc finger protein 613
A_33_P3328061	4.67E-03	-0.4060797		
A_33_P3232993	4.67E-03	0.6260936	MARK2	MAP/microtubule affinity-regulating kinase 2
A_33_P3398564	4.67E-03	-0.3266301	ACAP3	ArfGAP with coiled-coil, ankyrin repeat and PH domains 3
A_33_P3378697	4.66E-03	-0.2174103		
A_33_P3240043	4.66E-03	-0.2136719		
A_33_P3253857	4.66E-03	0.3112825		
A_24_P234415	4.65E-03	0.3720454	STAC	SH3 and cysteine rich domain
A_23_P7253	4.65E-03	-0.2734697	LARP1B	La ribonucleoprotein domain family, member 1B
A_33_P3393694	4.65E-03	-0.7655623	GLTSCR2	glioma tumor suppressor candidate region gene 2
A_33_P3264731	4.65E-03	0.2836914		
A_33_P3369854	4.65E-03	-1.1030925	DNAJB13	DnaJ (Hsp40) homolog, subfamily B, member 13
A_23_P152055	4.65E-03	0.3446021	EFTUD1	elongation factor Tu GTP binding domain containing 1
A_23_P372368	4.65E-03	0.3146916	BRWD1-IT2	BRWD1 intronic transcript 2 (non-protein coding)
A_24_P176255	4.65E-03	0.3253859	GABPB1	GA binding protein transcription factor, beta subunit 1
A_23_P80382	4.64E-03	0.2063062	PRR5	proline rich 5 (renal)
A_32_P172864	4.64E-03	-0.1978838	FAM102B	family with sequence similarity 102, member B
A_23_P25638	4.64E-03	-0.3540426	RNF219	ring finger protein 219
A_23_P23966	4.64E-03	-0.3032673	ZNF488	zinc finger protein 488
A_33_P3331856	4.64E-03	-0.1877523	PDE1C	phosphodiesterase 1C, calmodulin-dependent 70kDa
A_33_P3411165	4.64E-03	0.2278599	MAGEA2B	melanoma antigen family A, 2B
A_23_P12272	4.64E-03	-0.241349	PPP1R8	protein phosphatase 1, regulatory subunit 8
A_33_P3304304	4.64E-03	-0.2513056	STAG2	stromal antigen 2

A_24_P237511	4.64E-03	-0.2929497	EIF1AY	eukaryotic translation initiation factor 1A, Y-linked
A_23_P17855	4.63E-03	0.5236149	TRIOBP	TRIO and F-actin binding protein
A_33_P3221868	4.63E-03	-0.5789431	TMEM216	transmembrane protein 216
A_33_P3263392	4.63E-03	-0.4145147	LOC729696	uncharacterized LOC729696
A_33_P3260307	4.63E-03	-0.3230954	CARHSP1	calcium regulated heat stable protein 1, 24kDa
A_33_P3320943	4.62E-03	-0.4299567		
A_33_P3213311	4.61E-03	0.4960918		
A_23_P137689	4.61E-03	0.4027116	OLFML2B	olfactomedin-like 2B
A_23_P101960	4.61E-03	0.6567367	ZFP36L2	zinc finger protein 36, C3H type-like 2
A_24_P400457	4.61E-03	-0.1942084	CYB5RL	cytochrome b5 reductase-like
A_33_P3728979	4.61E-03	-0.2187227	FAM151B	family with sequence similarity 151, member B
A_23_P99996	4.61E-03	-0.3499301	MAGEL2	MAGE-like 2
A_24_P288323	4.61E-03	0.3833639	DPP9	dipeptidyl-peptidase 9
A_33_P3263518	4.60E-03	-0.9774471	C12orf63	chromosome 12 open reading frame 63
A_23_P120227	4.60E-03	0.7246241	LBH	limb bud and heart development homolog (mouse)
A_32_P179998	4.60E-03	-0.2176115	DMRTC1	DMRT-like family C1
A_33_P3258846	4.59E-03	0.5542566		
A_24_P151032	4.59E-03	0.2895947	MYL4	myosin, light chain 4, alkali; atrial, embryonic
A_33_P3269428	4.59E-03	0.3502427	C1QTNF6	C1q and tumor necrosis factor related protein 6
A_24_P506816	4.59E-03	0.2437957	OR2A20P	olfactory receptor, family 2, subfamily A, member 20 pseudogene
A_24_P122732	4.58E-03	-0.4698073	SLC41A1	solute carrier family 41, member 1
A_24_P317827	4.58E-03	-0.3433811	TMEM8B	transmembrane protein 8B
A_33_P3321372	4.57E-03	-0.7126607	CNTNAP3	contactin associated protein-like 3
A_23_P428999	4.57E-03	0.2752289	NCOA2	nuclear receptor coactivator 2
A_24_P242646	4.57E-03	0.6037726	CTSS	cathepsin S
A_23_P146354	4.57E-03	-0.4032629	POMT1	protein-O-mannosyltransferase 1
A_33_P3284345	4.57E-03	0.5672612	NRG1	neuregulin 1
A_33_P3373775	4.56E-03	0.5026233	BCL2L15	BCL2-like 15
A_33_P3284838	4.56E-03	-0.7115681		
A_33_P3247848	4.56E-03	-0.4319299	ZNF814	zinc finger protein 814
A_33_P3252834	4.56E-03	0.4257331	PHLDA3	pleckstrin homology-like domain, family A, member 3
A_23_P145	4.56E-03	-0.2256314	HMGCL	3-hydroxymethyl-3-methylglutaryl-CoA lyase
A_33_P3217213	4.56E-03	0.618312	PDLIM7	PDZ and LIM domain 7 (enigma)
A_33_P3299081	4.55E-03	-0.2504371	C1orf159	chromosome 1 open reading frame 159
A_24_P85158	4.54E-03	-0.2800262	SIRT3	sirtuin 3
A_23_P251836	4.54E-03	0.1892174	NPY5R	neuropeptide Y receptor Y5
A_33_P3511777	4.54E-03	0.4007231	LOC201477	uncharacterized LOC201477
A_24_P865	4.54E-03	-0.3639605	C6orf204	chromosome 6 open reading frame 204
A_24_P43092	4.53E-03	-0.3714951		2-Sep septin 2
A_33_P3383236	4.53E-03	-0.5022377	C2orf62	chromosome 2 open reading frame 62
A_33_P3321946	4.52E-03	-0.5417048	MOSPD3	motile sperm domain containing 3

A_24_P94319	4.52E-03	0.181198	C1orf177	chromosome 1 open reading frame 177
A_23_P69958	4.52E-03	-0.3118168	AP3S1	adaptor-related protein complex 3, sigma 1 subunit
A_33_P3360167	4.52E-03	0.2420454	OR5AU1	olfactory receptor, family 5, subfamily AU, member 1
A_33_P3276638	4.52E-03	0.3481974	HMBOX1	homeobox containing 1
A_23_P146830	4.52E-03	-0.5222021	SLC25A10	solute carrier family 25 (mitochondrial carrier; dicarboxylate transporter), member 10
A_23_P6223	4.52E-03	0.5428147	SCAF4	SR-related CTD-associated factor 4
A_33_P3338152	4.52E-03	0.8657255	HIF3A	hypoxia inducible factor 3, alpha subunit
A_23_P45786	4.51E-03	0.5716586	COL9A2	collagen, type IX, alpha 2
A_33_P3334305	4.50E-03	-0.6239633	TFF3	trefoil factor 3 (intestinal)
A_23_P25964	4.49E-03	-0.3889929	GALC	galactosylceramidase
A_23_P200216	4.49E-03	-0.5219673	MAGOH	mago-nashi homolog, proliferation-associated (Drosophila)
A_33_P3329577	4.49E-03	-0.2526834		
A_33_P3323481	4.49E-03	-0.2282224	PMF1-BGLAP	PMF1-BGLAP readthrough
A_24_P912439	4.49E-03	-0.5417376	AKNA	AT-hook transcription factor
A_24_P397150	4.48E-03	0.3443768	GAK	cyclin G associated kinase
A_33_P3234859	4.48E-03	-0.315852	UTRN	utrophin
A_23_P154986	4.47E-03	0.6471065	GGT1	gamma-glutamyltransferase 1
A_33_P3225096	4.47E-03	-0.3633258	MTMR10	myotubularin related protein 10
A_33_P3237552	4.47E-03	0.3337895	FIBCD1	fibrinogen C domain containing 1
A_24_P64039	4.46E-03	-0.3450293	AP3M2	adaptor-related protein complex 3, mu 2 subunit
A_23_P143987	4.46E-03	0.3230326	ATG7	ATG7 autophagy related 7 homolog (S. cerevisiae)
A_24_P367329	4.46E-03	-0.4131292	LOC440292	uncharacterized LOC440292
A_33_P3281816	4.46E-03	0.4140721	CAP1	CAP, adenylate cyclase-associated protein 1 (yeast)
A_33_P3242304	4.45E-03	0.2172509	TNP2	transition protein 2 (during histone to protamine replacement)
A_33_P3409467	4.45E-03	0.3189362	GCGR	glucagon receptor
A_23_P68884	4.45E-03	-0.3947209	DRG1	developmentally regulated GTP binding protein 1
A_23_P166633	4.45E-03	0.7070272	ITGB5	integrin, beta 5
A_23_P717	4.45E-03	0.4386763	TMEM206	transmembrane protein 206
A_23_P138655	4.45E-03	-1.1690618	CYP26A1	cytochrome P450, family 26, subfamily A, polypeptide 1
A_23_P101505	4.44E-03	0.4435934	KLK11	kallikrein-related peptidase 11
A_33_P3346083	4.44E-03	-0.3039097	DCDC1	doublecortin domain containing 1
A_23_P207537	4.43E-03	0.2943991	DUSP14	dual specificity phosphatase 14
A_23_P167818	4.42E-03	-0.7580659	FAM184A	family with sequence similarity 184, member A
A_33_P3422466	4.41E-03	-0.5489218	MORN3	MORN repeat containing 3
A_23_P73208	4.41E-03	0.4870429	GABPB2	GA binding protein transcription factor, beta subunit 2
A_33_P3284508	4.40E-03	-1.0920129	CD14	CD14 molecule
A_33_P3334398	4.40E-03	0.346481	CA6	carbonic anhydrase VI
A_33_P3413795	4.40E-03	0.5496177		
A_23_P82748	4.39E-03	-0.3806445	ENY2	enhancer of yellow 2 homolog (Drosophila)
A_33_P3401452	4.39E-03	-0.2926589	CHD6	chromodomain helicase DNA binding protein 6
A_23_P120335	4.39E-03	-0.2699622	MTX2	metaxin 2

A_23_P50815	4.39E-03	0.5692391	TTYH1	tweety homolog 1 (Drosophila)
A_33_P3379061	4.39E-03	0.4607934	C9orf47	chromosome 9 open reading frame 47
A_33_P3401317	4.38E-03	0.2794383	POTEM	POTE ankyrin domain family, member M
A_24_P388940	4.38E-03	-0.2476205	C6orf162	chromosome 6 open reading frame 162
A_23_P129486	4.38E-03	-0.3196139	SEPX1	selenoprotein X, 1
A_24_P191781	4.38E-03	-0.6132619	PARM1	prostate androgen-regulated mucin-like protein 1
A_23_P154962	4.38E-03	-0.4396871	RIMBP3	RIMS binding protein 3
A_23_P127663	4.38E-03	0.3445051	PRRG4	proline rich Gla (G-carboxyglutamic acid) 4 (transmembrane)
A_23_P71537	4.37E-03	-0.7618174	CSPP1	centrosome and spindle pole associated protein 1
A_33_P3799692	4.37E-03	-0.4993329	LOC338620	uncharacterized LOC338620
A_33_P3220570	4.37E-03	-0.6235565	UBTD1	ubiquitin domain containing 1
A_24_P163920	4.37E-03	0.4552084	FAR1	fatty acyl CoA reductase 1
A_23_P215227	4.37E-03	0.3106741	DNAJB6	DnaJ (Hsp40) homolog, subfamily B, member 6
A_32_P206698	4.37E-03	-0.4681416	CKS1B	CDC28 protein kinase regulatory subunit 1B
A_33_P3335257	4.37E-03	0.4556261	TMEM146	transmembrane protein 146
A_33_P3389649	4.37E-03	-0.5260505	PDE4D	phosphodiesterase 4D, cAMP-specific
A_33_P3264238	4.36E-03	-0.2163614	ZNF280B	zinc finger protein 280B
A_23_P254816	4.36E-03	0.8833458	TCF15	transcription factor 15 (basic helix-loop-helix)
A_23_P502832	4.36E-03	-0.2364708	RBM12	RNA binding motif protein 12
A_24_P331779	4.35E-03	-1.1337953	RSPH4A	radial spoke head 4 homolog A (Chlamydomonas)
A_23_P141770	4.35E-03	0.4025411	NAPG	N-ethylmaleimide-sensitive factor attachment protein, gamma
A_33_P3257479	4.35E-03	0.4653194		
A_23_P64919	4.34E-03	0.2064219	RERGL	RERG/RAS-like
A_33_P3391865	4.34E-03	0.4580354	INF2	inverted formin, FH2 and WH2 domain containing
A_33_P3295173	4.34E-03	-0.293829	HSPB11	heat shock protein family B (small), member 11
A_33_P3317761	4.34E-03	0.4830785		
A_24_P374427	4.34E-03	0.4310081	ZDHHC21	zinc finger, DHHC-type containing 21
A_24_P340954	4.33E-03	-0.77761	ANKUB1	ankyrin repeat and ubiquitin domain containing 1
A_23_P99405	4.33E-03	-0.3049499	ZMYM2	zinc finger, MYM-type 2
A_33_P3242458	4.33E-03	-0.2627574	SLC41A3	solute carrier family 41, member 3
A_33_P3299025	4.32E-03	-0.3204403	LOC389834	ankyrin repeat domain 57 pseudogene
A_23_P52298	4.32E-03	-0.4356802	NPM3	nucleophosmin/nucleoplasmin 3
A_33_P3546070	4.31E-03	-0.2618414	PHF20L1	PHD finger protein 20-like 1
A_33_P3306352	4.30E-03	0.2332154	C20orf108	chromosome 20 open reading frame 108
A_33_P3319261	4.30E-03	-0.2971382	EXD3	exonuclease 3'-5' domain containing 3
A_33_P3825317	4.30E-03	-0.4497191	LOC646851	putative uncharacterized protein LOC388900
A_33_P3261182	4.30E-03	-0.4545623	POC5	POC5 centriolar protein homolog (Chlamydomonas)
A_24_P338145	4.29E-03	-0.4283977	STOML2	stomatin (EPB72)-like 2
A_33_P3876985	4.29E-03	-0.2224133	PPPDE1	PPPDE peptidase domain containing 1
A_23_P131683	4.29E-03	-0.3837661	MAPRE3	microtubule-associated protein, RP/EB family, member 3
A_24_P140827	4.29E-03	-0.3541347	PCMT1	protein-L-isoaspartate (D-aspartate) O-methyltransferase

A_24_P411749	4.29E-03	-0.3996389	GPR126	G protein-coupled receptor 126
A_33_P3404671	4.28E-03	-0.4078256	LOC100130557	uncharacterized LOC100130557
A_33_P3215948	4.28E-03	-0.3226361	MPZL2	myelin protein zero-like 2
A_23_P79155	4.28E-03	0.3506803	GPR39	G protein-coupled receptor 39
A_23_P346969	4.28E-03	0.3648096	PIK3CB	phosphoinositide-3-kinase, catalytic, beta polypeptide
A_23_P106922	4.27E-03	-0.4282207	CHST6	carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 6
A_33_P3371910	4.27E-03	0.2421996	HNRPLL	heterogeneous nuclear ribonucleoprotein L-like
A_33_P3403459	4.26E-03	-0.4506683	C14orf167	chromosome 14 open reading frame 167
A_23_P214977	4.26E-03	-0.2950215	SEC63	SEC63 homolog (S. cerevisiae)
A_23_P130352	4.26E-03	0.5639199	KCTD1	potassium channel tetramerisation domain containing 1
A_23_P149496	4.26E-03	0.3517675	XKR8	XK, Kell blood group complex subunit-related family, member 8
A_23_P156562	4.26E-03	-0.1708407	CRIP3	cysteine-rich protein 3
A_23_P169838	4.25E-03	-0.3780125	SUN1	Sad1 and UNC84 domain containing 1
A_23_P15582	4.25E-03	-0.5000129	XYLT2	xylosyltransferase II
A_33_P3371727	4.25E-03	0.4470621	SAT1	spermidine/spermine N1-acetyltransferase 1
A_23_P41365	4.25E-03	0.4642379	SMR3A	submaxillary gland androgen regulated protein 3A
A_33_P3256532	4.25E-03	0.4754373	C7orf64	chromosome 7 open reading frame 64
A_32_P21579	4.24E-03	-0.3346541	TRDMT1	tRNA aspartic acid methyltransferase 1
A_23_P63032	4.24E-03	0.2074266	GUCA2B	guanylate cyclase activator 2B (uroguanylin)
A_23_P78526	4.24E-03	0.7892641	CEACAM19	carcinoembryonic antigen-related cell adhesion molecule 19
A_23_P134827	4.24E-03	0.1946329	ASH2L	ash2 (absent, small, or homeotic)-like (Drosophila)
A_24_P934800	4.24E-03	-0.3224468	ERI2	ERI1 exoribonuclease family member 2
A_33_P3386364	4.24E-03	-0.2111289	FANCF	Fanconi anemia, complementation group F
A_23_P149852	4.24E-03	0.3761095	LZTS2	leucine zipper, putative tumor suppressor 2
A_24_P221960	4.24E-03	0.2673748		
A_33_P3888629	4.23E-03	-0.3760674	MECOM	MDS1 and EVI1 complex locus
A_23_P64669	4.22E-03	0.2232325	ZCCHC8	zinc finger, CCHC domain containing 8
A_33_P3340961	4.22E-03	-0.3345285	SH3GL3	SH3-domain GRB2-like 3
A_33_P3220192	4.22E-03	-0.6210346	LINC00240	long intergenic non-protein coding RNA 240
A_24_P227585	4.22E-03	-0.3142388	KIAA1704	KIAA1704
A_33_P3403418	4.22E-03	0.2666467	CTNNA1	catenin (cadherin-associated protein), alpha 1, 102kDa
A_33_P3469658	4.22E-03	0.3458156	LOC284570	uncharacterized LOC284570
A_24_P159036	4.22E-03	-0.2321454	RPL36AL	ribosomal protein L36a-like
A_33_P3367830	4.22E-03	-0.4341949	EFEMP2	EGF containing fibulin-like extracellular matrix protein 2
A_23_P387000	4.22E-03	-0.2853476	XKR6	XK, Kell blood group complex subunit-related family, member 6
A_32_P90210	4.21E-03	-0.349754	TAF9	TAF9 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 32kDa
A_32_P161033	4.21E-03	-0.2266323		
A_23_P87827	4.21E-03	-0.5234897	UNC119B	unc-119 homolog B (C. elegans)
A_33_P3294533	4.20E-03	-0.1883197	PRKCB	protein kinase C, beta
A_23_P74068	4.20E-03	0.1606574	MSH4	mutS homolog 4 (E. coli)
A_23_P74001	4.20E-03	0.6006993	S100A12	S100 calcium binding protein A12

A_23_P373649	4.20E-03	-0.3637675	TIMM23	translocase of inner mitochondrial membrane 23 homolog (yeast)
A_33_P3615922	4.20E-03	-0.785942	C7orf63	chromosome 7 open reading frame 63
A_33_P3251430	4.20E-03	0.3793829	NRIP1	nuclear receptor interacting protein 1
A_23_P83403	4.19E-03	-0.3711283	LIMCH1	LIM and calponin homology domains 1
A_33_P3289286	4.19E-03	-0.326717	TMEM57	transmembrane protein 57
A_24_P16730	4.19E-03	-0.3081202	KIAA1715	KIAA1715
A_23_P374689	4.18E-03	-0.3521656	GAD1	glutamate decarboxylase 1 (brain, 67kDa)
A_23_P43276	4.18E-03	0.3354292	GPR124	G protein-coupled receptor 124
A_33_P3365596	4.17E-03	-0.4321093	NAPB	N-ethylmaleimide-sensitive factor attachment protein, beta
A_24_P179504	4.17E-03	-0.7182868	WDR66	WD repeat domain 66
A_23_P162279	4.17E-03	-0.3005982	CCDC91	coiled-coil domain containing 91
A_23_P63038	4.17E-03	-0.552335	LEPRE1	leucine proline-enriched proteoglycan (leprecan) 1
A_33_P3226080	4.16E-03	0.2080339	C17orf87	chromosome 17 open reading frame 87
A_32_P86763	4.16E-03	0.7815988	TGM2	transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase)
A_23_P301372	4.15E-03	-0.2894833	TAPT1	transmembrane anterior posterior transformation 1
A_33_P3289045	4.15E-03	-0.3037148	GSTT2B	glutathione S-transferase theta 2B (gene/pseudogene)
A_33_P3343206	4.15E-03	0.4187035	LOC100288292	putative uncharacterized protein FLJ44672-like
A_33_P3263989	4.14E-03	0.2462953		
A_24_P157087	4.14E-03	1.3485461	CASP8	caspase 8, apoptosis-related cysteine peptidase
A_24_P314451	4.14E-03	-0.3425737	F8	coagulation factor VIII, procoagulant component
A_33_P3272352	4.14E-03	0.7735515		
A_33_P3232523	4.14E-03	0.3379936	APOL4	apolipoprotein L, 4
A_32_P234827	4.14E-03	-0.3980305	ARMC1	armadillo repeat containing 1
A_33_P3338116	4.13E-03	-0.6630828	LAMB2	laminin, beta 2 (laminin S)
A_24_P186608	4.13E-03	-0.6078468	DPY19L2P2	dpy-19-like 2 pseudogene 2 (C. elegans)
A_23_P154500	4.13E-03	0.259354	DNMT3A	DNA (cytosine-5-)-methyltransferase 3 alpha
A_23_P212400	4.13E-03	-0.2962949	NAT6	N-acetyltransferase 6 (GCN5-related)
A_23_P429491	4.12E-03	0.4840562	C11orf82	chromosome 11 open reading frame 82
A_23_P162879	4.11E-03	-0.3200805	APOPT1	apoptogenic 1
A_24_P359067	4.11E-03	0.4097967	LOC100130357	uncharacterized LOC100130357
A_24_P41975	4.11E-03	-0.2786501	TDRKH	tudor and KH domain containing
A_24_P336853	4.11E-03	0.5313089	PNO1	partner of NOB1 homolog (S. cerevisiae)
A_23_P30024	4.11E-03	0.6813435	NFKB1	nuclear factor of kappa light polypeptide gene enhancer in B-cells 1
A_33_P3238290	4.11E-03	-0.5189736	FAM65C	family with sequence similarity 65, member C
A_33_P3422479	4.10E-03	-0.2876193	CRELD1	cysteine-rich with EGF-like domains 1
A_24_P120934	4.10E-03	-0.3503678	GADD45G	growth arrest and DNA-damage-inducible, gamma
A_23_P112260	4.10E-03	-0.4041702	GNG10	guanine nucleotide binding protein (G protein), gamma 10
A_23_P73150	4.10E-03	-1.3590075	TTC25	tetratricopeptide repeat domain 25
A_33_P3340990	4.10E-03	-0.3312252	AKTIP	AKT interacting protein
A_33_P3321577	4.08E-03	0.3846762	BAZ1B	bromodomain adjacent to zinc finger domain, 1B
A_23_P63870	4.08E-03	0.546459	SAMD8	sterile alpha motif domain containing 8

A_32_P59302	4.08E-03	0.8016723	HIVEP3	human immunodeficiency virus type I enhancer binding protein 3
A_23_P209933	4.08E-03	0.2201874	TGOLN2	trans-golgi network protein 2
A_33_P3398719	4.08E-03	0.4539844		
A_33_P3356341	4.08E-03	0.367545	MSL1	male-specific lethal 1 homolog (Drosophila)
A_24_P382489	4.08E-03	-0.6438718	SLC27A1	solute carrier family 27 (fatty acid transporter), member 1
A_32_P141682	4.08E-03	-0.9359831	EVPLL	envoplakin-like
A_23_P21316	4.07E-03	-0.3332299	PRUNE	prune homolog (Drosophila)
A_33_P3225086	4.07E-03	0.183052	PEX16	peroxisomal biogenesis factor 16
A_33_P3369039	4.06E-03	-0.4398312	PRPF31	PRP31 pre-mRNA processing factor 31 homolog (S. cerevisiae)
A_23_P393713	4.06E-03	0.2205238	IGHMBP2	immunoglobulin mu binding protein 2
A_24_P35169	4.06E-03	-0.2771661	GATAD1	GATA zinc finger domain containing 1
A_33_P3311165	4.06E-03	-0.3134455	FLJ44313	FLJ44313 protein
A_24_P216313	4.06E-03	-0.4083796	ERGIC3	ERGIC and golgi 3
A_33_P3355407	4.06E-03	-0.3943818	RNU105A	RNA, U105A small nucleolar
A_33_P3303469	4.06E-03	0.9724912		
A_23_P117424	4.06E-03	-0.2498448	DCAF11	DDB1 and CUL4 associated factor 11
A_24_P206604	4.05E-03	-0.2814597	PFKFB3	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3
A_33_P3216192	4.05E-03	-0.5982358		
A_23_P216038	4.05E-03	-0.5509171	PHF20L1	PHD finger protein 20-like 1
A_23_P413788	4.04E-03	-0.2285219	FUT11	fucosyltransferase 11 (alpha (1,3) fucosyltransferase)
A_23_P30050	4.04E-03	-0.5269519	SLC30A9	solute carrier family 30 (zinc transporter), member 9
A_33_P3242798	4.03E-03	-0.6260276	CPS1	carbamoyl-phosphate synthase 1, mitochondrial
A_24_P200694	4.03E-03	0.4137096	RING1	ring finger protein 1
A_23_P145841	4.03E-03	-0.2955618	SOSTDC1	sclerostin domain containing 1
A_32_P174365	4.03E-03	-0.3798819	SATB2	SATB homeobox 2
A_24_P409881	4.03E-03	-0.3108893		
A_23_P312837	4.03E-03	-0.276193	GLIS3-AS1	GLIS3 antisense RNA 1 (non-protein coding)
A_23_P116890	4.02E-03	0.3648849	PRB3	proline-rich protein BstNI subfamily 3
A_23_P157715	4.02E-03	-0.5877196	PPP1R16A	protein phosphatase 1, regulatory subunit 16A
A_23_P75299	4.02E-03	-0.5512968	LHPP	phospholysine phosphohistidine inorganic pyrophosphate phosphatase
A_24_P941353	4.02E-03	-0.3507979	PCYT1B	phosphate cytidylyltransferase 1, choline, beta
A_33_P3393091	4.02E-03	0.3797922		
A_24_P412734	4.01E-03	0.5725734	PRSS36	protease, serine, 36
A_33_P3233030	4.01E-03	-0.4677785		
A_33_P3411315	4.01E-03	0.6281026	KRTAP3-3	keratin associated protein 3-3
A_32_P334325	4.01E-03	0.2895521	RIMBP2	RIMS binding protein 2
A_33_P3329444	4.01E-03	0.3349238	MAMSTR	MEF2 activating motif and SAP domain containing transcriptional regulator
A_33_P3359373	4.00E-03	-0.2091204	TSC1	tuberous sclerosis 1
A_33_P3289835	4.00E-03	-0.3772538	OSBPL9	oxysterol binding protein-like 9
A_23_P88740	4.00E-03	-0.4490706	CENPN	centromere protein N
A_33_P3286302	4.00E-03	0.6048219	TNFRSF14	tumor necrosis factor receptor superfamily, member 14

A_33_P3284473	4.00E-03	-0.2552914		
A_23_P111981	4.00E-03	-0.4859239	LYNX1	Ly6/neurotoxin 1
A_23_P316741	3.99E-03	-0.3784267	TSPAN4	tetraspanin 4
A_33_P3379763	3.99E-03	-0.3979332	LOC100289186	succinate dehydrogenase complex, subunit D, integral membrane protein pseudogene
A_33_P3351559	3.99E-03	-0.3658382	ETNK1	ethanolamine kinase 1
A_33_P3286988	3.99E-03	0.4351812		
A_33_P3368109	3.99E-03	0.3422795		
A_33_P3358740	3.98E-03	-0.3435848	OSBPL7	oxysterol binding protein-like 7
A_23_P103398	3.98E-03	0.236214	PSEN2	presenilin 2 (Alzheimer disease 4)
A_33_P3344574	3.98E-03	0.6661798	SFTPA2	surfactant protein A2
A_23_P322395	3.98E-03	0.6310298	ZSCAN1	zinc finger and SCAN domain containing 1
A_23_P319895	3.98E-03	0.442354	SETD1B	SET domain containing 1B
A_23_P94754	3.98E-03	0.5784208	TNFSF15	tumor necrosis factor (ligand) superfamily, member 15
A_33_P3299781	3.98E-03	-0.3735207	DDRKG1	DDRKG domain containing 1
A_23_P33914	3.97E-03	-0.6480209	NUP62CL	nucleoporin 62kDa C-terminal like
A_23_P259393	3.97E-03	0.300512	SFMBT1	Scm-like with four mbt domains 1
A_33_P3315949	3.97E-03	-0.8046883	CCDC103	coiled-coil domain containing 103
A_23_P70547	3.97E-03	0.6965392	HSPA1L	heat shock 70kDa protein 1-like
A_24_P146211	3.97E-03	0.4042714	HIST1H2BD	histone cluster 1, H2bd
A_23_P422732	3.97E-03	-1.2458586	WDR63	WD repeat domain 63
A_33_P3384392	3.97E-03	0.4324109	ADRBK1	adrenergic, beta, receptor kinase 1
A_33_P3392391	3.96E-03	-0.2179035	CPT1C	carnitine palmitoyltransferase 1C
A_24_P112941	3.96E-03	0.6203114	LINGO1	leucine rich repeat and Ig domain containing 1
A_24_P282751	3.96E-03	-0.265821	SUPT7L	suppressor of Ty 7 (<i>S. cerevisiae</i>)-like
A_33_P3245927	3.96E-03	-0.3965094	OGFOD2	2-oxoglutarate and iron-dependent oxygenase domain containing 2
A_32_P18250	3.96E-03	-0.3611296	FUNDC2P2	FUN14 domain containing 2 pseudogene 2
A_23_P113803	3.96E-03	-0.2758354	KATNA1	katanin p60 (ATPase containing) subunit A 1
A_33_P3367970	3.95E-03	0.4271382		
A_23_P145965	3.95E-03	0.3806159	TPST1	tyrosylprotein sulfotransferase 1
A_33_P3231888	3.95E-03	-0.3315395	C5orf15	chromosome 5 open reading frame 15
A_32_P163169	3.94E-03	-0.2939746	VDAC1	voltage-dependent anion channel 1
A_24_P64407	3.94E-03	0.3812683	HMX2	H6 family homeobox 2
A_24_P32139	3.93E-03	0.384499	HTR3E	5-hydroxytryptamine (serotonin) receptor 3, family member E
A_23_P309837	3.93E-03	-0.3101218	STON2	stonin 2
A_33_P3222788	3.93E-03	0.368103	LOC100188947	uncharacterized LOC100188947
A_33_P3325665	3.93E-03	0.485847	JPH4	junctophilin 4
A_33_P3420701	3.92E-03	-0.2319661		
A_33_P3702055	3.92E-03	0.3978988	SLC11A1	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1
A_23_P11862	3.92E-03	-0.4333735	C1orf112	chromosome 1 open reading frame 112
A_23_P80473	3.91E-03	-0.6335456	CHST13	carbohydrate (chondroitin 4) sulfotransferase 13
A_33_P3210671	3.91E-03	0.5492524	GPAT2	glycerol-3-phosphate acyltransferase 2, mitochondrial

A_23_P130642	3.91E-03	0.6741188	GBP6	guanylate binding protein family, member 6
A_23_P436369	3.91E-03	-0.8572207	FILIP1	filamin A interacting protein 1
A_32_P145153	3.91E-03	-0.262919	RPL31	ribosomal protein L31
A_23_P114774	3.91E-03	-0.4106982	PMVK	phosphomevalonate kinase
A_24_P270525	3.91E-03	-0.3929037	GTF2A2	general transcription factor IIA, 2, 12kDa
A_23_P157449	3.91E-03	-0.4661787	POLR2K	polymerase (RNA) II (DNA directed) polypeptide K, 7.0kDa
A_23_P15678	3.91E-03	-1.2747712	TEKT1	tektin 1
A_24_P322709	3.91E-03	-0.3109804	SNTA1	syntrophin, alpha 1 (dystrophin-associated protein A1, 59kDa, acidic component)
A_23_P38959	3.90E-03	0.5836878	VAV1	vav 1 guanine nucleotide exchange factor
A_23_P202750	3.90E-03	-0.4016281	C11orf54	chromosome 11 open reading frame 54
A_33_P3291772	3.89E-03	0.642707		
A_23_P357794	3.89E-03	-0.4437431	MTBP	Mdm2, transformed 3T3 cell double minute 2, p53 binding protein (mouse) binding protein, 104kDa
A_23_P342067	3.89E-03	0.2906323	UHMK1	U2AF homology motif (UHM) kinase 1
A_33_P3309471	3.88E-03	-0.7326789	PTPRQ	protein tyrosine phosphatase, receptor type, Q
A_33_P3301514	3.88E-03	0.3898124	NRCAM	neuronal cell adhesion molecule
A_33_P3775007	3.88E-03	0.5361765	ASAP1	ArfGAP with SH3 domain, ankyrin repeat and PH domain 1
A_23_P163099	3.88E-03	-0.3835933	POLE2	polymerase (DNA directed), epsilon 2 (p59 subunit)
A_23_P146908	3.88E-03	-0.3866081	STX8	syntaxin 8
A_33_P3410859	3.88E-03	0.8848224	LOC729603	calcium binding protein P22 pseudogene
A_23_P253602	3.88E-03	-0.2239789	BMX	BMX non-receptor tyrosine kinase
A_24_P926760	3.88E-03	-0.3035512	NKTR	natural killer-tumor recognition sequence
A_33_P3340682	3.88E-03	0.2759182	ZNF276	zinc finger protein 276
A_23_P45361	3.87E-03	0.2972316	GLUD2	glutamate dehydrogenase 2
A_23_P933	3.87E-03	-0.3792748	RWDD3	RWD domain containing 3
A_33_P3413667	3.87E-03	0.2004106	ABL2	v-abl Abelson murine leukemia viral oncogene homolog 2
A_24_P296568	3.86E-03	-0.2196927	CBX1	chromobox homolog 1
A_23_P117068	3.86E-03	-0.2971474	SNRPF	small nuclear ribonucleoprotein polypeptide F
A_23_P154025	3.84E-03	-0.3843395	SSB	Sjogren syndrome antigen B (autoantigen La)
A_33_P3322589	3.84E-03	-0.3741475	FANCL	Fanconi anemia, complementation group L
A_33_P3383912	3.84E-03	-0.458608	HLA-DRB3	major histocompatibility complex, class II, DR beta 3
A_23_P34827	3.84E-03	-0.2527079	HCN3	hyperpolarization activated cyclic nucleotide-gated potassium channel 3
A_23_P33809	3.84E-03	-0.4089029	IMP3	IMP3, U3 small nucleolar ribonucleoprotein, homolog (yeast)
A_23_P303317	3.83E-03	0.2573801	ZXDC	ZXD family zinc finger C
A_23_P353005	3.82E-03	0.2630353	RNF217	ring finger protein 217
A_24_P314351	3.82E-03	0.2599544	ZBTB33	zinc finger and BTB domain containing 33
A_33_P3230663	3.82E-03	-0.3451593	LOC100130232	LP2209
A_23_P138271	3.82E-03	0.3725656	ARL8A	ADP-ribosylation factor-like 8A
A_23_P71368	3.82E-03	-0.4327544	RP1	retinitis pigmentosa 1 (autosomal dominant)
A_24_P937790	3.80E-03	0.4968712	CCDC166	coiled-coil domain containing 166
A_23_P408830	3.80E-03	0.5713769	CAMKK2	calcium/calmodulin-dependent protein kinase kinase 2, beta
A_33_P3342260	3.80E-03	0.7181462	GCK	glucokinase (hexokinase 4)

A_33_P3403117	3.79E-03	-0.7562043	NR2F1	nuclear receptor subfamily 2, group F, member 1
A_23_P112478	3.79E-03	-0.389392	NUDT2	nudix (nucleoside diphosphate linked moiety X)-type motif 2
A_23_P17275	3.79E-03	0.4147806	DNAJC27	DnaJ (Hsp40) homolog, subfamily C, member 27
A_23_P5742	3.79E-03	-0.6871831	CCDC121	coiled-coil domain containing 121
A_33_P3270489	3.79E-03	-1.2309994	C6orf97	chromosome 6 open reading frame 97
A_23_P259098	3.79E-03	-0.4013145	ZSCAN16	zinc finger and SCAN domain containing 16
A_24_P48587	3.79E-03	-0.5175378	PSENE1	presenilin enhancer 2 homolog (C. elegans)
A_23_P378416	3.79E-03	-0.419219	GPM6B	glycoprotein M6B
A_23_P54144	3.78E-03	-0.4931794	BMP4	bone morphogenetic protein 4
A_24_P160413	3.77E-03	-0.515604	MTMR9LP	myotubularin related protein 9-like, pseudogene
A_33_P3365047	3.77E-03	-0.5211895	RBBP9	retinoblastoma binding protein 9
A_33_P3410296	3.77E-03	0.3599606	DPYSL4	dihydropyrimidinase-like 4
A_33_P3361337	3.77E-03	0.3409034	TMEM184A	transmembrane protein 184A
A_23_P346291	3.77E-03	0.5147881	GPR173	G protein-coupled receptor 173
A_32_P186138	3.77E-03	-0.2561749	LOC100130890	uncharacterized LOC100130890
A_33_P3341269	3.77E-03	0.4084647		
A_23_P146444	3.77E-03	0.5415937	CORO2A	coronin, actin binding protein, 2A
A_32_P67526	3.76E-03	-0.9010815	PCDP1	primary ciliary dyskinesia protein 1
A_23_P17204	3.76E-03	-0.2731	ANAPC1	anaphase promoting complex subunit 1
A_33_P3321507	3.75E-03	0.5643758	TNRC18	trinucleotide repeat containing 18
A_33_P3335077	3.75E-03	-0.3774037		
A_32_P928190	3.75E-03	0.3000179		
A_23_P100141	3.75E-03	-0.3185569	UNKL	unkempt homolog (Drosophila)-like
A_33_P3587611	3.75E-03	-0.1993953	RPL36AP33	ribosomal protein L36a pseudogene 33
A_23_P110288	3.75E-03	-0.223956	GSTCD	glutathione S-transferase, C-terminal domain containing
A_23_P26895	3.75E-03	0.3774485	TUBD1	tubulin, delta 1
A_23_P38482	3.75E-03	0.2557474	PHF23	PHD finger protein 23
A_23_P39110	3.74E-03	-0.4534545	RUVBL2	RuvB-like 2 (E. coli)
A_32_P102062	3.74E-03	0.2590382	FOXO3	forkhead box O3
A_23_P395464	3.74E-03	-0.2285733	ZNF582	zinc finger protein 582
A_33_P3370812	3.74E-03	0.7036127	TBC1D1	TBC1 (tre-2/USP6, BUB2, cdc16) domain family, member 1
A_33_P3309919	3.74E-03	-0.4374571	RWDD1	RWD domain containing 1
A_23_P161634	3.74E-03	0.3539589	MUS81	MUS81 endonuclease homolog (S. cerevisiae)
A_33_P3405022	3.74E-03	0.3947144	LETM1	leucine zipper-EF-hand containing transmembrane protein 1
A_23_P156620	3.74E-03	-0.342025	ZNF184	zinc finger protein 184
A_33_P3404257	3.74E-03	-0.3549703		
A_33_P3419481	3.74E-03	0.5109974		
A_23_P79043	3.74E-03	-0.3525793	TMEM147	transmembrane protein 147
A_23_P200838	3.74E-03	0.7807204	KMO	kynurenine 3-monooxygenase (kynurenine 3-hydroxylase)
A_24_P271014	3.74E-03	0.4021783	PPP4R1	protein phosphatase 4, regulatory subunit 1
A_23_P109488	3.73E-03	-0.453538	PIK3IP1	phosphoinositide-3-kinase interacting protein 1

A_33_P3353030	3.73E-03	0.5226495	UCN	urocortin
A_33_P3391915	3.73E-03	0.4562266	BTBD17	BTB (POZ) domain containing 17
A_33_P3218694	3.73E-03	-0.2365639	PNN	pinin, desmosome associated protein
A_24_P832156	3.73E-03	0.269637	FAM120AOS	family with sequence similarity 120A opposite strand
A_33_P3415820	3.73E-03	0.3003416	THBS1	thrombospondin 1
A_23_P305977	3.72E-03	-0.2775349	GRAMD2	GRAM domain containing 2
A_23_P102517	3.72E-03	-0.2754606	PDE6D	phosphodiesterase 6D, cGMP-specific, rod, delta
A_23_P57347	3.72E-03	-0.4418064	PCNT	pericentrin
A_33_P3335571	3.72E-03	-0.4170273	LOC100133315	transient receptor potential cation channel, subfamily C, member 2-like
A_33_P3327818	3.72E-03	0.6664916		
A_33_P3324765	3.72E-03	0.6059947	CSNK1D	casein kinase 1, delta
A_23_P98015	3.71E-03	-0.3861841	CUTC	cutC copper transporter homolog (E. coli)
A_23_P16143	3.71E-03	0.7134447	GTF2F1	general transcription factor IIF, polypeptide 1, 74kDa
A_23_P127446	3.70E-03	0.4996264	DPF2	D4, zinc and double PHD fingers family 2
A_23_P200670	3.70E-03	-1.0750566	WDR78	WD repeat domain 78
A_23_P362824	3.70E-03	-0.2996827	CSTF1	cleavage stimulation factor, 3' pre-RNA, subunit 1, 50kDa
A_23_P110606	3.70E-03	0.515317	MAML1	mastermind-like 1 (Drosophila)
A_33_P3331652	3.70E-03	0.8815064		
A_33_P3314471	3.69E-03	-0.2924513	IMMT	inner membrane protein, mitochondrial
A_33_P3312549	3.69E-03	0.3524546		
A_33_P3361388	3.69E-03	-0.6508597	MYCBPAP	MYCBP associated protein
A_32_P167239	3.68E-03	0.3414425	AFAP1L1	actin filament associated protein 1-like 1
A_23_P212675	3.68E-03	-0.9776009	NME9	NME gene family member 9
A_23_P423108	3.68E-03	-0.2521604	TDRD10	tudor domain containing 10
A_33_P3264657	3.68E-03	0.4277978	CYP27C1	cytochrome P450, family 27, subfamily C, polypeptide 1
A_32_P108889	3.68E-03	-0.6136601	DCLK1	doublecortin-like kinase 1
A_33_P3300172	3.68E-03	0.3336764	SPON2	spondin 2, extracellular matrix protein
A_23_P259580	3.68E-03	0.3262235	TAPBP	TAP binding protein (tapasin)
A_23_P341532	3.67E-03	0.2728293	SETDB2	SET domain, bifurcated 2
A_33_P3270084	3.67E-03	-0.3840016		
A_23_P352266	3.66E-03	0.4030592	BCL2	B-cell CLL/lymphoma 2
A_23_P39517	3.66E-03	-0.3148779	SRBD1	S1 RNA binding domain 1
A_23_P1072	3.66E-03	-0.5971654	ATP1A1	ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide
A_24_P134850	3.65E-03	0.2502939	PLEKHH1	pleckstrin homology domain containing, family H (with MyTH4 domain) member 1
A_23_P29994	3.65E-03	-0.5535993	RBPJ	recombination signal binding protein for immunoglobulin kappa J region
A_23_P501372	3.65E-03	0.2576043	SMCR7	Smith-Magenis syndrome chromosome region, candidate 7
A_23_P92650	3.64E-03	0.2423308	SLC25A2	solute carrier family 25 (mitochondrial carrier; ornithine transporter) member 2
A_33_P3291244	3.64E-03	-1.0948368	CCDC60	coiled-coil domain containing 60
A_33_P3407564	3.63E-03	0.3383046		
A_32_P149536	3.63E-03	-0.2876296	SUMO2	SMT3 suppressor of mif two 3 homolog 2 (S. cerevisiae)
A_33_P3418668	3.63E-03	-0.7718238	PAR-SN	paternally expressed transcript PAR-SN

A_33_P3328375	3.63E-03	-1.1044965	TTC29	tetratricopeptide repeat domain 29
A_23_P210939	3.62E-03	0.2870234	EIF6	eukaryotic translation initiation factor 6
A_23_P203972	3.62E-03	-0.7193262	FZD10	frizzled family receptor 10
A_23_P203586	3.62E-03	0.2737096	NUP98	nucleoporin 98kDa
A_33_P3342430	3.62E-03	0.2873964		
A_33_P3319937	3.62E-03	0.3187744		
A_24_P216681	3.62E-03	-0.4307099	LSM10	LSM10, U7 small nuclear RNA associated
A_24_P173124	3.62E-03	0.3131491	FLCN	folliculin
A_23_P77859	3.62E-03	0.3027895	TMEM88	transmembrane protein 88
A_33_P3390349	3.62E-03	0.5039386	VAV2	vav 2 guanine nucleotide exchange factor
A_33_P3215347	3.61E-03	0.3228423		
A_23_P126291	3.61E-03	-0.4422383	SNRPE	small nuclear ribonucleoprotein polypeptide E
A_23_P38206	3.61E-03	-0.3192622	LSMD1	LSM domain containing 1
A_33_P3263512	3.61E-03	0.8006966		
A_23_P61031	3.61E-03	-1.2087654	ZBBX	zinc finger, B-box domain containing
A_23_P363769	3.61E-03	0.4558588	KRT86	keratin 86
A_23_P399255	3.61E-03	-0.1963506	RNF182	ring finger protein 182
A_33_P3407289	3.61E-03	-0.1901899	LOC283788	FSHD region gene 1 pseudogene
A_23_P348911	3.61E-03	0.712003	LOC100129726	uncharacterized LOC100129726
A_23_P35883	3.61E-03	-0.2872567	FOXRED1	FAD-dependent oxidoreductase domain containing 1
A_23_P36724	3.61E-03	0.2400228	FBXL14	F-box and leucine-rich repeat protein 14
A_33_P3281041	3.60E-03	0.6818313		
A_23_P25989	3.60E-03	-0.3263827	SETD3	SET domain containing 3
A_24_P357518	3.60E-03	-0.4962001	RPL21	ribosomal protein L21
A_23_P112429	3.59E-03	-0.2480391	RPL35	ribosomal protein L35
A_33_P3296997	3.59E-03	0.3457947	RUFY4	RUN and FYVE domain containing 4
A_33_P3287690	3.59E-03	-0.3594634	CNOT2	CCR4-NOT transcription complex, subunit 2
A_33_P3294297	3.59E-03	0.5429244	RNF126	ring finger protein 126
A_23_P50646	3.59E-03	-0.4339881	LOC390940	uncharacterized protein ENSP00000244321
A_23_P32036	3.59E-03	-0.2355549	C9orf95	chromosome 9 open reading frame 95
A_23_P35219	3.59E-03	-1.0906469	NEK2	NIMA (never in mitosis gene a)-related kinase 2
A_33_P3235132	3.58E-03	0.6507594	LOC400968	uncharacterized LOC400968
A_23_P370625	3.58E-03	0.6155207	SEPN1	selenoprotein N, 1
A_33_P3335682	3.57E-03	0.7941417	PPP1R14A	protein phosphatase 1, regulatory (inhibitor) subunit 14A
A_33_P3209433	3.57E-03	0.4653749	RELA	v-rel reticuloendotheliosis viral oncogene homolog A (avian)
A_33_P3221284	3.57E-03	-0.5644333	CCDC80	coiled-coil domain containing 80
A_24_P47681	3.57E-03	0.8754521	CAND1	cullin-associated and neddylation-dissociated 1
A_24_P901986	3.56E-03	0.4216108		

Supplemental Table 2: Dataset GSE86528 from primary human fibroblasts

ID	adj.P.Val	logFC	GENE_SYMBOL	GENE_NAME
A_24_P256243	1.13E-13	9.55730064	SSX2	synovial sarcoma, X breakpoint 2
A_33_P3322730	4.29E-11	6.67640405		
A_23_P114903	5.03E-11	3.32766357	HSPA6	heat shock 70kDa protein 6 (HSP70B')
A_33_P3284586	1.51E-10	8.72664349	FBXL8	F-box and leucine-rich repeat protein 8
A_24_P13083	6.14E-10	5.52529669	TSPAN18	tetraspanin 18
A_23_P128246	7.89E-10	2.21361892	FICD	FIC domain containing
A_23_P25194	1.76E-09	4.30226661	HRK	harakiri, BCL2 interacting protein (contains only BH3 domain)
A_24_P345209	1.76E-09	2.85785963	DYRK3	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 3
A_23_P11331	1.80E-09	-1.39525876	TCEAL8	transcription elongation factor A (SII)-like 8
A_33_P3687198	1.83E-09	3.15088723	LOC283454	uncharacterized LOC283454
A_33_P3320112	1.98E-09	5.89449352		
A_24_P145911	2.79E-09	2.73134652	TRA2B	transformer 2 beta homolog (Drosophila)
A_23_P208210	3.74E-09	3.15500087	ZNF432	zinc finger protein 432
A_24_P291658	3.74E-09	-3.06835978	ADH1A	alcohol dehydrogenase 1A (class I), alpha polypeptide
A_23_P65307	3.74E-09	-2.23609492	SLITRK6	SLIT and NTRK-like family, member 6
A_24_P102821	3.74E-09	1.29892815	PTAFR	platelet-activating factor receptor
A_23_P412562	3.74E-09	1.76252579	C1orf162	chromosome 1 open reading frame 162
A_33_P3219601	3.74E-09	3.8946448	ABL2	v-abl Abelson murine leukemia viral oncogene homolog 2
A_33_P3382031	3.74E-09	1.74328737	TMEM236	transmembrane protein 236
A_33_P3358745	3.74E-09	-2.97539795	SEPP1	selenoprotein P, plasma, 1
A_33_P3277178	3.74E-09	6.96936825		
A_33_P3287314	3.94E-09	5.2350447		
A_33_P3422025	8.63E-09	1.39243506	DNAH12	dynein, axonemal, heavy chain 12
A_33_P3232871	8.63E-09	3.54700064	TMEM239	transmembrane protein 239
A_23_P21134	1.05E-08	3.87854226	DDIT3	DNA-damage-inducible transcript 3
A_33_P3354796	1.06E-08	2.75445567	FLJ42627	uncharacterized LOC645644
A_23_P140928	1.12E-08	0.88978185	TMC7	transmembrane channel-like 7
A_33_P3386716	1.12E-08	1.81737064	PPP1R15B	protein phosphatase 1, regulatory subunit 15B
A_33_P3400758	1.13E-08	2.25521668	ZNF555	zinc finger protein 555
A_23_P60079	1.17E-08	1.9857793	ANGPT2	angiopoietin 2
A_23_P204579	1.18E-08	2.22576961	TDG	thymine-DNA glycosylase
A_24_P926684	1.23E-08	2.77036773	UBE2D3	ubiquitin-conjugating enzyme E2D 3
A_33_P3228460	1.23E-08	5.00718812	FXYP3	FXYP domain containing ion transport regulator 3
A_33_P3334015	1.31E-08	3.98866367	C17orf103	chromosome 17 open reading frame 103
A_33_P3380056	1.58E-08	3.43263744	C9orf30	chromosome 9 open reading frame 30
A_24_P110780	1.63E-08	1.81835506	NEXN-AS1	NEXN antisense RNA 1 (non-protein coding)

A_24_P207828	1.73E-08	5.0323516	LCE2B	late cornified envelope 2B
A_33_P3326617	1.73E-08	1.03694878	FAHD1	fumarylacetoacetate hydrolase domain containing 1
A_33_P3398634	2.21E-08	-3.46089119	TFEB	transcription factor EB
A_23_P91910	2.32E-08	-1.53433478	PLSCR4	phospholipid scramblase 4
A_24_P943997	2.34E-08	1.08779332	ARL5B	ADP-ribosylation factor-like 5B
A_33_P3396766	2.34E-08	2.2511091		
A_23_P44665	2.34E-08	1.42570443	ADAM32	ADAM metallopeptidase domain 32
A_23_P433188	2.36E-08	1.04145644	GZF1	GDNF-inducible zinc finger protein 1
A_23_P48307	2.36E-08	-1.7089426	PABPC3	poly(A) binding protein, cytoplasmic 3
A_24_P104119	2.43E-08	3.52562168	RHOF	ras homolog gene family, member F (in filopodia)
A_24_P250227	2.48E-08	2.93272061	NR1D1	nuclear receptor subfamily 1, group D, member 1
A_33_P3358804	2.48E-08	4.82470703		
A_33_P3413667	2.48E-08	0.58928319	ABL2	v-abl Abelson murine leukemia viral oncogene homolog 2
A_23_P39454	2.48E-08	1.33993924	ZNF556	zinc finger protein 556
A_23_P350187	2.48E-08	1.73173519	TET2	tet methylcytosine dioxygenase 2
A_33_P3331831	2.52E-08	1.80448469	DKFZp451A211	DKFZp451A211 protein
A_33_P3353996	2.52E-08	2.93981704	PPP1R3G	protein phosphatase 1, regulatory subunit 3G
A_24_P860703	2.52E-08	2.0291646	LOC388796	uncharacterized LOC388796
A_23_P73632	2.62E-08	1.61924584	NROB1	nuclear receptor subfamily 0, group B, member 1
A_33_P3323298	2.62E-08	2.01088166	JUN	jun proto-oncogene
A_33_P3378514	2.62E-08	-1.12407982	PDE5A	phosphodiesterase 5A, cGMP-specific
A_33_P3759737	2.62E-08	2.09694366	LOC151171	uncharacterized LOC151171
A_33_P3309110	2.62E-08	0.75912705	LOC100506713	uncharacterized LOC100506713
A_23_P315364	2.62E-08	2.35852235	CXCL2	chemokine (C-X-C motif) ligand 2
A_23_P170857	2.62E-08	1.8343227	IL1RAP	interleukin 1 receptor accessory protein
A_33_P3398091	2.64E-08	0.81558032	ZNF562	zinc finger protein 562
A_23_P24129	2.65E-08	3.48569781	DKK1	dickkopf 1 homolog (Xenopus laevis)
A_33_P3544856	2.70E-08	0.63170578	LOC100292680	uncharacterized LOC100292680
A_23_P251785	2.70E-08	1.66442098	NAA16	N(alpha)-acetyltransferase 16, NatA auxiliary subunit
A_33_P3337485	2.74E-08	-1.41314155	CD248	CD248 molecule, endosialin
A_23_P257583	2.74E-08	-0.88089186	DENND2A	DENN/MADD domain containing 2A
A_23_P360626	2.79E-08	2.77786307	PLD6	phospholipase D family, member 6
A_23_P38482	3.03E-08	1.46969988	PHF23	PHD finger protein 23
A_23_P146058	3.03E-08	1.72023755	ATP6V1C1	ATPase, H ⁺ transporting, lysosomal 42kDa, V1 subunit C1
A_24_P349547	3.03E-08	0.91660325		
A_24_P350228	3.03E-08	3.76345868	SLC22A23	solute carrier family 22, member 23
A_23_P46936	3.12E-08	2.90937808	EGR2	early growth response 2

A_33_P3384498	3.34E-08	2.83841461	LOC100128946	uncharacterized LOC100128946
A_33_P3231187	3.34E-08	1.77926717	XIAP	X-linked inhibitor of apoptosis
A_23_P18078	3.44E-08	-2.01785434	RARRES1	retinoic acid receptor responder (tazarotene induced) 1
A_23_P157809	3.44E-08	-1.52597873	PTGR1	prostaglandin reductase 1
A_23_P153256	3.50E-08	0.95808255	ZNF773	zinc finger protein 773
A_33_P3305487	3.50E-08	1.09446773	REM2	RAS (RAD and GEM)-like GTP binding 2
A_23_P127406	3.50E-08	2.08186058	KDM4D	lysine (K)-specific demethylase 4D
A_24_P412156	3.52E-08	-1.82499244	CXCL12	chemokine (C-X-C motif) ligand 12
A_24_P941188	3.52E-08	1.93155251	OTUD3	OTU domain containing 3
A_33_P3217218	3.52E-08	1.34007943	AGPAT5	1-acylglycerol-3-phosphate O-acyltransferase 5 (lysophosphatidic acid acyltransferase, epsilon)
A_23_P118571	3.52E-08	0.84709786	SOST	sclerostin
A_33_P3270863	3.64E-08	1.44347432	XDH	xanthine dehydrogenase
A_33_P3357421	3.66E-08	2.06379657		
A_24_P398810	3.68E-08	2.61394676	EIF5	eukaryotic translation initiation factor 5
A_33_P3388222	3.73E-08	3.6294728	LOC642620	hCG1999814
A_23_P202448	3.78E-08	-1.90302028	CXCL12	chemokine (C-X-C motif) ligand 12
A_33_P3337549	3.78E-08	0.62628889	ABCB5	ATP-binding cassette, sub-family B (MDR/TAP), member 5
A_33_P3231297	3.78E-08	-2.06711141	CREG1	cellular repressor of E1A-stimulated genes 1
A_23_P154708	3.89E-08	2.28098432	HAO1	hydroxyacid oxidase (glycolate oxidase) 1
A_33_P3251227	3.94E-08	1.8326784	C1GALT1	core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase, 1
A_23_P62081	4.09E-08	-1.2326843	SCG5	secretogranin V (7B2 protein)
A_33_P3240244	4.09E-08	4.08320398	C2CD4D	C2 calcium-dependent domain containing 4D
A_24_P515319	4.09E-08	1.61666648	FAM90A7	family with sequence similarity 90, member A7
A_23_P356425	4.16E-08	0.54623555	AXDND1	axonemal dynein light chain domain containing 1
A_24_P355267	4.31E-08	2.60261497	SLC25A25	solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 25
A_24_P201064	4.31E-08	1.1073706	PPP1R3B	protein phosphatase 1, regulatory subunit 3B
A_23_P23356	4.31E-08	1.78397178	RRP15	ribosomal RNA processing 15 homolog (S. cerevisiae)
A_23_P328740	4.31E-08	1.43537418	NEURL3	neuralized homolog 3 (Drosophila) pseudogene
A_23_P34915	4.31E-08	2.65897472	ATF3	activating transcription factor 3
A_33_P3593715	4.46E-08	0.86791611	LINC00114	long intergenic non-protein coding RNA 114
A_23_P106773	4.47E-08	-0.71955548	SULT1A2	sulfotransferase family, cytosolic, 1A, phenol-preferring, member 2
A_23_P151970	4.47E-08	1.28674455	FEM1B	fem-1 homolog b (C. elegans)
A_33_P3269824	4.47E-08	0.91431029	LRRC66	leucine rich repeat containing 66
A_23_P156683	4.50E-08	3.000703	LTA	lymphotoxin alpha (TNF superfamily, member 1)
A_33_P3251771	4.50E-08	1.9196552	CYLD	cylindromatosis (turban tumor syndrome)
A_24_P400473	4.54E-08	1.56088254	SLC25A44	solute carrier family 25, member 44
A_23_P148047	4.72E-08	2.46726734	PTGER4	prostaglandin E receptor 4 (subtype EP4)

A_23_P161152	4.78E-08	0.86711482	PDSS1	prenyl (decaprenyl) diphosphate synthase, subunit 1
A_33_P3369393	4.83E-08	0.92962345	NCF1	neutrophil cytosolic factor 1
A_23_P209735	4.83E-08	-1.52659995	ARMC9	armadillo repeat containing 9
A_23_P253752	4.90E-08	1.17354548	FAM54A	family with sequence similarity 54, member A
A_23_P390190	5.00E-08	3.50904974	NUPL1	nucleoporin like 1
A_24_P251962	5.24E-08	-0.77620508	PCDHB2	protocadherin beta 2
A_23_P35148	5.25E-08	1.53404382	TAF13	TAF13 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 18kDa
A_23_P654	5.25E-08	1.43011433	ZBTB17	zinc finger and BTB domain containing 17
A_24_P86240	5.25E-08	1.23070772	BMP2K	BMP2 inducible kinase
A_23_P138975	5.25E-08	1.54665912	RBM7	RNA binding motif protein 7
A_33_P3360823	5.25E-08	1.81071722	C10orf88	chromosome 10 open reading frame 88
A_23_P206612	5.28E-08	1.475572	USP31	ubiquitin specific peptidase 31
A_33_P3234697	5.29E-08	-1.91073701	LXN	latexin
A_23_P131348	5.30E-08	1.20297474	THUMPD2	THUMP domain containing 2
A_23_P257091	5.45E-08	2.49139769	NUP214	nucleoporin 214kDa
A_33_P3360814	5.59E-08	5.77779981	NFE4	transcription factor NF-E4
A_33_P3341189	5.60E-08	-0.75453604	UBE2A	ubiquitin-conjugating enzyme E2A
A_33_P3246995	5.60E-08	2.96732494		
A_33_P3358601	5.64E-08	1.07523794	IFITM10	interferon induced transmembrane protein 10
A_24_P389916	5.79E-08	-1.53551725	LRRC32	leucine rich repeat containing 32
A_23_P138849	5.86E-08	0.95084844	KAT5	K(lysine) acetyltransferase 5
A_33_P3240229	5.86E-08	1.36075352	CREBBP	CREB binding protein
A_24_P21715	5.88E-08	1.72889731	RAD9A	RAD9 homolog A (S. pombe)
A_33_P3218252	6.02E-08	1.51976037	SMG1	smg-1 homolog, phosphatidylinositol 3-kinase-related kinase (C. elegans)
A_23_P139500	6.02E-08	3.59281408	BHLHE41	basic helix-loop-helix family, member e41
A_24_P149713	6.21E-08	1.09362797	ZBTB43	zinc finger and BTB domain containing 43
A_23_P114423	6.30E-08	-1.06016728	RGN	regucalcin (senescence marker protein-30)
A_24_P361167	6.30E-08	0.88726724	CHD8	chromodomain helicase DNA binding protein 8
A_23_P121926	6.30E-08	-2.90070395	SEPP1	selenoprotein P, plasma, 1
A_23_P39263	6.50E-08	1.36348333	ZNF57	zinc finger protein 57
A_24_P379750	6.67E-08	1.39640609	MXD1	MAX dimerization protein 1
A_23_P77859	6.92E-08	1.07860908	TMEM88	transmembrane protein 88
A_23_P157495	6.92E-08	1.09261396	PPP3CC	protein phosphatase 3, catalytic subunit, gamma isozyme
A_24_P506977	6.92E-08	1.78827952	C7orf40	chromosome 7 open reading frame 40
A_33_P3287223	6.95E-08	-1.03680369	DPP4	dipeptidyl-peptidase 4
A_23_P79818	6.95E-08	0.90327995	C20orf111	chromosome 20 open reading frame 111
A_33_P3237699	6.96E-08	1.21796371	RMND5A	required for meiotic nuclear division 5 homolog A (S. cerevisiae)

A_33_P3381338	7.02E-08	-1.29905035	TNXB	tenascin XB
A_23_P160466	7.26E-08	1.82265663	SLC19A2	solute carrier family 19 (thiamine transporter), member 2
A_33_P3818787	7.41E-08	-1.11756147	LOC344967	acyl-CoA thioesterase 7 pseudogene
A_23_P56559	7.42E-08	0.59574537	DHRS9	dehydrogenase/reductase (SDR family) member 9
A_33_P3219572	7.43E-08	0.57903867	LONRF3	LON peptidase N-terminal domain and ring finger 3
A_33_P3807268	7.43E-08	-0.66472291	DNAJA1P5	DnaJ (Hsp40) homolog, subfamily A, member 1 pseudogene 5
A_24_P177604	7.43E-08	1.1165091	PPP1R3F	protein phosphatase 1, regulatory subunit 3F
A_23_P156667	7.43E-08	3.08731392	PPP1R10	protein phosphatase 1, regulatory subunit 10
A_23_P308954	7.52E-08	1.24310933	BHLHB9	basic helix-loop-helix domain containing, class B, 9
A_23_P44466	7.52E-08	-0.96760939	CCDC102B	coiled-coil domain containing 102B
A_33_P3211432	7.52E-08	0.99873592	NCF1	neutrophil cytosolic factor 1
A_23_P431252	7.52E-08	1.42767955	KBTBD8	kelch repeat and BTB (POZ) domain containing 8
A_33_P3310696	7.52E-08	1.19331804	UBE2J2	ubiquitin-conjugating enzyme E2, J2
A_33_P3241388	7.52E-08	1.7396457	SLC4A5	solute carrier family 4, sodium bicarbonate cotransporter, member 5
A_32_P928190	7.52E-08	0.95142834		
A_33_P3278684	7.53E-08	0.90401658		
A_33_P3255914	8.04E-08	1.68018771	MYLIP	myosin regulatory light chain interacting protein
A_23_P50897	8.04E-08	0.91776565	MKI67IP	MKI67 (FHA domain) interacting nucleolar phosphoprotein
A_23_P7212	8.04E-08	-1.00066858	CFI	complement factor I
A_32_P102935	8.32E-08	1.10155548	SPDYA	speedy homolog A (<i>Xenopus laevis</i>)
A_23_P25433	8.34E-08	1.18414712	C12orf4	chromosome 12 open reading frame 4
A_33_P3645465	8.35E-08	-0.74829203	LOC282997	uncharacterized LOC282997
A_24_P371962	8.58E-08	2.05196455	AMD1	adenosylmethionine decarboxylase 1
A_33_P3338449	8.58E-08	1.39704492	SGK494	uncharacterized serine/threonine-protein kinase SgK494
A_23_P24275	8.58E-08	1.58051723	IDI2-AS1	IDI2 antisense RNA 1 (non-protein coding)
A_23_P98310	8.64E-08	1.31913281	CSTF3	cleavage stimulation factor, 3' pre-RNA, subunit 3, 77kDa
A_32_P45974	8.70E-08	0.92250477	LOC100134167	uncharacterized protein C2orf27-like
A_23_P3552	9.16E-08	0.85452786		
A_23_P74914	9.26E-08	1.50244729	URB2	URB2 ribosome biogenesis 2 homolog (<i>S. cerevisiae</i>)
A_33_P3290403	9.26E-08	-0.91383309	IMPA2	inositol(myo)-1(or 4)-monophosphatase 2
A_33_P3395219	9.27E-08	1.53677338	NEXN-AS1	NEXN antisense RNA 1 (non-protein coding)
A_23_P128940	9.54E-08	1.58486354	METTL21D	methyltransferase like 21D
A_24_P171983	9.56E-08	-1.31113417	NDUFAF4	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, assembly factor 4
A_33_P3395369	9.80E-08	1.51110616	AMD1	adenosylmethionine decarboxylase 1
A_33_P3266025	9.97E-08	1.46802145		
A_24_P376556	9.97E-08	1.2514139	CYCS	cytochrome c, somatic
A_33_P3367692	9.97E-08	-1.27574511	CFH	complement factor H

A_23_P20392	9.97E-08	-0.63284752	PSD3	pleckstrin and Sec7 domain containing 3
A_33_P3268318	9.97E-08	0.68304371		
A_33_P3270311	9.97E-08	1.01460408	HECW2	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 2
A_33_P3252800	1.05E-07	0.77378545	PTPRR	protein tyrosine phosphatase, receptor type, R
A_33_P3219303	1.07E-07	3.48149209	CEL	carboxyl ester lipase (bile salt-stimulated lipase)
A_23_P427217	1.07E-07	2.46864123	JMJD1C	jumonji domain containing 1C
A_23_P143047	1.07E-07	0.47747805	ATP6V1E2	ATPase, H ⁺ transporting, lysosomal 31kDa, V1 subunit E2
A_24_P21752	1.08E-07	1.01984645	TBRG1	transforming growth factor beta regulator 1
A_23_P12343	1.11E-07	-1.52981724	GSTM3	glutathione S-transferase mu 3 (brain)
A_33_P3310976	1.14E-07	2.64059412		
A_23_P16652	1.15E-07	2.05814229	ZNF555	zinc finger protein 555
A_33_P3410060	1.16E-07	0.7844718	TLL6	tubulin tyrosine ligase-like family, member 6
A_32_P430695	1.18E-07	0.71540616	C3orf35	chromosome 3 open reading frame 35
A_23_P114626	1.18E-07	0.96224779	SERPINC1	serpin peptidase inhibitor, clade C (antithrombin), member 1
A_33_P3383065	1.19E-07	0.48130838	LOC100130705	uncharacterized LOC100130705
A_23_P53390	1.20E-07	1.28531809	PTPRB	protein tyrosine phosphatase, receptor type, B
A_32_P14843	1.22E-07	1.06291598	NPIPL2	nuclear pore complex interacting protein-like 2
A_23_P48747	1.22E-07	-0.91264434	DHRS1	dehydrogenase/reductase (SDR family) member 1
A_23_P62840	1.25E-07	1.54262094	YRDC	yrdC domain containing (E. coli)
A_33_P3311403	1.26E-07	-2.34052031	MRVI1	murine retrovirus integration site 1 homolog
A_24_P211565	1.32E-07	-0.52337787	C1QTNF6	C1q and tumor necrosis factor related protein 6
A_23_P120863	1.35E-07	0.75146719	GAL3ST1	galactose-3-O-sulfotransferase 1
A_33_P3271684	1.35E-07	1.29382351	TMEM236	transmembrane protein 236
A_23_P122674	1.35E-07	1.31866151	PAK1IP1	PAK1 interacting protein 1
A_24_P382489	1.35E-07	-1.08349905	SLC27A1	solute carrier family 27 (fatty acid transporter), member 1
A_33_P3349414	1.35E-07	2.41096366	ZBTB43	zinc finger and BTB domain containing 43
A_33_P3373750	1.37E-07	2.51665614	BRD4	bromodomain containing 4
A_23_P9662	1.37E-07	-0.85265896	IPP	intracisternal A particle-promoted polypeptide
A_33_P3283669	1.37E-07	3.15646325	ATP1A3	ATPase, Na ⁺ /K ⁺ transporting, alpha 3 polypeptide
A_23_P54179	1.37E-07	1.5397486	ZNF410	zinc finger protein 410
A_33_P3843873	1.37E-07	1.48978459	ESRG	embryonic stem cell related (non-protein coding)
A_32_P342064	1.37E-07	-0.90550358	FTH1	ferritin, heavy polypeptide 1
A_33_P3322328	1.37E-07	-0.90242253	EPS15	epidermal growth factor receptor pathway substrate 15
A_33_P3316223	1.37E-07	0.67127875	SNAPC1	small nuclear RNA activating complex, polypeptide 1, 43kDa
A_33_P3252915	1.39E-07	0.60796022	RNF7	ring finger protein 7
A_23_P47058	1.39E-07	0.47908474	CUZD1	CUB and zona pellucida-like domains 1
A_33_P3363445	1.39E-07	0.62303942		

A_23_P53267	1.40E-07	1.96946804	RSRC2	arginine/serine-rich coiled-coil 2
A_33_P3288774	1.41E-07	1.1935143	RC3H1	ring finger and CCCH-type domains 1
A_23_P16817	1.41E-07	1.72591693	CLK1	CDC-like kinase 1
A_32_P51787	1.42E-07	0.82369377		
A_23_P206661	1.44E-07	-1.73083067	NQO1	NAD(P)H dehydrogenase, quinone 1
A_23_P337729	1.46E-07	-0.84884585	TMEM180	transmembrane protein 180
A_33_P3385957	1.49E-07	-0.85113489	TTL1	tubulin tyrosine ligase-like family, member 1
A_23_P72117	1.51E-07	-1.02981596	SMPDL3A	sphingomyelin phosphodiesterase, acid-like 3A
A_33_P3214720	1.51E-07	1.1943582	ZC3H12A	zinc finger CCCH-type containing 12A
A_23_P88106	1.51E-07	1.34385457	MCF2L	MCF.2 cell line derived transforming sequence-like
A_23_P106835	1.51E-07	-1.22661333	BBS2	Bardet-Biedl syndrome 2
A_33_P3344477	1.53E-07	1.99779998	FERMT2	fermitin family member 2
A_23_P302005	1.53E-07	-1.21961989	STON1	stonin 1
A_23_P85693	1.55E-07	-1.37650433	GBP2	guanylate binding protein 2, interferon-inducible
A_33_P3392537	1.58E-07	-1.15588406	TK2	thymidine kinase 2, mitochondrial
A_33_P3335386	1.60E-07	2.95491668	FAM83G	family with sequence similarity 83, member G
A_33_P3419314	1.60E-07	0.49332013	CHD5	chromodomain helicase DNA binding protein 5
A_33_P3369760	1.60E-07	-0.84374304	GLIPR2	GLI pathogenesis-related 2
A_23_P89073	1.64E-07	1.79806433	ZNF23	zinc finger protein 23 (KOX 16)
A_32_P234827	1.64E-07	-0.77574262	ARMC1	armadillo repeat containing 1
A_23_P392222	1.64E-07	-0.94052675	SWI5	SWI5 recombination repair homolog (yeast)
A_23_P105138	1.65E-07	-1.15471858	CAT	catalase
A_23_P74981	1.66E-07	1.52037786	ZNF670	zinc finger protein 670
A_33_P3252394	1.68E-07	1.85018544	GADD45G	growth arrest and DNA-damage-inducible, gamma
A_23_P360179	1.73E-07	0.67018338	NEURL4	neuralized homolog 4 (Drosophila)
A_33_P3312222	1.73E-07	2.59991186	LOC729706	putative TAF11-like protein ENSP00000332601-like
A_23_P94422	1.73E-07	0.56354065	MELK	maternal embryonic leucine zipper kinase
A_32_P61684	1.73E-07	1.08901576	PAG1	phosphoprotein associated with glycosphingolipid microdomains 1
A_23_P12082	1.74E-07	-0.80377869	CHI3L2	chitinase 3-like 2
A_33_P3353125	1.75E-07	1.6678098		
A_24_P156288	1.76E-07	1.30930318	GZF1	GDNF-inducible zinc finger protein 1
A_23_P69810	1.77E-07	1.27299956	AGPAT9	1-acylglycerol-3-phosphate O-acyltransferase 9
A_33_P3353737	1.78E-07	-1.18695323	ADH1B	alcohol dehydrogenase 1B (class I), beta polypeptide
A_24_P153853	1.80E-07	0.82235673	TRIM37	tripartite motif containing 37
A_32_P60065	1.85E-07	-1.17727882	F2RL2	coagulation factor II (thrombin) receptor-like 2
A_33_P3336038	1.88E-07	-0.94101065		
A_23_P250118	1.88E-07	1.71539391	HSPBAP1	HSPB (heat shock 27kDa) associated protein 1

A_23_P315836	1.88E-07	0.41705878	BAIAP2	BAI1-associated protein 2
A_33_P3282840	1.88E-07	-1.12583938	RPS29	ribosomal protein S29
A_23_P212639	1.88E-07	1.25905769	TRA2B	transformer 2 beta homolog (Drosophila)
A_33_P3347343	1.88E-07	-1.18028838	CCDC102B	coiled-coil domain containing 102B
A_24_P138713	1.88E-07	0.87217804	HEATR3	HEAT repeat containing 3
A_24_P153456	1.91E-07	0.69213758	ZDHC11	zinc finger, DHHC-type containing 11
A_23_P171249	1.91E-07	-1.16364996	IGBP1	immunoglobulin (CD79A) binding protein 1
A_23_P83098	1.92E-07	-1.29594539	ALDH1A1	aldehyde dehydrogenase 1 family, member A1
A_32_P189204	1.92E-07	2.14500222	GAS2L3	growth arrest-specific 2 like 3
A_23_P57697	1.93E-07	0.95988947	DHX36	DEAH (Asp-Glu-Ala-His) box polypeptide 36
A_33_P3268124	1.93E-07	1.18070684	ZNF654	zinc finger protein 654
A_23_P42746	1.93E-07	0.59721181	NCF1	neutrophil cytosolic factor 1
A_23_P16976	2.02E-07	-1.41171404	ANXA4	annexin A4
A_23_P259621	2.02E-07	1.43909502	LAT2	linker for activation of T cells family, member 2
A_24_P898945	2.02E-07	1.68146042	C18orf19	chromosome 18 open reading frame 19
A_23_P156327	2.02E-07	-2.24128191	TGFBI	transforming growth factor, beta-induced, 68kDa
A_23_P102391	2.03E-07	-1.74000438	SLC40A1	solute carrier family 40 (iron-regulated transporter), member 1
A_23_P148484	2.03E-07	1.61167015	RLIM	ring finger protein, LIM domain interacting
A_23_P75811	2.03E-07	2.34824249	SLC3A2	solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2
A_23_P204286	2.04E-07	-1.58743478	MGP	matrix Gla protein
A_33_P3263417	2.04E-07	0.69299874	FLJ43663	uncharacterized LOC378805
A_33_P3402763	2.06E-07	0.8579552	MKI67IP	MKI67 (FHA domain) interacting nucleolar phosphoprotein
A_33_P3494875	2.06E-07	-1.42792859	LOC100506748	uncharacterized LOC100506748
A_24_P67552	2.07E-07	0.77655994		
A_33_P3333982	2.07E-07	-0.78075617	PDE4DIP	phosphodiesterase 4D interacting protein
A_23_P105833	2.11E-07	-0.54311817	BIVM	basic, immunoglobulin-like variable motif containing
A_33_P3308744	2.11E-07	-1.5244262	LAMA4	laminin, alpha 4
A_33_P3443165	2.15E-07	1.28767919	RAE1	RAE1 RNA export 1 homolog (S. pombe)
A_23_P48610	2.17E-07	1.72873509	TMEM55B	transmembrane protein 55B
A_23_P417974	2.22E-07	0.88572391	AQP11	aquaporin 11
A_23_P63209	2.22E-07	-2.15011519	HSD11B1	hydroxysteroid (11-beta) dehydrogenase 1
A_24_P58337	2.23E-07	-1.21855381	FTH1	ferritin, heavy polypeptide 1
A_23_P202219	2.23E-07	-1.17289678	CALHM2	calcium homeostasis modulator 2
A_23_P143885	2.27E-07	-1.0387118	ARHGEF3	Rho guanine nucleotide exchange factor (GEF) 3
A_33_P3358938	2.27E-07	1.71536907	CLOCK	clock homolog (mouse)
A_24_P627306	2.27E-07	-0.92117592	EDEM2	ER degradation enhancer, mannosidase alpha-like 2
A_24_P156922	2.28E-07	-0.8043788	SCP2	sterol carrier protein 2

A_33_P3404014	2.32E-07	0.62673652	C20orf107	chromosome 20 open reading frame 107
A_33_P3304983	2.32E-07	-0.7348828	PRKAR2B	protein kinase, cAMP-dependent, regulatory, type II, beta
A_33_P3212823	2.35E-07	0.86109628	LOC100132247	nuclear pore complex interacting protein related gene
A_23_P132644	2.35E-07	1.52593899	NCEH1	neutral cholesterol ester hydrolase 1
A_23_P165840	2.35E-07	1.55753929	ODC1	ornithine decarboxylase 1
A_23_P407112	2.35E-07	-0.93460154	SPATA18	spermatogenesis associated 18 homolog (rat)
A_23_P348183	2.36E-07	1.04419754	C6orf223	chromosome 6 open reading frame 223
A_23_P353035	2.37E-07	-1.09827501	IGFBP7	insulin-like growth factor binding protein 7
A_23_P38167	2.37E-07	0.6471174	GPRC5C	G protein-coupled receptor, family C, group 5, member C
A_33_P3261610	2.37E-07	-1.25750962	POLR3GL	polymerase (RNA) III (DNA directed) polypeptide G (32kD)-like
A_23_P168828	2.38E-07	2.44357735	KLF10	Kruppel-like factor 10
A_24_P157926	2.38E-07	2.47714003	TNFAIP3	tumor necrosis factor, alpha-induced protein 3
A_23_P501007	2.42E-07	-1.76682689	EFEMP1	EGF containing fibulin-like extracellular matrix protein 1
A_23_P156355	2.48E-07	1.29943392	TMEM161B	transmembrane protein 161B
A_33_P3348494	2.53E-07	1.27164412	PCID2	PCI domain containing 2
A_33_P3281283	2.54E-07	-1.43120233	S1PR3	sphingosine-1-phosphate receptor 3
A_33_P3247644	2.56E-07	-1.06113461	C7orf41	chromosome 7 open reading frame 41
A_23_P159952	2.61E-07	1.41035688	BEX1	brain expressed, X-linked 1
A_23_P1145	2.61E-07	1.51120038	MTPAP	mitochondrial poly(A) polymerase
A_24_P318593	2.61E-07	-0.78998099	SCRN2	secernin 2
A_23_P33894	2.62E-07	-1.09108106	MAGED2	melanoma antigen family D, 2
A_24_P35478	2.64E-07	2.82866832	PARD3	par-3 partitioning defective 3 homolog (C. elegans)
A_23_P3212	2.64E-07	-0.66220271	DTWD1	DTW domain containing 1
A_23_P428382	2.65E-07	1.28138913	AFTPH	aftiphilin
A_24_P274615	2.65E-07	2.31474751	ARRDC3	arrestin domain containing 3
A_23_P100660	2.65E-07	-1.52712506	SERPINF1	serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1
A_23_P118615	2.65E-07	-0.71461672	ABCA8	ATP-binding cassette, sub-family A (ABC1), member 8
A_24_P107897	2.65E-07	0.9690608	TXNDC11	thioredoxin domain containing 11
A_33_P3253807	2.66E-07	2.11147117	CEBPG	CCAAT/enhancer binding protein (C/EBP), gamma
A_23_P154488	2.67E-07	2.05887562	PNPT1	polyribonucleotide nucleotidyltransferase 1
A_23_P35529	2.68E-07	0.64569925	MBL2	mannose-binding lectin (protein C) 2, soluble
A_23_P45324	2.68E-07	-1.3273879	TMEM35	transmembrane protein 35
A_33_P3252141	2.69E-07	-0.91095841	TMX3	thioredoxin-related transmembrane protein 3
A_23_P85164	2.69E-07	-0.97016866	DNASE1L1	deoxyribonuclease I-like 1
A_24_P418152	2.69E-07	1.60708676	FLJ40194	uncharacterized FLJ40194
A_23_P334608	2.74E-07	-0.80948794	GUSB	glucuronidase, beta
A_23_P384532	2.75E-07	0.88087672	CCDC11	coiled-coil domain containing 11

A_33_P3238685	2.75E-07	1.38248656	TET2	tet methylcytosine dioxygenase 2
A_33_P3229241	2.75E-07	1.26518664	HIST2H2BF	histone cluster 2, H2bf
A_23_P157299	2.75E-07	-1.1547676	AEBP1	AE binding protein 1
A_23_P138541	2.77E-07	-2.34743258	AKR1C3	aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid dehydrogenase, type II)
A_23_P55477	2.77E-07	1.20396467	ADORA2B	adenosine A2b receptor
A_23_P15844	2.80E-07	1.67962089	BRIP1	BRCA1 interacting protein C-terminal helicase 1
A_23_P32454	2.81E-07	0.98932925	TG	thyroglobulin
A_24_P391991	2.84E-07	0.33360278	FAM183B	acyloxyacyl hydrolase (neutrophil)
A_23_P11995	2.84E-07	-1.25750605	PRDX1	peroxiredoxin 1
A_23_P55388	2.84E-07	0.59593849	KLHL11	kelch-like 11 (Drosophila)
A_24_P125839	2.84E-07	1.09280692	C21orf91	chromosome 21 open reading frame 91
A_23_P60146	2.91E-07	-1.21955405	PDGFRL	platelet-derived growth factor receptor-like
A_23_P306655	2.91E-07	0.95015186	AMIGO3	adhesion molecule with Ig-like domain 3
A_24_P388528	2.91E-07	-0.88987068	ST6GAL1	ST6 beta-galactosamide alpha-2,6-sialyltransferase 1
A_23_P70060	2.91E-07	-0.83274556	PPAP2A	phosphatidic acid phosphatase type 2A
A_23_P370569	2.91E-07	0.66229952	C12orf66	chromosome 12 open reading frame 66
A_23_P351275	2.92E-07	1.37029787	UPP1	uridine phosphorylase 1
A_24_P300302	2.92E-07	0.5834645	ZNF300P1	zinc finger protein 300 pseudogene 1
A_23_P117146	2.92E-07	1.54471866	PRDM4	PR domain containing 4
A_23_P63847	2.92E-07	1.83414777	SUPV3L1	suppressor of var1, 3-like 1 (S. cerevisiae)
A_32_P119248	2.95E-07	1.52284767	FOXO4	forkhead box D4
A_24_P304987	2.99E-07	1.19399331	SAP30BP	SAP30 binding protein
A_23_P151059	2.99E-07	1.89657889	FAM90A1	family with sequence similarity 90, member A1
A_33_P3289005	2.99E-07	1.02734972	AP1S3	adaptor-related protein complex 1, sigma 3 subunit
A_23_P97632	2.99E-07	-0.69507434	EPRS	glutamyl-prolyl-tRNA synthetase
A_24_P189739	2.99E-07	2.19535895	DUSP16	dual specificity phosphatase 16
A_23_P50081	2.99E-07	-1.32519837	IMPA2	inositol(myo)-1(or 4)-monophosphatase 2
A_33_P3228445	2.99E-07	1.16472345	FXRD2	FXRD domain containing ion transport regulator 2
A_23_P107116	2.99E-07	-1.42713476	RNF112	ring finger protein 112
A_23_P82693	3.00E-07	-1.56906876	PABPC1	poly(A) binding protein, cytoplasmic 1
A_23_P150693	3.00E-07	3.06705929	FJX1	four jointed box 1 (Drosophila)
A_24_P329795	3.02E-07	-2.35964022	C10orf10	chromosome 10 open reading frame 10
A_33_P3313401	3.08E-07	1.28458679	CYCS	cytochrome c, somatic
A_33_P3232532	3.19E-07	1.61124081	EDEM3	ER degradation enhancer, mannosidase alpha-like 3
A_23_P79942	3.20E-07	1.21133215	PANK2	pantothenate kinase 2
A_23_P46149	3.21E-07	-1.11772559	GPR137B	G protein-coupled receptor 137B
A_33_P3391803	3.21E-07	-1.19861905		

A_23_P108673	3.21E-07	1.32063611	FAM176A	family with sequence similarity 176, member A
A_33_P3328410	3.24E-07	2.58363354		
A_33_P3224730	3.26E-07	0.89174072		
A_24_P296508	3.26E-07	-1.10862352	SLC43A2	solute carrier family 43, member 2
A_23_P366726	3.26E-07	-0.50571071	SLC25A35	solute carrier family 25, member 35
A_24_P68019	3.26E-07	1.09528014	ZNF551	zinc finger protein 551
A_23_P339818	3.26E-07	1.97769661	ARRDC4	arrestin domain containing 4
A_24_P29445	3.29E-07	-1.72440183	TMEM14B	transmembrane protein 14B
A_23_P118722	3.30E-07	1.76686025	ASGR1	asialoglycoprotein receptor 1
A_23_P393034	3.33E-07	0.41267616	HAS3	hyaluronan synthase 3
A_23_P153767	3.34E-07	1.1484528	AKAP8L	A kinase (PRKA) anchor protein 8-like
A_33_P3240767	3.36E-07	1.15649237	CIDEA	cell death-inducing DFFA-like effector c
A_33_P3360530	3.36E-07	1.17204033		
A_23_P2041	3.38E-07	1.06561342	MICALCL	MICAL C-terminal like
A_23_P23221	3.38E-07	3.14896312	GADD45A	growth arrest and DNA-damage-inducible, alpha
A_32_P36046	3.38E-07	-0.48670838	C2orf68	chromosome 2 open reading frame 68
A_33_P3413541	3.43E-07	1.03576072	RNF138P1	ring finger protein 138 pseudogene 1
A_33_P3402116	3.51E-07	-2.84941419	EIF2C1	eukaryotic translation initiation factor 2C, 1
A_23_P78209	3.52E-07	1.39238496	MAFG	v-maf musculoaponeurotic fibrosarcoma oncogene homolog G (avian)
A_23_P251937	3.54E-07	1.3399181	CPEB4	cytoplasmic polyadenylation element binding protein 4
A_24_P252996	3.54E-07	1.90037117	FOLR3	folate receptor 3 (gamma)
A_23_P336513	3.55E-07	0.83012034	GEMIN5	gem (nuclear organelle) associated protein 5
A_33_P3296366	3.56E-07	1.25952862	PODXL2	podocalyxin-like 2
A_23_P209731	3.60E-07	-1.29882651	ARMC9	armadillo repeat containing 9
A_23_P410717	3.61E-07	2.24830397	C1orf51	chromosome 1 open reading frame 51
A_23_P78664	3.62E-07	1.21971816	DDX39A	DEAD (Asp-Glu-Ala-Asp) box polypeptide 39A
A_32_P47754	3.63E-07	1.70683429	SLC2A14	solute carrier family 2 (facilitated glucose transporter), member 14
A_24_P222599	3.65E-07	1.38471454	PDPK1	3-phosphoinositide dependent protein kinase-1
A_33_P3421674	3.65E-07	0.65542476		
A_32_P71571	3.65E-07	2.2906404	FAM19A4	family with sequence similarity 19 (chemokine (C-C motif)-like), member A4
A_23_P130764	3.78E-07	1.14340985	KCNJ14	potassium inwardly-rectifying channel, subfamily J, member 14
A_33_P3372217	3.78E-07	1.01775674	PSG5	pregnancy specific beta-1-glycoprotein 5
A_23_P50907	3.79E-07	-1.30360802	ITGAV	integrin, alpha V (vitronectin receptor, alpha polypeptide, antigen CD51)
A_23_P114740	3.79E-07	-1.214851	CFH	complement factor H
A_32_P18493	3.79E-07	-0.89709485		
A_23_P79836	3.79E-07	-0.67534141	SERINC3	serine incorporator 3
A_24_P323941	3.79E-07	1.36110645	C20orf106	chromosome 20 open reading frame 106

A_33_P3351999	3.79E-07	2.11426		
A_24_P477051	3.79E-07	-1.31501533		
A_23_P256724	3.79E-07	-0.4607201	TNFRSF10C	tumor necrosis factor receptor superfamily, member 10c, decoy without an intracellular domain
A_33_P3224800	3.80E-07	0.695351		
A_33_P3210139	3.81E-07	2.63434359	PCF11	PCF11, cleavage and polyadenylation factor subunit, homolog (<i>S. cerevisiae</i>)
A_23_P406025	3.86E-07	-1.43529619	PRUNE2	prune homolog 2 (<i>Drosophila</i>)
A_23_P109488	3.88E-07	-0.87397592	PIK3IP1	phosphoinositide-3-kinase interacting protein 1
A_23_P215819	3.89E-07	0.82192934	ZNF655	zinc finger protein 655
A_33_P3353170	3.89E-07	0.85319653	CLTC	clathrin, heavy chain (Hc)
A_24_P183150	3.89E-07	1.04596038	CXCL3	chemokine (C-X-C motif) ligand 3
A_23_P101905	3.90E-07	0.90643862	APC2	adenomatosis polyposis coli 2
A_23_P36753	3.96E-07	-1.70296367	ALDH2	aldehyde dehydrogenase 2 family (mitochondrial)
A_23_P154447	3.96E-07	1.04959232	NOP58	NOP58 ribonucleoprotein homolog (yeast)
A_23_P364465	3.96E-07	1.20508318	GPBP1	GC-rich promoter binding protein 1
A_23_P104362	3.96E-07	-0.91196666	ECHS1	enoyl CoA hydratase, short chain, 1, mitochondrial
A_32_P464135	3.96E-07	-0.5180534	DACH2	dachshund homolog 2 (<i>Drosophila</i>)
A_33_P3267380	3.96E-07	-1.04077224	SGCD	sarcoglycan, delta (35kDa dystrophin-associated glycoprotein)
A_33_P3374365	3.96E-07	1.21927799		
A_23_P135857	3.99E-07	2.05524536	EIF2AK3	eukaryotic translation initiation factor 2-alpha kinase 3
A_23_P376449	4.00E-07	-1.07875647		
A_23_P146997	4.05E-07	0.80512748	TXLNG	taxilin gamma
A_33_P3325110	4.08E-07	-2.69404798	SOX13	SRY (sex determining region Y)-box 13
A_23_P336198	4.08E-07	0.86939227	GLCCI1	glucocorticoid induced transcript 1
A_23_P128698	4.08E-07	1.26578188	SPRY2	sprouty homolog 2 (<i>Drosophila</i>)
A_33_P3367037	4.11E-07	0.71304437		
A_33_P3396951	4.11E-07	-1.35650926	BNIP3L	BCL2/adenovirus E1B 19kDa interacting protein 3-like
A_24_P119131	4.11E-07	-0.84807118	TMEM120B	transmembrane protein 120B
A_23_P169909	4.11E-07	1.88255446	DGKI	diacylglycerol kinase, iota
A_23_P58706	4.11E-07	0.37280088	SPINK13	serine peptidase inhibitor, Kazal type 13 (putative)
A_33_P3347320	4.15E-07	2.3915928	LOC100133190	uncharacterized LOC100133190
A_23_P19673	4.15E-07	1.41036704	SGK1	serum/glucocorticoid regulated kinase 1
A_32_P114284	4.15E-07	0.92127178	IKZF2	IKAROS family zinc finger 2 (<i>Helios</i>)
A_33_P3335910	4.26E-07	1.47488633	SYNE1	spectrin repeat containing, nuclear envelope 1
A_23_P382199	4.27E-07	0.86576962	VAPA	VAMP (vesicle-associated membrane protein)-associated protein A, 33kDa
A_33_P3427239	4.31E-07	-0.66484402	LOC100134937	uncharacterized LOC100134937
A_33_P3401322	4.31E-07	0.67207595	ISG20L2	interferon stimulated exonuclease gene 20kDa-like 2
A_23_P145711	4.37E-07	0.70467128	C7orf10	chromosome 7 open reading frame 10

A_33_P3347928	4.38E-07	1.28807329	CCNL1	cyclin L1
A_23_P30223	4.38E-07	-0.67417286	SRD5A1	steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1)
A_24_P248240	4.39E-07	-0.81873361	SYT11	synaptotagmin XI
A_33_P3270429	4.39E-07	1.71736302	NR1D2	nuclear receptor subfamily 1, group D, member 2
A_24_P135769	4.52E-07	-0.86304148	VWA5A	von Willebrand factor A domain containing 5A
A_23_P26865	4.52E-07	0.50196551	MYH3	myosin, heavy chain 3, skeletal muscle, embryonic
A_24_P113221	4.52E-07	0.71874594	ZNF24	zinc finger protein 24
A_24_P192805	4.53E-07	-0.82241765	CARD17	caspase recruitment domain family, member 17
A_24_P359067	4.54E-07	0.98918544	LOC100130357	uncharacterized LOC100130357
A_33_P3812669	4.56E-07	-2.13139847	GABARAPL1	GABA(A) receptor-associated protein like 1
A_33_P3392580	4.60E-07	0.86326599	AK2	adenylate kinase 2
A_33_P3272090	4.61E-07	-0.65747205	PDE4DIP	phosphodiesterase 4D interacting protein
A_23_P382043	4.67E-07	-0.64782551	NT5DC1	5'-nucleotidase domain containing 1
A_24_P169544	4.69E-07	1.02462603	ZNF17	zinc finger protein 17
A_23_P46017	4.73E-07	-0.75614478	CCBL2	cysteine conjugate-beta lyase 2
A_23_P86731	4.76E-07	0.90867863	ZNF239	zinc finger protein 239
A_33_P3330039	4.79E-07	0.63343292	PLEKHO1	pleckstrin homology domain containing, family O member 1
A_24_P380679	4.79E-07	0.87053006	C7orf53	chromosome 7 open reading frame 53
A_33_P3343200	4.83E-07	1.83707256		
A_24_P48723	4.87E-07	-0.52299771	PTGIS	prostaglandin I2 (prostacyclin) synthase
A_24_P22746	4.89E-07	-0.40581753	ZADH2	zinc binding alcohol dehydrogenase domain containing 2
A_33_P3520738	4.96E-07	0.65450795	LOC100289650	uncharacterized LOC100289650
A_23_P212706	5.02E-07	0.57961709	ATG3	ATG3 autophagy related 3 homolog (S. cerevisiae)
A_32_P122754	5.02E-07	1.46700052	C9orf30	chromosome 9 open reading frame 30
A_23_P344853	5.07E-07	1.76023599	WDR43	WD repeat domain 43
A_33_P3676746	5.25E-07	-0.52739509	YLPM1	YLP motif containing 1
A_33_P3257015	5.28E-07	-0.78242365		
A_33_P3251796	5.30E-07	0.62580345	PDSS1	prenyl (decaprenyl) diphosphate synthase, subunit 1
A_33_P3284552	5.30E-07	2.80842715	COPE	coatamer protein complex, subunit epsilon
A_23_P156497	5.30E-07	-1.27988895	ELOVL5	ELOVL fatty acid elongase 5
A_33_P3313030	5.30E-07	-0.44133396	TXNDC15	thioredoxin domain containing 15
A_24_P129341	5.32E-07	-0.52540723	AKR1B10	aldo-keto reductase family 1, member B10 (aldose reductase)
A_33_P3248992	5.33E-07	-0.8881262	ACADSB	acyl-CoA dehydrogenase, short/branched chain
A_23_P67367	5.35E-07	0.55758678	DHDH	dihydrodiol dehydrogenase (dimeric)
A_24_P294719	5.35E-07	1.74426514	FAF2	Fas associated factor family member 2
A_24_P418536	5.35E-07	-0.78000147		
A_33_P3217704	5.36E-07	1.35177811	KIAA1539	KIAA1539

A_24_P201404	5.36E-07	-0.91143383	C11orf54	chromosome 11 open reading frame 54
A_33_P3385436	5.36E-07	0.78643963	PLAC8L1	PLAC8-like 1
A_23_P94879	5.36E-07	0.48631808	F2	coagulation factor II (thrombin)
A_33_P3289391	5.36E-07	0.97238678		
A_24_P935782	5.38E-07	1.17209215	ZNF121	zinc finger protein 121
A_33_P3261700	5.40E-07	1.03242739	ANKRD13C	ankyrin repeat domain 13C
A_23_P211106	5.44E-07	1.02458181	SETD4	SET domain containing 4
A_33_P3336810	5.51E-07	1.07834251	NUDT17	nudix (nucleoside diphosphate linked moiety X)-type motif 17
A_32_P163147	5.54E-07	2.94808552	VSIG1	V-set and immunoglobulin domain containing 1
A_23_P143713	5.57E-07	-0.83439596	APOBEC3G	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3G
A_23_P69521	5.57E-07	-0.80838944	CCNI	cyclin I
A_23_P127911	5.61E-07	-1.14869775	PAMR1	peptidase domain containing associated with muscle regeneration 1
A_33_P3424384	5.61E-07	0.81765948	THUMPD2	THUMP domain containing 2
A_23_P201996	5.63E-07	1.97455493	WAC	WW domain containing adaptor with coiled-coil
A_23_P106906	5.63E-07	-0.97437449	PPL	periplakin
A_23_P105002	5.63E-07	-0.99776448	ROM1	retinal outer segment membrane protein 1
A_33_P3333317	5.66E-07	-0.98864574	OPTN	optineurin
A_23_P301476	5.73E-07	1.16696674	C3orf33	chromosome 3 open reading frame 33
A_33_P3331188	5.81E-07	1.63617427	ARHGAP23	Rho GTPase activating protein 23
A_32_P206497	5.81E-07	0.51081201		
A_23_P205789	5.81E-07	0.83608035	GABPB1	GA binding protein transcription factor, beta subunit 1
A_33_P3210079	5.91E-07	1.14414048	SF3A2	splicing factor 3a, subunit 2, 66kDa
A_23_P68234	5.93E-07	1.13329195	GPR75	G protein-coupled receptor 75
A_32_P222684	5.93E-07	-0.99457678	PRDM6	PR domain containing 6
A_24_P360269	5.93E-07	-1.0675275	RNASET2	ribonuclease T2
A_24_P206736	5.95E-07	1.50531196	ZNF143	zinc finger protein 143
A_23_P147805	6.02E-07	0.99736723	UPP1	uridine phosphorylase 1
A_33_P3212630	6.02E-07	0.45595185	FAM90A10	family with sequence similarity 90, member A10
A_33_P3406255	6.02E-07	3.17178701		
A_23_P10182	6.03E-07	-1.15874694	ACOX2	acyl-CoA oxidase 2, branched chain
A_23_P97623	6.03E-07	1.42428903	RRAGC	Ras-related GTP binding C
A_23_P145074	6.04E-07	-2.03257114	PNRC1	proline-rich nuclear receptor coactivator 1
A_33_P3220939	6.05E-07	0.91533617	PCID2	PCI domain containing 2
A_33_P3375145	6.11E-07	1.55681843	C9orf150	chromosome 9 open reading frame 150
A_24_P46093	6.11E-07	-1.17048876	SLC6A6	solute carrier family 6 (neurotransmitter transporter, taurine), member 6
A_23_P145761	6.13E-07	0.91085967	ARL4A	ADP-ribosylation factor-like 4A
A_24_P219552	6.15E-07	-0.82577394	NFE2L1	nuclear factor (erythroid-derived 2)-like 1

A_23_P86330	6.17E-07	0.94805465	IER5	immediate early response 5
A_23_P110712	6.17E-07	1.97303697	DUSP1	dual specificity phosphatase 1
A_23_P215956	6.22E-07	2.40620738	MYC	v-myc myelocytomatosis viral oncogene homolog (avian)
A_24_P275073	6.24E-07	-0.65672173	ADAMTS14	ADAM metalloproteinase with thrombospondin type 1 motif, 14
A_32_P164246	6.26E-07	-0.7922866	FOXQ1	forkhead box Q1
A_33_P3238280	6.26E-07	0.53898334	ESYT3	extended synaptotagmin-like protein 3
A_24_P291426	6.26E-07	0.52461258	REV1	REV1 homolog (S. cerevisiae)
A_32_P230196	6.26E-07	1.32125528	AGAP7	ArfGAP with GTPase domain, ankyrin repeat and PH domain 7
A_23_P332374	6.28E-07	1.35805985	ZNF175	zinc finger protein 175
A_33_P3321150	6.29E-07	1.27738616	CUL3	cullin 3
A_23_P306933	6.29E-07	1.69138946	PPTC7	PTC7 protein phosphatase homolog (S. cerevisiae)
A_33_P3423721	6.42E-07	1.73835238	JPH3	junctophilin 3
A_33_P3332671	6.44E-07	2.05699001	PKD1L3	polycystic kidney disease 1-like 3
A_33_P3250348	6.56E-07	-0.98901015	PCDH18	protocadherin 18
A_23_P79622	6.56E-07	-1.15216711	FKBP7	FK506 binding protein 7
A_23_P331928	6.61E-07	-1.28873095	CD109	CD109 molecule
A_23_P417891	6.61E-07	0.4186373	ARHGEF7	Rho guanine nucleotide exchange factor (GEF) 7
A_32_P52911	6.61E-07	-1.1270946	ADI1	acireductone dioxygenase 1
A_33_P3269631	6.63E-07	2.72752701	NAALADL2	N-acetylated alpha-linked acidic dipeptidase-like 2
A_23_P114232	6.63E-07	-0.47976794	PRDX4	peroxiredoxin 4
A_24_P109069	6.74E-07	2.67322219	SYT15	synaptotagmin XV
A_32_P44534	6.74E-07	0.59160234	TMPRSS12	transmembrane (C-terminal) protease, serine 12
A_24_P690924	6.75E-07	0.71796261	SEC23B	Sec23 homolog B (S. cerevisiae)
A_33_P3256760	6.75E-07	-0.60602016	LOC404266	uncharacterized LOC404266
A_32_P139229	6.75E-07	0.85157812	ZNF543	zinc finger protein 543
A_23_P122216	6.78E-07	-1.42976635	LOX	lysyl oxidase
A_23_P344281	6.87E-07	0.62237179	ZIK1	zinc finger protein interacting with K protein 1 homolog (mouse)
A_23_P213319	6.90E-07	1.23852357	ADAMTS6	ADAM metalloproteinase with thrombospondin type 1 motif, 6
A_23_P204269	6.90E-07	0.91002605	USP15	ubiquitin specific peptidase 15
A_23_P85716	6.90E-07	-0.80264356	FCGR2A	Fc fragment of IgG, low affinity IIa, receptor (CD32)
A_33_P3243897	6.91E-07	-0.60665084	RPAP2	RNA polymerase II associated protein 2
A_23_P112950	6.94E-07	1.06563315	ATF7IP	activating transcription factor 7 interacting protein
A_24_P259276	6.94E-07	-1.19330821	ZDHHC24	zinc finger, DHHC-type containing 24
A_24_P397107	7.00E-07	0.85475009	CDC25A	cell division cycle 25 homolog A (S. pombe)
A_32_P14721	7.00E-07	0.91939704	DNAH12	dynein, axonemal, heavy chain 12
A_23_P55376	7.04E-07	2.51027367	KIAA1267	KIAA1267
A_23_P502747	7.05E-07	1.61540752	RASAL2	RAS protein activator like 2

A_23_P150316	7.13E-07	0.53994366	MMP12	matrix metalloproteinase 12 (macrophage elastase)
A_23_P75220	7.13E-07	0.66472759	SLC25A28	solute carrier family 25, member 28
A_24_P33895	7.13E-07	1.70836018	ATF3	activating transcription factor 3
A_24_P173823	7.13E-07	-1.46943988	PBX1	pre-B-cell leukemia homeobox 1
A_24_P876522	7.15E-07	-1.09803924	GPX8	glutathione peroxidase 8 (putative)
A_33_P3275702	7.16E-07	-1.82908431	FMO2	flavin containing monooxygenase 2 (non-functional)
A_23_P397248	7.16E-07	-0.90652804	CLCA2	chloride channel accessory 2
A_23_P32006	7.20E-07	4.46111997	OR13D1	olfactory receptor, family 13, subfamily D, member 1
A_33_P3228558	7.20E-07	2.90142836	ARHGAP27	Rho GTPase activating protein 27
A_23_P116898	7.20E-07	-2.04565502	A2M	alpha-2-macroglobulin
A_23_P78410	7.22E-07	1.01486853	C18orf55	chromosome 18 open reading frame 55
A_23_P51508	7.22E-07	0.63073885	DUSP12	dual specificity phosphatase 12
A_33_P3277110	7.24E-07	-1.08382283	SLC5A3	solute carrier family 5 (sodium/myo-inositol cotransporter), member 3
A_33_P3273822	7.29E-07	0.63802839	FBXO11	F-box protein 11
A_23_P252764	7.29E-07	-0.81514564	SMARCA2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2
A_33_P3293381	7.48E-07	1.31244132	RASSF4	Ras association (RalGDS/AF-6) domain family member 4
A_23_P388433	7.49E-07	-1.0371137	C4orf3	chromosome 4 open reading frame 3
A_24_P407235	7.52E-07	1.95203522	CRY1	cryptochrome 1 (photolyase-like)
A_23_P130182	7.58E-07	1.72932805	AURKB	aurora kinase B
A_24_P7157	7.64E-07	0.78120154	RIMKLB	ribosomal modification protein rimK-like family member B
A_23_P134204	7.70E-07	1.27154533	FAM71F1	family with sequence similarity 71, member F1
A_24_P363087	7.72E-07	-0.76033017	C5orf45	chromosome 5 open reading frame 45
A_33_P3319502	7.77E-07	-1.23238041		
A_33_P3361257	7.78E-07	1.57297768	NOP16	NOP16 nucleolar protein homolog (yeast)
A_23_P131846	7.79E-07	1.39321783	SNAI1	snail homolog 1 (Drosophila)
A_33_P3382177	7.80E-07	-1.24054895	TIMP2	TIMP metalloproteinase inhibitor 2
A_33_P3354267	7.83E-07	1.61298864	AKIRIN1	akirin 1
A_33_P3878964	7.83E-07	1.12442836	NAA25	N(alpha)-acetyltransferase 25, NatB auxiliary subunit
A_23_P84565	7.84E-07	0.65193974	POLR3D	polymerase (RNA) III (DNA directed) polypeptide D, 44kDa
A_24_P203056	7.89E-07	1.08651984	BCL7A	B-cell CLL/lymphoma 7A
A_23_P20578	7.99E-07	0.4245737	FAM166B	family with sequence similarity 166, member B
A_23_P139143	8.02E-07	2.48324788	STX3	syntaxin 3
A_23_P41327	8.02E-07	1.02071192	LYAR	Ly1 antibody reactive homolog (mouse)
A_33_P3334313	8.02E-07	1.03879369	ACTR3B	ARP3 actin-related protein 3 homolog B (yeast)
A_24_P405002	8.02E-07	1.31845776	PDIK1L	PDLIM1 interacting kinase 1 like
A_33_P3319856	8.02E-07	1.88926276	SH2D4B	SH2 domain containing 4B
A_32_P827528	8.02E-07	-0.5385077	S1PR2	sphingosine-1-phosphate receptor 2

A_33_P3298128	8.03E-07	-0.83715637	ITPR2	inositol 1,4,5-trisphosphate receptor, type 2
A_23_P47839	8.06E-07	0.52976884	DDX55	DEAD (Asp-Glu-Ala-Asp) box polypeptide 55
A_33_P3318696	8.09E-07	-0.74755944	CCBL2	cysteine conjugate-beta lyase 2
A_33_P3238573	8.09E-07	1.5156632	DENND4B	DENN/MADD domain containing 4B
A_24_P303145	8.13E-07	-0.45993209	ANKH	ankylosis, progressive homolog (mouse)
A_33_P3715177	8.13E-07	-0.95094107	MEGF8	multiple EGF-like-domains 8
A_23_P432591	8.13E-07	0.54141866	CCDC125	coiled-coil domain containing 125
A_23_P39656	8.13E-07	1.25291726	RNF25	ring finger protein 25
A_23_P129569	8.17E-07	0.4780882	PALB2	partner and localizer of BRCA2
A_23_P348227	8.25E-07	-0.54824691	ZNF135	zinc finger protein 135
A_24_P709377	8.32E-07	0.35162113	LOC654433	uncharacterized LOC654433
A_23_P109171	8.45E-07	-0.53565848	BFSP1	beaded filament structural protein 1, filensin
A_33_P3364293	8.46E-07	1.74303604	LOC389834	ankyrin repeat domain 57 pseudogene
A_23_P373799	8.48E-07	1.22194463	CWC22	CWC22 spliceosome-associated protein homolog (<i>S. cerevisiae</i>)
A_24_P179504	8.49E-07	1.43276826	WDR66	WD repeat domain 66
A_33_P3379456	8.55E-07	-0.74431421	SH3YL1	SH3 domain containing, Ysc84-like 1 (<i>S. cerevisiae</i>)
A_24_P332926	8.55E-07	0.99115636	SUGP2	SURP and G patch domain containing 2
A_23_P90679	8.55E-07	-0.66112556	STRADB	STE20-related kinase adaptor beta
A_33_P3395971	8.64E-07	1.20416926	CTU1	cytosolic thiouridylase subunit 1 homolog (<i>S. pombe</i>)
A_23_P127079	8.71E-07	2.17457027	PPRC1	peroxisome proliferator-activated receptor gamma, coactivator-related 1
A_33_P3301559	8.78E-07	-0.70136113	CLUAP1	clusterin associated protein 1
A_23_P2258	8.86E-07	0.49669695	CCDC62	coiled-coil domain containing 62
A_23_P2922	8.98E-07	1.29634316	MBIP	MAP3K12 binding inhibitory protein 1
A_23_P152548	8.98E-07	-1.32423575	SCPEP1	serine carboxypeptidase 1
A_33_P3401428	9.01E-07	1.028391	TMEM38B	transmembrane protein 38B
A_23_P134714	9.04E-07	-1.66356999	HRSP12	heat-responsive protein 12
A_33_P3243524	9.06E-07	0.56133889	RAPGEF6	Rap guanine nucleotide exchange factor (GEF) 6
A_23_P34877	9.07E-07	1.32849508	RBM15	RNA binding motif protein 15
A_33_P3343828	9.09E-07	2.184357	FLJ42627	uncharacterized LOC645644
A_23_P431933	9.13E-07	1.22301266	CAMKK1	calcium/calmodulin-dependent protein kinase kinase 1, alpha
A_33_P3318796	9.14E-07	0.7931834	FSTL3	follistatin-like 3 (secreted glycoprotein)
A_24_P85258	9.17E-07	1.25474054	KIAA1751	KIAA1751
A_23_P53866	9.18E-07	-0.62984052	COG6	component of oligomeric golgi complex 6
A_23_P363778	9.19E-07	-1.48555832	FRZB	frizzled-related protein
A_24_P204675	9.20E-07	1.05784443	LOC100132247	nuclear pore complex interacting protein related gene
A_23_P349343	9.21E-07	1.1873007	ALS2CR12	amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 12
A_33_P3283196	9.26E-07	0.94072913	SCAF11	SR-related CTD-associated factor 11

A_23_P362228	9.27E-07	-0.66165736	C1orf213	chromosome 1 open reading frame 213
A_23_P404162	9.28E-07	2.72096335	HDAC9	histone deacetylase 9
A_33_P3241269	9.29E-07	-0.75073356	CES1	carboxylesterase 1
A_23_P1343	9.29E-07	1.60804037	STAM	signal transducing adaptor molecule (SH3 domain and ITAM motif) 1
A_24_P240065	9.29E-07	-0.90012333	CHMP3	charged multivesicular body protein 3
A_23_P27035	9.29E-07	-0.92474435	TMEM98	transmembrane protein 98
A_23_P132956	9.29E-07	-1.30395622	UCHL1	ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesterase)
A_23_P34233	9.29E-07	-1.53226922	QPRT	quinolinate phosphoribosyltransferase
A_23_P155596	9.37E-07	-2.01827866	FMO3	flavin containing monooxygenase 3
A_23_P153084	9.55E-07	-0.39839166	RALBP1	ralA binding protein 1
A_23_P114689	9.56E-07	-0.80735276	ASAP3	ArfGAP with SH3 domain, ankyrin repeat and PH domain 3
A_23_P161218	9.68E-07	0.9864999	ANKRD1	ankyrin repeat domain 1 (cardiac muscle)
A_23_P17275	9.71E-07	0.36691002	DNAJC27	DnaJ (Hsp40) homolog, subfamily C, member 27
A_23_P76245	9.76E-07	0.58912654	SCN8A	sodium channel, voltage gated, type VIII, alpha subunit
A_23_P308632	9.76E-07	2.31339498	C19orf26	chromosome 19 open reading frame 26
A_33_P3282693	9.76E-07	3.0048112	OR3A4P	olfactory receptor, family 3, subfamily A, member 4 pseudogene
A_32_P113812	9.76E-07	0.47898566		
A_23_P17955	9.76E-07	-0.63112184	FBXL2	F-box and leucine-rich repeat protein 2
A_23_P419107	9.76E-07	0.60447346	TCP11L2	t-complex 11 (mouse)-like 2
A_24_P324520	9.76E-07	0.28132786	MTCP1	mature T-cell proliferation 1
A_24_P133162	9.76E-07	1.33854877	C1orf201	chromosome 1 open reading frame 201
A_23_P161424	9.81E-07	-1.01206981	PLXDC2	plexin domain containing 2
A_33_P3236403	9.81E-07	1.00787416	CLASRP	CLK4-associating serine/arginine rich protein
A_23_P363275	9.81E-07	0.76634247	WDR66	WD repeat domain 66
A_33_P3271276	9.81E-07	1.24896988	PSG5	pregnancy specific beta-1-glycoprotein 5
A_24_P229726	9.81E-07	-0.65048176		
A_33_P3297245	9.81E-07	1.25035514	RRAS2	related RAS viral (r-ras) oncogene homolog 2
A_23_P312999	9.81E-07	0.83873625	C4orf22	chromosome 4 open reading frame 22
A_23_P64560	9.82E-07	-0.88925127	PGAP2	post-GPI attachment to proteins 2
A_23_P63777	9.85E-07	0.37280577	OIT3	oncoprotein induced transcript 3
A_23_P209987	9.85E-07	0.72330296	POLR1B	polymerase (RNA) I polypeptide B, 128kDa
A_24_P124662	9.86E-07	0.97176751	MAPKAPK5	mitogen-activated protein kinase-activated protein kinase 5
A_33_P3234804	9.87E-07	-0.69066652	CBR4	carbonyl reductase 4
A_33_P3816688	9.89E-07	0.42964796	PPARGC1B	peroxisome proliferator-activated receptor gamma, coactivator 1 beta
A_23_P429092	9.92E-07	0.61274349	HBS1L	HBS1-like (<i>S. cerevisiae</i>)
A_24_P89843	1.00E-06	-0.76261603	CYHR1	cysteine/histidine-rich 1
A_24_P379104	1.00E-06	0.8610523	PIM2	pim-2 oncogene

A_23_P110811	1.00E-06	-0.88315737	COX7C	cytochrome c oxidase subunit VIIc
A_33_P3358412	1.00E-06	0.62253678	LOC100128198	uncharacterized LOC100128198
A_23_P205531	1.01E-06	-1.32470086	RNASE4	ribonuclease, RNase A family, 4
A_23_P18641	1.01E-06	0.84033098	SNX25	sorting nexin 25
A_23_P110412	1.01E-06	0.57598781	TMEM150C	transmembrane protein 150C
A_23_P428129	1.01E-06	-1.56239015	CDKN1C	cyclin-dependent kinase inhibitor 1C (p57, Kip2)
A_23_P157795	1.02E-06	1.13078888	CTNNAL1	catenin (cadherin-associated protein), alpha-like 1
A_32_P54553	1.02E-06	0.83229262	USP41	ubiquitin specific peptidase 41
A_23_P51317	1.02E-06	1.14141443	CCDC76	coiled-coil domain containing 76
A_24_P154037	1.02E-06	1.55194386	IRS2	insulin receptor substrate 2
A_33_P3263533	1.02E-06	0.77556808	SCN1A	sodium channel, voltage-gated, type I, alpha subunit
A_33_P3211260	1.03E-06	0.69753735	DBNL	drebrin-like
A_23_P145197	1.03E-06	0.92153546	BYSL	bystin-like
A_24_P237586	1.03E-06	0.74148484	ANKRD37	ankyrin repeat domain 37
A_24_P78556	1.03E-06	1.0913954	RASSF8	Ras association (RalGDS/AF-6) domain family (N-terminal) member 8
A_33_P3308686	1.03E-06	-0.63094763	CC2D2A	coiled-coil and C2 domain containing 2A
A_24_P44931	1.03E-06	-0.8396673	MPND	MPN domain containing
A_23_P5392	1.05E-06	-1.43445897	TP53I3	tumor protein p53 inducible protein 3
A_24_P288424	1.07E-06	0.68701562	SLMO2	slowmo homolog 2 (Drosophila)
A_33_P3342628	1.07E-06	1.97952667	HES4	hairy and enhancer of split 4 (Drosophila)
A_33_P3315134	1.07E-06	0.97713797	DIRC3	disrupted in renal carcinoma 3
A_23_P124044	1.07E-06	-0.51992228	DEAF1	deformed epidermal autoregulatory factor 1 (Drosophila)
A_23_P212617	1.08E-06	-0.96729638	TFRC	transferrin receptor (p90, CD71)
A_23_P423695	1.08E-06	-1.69487295	MXD4	MAX dimerization protein 4
A_23_P51906	1.08E-06	0.91587918	PFDN2	prefoldin subunit 2
A_33_P3350420	1.09E-06	2.03496002	SATL1	spermidine/spermine N1-acetyl transferase-like 1
A_33_P3408320	1.09E-06	0.47762369	CERS1	ceramide synthase 1
A_23_P88119	1.09E-06	1.87907727	HSPH1	heat shock 105kDa/110kDa protein 1
A_23_P315345	1.10E-06	-0.37399948	PIN4	protein (peptidylprolyl cis/trans isomerase) NIMA-interacting, 4 (parvulin)
A_33_P3346841	1.10E-06	0.87046277	YTHDF2	YTH domain family, member 2
A_23_P215931	1.10E-06	-0.61463091	LEPROTL1	leptin receptor overlapping transcript-like 1
A_24_P268786	1.10E-06	1.226646	MYNN	myoneurin
A_33_P3278911	1.11E-06	0.89102449	PHF20L1	PHD finger protein 20-like 1
A_33_P3250278	1.11E-06	0.83893856	AGXT	alanine-glyoxylate aminotransferase
A_32_P96692	1.12E-06	-0.64528282	POLH	polymerase (DNA directed), eta
A_23_P92025	1.13E-06	0.89944284	CIDEC	cell death-inducing DFFA-like effector c
A_24_P126741	1.14E-06	-1.04120235		

A_23_P137470	1.14E-06	-1.34280682	SIPA1L2	signal-induced proliferation-associated 1 like 2
A_23_P15516	1.14E-06	-0.75664605	TMEM101	transmembrane protein 101
A_24_P854492	1.14E-06	-0.80966218	MIAT	myocardial infarction associated transcript (non-protein coding)
A_23_P431569	1.14E-06	-0.46367912		
A_24_P206317	1.15E-06	1.27893627	HDAC9	histone deacetylase 9
A_33_P3357247	1.15E-06	1.51129002	USP36	ubiquitin specific peptidase 36
A_23_P375147	1.15E-06	0.96851996	RC3H2	ring finger and CCCH-type domains 2
A_23_P61398	1.16E-06	1.7704003	PIM3	pim-3 oncogene
A_23_P146004	1.16E-06	0.97318172	CBLL1	Cas-Br-M (murine) ecotropic retroviral transforming sequence-like 1
A_23_P66813	1.17E-06	1.21921683	SIRT7	sirtuin 7
A_24_P134319	1.18E-06	0.73668827	ADNP	activity-dependent neuroprotector homeobox
A_23_P252145	1.18E-06	1.51063776	C1GALT1	core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase, 1
A_32_P210252	1.19E-06	-0.59158132	RPL22	ribosomal protein L22
A_33_P3695899	1.20E-06	0.9099647	FLJ31104	uncharacterized LOC441072
A_33_P3406245	1.20E-06	1.17175782	TAF1A	TATA box binding protein (TBP)-associated factor, RNA polymerase I, A, 48kDa
A_32_P178945	1.20E-06	1.52991901	YOD1	YOD1 OTU deubiquinating enzyme 1 homolog (<i>S. cerevisiae</i>)
A_24_P321634	1.21E-06	0.60693078	ZMYM5	zinc finger, MYM-type 5
A_23_P92954	1.21E-06	-1.353817	HSD17B4	hydroxysteroid (17-beta) dehydrogenase 4
A_23_P127584	1.21E-06	-1.53690708	NNMT	nicotinamide N-methyltransferase
A_23_P103201	1.22E-06	1.43485405	PNRC2	proline-rich nuclear receptor coactivator 2
A_23_P103968	1.23E-06	-0.82505286	AKR7A3	aldo-keto reductase family 7, member A3 (aflatoxin aldehyde reductase)
A_32_P30831	1.23E-06	-0.59823236	LOC100505648	uncharacterized LOC100505648
A_33_P3344599	1.23E-06	0.51182133	UBE4B	ubiquitination factor E4B
A_23_P305616	1.23E-06	0.67685707	LOC652276	potassium channel tetramerisation domain containing 5 pseudogene
A_24_P303480	1.23E-06	1.02793085	RAB32	RAB32, member RAS oncogene family
A_33_P3357445	1.23E-06	1.72815384	TDG	thymine-DNA glycosylase
A_23_P211126	1.23E-06	1.42895054	DYRK1A	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A
A_33_P3335147	1.23E-06	0.86268215	MURC	muscle-related coiled-coil protein
A_24_P342312	1.23E-06	-0.79210289	ODZ4	odz, odd Oz/ten-m homolog 4 (<i>Drosophila</i>)
A_33_P3215487	1.23E-06	0.92329005	KIAA0415	KIAA0415
A_23_P117037	1.23E-06	-0.85007777	LETMD1	LETM1 domain containing 1
A_23_P250164	1.23E-06	0.63961687	HGD	homogentisate 1,2-dioxygenase
A_33_P3230548	1.23E-06	0.9193077	KIF14	kinesin family member 14
A_23_P256148	1.24E-06	1.08690493	AKIRIN1	akirin 1
A_33_P3244872	1.25E-06	0.73934092	CEP350	centrosomal protein 350kDa
A_33_P3235521	1.25E-06	0.9150632		
A_24_P54485	1.25E-06	-0.70362339	CCDC115	coiled-coil domain containing 115

A_23_P207319	1.25E-06	0.57819174	MAP3K14	mitogen-activated protein kinase kinase kinase 14
A_23_P429491	1.25E-06	0.84692082	C11orf82	chromosome 11 open reading frame 82
A_23_P90369	1.26E-06	0.99865979	C19orf6	chromosome 19 open reading frame 6
A_23_P85952	1.26E-06	-0.68197208	DENND2D	DENN/MADD domain containing 2D
A_23_P31721	1.26E-06	0.81585497	E2F5	E2F transcription factor 5, p130-binding
A_23_P117506	1.26E-06	-0.86998846	DHRS7	dehydrogenase/reductase (SDR family) member 7
A_33_P3216890	1.27E-06	1.17289079	PAG1	phosphoprotein associated with glycosphingolipid microdomains 1
A_23_P99604	1.27E-06	0.5947522	G2E3	G2/M-phase specific E3 ubiquitin protein ligase
A_23_P63870	1.28E-06	0.59347629	SAMD8	sterile alpha motif domain containing 8
A_23_P109636	1.29E-06	-1.06494089	LRIG1	leucine-rich repeats and immunoglobulin-like domains 1
A_23_P426021	1.29E-06	-1.04129079	SEL1L3	sel-1 suppressor of lin-12-like 3 (<i>C. elegans</i>)
A_23_P388190	1.29E-06	1.4706223	DIDO1	death inducer-obliterator 1
A_33_P3344482	1.29E-06	1.6618432	FERMT2	fermitin family member 2
A_33_P3316800	1.29E-06	1.81662095	AHR	aryl hydrocarbon receptor
A_23_P152284	1.29E-06	-1.32631526	SNRNP25	small nuclear ribonucleoprotein 25kDa (U11/U12)
A_23_P256735	1.29E-06	-1.19340122	PGCP	plasma glutamate carboxypeptidase
A_23_P122531	1.29E-06	1.00786913	C6orf48	chromosome 6 open reading frame 48
A_23_P12526	1.30E-06	1.46505738	TP53BP2	tumor protein p53 binding protein, 2
A_33_P3353030	1.31E-06	1.68078371	UCN	urocortin
A_23_P133739	1.31E-06	0.69664723	HUS1B	HUS1 checkpoint homolog b (<i>S. pombe</i>)
A_23_P311144	1.31E-06	0.36423852	CCDC138	coiled-coil domain containing 138
A_23_P116797	1.32E-06	-0.57039302	C12orf10	chromosome 12 open reading frame 10
A_23_P394166	1.32E-06	0.99369368	CNOT7	CCR4-NOT transcription complex, subunit 7
A_24_P345451	1.32E-06	-0.99486839	CYBRD1	cytochrome b reductase 1
A_24_P294842	1.32E-06	-0.4606582	ATXN1	ataxin 1
A_24_P54390	1.32E-06	0.86409586	RASGRP3	RAS guanyl releasing protein 3 (calcium and DAG-regulated)
A_23_P206077	1.33E-06	1.92522077	AEN	apoptosis enhancing nuclease
A_23_P23074	1.33E-06	1.82300531	IFI44	interferon-induced protein 44
A_24_P195037	1.33E-06	1.02309251	C1orf52	chromosome 1 open reading frame 52
A_33_P3263157	1.34E-06	-1.45340287		
A_23_P12062	1.34E-06	0.70393918	TRIT1	tRNA isopentenyltransferase 1
A_23_P200310	1.34E-06	0.92501229	DEPDC1	DEP domain containing 1
A_23_P14184	1.35E-06	0.98388118	THSD1	thrombospondin, type I, domain containing 1
A_33_P3441021	1.35E-06	0.28477214	TMEM233	transmembrane protein 233
A_32_P409222	1.35E-06	2.65944522	ZNF628	zinc finger protein 628
A_23_P404965	1.35E-06	-0.57640725	GNL1	guanine nucleotide binding protein-like 1
A_33_P3372979	1.35E-06	-0.89912881	LINC00294	long intergenic non-protein coding RNA 294

A_24_P264664	1.35E-06	1.72016972	CHD2	chromodomain helicase DNA binding protein 2
A_24_P303454	1.35E-06	0.97201876	TIAM2	T-cell lymphoma invasion and metastasis 2
A_23_P217379	1.36E-06	-0.44910183	COL4A6	collagen, type IV, alpha 6
A_24_P694820	1.38E-06	-0.56846466	LOC100652917	uncharacterized LOC100652917
A_23_P218827	1.39E-06	0.94090293	POLQ	polymerase (DNA directed), theta
A_23_P111811	1.40E-06	0.91733574	ING3	inhibitor of growth family, member 3
A_23_P353744	1.40E-06	0.67223989	LARP1B	La ribonucleoprotein domain family, member 1B
A_23_P38365	1.40E-06	0.71244092	TLK2	tousled-like kinase 2
A_23_P420269	1.41E-06	0.90863337	INTS2	integrator complex subunit 2
A_33_P3327702	1.41E-06	0.77349542	SYMPK	symplekin
A_23_P212119	1.41E-06	-0.83289738	GALNTL2	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase-like 2
A_23_P74068	1.43E-06	0.26754399	MSH4	mutS homolog 4 (E. coli)
A_23_P200710	1.43E-06	0.73961875	PIK3C2B	phosphoinositide-3-kinase, class 2, beta polypeptide
A_24_P649624	1.43E-06	0.96448745	KIF1B	kinesin family member 1B
A_24_P45005	1.43E-06	-0.6234948	NPEPL1	aminopeptidase-like 1
A_24_P40626	1.43E-06	-1.39412179	GREM2	gremlin 2
A_23_P206792	1.44E-06	1.31268847	ZNF764	zinc finger protein 764
A_32_P506600	1.45E-06	0.53988305	RAN	RAN, member RAS oncogene family
A_33_P3329187	1.45E-06	1.1003488	DNMT1	DNA (cytosine-5-)-methyltransferase 1
A_33_P3229335	1.45E-06	1.13428194	HIST3H2BB	histone cluster 3, H2bb
A_23_P338890	1.45E-06	1.16677572	PTPN1	protein tyrosine phosphatase, non-receptor type 1
A_23_P357185	1.45E-06	1.42513111	CHDH	choline dehydrogenase
A_23_P60259	1.45E-06	1.21675212	TMEM38B	transmembrane protein 38B
A_23_P54144	1.45E-06	-0.84595926	BMP4	bone morphogenetic protein 4
A_24_P849801	1.45E-06	-1.10658739	RPL22	ribosomal protein L22
A_23_P171237	1.46E-06	0.95320681	ACRC	acidic repeat containing
A_23_P252335	1.46E-06	1.15111822	MIS18A	MIS18 kinetochore protein homolog A (S. pombe)
A_24_P32766	1.46E-06	-1.38685046		
A_23_P137665	1.47E-06	-1.07090527	CHI3L1	chitinase 3-like 1 (cartilage glycoprotein-39)
A_24_P257416	1.47E-06	1.25639535	CXCL2	chemokine (C-X-C motif) ligand 2
A_23_P37914	1.47E-06	0.65465277	SLC5A11	solute carrier family 5 (sodium/glucose cotransporter), member 11
A_33_P3342633	1.47E-06	0.63508332	DHRS12	dehydrogenase/reductase (SDR family) member 12
A_33_P3224680	1.47E-06	0.60786373	CCDC76	coiled-coil domain containing 76
A_23_P91930	1.47E-06	1.45526616	QTRTD1	queueine tRNA-ribosyltransferase domain containing 1
A_23_P254741	1.47E-06	-2.05855964	SOD3	superoxide dismutase 3, extracellular
A_24_P926400	1.47E-06	-0.50683572	GGA1	golgi-associated, gamma adaptin ear containing, ARF binding protein 1
A_33_P3546033	1.48E-06	-0.56854442		

A_33_P3235690	1.48E-06	0.41321173	THOC2	THO complex 2
A_33_P3229370	1.48E-06	0.97733893	ID4	inhibitor of DNA binding 4, dominant negative helix-loop-helix protein
A_24_P113824	1.49E-06	-0.68230406	TMEM50A	transmembrane protein 50A
A_23_P426305	1.50E-06	1.70088003	AOC3	amine oxidase, copper containing 3 (vascular adhesion protein 1)
A_24_P402690	1.50E-06	-1.08059401	ITM2C	integral membrane protein 2C
A_32_P133072	1.50E-06	-0.72893202	SPON1	spondin 1, extracellular matrix protein
A_33_P3235177	1.51E-06	0.31881852	TET3	tet methylcytosine dioxygenase 3
A_23_P210554	1.52E-06	0.9366041	SPATA2	spermatogenesis associated 2
A_33_P3285156	1.52E-06	-0.69323556	FLJ90757	uncharacterized LOC440465
A_33_P3300757	1.53E-06	0.49925605	DOPEY1	dopey family member 1
A_23_P15542	1.54E-06	0.76041085	HSD17B1	hydroxysteroid (17-beta) dehydrogenase 1
A_23_P108743	1.54E-06	0.36132188	XIRP2	xin actin-binding repeat containing 2
A_23_P128930	1.54E-06	0.6528901	PSMC6	proteasome (prosome, macropain) 26S subunit, ATPase, 6
A_33_P3268464	1.55E-06	0.75768414	MPDU1	mannose-P-dolichol utilization defect 1
A_23_P167308	1.55E-06	1.42695751	RNF4	ring finger protein 4
A_33_P3276713	1.55E-06	-0.96413639	HGF	hepatocyte growth factor (hepapoietin A; scatter factor)
A_23_P56347	1.55E-06	1.65077081	PSG3	pregnancy specific beta-1-glycoprotein 3
A_33_P3297888	1.57E-06	0.54612217	CCDC125	coiled-coil domain containing 125
A_23_P115919	1.58E-06	-1.0087357	PHYH	phytanoyl-CoA 2-hydroxylase
A_23_P339119	1.58E-06	-0.86357255	ACSS3	acyl-CoA synthetase short-chain family member 3
A_33_P3781228	1.58E-06	0.78557707	FLJ26332	uncharacterized LOC440766
A_33_P3606465	1.58E-06	-0.50051246	CBX3P2	chromobox homolog 3 pseudogene 2
A_24_P21447	1.60E-06	0.52385457	SURF6	surfeit 6
A_33_P3317850	1.60E-06	1.40260123	RIOK3	RIO kinase 3 (yeast)
A_33_P3227920	1.60E-06	-0.99113599	SLC16A4	solute carrier family 16, member 4 (monocarboxylic acid transporter 5)
A_23_P119535	1.60E-06	1.56634428	EFNA2	ephrin-A2
A_23_P48676	1.60E-06	-1.13099636	PYGL	phosphorylase, glycogen, liver
A_23_P127948	1.60E-06	-1.32497924	ADM	adrenomedullin
A_32_P16315	1.63E-06	1.14797266	TUBB8	tubulin, beta 8 class VIII
A_33_P3215392	1.64E-06	1.99942776	EXOC3L2	exocyst complex component 3-like 2
A_33_P3306452	1.65E-06	-0.28244272		
A_23_P18196	1.65E-06	0.7049277	RFC4	replication factor C (activator 1) 4, 37kDa
A_23_P90130	1.66E-06	1.8983401	NAPSA	napsin A aspartic peptidase
A_23_P301877	1.66E-06	0.47816867	MED27	mediator complex subunit 27
A_23_P156970	1.68E-06	0.97554821	MEST	mesoderm specific transcript homolog (mouse)
A_23_P57417	1.68E-06	-1.189746	MMP11	matrix metalloproteinase 11 (stromelysin 3)
A_23_P335039	1.69E-06	0.88181933	ZNF721	zinc finger protein 721

A_33_P3313417	1.69E-06	0.78663739	ARHGAP33	Rho GTPase activating protein 33
A_23_P133691	1.69E-06	0.87691743	RRAGD	Ras-related GTP binding D
A_23_P32217	1.70E-06	0.79548376	TOPORS	topoisomerase I binding, arginine/serine-rich, E3 ubiquitin protein ligase
A_23_P50217	1.71E-06	0.83091677	ZNF671	zinc finger protein 671
A_32_P183218	1.72E-06	0.9695901	ZNF367	zinc finger protein 367
A_33_P3883912	1.74E-06	0.74869912	ZCCHC10	zinc finger, CCHC domain containing 10
A_32_P157208	1.74E-06	0.82334034	LOC572558	uncharacterized LOC572558
A_33_P3361636	1.74E-06	-1.39468409	MGP	matrix Gla protein
A_23_P167401	1.74E-06	-0.71462712	PCDHB11	protocadherin beta 11
A_33_P3330099	1.74E-06	-0.97084566	ARSD	arylsulfatase D
A_23_P160869	1.75E-06	1.24160051	LRIG2	leucine-rich repeats and immunoglobulin-like domains 2
A_33_P3330453	1.75E-06	1.37985029	PBRM1	polybromo 1
A_33_P3312271	1.76E-06	-0.51234974	FLJ41170	uncharacterized LOC440200
A_33_P3299386	1.77E-06	0.32380613	ZNF550	zinc finger protein 550
A_23_P142154	1.78E-06	0.88488539	GRWD1	glutamate-rich WD repeat containing 1
A_23_P97465	1.78E-06	1.9911867	PRAMEF2	PRAME family member 2
A_23_P215790	1.79E-06	0.63581891	EGFR	epidermal growth factor receptor
A_23_P14636	1.79E-06	-0.75370045	MFAP1	microfibrillar-associated protein 1
A_23_P114947	1.80E-06	-1.11937038	RGS2	regulator of G-protein signaling 2, 24kDa
A_23_P125829	1.82E-06	-0.82637592	PGK1	phosphoglycerate kinase 1
A_32_P76060	1.83E-06	0.78778191	CTDSPL2	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase like 2
A_23_P379026	1.83E-06	1.66634754	GTPBP2	GTP binding protein 2
A_24_P243776	1.83E-06	-1.15636736	ZNF277	zinc finger protein 277
A_23_P150549	1.84E-06	2.12072736	PGA3	pepsinogen 3, group I (pepsinogen A)
A_23_P209449	1.84E-06	-1.34222798	FZD7	frizzled family receptor 7
A_24_P91701	1.84E-06	-0.91058567	C22orf43	chromosome 22 open reading frame 43
A_33_P3373165	1.84E-06	0.64486758	DUX4L4	double homeobox 4 like 4
A_33_P3342957	1.84E-06	1.28980857	STK17B	serine/threonine kinase 17b
A_23_P252052	1.85E-06	3.08163982	FILIP1L	filamin A interacting protein 1-like
A_24_P769672	1.86E-06	0.67775734	C12orf73	chromosome 12 open reading frame 73
A_23_P208788	1.86E-06	0.43086913	C19orf33	chromosome 19 open reading frame 33
A_23_P106463	1.86E-06	-1.2533794	OAZ2	ornithine decarboxylase antizyme 2
A_33_P3316683	1.87E-06	1.21608123	SNX21	sorting nexin family member 21
A_33_P3283001	1.87E-06	0.67224663	LOC728093	putative POM121-like protein 1-like
A_24_P583040	1.88E-06	0.75146666	C17orf67	chromosome 17 open reading frame 67
A_23_P25868	1.89E-06	1.04995416	NAA30	N(alpha)-acetyltransferase 30, NatC catalytic subunit
A_32_P12610	1.89E-06	1.24626069	E2F6	E2F transcription factor 6

A_32_P139894	1.89E-06	2.06406002	ABL2	v-abl Abelson murine leukemia viral oncogene homolog 2
A_23_P162982	1.90E-06	-1.07353486	DHRS4	dehydrogenase/reductase (SDR family) member 4
A_33_P3372069	1.90E-06	0.45401683	COX8C	cytochrome c oxidase subunit VIIIc
A_24_P381555	1.90E-06	-0.9312486	SAP18	Sin3A-associated protein, 18kDa
A_23_P342131	1.90E-06	-1.16984356	CYBASC3	cytochrome b, ascorbate dependent 3
A_23_P11103	1.91E-06	0.39970576	BMP15	bone morphogenetic protein 15
A_23_P408913	1.91E-06	-0.37055956	TTC30B	tetratricopeptide repeat domain 30B
A_23_P81212	1.92E-06	1.2124851	MRPS18C	mitochondrial ribosomal protein S18C
A_24_P336983	1.92E-06	0.69056489	CAPN13	calpain 13
A_23_P209619	1.92E-06	0.54483735	ATL2	atlastin GTPase 2
A_24_P396702	1.92E-06	-0.84994798	CD302	CD302 molecule
A_24_P56252	1.93E-06	1.00897651	PPP1R12A	protein phosphatase 1, regulatory subunit 12A
A_23_P39766	1.93E-06	-0.68325556	GLS	glutaminase
A_33_P3354955	1.93E-06	0.87517363	ESF1	ESF1, nucleolar pre-rRNA processing protein, homolog (<i>S. cerevisiae</i>)
A_33_P3346067	1.94E-06	1.99962103	LOC388813	uncharacterized protein ENSP00000383407-like
A_24_P366777	1.96E-06	-0.86681998	NOTCH2NL	notch 2 N-terminal like
A_33_P3391097	1.96E-06	1.46620247	POLM	polymerase (DNA directed), mu
A_33_P3375934	1.98E-06	-0.62351943	NAMPT	nicotinamide phosphoribosyltransferase
A_33_P3383029	1.98E-06	-1.16183269	MXI1	MAX interactor 1
A_33_P3254606	1.98E-06	0.79280436	WDR62	WD repeat domain 62
A_23_P167812	1.98E-06	1.43972159	RBM24	RNA binding motif protein 24
A_23_P11800	1.99E-06	-0.72538216	CAMK2N1	calcium/calmodulin-dependent protein kinase II inhibitor 1
A_33_P3247838	1.99E-06	1.45564326	ZNF844	zinc finger protein 844
A_24_P53519	1.99E-06	1.1331647	CHAF1A	chromatin assembly factor 1, subunit A (p150)
A_23_P77401	1.99E-06	-0.98108541	CPPED1	calcineurin-like phosphoesterase domain containing 1
A_33_P3215739	1.99E-06	1.16531326	LNP1	leukemia NUP98 fusion partner 1
A_23_P58466	1.99E-06	0.96432584	SMN1	survival of motor neuron 1, telomeric
A_24_P144881	2.00E-06	0.60185037	RNF6	ring finger protein (C3H2C3 type) 6
A_23_P124003	2.00E-06	-0.96184651	P2RX2	purinergic receptor P2X, ligand-gated ion channel, 2
A_33_P3336557	2.02E-06	0.98240634		
A_23_P132784	2.02E-06	-1.02022866	FXR1	fragile X mental retardation, autosomal homolog 1
A_32_P83784	2.02E-06	0.58182504	ARAP2	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2
A_23_P141394	2.03E-06	-0.61102505	WIPI1	WD repeat domain, phosphoinositide interacting 1
A_23_P209320	2.06E-06	1.05989615	PER2	period homolog 2 (<i>Drosophila</i>)
A_23_P42397	2.06E-06	-0.66879572	PRSS35	protease, serine, 35
A_23_P96383	2.06E-06	-1.23718383	SRPX	sushi-repeat containing protein, X-linked
A_23_P395566	2.07E-06	0.55484147	FBXO31	F-box protein 31

A_33_P3410194	2.07E-06	0.81219687	H3F3B	H3 histone, family 3B (H3.3B)
A_33_P3268284	2.07E-06	-0.97330927	GDI2	GDP dissociation inhibitor 2
A_23_P26173	2.07E-06	-0.94914828	TMED3	transmembrane emp24 protein transport domain containing 3
A_33_P3257903	2.07E-06	-0.94934031	GSTA4	glutathione S-transferase alpha 4
A_33_P3210975	2.08E-06	-1.3856102		
A_33_P3228366	2.08E-06	0.49332806	XPO5	exportin 5
A_24_P269432	2.08E-06	-0.54119979	BET1	blocked early in transport 1 homolog (<i>S. cerevisiae</i>)
A_23_P71530	2.08E-06	-1.47726614	TNFRSF11B	tumor necrosis factor receptor superfamily, member 11b
A_23_P121082	2.08E-06	-0.83979253	GBE1	glucan (1,4-alpha-), branching enzyme 1
A_33_P3242820	2.08E-06	1.41794558	LOC115110	uncharacterized LOC115110
A_33_P3408983	2.08E-06	1.42921044	APC	adenomatous polyposis coli
A_23_P344481	2.10E-06	0.81903439	STOX1	storkhead box 1
A_32_P54242	2.12E-06	1.94839012	LCORL	ligand dependent nuclear receptor corepressor-like
A_23_P99642	2.12E-06	-0.7059156	SLC7A7	solute carrier family 7 (amino acid transporter light chain, y+L system), member 7
A_33_P3401658	2.14E-06	2.33467689	PSG2	pregnancy specific beta-1-glycoprotein 2
A_23_P415021	2.14E-06	-1.79368623	METTL7A	methyltransferase like 7A
A_33_P3212092	2.14E-06	-1.02445782	PDCD4	programmed cell death 4 (neoplastic transformation inhibitor)
A_23_P111132	2.14E-06	1.31569166	HSPA1A	heat shock 70kDa protein 1A
A_24_P71468	2.15E-06	-0.63054123	QPCT	glutaminy-peptide cyclotransferase
A_23_P98350	2.16E-06	1.12196024	BIRC3	baculoviral IAP repeat containing 3
A_23_P103756	2.17E-06	0.53007657	OVGP1	oviductal glycoprotein 1, 120kDa
A_23_P27404	2.17E-06	1.00277887	ZNF841	zinc finger protein 841
A_23_P13797	2.17E-06	0.98379225	C12orf49	chromosome 12 open reading frame 49
A_23_P27306	2.17E-06	-0.59867696	COLEC12	collectin sub-family member 12
A_33_P3330236	2.18E-06	2.27030379	ABCD1	ATP-binding cassette, sub-family D (ALD), member 1
A_33_P3338928	2.19E-06	-0.51807053	DAB2	disabled homolog 2, mitogen-responsive phosphoprotein (<i>Drosophila</i>)
A_33_P3365815	2.20E-06	0.78160838	LOC729866	hCG1994895
A_23_P165521	2.22E-06	0.98090866	STRN	striatin, calmodulin binding protein
A_24_P223124	2.22E-06	0.84743899	FNDC3B	fibronectin type III domain containing 3B
A_33_P3297390	2.23E-06	0.26921137	C3orf79	chromosome 3 open reading frame 79
A_33_P3807062	2.23E-06	1.64587065	HJURP	Holliday junction recognition protein
A_23_P100883	2.24E-06	1.19007112	SUZ12	suppressor of zeste 12 homolog (<i>Drosophila</i>)
A_33_P3383431	2.24E-06	-1.1139674	DHRS4	dehydrogenase/reductase (SDR family) member 4
A_24_P937317	2.24E-06	0.38905813	IL31	interleukin 31
A_32_P76035	2.24E-06	0.90479459	PNPT1	polyribonucleotide nucleotidyltransferase 1
A_23_P18447	2.27E-06	0.39351358	PPARGC1A	peroxisome proliferator-activated receptor gamma, coactivator 1 alpha
A_23_P211007	2.27E-06	1.10046249	NRIP1	nuclear receptor interacting protein 1

A_23_P6624	2.27E-06	0.64536218	UMPS	uridine monophosphate synthetase
A_33_P3326989	2.28E-06	0.382663	MOK	MOK protein kinase
A_24_P62783	2.29E-06	-1.3838682	FABP3	fatty acid binding protein 3, muscle and heart (mammary-derived growth inhibitor)
A_24_P309415	2.29E-06	-0.5376021	TMEM123	transmembrane protein 123
A_23_P91140	2.29E-06	-0.63905519	PECR	peroxisomal trans-2-enoyl-CoA reductase
A_24_P39211	2.29E-06	0.83520891	ING1	inhibitor of growth family, member 1
A_33_P3335391	2.31E-06	0.53994483	FAM83G	family with sequence similarity 83, member G
A_33_P3387463	2.33E-06	-0.64935044	ATP6V1D	ATPase, H ⁺ transporting, lysosomal 34kDa, V1 subunit D
A_33_P3350758	2.34E-06	2.39430709	RASAL2	RAS protein activator like 2
A_23_P213375	2.34E-06	-0.7873138	PCDHB2	protocadherin beta 2
A_23_P258002	2.34E-06	1.67191933	CDKN2AIP	CDKN2A interacting protein
A_23_P102331	2.34E-06	-1.04229479	SCN7A	sodium channel, voltage-gated, type VII, alpha
A_33_P3372332	2.35E-06	-1.24669249	CYBA	cytochrome b-245, alpha polypeptide
A_23_P108835	2.35E-06	-1.17338833	YPEL5	yippee-like 5 (Drosophila)
A_33_P3421200	2.36E-06	1.02795968	FLJ10661	family with sequence similarity 86, member A pseudogene
A_33_P3215252	2.36E-06	2.39308325		
A_33_P3303325	2.38E-06	-0.86392084		
A_33_P3373745	2.39E-06	0.78539061	BRD4	bromodomain containing 4
A_23_P125815	2.40E-06	0.59085794	RBM10	RNA binding motif protein 10
A_33_P3385266	2.40E-06	-0.52695138	ABCC6	ATP-binding cassette, sub-family C (CFTR/MRP), member 6
A_32_P64475	2.40E-06	0.60503725	C1orf55	chromosome 1 open reading frame 55
A_23_P89755	2.41E-06	1.31420025	RNF138	ring finger protein 138
A_24_P277295	2.41E-06	-0.74909693	RAB43	RAB43, member RAS oncogene family
A_32_P52519	2.42E-06	0.27125397	OTOA	otoancorin
A_33_P3366082	2.42E-06	-1.27945343	EBPL	emopamil binding protein-like
A_23_P430930	2.44E-06	0.54757483	RSPO2	R-spondin 2
A_23_P320717	2.44E-06	-0.39200365	COG4	component of oligomeric golgi complex 4
A_23_P70398	2.45E-06	1.74455443	VEGFA	vascular endothelial growth factor A
A_23_P161338	2.45E-06	-0.68998297	PPA1	pyrophosphatase (inorganic) 1
A_23_P252062	2.46E-06	0.73818279	PPARG	peroxisome proliferator-activated receptor gamma
A_32_P351968	2.46E-06	-0.74815145	HLA-DMB	major histocompatibility complex, class II, DM beta
A_33_P3421520	2.47E-06	1.2221101	IKZF5	IKAROS family zinc finger 5 (Pegasus)
A_24_P166663	2.47E-06	0.92761257	CDK6	cyclin-dependent kinase 6
A_33_P3220818	2.47E-06	1.06793111	SAFB	scaffold attachment factor B
A_23_P355776	2.47E-06	0.59569818	LINC00266-1	long intergenic non-protein coding RNA 266-1
A_32_P96807	2.47E-06	1.11909301	RC3H1	ring finger and CCCH-type domains 1
A_24_P413884	2.47E-06	1.56830557	CENPA	centromere protein A

A_23_P410224	2.47E-06	0.52060669	C6orf52	chromosome 6 open reading frame 52
A_23_P151529	2.49E-06	-1.85141301	C14orf132	chromosome 14 open reading frame 132
A_23_P41765	2.50E-06	0.62072521	IRF1	interferon regulatory factor 1
A_33_P3402570	2.51E-06	1.27351429	CCDC59	coiled-coil domain containing 59
A_33_P3213997	2.52E-06	-0.83325854	DHRS4L2	dehydrogenase/reductase (SDR family) member 4 like 2
A_23_P37942	2.52E-06	0.61073397	CLDN6	claudin 6
A_23_P54846	2.53E-06	0.98253488	HERPUD1	homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1
A_23_P93258	2.54E-06	1.09006861	HIST1H3B	histone cluster 1, H3b
A_33_P3267375	2.54E-06	-1.14921983	SGCD	sarcoglycan, delta (35kDa dystrophin-associated glycoprotein)
A_23_P150876	2.54E-06	1.10782338	VPS37B	vacuolar protein sorting 37 homolog B (<i>S. cerevisiae</i>)
A_23_P103256	2.55E-06	-1.22709288	CFHR3	complement factor H-related 3
A_33_P3319900	2.55E-06	0.27116067	PRG1	p53-responsive gene 1
A_32_P203917	2.55E-06	0.66505847	C9	complement component 9
A_23_P8834	2.55E-06	-0.38144174	EPHX2	epoxide hydrolase 2, cytoplasmic
A_23_P111888	2.56E-06	-0.88755043	CTHRC1	collagen triple helix repeat containing 1
A_24_P220058	2.56E-06	0.58939839	MAPRE1	microtubule-associated protein, RP/EB family, member 1
A_24_P252078	2.56E-06	-1.187563	BTN3A2	butyrophilin, subfamily 3, member A2
A_23_P83134	2.58E-06	-0.52675851	GAS1	growth arrest-specific 1
A_23_P112825	2.58E-06	-0.71220619	LCMT1	leucine carboxyl methyltransferase 1
A_33_P3418025	2.58E-06	-1.00936304	CTSO	cathepsin O
A_23_P162874	2.59E-06	-0.76133296	HSP90AA1	heat shock protein 90kDa alpha (cytosolic), class A member 1
A_23_P303833	2.60E-06	-1.41973841	SCN4B	sodium channel, voltage-gated, type IV, beta
A_33_P3284359	2.61E-06	1.24935086	NROB1	nuclear receptor subfamily 0, group B, member 1
A_33_P3382856	2.61E-06	-0.84019628	DCN	decorin
A_33_P3262635	2.63E-06	-0.69586846	CECR1	cat eye syndrome chromosome region, candidate 1
A_23_P127195	2.63E-06	-0.4390746	PRPF18	PRP18 pre-mRNA processing factor 18 homolog (<i>S. cerevisiae</i>)
A_33_P3296479	2.63E-06	-1.28165401	APP	amyloid beta (A4) precursor protein
A_23_P310274	2.64E-06	-0.46670135	PRSS2	protease, serine, 2 (trypsin 2)
A_23_P49338	2.64E-06	1.66250118	TNFRSF12A	tumor necrosis factor receptor superfamily, member 12A
A_23_P354027	2.64E-06	-0.612935	KCTD11	potassium channel tetramerisation domain containing 11
A_33_P3312504	2.65E-06	2.48420413	PSD4	pleckstrin and Sec7 domain containing 4
A_23_P135164	2.65E-06	2.26032984	UAP1L1	UDP-N-acetylglucosamine pyrophosphorylase 1-like 1
A_23_P218858	2.66E-06	-1.21299591	ABI3BP	ABI family, member 3 (NESH) binding protein
A_24_P77676	2.66E-06	1.23911718	HSPA9	heat shock 70kDa protein 9 (mortalin)
A_23_P300056	2.66E-06	0.38037616	CDC42	cell division cycle 42 (GTP binding protein, 25kDa)
A_33_P3254141	2.66E-06	0.49914923	LOC285696	uncharacterized LOC285696
A_24_P942068	2.66E-06	0.92067452	TANC2	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2

A_33_P3358295	2.66E-06	-0.57092385	ABTB1	ankyrin repeat and BTB (POZ) domain containing 1
A_23_P122464	2.67E-06	0.86482589	ZNF193	zinc finger protein 193
A_24_P103264	2.67E-06	-0.51893013	UGT8	UDP glycosyltransferase 8
A_23_P70201	2.68E-06	1.38018399	CHD1	chromodomain helicase DNA binding protein 1
A_23_P259692	2.68E-06	-1.14114451	PSAT1	phosphoserine aminotransferase 1
A_23_P327777	2.69E-06	0.41398117	GATS	GATS, stromal antigen 3 opposite strand
A_24_P80135	2.69E-06	-0.78461349	PTPN18	protein tyrosine phosphatase, non-receptor type 18 (brain-derived)
A_23_P370682	2.69E-06	2.18521506	BATF2	basic leucine zipper transcription factor, ATF-like 2
A_33_P3262124	2.69E-06	2.36179643	MMP25	matrix metalloproteinase 25
A_23_P346302	2.70E-06	-0.53644517	ZMAT2	zinc finger, matrin-type 2
A_33_P3574055	2.70E-06	-0.77975004	LOC100506710	endogenous Bornavirus-like nucleoprotein 2 pseudogene
A_23_P140154	2.70E-06	0.91837521	C14orf109	chromosome 14 open reading frame 109
A_33_P3266165	2.70E-06	0.56801389	LOC400499	uncharacterized LOC400499
A_23_P230	2.71E-06	0.48377901	TTC4	tetratricopeptide repeat domain 4
A_24_P88565	2.72E-06	-0.52009414	SLC50A1	solute carrier family 50 (sugar transporter), member 1
A_33_P3339397	2.72E-06	-0.65623368	SH3YL1	SH3 domain containing, Ysc84-like 1 (<i>S. cerevisiae</i>)
A_23_P30363	2.72E-06	-0.9653226	P4HA2	prolyl 4-hydroxylase, alpha polypeptide II
A_23_P257043	2.74E-06	2.23368369	GEM	GTP binding protein overexpressed in skeletal muscle
A_23_P92093	2.75E-06	0.76460555	CELSR3	cadherin, EGF LAG seven-pass G-type receptor 3 (flamingo homolog, <i>Drosophila</i>)
A_24_P5550	2.75E-06	1.12823071	PHF23	PHD finger protein 23
A_33_P3417452	2.75E-06	1.05885004	ZGLP1	zinc finger, GATA-like protein 1
A_32_P232192	2.75E-06	0.78453607	DIS3L2	DIS3 mitotic control homolog (<i>S. cerevisiae</i>)-like 2
A_33_P3329522	2.76E-06	-0.88929523	LRRC17	leucine rich repeat containing 17
A_24_P73075	2.77E-06	-0.54098143	TTC12	tetratricopeptide repeat domain 12
A_23_P149775	2.77E-06	1.23376285	ARHGAP12	Rho GTPase activating protein 12
A_23_P153251	2.77E-06	1.05597283	ZNF274	zinc finger protein 274
A_23_P104054	2.77E-06	1.25082657	C1orf9	chromosome 1 open reading frame 9
A_23_P162734	2.77E-06	1.90148133	RNF6	ring finger protein (C3H2C3 type) 6
A_23_P258272	2.77E-06	0.47407979	SDCCAG3	serologically defined colon cancer antigen 3
A_33_P3323803	2.77E-06	-0.53238269	PDE4DIP	phosphodiesterase 4D interacting protein
A_23_P210445	2.77E-06	-0.36340717	L3MBTL1	l(3)mbt-like 1 (<i>Drosophila</i>)
A_33_P3400653	2.77E-06	-0.77110026	BNIP2	BCL2/adenovirus E1B 19kDa interacting protein 2
A_23_P53663	2.77E-06	0.91668808	PAWR	PRKC, apoptosis, WT1, regulator
A_33_P3387145	2.77E-06	-0.92181525	SH3KBP1	SH3-domain kinase binding protein 1
A_33_P3319542	2.77E-06	1.53607993	SLC8A2	solute carrier family 8 (sodium/calcium exchanger), member 2
A_33_P3344127	2.77E-06	0.74752131	HIST1H2AC	histone cluster 1, H2ac
A_24_P38347	2.78E-06	-1.1799791	DPYSL2	dihydropyrimidinase-like 2

A_23_P218158	2.78E-06	1.3011701	SMEK1	SMEK homolog 1, suppressor of mek1 (Dictyostelium)
A_23_P216023	2.78E-06	-1.13864186	ANGPT1	angiopoietin 1
A_33_P3272140	2.78E-06	0.72600067	NUP35	nucleoporin 35kDa
A_33_P3342720	2.78E-06	1.34451238	ATP2A1	ATPase, Ca++ transporting, cardiac muscle, fast twitch 1
A_33_P3416767	2.79E-06	1.24664629	MAFG	v-maf musculoaponeurotic fibrosarcoma oncogene homolog G (avian)
A_23_P20752	2.81E-06	0.80608136	CDK20	cyclin-dependent kinase 20
A_33_P3317576	2.81E-06	-0.88779604	DHFRL1	dihydrofolate reductase-like 1
A_33_P3289192	2.82E-06	0.96284554	HBS1L	HBS1-like (<i>S. cerevisiae</i>)
A_33_P3285824	2.82E-06	-0.94339134	C4orf3	chromosome 4 open reading frame 3
A_23_P101208	2.84E-06	-0.75909285	CYB5A	cytochrome b5 type A (microsomal)
A_23_P35230	2.85E-06	-0.76148841	CD46	CD46 molecule, complement regulatory protein
A_23_P258190	2.85E-06	-0.91391402	AKR1B1	aldo-keto reductase family 1, member B1 (aldose reductase)
A_33_P3279353	2.85E-06	0.54816619	AZU1	azurocidin 1
A_32_P108474	2.86E-06	1.05920552	ABCE1	ATP-binding cassette, sub-family E (OABP), member 1
A_24_P579356	2.86E-06	-0.76501672	ARHGAP28	Rho GTPase activating protein 28
A_33_P3330468	2.86E-06	-0.3453665	RBM41	RNA binding motif protein 41
A_32_P194779	2.87E-06	0.77142491	ZBTB34	zinc finger and BTB domain containing 34
A_24_P203678	2.88E-06	-1.01825437	ACAT1	acetyl-CoA acetyltransferase 1
A_24_P198629	2.88E-06	0.60285443	LINS	lines homolog (<i>Drosophila</i>)
A_23_P64661	2.88E-06	0.56392293	ARHGAP9	Rho GTPase activating protein 9
A_32_P14850	2.88E-06	1.00158837	NPIPL2	nuclear pore complex interacting protein-like 2
A_33_P3289705	2.89E-06	-0.4798209	GOLGB1	golgin B1
A_33_P3253249	2.89E-06	-0.9261471	FTH1	ferritin, heavy polypeptide 1
A_23_P94338	2.89E-06	-1.15382098	ENPP2	ectonucleotide pyrophosphatase/phosphodiesterase 2
A_33_P3334121	2.89E-06	-0.87995609		
A_33_P3368358	2.89E-06	0.72947006	NEDD9	neural precursor cell expressed, developmentally down-regulated 9
A_23_P303317	2.89E-06	0.71845957	ZXDC	ZXD family zinc finger C
A_23_P85180	2.90E-06	-0.91041997	TMEM187	transmembrane protein 187
A_24_P28722	2.91E-06	2.66753286	RSAD2	radical S-adenosyl methionine domain containing 2
A_23_P139682	2.91E-06	-0.55399934	PZP	pregnancy-zone protein
A_23_P136986	2.91E-06	0.67160041	APOOL	apolipoprotein O-like
A_23_P205046	2.91E-06	2.00206265	ANKRD10	ankyrin repeat domain 10
A_23_P202496	2.92E-06	0.98107254	NOC3L	nucleolar complex associated 3 homolog (<i>S. cerevisiae</i>)
A_23_P157283	2.93E-06	-1.15084127	C7orf23	chromosome 7 open reading frame 23
A_33_P3527721	2.94E-06	-0.56868322	LOC284219	uncharacterized LOC284219
A_32_P75661	2.97E-06	0.98585724		
A_23_P113161	2.98E-06	-0.31735438	C1orf21	chromosome 1 open reading frame 21

A_24_P353638	3.00E-06	0.91774779	SLAMF7	SLAM family member 7
A_32_P18824	3.00E-06	-0.92494253	BRD7	bromodomain containing 7
A_23_P103631	3.00E-06	0.94731558	EBNA1BP2	EBNA1 binding protein 2
A_32_P191004	3.00E-06	0.78953723	ATAD2B	ATPase family, AAA domain containing 2B
A_23_P135990	3.00E-06	-0.5761369	SLCO2A1	solute carrier organic anion transporter family, member 2A1
A_23_P164057	3.01E-06	-2.93196513	MFAP4	microfibrillar-associated protein 4
A_24_P159434	3.01E-06	0.41415849	CD300A	CD300a molecule
A_33_P3271711	3.01E-06	0.80812333		
A_23_P2492	3.01E-06	-1.72723584	C1S	complement component 1, s subcomponent
A_33_P3420078	3.05E-06	-0.45856648	LRP11	low density lipoprotein receptor-related protein 11
A_23_P82762	3.05E-06	0.6626678	ZNF596	zinc finger protein 596
A_23_P92132	3.07E-06	0.62711332	IFRD2	interferon-related developmental regulator 2
A_23_P163258	3.08E-06	1.81685606	PARP6	poly (ADP-ribose) polymerase family, member 6
A_33_P3269728	3.09E-06	0.68278751	ANKRD10	ankyrin repeat domain 10
A_23_P74663	3.11E-06	0.72466613	TAF1A	TATA box binding protein (TBP)-associated factor, RNA polymerase I, A, 48kDa
A_33_P3332081	3.14E-06	0.86338673	KHDRBS3	KH domain containing, RNA binding, signal transduction associated 3
A_23_P334751	3.14E-06	0.43786377	B3GALNT2	beta-1,3-N-acetylgalactosaminyltransferase 2
A_23_P388993	3.15E-06	0.78643723	ZC3H12C	zinc finger CCCH-type containing 12C
A_23_P73114	3.17E-06	-1.1808084	PROS1	protein S (alpha)
A_33_P3340718	3.17E-06	1.2396959	KDM6A	lysine (K)-specific demethylase 6A
A_33_P3391603	3.17E-06	-1.39631338	LAMA4	laminin, alpha 4
A_33_P3762918	3.18E-06	1.68858461	LOC100216546	uncharacterized LOC100216546
A_23_P67980	3.18E-06	1.69841644	KLF7	Kruppel-like factor 7 (ubiquitous)
A_33_P3381410	3.18E-06	0.5716006	ORC2	origin recognition complex, subunit 2
A_23_P340848	3.18E-06	-1.11940712	PTGIR	prostaglandin I2 (prostacyclin) receptor (IP)
A_24_P759477	3.19E-06	-1.01745866	ITGB8	integrin, beta 8
A_33_P3406552	3.19E-06	0.62963176	FLJ32955	uncharacterized protein FLJ32955
A_24_P317827	3.19E-06	-0.6599158	TMEM8B	transmembrane protein 8B
A_33_P3297606	3.21E-06	0.50136947	PLSCR2	phospholipid scramblase 2
A_33_P3238052	3.21E-06	0.73083702	C12orf24	chromosome 12 open reading frame 24
A_23_P161399	3.21E-06	-1.15412287	MXI1	MAX interactor 1
A_32_P90483	3.22E-06	-0.40777158	STXBP4	syntaxin binding protein 4
A_33_P3354564	3.22E-06	-0.55176267	GPD2	glycerol-3-phosphate dehydrogenase 2 (mitochondrial)
A_33_P3259148	3.22E-06	0.65302087	ZNF286B	zinc finger protein 286B
A_24_P217365	3.22E-06	0.86886105	ANKRD28	ankyrin repeat domain 28
A_33_P3374673	3.23E-06	0.57294561	GNN	Grp94 neighboring nucleotidase pseudogene
A_23_P300600	3.24E-06	0.98975628	NEFH	neurofilament, heavy polypeptide

A_33_P3246543	3.29E-06	-0.80217079	MAT2B	methionine adenosyltransferase II, beta
A_32_P45493	3.30E-06	1.06617407	SRSF10	serine/arginine-rich splicing factor 10
A_23_P100344	3.30E-06	0.45331691	ORC6	origin recognition complex, subunit 6
A_23_P69908	3.32E-06	-1.28320533	GLRX	glutaredoxin (thioltransferase)
A_33_P3215575	3.32E-06	0.86160545	ARHGEF10L	Rho guanine nucleotide exchange factor (GEF) 10-like
A_23_P83028	3.34E-06	-1.1207741	RECK	reversion-inducing-cysteine-rich protein with kazal motifs
A_23_P112846	3.34E-06	0.54754312	MTHFD2L	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2-like
A_33_P3479449	3.35E-06	0.25914786	LOC100506328	uncharacterized LOC100506328
A_23_P133755	3.35E-06	-0.68378967	PREP	prolyl endopeptidase
A_23_P54576	3.36E-06	3.24647355	KIFC3	kinesin family member C3
A_23_P17345	3.37E-06	-0.79700866	MAFB	v-maf musculoaponeurotic fibrosarcoma oncogene homolog B (avian)
A_24_P143324	3.44E-06	0.81035375	SYT16	synaptotagmin XVI
A_32_P45009	3.44E-06	-1.19758958	IDH1	isocitrate dehydrogenase 1 (NADP+), soluble
A_33_P3221293	3.46E-06	-0.91895407	DFNA5	deafness, autosomal dominant 5
A_33_P3324505	3.46E-06	0.30824629		
A_33_P3230017	3.48E-06	0.46176119	AURKAPS1	aurora kinase A pseudogene 1
A_23_P63798	3.51E-06	1.825343	KLF6	Kruppel-like factor 6
A_24_P56194	3.51E-06	-0.8511835	CREBL2	cAMP responsive element binding protein-like 2
A_23_P67424	3.51E-06	0.54046753	ZNF461	zinc finger protein 461
A_23_P6263	3.52E-06	1.99318137	MX2	myxovirus (influenza virus) resistance 2 (mouse)
A_23_P24192	3.52E-06	1.1123476	RRP12	ribosomal RNA processing 12 homolog (<i>S. cerevisiae</i>)
A_23_P26024	3.55E-06	0.97779233	C15orf48	chromosome 15 open reading frame 48
A_23_P137035	3.56E-06	-1.15110871	PIR	pirin (iron-binding nuclear protein)
A_23_P300781	3.58E-06	0.73461139	CNOT4	CCR4-NOT transcription complex, subunit 4
A_23_P150018	3.58E-06	1.02606666	DUSP5	dual specificity phosphatase 5
A_33_P3341722	3.59E-06	1.24097055	COL23A1	collagen, type XXIII, alpha 1
A_23_P152678	3.59E-06	-0.96513831	B9D1	B9 protein domain 1
A_33_P3368139	3.61E-06	0.98423669	MAP3K1	mitogen-activated protein kinase kinase kinase 1
A_23_P403081	3.62E-06	0.54829863	C5orf34	chromosome 5 open reading frame 34
A_33_P3243419	3.62E-06	0.24447885		
A_33_P3278774	3.62E-06	0.50083234	ZNF44	zinc finger protein 44
A_33_P3215193	3.62E-06	-0.5141983	NMNAT1	nicotinamide nucleotide adenylyltransferase 1
A_23_P56734	3.63E-06	-0.51815758	HNMT	histamine N-methyltransferase
A_33_P3305536	3.63E-06	0.32564553	METTL15	methyltransferase like 15
A_23_P368691	3.63E-06	0.90633194	ABCC9	ATP-binding cassette, sub-family C (CFTR/MRP), member 9
A_23_P36795	3.63E-06	0.59594579	SYT1	synaptotagmin I
A_23_P367405	3.63E-06	-1.31677836	PCBD1	pterin-4 alpha-carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha

A_23_P77160	3.63E-06	1.06056444	RNF111	ring finger protein 111
A_33_P3311917	3.63E-06	-0.36261353		
A_24_P408047	3.64E-06	0.84987808	PLEKHA4	pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 4
A_23_P20732	3.64E-06	0.74436122	GTF3C4	general transcription factor IIIC, polypeptide 4, 90kDa
A_32_P16854	3.64E-06	0.42531282	ANAPC13	anaphase promoting complex subunit 13
A_23_P90484	3.64E-06	-0.48468398	SARS2	seryl-tRNA synthetase 2, mitochondrial
A_33_P3240538	3.65E-06	1.06691928	TUBE1	tubulin, epsilon 1
A_23_P46045	3.66E-06	-0.6635246	RGS5	regulator of G-protein signaling 5
A_24_P349002	3.66E-06	0.72297904	POM121	POM121 membrane glycoprotein
A_23_P162037	3.67E-06	0.72967265	ARNTL	aryl hydrocarbon receptor nuclear translocator-like
A_23_P352389	3.67E-06	0.49501831	C17orf46	chromosome 17 open reading frame 46
A_23_P53467	3.67E-06	-0.89540117	IKBIP	IKBKB interacting protein
A_24_P247536	3.68E-06	0.51762688	FAM133B	family with sequence similarity 133, member B
A_33_P3349521	3.69E-06	-0.68324928	TMEM66	transmembrane protein 66
A_33_P3410599	3.69E-06	1.46959228	FAM46A	family with sequence similarity 46, member A
A_23_P205646	3.69E-06	1.48418004	MAP4K5	mitogen-activated protein kinase kinase kinase kinase 5
A_32_P221958	3.70E-06	1.73787621	AGAP7	ArfGAP with GTPase domain, ankyrin repeat and PH domain 7
A_32_P144421	3.71E-06	0.81203902	ZNF518B	zinc finger protein 518B
A_23_P87664	3.71E-06	1.37482905	SART3	squamous cell carcinoma antigen recognized by T cells 3
A_23_P118749	3.71E-06	0.82805417	DERL2	Der1-like domain family, member 2
A_23_P90172	3.74E-06	4.0068336	PPP1R15A	protein phosphatase 1, regulatory subunit 15A
A_23_P103276	3.75E-06	0.65391269	KTI12	KTI12 homolog, chromatin associated (<i>S. cerevisiae</i>)
A_33_P3391339	3.81E-06	-0.75490982		
A_23_P213441	3.81E-06	0.75010274	UTP15	UTP15, U3 small nucleolar ribonucleoprotein, homolog (<i>S. cerevisiae</i>)
A_24_P212129	3.82E-06	-0.38515414	ZNF33A	zinc finger protein 33A
A_23_P10385	3.84E-06	0.66400573	DTL	denticleless homolog (<i>Drosophila</i>)
A_23_P121956	3.84E-06	-0.47162612	THG1L	tRNA-histidine guanylyltransferase 1-like (<i>S. cerevisiae</i>)
A_23_P200489	3.84E-06	-0.56952074	TMEM63A	transmembrane protein 63A
A_23_P68970	3.84E-06	-0.77606146	ARFGAP3	ADP-ribosylation factor GTPase activating protein 3
A_23_P46812	3.84E-06	0.92749982	CPEB3	cytoplasmic polyadenylation element binding protein 3
A_33_P3413114	3.86E-06	-0.48799086	ADAMTSL1	ADAMTS-like 1
A_24_P3005	3.86E-06	0.98123378	SCN9A	sodium channel, voltage-gated, type IX, alpha subunit
A_23_P15829	3.86E-06	0.92678591	TOP3A	topoisomerase (DNA) III alpha
A_32_P377880	3.87E-06	0.71652765	GDNF	glial cell derived neurotrophic factor
A_23_P57784	3.87E-06	-1.0038741	CLDN1	claudin 1
A_23_P44112	3.87E-06	1.54552916	LAT	linker for activation of T cells
A_33_P3667484	3.87E-06	-0.66348885	LOC648740	actin, gamma 2, smooth muscle, enteric pseudogene

A_23_P71752	3.87E-06	1.06152837	ZFAND5	zinc finger, AN1-type domain 5
A_23_P159974	3.87E-06	-0.61891021	KLHL13	kelch-like 13 (Drosophila)
A_32_P46214	3.87E-06	-1.81159232	SLC9A9	solute carrier family 9 (sodium/hydrogen exchanger), member 9
A_33_P3333587	3.88E-06	-1.8087896	FBXL20	F-box and leucine-rich repeat protein 20
A_24_P343271	3.88E-06	0.36096821	RMND1	required for meiotic nuclear division 1 homolog (S. cerevisiae)
A_23_P110167	3.89E-06	-0.60480293	MGST2	microsomal glutathione S-transferase 2
A_23_P44724	3.89E-06	-1.70370702	CSRP2	cysteine and glycine-rich protein 2
A_23_P115872	3.90E-06	0.65538357	CEP55	centrosomal protein 55kDa
A_23_P431139	3.91E-06	0.45581581	CTRB1	chymotrypsinogen B1
A_33_P3315874	3.92E-06	0.93543714	DHX30	DEAH (Asp-Glu-Ala-His) box polypeptide 30
A_23_P66637	3.92E-06	-1.68048278	SGCA	sarcoglycan, alpha (50kDa dystrophin-associated glycoprotein)
A_23_P35848	3.92E-06	-0.7531296	NADSYN1	NAD synthetase 1
A_23_P93641	3.92E-06	-0.64907543	AKR1B10	aldo-keto reductase family 1, member B10 (aldose reductase)
A_23_P408271	3.92E-06	-1.17164786	HSD17B11	hydroxysteroid (17-beta) dehydrogenase 11
A_23_P376661	3.92E-06	-0.64850372	NIT1	nitrilase 1
A_23_P113111	3.92E-06	-0.76933975	AR	androgen receptor
A_33_P3799936	3.92E-06	1.16905255	ARHGEF10L	Rho guanine nucleotide exchange factor (GEF) 10-like
A_33_P3279167	3.92E-06	0.30480773	NBPF7	neuroblastoma breakpoint family, member 7
A_23_P78152	3.92E-06	0.71312033	MIS12	MIS12, MIND kinetochore complex component, homolog (S. pombe)
A_23_P211445	3.92E-06	0.82563714	LIMK2	LIM domain kinase 2
A_24_P104407	3.92E-06	-0.78802915	SYNM	synemin, intermediate filament protein
A_23_P138717	3.92E-06	-1.28432115	RGS10	regulator of G-protein signaling 10
A_23_P102320	3.94E-06	0.57255712	NUP35	nucleoporin 35kDa
A_23_P103503	3.95E-06	0.67985009	MDM4	Mdm4 p53 binding protein homolog (mouse)
A_33_P3255194	3.95E-06	1.82233556	OSBPL6	oxysterol binding protein-like 6
A_23_P114221	3.95E-06	-0.64244496	RBBP7	retinoblastoma binding protein 7
A_23_P211244	3.95E-06	-0.66787097	PRMT2	protein arginine methyltransferase 2
A_23_P70231	3.97E-06	-1.29572085	ALDH7A1	aldehyde dehydrogenase 7 family, member A1
A_33_P3389898	3.98E-06	2.47197974	OR4D11	olfactory receptor, family 4, subfamily D, member 11
A_24_P162373	3.98E-06	1.40124502	ZNRF3	zinc and ring finger 3
A_23_P407614	4.00E-06	-0.4333096	PYDC1	PYD (pyrin domain) containing 1
A_23_P18692	4.00E-06	-1.30345138	ADH5	alcohol dehydrogenase 5 (class III), chi polypeptide
A_23_P154740	4.00E-06	-0.97465178	PLK1S1	polo-like kinase 1 substrate 1
A_23_P332399	4.00E-06	0.85116839	GULP1	GULP, engulfment adaptor PTB domain containing 1
A_23_P138194	4.02E-06	0.62384924	NCF2	neutrophil cytosolic factor 2
A_24_P50245	4.03E-06	-0.81240916	HLA-DMA	major histocompatibility complex, class II, DM alpha
A_23_P25615	4.04E-06	0.27630481	SOHLH2	spermatogenesis and oogenesis specific basic helix-loop-helix 2

A_23_P25913	4.07E-06	0.61371907	DNAL1	dynein, axonemal, light chain 1
A_23_P20852	4.07E-06	-1.05173714	AUH	AU RNA binding protein/enoyl-CoA hydratase
A_24_P766716	4.07E-06	0.30145928	CMKLR1	chemokine-like receptor 1
A_33_P3226546	4.08E-06	-0.41591925		
A_23_P74467	4.11E-06	1.54083034	KIAA0907	KIAA0907
A_33_P3260722	4.13E-06	0.33277923	UVRAG	UV radiation resistance associated gene
A_24_P83808	4.14E-06	-0.64124299		
A_23_P200252	4.15E-06	-0.86772728	NTPCR	nucleoside-triphosphatase, cancer-related
A_24_P387321	4.15E-06	0.84854691	ZNF44	zinc finger protein 44
A_33_P3251821	4.17E-06	0.64721092	C5orf44	chromosome 5 open reading frame 44
A_24_P1054	4.20E-06	0.89944326	TONSL	tonsoku-like, DNA repair protein
A_33_P3424057	4.20E-06	1.14875843	PEG3	paternally expressed 3
A_23_P379649	4.21E-06	-1.10556942	BMF	Bcl2 modifying factor
A_23_P131263	4.22E-06	0.64867418	MPP4	membrane protein, palmitoylated 4 (MAGUK p55 subfamily member 4)
A_33_P3341901	4.24E-06	-0.82605596	TSR2	TSR2, 20S rRNA accumulation, homolog (S. cerevisiae)
A_33_P3368879	4.24E-06	-0.46253883	LMOD1	leiomodoin 1 (smooth muscle)
A_23_P131771	4.24E-06	-0.64042335	TPD52L2	tumor protein D52-like 2
A_33_P3405474	4.24E-06	-0.6362407		
A_24_P359117	4.25E-06	0.89529668	GPATCH8	G patch domain containing 8
A_23_P51690	4.25E-06	0.54922713	RHBG	Rh family, B glycoprotein (gene/pseudogene)
A_24_P88696	4.25E-06	1.08896191	SCG2	secretogranin II
A_23_P100486	4.25E-06	-1.08345736	VKORC1	vitamin K epoxide reductase complex, subunit 1
A_23_P7342	4.25E-06	-1.11805193	UGT2B10	UDP glucuronosyltransferase 2 family, polypeptide B10
A_23_P390744	4.26E-06	0.9166415	FOPNL	FGFR1OP N-terminal like
A_23_P117274	4.26E-06	-1.1394356	MIPEP	mitochondrial intermediate peptidase
A_33_P3379967	4.28E-06	-0.60251233	HLA-F	major histocompatibility complex, class I, F
A_24_P329635	4.28E-06	1.06657851	TSC1	tuberous sclerosis 1
A_23_P155969	4.29E-06	0.6538065	PLK4	polo-like kinase 4
A_23_P324994	4.30E-06	-0.81437052	KLHL7	kelch-like 7 (Drosophila)
A_24_P56270	4.32E-06	1.05500873	DYRK2	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2
A_23_P81650	4.32E-06	-0.59070512	C5orf15	chromosome 5 open reading frame 15
A_24_P391260	4.33E-06	-0.68990275	PTTG1IP	pituitary tumor-transforming 1 interacting protein
A_33_P3258141	4.33E-06	0.92292174	CHUK	conserved helix-loop-helix ubiquitous kinase
A_23_P88893	4.35E-06	-0.6500618	DEF8	differentially expressed in FDCP 8 homolog (mouse)
A_33_P3268487	4.36E-06	-0.30862145	ABAT	4-aminobutyrate aminotransferase
A_33_P3391727	4.36E-06	0.90978756	SIRT7	sirtuin 7
A_33_P3287631	4.38E-06	-1.0733759	CTSB	cathepsin B

A_23_P253958	4.39E-06	-0.92839926	LRRC17	leucine rich repeat containing 17
A_23_P82108	4.40E-06	1.24571935	ZBTB2	zinc finger and BTB domain containing 2
A_33_P3841368	4.42E-06	-0.40737853	LOC286161	uncharacterized LOC286161
A_23_P405815	4.43E-06	0.28861381	PYGM	phosphorylase, glycogen, muscle
A_33_P3269069	4.43E-06	-0.43694952	HS2ST1	heparan sulfate 2-O-sulfotransferase 1
A_23_P64860	4.43E-06	1.55541185	SELPLG	selectin P ligand
A_23_P82748	4.43E-06	-0.68177593	ENY2	enhancer of yellow 2 homolog (Drosophila)
A_23_P110362	4.43E-06	0.48107096	LAMTOR3	late endosomal/lysosomal adaptor, MAPK and MTOR activator 3
A_32_P137920	4.43E-06	0.63429474	RSPH4A	radial spoke head 4 homolog A (Chlamydomonas)
A_33_P3256344	4.43E-06	1.23758925		
A_24_P942481	4.45E-06	0.65104627	GPR180	G protein-coupled receptor 180
A_23_P10442	4.45E-06	-0.69414363	OSBPL1A	oxysterol binding protein-like 1A
A_23_P168882	4.46E-06	-1.39014846	TP53INP1	tumor protein p53 inducible nuclear protein 1
A_33_P3310371	4.49E-06	-0.65725983	LOC283788	FSHD region gene 1 pseudogene
A_24_P788878	4.51E-06	0.53129942	C2CD4B	C2 calcium-dependent domain containing 4B
A_23_P204801	4.52E-06	0.44597117	SLC41A2	solute carrier family 41, member 2
A_33_P3350094	4.52E-06	0.73618644	PATL2	protein associated with topoisomerase II homolog 2 (yeast)
A_23_P92786	4.52E-06	0.96323522	RBM27	RNA binding motif protein 27
A_24_P253827	4.53E-06	-1.04855521	AP2B1	adaptor-related protein complex 2, beta 1 subunit
A_33_P3369034	4.54E-06	0.77954517	BCAR1	breast cancer anti-estrogen resistance 1
A_23_P200493	4.54E-06	1.02533536	LBR	lamin B receptor
A_24_P70183	4.54E-06	-0.81469966	MYH11	myosin, heavy chain 11, smooth muscle
A_23_P7099	4.55E-06	-0.57453524	AGA	aspartylglucosaminidase
A_33_P3402654	4.57E-06	0.66641191	FLJ43390	uncharacterized LOC646113
A_23_P393025	4.57E-06	0.36902491	SPATA4	spermatogenesis associated 4
A_33_P3414402	4.57E-06	0.69023935	ZNF407	zinc finger protein 407
A_24_P337058	4.59E-06	0.99802753	CCNL1	cyclin L1
A_23_P119857	4.59E-06	1.09173141	TTC32	tetratricopeptide repeat domain 32
A_24_P400355	4.60E-06	1.66427952	GET4	golgi to ER traffic protein 4 homolog (S. cerevisiae)
A_23_P76731	4.61E-06	0.8732243	MOK	MOK protein kinase
A_23_P108823	4.61E-06	0.69089465	OSBPL6	oxysterol binding protein-like 6
A_33_P3415124	4.61E-06	3.41740896	DNAH10OS	dynein, axonemal, heavy chain 10 opposite strand
A_23_P166929	4.62E-06	-0.84922972	SERPINI1	serpin peptidase inhibitor, clade I (neuroserpin), member 1
A_23_P983	4.62E-06	-1.05301665	PRDX6	peroxiredoxin 6
A_23_P133279	4.62E-06	-0.48411655	FAM173B	family with sequence similarity 173, member B
A_32_P129894	4.62E-06	-0.75871414	MEGF9	multiple EGF-like-domains 9
A_23_P168629	4.62E-06	0.67817328	RBM28	RNA binding motif protein 28

A_24_P116242	4.63E-06	-1.06889629	KLHDC2	kelch domain containing 2
A_32_P153388	4.63E-06	0.8739638	GULP1	GULP, engulfment adaptor PTB domain containing 1
A_23_P20683	4.63E-06	0.68762068	KIAA0020	KIAA0020
A_33_P3415336	4.63E-06	0.54213349	ALS2	amyotrophic lateral sclerosis 2 (juvenile)
A_33_P3264955	4.63E-06	-0.90900047		
A_24_P228579	4.63E-06	0.72893337	C20orf7	chromosome 20 open reading frame 7
A_23_P86021	4.64E-06	-1.68851312	SELENBP1	selenium binding protein 1
A_33_P3252605	4.67E-06	-0.94414133	CYP2U1	cytochrome P450, family 2, subfamily U, polypeptide 1
A_23_P155900	4.67E-06	0.22120532	NPFFR2	neuropeptide FF receptor 2
A_23_P413923	4.67E-06	0.33201568	DMRTA1	DMRT-like family A1
A_23_P73982	4.68E-06	0.81000611	TMEM48	transmembrane protein 48
A_24_P273143	4.69E-06	1.27419647	LINC00152	long intergenic non-protein coding RNA 152
A_32_P83098	4.69E-06	0.47410142	SCNN1B	sodium channel, nonvoltage-gated 1, beta
A_24_P712562	4.69E-06	0.26611824	C17orf67	chromosome 17 open reading frame 67
A_33_P3232277	4.69E-06	-1.0085229	CCNG1	cyclin G1
A_23_P98092	4.69E-06	-1.21992504	OAT	ornithine aminotransferase
A_24_P570583	4.70E-06	1.00183633	ZNF542	zinc finger protein 542
A_33_P3379916	4.70E-06	-1.06442202	GLS	glutaminase
A_33_P3294985	4.70E-06	0.27176525	JPX	JPX transcript, XIST activator (non-protein coding)
A_23_P411162	4.70E-06	0.66662098	PER2	period homolog 2 (Drosophila)
A_23_P71328	4.70E-06	-0.92453635	MATN2	matrilin 2
A_23_P114883	4.70E-06	-1.01508831	FMOD	fibromodulin
A_23_P19702	4.73E-06	1.07270695	TAB2	TGF-beta activated kinase 1/MAP3K7 binding protein 2
A_24_P131522	4.74E-06	-1.29870718	ANTXR1	anthrax toxin receptor 1
A_23_P354074	4.74E-06	1.15338754	LYST	lysosomal trafficking regulator
A_33_P3526315	4.74E-06	-0.27988947	MGC12488	uncharacterized protein MGC12488
A_33_P3318288	4.74E-06	-1.23235473	CFH	complement factor H
A_33_P3316329	4.75E-06	-0.65555224		
A_32_P199252	4.77E-06	-0.71310172	HSP90AA1	heat shock protein 90kDa alpha (cytosolic), class A member 1
A_24_P331704	4.77E-06	0.51725832	KRT80	keratin 80
A_33_P3380529	4.77E-06	-0.78283824	PRTFDC1	phosphoribosyl transferase domain containing 1
A_32_P182388	4.77E-06	0.7932859	ZNF77	zinc finger protein 77
A_23_P152136	4.79E-06	1.01417196	GINS3	GINS complex subunit 3 (Psf3 homolog)
A_24_P56467	4.79E-06	-1.01980833	GMMPR2	guanosine monophosphate reductase 2
A_23_P24903	4.80E-06	0.39187593	P2RY2	purinergic receptor P2Y, G-protein coupled, 2
A_23_P409386	4.83E-06	1.14957509	SLC25A22	solute carrier family 25 (mitochondrial carrier: glutamate), member 22
A_33_P3214456	4.85E-06	-0.44300633	PDSS2	prenyl (decaprenyl) diphosphate synthase, subunit 2

A_24_P61753	4.85E-06	0.75836954	KIAA0664	KIAA0664
A_24_P122921	4.89E-06	-1.1050985	BCL2L11	BCL2-like 11 (apoptosis facilitator)
A_23_P1585	4.89E-06	0.72508756	ESRRA	estrogen-related receptor alpha
A_33_P3322283	4.89E-06	-0.76015566	AZI2	5-azacytidine induced 2
A_33_P3294524	4.90E-06	1.49400155	ANKRD12	ankyrin repeat domain 12
A_23_P92614	4.90E-06	0.850751	HELQ	helicase, POLQ-like
A_23_P31376	4.90E-06	0.89758531	LRRN3	leucine rich repeat neuronal 3
A_23_P23855	4.92E-06	-1.15884283	POLR3GL	polymerase (RNA) III (DNA directed) polypeptide G (32kD)-like
A_33_P3258875	4.92E-06	1.08071912		
A_24_P132276	4.93E-06	0.42778161	QRSL1	glutaminyl-tRNA synthase (glutamine-hydrolyzing)-like 1
A_23_P20275	4.93E-06	0.76174088	PLEKHF2	pleckstrin homology domain containing, family F (with FYVE domain) member 2
A_33_P3365805	4.94E-06	-0.45900129	CLN5	ceroid-lipofuscinosis, neuronal 5
A_23_P328259	4.94E-06	0.21999663	FHDC1	FH2 domain containing 1
A_23_P52266	4.94E-06	2.05697934	IFIT1	interferon-induced protein with tetratricopeptide repeats 1
A_23_P17074	4.95E-06	-1.2111171	CCDC115	coiled-coil domain containing 115
A_23_P135548	4.99E-06	-0.90459604	DPYD	dihydropyrimidine dehydrogenase
A_33_P3888365	5.03E-06	0.7038753	RSBN1	round spermatid basic protein 1
A_23_P377616	5.03E-06	-1.09379326	CIRBP	cold inducible RNA binding protein
A_24_P376339	5.03E-06	-0.37026823	CCNL2	cyclin L2
A_33_P3390773	5.05E-06	-0.48315381	TRIM66	tripartite motif containing 66
A_33_P3364869	5.05E-06	-0.63496717	NAMPT	nicotinamide phosphoribosyltransferase
A_33_P3269588	5.06E-06	-0.66381975	GABPA	GA binding protein transcription factor, alpha subunit 60kDa
A_24_P364042	5.07E-06	1.64192222	PPYR1	pancreatic polypeptide receptor 1
A_23_P3514	5.07E-06	0.86235167	C16orf80	chromosome 16 open reading frame 80
A_23_P255535	5.09E-06	0.38457772	ASMT	acetylserotonin O-methyltransferase
A_24_P384569	5.09E-06	0.51081923	EWSR1	Ewing sarcoma breakpoint region 1
A_23_P127652	5.11E-06	0.74205532	ZNF202	zinc finger protein 202
A_33_P3331366	5.12E-06	0.92574576	TRIM25	tripartite motif containing 25
A_24_P149645	5.15E-06	0.55125769	PUF60	poly-U binding splicing factor 60KDa
A_23_P22134	5.15E-06	1.50553629	BNC1	basonuclin 1
A_23_P80122	5.16E-06	-0.84986798	WRB	tryptophan rich basic protein
A_33_P3243618	5.16E-06	-0.43471831	GPR137B	G protein-coupled receptor 137B
A_23_P161156	5.16E-06	1.00229285	ZNF438	zinc finger protein 438
A_23_P24157	5.16E-06	0.51577121	PYROXD2	pyridine nucleotide-disulphide oxidoreductase domain 2
A_23_P142294	5.16E-06	-0.8318848	ETHE1	ethylmalonic encephalopathy 1
A_33_P3359115	5.17E-06	-0.91487654	LMBRD1	LMBR1 domain containing 1
A_33_P3363271	5.21E-06	0.72374834	CACNB2	calcium channel, voltage-dependent, beta 2 subunit

A_23_P77714	5.22E-06	-0.76707683	CLUAP1	clusterin associated protein 1
A_32_P74366	5.22E-06	-0.24415692	VCP1P1	valosin containing protein (p97)/p47 complex interacting protein 1
A_33_P3249214	5.23E-06	2.72803268	CNOT6L	CCR4-NOT transcription complex, subunit 6-like
A_32_P35947	5.23E-06	1.11347548	LOC728763	rootletin-like
A_23_P70785	5.23E-06	0.62237107	AIM1	absent in melanoma 1
A_24_P258955	5.25E-06	1.99156756	ZNF317	zinc finger protein 317
A_33_P3380883	5.26E-06	0.51312095	XPA	xeroderma pigmentosum, complementation group A
A_23_P46333	5.26E-06	1.02936199	MTF2	metal response element binding transcription factor 2
A_23_P122947	5.26E-06	1.3104821	AVL9	AVL9 homolog (<i>S. cerevisiae</i>)
A_24_P945113	5.26E-06	-0.34360124	ACVRL1	activin A receptor type II-like 1
A_32_P536872	5.26E-06	0.33417944	TDRD5	tudor domain containing 5
A_23_P331479	5.29E-06	0.86807836	PPP1R18	protein phosphatase 1, regulatory subunit 18
A_33_P3210338	5.31E-06	1.23081234	RFX7	regulatory factor X, 7
A_33_P3415247	5.32E-06	0.33272275	LOC115110	uncharacterized LOC115110
A_23_P99540	5.32E-06	0.63530611	ZFP36L1	zinc finger protein 36, C3H type-like 1
A_24_P307014	5.32E-06	1.27594588	BRD2	bromodomain containing 2
A_23_P134517	5.32E-06	1.32200266	PURB	purine-rich element binding protein B
A_23_P64499	5.33E-06	-0.66084051	MOB2	MOB kinase activator 2
A_23_P126057	5.33E-06	-0.84588742	SCP2	sterol carrier protein 2
A_33_P3420402	5.33E-06	1.45390278	HACE1	HECT domain and ankyrin repeat containing, E3 ubiquitin protein ligase 1
A_23_P88099	5.33E-06	0.98331653	MCF2L	MCF.2 cell line derived transforming sequence-like
A_23_P41664	5.34E-06	0.34250047	LRRC70	leucine rich repeat containing 70
A_33_P3386835	5.34E-06	0.94946739	SLC20A2	solute carrier family 20 (phosphate transporter), member 2
A_23_P168812	5.34E-06	0.42601264	FAM200A	family with sequence similarity 200, member A
A_23_P80040	5.34E-06	-1.13156551	PROCR	protein C receptor, endothelial
A_23_P92230	5.35E-06	2.40767017	TSC22D2	TSC22 domain family, member 2
A_33_P3246293	5.35E-06	0.38510862	HBS1L	HBS1-like (<i>S. cerevisiae</i>)
A_33_P3511777	5.35E-06	1.11516141	LOC201477	uncharacterized LOC201477
A_32_P204205	5.35E-06	-0.91949433	SIX4	SIX homeobox 4
A_24_P66528	5.39E-06	-0.68482817	SRP9	signal recognition particle 9kDa
A_23_P1199	5.40E-06	-1.03258485	NUDT5	nudix (nucleoside diphosphate linked moiety X)-type motif 5
A_23_P353614	5.40E-06	0.99574533	C8orf46	chromosome 8 open reading frame 46
A_23_P209564	5.41E-06	-1.43236913	CYBRD1	cytochrome b reductase 1
A_33_P3288159	5.41E-06	0.9655063	ASPM	asp (abnormal spindle) homolog, microcephaly associated (<i>Drosophila</i>)
A_24_P336931	5.42E-06	0.61298594	ANKRD36	ankyrin repeat domain 36
A_33_P3284463	5.43E-06	-0.76380972	ASAH1	N-acylsphingosine amidohydrolase (acid ceramidase) 1
A_23_P501435	5.44E-06	0.57776029	CSRP2BP	CSRP2 binding protein

A_33_P3323722	5.46E-06	0.82937353	ARL4C	ADP-ribosylation factor-like 4C
A_24_P212539	5.46E-06	-0.60464017	GALM	galactose mutarotase (aldose 1-epimerase)
A_23_P335428	5.46E-06	-0.95581057	HIBADH	3-hydroxyisobutyrate dehydrogenase
A_33_P3362193	5.46E-06	0.83124235	RAD23A	RAD23 homolog A (<i>S. cerevisiae</i>)
A_23_P126037	5.48E-06	1.35925382	RLF	rearranged L-myc fusion
A_23_P30972	5.48E-06	1.18294557	ASCC3	activating signal cointegrator 1 complex subunit 3
A_33_P3641714	5.48E-06	1.07257737	C19orf66	chromosome 19 open reading frame 66
A_33_P3410589	5.48E-06	-0.72992485	FAM43A	family with sequence similarity 43, member A
A_23_P385861	5.48E-06	1.37920378	CDCA2	cell division cycle associated 2
A_33_P3384617	5.50E-06	0.40232932		
A_33_P3213752	5.50E-06	0.56217991	CDK5RAP1	CDK5 regulatory subunit associated protein 1
A_24_P915007	5.50E-06	0.92621919	NACC1	nucleus accumbens associated 1, BEN and BTB (POZ) domain containing
A_33_P3371718	5.51E-06	-1.46172168	SAT1	spermidine/spermine N1-acetyltransferase 1
A_23_P52121	5.52E-06	1.02930161	PDZK1	PDZ domain containing 1
A_23_P132718	5.54E-06	-0.74418221	SEMA3B	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3B
A_33_P3239512	5.54E-06	0.43935573	ZNF836	zinc finger protein 836
A_24_P521994	5.54E-06	-1.87638402	KLHL24	kelch-like 24 (<i>Drosophila</i>)
A_24_P157342	5.54E-06	-1.36152639	BRK1	BRICK1, SCAR/WAVE actin-nucleating complex subunit
A_23_P68884	5.54E-06	0.44117965	DRG1	developmentally regulated GTP binding protein 1
A_24_P40551	5.59E-06	-0.87769357	BEX4	brain expressed, X-linked 4
A_33_P3401586	5.59E-06	0.59215586	EFCAB10	EF-hand calcium binding domain 10
A_33_P3227880	5.60E-06	-0.36417046	BTN3A2	butyrophilin, subfamily 3, member A2
A_33_P3273364	5.61E-06	-0.93489211	YIPF2	Yip1 domain family, member 2
A_23_P129221	5.63E-06	-1.05479651	FAH	fumarylacetoacetate hydrolase (fumarylacetoacetase)
A_23_P209625	5.63E-06	-1.15653902	CYP1B1	cytochrome P450, family 1, subfamily B, polypeptide 1
A_33_P3254708	5.64E-06	1.10012943	ARHGAP40	Rho GTPase activating protein 40
A_23_P4919	5.64E-06	-1.09015995	KDEL1	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 1
A_33_P3363395	5.64E-06	0.52492065		
A_23_P383009	5.72E-06	-1.24091294	IGFBP5	insulin-like growth factor binding protein 5
A_33_P3210521	5.74E-06	0.96867648	C2orf43	chromosome 2 open reading frame 43
A_24_P311926	5.74E-06	-0.82369687	HLA-G	major histocompatibility complex, class I, G
A_33_P3327921	5.76E-06	-0.43762023	RHOQ	ras homolog gene family, member Q
A_23_P134925	5.76E-06	-1.03973691	BNIP3L	BCL2/adenovirus E1B 19kDa interacting protein 3-like
A_33_P3411741	5.76E-06	-0.7275187	SIDT2	SID1 transmembrane family, member 2
A_23_P146187	5.77E-06	0.62662276	RRS1	RRS1 ribosome biogenesis regulator homolog (<i>S. cerevisiae</i>)
A_33_P3322192	5.78E-06	1.03380997		
A_23_P250122	5.80E-06	-0.98594348	FAM20C	family with sequence similarity 20, member C

A_23_P203344	5.80E-06	0.63533944	ZFP91	zinc finger protein 91 homolog (mouse)
A_23_P128554	5.81E-06	-1.08881227	EBPL	emopamil binding protein-like
A_33_P3642648	5.82E-06	0.64526625	ZNF460	zinc finger protein 460
A_33_P3302255	5.82E-06	-0.81823418	ITM2B	integral membrane protein 2B
A_23_P304171	5.82E-06	1.46712519	KIAA0226	KIAA0226
A_33_P3348159	5.82E-06	1.10125232	MKLN1	muskelin 1, intracellular mediator containing kelch motifs
A_33_P3212839	5.83E-06	-0.63995277		
A_23_P307536	5.84E-06	0.33166349	SH3D21	SH3 domain containing 21
A_33_P3418120	5.85E-06	0.59862329	IPPK	inositol 1,3,4,5,6-pentakisphosphate 2-kinase
A_24_P124973	5.85E-06	-0.42243029	NDNL2	necdin-like 2
A_23_P120953	5.85E-06	-0.39273791	SERHL2	serine hydrolase-like 2
A_33_P3406939	5.86E-06	0.42464782	KIF24	kinesin family member 24
A_33_P3379886	5.86E-06	0.93119124	FGF2	fibroblast growth factor 2 (basic)
A_33_P3345643	5.86E-06	1.03434845		
A_23_P131375	5.87E-06	-0.72990754	PQLC3	PQ loop repeat containing 3
A_24_P364970	5.90E-06	0.66168988	DHX33	DEAH (Asp-Glu-Ala-His) box polypeptide 33
A_33_P3324298	5.91E-06	-0.55989432	LOC729995	hCG1817208
A_33_P3230663	5.92E-06	0.3717479	LOC100130232	LP2209
A_23_P361841	5.94E-06	0.26062335	RIMKLB	ribosomal modification protein rimK-like family member B
A_23_P204967	5.94E-06	-0.74591526	MPHOSPH8	M-phase phosphoprotein 8
A_33_P3396379	5.96E-06	1.36458543		
A_23_P160968	5.96E-06	0.88765205	LAMC2	laminin, gamma 2
A_23_P94800	5.96E-06	-1.14430933	S100A4	S100 calcium binding protein A4
A_24_P37409	5.97E-06	0.70442753	DUSP2	dual specificity phosphatase 2
A_24_P296568	5.97E-06	0.56703999	CBX1	chromobox homolog 1
A_24_P258051	5.99E-06	0.65673165	MASTL	microtubule associated serine/threonine kinase-like
A_33_P3216955	5.99E-06	-0.56501051	ANAPC16	anaphase promoting complex subunit 16
A_23_P72025	6.00E-06	-0.62652271	SLC25A20	solute carrier family 25 (carnitine/acylcarnitine translocase), member 20
A_23_P420417	6.00E-06	-0.40137221	TLCD1	TLC domain containing 1
A_23_P97423	6.01E-06	1.23267294	UBE2Q1	ubiquitin-conjugating enzyme E2Q family member 1
A_23_P63153	6.02E-06	1.05626763	DDX20	DEAD (Asp-Glu-Ala-Asp) box polypeptide 20
A_23_P111981	6.03E-06	-1.20202987	LYNX1	Ly6/neurotoxin 1
A_33_P3338121	6.03E-06	-1.47405425	LAMB3	laminin, beta 3
A_24_P830690	6.04E-06	1.43381506	PDPK1	3-phosphoinositide dependent protein kinase-1
A_33_P3293529	6.05E-06	1.17335197		
A_23_P51787	6.08E-06	0.2320213	AMPD1	adenosine monophosphate deaminase 1
A_33_P3277988	6.09E-06	-0.56189378	IFNAR1	interferon (alpha, beta and omega) receptor 1

A_24_P32215	6.15E-06	0.38153486		
A_23_P76914	6.17E-06	-0.96257717	SIX1	SIX homeobox 1
A_23_P139786	6.18E-06	1.67518364	OASL	2'-5'-oligoadenylate synthetase-like
A_33_P3401826	6.20E-06	2.4018528	CMPK2	cytidine monophosphate (UMP-CMP) kinase 2, mitochondrial
A_23_P115838	6.21E-06	0.84243801	C10orf12	chromosome 10 open reading frame 12
A_33_P3353581	6.22E-06	-1.12893904	IGBP1	immunoglobulin (CD79A) binding protein 1
A_23_P150950	6.22E-06	-0.63993358	ZFC3H1	zinc finger, C3H1-type containing
A_32_P2738	6.23E-06	-0.95706708	TCTN3	tectonic family member 3
A_23_P250516	6.23E-06	0.54985307		
A_23_P75380	6.23E-06	-0.52891549	AIP	aryl hydrocarbon receptor interacting protein
A_33_P3215239	6.27E-06	0.62044651	KIF20B	kinesin family member 20B
A_23_P354827	6.28E-06	0.7800943		
A_33_P3266530	6.30E-06	0.78471442	DUS1L	dihydrouridine synthase 1-like (<i>S. cerevisiae</i>)
A_23_P392126	6.31E-06	-1.23898583	C17orf108	chromosome 17 open reading frame 108
A_23_P8981	6.32E-06	-1.29180688	STAR	steroidogenic acute regulatory protein
A_33_P3282556	6.33E-06	-1.00169584	TMEM204	transmembrane protein 204
A_33_P3239759	6.36E-06	1.05345608	PPAN-P2RY11	PPAN-P2RY11 readthrough
A_32_P66881	6.37E-06	0.69148832	TLR4	toll-like receptor 4
A_33_P3234020	6.37E-06	2.69361115	IGDCC3	immunoglobulin superfamily, DCC subclass, member 3
A_24_P316489	6.39E-06	-0.70668517	NDUFA10	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 10, 42kDa
A_23_P205549	6.39E-06	0.87520579	MAX	MYC associated factor X
A_23_P84576	6.40E-06	-0.8325861	ANTXR1	anthrax toxin receptor 1
A_33_P3335137	6.40E-06	0.5438399	ATG4B	ATG4 autophagy related 4 homolog B (<i>S. cerevisiae</i>)
A_33_P3353672	6.42E-06	0.9438524	RAB28	RAB28, member RAS oncogene family
A_23_P123193	6.42E-06	0.92916305	ACTR3B	ARP3 actin-related protein 3 homolog B (yeast)
A_33_P3305117	6.42E-06	1.20431426		
A_24_P602871	6.42E-06	-0.39259661	SAMD5	sterile alpha motif domain containing 5
A_24_P392110	6.45E-06	2.44747353	PSG8	pregnancy specific beta-1-glycoprotein 8
A_23_P89550	6.46E-06	1.23041875	NLRP1	NLR family, pyrin domain containing 1
A_23_P157051	6.47E-06	-0.57982948	AP4M1	adaptor-related protein complex 4, mu 1 subunit
A_23_P36266	6.47E-06	0.67179195	PDHX	pyruvate dehydrogenase complex, component X
A_32_P120791	6.48E-06	-0.28849561	LOC727916	uncharacterized LOC727916
A_24_P277955	6.48E-06	-1.19940966	FIS1	fission 1 (mitochondrial outer membrane) homolog (<i>S. cerevisiae</i>)
A_33_P3343428	6.48E-06	-0.3732395	TRAF3IP2	TRAF3 interacting protein 2
A_33_P3491294	6.54E-06	-0.57863037	AMDHD2	amidohydrolase domain containing 2
A_23_P171255	6.54E-06	-0.93975032	IGBP1	immunoglobulin (CD79A) binding protein 1
A_24_P398064	6.54E-06	-0.8384264	RGP1	RGP1 retrograde golgi transport homolog (<i>S. cerevisiae</i>)

A_33_P3259902	6.54E-06	-0.91412546		
A_23_P408094	6.54E-06	0.45527294	MXD1	MAX dimerization protein 1
A_23_P28598	6.59E-06	0.61505147	DLX2	distal-less homeobox 2
A_23_P41025	6.59E-06	1.09676601	GNL3	guanine nucleotide binding protein-like 3 (nucleolar)
A_23_P205529	6.59E-06	0.71336192	METTL17	methyltransferase like 17
A_33_P3412900	6.64E-06	-0.9243838	CBLN3	cerebellin 3 precursor
A_33_P3219939	6.67E-06	0.49171267	CUBN	cubilin (intrinsic factor-cobalamin receptor)
A_33_P3210857	6.68E-06	0.28598536		
A_33_P3414868	6.68E-06	0.35195632		
A_23_P94275	6.68E-06	0.30241001	DKK4	dickkopf homolog 4 (<i>Xenopus laevis</i>)
A_24_P294124	6.68E-06	0.83837195	SERTAD2	SERTA domain containing 2
A_33_P3368500	6.68E-06	-0.79856243	IFT52	intraflagellar transport 52 homolog (<i>Chlamydomonas</i>)
A_23_P500400	6.69E-06	-0.25167844	ABCA6	ATP-binding cassette, sub-family A (ABC1), member 6
A_33_P3213432	6.69E-06	-0.88230746	ARMC10	armadillo repeat containing 10
A_23_P416212	6.69E-06	2.11726208	HSPB9	heat shock protein, alpha-crystallin-related, B9
A_24_P115621	6.69E-06	-0.94972132	EIF4EBP2	eukaryotic translation initiation factor 4E binding protein 2
A_23_P11744	6.69E-06	0.70068293	WASH1	WAS protein family homolog 1
A_24_P484797	6.74E-06	1.03252018	CIDECP	cell death-inducing DFFA-like effector c pseudogene
A_23_P1280	6.74E-06	-0.66218369	ASCC1	activating signal cointegrator 1 complex subunit 1
A_33_P3264926	6.76E-06	1.09984928	SAMD4A	sterile alpha motif domain containing 4A
A_23_P26895	6.77E-06	1.26836578	TUBD1	tubulin, delta 1
A_23_P112801	6.78E-06	-1.04502881	CHP	calcium binding protein P22
A_24_P49260	6.79E-06	0.62917685	SPTLC3	serine palmitoyltransferase, long chain base subunit 3
A_24_P31003	6.85E-06	0.42692283	GFER	growth factor, augmenter of liver regeneration
A_33_P3291118	6.86E-06	0.93598793	LRRC37B	leucine rich repeat containing 37B
A_23_P31124	6.87E-06	1.08875862	COL21A1	collagen, type XXI, alpha 1
A_23_P80974	6.89E-06	-0.42576734	TDO2	tryptophan 2,3-dioxygenase
A_33_P3241646	6.90E-06	0.73736672	PANK3	pantothenate kinase 3
A_24_P155791	6.91E-06	0.57355085	ASB7	ankyrin repeat and SOCS box containing 7
A_33_P3466016	6.93E-06	1.4904576	LOC200830	uncharacterized LOC200830
A_23_P325661	6.97E-06	0.70903792	ZNF134	zinc finger protein 134
A_24_P355876	6.97E-06	-0.67180872	TMBIM6	transmembrane BAX inhibitor motif containing 6
A_24_P166094	6.97E-06	-0.75949786	ARFIP1	ADP-ribosylation factor interacting protein 1
A_24_P146211	7.00E-06	1.11252549	HIST1H2BD	histone cluster 1, H2bd
A_23_P31755	7.00E-06	-0.51818862	CRH	corticotropin releasing hormone
A_23_P134426	7.03E-06	-1.31916327	GPNMB	glycoprotein (transmembrane) nmb
A_33_P3385656	7.03E-06	1.65253726	FNDC9	fibronectin type III domain containing 9

A_23_P253350	7.03E-06	-0.88557457	C8orf4	chromosome 8 open reading frame 4
A_33_P3347147	7.05E-06	0.84483383	SUPT3H	suppressor of Ty 3 homolog (S. cerevisiae)
A_33_P3312743	7.06E-06	0.85296285	KRTAP4-3	keratin associated protein 4-3
A_33_P3386181	7.09E-06	0.37699534	ZFP64	zinc finger protein 64 homolog (mouse)
A_23_P89799	7.09E-06	-0.7122283	ACAA2	acetyl-CoA acyltransferase 2
A_33_P3234989	7.09E-06	-0.744414	IFT81	intraflagellar transport 81 homolog (Chlamydomonas)
A_33_P3296862	7.12E-06	-1.13349942	C16orf89	chromosome 16 open reading frame 89
A_23_P19210	7.12E-06	1.05267953	RPF2	ribosome production factor 2 homolog (S. cerevisiae)
A_23_P213369	7.13E-06	-0.44209393	KIAA0141	KIAA0141
A_24_P296070	7.15E-06	1.18800332	COG3	component of oligomeric golgi complex 3
A_33_P3590279	7.16E-06	-0.46825766		
A_23_P102611	7.17E-06	-0.78114771	WISP2	WNT1 inducible signaling pathway protein 2
A_33_P3327290	7.19E-06	0.20034203	DCAF4L1	DDB1 and CUL4 associated factor 4-like 1
A_23_P200298	7.20E-06	-0.54330659	AGL	amylase-like 1, 6-glucosidase, 4-alpha-glucanotransferase
A_23_P166716	7.24E-06	0.46258801	RG9MTD1	RNA (guanine-9-) methyltransferase domain containing 1
A_23_P37441	7.26E-06	-0.92815341	B2M	beta-2-microglobulin
A_24_P941268	7.32E-06	-0.71764103	CA5B	carbonic anhydrase VB, mitochondrial
A_24_P413669	7.33E-06	0.2448244	PFKFB2	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2
A_33_P3425356	7.34E-06	0.68527506	ARMC8	armadillo repeat containing 8
A_23_P6151	7.36E-06	1.20351782	PLAGL2	pleiomorphic adenoma gene-like 2
A_23_P37327	7.36E-06	-0.63249614	ABCD4	ATP-binding cassette, sub-family D (ALD), member 4
A_23_P164468	7.38E-06	1.31390346	ADNP2	ADNP homeobox 2
A_24_P306964	7.49E-06	-0.87669044		
A_23_P45940	7.50E-06	0.68798808	TFB2M	transcription factor B2, mitochondrial
A_33_P3749100	7.50E-06	0.21502728	LINC00486	long intergenic non-protein coding RNA 486
A_33_P3229527	7.50E-06	-0.77990238		
A_33_P3462960	7.50E-06	0.59666764	DNAJC3	DnaJ (Hsp40) homolog, subfamily C, member 3
A_23_P47885	7.51E-06	-1.14872699	LRIG3	leucine-rich repeats and immunoglobulin-like domains 3
A_23_P159237	7.51E-06	0.238423	GPR20	G protein-coupled receptor 20
A_24_P255384	7.51E-06	-0.9485527		
A_24_P237757	7.52E-06	-0.75141941	ZMYM2	zinc finger, MYM-type 2
A_23_P376799	7.52E-06	1.19343835	FAM21C	family with sequence similarity 21, member C
A_23_P164958	7.52E-06	-0.46135468	CCDC8	coiled-coil domain containing 8
A_23_P58082	7.52E-06	-1.32473551	CCDC80	coiled-coil domain containing 80
A_33_P3244803	7.54E-06	-1.48594751	ACOX1	acyl-CoA oxidase 1, palmitoyl
A_24_P49106	7.57E-06	0.80908207	TCEAL7	transcription elongation factor A (SII)-like 7
A_23_P109345	7.61E-06	-0.75196814	PTTG1IP	pituitary tumor-transforming 1 interacting protein

A_23_P392476	7.61E-06	0.55883676	AKD1	adenylate kinase domain containing 1
A_23_P82868	7.63E-06	-1.51460541	PLAT	plasminogen activator, tissue
A_23_P141847	7.64E-06	0.71866498	UBE2M	ubiquitin-conjugating enzyme E2M
A_33_P3224070	7.67E-06	0.70066735	CSRNP1	cysteine-serine-rich nuclear protein 1
A_33_P3239614	7.67E-06	1.55159197	IYD	iodotyrosine deiodinase
A_24_P230938	7.68E-06	-0.69137032	MORN4	MORN repeat containing 4
A_23_P67771	7.70E-06	0.62874533	BARD1	BRCA1 associated RING domain 1
A_33_P3308949	7.70E-06	-0.39965582	DBT	dihydrolipoamide branched chain transacylase E2
A_33_P3371341	7.70E-06	0.64807034	FAM66C	family with sequence similarity 66, member C
A_33_P3257297	7.71E-06	0.34369124	CCDC147	coiled-coil domain containing 147
A_33_P3390570	7.77E-06	0.79875529	MLL	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila)
A_24_P303594	7.77E-06	0.63974101	ACTR3B	ARP3 actin-related protein 3 homolog B (yeast)
A_23_P421401	7.80E-06	-0.88139569	PDGFRB	platelet-derived growth factor receptor, beta polypeptide
A_23_P250948	7.83E-06	0.66806461	BRPF1	bromodomain and PHD finger containing, 1
A_23_P149259	7.83E-06	0.66081461	TMEM79	transmembrane protein 79
A_33_P3339143	7.83E-06	0.62775642	ARL13A	ADP-ribosylation factor-like 13A
A_33_P3298139	7.83E-06	0.88337168	CRLF2	cytokine receptor-like factor 2
A_33_P3266444	7.83E-06	-0.33357706	MRPS25	mitochondrial ribosomal protein S25
A_23_P86653	7.86E-06	-1.09965325	SRGN	serglycin
A_33_P3407985	7.87E-06	0.25195556	TMEM99	transmembrane protein 99
A_24_P294982	7.88E-06	0.72718613	VTA1	Vps20-associated 1 homolog (<i>S. cerevisiae</i>)
A_32_P48615	7.89E-06	-1.11286243		
A_33_P3348802	7.91E-06	-0.55987222		
A_33_P3570223	7.93E-06	-0.44564766	LOC644961	actin, beta pseudogene
A_23_P339309	7.93E-06	0.56305241	LIN52	lin-52 homolog (<i>C. elegans</i>)
A_23_P104942	7.93E-06	0.65415515	TMX2	thioredoxin-related transmembrane protein 2
A_23_P351215	7.93E-06	1.06137529	SKIL	SKI-like oncogene
A_33_P3342992	7.98E-06	-0.60299838	UBE2Q2P2	ubiquitin-conjugating enzyme E2Q family member 2 pseudogene 2
A_33_P3241334	7.99E-06	0.80915536	PSG1	pregnancy specific beta-1-glycoprotein 1
A_23_P345928	8.04E-06	-0.52744945	C12orf26	chromosome 12 open reading frame 26
A_24_P403150	8.16E-06	0.43745476	FLJ34503	uncharacterized FLJ34503
A_23_P208389	8.19E-06	1.00645175	AXL	AXL receptor tyrosine kinase
A_33_P3867534	8.21E-06	0.66134779	MCM10	minichromosome maintenance complex component 10
A_32_P189781	8.23E-06	0.29835906	C14orf34	chromosome 14 open reading frame 34
A_23_P121196	8.23E-06	-0.57665748	TMEM43	transmembrane protein 43
A_23_P163458	8.23E-06	-0.37578162	EHD4	EH-domain containing 4
A_24_P104091	8.23E-06	1.47030544	ORAOV1	oral cancer overexpressed 1

A_24_P233850	8.23E-06	-1.16583542	SDHC	succinate dehydrogenase complex, subunit C, integral membrane protein, 15kDa
A_23_P115261	8.26E-06	-0.94522893	AGT	angiotensinogen (serpin peptidase inhibitor, clade A, member 8)
A_23_P317347	8.26E-06	0.62515346	ESCO1	establishment of cohesion 1 homolog 1 (<i>S. cerevisiae</i>)
A_33_P3262495	8.27E-06	-1.28910445	ZNF503	zinc finger protein 503
A_33_P3357818	8.34E-06	0.22022713	HTR1D	5-hydroxytryptamine (serotonin) receptor 1D
A_33_P3255226	8.34E-06	0.82294334		
A_23_P70213	8.37E-06	0.55979524	APC	adenomatous polyposis coli
A_33_P3310293	8.37E-06	-0.37875151	PKIG	protein kinase (cAMP-dependent, catalytic) inhibitor gamma
A_23_P319783	8.43E-06	0.39184763	SPAG17	sperm associated antigen 17
A_23_P218770	8.43E-06	-0.83192372	RAC2	ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2)
A_33_P3336514	8.43E-06	0.76151617		
A_33_P3239087	8.44E-06	0.36810364	FAM87B	family with sequence similarity 87, member B
A_33_P3392077	8.45E-06	-1.43860958	TP53I3	tumor protein p53 inducible protein 3
A_24_P168574	8.45E-06	0.86339101	GNAS	GNAS complex locus
A_33_P3294921	8.47E-06	-0.64437361	PRUNE2	prune homolog 2 (<i>Drosophila</i>)
A_23_P36183	8.50E-06	1.05232378	GTF2H1	general transcription factor IIH, polypeptide 1, 62kDa
A_33_P3396389	8.51E-06	-0.93191231	IL1R1	interleukin 1 receptor, type I
A_33_P3409422	8.53E-06	0.32052878		
A_23_P145357	8.53E-06	0.82547174	BAK1	BCL2-antagonist/killer 1
A_23_P255884	8.54E-06	-0.591958	GSN	gelsolin
A_23_P41380	8.56E-06	1.01391569	ABCE1	ATP-binding cassette, sub-family E (OABP), member 1
A_23_P202104	8.56E-06	0.804025	PPIF	peptidylprolyl isomerase F
A_23_P56938	8.56E-06	0.50819639	REL	v-rel reticuloendotheliosis viral oncogene homolog (avian)
A_33_P3277096	8.60E-06	1.05507571		
A_33_P3350488	8.60E-06	0.69852635	NUSAP1	nucleolar and spindle associated protein 1
A_23_P342600	8.61E-06	0.29724445	STK35	serine/threonine kinase 35
A_23_P382188	8.63E-06	-0.30571681	STAP2	signal transducing adaptor family member 2
A_23_P19712	8.63E-06	0.97871314	GMNN	geminin, DNA replication inhibitor
A_33_P3290567	8.64E-06	1.03029393	WEE1	WEE1 homolog (<i>S. pombe</i>)
A_23_P63026	8.64E-06	0.62630851	LGALS8	lectin, galactoside-binding, soluble, 8
A_33_P3243554	8.65E-06	-0.45364374		6-Sep septin 6
A_23_P34007	8.68E-06	0.24213573	PPP1R2P9	protein phosphatase 1, regulatory (inhibitor) subunit 2 pseudogene 9
A_33_P3388312	8.68E-06	-0.96569602	SKAP2	src kinase associated phosphoprotein 2
A_23_P88848	8.70E-06	0.7444569	DUS2L	dihydrouridine synthase 2-like, SMM1 homolog (<i>S. cerevisiae</i>)
A_33_P3212555	8.72E-06	-0.92618671	PROS1	protein S (alpha)
A_24_P341504	8.75E-06	-0.30015234	RNPC3	RNA-binding region (RNP1, RRM) containing 3
A_23_P253412	8.77E-06	-1.01604796	MRPL50	mitochondrial ribosomal protein L50

A_23_P48561	8.77E-06	-0.63363992	EFS	embryonal Fyn-associated substrate
A_33_P3317163	8.77E-06	0.20121901	TFAP2B	transcription factor AP-2 beta (activating enhancer binding protein 2 beta)
A_33_P3272291	8.81E-06	-0.79564739	AKR1C4	dehydrogenase, type I; dihydrodiol dehydrogenase 4)
A_33_P3249976	8.81E-06	-0.4977235	JAM2	junctional adhesion molecule 2
A_24_P109214	8.81E-06	-0.8731431	APOC1	apolipoprotein C-I
A_33_P3230073	8.82E-06	-0.91975623		
A_24_P113144	8.82E-06	0.37363697	ATAD5	ATPase family, AAA domain containing 5
A_33_P3348061	8.83E-06	0.28251204	CABP7	calcium binding protein 7
A_32_P117354	8.86E-06	-0.69123185	LIMCH1	LIM and calponin homology domains 1
A_23_P12746	8.87E-06	1.61900294	MRC1	mannose receptor, C type 1
A_23_P28507	8.89E-06	1.49658152	MGAT4A	mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase, isozyme A
A_33_P3330323	8.89E-06	0.94396633	MGA	MAX gene associated
A_24_P304154	8.91E-06	-0.81815709	AMPD3	adenosine monophosphate deaminase 3
A_24_P272073	8.91E-06	0.76031502		
A_33_P3269578	8.95E-06	1.21452736	PBRM1	polybromo 1
A_23_P397455	8.96E-06	0.59889184	ACVR1C	activin A receptor, type IC
A_23_P352266	8.96E-06	0.22037147	BCL2	B-cell CLL/lymphoma 2
A_23_P106405	8.96E-06	-1.15778495	NDN	necdin homolog (mouse)
A_23_P128598	9.01E-06	-0.80625527	TUBA3C	tubulin, alpha 3c
A_33_P3351207	9.01E-06	-0.55954149	MGC21881	uncharacterized locus MGC21881
A_32_P109522	9.07E-06	0.73132858	ZUFSP	zinc finger with UFM1-specific peptidase domain
A_24_P208909	9.07E-06	-0.83528402	TRIM2	tripartite motif containing 2
A_24_P132624	9.07E-06	-0.32612538	NIPSNAP3B	nipsnap homolog 3B (C. elegans)
A_24_P252846	9.07E-06	-0.9546588	C11orf74	chromosome 11 open reading frame 74
A_33_P3387300	9.07E-06	-0.8748053	FXR1	fragile X mental retardation, autosomal homolog 1
A_32_P26969	9.09E-06	-0.8616014	ERICH1	glutamate-rich 1
A_24_P88800	9.09E-06	-0.78182872	COX7A2L	cytochrome c oxidase subunit VIIa polypeptide 2 like
A_23_P42975	9.11E-06	-0.76238916	PRKAR2B	protein kinase, cAMP-dependent, regulatory, type II, beta
A_33_P3347291	9.11E-06	-1.34625142	INMT	indolethylamine N-methyltransferase
A_24_P221485	9.12E-06	-0.65903054		
A_23_P391725	9.15E-06	0.75586578	DR1	down-regulator of transcription 1, TBP-binding (negative cofactor 2)
A_33_P3406072	9.16E-06	0.18824923	FRMD3	FERM domain containing 3
A_33_P3229246	9.16E-06	0.42291755	HIST2H2BE	histone cluster 2, H2be
A_23_P111288	9.16E-06	-0.82777139	TMEM14C	transmembrane protein 14C
A_23_P36157	9.16E-06	0.58037371	WDR74	WD repeat domain 74
A_23_P121695	9.16E-06	0.17525033	CXCL13	chemokine (C-X-C motif) ligand 13

A_23_P134663	9.16E-06	-0.7080753	BAALC	brain and acute leukemia, cytoplasmic
A_23_P165727	9.21E-06	0.5045133	MSTN	myostatin
A_23_P304897	9.21E-06	-1.44769551	BDKRB2	bradykinin receptor B2
A_23_P78762	9.22E-06	-0.5491255	HSD17B14	hydroxysteroid (17-beta) dehydrogenase 14
A_33_P3383034	9.22E-06	1.05348458	UBA2	ubiquitin-like modifier activating enzyme 2
A_32_P141262	9.22E-06	0.84437955	CNOT7	CCR4-NOT transcription complex, subunit 7
A_23_P207367	9.22E-06	-0.54826701	STAT5A	signal transducer and activator of transcription 5A
A_32_P228268	9.23E-06	0.64299532	DNAH10	dynein, axonemal, heavy chain 10
A_23_P42768	9.23E-06	0.49998174	SRRM3	serine/arginine repetitive matrix 3
A_33_P3419383	9.24E-06	0.30334438	PDLIM3	PDZ and LIM domain 3
A_23_P67725	9.24E-06	1.07046681	LMNB2	lamin B2
A_24_P84898	9.33E-06	0.81162444	FEN1	flap structure-specific endonuclease 1
A_33_P3321781	9.39E-06	1.00054202	FLJ44342	uncharacterized LOC645460
A_23_P24176	9.39E-06	1.14970725	CCNJ	cyclin J
A_33_P3343452	9.39E-06	0.24787564	ANKRD30B	ankyrin repeat domain 30B
A_23_P167997	9.44E-06	1.29696147	HIST1H2BG	histone cluster 1, H2bg
A_33_P3242873	9.44E-06	-0.75114953	BRP44L	brain protein 44-like
A_33_P3289441	9.44E-06	-0.22112478	LOC100131048	uncharacterized LOC100131048
A_24_P380330	9.47E-06	0.96569613	PANK3	pantothenate kinase 3
A_33_P3332130	9.50E-06	-0.83691059	PGRMC1	progesterone receptor membrane component 1
A_33_P3338968	9.52E-06	-1.71169721		
A_23_P215658	9.52E-06	0.79481153	TBRG4	transforming growth factor beta regulator 4
A_33_P3351982	9.52E-06	-0.86267866	COA5	cytochrome C oxidase assembly factor 5
A_23_P93464	9.52E-06	-0.30492	BCKDHB	branched chain keto acid dehydrogenase E1, beta polypeptide
A_23_P160546	9.53E-06	-1.2022625	FAM63A	family with sequence similarity 63, member A
A_23_P30547	9.54E-06	0.35642377	LCP2	lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte protein of 76kDa)
A_33_P3256033	9.54E-06	0.66177336	CBL	Cas-Br-M (murine) ecotropic retroviral transforming sequence
A_23_P170581	9.56E-06	0.81636076		
A_23_P487	9.60E-06	0.64692907	UCK2	uridine-cytidine kinase 2
A_23_P142750	9.61E-06	1.08854774	EIF2AK2	eukaryotic translation initiation factor 2-alpha kinase 2
A_32_P34387	9.62E-06	-0.38430762	SPATA7	spermatogenesis associated 7
A_23_P82523	9.62E-06	0.48621751	ABCB1	ATP-binding cassette, sub-family B (MDR/TAP), member 1
A_23_P32404	9.63E-06	1.19696425	ISG20	interferon stimulated exonuclease gene 20kDa
A_23_P93180	9.65E-06	1.09136251	HIST1H2BC	histone cluster 1, H2bc
A_24_P406060	9.66E-06	0.76950847	RNF144B	ring finger protein 144B
A_23_P203920	9.66E-06	-0.65577686	SSPN	sarcospan (Kras oncogene-associated gene)
A_33_P3382924	9.70E-06	-1.45749233	SPARC	secreted protein, acidic, cysteine-rich (osteonectin)

A_23_P385034	9.74E-06	0.74413296	E2F3	E2F transcription factor 3
A_23_P14124	9.77E-06	-1.35073807	RASL11A	RAS-like, family 11, member A
A_24_P681301	9.82E-06	-0.5552934	UBC	ubiquitin C
A_23_P127964	9.84E-06	-1.05738787	PRCP	prolylcarboxypeptidase (angiotensinase C)
A_23_P204702	9.84E-06	-1.21711608	TMBIM6	transmembrane BAX inhibitor motif containing 6
A_33_P3290089	9.84E-06	0.5994563	LOC100505585	uncharacterized LOC100505585
A_24_P41570	9.85E-06	0.81781001	H2AFZ	H2A histone family, member Z
A_33_P3301025	9.90E-06	-0.65893925	CPOX	coproporphyrinogen oxidase
A_23_P250294	9.90E-06	0.94676422	ABHD5	abhydrolase domain containing 5
A_23_P34396	9.92E-06	-1.19713548	C1orf63	chromosome 1 open reading frame 63
A_33_P3252441	9.93E-06	-0.62801454		
A_33_P3272823	9.99E-06	1.40286684	MAG	myelin associated glycoprotein
A_23_P110345	1.00E-05	1.26042989	CHIC2	cysteine-rich hydrophobic domain 2
A_33_P3264419	1.00E-05	1.42294035	YTHDF3	YTH domain family, member 3
A_23_P388670	1.01E-05	-1.29456923	LTA4H	leukotriene A4 hydrolase
A_23_P104438	1.01E-05	0.45374356	MYPN	myopalladin
A_23_P86252	1.01E-05	-0.56259521	PIGC	phosphatidylinositol glycan anchor biosynthesis, class C
A_23_P206510	1.01E-05	-0.88013227	GLG1	golgi glycoprotein 1
A_32_P153892	1.01E-05	0.94997348	TAF3	TAF3 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 140kDa
A_33_P3348752	1.01E-05	1.8873444	HSPH1	heat shock 105kDa/110kDa protein 1
A_23_P107653	1.01E-05	-0.58882435	ETFB	electron-transfer-flavoprotein, beta polypeptide
A_33_P3377199	1.01E-05	-0.86872781	PRDX1	peroxiredoxin 1
A_23_P99360	1.01E-05	-0.49003598	TRIM13	tripartite motif containing 13
A_23_P386364	1.02E-05	0.82556583	HDX	highly divergent homeobox
A_23_P342668	1.02E-05	1.75396818	AKAP17A	A kinase (PRKA) anchor protein 17A
A_23_P156784	1.02E-05	0.58284103	MCHR2	melanin-concentrating hormone receptor 2
A_23_P380917	1.02E-05	-0.89217545	SEC11A	SEC11 homolog A (<i>S. cerevisiae</i>)
A_23_P118516	1.02E-05	0.60346684	FAM18B1	family with sequence similarity 18, member B1
A_23_P163481	1.02E-05	0.72419497	BUB1B	budding uninhibited by benzimidazoles 1 homolog beta (yeast)
A_23_P422724	1.02E-05	-1.15406083	PPIC	peptidylprolyl isomerase C (cyclophilin C)
A_32_P229132	1.02E-05	1.55386875	FMN2	formin 2
A_24_P280873	1.03E-05	-1.3416837		
A_23_P11507	1.03E-05	1.23643903	ZZZ3	zinc finger, ZZ-type containing 3
A_23_P132417	1.03E-05	0.5108665	LSG1	large subunit GTPase 1 homolog (<i>S. cerevisiae</i>)
A_23_P106241	1.03E-05	0.91915639	TRIP11	thyroid hormone receptor interactor 11
A_23_P43164	1.03E-05	-1.12740325	SULF1	sulfatase 1
A_23_P171143	1.04E-05	-0.80257567	TSPAN6	tetraspanin 6

A_23_P41872	1.04E-05	1.52502365	B4GALT7	xylosylprotein beta 1,4-galactosyltransferase, polypeptide 7 (galactosyltransferase I)
A_23_P140035	1.04E-05	0.7470843	WBP4	WW domain binding protein 4 (formin binding protein 21)
A_24_P753161	1.04E-05	-0.4581301	BMPR2	bone morphogenetic protein receptor, type II (serine/threonine kinase)
A_33_P3280385	1.04E-05	-1.18960726	COL6A3	collagen, type VI, alpha 3
A_23_P27649	1.04E-05	0.80901374	ZNF433	zinc finger protein 433
A_24_P279797	1.04E-05	-0.7985005	MRI1	methylthioribose-1-phosphate isomerase homolog (<i>S. cerevisiae</i>)
A_23_P121011	1.04E-05	1.58609323	CSRNP1	cysteine-serine-rich nuclear protein 1
A_33_P3370751	1.04E-05	1.49493281	SMURF2	SMAD specific E3 ubiquitin protein ligase 2
A_33_P3353846	1.05E-05	1.34522574	TSPO2	translocator protein 2
A_23_P167818	1.05E-05	0.78519031	FAM184A	family with sequence similarity 184, member A
A_32_P182941	1.05E-05	-1.08907072	RPS3	ribosomal protein S3
A_33_P3335746	1.05E-05	0.55062918	SNAPC5	small nuclear RNA activating complex, polypeptide 5, 19kDa
A_23_P24004	1.05E-05	2.90947064	IFIT2	interferon-induced protein with tetratricopeptide repeats 2
A_23_P206441	1.05E-05	0.41025268	FANCA	Fanconi anemia, complementation group A
A_24_P238118	1.05E-05	0.62829214	PP12613	uncharacterized LOC100192379
A_24_P140608	1.05E-05	1.27026324	HBEGF	heparin-binding EGF-like growth factor
A_23_P99579	1.06E-05	-0.59434393	C14orf142	chromosome 14 open reading frame 142
A_24_P260101	1.06E-05	-0.84188459	MME	membrane metallo-endopeptidase
A_23_P11543	1.06E-05	-1.04593652	FUCA1	fucosidase, alpha-L- 1, tissue
A_33_P3357062	1.06E-05	0.68165592	DDX55	DEAD (Asp-Glu-Ala-Asp) box polypeptide 55
A_24_P280113	1.06E-05	-0.66513536	IL13RA1	interleukin 13 receptor, alpha 1
A_23_P29555	1.06E-05	-0.49719483	SEC13	SEC13 homolog (<i>S. cerevisiae</i>)
A_24_P387869	1.06E-05	0.45086654	PKN2	protein kinase N2
A_33_P3332438	1.07E-05	-0.88918805	C6orf72	chromosome 6 open reading frame 72
A_33_P3309984	1.07E-05	0.35112544	KHK	ketohexokinase (fructokinase)
A_32_P94160	1.07E-05	0.36047278	PRKAA2	protein kinase, AMP-activated, alpha 2 catalytic subunit
A_33_P3376154	1.07E-05	3.20365	LOC100292905	uncharacterized LOC100292905
A_23_P48835	1.07E-05	0.99451362	KIF23	kinesin family member 23
A_23_P1083	1.07E-05	1.62024499	GJA4	gap junction protein, alpha 4, 37kDa
A_24_P270033	1.07E-05	0.29056461	MPZL3	myelin protein zero-like 3
A_33_P3256303	1.07E-05	0.3972002	SELPLG	selectin P ligand
A_33_P3408898	1.07E-05	-1.30755972	C6orf226	chromosome 6 open reading frame 226
A_23_P84334	1.07E-05	-0.4689331	TMEM39A	transmembrane protein 39A
A_23_P60002	1.07E-05	-0.7743618	TTC35	tetratricopeptide repeat domain 35
A_23_P61531	1.07E-05	-0.90213756	GLB1	galactosidase, beta 1
A_23_P157038	1.07E-05	-0.84852406	CNPY4	canopy 4 homolog (zebrafish)
A_24_P942773	1.07E-05	0.80076261	SLMAP	sarcolemma associated protein

A_33_P3303542	1.08E-05	-0.90926484	SSC5D	scavenger receptor cysteine rich domain containing (5 domains)
A_24_P329924	1.08E-05	0.9667671	SIK3	SIK family kinase 3
A_23_P259955	1.08E-05	-0.72488918	GDF5	growth differentiation factor 5
A_23_P74344	1.08E-05	0.72959901	TADA1	transcriptional adaptor 1
A_24_P127928	1.08E-05	0.83108292	RAB3GAP2	RAB3 GTPase activating protein subunit 2 (non-catalytic)
A_23_P148785	1.08E-05	-0.36457025	SFT2D2	SFT2 domain containing 2
A_24_P357726	1.09E-05	1.91257696	PSG8	pregnancy specific beta-1-glycoprotein 8
A_24_P23258	1.09E-05	-0.54209987	GRAMD4	GRAM domain containing 4
A_23_P121637	1.09E-05	-0.81873131	PRSS12	protease, serine, 12 (neurotrypsin, motopsin)
A_33_P3304170	1.09E-05	0.37050274	PIK3CG	phosphoinositide-3-kinase, catalytic, gamma polypeptide
A_24_P16730	1.10E-05	-0.5956596	KIAA1715	KIAA1715
A_24_P55148	1.10E-05	1.25336169	HIST1H2BJ	histone cluster 1, H2bj
A_23_P409449	1.10E-05	0.2453362	TAL2	T-cell acute lymphocytic leukemia 2
A_23_P157620	1.10E-05	-0.45725065	FAM160B2	family with sequence similarity 160, member B2
A_23_P415643	1.10E-05	0.66030741	ZNF48	zinc finger protein 48
A_23_P85783	1.10E-05	-1.04774148	PHGDH	phosphoglycerate dehydrogenase
A_24_P72064	1.10E-05	-0.61655876	GHR	growth hormone receptor
A_33_P3289025	1.10E-05	0.65310094	FAM176A	family with sequence similarity 176, member A
A_33_P3313125	1.10E-05	0.29674556		
A_33_P3306163	1.10E-05	-0.52474865	LGALS3	lectin, galactoside-binding, soluble, 3
A_23_P359245	1.10E-05	1.30272065	MET	met proto-oncogene (hepatocyte growth factor receptor)
A_23_P69670	1.10E-05	-0.52427739	CNO	cappuccino homolog (mouse)
A_24_P344711	1.10E-05	0.56146608	AGPAT3	1-acylglycerol-3-phosphate O-acyltransferase 3
A_23_P343935	1.10E-05	0.69627442	EGLN1	egl nine homolog 1 (C. elegans)
A_23_P396858	1.10E-05	0.81982775	FZD8	frizzled family receptor 8
A_23_P27332	1.10E-05	0.45843828	TCF4	transcription factor 4
A_23_P12272	1.11E-05	0.38037099	PPP1R8	protein phosphatase 1, regulatory subunit 8
A_23_P103601	1.11E-05	-1.32887941	MAN1C1	mannosidase, alpha, class 1C, member 1
A_23_P380724	1.11E-05	2.06906586	FASTKD5	FAST kinase domains 5
A_23_P117225	1.11E-05	-0.53089121	ERCC5	excision repair cross-complementing rodent repair deficiency, complementation group 5
A_23_P34568	1.11E-05	0.81749212	ADPRHL2	ADP-ribosylhydrolase like 2
A_33_P3380762	1.11E-05	0.25787292	HSD52	uncharacterized LOC729467
A_33_P3236177	1.11E-05	-0.72074093	ANG	angiogenin, ribonuclease, RNase A family, 5
A_33_P3263061	1.11E-05	-1.10226044	AK3	adenylate kinase 3
A_33_P3288839	1.11E-05	-0.90095334	C14orf37	chromosome 14 open reading frame 37
A_24_P119201	1.11E-05	0.18117786	MBD2	methyl-CpG binding domain protein 2
A_33_P3307875	1.11E-05	-0.92070457	SPTSSA	serine palmitoyltransferase, small subunit A

A_33_P3410409	1.11E-05	-0.82656117	LAMP2	lysosomal-associated membrane protein 2
A_23_P20876	1.12E-05	0.41286327	PTPDC1	protein tyrosine phosphatase domain containing 1
A_33_P3301174	1.12E-05	0.85402831	TMED2	transmembrane emp24 domain trafficking protein 2
A_23_P18672	1.12E-05	1.406825	GBA3	glucosidase, beta, acid 3 (cytosolic)
A_33_P3334102	1.13E-05	0.52385142	ARHGAP27	Rho GTPase activating protein 27
A_33_P3215059	1.13E-05	-0.87815156	NSMCE1	non-SMC element 1 homolog (S. cerevisiae)
A_23_P9415	1.13E-05	-1.04385756	ACO1	aconitase 1, soluble
A_24_P212860	1.13E-05	0.56733136	C9orf156	chromosome 9 open reading frame 156
A_33_P3212395	1.13E-05	0.23340441	TMED11P	transmembrane emp24 protein transport domain containing 11, pseudogene
A_33_P3356525	1.13E-05	-0.51558741	FLJ45482	uncharacterized LOC645566
A_33_P3268564	1.15E-05	-0.33643833	NCK2	NCK adaptor protein 2
A_23_P82674	1.15E-05	-0.73446858	GBAS	glioblastoma amplified sequence
A_24_P319736	1.16E-05	-0.78116108	MEIS1	Meis homeobox 1
A_32_P141238	1.16E-05	0.49744606	ANO2	anoctamin 2
A_33_P3259557	1.16E-05	-1.57327522	LOC440104	1110012D08Rik pseudogene
A_23_P45871	1.17E-05	1.66576197	IFI44L	interferon-induced protein 44-like
A_33_P3372288	1.17E-05	0.87556602	ZNF81	zinc finger protein 81
A_33_P3406047	1.17E-05	1.15572052	NLRP4	NLR family, pyrin domain containing 4
A_33_P3384913	1.17E-05	0.20139864		
A_33_P3385870	1.17E-05	-1.23814199	CCNG2	cyclin G2
A_33_P3213459	1.17E-05	-0.42920994	FAM70B	family with sequence similarity 70, member B
A_33_P3269740	1.17E-05	0.41038139	FAM86B2	family with sequence similarity 86, member B2
A_33_P3334047	1.18E-05	0.62022878		
A_23_P105251	1.18E-05	0.68352156	GLI1	GLI family zinc finger 1
A_33_P3266928	1.18E-05	-0.23130627	LMTK3	lemur tyrosine kinase 3
A_33_P3511265	1.18E-05	-1.09776272	POSTN	periostin, osteoblast specific factor
A_33_P3391387	1.19E-05	1.46843935	LOC100268168	uncharacterized LOC100268168
A_23_P435002	1.19E-05	0.63866639	SRFBP1	serum response factor binding protein 1
A_33_P3330716	1.19E-05	0.86699369	INO80D	INO80 complex subunit D
A_23_P213247	1.20E-05	0.616507	FBXL5	F-box and leucine-rich repeat protein 5
A_24_P126406	1.20E-05	0.21226434	DNAH17	dynein, axonemal, heavy chain 17
A_23_P142322	1.20E-05	-1.07538109	CIRBP	cold inducible RNA binding protein
A_23_P308097	1.20E-05	0.71703008	PPP2CB	protein phosphatase 2, catalytic subunit, beta isozyme
A_24_P161914	1.21E-05	-0.54298857		
A_32_P210202	1.21E-05	1.72536744	E2F7	E2F transcription factor 7
A_33_P3402600	1.23E-05	-0.77108288		
A_23_P24633	1.23E-05	-0.57461841	THYN1	thymocyte nuclear protein 1

A_23_P259586	1.23E-05	0.93081271	TTK	TTK protein kinase
A_24_P143492	1.23E-05	-0.95582511	BCAS4	breast carcinoma amplified sequence 4
A_33_P3416563	1.23E-05	-0.89932097	AIG1	androgen-induced 1
A_23_P167367	1.23E-05	0.59723957	PITX2	paired-like homeodomain 2
A_23_P207600	1.23E-05	1.02011601	PSMD11	proteasome (prosome, macropain) 26S subunit, non-ATPase, 11
A_24_P7202	1.23E-05	-0.35528553	KIDINS220	kinase D-interacting substrate, 220kDa
A_23_P118834	1.23E-05	0.90399322	TOP2A	topoisomerase (DNA) II alpha 170kDa
A_24_P120115	1.23E-05	-0.60115275	CFLAR	CASP8 and FADD-like apoptosis regulator
A_24_P166613	1.24E-05	-0.70422197	EPDR1	ependymin related protein 1 (zebrafish)
A_33_P3313555	1.24E-05	0.97685551	PSPC1	paraspeckle component 1
A_23_P389897	1.24E-05	0.28393694	NGFR	nerve growth factor receptor
A_23_P122041	1.24E-05	1.2264284	PPP2CA	protein phosphatase 2, catalytic subunit, alpha isozyme
A_23_P133095	1.25E-05	1.68724629	RAPGEF2	Rap guanine nucleotide exchange factor (GEF) 2
A_33_P3298159	1.25E-05	-2.92823619	PTGDS	prostaglandin D2 synthase 21kDa (brain)
A_33_P3353791	1.25E-05	-0.44693803	ITGA1	integrin, alpha 1
A_24_P944144	1.25E-05	-0.58007739	DIDO1	death inducer-obliterator 1
A_23_P256231	1.26E-05	0.62887666	FBXO30	F-box protein 30
A_33_P3256685	1.27E-05	0.71167433	TTF2	transcription termination factor, RNA polymerase II
A_32_P116840	1.27E-05	0.51676945	CTAGE5	CTAGE family, member 5
A_23_P218706	1.28E-05	0.88313504	ZNF343	zinc finger protein 343
A_24_P648176	1.28E-05	1.59537931	LYRM5	LYR motif containing 5
A_24_P12539	1.28E-05	0.81493847	KBTBD2	kelch repeat and BTB (POZ) domain containing 2
A_23_P123732	1.28E-05	-0.44426081	C9orf103	chromosome 9 open reading frame 103
A_23_P103282	1.29E-05	-0.49586447	TMEM59	transmembrane protein 59
A_33_P3294404	1.29E-05	1.19053195	AKIRIN1	akirin 1
A_23_P346006	1.29E-05	-1.00163134	CCPG1	cell cycle progression 1
A_23_P29365	1.29E-05	0.75270409	RYBP	RING1 and YY1 binding protein
A_23_P14083	1.29E-05	-0.60161928	AMIGO2	adhesion molecule with Ig-like domain 2
A_23_P145289	1.29E-05	-0.53780256	GNL1	guanine nucleotide binding protein-like 1
A_33_P3301010	1.29E-05	0.54598305	SPIRE1	spire homolog 1 (Drosophila)
A_23_P2283	1.29E-05	0.33514519	TAC3	tachykinin 3
A_23_P99930	1.29E-05	0.52906249	TIPIN	TIMELESS interacting protein
A_24_P152968	1.30E-05	-0.52287901	AKR1C1	hydroxysteroid dehydrogenase)
A_23_P363831	1.30E-05	-0.58281739	FBXO3	F-box protein 3
A_32_P34	1.30E-05	-0.92373675	LOC100131581	uncharacterized LOC100131581
A_33_P3266873	1.30E-05	0.89106979	MSL1	male-specific lethal 1 homolog (Drosophila)

A_24_P940666	1.30E-05	0.80202306	MED1	mediator complex subunit 1
A_33_P3324805	1.30E-05	0.51965336	LOC100130345	cadherin-related family member 3-like
A_33_P3767927	1.30E-05	0.73853716	NR3C1	nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)
A_24_P93703	1.30E-05	-1.05229935	LOC440104	1110012D08Rik pseudogene
A_23_P139919	1.30E-05	0.65341449	CHST11	carbohydrate (chondroitin 4) sulfotransferase 11
A_33_P3352522	1.31E-05	-1.31360474	FLJ41484	uncharacterized LOC650669
A_23_P82351	1.31E-05	-0.72217962	BBS9	Bardet-Biedl syndrome 9
A_33_P3230478	1.31E-05	-1.79609157	C1S	complement component 1, s subcomponent
A_33_P3261167	1.31E-05	-1.35285391	GNS	glucosamine (N-acetyl)-6-sulfatase
A_23_P432034	1.31E-05	0.54182251	CCDC117	coiled-coil domain containing 117
A_33_P3242493	1.32E-05	-0.31388539	PIBF1	progesterone immunomodulatory binding factor 1
A_33_P3683076	1.32E-05	-0.98032513	MAGED2	melanoma antigen family D, 2
A_33_P3211513	1.32E-05	1.18457364	CLK1	CDC-like kinase 1
A_33_P3212456	1.32E-05	0.30919178	STX1A	syntaxin 1A (brain)
A_33_P3223759	1.33E-05	0.59786471	MED13	mediator complex subunit 13
A_23_P251660	1.33E-05	0.68426984	ABCF1	ATP-binding cassette, sub-family F (GCN20), member 1
A_24_P259922	1.33E-05	-1.06197984	LANCL1	LanC lantibiotic synthetase component C-like 1 (bacterial)
A_23_P113777	1.34E-05	-1.14475096	ITGBL1	integrin, beta-like 1 (with EGF-like repeat domains)
A_33_P3320538	1.34E-05	0.91706445	NUPL1	nucleoporin like 1
A_32_P101860	1.34E-05	-0.51193427		
A_24_P274640	1.34E-05	0.46328091	GTF2H2D	general transcription factor IIH, polypeptide 2D
A_23_P412392	1.34E-05	-0.579863	SEC22B	SEC22 vesicle trafficking protein homolog B (<i>S. cerevisiae</i>) (gene/pseudogene)
A_23_P48886	1.34E-05	-0.78661356	ADAM10	ADAM metallopeptidase domain 10
A_23_P123974	1.34E-05	0.92190121	DTYMK	deoxythymidylate kinase (thymidylate kinase)
A_24_P121846	1.35E-05	0.95490751	ZNF132	zinc finger protein 132
A_33_P3418833	1.35E-05	1.26351582	FLRT3	fibronectin leucine rich transmembrane protein 3
A_23_P45345	1.35E-05	-0.56718036	HTATSF1	HIV-1 Tat specific factor 1
A_33_P3400374	1.35E-05	1.79420864	PRIC285	peroxisomal proliferator-activated receptor A interacting complex 285
A_23_P66563	1.35E-05	0.42392738	SMG8	smg-8 homolog, nonsense mediated mRNA decay factor (<i>C. elegans</i>)
A_24_P188164	1.35E-05	0.23681335	SCAND3	SCAN domain containing 3
A_32_P119616	1.35E-05	-0.82461185	ETFA	electron-transfer-flavoprotein, alpha polypeptide
A_23_P125423	1.35E-05	-1.6920714	C1R	complement component 1, r subcomponent
A_23_P327519	1.35E-05	0.83668116	STARD4	StAR-related lipid transfer (START) domain containing 4
A_23_P161727	1.35E-05	-1.72931599	HSPB2	heat shock 27kDa protein 2
A_24_P227091	1.36E-05	0.76461729	KIF11	kinesin family member 11
A_33_P3333762	1.36E-05	0.35679722	LRRIQ4	leucine-rich repeats and IQ motif containing 4
A_23_P54540	1.36E-05	0.59538108	EIF2AK4	eukaryotic translation initiation factor 2 alpha kinase 4

A_24_P393958	1.36E-05	0.97118008	DNAJB4	DnaJ (Hsp40) homolog, subfamily B, member 4
A_23_P164737	1.37E-05	1.72537124	MED26	mediator complex subunit 26
A_33_P3352407	1.37E-05	-1.24166991		
A_33_P3332865	1.37E-05	-0.40346062	NPEPL1	aminopeptidase-like 1
A_24_P142442	1.37E-05	0.47273747	POLDIP2	polymerase (DNA-directed), delta interacting protein 2

Supplemental Table 3: Dataset 100509 from microvascular endothelial cells

ID	adj.P.Val	logFC	GENE_SYMBOL	GENE_NAME
A_23_P103476	9.99E-03	0.1308445	UBIAD1	UbiA prenyltransferase domain containing 1
A_33_P3371910	9.99E-03	-0.2843951	HNRPLL	heterogeneous nuclear ribonucleoprotein L-like
A_33_P3296099	9.99E-03	-0.1497727		
A_23_P372994	9.99E-03	-0.4048399	H1FOO	H1 histone family, member O, oocyte-specific
A_33_P3323914	9.98E-03	0.1952242		
A_33_P3240763	9.98E-03	0.1699662		
A_23_P115064	9.97E-03	0.195737	CRABP2	cellular retinoic acid binding protein 2
A_33_P3295077	9.97E-03	0.167081		
A_23_P207154	9.96E-03	0.157374	CSH2	chorionic somatomammotropin hormone 2
A_24_P330822	9.95E-03	0.2223499	HNF1B	HNF1 homeobox B
A_33_P3337318	9.94E-03	0.2339405	HNRNPA2B1	heterogeneous nuclear ribonucleoprotein A2/B1
A_33_P3293511	9.94E-03	-0.1441629	KIAA1984	KIAA1984
A_33_P3326235	9.93E-03	-0.1744175	HBM	hemoglobin, mu
A_33_P3226620	9.93E-03	-0.2153893	AIPL1	aryl hydrocarbon receptor interacting protein-like 1
A_33_P3366584	9.93E-03	-0.1629272	OR56A4	olfactory receptor, family 56, subfamily A, member 4
A_33_P3231814	9.93E-03	-0.2136784		
A_33_P3647427	9.92E-03	-0.2232017	ZNF29P	zinc finger protein 29, pseudogene
A_33_P3255647	9.90E-03	0.236919	RPL36A-HNRNPH2	RPL36A-HNRNPH2 readthrough
A_33_P3751193	9.90E-03	0.1502685	LOC730139	uncharacterized LOC730139
A_23_P22994	9.90E-03	0.1890279	NFYC	nuclear transcription factor Y, gamma
A_33_P3381092	9.90E-03	-0.2195273	OR10W1	olfactory receptor, family 10, subfamily W, member 1
A_33_P3729002	9.88E-03	0.1845373	FLJ43903	uncharacterized LOC401471
A_23_P59426	9.88E-03	0.1673786	PAXIP1	PAX interacting (with transcription-activation domain) protein 1
A_23_P393025	9.87E-03	0.219419	SPATA4	spermatogenesis associated 4
A_33_P3323323	9.87E-03	-0.2009013	ZNF497	zinc finger protein 497
A_23_P419411	9.86E-03	-0.1283238	LOC100128175	uncharacterized LOC100128175
A_32_P159334	9.86E-03	-0.3033042	RECQL	RecQ protein-like (DNA helicase Q1-like)
A_23_P44867	9.85E-03	-0.1581906	AMBN	ameloblastin (enamel matrix protein)
A_33_P3422931	9.84E-03	0.1790914	MRPS34	mitochondrial ribosomal protein S34
A_33_P3234222	9.83E-03	0.3406138	TSPO2	translocator protein 2
A_23_P119042	9.82E-03	0.2391297	NKG7	natural killer cell group 7 sequence
A_24_P134850	9.82E-03	-0.1472105	PLEKHH1	pleckstrin homology domain containing, family H (with MyTH4 domain) member 1
A_23_P148255	9.82E-03	-0.1889346	MAGEA2B	melanoma antigen family A, 2B
A_33_P3446495	9.82E-03	-0.7628029	FRMD4B	FERM domain containing 4B
A_23_P34968	9.81E-03	0.1749973	SCNM1	sodium channel modifier 1
A_23_P44648	9.81E-03	0.1513188	ADAMTS12	ADAM metallopeptidase with thrombospondin type 1 motif, 12
A_23_P126917	9.81E-03	0.2241587	IGSF3	immunoglobulin superfamily, member 3
A_33_P3229067	9.81E-03	-0.2068451	HIST1H2BN	histone cluster 1, H2bn
A_33_P3315979	9.81E-03	-0.1699066	OR4Q3	olfactory receptor, family 4, subfamily Q, member 3

A_33_P3418394	9.81E-03	-0.4159867	ATG12	ATG12 autophagy related 12 homolog (<i>S. cerevisiae</i>)
A_33_P3264200	9.80E-03	-0.1620121	EGFEM1P	EGF-like and EMI domain containing 1, pseudogene
A_33_P3321711	9.80E-03	0.2214269	TOMM34	translocase of outer mitochondrial membrane 34
A_33_P3329028	9.79E-03	0.2037567	AKR1CL1	aldo-keto reductase family 1, member C-like 1
A_33_P3346032	9.79E-03	-0.1625081	LOC727808	uncharacterized LOC727808
A_23_P157022	9.79E-03	0.1813276	ZNF786	zinc finger protein 786
A_33_P3320808	9.78E-03	0.1842041	NDUFS7	NADH dehydrogenase (ubiquinone) Fe-S protein 7, 20kDa (NADH-coenzyme Q reductase)
A_33_P3313532	9.78E-03	-0.1727	ANKRD20A1	ankyrin repeat domain 20 family, member A1
A_33_P3356320	9.78E-03	-0.2482204	C17orf97	chromosome 17 open reading frame 97
A_33_P3262799	9.77E-03	-0.2590848	ZNF280D	zinc finger protein 280D
A_23_P314811	9.75E-03	-0.2089034	SLC10A4	solute carrier family 10 (sodium/bile acid cotransporter family), member 4
A_23_P138194	9.75E-03	0.1320583	NCF2	neutrophil cytosolic factor 2
A_33_P3641427	9.75E-03	-0.2051923	MYEF2	myelin expression factor 2
A_23_P373119	9.75E-03	0.1573521	HMGB3P1	high mobility group box 3 pseudogene 1
A_23_P334727	9.74E-03	0.158995	NRG4	neuregulin 4
A_33_P3270941	9.74E-03	-0.1490859	C1orf229	chromosome 1 open reading frame 229
A_23_P385835	9.72E-03	0.1602513	GPR27	G protein-coupled receptor 27
A_33_P3373046	9.72E-03	-0.1756702	ZNF772	zinc finger protein 772
A_33_P3403936	9.71E-03	-0.1378074	SERINC4	serine incorporator 4
A_33_P3284646	9.69E-03	0.1632771	FBXL6	F-box and leucine-rich repeat protein 6
A_33_P3343800	9.68E-03	0.2217993	TSSC1	tumor suppressing subtransferable candidate 1
A_24_P319715	9.66E-03	0.2383997	PDIA6	protein disulfide isomerase family A, member 6
A_32_P108254	9.65E-03	-0.1787397	FAM20A	family with sequence similarity 20, member A
A_23_P323898	9.62E-03	0.1553552	ZSCAN12	zinc finger and SCAN domain containing 12
A_33_P3351840	9.62E-03	0.1680084		
A_24_P415327	9.61E-03	-0.2725778	HPS1	Hermansky-Pudlak syndrome 1
A_33_P3334343	9.59E-03	-0.1561366	HERC2	hect domain and RLD 2
A_33_P3373805	9.56E-03	0.180921		
A_33_P3215529	9.56E-03	0.1644427	TJP2	tight junction protein 2 (zona occludens 2)
A_33_P3238230	9.56E-03	0.2277604	CDH6	cadherin 6, type 2, K-cadherin (fetal kidney)
A_24_P135753	9.56E-03	-0.2000979	PTPLB	protein tyrosine phosphatase-like (proline instead of catalytic arginine), member b
A_33_P3265606	9.56E-03	0.2687394	GCLM	glutamate-cysteine ligase, modifier subunit
A_24_P6305	9.54E-03	-0.2371359	RPL10	ribosomal protein L10
A_33_P3253420	9.54E-03	0.1805381		
A_23_P161481	9.52E-03	0.1521439	KIAA1274	KIAA1274
A_23_P501996	9.51E-03	-0.2051076	UBE2V1	ubiquitin-conjugating enzyme E2 variant 1
A_33_P3390950	9.51E-03	0.1818117	LOC100128338	uncharacterized LOC100128338
A_33_P3296721	9.49E-03	-0.15045		
A_33_P3257005	9.49E-03	0.1821231		
A_32_P74579	9.48E-03	-0.2369977	GAS2L2	growth arrest-specific 2 like 2
A_24_P361408	9.47E-03	-0.1641841	TTL6	tubulin tyrosine ligase-like family, member 6

A_23_P205875	9.47E-03	0.1664137	SCAND2	SCAN domain containing 2 pseudogene
A_24_P936010	9.46E-03	-0.5462656		
A_33_P3301095	9.46E-03	0.5668187		
A_23_P169050	9.46E-03	0.202524	MRPS28	mitochondrial ribosomal protein S28
A_24_P49183	9.44E-03	-0.3220935	EXD3	exonuclease 3'-5' domain containing 3
A_33_P3245824	9.42E-03	-0.1620265	PQLC1	PQ loop repeat containing 1
A_33_P3351622	9.41E-03	-0.1304044	MYO3A	myosin IIIA
A_24_P120537	9.41E-03	0.2900744	SH3RF2	SH3 domain containing ring finger 2
A_33_P3254956	9.40E-03	-0.1962856	DSCR6	Down syndrome critical region gene 6
A_33_P3419334	9.40E-03	0.184444	GNAI3	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 3
A_33_P3401846	9.40E-03	0.1743287		
A_33_P3240727	9.39E-03	0.1739927	ZNF697	zinc finger protein 697
A_23_P142421	9.38E-03	-0.254698	MLL4	myeloid/lymphoid or mixed-lineage leukemia 4
A_23_P210425	9.38E-03	-0.1986207	MYL9	myosin, light chain 9, regulatory
A_33_P3242778	9.37E-03	-0.2208543	LOC100129888	uncharacterized LOC100129888
A_24_P128727	9.36E-03	0.2215288		
A_23_P357929	9.35E-03	-0.1823723	SLC35D1	solute carrier family 35 (UDP-glucuronic acid/UDP-N-acetylgalactosamine dual transporter), member
A_33_P3351510	9.34E-03	0.1306878	IL1RAPL1	interleukin 1 receptor accessory protein-like 1
A_24_P255233	9.34E-03	-0.1513228	LOC100190938	uncharacterized LOC100190938
A_33_P3350972	9.34E-03	-0.1633611		
A_33_P3417865	9.33E-03	0.2351153	ZFP36L1	zinc finger protein 36, C3H type-like 1
A_24_P345993	9.33E-03	-0.2035486	CANX	calnexin
A_24_P231494	9.33E-03	0.2234334	DNPEP	aspartyl aminopeptidase
A_33_P3326423	9.32E-03	-0.1771341	POLL	polymerase (DNA directed), lambda
A_33_P3259943	9.32E-03	0.1636933		
A_32_P76720	9.31E-03	-0.2876777	NT5DC3	5'-nucleotidase domain containing 3
A_23_P100420	9.30E-03	0.1389307	ZCCHC14	zinc finger, CCHC domain containing 14
A_23_P36865	9.27E-03	0.2169077	CEP290	centrosomal protein 290kDa
A_33_P3408247	9.27E-03	0.314528		
A_23_P319557	9.27E-03	-0.1762909		
A_33_P3304754	9.26E-03	-0.2233383	TPP2	tripeptidyl peptidase II
A_33_P3223472	9.26E-03	0.1876495	AMZ2	archaelysin family metallopeptidase 2
A_23_P45999	9.20E-03	0.7955403	FBXO2	F-box protein 2
A_32_P113508	9.20E-03	0.2008035	ATG16L1	ATG16 autophagy related 16-like 1 (S. cerevisiae)
A_33_P3334877	9.20E-03	0.1601003	KRTAP10-4	keratin associated protein 10-4
A_23_P45726	9.20E-03	0.2256853	HNRNPR	heterogeneous nuclear ribonucleoprotein R
A_23_P8539	9.19E-03	0.2109459	DAGLB	diacylglycerol lipase, beta
A_23_P80643	9.19E-03	-0.1370562	SETMAR	SET domain and mariner transposase fusion gene
A_23_P93180	9.18E-03	0.2677923	HIST1H2BC	histone cluster 1, H2bc
A_33_P3331426	9.17E-03	0.5533459	FLJ37786	uncharacterized LOC642691

A_24_P18270	9.17E-03	0.2211454	UCMA	upper zone of growth plate and cartilage matrix associated
A_23_P60016	9.16E-03	0.148402	PTTG3P	pituitary tumor-transforming 3, pseudogene
A_33_P3302861	9.16E-03	-0.279684	RPGRIP1L	RPGRIP1-like
A_23_P57248	9.16E-03	0.1647632	C20orf173	chromosome 20 open reading frame 173
A_33_P3219840	9.15E-03	0.1459293	ZNRD1-AS1	ZNRD1 antisense RNA 1 (non-protein coding)
A_23_P38813	9.15E-03	0.1618074	ZNF320	zinc finger protein 320
A_33_P3264072	9.14E-03	-0.2093654	LOC100128593	uncharacterized LOC100128593
A_33_P3321205	9.14E-03	0.1803735	BEGAIN	brain-enriched guanylate kinase-associated homolog (rat)
A_24_P273157	9.14E-03	-0.1877241	OBSCN	obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF
A_33_P3255766	9.14E-03	-0.1620304	NIF3L1	NIF3 NGG1 interacting factor 3-like 1 (<i>S. cerevisiae</i>)
A_33_P3380642	9.14E-03	-0.1623314	FRAS1	Fraser syndrome 1
A_33_P3265429	9.13E-03	0.1490715	LOC100130849	phosphorylase kinase, gamma 1 (muscle) pseudogene
A_33_P3349776	9.12E-03	-0.2399483	LSM14B	LSM14B, SCD6 homolog B (<i>S. cerevisiae</i>)
A_23_P22765	9.12E-03	0.7566356	NDUFB11	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 11, 17.3kDa
A_23_P169003	9.10E-03	0.2251812	SH2D4A	SH2 domain containing 4A
A_24_P233878	9.10E-03	-0.1999015	GDAP2	ganglioside induced differentiation associated protein 2
A_23_P160881	9.09E-03	-0.3548445	SMPDL3B	sphingomyelin phosphodiesterase, acid-like 3B
A_33_P3283266	9.09E-03	0.2477423		
A_23_P68740	9.09E-03	-0.1390676	AIRE	autoimmune regulator
A_23_P76322	9.09E-03	-0.216085	PIK3C2G	phosphoinositide-3-kinase, class 2, gamma polypeptide
A_32_P140706	9.08E-03	0.182122	PMS2	PMS2 postmeiotic segregation increased 2 (<i>S. cerevisiae</i>)
A_33_P3209706	9.08E-03	0.2207666	ARGFX	arginine-fifty homeobox
A_33_P3310929	9.08E-03	0.3039692	ADAM12	ADAM metallopeptidase domain 12
A_33_P3230583	9.07E-03	-0.1904501	LOC100132352	FSHD region gene 1 pseudogene
A_33_P3317211	9.07E-03	-0.2060131	MECP2	methyl CpG binding protein 2 (Rett syndrome)
A_33_P3379396	9.07E-03	-0.1652589	KRT1	keratin 1
A_33_P3256113	9.06E-03	-0.2256114	GUSBP1	glucuronidase, beta pseudogene 1
A_24_P75718	9.06E-03	0.1862709		
A_24_P261734	9.04E-03	0.1797289	SLC38A1	solute carrier family 38, member 1
A_23_P73239	9.03E-03	-0.269267	NCKAP1	NCK-associated protein 1
A_33_P3306113	9.03E-03	0.1806944	JMJD4	jumonji domain containing 4
A_23_P158041	9.01E-03	-0.3289599	AQP7	aquaporin 7
A_33_P3396444	8.99E-03	-0.2539483	PTGR1	prostaglandin reductase 1
A_33_P3237760	8.99E-03	-0.1779415		
A_24_P237927	8.99E-03	0.1510145	FAM102B	family with sequence similarity 102, member B
A_23_P69637	8.98E-03	-0.2303942	OTUD4	OTU domain containing 4
A_33_P3421759	8.96E-03	0.2010677	SON	SON DNA binding protein
A_33_P3349597	8.95E-03	0.6254993		
A_24_P57170	8.93E-03	0.1478635	C19orf55	chromosome 19 open reading frame 55
A_23_P135132	8.91E-03	0.1808362	FRMD3	FERM domain containing 3
A_23_P105044	8.90E-03	0.2956729	MRPL23	mitochondrial ribosomal protein L23

A_33_P3277012	8.90E-03	0.2623401	DFFB	DNA fragmentation factor, 40kDa, beta polypeptide (caspase-activated DNase)
A_23_P200489	8.90E-03	-0.2182874	TMEM63A	transmembrane protein 63A
A_23_P169887	8.89E-03	0.1974896	GTF3C2	general transcription factor IIIC, polypeptide 2, beta 110kDa
A_23_P401691	8.87E-03	0.1327371	DPYSL5	dihydropyrimidinase-like 5
A_33_P3245623	8.86E-03	-0.184453		
A_23_P316410	8.86E-03	-0.139745	NOX1	NADPH oxidase 1
A_33_P3382553	8.86E-03	0.1800783		
A_23_P64630	8.85E-03	0.1700899	RNF26	ring finger protein 26
A_23_P162596	8.85E-03	-0.1924614	ACTR6	ARP6 actin-related protein 6 homolog (yeast)
A_23_P75867	8.85E-03	-0.1568039	OR10A4	olfactory receptor, family 10, subfamily A, member 4
A_24_P307827	8.85E-03	0.1758376	WHAMM	WAS protein homolog associated with actin, golgi membranes and microtubules
A_23_P323783	8.85E-03	-0.1995621	LSM14B	LSM14B, SCD6 homolog B (<i>S. cerevisiae</i>)
A_32_P412313	8.85E-03	0.1814528	ASB6	ankyrin repeat and SOCS box containing 6
A_33_P3271176	8.83E-03	0.2517439	LOC100130057	uncharacterized LOC100130057
A_33_P3398000	8.83E-03	-0.2212197	LOC100506866	uncharacterized LOC100506866
A_33_P3240679	8.81E-03	0.2385428	BRD3	bromodomain containing 3
A_23_P157600	8.81E-03	-0.1861683	DDHD2	DDHD domain containing 2
A_33_P3248586	8.81E-03	0.1863353	DUX4	double homeobox 4
A_24_P51118	8.81E-03	-0.2128967	MTAP	methylthioadenosine phosphorylase
A_23_P42935	8.80E-03	0.1567305	BRAF	v-raf murine sarcoma viral oncogene homolog B1
A_23_P62099	8.79E-03	0.1629557	MAGEC2	melanoma antigen family C, 2
A_24_P219156	8.78E-03	-0.2100121	RBM23	RNA binding motif protein 23
A_33_P3327479	8.75E-03	-0.4615574	ZDHHC3	zinc finger, DHHC-type containing 3
A_32_P182473	8.75E-03	0.1771734	ZNF625	zinc finger protein 625
A_24_P15062	8.73E-03	-0.1392946	ZNF490	zinc finger protein 490
A_33_P3260605	8.71E-03	0.2136888	CTNNA1	catenin (cadherin-associated protein), alpha-like 1
A_33_P3311353	8.70E-03	-0.2059994	C15orf55	chromosome 15 open reading frame 55
A_32_P52519	8.70E-03	0.1637537	OTOA	otoancorin
A_33_P3408722	8.69E-03	-0.169922	C9orf25	chromosome 9 open reading frame 25
A_33_P3285145	8.69E-03	-0.2567383	LOC100131826	TSSP3028
A_23_P99080	8.68E-03	-0.1622548	TAS2R13	taste receptor, type 2, member 13
A_23_P255714	8.65E-03	-0.1723598	IFT74	intraflagellar transport 74 homolog (<i>Chlamydomonas</i>)
A_33_P3258265	8.65E-03	0.1957976	SEMA6C	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6C
A_23_P48099	8.65E-03	0.2383053	NUP37	nucleoporin 37kDa
A_33_P3264404	8.65E-03	0.1311179	LOC100132593	uncharacterized LOC100132593
A_24_P333697	8.65E-03	-0.2163406	KLK13	kallikrein-related peptidase 13
A_23_P130856	8.64E-03	0.2597405	CEP89	centrosomal protein 89kDa
A_33_P3317336	8.64E-03	-0.1383386		
A_24_P941487	8.63E-03	0.1948286	ZNF761	zinc finger protein 761
A_23_P89455	8.58E-03	0.2180944	SLC35B1	solute carrier family 35, member B1
A_23_P80694	8.57E-03	-0.1799269	ACTR8	ARP8 actin-related protein 8 homolog (yeast)

A_33_P3388564	8.57E-03	0.1974543	CYB5D1	cytochrome b5 domain containing 1
A_33_P3400057	8.56E-03	-0.3270191	TCEANC	transcription elongation factor A (SII) N-terminal and central domain containing
A_23_P151046	8.56E-03	0.2630801	KLRC1	killer cell lectin-like receptor subfamily C, member 1
A_33_P3323544	8.55E-03	-0.2187215		
A_33_P3229789	8.55E-03	0.2591162		
A_33_P3286422	8.54E-03	0.1803716	FANCA	Fanconi anemia, complementation group A
A_23_P211878	8.54E-03	0.2646111	FLNB	filamin B, beta
A_23_P115780	8.54E-03	0.1921965	LRIT1	leucine-rich repeat, immunoglobulin-like and transmembrane domains 1
A_33_P3223106	8.54E-03	0.1384344	ZNF890P	zinc finger protein 890, pseudogene
A_33_P3598363	8.53E-03	0.1775716	LOC400662	uncharacterized LOC400662
A_33_P3221009	8.53E-03	-0.1903704		
A_23_P53324	8.52E-03	-0.2459247	OGFOD2	2-oxoglutarate and iron-dependent oxygenase domain containing 2
A_23_P146990	8.52E-03	-0.1844805	WWP1	WW domain containing E3 ubiquitin protein ligase 1
A_33_P3288700	8.52E-03	0.2000075	FAM207A	family with sequence similarity 207, member A
A_24_P93736	8.52E-03	-0.1777798	FLJ40292	uncharacterized LOC643210
A_23_P303155	8.52E-03	-0.2220031	TMEM87B	transmembrane protein 87B
A_33_P3298960	8.51E-03	-0.146983	KDELC2	KDEL (Lys-Asp-Glu-Leu) containing 2
A_33_P3338698	8.51E-03	-0.1760445	IHH	Indian hedgehog
A_23_P306956	8.51E-03	-0.2221152	ZNF566	zinc finger protein 566
A_33_P3258076	8.51E-03	-0.2068903	LOC100129581	uncharacterized LOC100129581
A_32_P420009	8.50E-03	0.2074741	ALS2CL	ALS2 C-terminal like
A_33_P3312985	8.50E-03	-0.1588992	C22orf37	chromosome 22 open reading frame 37
A_33_P3252221	8.50E-03	0.1805717	NRSN1	neurensin 1
A_23_P63178	8.49E-03	-0.1524912	TAF12	TAF12 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 20kDa
A_24_P394246	8.48E-03	0.2946868	SHISA5	shisa homolog 5 (Xenopus laevis)
A_23_P337800	8.48E-03	-0.1989097	IL29	interleukin 29 (interferon, lambda 1)
A_24_P56363	8.48E-03	-0.1665753	CAB39L	calcium binding protein 39-like
A_33_P3330841	8.46E-03	0.1589986	HUS1	HUS1 checkpoint homolog (S. pombe)
A_32_P213459	8.46E-03	0.2035574	DMRT2	doublesex and mab-3 related transcription factor 2
A_33_P3376090	8.43E-03	0.1644495	OR1J4	olfactory receptor, family 1, subfamily J, member 4
A_24_P332081	8.43E-03	0.8679848	JAKMIP3	Janus kinase and microtubule interacting protein 3
A_32_P511713	8.39E-03	0.2089349	C11orf42	chromosome 11 open reading frame 42
A_23_P500614	8.38E-03	0.1702579	TNFRSF8	tumor necrosis factor receptor superfamily, member 8
A_32_P449652	8.38E-03	0.1898857		
A_23_P138524	8.37E-03	-0.2061222	CPXM2	carboxypeptidase X (M14 family), member 2
A_23_P92320	8.37E-03	0.1421592	NUP54	nucleoporin 54kDa
A_33_P3620832	8.36E-03	0.2902427	ZNF483	zinc finger protein 483
A_23_P156880	8.36E-03	-0.1898841	ENPP1	ectonucleotide pyrophosphatase/phosphodiesterase 1
A_33_P3376836	8.36E-03	0.5566322		
A_24_P101642	8.35E-03	0.2494989	LOC401847	ig heavy chain V-III region VH26-like
A_32_P857658	8.34E-03	-0.237521	RPLP1	ribosomal protein, large, P1

A_24_P346587	8.34E-03	0.2358657	MTFR1	mitochondrial fission regulator 1
A_33_P3398877	8.34E-03	-0.1772364		
A_33_P3336233	8.34E-03	0.1850056	UBL4A	ubiquitin-like 4A
A_33_P3464749	8.34E-03	0.2259855	LOC253044	uncharacterized LOC253044
A_33_P3418617	8.34E-03	0.1770904	LOC440297	chondroitin sulfate proteoglycan 4 pseudogene
A_23_P422981	8.30E-03	-0.2694002	FBXO36	F-box protein 36
A_23_P33984	8.30E-03	-0.2102677	TMEM27	transmembrane protein 27
A_23_P502343	8.30E-03	-0.2546321	ADAM33	ADAM metallopeptidase domain 33
A_33_P3211153	8.29E-03	0.1908072	ANKS3	ankyrin repeat and sterile alpha motif domain containing 3
A_33_P3300297	8.29E-03	0.1823436	FAM126A	family with sequence similarity 126, member A
A_33_P3213086	8.29E-03	0.1776866		
A_33_P3755633	8.28E-03	0.2419046	SNORD124	small nucleolar RNA, C/D box 124
A_24_P194714	8.28E-03	0.2336586	FAM100B	family with sequence similarity 100, member B
A_33_P3316475	8.28E-03	0.1810683	DEFB132	defensin, beta 132
A_24_P170753	8.28E-03	-0.207631		
A_33_P3399218	8.27E-03	-0.2763084		
A_33_P3352213	8.27E-03	0.1693392		
A_33_P3249958	8.27E-03	-0.187984	LOC642852	uncharacterized LOC642852
A_33_P3229256	8.27E-03	-0.1909418	NT5C	5', 3'-nucleotidase, cytosolic
A_33_P3401169	8.26E-03	0.1358664		
A_23_P76159	8.26E-03	0.2440103	EEA1	early endosome antigen 1
A_33_P3393836	8.26E-03	-0.1525875	NT5C3	5'-nucleotidase, cytosolic III
A_23_P107855	8.26E-03	-0.2063869	FIZ1	FLT3-interacting zinc finger 1
A_33_P3346102	8.26E-03	0.4605639	TAOK3	TAO kinase 3
A_23_P145935	8.25E-03	-0.2303855	EPHB6	EPH receptor B6
A_33_P3262366	8.24E-03	0.2320182	LOC100653000	uncharacterized LOC100653000
A_33_P3216532	8.23E-03	-0.1945079	EPHB4	EPH receptor B4
A_24_P32394	8.23E-03	-0.1757871	ZRANB3	zinc finger, RAN-binding domain containing 3
A_23_P217208	8.22E-03	-0.3735889	SLC35A2	solute carrier family 35 (UDP-galactose transporter), member A2
A_23_P389897	8.22E-03	0.3120835	NGFR	nerve growth factor receptor
A_33_P3422030	8.21E-03	-0.2573857	FXYD5	FXYD domain containing ion transport regulator 5
A_33_P3225760	8.21E-03	0.1810008	PCDH18	protocadherin 18
A_33_P3217427	8.20E-03	-0.4202393	DNAJC16	DnaJ (Hsp40) homolog, subfamily C, member 16
A_33_P3249743	8.20E-03	0.1487371		
A_33_P3298617	8.18E-03	-0.2224595		
A_23_P132889	8.18E-03	0.4630047	CRMP1	collapsin response mediator protein 1
A_33_P3347387	8.17E-03	0.1915539		
A_32_P5276	8.17E-03	0.2182836	ARHGEF26	Rho guanine nucleotide exchange factor (GEF) 26
A_33_P3375657	8.17E-03	-0.1793482		
A_33_P3246733	8.16E-03	-0.2374479	MNT	MAX binding protein
A_23_P51587	8.16E-03	0.2015426	RGS7	regulator of G-protein signaling 7

A_24_P550924	8.16E-03	0.1959097	BTBD19	BTB (POZ) domain containing 19
A_23_P92202	8.16E-03	0.2774029	GMPPB	GDP-mannose pyrophosphorylase B
A_33_P3265945	8.14E-03	0.3333721		
A_33_P3267198	8.13E-03	0.2389542		
A_23_P359738	8.13E-03	0.1590445	EPC2	enhancer of polycomb homolog 2 (Drosophila)
A_24_P387875	8.11E-03	-0.2260327	KCNJ10	potassium inwardly-rectifying channel, subfamily J, member 10
A_33_P3338292	8.11E-03	0.1409108		
A_23_P253123	8.10E-03	-0.1974736	VGLL1	vestigial like 1 (Drosophila)
A_33_P3231750	8.10E-03	-0.3350473	ZNF738	zinc finger protein 738
A_23_P40718	8.10E-03	0.3773091	PARVB	parvin, beta
A_24_P197284	8.07E-03	-0.1745749	C2orf85	chromosome 2 open reading frame 85
A_23_P19352	8.07E-03	-0.7179914	CNPY3	canopy 3 homolog (zebrafish)
A_33_P3417955	8.07E-03	0.1446239		
A_24_P179013	8.07E-03	0.2161674		
A_23_P129064	8.06E-03	-0.2394201	GATM	glycine amidinotransferase (L-arginine:glycine amidinotransferase)
A_23_P25615	8.05E-03	0.2089828	SOHLH2	spermatogenesis and oogenesis specific basic helix-loop-helix 2
A_33_P3335966	8.05E-03	0.2157127	TPM1	tropomyosin 1 (alpha)
A_33_P3341234	8.05E-03	-0.1700856	UBE2H	ubiquitin-conjugating enzyme E2H
A_33_P3257678	8.04E-03	0.1732447	HIST2H3A	histone cluster 2, H3a
A_24_P125434	8.04E-03	0.1811169	TXNDC2	thioredoxin domain containing 2 (spermatzoa)
A_23_P50942	8.03E-03	-0.640451	RAB3GAP1	RAB3 GTPase activating protein subunit 1 (catalytic)
A_33_P3269779	8.03E-03	-0.192111	ZNF3	zinc finger protein 3
A_23_P47199	8.03E-03	0.2351587	SLC22A11	solute carrier family 22 (organic anion/urate transporter), member 11
A_23_P22671	8.03E-03	-0.2162756	VAMP7	vesicle-associated membrane protein 7
A_23_P67466	8.02E-03	0.1686889	PSMD8	proteasome (prosome, macropain) 26S subunit, non-ATPase, 8
A_23_P41470	8.01E-03	-0.2336724	DDX60	DEAD (Asp-Glu-Ala-Asp) box polypeptide 60
A_33_P3415113	8.00E-03	-0.1702143	CLCN6	chloride channel 6
A_23_P211738	8.00E-03	0.1602476	UBP1	upstream binding protein 1 (LBP-1a)
A_33_P3245163	7.99E-03	0.534187	MYC	v-myc myelocytomatosis viral oncogene homolog (avian)
A_24_P319942	7.99E-03	0.5815185	SSR3	signal sequence receptor, gamma (translocon-associated protein gamma)
A_33_P3343206	7.99E-03	0.1472758	LOC100288292	putative uncharacterized protein FLJ44672-like
A_23_P84202	7.96E-03	-0.193839	WDR25	WD repeat domain 25
A_23_P18806	7.96E-03	-0.1542029	YIPF5	Yip1 domain family, member 5
A_33_P3420900	7.96E-03	0.2277185	PATE2	prostate and testis expressed 2
A_24_P417189	7.95E-03	0.1811679	DUSP9	dual specificity phosphatase 9
A_24_P23245	7.93E-03	-0.1774302	NDUFA6	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 6, 14kDa
A_23_P84189	7.91E-03	-0.2169243	PITPNC1	phosphatidylinositol transfer protein, cytoplasmic 1
A_33_P3401661	7.90E-03	-0.2128349		
A_23_P25305	7.89E-03	0.1563316	ASCL1	achaete-scute complex homolog 1 (Drosophila)
A_23_P53193	7.89E-03	0.3018255	SYTL2	synaptotagmin-like 2
A_24_P68585	7.89E-03	-0.291843	SHC1	SHC (Src homology 2 domain containing) transforming protein 1

A_23_P14975	7.88E-03	-0.1478768	C16orf48	chromosome 16 open reading frame 48
A_33_P3389771	7.87E-03	0.15551	RBMY1B	RNA binding motif protein, Y-linked, family 1, member B
A_33_P3296772	7.86E-03	-0.1602089	C14orf82	chromosome 14 open reading frame 82
A_33_P3313730	7.86E-03	-0.2197127	SH3BP2	SH3-domain binding protein 2
A_33_P3808371	7.86E-03	-0.1707591	LOC283911	uncharacterized LOC283911
A_33_P3345881	7.86E-03	-0.1461902		
A_23_P99942	7.85E-03	-0.1397119	LRRK1	leucine-rich repeat kinase 1
A_33_P3352572	7.85E-03	-0.1794282		
A_33_P3217834	7.85E-03	0.5855461	SMARCAL1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a-like 1
A_24_P20630	7.85E-03	-0.228406	LEF1	lymphoid enhancer-binding factor 1
A_33_P3307965	7.84E-03	-0.2410267	AADACL3	arylacetamide deacetylase-like 3
A_23_P91764	7.84E-03	-0.2022007	TNFRSF13C	tumor necrosis factor receptor superfamily, member 13C
A_24_P623768	7.82E-03	-0.189099		
A_33_P3273285	7.81E-03	-0.1507878	ZNF525	zinc finger protein 525
A_33_P3268318	7.79E-03	0.202547		
A_33_P3327097	7.79E-03	-0.2045776	MTMR1	myotubularin related protein 1
A_23_P143692	7.75E-03	0.1465164	SH3BP1	SH3-domain binding protein 1
A_33_P3247753	7.74E-03	0.1814879	TSIX	TSIX transcript, XIST antisense RNA (non-protein coding)
A_33_P3274304	7.73E-03	-0.1437462	WIPF2	WAS/WASL interacting protein family, member 2
A_33_P3397995	7.73E-03	-0.2196138	IPCEF1	interaction protein for cytohesin exchange factors 1
A_23_P7901	7.72E-03	-0.1939536	TLL2	tubulin tyrosine ligase-like family, member 2
A_33_P3213874	7.71E-03	0.15209	OR5T3	olfactory receptor, family 5, subfamily T, member 3
A_23_P18342	7.70E-03	0.1467358	EPHA6	EPH receptor A6
A_24_P177964	7.70E-03	0.1768678	NCKAP5L	NCK-associated protein 5-like
A_24_P36745	7.70E-03	0.1711507	CXorf38	chromosome X open reading frame 38
A_23_P105900	7.70E-03	-0.217964	BTF3P11	basic transcription factor 3 pseudogene 11
A_33_P3324904	7.69E-03	-0.1420107		
A_23_P24157	7.69E-03	0.1860419	PYROXD2	pyridine nucleotide-disulphide oxidoreductase domain 2
A_33_P3299220	7.68E-03	-0.1442509	ADAMTSL4	ADAMTS-like 4
A_33_P3397693	7.68E-03	0.2066142	AGPS	alkylglycerone phosphate synthase
A_23_P92967	7.67E-03	-0.332956	MOCS2	molybdenum cofactor synthesis 2
A_33_P3212769	7.67E-03	-0.1720257	LOC100132686	uncharacterized LOC100132686
A_33_P3312743	7.67E-03	0.2299199	KRTAP4-3	keratin associated protein 4-3
A_24_P82749	7.67E-03	-0.1350614	CD37	CD37 molecule
A_23_P17130	7.67E-03	-0.1904287	C2orf88	chromosome 2 open reading frame 88
A_33_P3415744	7.67E-03	-0.1925186	ANKRD36B	ankyrin repeat domain 36B
A_23_P423926	7.67E-03	-0.2216625	SS18L1	synovial sarcoma translocation gene on chromosome 18-like 1
A_33_P3315519	7.66E-03	0.2081247	LONRF2	LON peptidase N-terminal domain and ring finger 2
A_33_P3292525	7.65E-03	0.1556961	TMEM201	transmembrane protein 201
A_33_P3680789	7.65E-03	0.2607002	LOC219731	uncharacterized LOC219731
A_33_P3354296	7.64E-03	-0.1469252		

A_33_P3559138	7.64E-03	-0.1673462	FLJ42200	FLJ42200 protein
A_33_P3245937	7.64E-03	0.2008368	LOC100128402	uncharacterized LOC100128402
A_33_P3327106	7.64E-03	-0.1999518	LOC100129900	P008-1
A_23_P159974	7.63E-03	-0.1518806	KLHL13	kelch-like 13 (Drosophila)
A_23_P132515	7.62E-03	0.1922413	SIDT1	SID1 transmembrane family, member 1
A_33_P3314192	7.61E-03	0.1891991	PACSN2	protein kinase C and casein kinase substrate in neurons 2
A_33_P3258141	7.61E-03	0.1743491	CHUK	conserved helix-loop-helix ubiquitous kinase
A_32_P230148	7.61E-03	-0.2577627		
A_24_P135921	7.58E-03	0.2055385		
A_33_P3285032	7.58E-03	0.1482485	OR10A3	olfactory receptor, family 10, subfamily A, member 3
A_23_P210091	7.57E-03	-0.1735645	SUPT7L	suppressor of Ty 7 (S. cerevisiae)-like
A_33_P3233871	7.56E-03	0.1700803	F12	coagulation factor XII (Hageman factor)
A_23_P22548	7.55E-03	-0.2466175	CHM	choroideremia (Rab escort protein 1)
A_23_P722	7.54E-03	0.1902343	SYCP1	synaptonemal complex protein 1
A_24_P260639	7.54E-03	0.2720202	HIST1H1D	histone cluster 1, H1d
A_24_P516246	7.54E-03	0.2136747	FLJ12825	uncharacterized LOC440101
A_33_P3574391	7.54E-03	0.1606528		
A_33_P3405004	7.54E-03	0.1722546	NFXL1	nuclear transcription factor, X-box binding-like 1
A_33_P3252134	7.54E-03	1.4763384		
A_23_P35082	7.53E-03	1.3986049	SESN2	sestrin 2
A_33_P3358686	7.52E-03	0.184193		
A_33_P3404685	7.51E-03	0.1561552		
A_23_P165380	7.50E-03	1.0282651	CRYGA	crystallin, gamma A
A_33_P3369567	7.50E-03	-0.185491	LSP1	lymphocyte-specific protein 1
A_33_P3283863	7.50E-03	-0.1444907	ODZ1	odz, odd Oz/ten-m homolog 1 (Drosophila)
A_33_P3789327	7.49E-03	0.2432619	SNORD12B	small nucleolar RNA, C/D box 12B
A_33_P3307187	7.49E-03	-0.2449893	NPAS3	neuronal PAS domain protein 3
A_23_P42997	7.49E-03	-0.1430938	CPSF4	cleavage and polyadenylation specific factor 4, 30kDa
A_33_P3417920	7.48E-03	0.1605055	AKAP4	A kinase (PRKA) anchor protein 4
A_24_P391960	7.47E-03	-0.2782155		
A_33_P3400273	7.46E-03	-0.1826582	SELL	selectin L
A_24_P408767	7.46E-03	0.1973592	PRSS42	protease, serine, 42
A_33_P3215929	7.46E-03	-0.1772012	PRR5	proline rich 5 (renal)
A_23_P400298	7.44E-03	-0.1415737	PRSS22	protease, serine, 22
A_33_P3263217	7.44E-03	0.2237116	LRRC4	leucine rich repeat containing 4
A_23_P101480	7.42E-03	-0.1411717	MAST1	microtubule associated serine/threonine kinase 1
A_33_P3215333	7.42E-03	-0.1578714	NFATC2	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2
A_23_P395418	7.42E-03	-0.198282	PCDHGB3	protocadherin gamma subfamily B, 3
A_33_P3333982	7.42E-03	0.2137821	PDE4DIP	phosphodiesterase 4D interacting protein
A_23_P139958	7.41E-03	-0.2424553	CDK8	cyclin-dependent kinase 8
A_33_P3559060	7.40E-03	-0.2595307	PNPLA5	patatin-like phospholipase domain containing 5

A_23_P118615	7.40E-03	-0.138498	ABCA8	ATP-binding cassette, sub-family A (ABC1), member 8
A_33_P3350892	7.39E-03	0.1981966	LOC651337	uncharacterized LOC651337
A_23_P57007	7.38E-03	-0.205516	LOC100127886	uncharacterized LOC100127886
A_33_P3300142	7.38E-03	-0.1799173	ANKFY1	ankyrin repeat and FYVE domain containing 1
A_32_P486693	7.38E-03	0.1933073	NRIP3	nuclear receptor interacting protein 3
A_33_P3237709	7.37E-03	-0.2052645		
A_23_P257355	7.37E-03	-0.1800424	OTC	ornithine carbamoyltransferase
A_23_P317729	7.37E-03	0.1740826	SP7	Sp7 transcription factor
A_33_P3299309	7.36E-03	0.2680739	RPL28	ribosomal protein L28
A_23_P6615	7.36E-03	0.4270745	CPB1	carboxypeptidase B1 (tissue)
A_24_P691826	7.34E-03	0.1936508		
A_24_P586390	7.34E-03	0.1710607	LOC100133331	uncharacterized LOC100133331
A_33_P3356332	7.34E-03	-0.1577826		
A_33_P3419875	7.34E-03	0.267713		
A_23_P103897	7.33E-03	-0.1381368		
A_33_P3389298	7.33E-03	-0.208485	ZNF30	zinc finger protein 30
A_24_P234838	7.32E-03	0.2431408	PCDH1	protocadherin 1
A_23_P81058	7.31E-03	0.1881593	BMP3	bone morphogenetic protein 3
A_33_P3225332	7.30E-03	-0.19421	LOC100288884	uncharacterized LOC100288884
A_33_P3213006	7.30E-03	0.178794	KRTAP1-3	keratin associated protein 1-3
A_23_P35467	7.30E-03	0.1643618	CISD1	CDGSH iron sulfur domain 1
A_23_P87709	7.29E-03	-0.2362396	PLBD1	phospholipase B domain containing 1
A_33_P3240340	7.29E-03	-0.2424949		
A_33_P3265254	7.27E-03	-0.1959503		
A_33_P3359518	7.25E-03	-0.217852	MYSM1	Myb-like, SWIRM and MPN domains 1
A_23_P138835	7.25E-03	-0.5620747	CAPN1	calpain 1, (mu/l) large subunit
A_33_P3876414	7.24E-03	-0.2884116	C17orf6	chromosome 17 open reading frame 6
A_23_P155288	7.23E-03	0.1995396	GFM1	G elongation factor, mitochondrial 1
A_33_P3293858	7.23E-03	-0.2956564	MTUS2	microtubule associated tumor suppressor candidate 2
A_33_P3246927	7.23E-03	0.1701265	CSMD2	CUB and Sushi multiple domains 2
A_23_P2645	7.22E-03	0.2232253	SDS	serine dehydratase
A_33_P3245321	7.22E-03	0.1969141	CENPP	centromere protein P
A_33_P3270485	7.21E-03	0.2838707	CBX6	chromobox homolog 6
A_33_P3335371	7.21E-03	0.6349218	MAML3	mastermind-like 3 (Drosophila)
A_24_P361816	7.20E-03	0.2089635		
A_33_P3222501	7.20E-03	0.2002342	FAM157A	family with sequence similarity 157, member A
A_32_P137266	7.20E-03	0.1831669	EFCAB7	EF-hand calcium binding domain 7
A_33_P3246163	7.20E-03	-0.1843635	RPL5	ribosomal protein L5
A_33_P3418942	7.20E-03	-0.2329372	NUDT21	nudix (nucleoside diphosphate linked moiety X)-type motif 21
A_23_P93543	7.18E-03	-0.1713744	PEX7	peroxisomal biogenesis factor 7
A_23_P4679	7.17E-03	-0.4767881	ERF	Ets2 repressor factor

A_24_P236251	7.17E-03	-0.146743	DLK1	delta-like 1 homolog (Drosophila)
A_33_P3298256	7.17E-03	0.1405018		
A_33_P3347108	7.16E-03	0.2073726	TTC5	tetratricopeptide repeat domain 5
A_23_P61447	7.16E-03	0.1572309	ETFDH	electron-transferring-flavoprotein dehydrogenase
A_33_P3709327	7.16E-03	0.2626962	LOC100144602	uncharacterized LOC100144602
A_33_P3367642	7.15E-03	0.2315073	LMF2	lipase maturation factor 2
A_24_P51855	7.15E-03	0.2150064	DUSP7	dual specificity phosphatase 7
A_24_P340696	7.15E-03	-0.2230301	SERHL2	serine hydrolase-like 2
A_23_P205293	7.15E-03	-0.2575166	EXD2	exonuclease 3'-5' domain containing 2
A_32_P115375	7.15E-03	0.1872154		
A_33_P3372924	7.14E-03	0.4365252	ADCK3	aarF domain containing kinase 3
A_33_P3388646	7.14E-03	-0.3559616	ABLIM1	actin binding LIM protein 1
A_33_P3353496	7.13E-03	0.2579333	GJD4	gap junction protein, delta 4, 40.1kDa
A_32_P141923	7.12E-03	0.2324823	NACA2	nascent polypeptide-associated complex alpha subunit 2
A_33_P3246858	7.12E-03	0.1699374	TBX15	T-box 15
A_23_P362712	7.12E-03	0.2383657	ABHD11	abhydrolase domain containing 11
A_33_P3245674	7.11E-03	-0.2603608	ZNF329	zinc finger protein 329
A_23_P12405	7.11E-03	-0.1289016	ESPN	espin
A_33_P3277614	7.10E-03	0.2158952	OLA1	Obg-like ATPase 1
A_33_P3474859	7.09E-03	-0.2460983	LOC203274	uncharacterized LOC203274
A_33_P3252889	7.09E-03	0.1800282	PHF12	PHD finger protein 12
A_23_P159305	7.08E-03	-0.4708899	TAF15	TAF15 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 68kDa
A_24_P824592	7.08E-03	0.1899227	RBMX	RNA binding motif protein, X-linked
A_33_P3821778	7.08E-03	-0.172657	LOC643401	uncharacterized LOC643401
A_24_P129341	7.07E-03	0.1792158	AKR1B10	aldo-keto reductase family 1, member B10 (aldose reductase)
A_33_P3262537	7.07E-03	0.2034641		
A_33_P3423250	7.06E-03	0.1757678	RTL1	retrotransposon-like 1
A_32_P103945	7.06E-03	-0.2764909	B4GALT4	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 4
A_23_P55990	7.06E-03	-0.3289766	NAPA	N-ethylmaleimide-sensitive factor attachment protein, alpha
A_23_P38952	7.06E-03	0.1866883	ACER1	alkaline ceramidase 1
A_33_P3360301	7.05E-03	-0.1744824	USP19	ubiquitin specific peptidase 19
A_23_P105592	7.04E-03	0.1732673	MVK	mevalonate kinase
A_24_P72394	7.04E-03	-0.2212669	RBAK	RB-associated KRAB zinc finger
A_23_P206760	7.03E-03	0.1845907	HP	haptoglobin
A_33_P3251985	7.03E-03	0.2098532	MFSD1	major facilitator superfamily domain containing 1
A_23_P98410	7.03E-03	0.2672466	CD3G	CD3g molecule, gamma (CD3-TCR complex)
A_33_P3336657	7.03E-03	-0.251829	PLEKHM3	pleckstrin homology domain containing, family M, member 3
A_24_P603890	7.02E-03	0.2242283		
A_32_P176594	7.01E-03	-0.2165657	KIAA1614	KIAA1614
A_24_P113960	7.00E-03	-0.2071185	NT5C1A	5'-nucleotidase, cytosolic IA
A_24_P942730	6.99E-03	-0.216842	ZSCAN29	zinc finger and SCAN domain containing 29

A_33_P3414574	6.99E-03	0.2521684	DNAJA2	DnaJ (Hsp40) homolog, subfamily A, member 2
A_23_P88303	6.94E-03	-0.2329752	HSPA2	heat shock 70kDa protein 2
A_23_P217114	6.94E-03	-0.3907588	ALAD	aminolevulinate dehydratase
A_33_P3402635	6.94E-03	0.2189457	C16orf3	chromosome 16 open reading frame 3
A_23_P346093	6.94E-03	0.2475458	TMC8	transmembrane channel-like 8
A_23_P390443	6.93E-03	0.16015	SHISA7	shisa homolog 7 (Xenopus laevis)
A_23_P391506	6.91E-03	-0.1940195	IVNS1ABP	influenza virus NS1A binding protein
A_23_P44207	6.91E-03	-0.2093033	ACOT12	acyl-CoA thioesterase 12
A_33_P3216487	6.91E-03	0.2128918		
A_23_P139864	6.90E-03	-0.309156	GSG1	germ cell associated 1
A_24_P260440	6.90E-03	0.3491854	TNPO1	transportin 1
A_33_P3368706	6.90E-03	0.2143013	NFYC	nuclear transcription factor Y, gamma
A_23_P48964	6.89E-03	0.2871307	VPS33B	vacuolar protein sorting 33 homolog B (yeast)
A_33_P3245908	6.88E-03	0.2899098	C10orf128	chromosome 10 open reading frame 128
A_23_P127824	6.88E-03	0.2039764	TNNT3	troponin T type 3 (skeletal, fast)
A_33_P3306413	6.87E-03	-0.2290406	INCA1	inhibitor of CDK, cyclin A1 interacting protein 1
A_23_P103765	6.87E-03	0.1412887	FCER1A	Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide
A_24_P352445	6.86E-03	0.1671812	MRPL42	mitochondrial ribosomal protein L42
A_33_P3320822	6.86E-03	-0.2322956		
A_33_P3281171	6.86E-03	-0.1703784	LOC100130987	uncharacterized LOC100130987
A_23_P70387	6.85E-03	0.2329047	APOBEC2	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 2
A_33_P3348194	6.85E-03	-0.2084434		
A_33_P3285047	6.84E-03	0.2183986	ZNF75A	zinc finger protein 75a
A_24_P583040	6.83E-03	0.2499841	C17orf67	chromosome 17 open reading frame 67
A_23_P117896	6.83E-03	0.1709414	TGM7	transglutaminase 7
A_23_P1775	6.83E-03	0.2401019	DPAGT1	dolichyl-phosphate (UDP-N-acetylglucosamine) N-acetylglucosaminophosphotransferase 1 (GlcNAc-1-P
A_23_P202945	6.83E-03	-0.2862406	ZBTB44	zinc finger and BTB domain containing 44
A_33_P3313785	6.82E-03	0.1733744	CCDC14	coiled-coil domain containing 14
A_24_P109069	6.81E-03	0.2637081	SYT15	synaptotagmin XV
A_33_P3227551	6.81E-03	-0.1677475	ZNF331	zinc finger protein 331
A_24_P222997	6.80E-03	-0.2042959	ZRANB3	zinc finger, RAN-binding domain containing 3
A_33_P3273906	6.80E-03	-0.1914707	OR10G4	olfactory receptor, family 10, subfamily G, member 4
A_33_P3242069	6.80E-03	0.1483114	LOC729159	UPF0607 protein ENSP00000381418-like
A_23_P11025	6.79E-03	0.3015711	ZNF185	zinc finger protein 185 (LIM domain)
A_23_P415411	6.78E-03	0.3385751	HIST1H4E	histone cluster 1, H4e
A_23_P399797	6.77E-03	-0.1882887	SMAD5-AS1	SMAD5 antisense RNA 1 (non-protein coding)
A_33_P3410507	6.76E-03	0.6825925	CEP170	centrosomal protein 170kDa
A_23_P14124	6.76E-03	0.2084545	RASL11A	RAS-like, family 11, member A
A_33_P3364389	6.76E-03	0.2289899	SYT8	synaptotagmin VIII
A_33_P3377391	6.76E-03	0.1812202		

A_33_P3359743	6.75E-03	0.162518		
A_24_P40626	6.74E-03	0.1642936	GREM2	gremlin 2
A_33_P3331174	6.74E-03	0.2257541		
A_33_P3248213	6.74E-03	0.1591494	CSNK1A1P1	casein kinase 1, alpha 1 pseudogene 1
A_32_P538017	6.74E-03	0.1882551	TBX10	T-box 10
A_23_P111978	6.74E-03	0.1855863	KCNK9	potassium channel, subfamily K, member 9
A_23_P392942	6.73E-03	0.3087985	MSR1	macrophage scavenger receptor 1
A_24_P555510	6.72E-03	0.5430669	PCM1	pericentriolar material 1
A_33_P3252588	6.71E-03	-0.1877295	LOC100130093	uncharacterized LOC100130093
A_33_P3288569	6.71E-03	0.2480013	MBIP	MAP3K12 binding inhibitory protein 1
A_33_P3771741	6.71E-03	1.4797896		
A_33_P3422466	6.71E-03	0.1465699	MORN3	MORN repeat containing 3
A_33_P3734981	6.71E-03	0.2718417	C9orf148	chromosome 9 open reading frame 148
A_33_P3534905	6.70E-03	0.1928656	FLJ42969	uncharacterized LOC441374
A_23_P209944	6.70E-03	-0.251125	RETSAT	retinol saturase (all-trans-retinol 13,14-reductase)
A_23_P382811	6.70E-03	0.1928506	SNX31	sorting nexin 31
A_24_P64329	6.69E-03	-0.3277424	STK32C	serine/threonine kinase 32C
A_23_P16798	6.69E-03	-0.2305714	PFN4	profilin family, member 4
A_24_P298027	6.68E-03	-0.1832288	AXIN2	axin 2
A_33_P3254380	6.68E-03	-0.1408427	SLC9A7P1	solute carrier family 9 (sodium/hydrogen exchanger), member 7 pseudogene 1
A_33_P3371055	6.68E-03	-0.1694339	RAB1A	RAB1A, member RAS oncogene family
A_33_P3292126	6.67E-03	1.2885096		
A_24_P500891	6.67E-03	0.196788	AK2	adenylate kinase 2
A_24_P810697	6.67E-03	0.2417711	MXRA7	matrix-remodelling associated 7
A_23_P408232	6.66E-03	-0.1832064	MGC23270	uncharacterized LOC196872
A_24_P217758	6.66E-03	-0.2337325	MFAP3	microfibrillar-associated protein 3
A_24_P202717	6.66E-03	-0.2494165	PLEKHJ1	pleckstrin homology domain containing, family J member 1
A_23_P416191	6.65E-03	-0.163624	TAS2R31	taste receptor, type 2, member 31
A_23_P31840	6.64E-03	-0.2308744	EEF1D	eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange protein)
A_33_P3288614	6.64E-03	-0.2423096		
A_32_P52785	6.64E-03	0.2322316	DAAM2	dishevelled associated activator of morphogenesis 2
A_23_P122116	6.63E-03	0.2845769	DDX41	DEAD (Asp-Glu-Ala-Asp) box polypeptide 41
A_33_P3273063	6.63E-03	-0.2122376	NUP43	nucleoporin 43kDa
A_33_P3424864	6.61E-03	0.1871804		
A_33_P3371460	6.61E-03	-0.1378057	POLR2F	polymerase (RNA) II (DNA directed) polypeptide F
A_24_P934800	6.61E-03	0.2297539	ERI2	ERI1 exoribonuclease family member 2
A_23_P404821	6.60E-03	-0.2443725	KIAA1147	KIAA1147
A_23_P132237	6.59E-03	0.1398884	C22orf31	chromosome 22 open reading frame 31
A_33_P3265514	6.59E-03	-0.1678641	TPTE	transmembrane phosphatase with tensin homology
A_23_P63896	6.58E-03	0.2009235	FAS	Fas (TNF receptor superfamily, member 6)
A_24_P365506	6.58E-03	0.1719259	FERMT1	fermitin family member 1

A_24_P166443	6.57E-03	-0.257054	HLA-DPB1	major histocompatibility complex, class II, DP beta 1
A_33_P3372752	6.57E-03	0.1750176	LOC400682	zinc finger protein 100-like
A_24_P46577	6.56E-03	-0.1903466	ZNRD1	zinc ribbon domain containing 1
A_33_P3324695	6.56E-03	-0.1745872	LOC100506393	uncharacterized LOC100506393
A_23_P99632	6.56E-03	-0.2497377	RNF31	ring finger protein 31
A_24_P157370	6.56E-03	-0.1747104	IL17RB	interleukin 17 receptor B
A_23_P252642	6.55E-03	-0.2319838	BBS5	Bardet-Biedl syndrome 5
A_33_P3252785	6.55E-03	0.1874331	PLAC9	placenta-specific 9
A_23_P137403	6.54E-03	0.2711044	LRRC41	leucine rich repeat containing 41
A_33_P3251776	6.54E-03	-0.2555297	HSD3B7	hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 7
A_23_P143748	6.54E-03	0.481159	TLL12	tubulin tyrosine ligase-like family, member 12
A_32_P85591	6.54E-03	-0.218549	H2BFXP	H2B histone family, member X, pseudogene
A_23_P157404	6.53E-03	-0.2530199	AP1S1	adaptor-related protein complex 1, sigma 1 subunit
A_33_P3288334	6.52E-03	0.2015561		
A_33_P3233081	6.52E-03	-0.1702934	MSH5	mutS homolog 5 (E. coli)
A_23_P18739	6.51E-03	-0.245675	TMEM184C	transmembrane protein 184C
A_24_P303594	6.50E-03	-0.1749911	ACTR3B	ARP3 actin-related protein 3 homolog B (yeast)
A_23_P114134	6.50E-03	0.1304885	SSX3	synovial sarcoma, X breakpoint 3
A_23_P20101	6.50E-03	0.1789653	TAS2R4	taste receptor, type 2, member 4
A_33_P3315874	6.50E-03	0.2317788	DHX30	DEAH (Asp-Glu-Ala-His) box polypeptide 30
A_24_P555066	6.48E-03	-0.2336596	SMTNL2	smoothelin-like 2
A_23_P391857	6.48E-03	-0.1829798	ESRRB	estrogen-related receptor beta
A_33_P3346448	6.47E-03	0.3265415	PCDH11X	protocadherin 11 X-linked
A_23_P207299	6.47E-03	0.182842	RNFT1	ring finger protein, transmembrane 1
A_24_P101617	6.47E-03	0.2017443		
A_33_P3221748	6.47E-03	0.280814	RUNX3	runt-related transcription factor 3
A_23_P371765	6.47E-03	-0.193091	C21orf56	chromosome 21 open reading frame 56
A_24_P56884	6.46E-03	0.2226796	TMEM199	transmembrane protein 199
A_23_P217899	6.45E-03	-0.2451847	CCNL2	cyclin L2
A_33_P3262555	6.45E-03	-0.2773879	MEX3D	mex-3 homolog D (C. elegans)
A_24_P380536	6.44E-03	-0.2630554	CD164	CD164 molecule, sialomucin
A_24_P108311	6.43E-03	0.2480782	NEDD4L	neural precursor cell expressed, developmentally down-regulated 4-like
A_33_P3344201	6.43E-03	0.2942663	AKT1S1	AKT1 substrate 1 (proline-rich)
A_23_P68167	6.42E-03	0.1948191	CNGA3	cyclic nucleotide gated channel alpha 3
A_33_P3421363	6.42E-03	0.1595241	ZNF169	zinc finger protein 169
A_23_P257417	6.41E-03	-0.2175585	C2orf63	chromosome 2 open reading frame 63
A_23_P343594	6.41E-03	-0.1979	USP40	ubiquitin specific peptidase 40
A_33_P3251841	6.40E-03	0.2420062	DSEL	dermatan sulfate epimerase-like
A_23_P259357	6.38E-03	0.1952214	SLC35E4	solute carrier family 35, member E4
A_23_P253451	6.37E-03	0.2196732	SLC7A14	solute carrier family 7 (orphan transporter), member 14
A_24_P182539	6.36E-03	-0.2263482	ATG4C	ATG4 autophagy related 4 homolog C (S. cerevisiae)

A_33_P3387458	6.35E-03	-0.2013233	SFMBT2	Scm-like with four mbt domains 2
A_24_P322771	6.35E-03	0.4325377	TFF1	trefoil factor 1
A_33_P3347937	6.34E-03	-0.1890355	HSF1	heat shock transcription factor 1
A_32_P180210	6.34E-03	0.2013353	FAM35A	family with sequence similarity 35, member A
A_23_P156025	6.34E-03	-0.2021025	IRX2	iroquois homeobox 2
A_33_P3414058	6.33E-03	-0.2908577	MEN1	multiple endocrine neoplasia I
A_23_P146217	6.32E-03	-0.1910548	BAG4	BCL2-associated athanogene 4
A_33_P3333485	6.32E-03	0.2035145		
A_23_P28057	6.31E-03	0.6498545	THOP1	thimet oligopeptidase 1
A_23_P342934	6.31E-03	-0.1859771	TLE3	transducin-like enhancer of split 3 (E(sp1) homolog, Drosophila)
A_33_P3419545	6.31E-03	-0.1761339	CDADC1	cytidine and dCMP deaminase domain containing 1
A_23_P361049	6.30E-03	-0.2345532	MYO1B	myosin IB
A_23_P164946	6.30E-03	-0.2547078	FKRP	fukutin related protein
A_33_P3378785	6.30E-03	0.2501834	FAM99A	family with sequence similarity 99, member A (non-protein coding)
A_23_P47110	6.29E-03	-0.1910291		
A_33_P3244793	6.29E-03	0.2245196	GADL1	glutamate decarboxylase-like 1
A_24_P15292	6.28E-03	0.2402879	C1orf124	chromosome 1 open reading frame 124
A_23_P115022	6.28E-03	0.2182619	TMEM125	transmembrane protein 125
A_23_P15654	6.28E-03	-0.2185105	TRAF4	TNF receptor-associated factor 4
A_33_P3417944	6.28E-03	-0.1653054	HDAC11	histone deacetylase 11
A_23_P43415	6.27E-03	0.1778416	HSD17B3	hydroxysteroid (17-beta) dehydrogenase 3
A_23_P375566	6.27E-03	-0.1868251	STXBP4	syntaxin binding protein 4
A_23_P142289	6.26E-03	0.2595301	GNA11	guanine nucleotide binding protein (G protein), alpha 11 (Gq class)
A_23_P115492	6.26E-03	0.2248927	VASH2	vasohibin 2
A_24_P222655	6.26E-03	-0.1706665	C1QA	complement component 1, q subcomponent, A chain
A_33_P3414482	6.26E-03	0.1808907	GOT2	glutamic-oxaloacetic transaminase 2, mitochondrial (aspartate aminotransferase 2)
A_23_P310931	6.26E-03	0.2511806	CNR2	cannabinoid receptor 2 (macrophage)
A_33_P3266609	6.25E-03	0.1647534		
A_23_P339687	6.25E-03	-0.2321127	ZNF675	zinc finger protein 675
A_24_P272352	6.25E-03	0.2187574		
A_23_P394986	6.25E-03	0.1910389	CREG2	cellular repressor of E1A-stimulated genes 2
A_33_P3304452	6.25E-03	-0.202969		
A_32_P50223	6.25E-03	-0.2566046	PLK5	polo-like kinase 5
A_23_P167595	6.25E-03	-0.2928792	UBE2B	ubiquitin-conjugating enzyme E2B
A_33_P3864861	6.25E-03	0.2101943	LOC339505	uncharacterized LOC339505
A_23_P385690	6.24E-03	0.3379009	WNT3A	wingless-type MMTV integration site family, member 3A
A_23_P157607	6.24E-03	-0.1884735	INTS10	integrator complex subunit 10
A_33_P3336514	6.24E-03	-0.2365204		
A_33_P3390673	6.24E-03	-0.179042		
A_33_P3249897	6.23E-03	0.2573615		
A_33_P3397348	6.23E-03	-0.1995148	LOC149134	uncharacterized LOC149134

A_33_P3221432	6.23E-03	-0.1766723	ZNF284	zinc finger protein 284
A_33_P3372084	6.22E-03	0.1653616		
A_33_P3372124	6.22E-03	0.1625702	TRAFD1	TRAF-type zinc finger domain containing 1
A_23_P103864	6.22E-03	-0.1823128	TTC13	tetratricopeptide repeat domain 13
A_23_P254863	6.22E-03	0.247762	NIM1	serine/threonine-protein kinase NIM1
A_24_P94319	6.22E-03	0.2634864	C1orf177	chromosome 1 open reading frame 177
A_23_P252653	6.21E-03	-0.2785263	STK25	serine/threonine kinase 25
A_23_P84118	6.21E-03	0.3062246	CDH18	cadherin 18, type 2
A_33_P3380196	6.21E-03	-0.1562099	AKAP9	A kinase (PRKA) anchor protein (yotiao) 9
A_33_P3260426	6.21E-03	0.2433627	SPRR2A	small proline-rich protein 2A
A_23_P424051	6.20E-03	-0.3294392	SLC25A48	solute carrier family 25, member 48
A_23_P155147	6.19E-03	0.2069899	ZBED4	zinc finger, BED-type containing 4
A_23_P162945	6.19E-03	0.2311179	SRP54	signal recognition particle 54kDa
A_24_P801079	6.18E-03	0.2400463		
A_23_P49759	6.18E-03	-0.2209179	CCL1	chemokine (C-C motif) ligand 1
A_23_P259955	6.18E-03	-0.2058167	GDF5	growth differentiation factor 5
A_24_P415624	6.16E-03	0.151207	MLXIP	MLX interacting protein
A_23_P58482	6.15E-03	-0.2921383	MGAT1	mannosyl (alpha-1,3-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase
A_33_P3268634	6.14E-03	-0.1527736	WIBG	within bgcn homolog (Drosophila)
A_33_P3284404	6.13E-03	-0.1592755	SYNGR1	synaptogyrin 1
A_23_P84565	6.13E-03	0.2208953	POLR3D	polymerase (RNA) III (DNA directed) polypeptide D, 44kDa
A_33_P3378334	6.13E-03	0.3114389	SMC2	structural maintenance of chromosomes 2
A_33_P3213712	6.11E-03	-0.1434487		
A_33_P3363799	6.10E-03	0.2621263	NCAM1	neural cell adhesion molecule 1
A_23_P38254	6.08E-03	0.1536002	ELAC2	elaC homolog 2 (E. coli)
A_24_P133488	6.08E-03	0.2831432	CDCA4	cell division cycle associated 4
A_33_P3365077	6.07E-03	0.223958	OR2G2	olfactory receptor, family 2, subfamily G, member 2
A_23_P41390	6.06E-03	0.4200403	SH3TC1	SH3 domain and tetratricopeptide repeats 1
A_33_P3235098	6.05E-03	0.3480056	FAM22D	family with sequence similarity 22, member D
A_23_P57347	6.05E-03	-0.1645039	PCNT	pericentrin
A_33_P3316073	6.05E-03	-0.3541663	INTS6	integrator complex subunit 6
A_23_P129058	6.05E-03	-0.176128	USP8	ubiquitin specific peptidase 8
A_33_P3283592	6.03E-03	0.1645778	C5orf60	chromosome 5 open reading frame 60
A_33_P3248794	6.02E-03	0.3183782	NAB2	NGFI-A binding protein 2 (EGR1 binding protein 2)
A_23_P54223	6.01E-03	-0.2179154	RABGGTA	Rab geranylgeranyltransferase, alpha subunit
A_33_P3304377	6.00E-03	-0.2226966	MTRR	5-methyltetrahydrofolate-homocysteine methyltransferase reductase
A_24_P83075	6.00E-03	0.2113448	LOC100509196	putative uncharacterized protein encoded by NCRNA00205-like
A_23_P25746	6.00E-03	-0.1587011	C14orf128	chromosome 14 open reading frame 128
A_33_P3238611	5.99E-03	-0.182813		
A_23_P120442	5.99E-03	-0.2089935	NCOA3	nuclear receptor coactivator 3
A_33_P3300217	5.98E-03	-0.1616601	MYLK3	myosin light chain kinase 3

A_33_P3217332	5.98E-03	-0.2059502	ZNF93	zinc finger protein 93
A_33_P3375576	5.97E-03	-0.1728214	MAP7	microtubule-associated protein 7
A_33_P3355055	5.97E-03	0.1577425	ARL6IP4	ADP-ribosylation-like factor 6 interacting protein 4
A_33_P3332487	5.97E-03	-0.1779714	FANK1	fibronectin type III and ankyrin repeat domains 1
A_23_P164089	5.97E-03	-0.250718	RFFL	ring finger and FYVE-like domain containing 1
A_23_P502627	5.97E-03	-0.1727532	ZXDA	zinc finger, X-linked, duplicated A
A_23_P28090	5.97E-03	-0.2295017	STX10	syntaxin 10
A_33_P3389912	5.95E-03	-0.2246142	LOC100130542	uncharacterized LOC100130542
A_33_P3376234	5.95E-03	-0.2542774	PHTF1	putative homeodomain transcription factor 1
A_24_P941359	5.95E-03	-0.1922657	FAM65B	family with sequence similarity 65, member B
A_33_P3239338	5.95E-03	0.2135422	DGKZ	diacylglycerol kinase, zeta
A_23_P28318	5.94E-03	-0.2003	C2orf56	chromosome 2 open reading frame 56
A_33_P3291559	5.94E-03	-0.1902012		
A_33_P3295705	5.93E-03	-0.2471673		
A_33_P3303557	5.93E-03	0.2162676		
A_23_P368195	5.93E-03	-0.2986788	LSM11	LSM11, U7 small nuclear RNA associated
A_23_P407112	5.93E-03	-0.2030887	SPATA18	spermatogenesis associated 18 homolog (rat)
A_33_P3265290	5.93E-03	-0.1992635	RPL24	ribosomal protein L24
A_33_P3277805	5.92E-03	-0.3991256		
A_23_P24633	5.92E-03	-0.1987289	THYN1	thymocyte nuclear protein 1
A_33_P3217649	5.91E-03	-0.1803072	C9orf116	chromosome 9 open reading frame 116
A_24_P940666	5.91E-03	0.2718302	MED1	mediator complex subunit 1
A_32_P66974	5.91E-03	0.2973565	PCSK7	proprotein convertase subtilisin/kexin type 7
A_33_P3409635	5.91E-03	-0.1709468		
A_23_P399217	5.91E-03	0.1907392	OR5P3	olfactory receptor, family 5, subfamily P, member 3
A_23_P385126	5.90E-03	0.302463	DEPDC7	DEP domain containing 7
A_33_P3221055	5.90E-03	-0.2460295		
A_33_P3222852	5.90E-03	0.2492063		
A_23_P16834	5.89E-03	-0.1800658	FNDC4	fibronectin type III domain containing 4
A_33_P3271395	5.89E-03	0.3010541	LOC100129534	small nuclear ribonucleoprotein polypeptide N pseudogene
A_24_P914940	5.89E-03	-0.1418278	MEF2BNB	MEF2B neighbor
A_33_P3329153	5.88E-03	-0.2867279	CDK13	cyclin-dependent kinase 13
A_33_P3271316	5.88E-03	0.2287564	RPP25	ribonuclease P/MRP 25kDa subunit
A_23_P107412	5.88E-03	-0.2857736	P4HB	prolyl 4-hydroxylase, beta polypeptide
A_23_P345799	5.88E-03	-0.1756207	FAM129C	family with sequence similarity 129, member C
A_24_P362317	5.88E-03	-0.2400533	ADAR	adenosine deaminase, RNA-specific
A_24_P240242	5.87E-03	-0.2725149	MAP4	microtubule-associated protein 4
A_23_P34066	5.87E-03	0.1572689	IL9R	interleukin 9 receptor
A_33_P3223663	5.87E-03	-0.170606		
A_32_P226009	5.87E-03	-0.186206	C5orf42	chromosome 5 open reading frame 42
A_23_P149690	5.86E-03	0.2709299	PANK4	pantothenate kinase 4

A_33_P3293202	5.86E-03	-0.2462842	C8orf37	chromosome 8 open reading frame 37
A_23_P41304	5.85E-03	-0.1924115	GYPE	glycophorin E (MNS blood group)
A_33_P3431595	5.85E-03	-0.1688815	C8orf31	chromosome 8 open reading frame 31
A_33_P3255664	5.84E-03	-0.1880657	PBX1	pre-B-cell leukemia homeobox 1
A_33_P3362128	5.84E-03	0.1502921		
A_23_P502957	5.84E-03	-0.1714858	CDH26	cadherin 26
A_24_P154006	5.84E-03	0.1536256	NDUFB9	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9, 22kDa
A_23_P391764	5.81E-03	-0.3354754	RAPGEF1	Rap guanine nucleotide exchange factor (GEF) 1
A_33_P3213767	5.81E-03	-0.1621325	CCDC157	coiled-coil domain containing 157
A_32_P167471	5.80E-03	0.1551233	CLMN	calmin (calponin-like, transmembrane)
A_23_P416608	5.80E-03	-0.2333727	LAMP2	lysosomal-associated membrane protein 2
A_33_P3369964	5.80E-03	-0.2823087	ATXN1L	ataxin 1-like
A_33_P3241378	5.79E-03	0.3105807	POM121L8P	POM121 membrane glycoprotein-like 8 pseudogene
A_33_P3375910	5.79E-03	-0.7712588	GALK1	galactokinase 1
A_23_P148919	5.78E-03	0.1796033	CPT2	carnitine palmitoyltransferase 2
A_23_P96623	5.77E-03	0.2206602	OPN1MW	opsin 1 (cone pigments), medium-wave-sensitive
A_24_P298495	5.77E-03	0.2662358	LOC100130744	uncharacterized LOC100130744
A_33_P3744415	5.77E-03	0.1661966		
A_24_P648176	5.76E-03	-0.3394253	LYRM5	LYR motif containing 5
A_23_P79247	5.76E-03	-0.1832627	PGAP1	post-GPI attachment to proteins 1
A_33_P3393412	5.76E-03	0.1989106	KRTAP5-5	keratin associated protein 5-5
A_23_P145657	5.76E-03	0.1927461	STAG3	stromal antigen 3
A_33_P3296352	5.75E-03	-0.2418764	PPM1B	protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent, 1B
A_33_P3301884	5.75E-03	0.1824266	LOC116437	uncharacterized LOC116437
A_24_P843020	5.75E-03	-0.2471423		
A_33_P3227077	5.74E-03	0.1701028		
A_33_P3256470	5.74E-03	-0.2175145	C12orf63	chromosome 12 open reading frame 63
A_24_P242609	5.74E-03	-0.2156036	KLHL12	kelch-like 12 (Drosophila)
A_23_P129577	5.72E-03	-0.1651044	TIGD7	tigger transposable element derived 7
A_33_P3423504	5.72E-03	0.1729755	MAGEB17	melanoma antigen family B, 17
A_33_P3230658	5.71E-03	-0.1717861	TSNAX	translin-associated factor X
A_23_P99967	5.71E-03	-0.2769111	BBS4	Bardet-Biedl syndrome 4
A_33_P3289870	5.70E-03	-0.2671762		
A_33_P3247489	5.70E-03	0.3170399	C11orf85	chromosome 11 open reading frame 85
A_23_P218637	5.70E-03	-0.2522985	RGPD5	RANBP2-like and GRIP domain containing 5
A_33_P3349496	5.70E-03	0.1805263		
A_33_P3389133	5.70E-03	-0.2997772	MINPP1	multiple inositol-polyphosphate phosphatase 1
A_23_P17821	5.69E-03	0.1833491	PLA2G3	phospholipase A2, group III
A_23_P106127	5.68E-03	-0.1884368	KIAA0586	KIAA0586
A_33_P3284584	5.68E-03	-0.2925714		
A_33_P3268863	5.68E-03	0.4479316	C11orf44	chromosome 11 open reading frame 44

A_23_P157316	5.68E-03	-0.242069	C7orf34	chromosome 7 open reading frame 34
A_24_P341000	5.67E-03	0.6480271		
A_24_P917886	5.67E-03	0.2121918	MUC5AC	mucin 5AC, oligomeric mucus/gel-forming
A_33_P3231319	5.67E-03	0.5155236		
A_23_P51117	5.67E-03	0.1944001	ETAA1	Ewing tumor-associated antigen 1
A_33_P3244181	5.67E-03	-0.1758565	HSBP1	heat shock factor binding protein 1
A_33_P3267745	5.67E-03	0.182711		
A_24_P373844	5.66E-03	-0.371833	KCTD15	potassium channel tetramerisation domain containing 15
A_33_P3318465	5.66E-03	-0.1885564	SUMO1	SMT3 suppressor of mif two 3 homolog 1 (<i>S. cerevisiae</i>)
A_33_P3219821	5.65E-03	0.1971597	FMN2	formin 2
A_33_P3389271	5.64E-03	-0.2122893		
A_23_P165130	5.64E-03	-0.1467779	MPV17L2	MPV17 mitochondrial membrane protein-like 2
A_33_P3409422	5.63E-03	0.1891045		
A_33_P3370305	5.63E-03	-0.2009282	TMEM106A	transmembrane protein 106A
A_32_P407293	5.62E-03	-0.1655544	PRR18	proline rich 18
A_33_P3366336	5.62E-03	-0.1737041	SBK1	SH3-binding domain kinase 1
A_23_P93389	5.61E-03	0.1919576	NUDT3	nudix (nucleoside diphosphate linked moiety X)-type motif 3
A_33_P3281532	5.60E-03	-0.2057123	RMND5A	required for meiotic nuclear division 5 homolog A (<i>S. cerevisiae</i>)
A_23_P346800	5.60E-03	-0.2033418	AVPR2	arginine vasopressin receptor 2
A_33_P3306307	5.60E-03	0.2150934	KRT26	keratin 26
A_33_P3374221	5.59E-03	0.1668632	LOC643936	uncharacterized LOC643936
A_33_P3336696	5.59E-03	-0.4732014	ND4L	NADH dehydrogenase, subunit 4L (complex I)
A_23_P15639	5.58E-03	-0.1659028	C17orf75	chromosome 17 open reading frame 75
A_33_P3354084	5.58E-03	-0.2332314	RPF1	ribosome production factor 1 homolog (<i>S. cerevisiae</i>)
A_33_P3318459	5.58E-03	-0.1683879	SUMO1	SMT3 suppressor of mif two 3 homolog 1 (<i>S. cerevisiae</i>)
A_32_P225854	5.57E-03	0.2680943	SPRED2	sprouty-related, EVH1 domain containing 2
A_23_P39931	5.57E-03	0.4104885	DYSF	dysferlin, limb girdle muscular dystrophy 2B (autosomal recessive)
A_23_P13663	5.57E-03	0.2481323	FAM60A	family with sequence similarity 60, member A
A_23_P321511	5.57E-03	0.3127394		3-Mar membrane-associated ring finger (C3HC4) 3
A_33_P3305790	5.56E-03	0.2503109	NOS3	nitric oxide synthase 3 (endothelial cell)
A_23_P205370	5.56E-03	0.1591211	ASB2	ankyrin repeat and SOCS box containing 2
A_33_P3386344	5.55E-03	0.3964427	FANCA	Fanconi anemia, complementation group A
A_24_P399362	5.54E-03	-0.2748687	PSMG2	proteasome (prosome, macropain) assembly chaperone 2
A_23_P98744	5.54E-03	-0.1938255	OR52K2	olfactory receptor, family 52, subfamily K, member 2
A_33_P3251283	5.54E-03	-0.3541586	CTAGE4	CTAGE family, member 4
A_33_P3266780	5.53E-03	-0.1945363	PODXL2	podocalyxin-like 2
A_33_P3407350	5.53E-03	0.2706987	DBX1	developing brain homeobox 1
A_33_P3238074	5.53E-03	0.3723531	SMCR7L	Smith-Magenis syndrome chromosome region, candidate 7-like
A_24_P664850	5.52E-03	0.2635811	ST8SIA2	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 2
A_33_P3255131	5.52E-03	0.2257827	KCTD19	potassium channel tetramerisation domain containing 19
A_23_P111492	5.50E-03	-0.2027155	MOSPD3	motile sperm domain containing 3

A_33_P3280875	5.50E-03	0.2049467	IVNS1ABP	influenza virus NS1A binding protein
A_32_P204989	5.49E-03	-0.2014814	LOC100128922	connexin
A_33_P3214310	5.49E-03	0.1925775	FOXP1	forkhead box P1
A_33_P3610768	5.48E-03	-0.2610911	LOC100131490	uncharacterized LOC100131490
A_33_P3411333	5.48E-03	0.2528051	CHIT1	chitinase 1 (chitotriosidase)
A_33_P3615334	5.48E-03	0.1655382		
A_23_P121326	5.47E-03	-0.2147524	CYB561D2	cytochrome b-561 domain containing 2
A_23_P112311	5.46E-03	0.1666639	TRIM32	tripartite motif containing 32
A_32_P205110	5.46E-03	-0.944009	FOXC1	forkhead box C1
A_33_P3212570	5.46E-03	0.2163625		
A_33_P3365596	5.46E-03	-0.2373794	NAPB	N-ethylmaleimide-sensitive factor attachment protein, beta
A_23_P259135	5.46E-03	-0.2020565	NCOA6	nuclear receptor coactivator 6
A_33_P3395675	5.46E-03	-0.1931574		
A_23_P101319	5.46E-03	-0.1842583	ZNF285	zinc finger protein 285
A_33_P3312288	5.45E-03	-0.3335254		
A_32_P152195	5.45E-03	-0.1558615	STAC2	SH3 and cysteine rich domain 2
A_33_P3332175	5.45E-03	-0.1897713		
A_23_P94141	5.45E-03	-0.2501563	RAD54B	RAD54 homolog B (<i>S. cerevisiae</i>)
A_33_P3217147	5.44E-03	0.1659043	GPATCH3	G patch domain containing 3
A_23_P38795	5.43E-03	0.1609124	FPR1	formyl peptide receptor 1
A_33_P3358855	5.43E-03	0.1503929		
A_23_P256933	5.43E-03	-0.2058213	RPL24	ribosomal protein L24
A_23_P104734	5.43E-03	0.2991311	STT3A	STT3, subunit of the oligosaccharyltransferase complex, homolog A (<i>S. cerevisiae</i>)
A_33_P3332006	5.43E-03	-0.1850485	CBX1	chromobox homolog 1
A_23_P13083	5.43E-03	-0.1940731	BARX2	BARX homeobox 2
A_33_P3419139	5.42E-03	0.1875379	KIAA1598	KIAA1598
A_33_P3304707	5.42E-03	0.1454071		
A_23_P104741	5.41E-03	0.1661289	KIRREL3	kin of IRRE like 3 (<i>Drosophila</i>)
A_33_P3218504	5.41E-03	0.1774219	LOC100128869	uncharacterized LOC100128869
A_33_P3519683	5.40E-03	0.1826741	ZBTB8OS	zinc finger and BTB domain containing 8 opposite strand
A_33_P3467752	5.39E-03	0.253587		
A_24_P339858	5.38E-03	-0.254216	C21orf90	chromosome 21 open reading frame 90
A_23_P250478	5.38E-03	0.1611218	PDK3	pyruvate dehydrogenase kinase, isozyme 3
A_23_P1676	5.37E-03	-0.1943559	TMEM218	transmembrane protein 218
A_33_P3396858	5.36E-03	-0.2110481		
A_23_P19619	5.36E-03	0.1729683	HIVEP1	human immunodeficiency virus type I enhancer binding protein 1
A_23_P145247	5.36E-03	0.2512882	ZNF187	zinc finger protein 187
A_24_P314681	5.35E-03	-0.2132439		
A_33_P3304893	5.35E-03	-0.1435791		
A_23_P59616	5.35E-03	-0.2132509	GTF2IRD2	GTF2I repeat domain containing 2
A_24_P941787	5.35E-03	-0.200139	PRPF4B	PRP4 pre-mRNA processing factor 4 homolog B (yeast)

A_23_P170649	5.35E-03	-0.1899427	C8orf84	chromosome 8 open reading frame 84
A_23_P501193	5.34E-03	-0.172743	KCNJ16	potassium inwardly-rectifying channel, subfamily J, member 16
A_23_P104025	5.34E-03	0.2376422	TSEN15	tRNA splicing endonuclease 15 homolog (S. cerevisiae)
A_33_P3285334	5.33E-03	-0.2435467	LOC100130417	uncharacterized LOC100130417
A_23_P165007	5.33E-03	1.3128154	RASGRP4	RAS guanyl releasing protein 4
A_33_P3650224	5.33E-03	-0.1823658	CXorf49B	chromosome X open reading frame 49B
A_33_P3354141	5.33E-03	-0.2478121	MAP4	microtubule-associated protein 4
A_32_P386636	5.32E-03	-0.1974745	FAM170A	family with sequence similarity 170, member A
A_33_P3220047	5.32E-03	-0.1478965	AKNA	AT-hook transcription factor
A_33_P3364607	5.31E-03	0.2712824	LOC100130051	uncharacterized LOC100130051
A_32_P23624	5.31E-03	-0.2624489	ABCB10	ATP-binding cassette, sub-family B (MDR/TAP), member 10
A_24_P873414	5.31E-03	0.1716637	PLEKHB2	pleckstrin homology domain containing, family B (evectins) member 2
A_23_P144126	5.31E-03	0.1904268	FETUB	fetuin B
A_33_P3399492	5.30E-03	0.3358059	SDHA	succinate dehydrogenase complex, subunit A, flavoprotein (Fp)
A_23_P326020	5.29E-03	0.2059368	CSMD3	CUB and Sushi multiple domains 3
A_23_P123256	5.29E-03	0.4178315	PDAP1	PDGFA associated protein 1
A_33_P3249731	5.29E-03	0.2183929		
A_33_P3409302	5.29E-03	-0.1603609	COX15	COX15 homolog, cytochrome c oxidase assembly protein (yeast)
A_33_P3283833	5.28E-03	-0.2324209	FOXS1	forkhead box S1
A_23_P151975	5.28E-03	0.4373883	RHCG	Rh family, C glycoprotein
A_23_P4545	5.28E-03	0.1672093	MRO	maestro
A_24_P135483	5.26E-03	-0.3463958	TSPAN14	tetraspanin 14
A_23_P393777	5.26E-03	0.2201221	PTGDR	prostaglandin D2 receptor (DP)
A_33_P3800496	5.25E-03	-0.1643143	SNORA46	small nucleolar RNA, H/ACA box 46
A_23_P41114	5.24E-03	0.192921	CSTA	cystatin A (stefin A)
A_23_P84359	5.24E-03	0.1979865	SSX5	synovial sarcoma, X breakpoint 5
A_24_P911676	5.23E-03	-0.2427547	SOX4	SRY (sex determining region Y)-box 4
A_33_P3216898	5.23E-03	-0.2653998	LOC286367	FP944
A_23_P85269	5.23E-03	0.2146226	TTN	titin
A_33_P3215023	5.22E-03	-0.1641716	C6orf89	chromosome 6 open reading frame 89
A_23_P209933	5.22E-03	-0.2160211	TGOLN2	trans-golgi network protein 2
A_33_P3302390	5.21E-03	0.2008918		
A_33_P3636590	5.21E-03	-0.3467945	SUCLG2	succinate-CoA ligase, GDP-forming, beta subunit
A_23_P105012	5.20E-03	0.1416828	HRASLS2	HRAS-like suppressor 2
A_33_P3285024	5.19E-03	-0.1959639	TMEM203	transmembrane protein 203
A_33_P3268313	5.18E-03	0.2717236	PGAM2	phosphoglycerate mutase 2 (muscle)
A_33_P3298552	5.18E-03	0.2313376		
A_33_P3395743	5.18E-03	-0.2201474	VWA1	von Willebrand factor A domain containing 1
A_24_P16340	5.18E-03	-0.2932386		
A_24_P3415	5.18E-03	-0.349099	PPP2R2C	protein phosphatase 2, regulatory subunit B, gamma
A_33_P3387951	5.18E-03	-0.2284509	KIAA1244	KIAA1244

A_33_P3260066	5.17E-03	-0.3450275	BEAN1	brain expressed, associated with NEDD4, 1
A_23_P112548	5.17E-03	-0.1544286	HDHD3	haloacid dehalogenase-like hydrolase domain containing 3
A_23_P155596	5.16E-03	-0.1665379	FMO3	flavin containing monooxygenase 3
A_33_P3604069	5.16E-03	-0.1649538		
A_23_P142994	5.16E-03	-0.1667764	RBM45	RNA binding motif protein 45
A_23_P122896	5.15E-03	0.2727894	TFR2	transferrin receptor 2
A_33_P3239112	5.15E-03	0.3620316	PTCH1	patched 1
A_23_P304524	5.15E-03	-0.391665	DCLK2	doublecortin-like kinase 2
A_33_P3315763	5.15E-03	0.1799298		
A_24_P136124	5.15E-03	-0.2433223		
A_24_P58881	5.14E-03	-0.1867219		
A_23_P403588	5.14E-03	-0.1828326	USP47	ubiquitin specific peptidase 47
A_33_P3352664	5.14E-03	0.2457662	SP7	Sp7 transcription factor
A_23_P57807	5.13E-03	-0.1615451	MKRN2	makorin ring finger protein 2
A_33_P3300092	5.13E-03	-0.1829267	NDST1	N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 1
A_33_P3325671	5.13E-03	0.1729314	LOC100132731	uncharacterized LOC100132731
A_33_P3336282	5.12E-03	0.1720703	TAF4B	TAF4b RNA polymerase II, TATA box binding protein (TBP)-associated factor, 105kDa
A_23_P27400	5.12E-03	0.2755943	HAS1	hyaluronan synthase 1
A_33_P3339696	5.12E-03	-0.2028756		
A_33_P3233666	5.12E-03	0.1496107	RPP30	ribonuclease P/MRP 30kDa subunit
A_23_P45955	5.12E-03	0.1852476	TEKT2	tektin 2 (testicular)
A_23_P417891	5.11E-03	0.2052572	ARHGEF7	Rho guanine nucleotide exchange factor (GEF) 7
A_33_P3230841	5.11E-03	-0.1635308	DUPD1	dual specificity phosphatase and pro isomerase domain containing 1
A_24_P350200	5.11E-03	0.233358	COX3	cytochrome c oxidase III
A_32_P36942	5.10E-03	-0.1693105	TYW5	tRNA-yW synthesizing protein 5
A_33_P3361901	5.10E-03	-0.1786564	PRDM2	PR domain containing 2, with ZNF domain
A_23_P357374	5.10E-03	-0.2445562	PTH2	parathyroid hormone 2
A_24_P7652	5.10E-03	0.2096599	MAP7D2	MAP7 domain containing 2
A_33_P3828101	5.09E-03	-0.2283026	CCDC112	coiled-coil domain containing 112
A_23_P126689	5.08E-03	-0.2311848	USP21	ubiquitin specific peptidase 21
A_23_P398275	5.07E-03	0.1454581	LOC388152	uncharacterized LOC388152
A_33_P3315906	5.05E-03	0.1962502	PTP4A3	protein tyrosine phosphatase type IVA, member 3
A_24_P373126	5.05E-03	0.1960166	TRMT61A	tRNA methyltransferase 61 homolog A (<i>S. cerevisiae</i>)
A_23_P113803	5.04E-03	0.1479899	KATNA1	katanin p60 (ATPase containing) subunit A 1
A_23_P206107	5.03E-03	-0.3029953	ULK3	unc-51-like kinase 3 (<i>C. elegans</i>)
A_23_P251232	5.03E-03	0.2676841	TTY14	testis-specific transcript, Y-linked 14 (non-protein coding)
A_33_P3308468	5.02E-03	-0.2107985	UPB1	ureidopropionase, beta
A_23_P61524	5.02E-03	-0.3063045	CCDC71	coiled-coil domain containing 71
A_23_P422911	5.02E-03	0.2090385	HS6ST3	heparan sulfate 6-O-sulfotransferase 3
A_33_P3275435	5.01E-03	0.2968343	LOC100216545	uncharacterized LOC100216545
A_33_P3418917	5.01E-03	-0.2164058	RUSC1-AS1	RUSC1 antisense RNA 1 (non-protein coding)

A_23_P390116	5.00E-03	0.1735049	SPATA13	spermatogenesis associated 13
A_33_P3340040	5.00E-03	0.2786175	GIN54	GIN5 complex subunit 4 (Sld5 homolog)
A_33_P3255274	5.00E-03	0.172081	CNNM3	cyclin M3
A_33_P3383351	5.00E-03	-0.1541622	COL5A1	collagen, type V, alpha 1
A_24_P164731	5.00E-03	0.2552981	TMED1	transmembrane emp24 protein transport domain containing 1
A_33_P3253528	5.00E-03	-0.2649743	MED20	mediator complex subunit 20
A_33_P3405429	4.99E-03	-0.1845521	VWA5B1	von Willebrand factor A domain containing 5B1
A_33_P3332997	4.99E-03	0.2025206	FOXA1	forkhead box A1
A_32_P60606	4.99E-03	-0.1910163		
A_33_P3387493	4.99E-03	-0.2391001		
A_33_P3405491	4.98E-03	0.1699992	HCRP1	hepatocellular carcinoma-related HCRP1
A_24_P83738	4.97E-03	0.1986427	ASTN2	astrotactin 2
A_24_P82630	4.96E-03	-0.1932014	SMCHD1	structural maintenance of chromosomes flexible hinge domain containing 1
A_23_P370162	4.96E-03	0.6644025	XRRA1	X-ray radiation resistance associated 1
A_23_P101093	4.95E-03	-0.1637098	COPZ2	coatamer protein complex, subunit zeta 2
A_23_P303317	4.95E-03	0.2040586	ZXDC	ZXD family zinc finger C
A_33_P3279379	4.94E-03	-0.2563081	DSTNP2	destrin (actin depolymerizing factor) pseudogene 2
A_32_P935906	4.94E-03	-0.2368672	C8orf77	chromosome 8 open reading frame 77
A_23_P16630	4.94E-03	-0.3175282	OR7A5	olfactory receptor, family 7, subfamily A, member 5
A_23_P30649	4.93E-03	0.2132359	SPACA1	sperm acrosome associated 1
A_33_P3210119	4.93E-03	-0.1863861	HLA-L	major histocompatibility complex, class I, L, pseudogene
A_33_P3546363	4.93E-03	0.3881359	LOC400128	uncharacterized LOC400128
A_24_P892494	4.92E-03	0.1968847	LOC285548	uncharacterized LOC285548
A_23_P7941	4.91E-03	-0.2236704	MRPL2	mitochondrial ribosomal protein L2
A_33_P3336248	4.91E-03	-0.2312128		
A_33_P3671378	4.91E-03	-0.496053	CERCAM	cerebral endothelial cell adhesion molecule
A_33_P3331882	4.90E-03	1.3912383	CRTC1	CREB regulated transcription coactivator 1
A_24_P115700	4.90E-03	-0.1571768	COX15	COX15 homolog, cytochrome c oxidase assembly protein (yeast)
A_33_P3345474	4.88E-03	0.2312948		
A_33_P3249793	4.87E-03	-0.1674018	FOXO4	forkhead box O4
A_32_P69465	4.86E-03	0.17744	MORN2	MORN repeat containing 2
A_33_P3287203	4.86E-03	0.2821527	SLC22A14	solute carrier family 22, member 14
A_23_P12620	4.86E-03	-0.3421064	TNKS2	tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase 2
A_23_P35791	4.85E-03	0.2282618	RPS6KA4	ribosomal protein S6 kinase, 90kDa, polypeptide 4
A_23_P139722	4.85E-03	-0.242771	TNFRSF1A	tumor necrosis factor receptor superfamily, member 1A
A_33_P3325661	4.85E-03	-0.1745026		
A_24_P376322	4.84E-03	0.310268	MBD1	methyl-CpG binding domain protein 1
A_32_P177024	4.83E-03	0.2925168	SBDS	Shwachman-Bodian-Diamond syndrome
A_32_P228268	4.82E-03	0.1869884	DNAH10	dynein, axonemal, heavy chain 10
A_32_P204218	4.81E-03	0.1438686	FAM180A	family with sequence similarity 180, member A
A_33_P3422787	4.80E-03	-0.2719849		

A_24_P178444	4.79E-03	-0.2279646		
A_24_P696470	4.79E-03	0.1502495	HEATR4	HEAT repeat containing 4
A_23_P137856	4.78E-03	-0.1578735	MUC1	mucin 1, cell surface associated
A_24_P146683	4.78E-03	-0.1630446	MSMB	microseminoprotein, beta-
A_24_P414999	4.78E-03	-0.2924771	LAPTM4B	lysosomal protein transmembrane 4 beta
A_33_P3378614	4.77E-03	-0.2319134	UG0898H09	uncharacterized LOC643763
A_24_P302998	4.76E-03	-0.1533744	ATP5I	ATP synthase, H ⁺ transporting, mitochondrial Fo complex, subunit E
A_23_P73023	4.76E-03	0.1980902	TBC1D1	TBC1 (tre-2/USP6, BUB2, cdc16) domain family, member 1
A_32_P231086	4.75E-03	-0.1757244	GOLGA6L9	golgin A6 family-like 9
A_33_P3314121	4.75E-03	-0.2034763		
A_33_P3379231	4.74E-03	-0.2348501		
A_33_P3273238	4.74E-03	-0.1614744	ZNF320	zinc finger protein 320
A_23_P408473	4.74E-03	-0.2737414	HEATR7A	HEAT repeat containing 7A
A_33_P3249066	4.74E-03	-0.2150371		
A_23_P48029	4.73E-03	-0.1847093	CLEC4A	C-type lectin domain family 4, member A
A_33_P3406493	4.73E-03	0.376056	GABBR2	gamma-aminobutyric acid (GABA) B receptor, 2
A_23_P120744	4.73E-03	0.2258823	MCM3AP	minichromosome maintenance complex component 3 associated protein
A_24_P209285	4.73E-03	0.2371725	MRPS10	mitochondrial ribosomal protein S10
A_23_P80068	4.72E-03	0.2822742	BTG3	BTG family, member 3
A_33_P3409266	4.72E-03	-0.2289096	GAFA2	FGF-2 activity-associated protein 2
A_23_P142125	4.72E-03	0.2957317	HRC	histidine rich calcium binding protein
A_33_P3280385	4.72E-03	0.2805574	COL6A3	collagen, type VI, alpha 3
A_23_P149042	4.72E-03	0.2458406	PYCR2	pyrroline-5-carboxylate reductase family, member 2
A_23_P68472	4.72E-03	-0.1627279	DPM1	dolichyl-phosphate mannosyltransferase polypeptide 1, catalytic subunit
A_23_P360302	4.72E-03	0.3379072	GUCY2F	guanylate cyclase 2F, retinal
A_33_P3462692	4.71E-03	-0.2559993	SNORA58	small nucleolar RNA, H/ACA box 58
A_23_P59787	4.70E-03	-0.1600008	LUC7L2	LUC7-like 2 (<i>S. cerevisiae</i>)
A_33_P3345031	4.70E-03	0.1932891		
A_33_P3372674	4.70E-03	-0.2087276	C6orf164	chromosome 6 open reading frame 164
A_23_P256694	4.70E-03	-0.2262419	MCM3AP-AS1	MCM3AP antisense RNA 1 (non-protein coding)
A_33_P3291708	4.70E-03	-0.1565825		
A_24_P53353	4.69E-03	0.2100662	RAB12	RAB12, member RAS oncogene family
A_33_P3348151	4.68E-03	0.223833		
A_23_P15174	4.68E-03	0.2146436	MT1F	metallothionein 1F
A_33_P3265111	4.67E-03	0.1717253	MIR7-3HG	MIR7-3 host gene (non-protein coding)
A_33_P3356926	4.67E-03	-0.1707299	APBB3	amyloid beta (A4) precursor protein-binding, family B, member 3
A_33_P3367717	4.67E-03	0.2667823	USP17	ubiquitin specific peptidase 17
A_33_P3692766	4.67E-03	0.3368192	FLJ46066	uncharacterized LOC401103
A_33_P3259373	4.67E-03	-0.1616277	PAR1	Prader-Willi/Angelman region-1
A_33_P3346048	4.67E-03	-0.2004421	POM121L1P	POM121 membrane glycoprotein-like 1, pseudogene
A_33_P3349325	4.66E-03	0.1900137	RAB28	RAB28, member RAS oncogene family

A_23_P51711	4.65E-03	0.3888502	CELA2B	chymotrypsin-like elastase family, member 2B
A_33_P3247559	4.65E-03	0.1907278	FNDC7	fibronectin type III domain containing 7
A_33_P3356306	4.64E-03	0.1962326	LYG2	lysozyme G-like 2
A_23_P115838	4.64E-03	0.1773648	C10orf12	chromosome 10 open reading frame 12
A_24_P119685	4.62E-03	-0.2057079	OBSCN	obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF
A_23_P211840	4.61E-03	0.3011643	UBA3	ubiquitin-like modifier activating enzyme 3
A_33_P3254751	4.61E-03	-0.1445072	LOC100131355	uncharacterized LOC100131355
A_33_P3649236	4.61E-03	-0.2982025		
A_33_P3337599	4.60E-03	0.3676023	PRKDC	protein kinase, DNA-activated, catalytic polypeptide
A_33_P3349827	4.60E-03	0.3603203	RBM3	RNA binding motif (RNP1, RRM) protein 3
A_33_P3233560	4.60E-03	-0.1773709	UROS	uroporphyrinogen III synthase
A_24_P239811	4.60E-03	0.1849066	UBXN11	UBX domain protein 11
A_23_P209360	4.60E-03	0.2390737	KLHL29	kelch-like 29 (Drosophila)
A_23_P154306	4.60E-03	0.207508	TANK	TRAF family member-associated NFKB activator
A_23_P2725	4.59E-03	-0.2024832	RPL21	ribosomal protein L21
A_33_P3839897	4.59E-03	-0.215605	RNU4ATAC	RNA, U4atac small nuclear (U12-dependent splicing)
A_33_P3300172	4.59E-03	0.1715025	SPON2	spondin 2, extracellular matrix protein
A_33_P3500167	4.59E-03	-0.1584157	ACAN	aggrecan
A_24_P109432	4.59E-03	-0.3058548	NBEAL1	neurobeachin-like 1
A_23_P114282	4.58E-03	0.1830369	MCTS1	malignant T cell amplified sequence 1
A_33_P3226788	4.57E-03	0.6591177		
A_24_P320171	4.57E-03	0.2237479	METTL19	methyltransferase like 19
A_32_P196115	4.56E-03	-0.1747202	ZNF498	zinc finger protein 498
A_32_P465742	4.56E-03	0.1771813	PIP5K1B	phosphatidylinositol-4-phosphate 5-kinase, type I, beta
A_23_P121506	4.55E-03	0.1488831	FAM193A	family with sequence similarity 193, member A
A_33_P3329352	4.55E-03	0.1586931		
A_23_P331770	4.55E-03	-0.2136787	USP49	ubiquitin specific peptidase 49
A_23_P408167	4.55E-03	0.2720168	GPRASP2	G protein-coupled receptor associated sorting protein 2
A_23_P60591	4.55E-03	0.3056569	DNAJC7	DnaJ (Hsp40) homolog, subfamily C, member 7
A_24_P120346	4.52E-03	0.1910545	NIT2	nitrilase family, member 2
A_33_P3389168	4.52E-03	-0.1525672	MTM1	myotubularin 1
A_33_P3447304	4.52E-03	-0.2639187	OXR1	oxidation resistance 1
A_23_P41908	4.52E-03	-0.2394653	FAM114A2	family with sequence similarity 114, member A2
A_23_P426636	4.52E-03	-0.4305668	AHNAK	AHNAK nucleoprotein
A_24_P465772	4.51E-03	-0.2804509	RPSAP52	ribosomal protein SA pseudogene 52
A_24_P48862	4.51E-03	-0.2453978	SNAP29	synaptosomal-associated protein, 29kDa
A_33_P3355937	4.51E-03	-0.1926107	LOC284276	uncharacterized LOC284276
A_33_P3287113	4.50E-03	0.2049528	KIAA1530	KIAA1530
A_33_P3257553	4.50E-03	-0.1737018	CNTRL	centriolin
A_23_P38567	4.50E-03	0.2475959	SPECC1	sperm antigen with calponin homology and coiled-coil domains 1
A_23_P41246	4.49E-03	0.2226799	MFSD10	major facilitator superfamily domain containing 10

A_33_P3270767	4.49E-03	0.2649743		
A_23_P101992	4.48E-03	0.3320788	MARCO	macrophage receptor with collagenous structure
A_24_P276463	4.47E-03	0.1671307	LINC00204B	long intergenic non-protein coding RNA 204B
A_33_P3404116	4.46E-03	-0.2559021		
A_23_P1387	4.45E-03	0.1679961	ARHGAP19	Rho GTPase activating protein 19
A_33_P3257703	4.45E-03	0.2295647	C9orf131	chromosome 9 open reading frame 131
A_23_P122216	4.45E-03	-0.3024225	LOX	lysyl oxidase
A_24_P219474	4.45E-03	0.2312717	MGAT5B	mannosyl (alpha-1,6-)-glycoprotein beta-1,6-N-acetyl-glucosaminyltransferase, isozyme B
A_33_P3328511	4.44E-03	-0.1608524	ARL17B	ADP-ribosylation factor-like 17B
A_23_P100315	4.44E-03	-0.1717045	DECR2	2,4-dienoyl CoA reductase 2, peroxisomal
A_24_P76018	4.44E-03	-0.3786259	C3orf71	chromosome 3 open reading frame 71
A_24_P356916	4.44E-03	0.2071918	SLC13A3	solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3
A_24_P333635	4.43E-03	0.1585515	C10orf62	chromosome 10 open reading frame 62
A_33_P3340189	4.43E-03	0.3742264		
A_23_P74928	4.43E-03	-0.1694003	MR1	major histocompatibility complex, class I-related
A_33_P3227269	4.42E-03	-0.2249867	FLJ45983	uncharacterized LOC399717
A_23_P332908	4.41E-03	-0.2988451	ZFC3H1	zinc finger, C3H1-type containing
A_33_P3305810	4.41E-03	-0.2040802	KIAA1161	KIAA1161
A_33_P3346338	4.41E-03	-0.1771179	WDR67	WD repeat domain 67
A_33_P3331853	4.41E-03	0.2425568	PDE1C	phosphodiesterase 1C, calmodulin-dependent 70kDa
A_32_P94087	4.41E-03	-0.213216	RPL21P44	ribosomal protein L21 pseudogene 44
A_23_P136077	4.39E-03	-0.1610799	PARK2	parkinson protein 2, E3 ubiquitin protein ligase (parkin)
A_23_P51690	4.39E-03	0.1899055	RHBG	Rh family, B glycoprotein (gene/pseudogene)
A_33_P3313796	4.38E-03	-0.290015	CCDC34	coiled-coil domain containing 34
A_24_P215653	4.38E-03	0.2216749	CLEC14A	C-type lectin domain family 14, member A
A_32_P49508	4.38E-03	-0.1871883	HMGCLL1	3-hydroxymethyl-3-methylglutaryl-CoA lyase-like 1
A_33_P3374049	4.37E-03	-0.2890921	KIAA2013	KIAA2013
A_32_P7823	4.37E-03	0.2128936	MAPK1IP1L	mitogen-activated protein kinase 1 interacting protein 1-like
A_33_P3253239	4.37E-03	0.2536334		
A_23_P8055	4.36E-03	-0.2232963	NRM	nurim (nuclear envelope membrane protein)
A_33_P3359061	4.35E-03	0.1530408	YJEFN3	YjeF N-terminal domain containing 3
A_33_P3340025	4.35E-03	0.6241476	GINS1	GINS complex subunit 1 (Psf1 homolog)
A_23_P39616	4.35E-03	0.3210448	ORC2	origin recognition complex, subunit 2
A_33_P3332955	4.34E-03	0.2255644	CLEC1B	C-type lectin domain family 1, member B
A_33_P3412603	4.34E-03	0.1776649		
A_33_P3415500	4.34E-03	0.1965049	TRIO	triple functional domain (PTPRF interacting)
A_24_P41149	4.34E-03	-0.2343542		
A_33_P3287084	4.34E-03	-0.2004572		
A_33_P3230558	4.33E-03	0.4789013	EML5	echinoderm microtubule associated protein like 5
A_32_P227317	4.33E-03	-0.2356468	DDX11L2	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 11 like 2
A_33_P3246248	4.33E-03	-0.1805073	LOC729879	uncharacterized LOC729879

A_23_P74252	4.32E-03	-0.2214343	LINC00339	long intergenic non-protein coding RNA 339
A_23_P150428	4.32E-03	0.1810216	OR6M1	olfactory receptor, family 6, subfamily M, member 1
A_24_P167984	4.32E-03	0.2148823	ATMIN	ATM interactor
A_33_P3272957	4.32E-03	-0.2771781	LOC100133311	uncharacterized LOC100133311
A_23_P331560	4.31E-03	-0.2492076	SLC26A4	solute carrier family 26, member 4
A_32_P222383	4.31E-03	0.2062809	HMG2	high mobility group nucleosomal binding domain 2
A_23_P15705	4.31E-03	-0.2043361	PSMB6	proteasome (prosome, macropain) subunit, beta type, 6
A_23_P109768	4.31E-03	-0.1611583	RNF7	ring finger protein 7
A_23_P167017	4.30E-03	0.2481567	POPDC2	popeye domain containing 2
A_24_P291588	4.30E-03	0.1660156	DVL3	dishevelled, dsh homolog 3 (Drosophila)
A_33_P3355762	4.30E-03	0.2549224		
A_33_P3383149	4.30E-03	-0.3550149	ZCWPW2	zinc finger, CW type with PWWP domain 2
A_33_P3258617	4.30E-03	-0.177836	PLIN2	perilipin 2
A_33_P3213645	4.30E-03	0.2489263	ERN2	endoplasmic reticulum to nucleus signaling 2
A_24_P323114	4.29E-03	0.3917764	ANXA2P3	annexin A2 pseudogene 3
A_23_P71480	4.29E-03	-0.2317283	DEFB1	defensin, beta 1
A_24_P98249	4.29E-03	0.2340504	TACC1	transforming, acidic coiled-coil containing protein 1
A_33_P3482466	4.29E-03	-0.1420577		
A_33_P3226460	4.28E-03	0.2396691		
A_23_P94795	4.27E-03	-0.2104111	TEAD4	TEA domain family member 4
A_33_P3226380	4.27E-03	0.1832988	LOC731275	uncharacterized LOC731275
A_33_P3398965	4.27E-03	-0.2177949	CALML4	calmodulin-like 4
A_23_P161968	4.26E-03	0.7193005	SLC22A10	solute carrier family 22, member 10
A_23_P205768	4.26E-03	0.1695521	ARPP19	cAMP-regulated phosphoprotein, 19kDa
A_33_P3214939	4.26E-03	0.1585478	GOLGA6L5	golgin A6 family-like 5 (pseudogene)
A_33_P3253682	4.26E-03	-0.1587735	PPIL3	peptidylprolyl isomerase (cyclophilin)-like 3
A_23_P17844	4.26E-03	-0.1738518	PVALB	parvalbumin
A_32_P83049	4.24E-03	1.4010907	EFR3B	EFR3 homolog B (<i>S. cerevisiae</i>)
A_23_P142310	4.24E-03	0.4112441	MKNK2	MAP kinase interacting serine/threonine kinase 2
A_33_P3235731	4.23E-03	0.2417174		
A_33_P3277259	4.23E-03	-0.2219837	PCYT2	phosphate cytidyltransferase 2, ethanolamine
A_33_P3216651	4.23E-03	0.2983676	LRTOMT	leucine rich transmembrane and O-methyltransferase domain containing
A_23_P135778	4.22E-03	-0.1646951	PPP2R2D	protein phosphatase 2, regulatory subunit B, delta
A_33_P3297823	4.22E-03	0.2482184		
A_23_P66050	4.22E-03	-0.2776026	B3GNT9	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 9
A_33_P3396129	4.22E-03	0.2928754	KATNB1	katanin p80 (WD repeat containing) subunit B 1
A_23_P150979	4.21E-03	-0.2045967	MUCL1	mucin-like 1
A_33_P3380682	4.21E-03	-0.2030116	TBPL1	TBP-like 1
A_33_P3400292	4.21E-03	0.2100562		
A_33_P3233886	4.20E-03	-0.1769242	LOC100505873	putative apoptosis-related protein 2-like
A_33_P3391536	4.20E-03	0.3006401		

A_33_P3420879	4.20E-03	-0.1993047	LOC646482	uncharacterized LOC646482
A_33_P3640101	4.20E-03	-0.2744877	LOC400684	uncharacterized LOC400684
A_24_P704446	4.19E-03	0.6734131	TMEM72	transmembrane protein 72
A_33_P3276455	4.19E-03	-0.2937733	KDM5B	lysine (K)-specific demethylase 5B
A_23_P377094	4.18E-03	0.2483523	PNMA3	paraneoplastic antigen MA3
A_23_P215534	4.18E-03	-0.1693774	RBM33	RNA binding motif protein 33
A_33_P3268734	4.17E-03	0.1688396		
A_32_P107746	4.16E-03	-0.2931934	ENSA	endosulfine alpha
A_33_P3397865	4.15E-03	0.2151078	TNNT1	troponin T type 1 (skeletal, slow)
A_33_P3232637	4.15E-03	-0.2307107		
A_33_P3294153	4.15E-03	-0.1858631	CALY	calcyon neuron-specific vesicular protein
A_33_P3217470	4.14E-03	0.1721591		
A_33_P3300877	4.14E-03	1.2178981		
A_33_P3302312	4.14E-03	-0.2339712	IER5L	immediate early response 5-like
A_23_P348208	4.14E-03	0.330081	SPRR1A	small proline-rich protein 1A
A_23_P209799	4.14E-03	-0.2465723	MYO7B	myosin VIIB
A_33_P3349265	4.14E-03	0.1760964	GLYATL3	glycine-N-acyltransferase-like 3
A_33_P3281867	4.13E-03	-0.1818145		
A_33_P3288649	4.12E-03	0.8109751	HOXA10	homeobox A10
A_24_P391574	4.12E-03	-0.1902528	LDLRAD3	low density lipoprotein receptor class A domain containing 3
A_33_P3286312	4.11E-03	-0.155856		
A_24_P177948	4.11E-03	-0.2442051	DPY19L2	dpy-19-like 2 (C. elegans)
A_33_P3274129	4.10E-03	0.2171418	TMEM151B	transmembrane protein 151B
A_23_P251647	4.10E-03	-0.1728594	RFESD	Rieske (Fe-S) domain containing
A_23_P156807	4.10E-03	0.8894435	CFLAR	CASP8 and FADD-like apoptosis regulator
A_23_P381461	4.09E-03	0.3061312	LRRC45	leucine rich repeat containing 45
A_23_P118038	4.09E-03	0.2545544	NUTF2	nuclear transport factor 2
A_33_P3317664	4.09E-03	-0.3981591	MGAT1	mannosyl (alpha-1,3-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase
A_33_P3281728	4.07E-03	0.1838341		
A_33_P3325102	4.07E-03	0.1880289		
A_24_P418418	4.07E-03	-0.1760651	RPS17	ribosomal protein S17
A_33_P3258330	4.04E-03	-0.2333264	GDPD5	glycerophosphodiester phosphodiesterase domain containing 5
A_33_P3394965	4.04E-03	0.2027943		
A_23_P165783	4.04E-03	0.2569261	MLPH	melanophilin
A_23_P385427	4.03E-03	-0.2332085		
A_23_P2077	4.03E-03	-0.163073	OR4C3	olfactory receptor, family 4, subfamily C, member 3
A_23_P216556	4.02E-03	-0.1888617	EPB41L4B	erythrocyte membrane protein band 4.1 like 4B
A_23_P70733	4.02E-03	0.1865522	TAAR2	trace amine associated receptor 2
A_23_P258814	4.02E-03	0.2151135	DPH3P1	DPH3, KTI11 homolog (S. cerevisiae) pseudogene 1
A_33_P3341841	4.01E-03	0.3780424	RTP2	receptor (chemosensory) transporter protein 2
A_33_P3273885	4.01E-03	-0.2323311		

A_24_P382765	4.01E-03	-0.2240038	NHP2L1	NHP2 non-histone chromosome protein 2-like 1 (<i>S. cerevisiae</i>)
A_33_P3267467	4.01E-03	-0.2106596	RFX3	regulatory factor X, 3 (influences HLA class II expression)
A_32_P169406	4.01E-03	0.2348023	LOC400043	uncharacterized LOC400043
A_33_P3333627	4.01E-03	0.1808902	PHACTR1	phosphatase and actin regulator 1
A_33_P3327687	4.01E-03	0.3832406	LOC727993	uncharacterized LOC727993
A_23_P55779	4.01E-03	0.418956	CYP2A13	cytochrome P450, family 2, subfamily A, polypeptide 13
A_33_P3238976	4.01E-03	-0.2292664	TRMT5	TRM5 tRNA methyltransferase 5 homolog (<i>S. cerevisiae</i>)
A_23_P101380	4.01E-03	-0.3805156	B3GNT8	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 8
A_33_P3353979	4.01E-03	0.2071241	SYT15	synaptotagmin XV
A_23_P376114	4.00E-03	-0.2225208	TAS2R46	taste receptor, type 2, member 46
A_32_P48559	3.99E-03	0.4519782	C16orf92	chromosome 16 open reading frame 92
A_33_P3322504	3.99E-03	-0.2268901		
A_23_P117980	3.99E-03	-0.2886364	KATNB1	katanin p80 (WD repeat containing) subunit B 1
A_23_P99452	3.98E-03	0.2221804	BRCA2	breast cancer 2, early onset
A_33_P3267612	3.98E-03	-0.1912191	MIR143HG	MIR143 host gene (non-protein coding)
A_33_P3353552	3.98E-03	-0.1776945	SLC48A1	solute carrier family 48 (heme transporter), member 1
A_33_P3287825	3.98E-03	0.227532	CCDC136	coiled-coil domain containing 136
A_33_P3261927	3.97E-03	0.1869206	ZNF789	zinc finger protein 789
A_33_P3302791	3.97E-03	0.2333748	LOC730338	uncharacterized LOC730338
A_33_P3346498	3.97E-03	-0.2041972	OPA1	optic atrophy 1 (autosomal dominant)
A_23_P1682	3.97E-03	-0.2066997	TMEM45B	transmembrane protein 45B
A_33_P3397147	3.97E-03	0.1674668	FAM168B	family with sequence similarity 168, member B
A_33_P3570228	3.97E-03	-0.2048253	LOC644962	trinucleotide repeat containing 18 pseudogene
A_32_P159400	3.97E-03	0.2820231	UBR5	ubiquitin protein ligase E3 component n-recognin 5
A_33_P3234347	3.96E-03	0.6814745	AMMECR1	Alport syndrome, mental retardation, midface hypoplasia and elliptocytosis chromosomal region gene
A_23_P51317	3.96E-03	0.1817265	CCDC76	coiled-coil domain containing 76
A_33_P3393245	3.95E-03	-0.2283342	FTSJD2	FtsJ methyltransferase domain containing 2
A_23_P17103	3.95E-03	-0.1926823	TSGA10	testis specific, 10
A_23_P397019	3.94E-03	0.4293547	DNAJC25	DnaJ (Hsp40) homolog, subfamily C, member 25
A_23_P75204	3.93E-03	-0.2502115	NSMCE4A	non-SMC element 4 homolog A (<i>S. cerevisiae</i>)
A_33_P3232627	3.92E-03	-0.1703996	EXOC6B	exocyst complex component 6B
A_33_P3280040	3.92E-03	-0.2293868	ANKRD11	ankyrin repeat domain 11
A_33_P3344564	3.92E-03	-0.187008	C5orf42	chromosome 5 open reading frame 42
A_24_P242361	3.92E-03	-0.2641668	HS2ST1	heparan sulfate 2-O-sulfotransferase 1
A_33_P3333985	3.91E-03	-0.3791356		
A_33_P3217103	3.91E-03	0.430961	RBFOX2	RNA binding protein, fox-1 homolog (<i>C. elegans</i>) 2
A_33_P3546070	3.91E-03	0.224923	PHF20L1	PHD finger protein 20-like 1
A_23_P68949	3.91E-03	0.1919701	ST13	suppression of tumorigenicity 13 (colon carcinoma) (Hsp70 interacting protein)
A_33_P3806295	3.91E-03	-0.3129785		
A_23_P94204	3.91E-03	-0.2930408	OXR1	oxidation resistance 1

A_33_P3417532	3.90E-03	0.1955534	ILDR1	immunoglobulin-like domain containing receptor 1
A_23_P145006	3.90E-03	0.2142476	SCGB3A2	secretoglobin, family 3A, member 2
A_23_P256473	3.89E-03	0.3555965	SEMA3C	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C
A_23_P54000	3.89E-03	-0.2614993	SNX6	sorting nexin 6
A_33_P3248035	3.89E-03	-0.1916017		
A_23_P18493	3.89E-03	0.4600011	PTPN13	protein tyrosine phosphatase, non-receptor type 13 (APO-1/CD95 (Fas)-associated phosphatase)
A_33_P3255814	3.89E-03	-0.2021516	MRS2	MRS2 magnesium homeostasis factor homolog (<i>S. cerevisiae</i>)
A_23_P4416	3.89E-03	-0.2621377	ZNF287	zinc finger protein 287
A_33_P3333787	3.88E-03	0.2386439		
A_23_P54006	3.88E-03	-0.2032275	HECTD1	HECT domain containing 1
A_33_P3336252	3.87E-03	-0.2666763	OR7E37P	olfactory receptor, family 7, subfamily E, member 37 pseudogene
A_33_P3363168	3.87E-03	0.2275924	SSH2	slingshot homolog 2 (<i>Drosophila</i>)
A_33_P3303602	3.86E-03	-0.236049	DGKZ	diacylglycerol kinase, zeta
A_23_P141549	3.86E-03	-0.1908374	RPS7	ribosomal protein S7
A_23_P374689	3.86E-03	-0.3208683	GAD1	glutamate decarboxylase 1 (brain, 67kDa)
A_32_P21579	3.86E-03	-0.237909	TRDMT1	tRNA aspartic acid methyltransferase 1
A_23_P326009	3.86E-03	-0.3307515	ZNF471	zinc finger protein 471
A_33_P3420266	3.86E-03	-0.214987	ANKRD20A2	ankyrin repeat domain 20 family, member A2
A_33_P3866448	3.85E-03	0.2021672	LOC286299	uncharacterized LOC286299
A_23_P309396	3.85E-03	0.1732964	RP1L1	retinitis pigmentosa 1-like 1
A_32_P8221	3.84E-03	0.2355805	GRM8	glutamate receptor, metabotropic 8
A_33_P3321070	3.84E-03	-0.1890745	WNT4	wingless-type MMTV integration site family, member 4
A_33_P3345708	3.84E-03	-0.1824178	CREB3L4	cAMP responsive element binding protein 3-like 4
A_23_P20876	3.83E-03	0.1946402	PTPDC1	protein tyrosine phosphatase domain containing 1
A_33_P3319943	3.83E-03	-0.1919847	ATRX	alpha thalassemia/mental retardation syndrome X-linked
A_33_P3306267	3.83E-03	0.1658673	PAX6	paired box 6
A_24_P250499	3.82E-03	-0.2923815	RPRD1B	regulation of nuclear pre-mRNA domain containing 1B
A_33_P3406998	3.81E-03	-0.2554425	DYRK1A	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A
A_33_P3563369	3.79E-03	0.2277322	RPS2	ribosomal protein S2
A_23_P362659	3.79E-03	0.2705148	MYD88	myeloid differentiation primary response gene (88)
A_33_P3292387	3.79E-03	-0.1967845	LRRIQ3	leucine-rich repeats and IQ motif containing 3
A_24_P371281	3.79E-03	-0.1953262	TMEM22	transmembrane protein 22
A_33_P3412353	3.79E-03	0.2027952	ZNF268	zinc finger protein 268
A_23_P205389	3.79E-03	-0.27027	MOAP1	modulator of apoptosis 1
A_23_P434289	3.79E-03	0.1945106	GPR62	G protein-coupled receptor 62
A_33_P3220857	3.77E-03	0.1757088	C9orf64	chromosome 9 open reading frame 64
A_23_P99785	3.77E-03	0.1953666	FAM164C	family with sequence similarity 164, member C
A_33_P3340762	3.76E-03	0.1809477		
A_23_P114061	3.76E-03	-0.1451868	TRPM3	transient receptor potential cation channel, subfamily M, member 3
A_33_P3392677	3.76E-03	-0.1952877		

A_23_P94736	3.76E-03	0.1633592	ST6GALNAC4	ST6 (alpha-N-acetyl-neuraminy-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-
A_33_P3236102	3.76E-03	0.218217	IER5L	immediate early response 5-like
A_23_P319859	3.76E-03	-0.2147112	EYA2	eyes absent homolog 2 (Drosophila)
A_23_P164826	3.76E-03	0.2154355	RNASEH2A	ribonuclease H2, subunit A
A_33_P3351316	3.76E-03	0.2313196	FAM198A	family with sequence similarity 198, member A
A_24_P172993	3.75E-03	0.2683479	UBE2O	ubiquitin-conjugating enzyme E2O
A_33_P3825869	3.75E-03	-0.1796553	CACNA1C	calcium channel, voltage-dependent, L type, alpha 1C subunit
A_33_P3215305	3.74E-03	-0.2238624	ANKRD62	ankyrin repeat domain 62
A_33_P3334313	3.73E-03	0.2077263	ACTR3B	ARP3 actin-related protein 3 homolog B (yeast)
A_33_P3359306	3.73E-03	-0.3000847	MTA1	metastasis associated 1
A_33_P3235048	3.73E-03	-0.1760867	TRIM77P	tripartite motif containing 77, pseudogene
A_23_P153628	3.73E-03	0.2077515	YIF1B	Yip1 interacting factor homolog B (S. cerevisiae)
A_23_P356646	3.73E-03	0.3033533	MAFIP	MAFF interacting protein
A_24_P30314	3.73E-03	-0.2433557	SCYL1	SCY1-like 1 (S. cerevisiae)
A_33_P3342613	3.73E-03	-0.2007977	ZDHHC8	zinc finger, DHHC-type containing 8
A_33_P3292495	3.72E-03	-0.2390292		
A_23_P209032	3.72E-03	-0.2322161	ZNF302	zinc finger protein 302
A_33_P3372397	3.72E-03	0.2577525		
A_33_P3252834	3.71E-03	0.1817431	PHLDA3	pleckstrin homology-like domain, family A, member 3
A_23_P16976	3.71E-03	-0.2882958	ANXA4	annexin A4
A_33_P3264163	3.70E-03	0.2508558	DDR1	discoidin domain receptor tyrosine kinase 1
A_24_P143076	3.70E-03	-0.1883349	FAM109A	family with sequence similarity 109, member A
A_33_P3412317	3.70E-03	-0.256877		
A_24_P48587	3.70E-03	-0.2372154	PSENE1	presenilin enhancer 2 homolog (C. elegans)
A_24_P935009	3.69E-03	0.1812363	CRKL	v-crk sarcoma virus CT10 oncogene homolog (avian)-like
A_33_P3413048	3.69E-03	0.3195739	PLXNA3	plexin A3
A_23_P4944	3.67E-03	-0.2426048	CALM3	calmodulin 3 (phosphorylase kinase, delta)
A_23_P99373	3.67E-03	0.1661226	RNF17	ring finger protein 17
A_24_P262355	3.67E-03	0.2566268	PHB	prohibitin
A_33_P3321417	3.66E-03	-0.2396383	DMAP1	DNA methyltransferase 1 associated protein 1
A_24_P944827	3.65E-03	-0.210477	ATG7	ATG7 autophagy related 7 homolog (S. cerevisiae)
A_24_P20383	3.65E-03	-0.1769843	ARPC4	actin related protein 2/3 complex, subunit 4, 20kDa
A_24_P282416	3.65E-03	-0.2514144	ABL1	c-abl oncogene 1, non-receptor tyrosine kinase
A_23_P305692	3.65E-03	-0.2317813	ELMOD2	ELMO/CED-12 domain containing 2
A_23_P202810	3.65E-03	0.20154	OVOL1	ovo-like 1(Drosophila)
A_33_P3282390	3.65E-03	0.3648283	GRM4	glutamate receptor, metabotropic 4
A_33_P3291816	3.64E-03	0.2530044	CLDN22	claudin 22
A_33_P3435493	3.64E-03	-0.3093821	LOC400768	uncharacterized LOC400768
A_33_P3384652	3.63E-03	-0.2509754		
A_23_P25974	3.63E-03	0.2346118	TTC7B	tetratricopeptide repeat domain 7B
A_33_P3289222	3.62E-03	0.2086198	LRRC41	leucine rich repeat containing 41

A_32_P377008	3.62E-03	0.1798423		
A_23_P95050	3.62E-03	-0.2275078	ARFIP1	ADP-ribosylation factor interacting protein 1
A_23_P421526	3.62E-03	0.2569529	ODF4	outer dense fiber of sperm tails 4
A_33_P3236632	3.62E-03	-0.4224689	MIA3	melanoma inhibitory activity family, member 3
A_23_P217068	3.62E-03	-0.2419492	RPL12	ribosomal protein L12
A_33_P3360236	3.61E-03	0.2645959	LOC100506351	uncharacterized LOC100506351
A_33_P3444555	3.61E-03	-0.2361217	LOC158960	uncharacterized protein BC009467
A_23_P2942	3.61E-03	-0.221913	NPAS3	neuronal PAS domain protein 3
A_24_P363408	3.61E-03	0.2024634	HEY2	hairy/enhancer-of-split related with YRPW motif 2
A_33_P3341906	3.59E-03	-0.3103193	C10orf128	chromosome 10 open reading frame 128
A_23_P308042	3.59E-03	0.3971835	C6orf195	chromosome 6 open reading frame 195
A_23_P59005	3.59E-03	0.1661332	TAP1	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)
A_24_P674924	3.59E-03	-0.1979702	LRPPRC	leucine-rich PPR-motif containing
A_33_P3215933	3.59E-03	0.2572746	MPZL3	myelin protein zero-like 3
A_32_P41292	3.58E-03	-0.2256669	VDAC2	voltage-dependent anion channel 2
A_33_P3234814	3.58E-03	-0.1921102		
A_33_P3367761	3.58E-03	0.2807894		
A_33_P3209326	3.57E-03	-0.2579877	LOC729558	uncharacterized LOC729558
A_33_P3408162	3.57E-03	0.3724195		
A_33_P3234697	3.57E-03	-0.2797653	LXN	latexin
A_33_P3417517	3.57E-03	0.208044	BRD8	bromodomain containing 8
A_33_P3257523	3.57E-03	0.2874681		
A_33_P3374553	3.56E-03	0.2053937		
A_33_P3228988	3.56E-03	0.2170405	ZNF799	zinc finger protein 799
A_33_P3268005	3.56E-03	-0.207243	FAM120AOS	family with sequence similarity 120A opposite strand
A_33_P3274618	3.56E-03	0.2281545	LOC731275	uncharacterized LOC731275
A_33_P3211965	3.55E-03	0.1993438	LOC647086	chromosome 20 open reading frame 27 pseudogene
A_33_P3338956	3.55E-03	0.2766147	ARL8B	ADP-ribosylation factor-like 8B
A_24_P52004	3.54E-03	0.1705837	PDS5A	PDS5, regulator of cohesion maintenance, homolog A (<i>S. cerevisiae</i>)
A_33_P3397795	3.54E-03	0.2594115	C14orf135	chromosome 14 open reading frame 135
A_32_P19294	3.54E-03	0.1962488	GLT1D1	glycosyltransferase 1 domain containing 1
A_23_P412392	3.54E-03	0.2163029	SEC22B	SEC22 vesicle trafficking protein homolog B (<i>S. cerevisiae</i>) (gene/pseudogene)
A_33_P3383871	3.54E-03	0.2536666	FEM1C	fem-1 homolog c (<i>C. elegans</i>)
A_24_P50091	3.53E-03	-0.1780772	DNM1P46	DNM1 pseudogene 46
A_33_P3415962	3.53E-03	0.2245724		
A_33_P3347035	3.53E-03	0.2244173		
A_33_P3257628	3.53E-03	-0.3041015	COG4	component of oligomeric golgi complex 4
A_33_P3407672	3.52E-03	-0.2189133	KRTAP22-1	keratin associated protein 22-1
A_33_P3354067	3.52E-03	0.2340573		
A_33_P3423202	3.52E-03	0.2480537		
A_23_P417148	3.52E-03	-0.2188871	RAI1	retinoic acid induced 1

A_33_P3344127	3.52E-03	0.1743296	HIST1H2AC	histone cluster 1, H2ac
A_23_P159775	3.52E-03	-0.2503231	GABRE	gamma-aminobutyric acid (GABA) A receptor, epsilon
A_23_P201047	3.52E-03	-0.3476347	THBS3	thrombospondin 3
A_33_P3315836	3.52E-03	0.3966179		
A_33_P3220302	3.51E-03	0.1687166		
A_24_P132813	3.51E-03	-0.175856	OPALIN	oligodendrocytic myelin paranodal and inner loop protein
A_23_P94911	3.51E-03	0.2490936	ZNF283	zinc finger protein 283
A_24_P458479	3.51E-03	-0.224252		
A_33_P3342752	3.50E-03	0.2334822		
A_24_P693461	3.50E-03	-0.1915715	SFTA3	surfactant associated 3
A_33_P3326312	3.49E-03	0.3275328		
A_23_P69670	3.48E-03	-0.2329045	CNO	cappuccino homolog (mouse)
A_33_P3243248	3.48E-03	0.2049505	ZNFX1	zinc finger, NFX1-type containing 1
A_23_P95640	3.48E-03	0.3060971	C1orf186	chromosome 1 open reading frame 186
A_33_P3345549	3.48E-03	0.3077848	L2HGDH	L-2-hydroxyglutarate dehydrogenase
A_33_P3290709	3.48E-03	-0.1843012	EGFL6	EGF-like-domain, multiple 6
A_23_P73413	3.47E-03	-0.2320022	SLC26A7	solute carrier family 26, member 7
A_23_P202837	3.47E-03	0.4063578	CCND1	cyclin D1
A_33_P3345186	3.47E-03	-0.2118371	CHST13	carbohydrate (chondroitin 4) sulfotransferase 13
A_24_P271527	3.47E-03	-0.2176459	JOSD1	Josephin domain containing 1
A_33_P3352712	3.47E-03	0.2569488	CDR2L	cerebellar degeneration-related protein 2-like
A_23_P24763	3.46E-03	0.2217003	RPS13	ribosomal protein S13
A_23_P416142	3.46E-03	0.289183	DLG1	discs, large homolog 1 (Drosophila)
A_33_P3406623	3.46E-03	-0.2084779	TNFSF12	tumor necrosis factor (ligand) superfamily, member 12
A_23_P130429	3.46E-03	-0.231733	ROCK1	Rho-associated, coiled-coil containing protein kinase 1
A_33_P3815064	3.46E-03	0.2177332	LOC283575	uncharacterized LOC283575
A_33_P3384988	3.46E-03	-0.2237758	SLC30A5	solute carrier family 30 (zinc transporter), member 5
A_23_P16944	3.46E-03	-0.2484241	SDC1	syndecan 1
A_33_P3336387	3.46E-03	-0.2953609	PAOX	polyamine oxidase (exo-N4-amino)
A_23_P119763	3.45E-03	-0.1766995	ABCG5	ATP-binding cassette, sub-family G (WHITE), member 5
A_33_P3400286	3.45E-03	0.2426027		
A_33_P3271651	3.45E-03	-0.2421921	HLA-DPB1	major histocompatibility complex, class II, DP beta 1
A_33_P3253687	3.44E-03	-0.2843634	GVINP1	GTPase, very large interferon inducible pseudogene 1
A_33_P3291034	3.44E-03	0.2246523	C1QTNF8	C1q and tumor necrosis factor related protein 8
A_33_P3545095	3.44E-03	0.2186386	LOC100287704	uncharacterized LOC100287704
A_33_P3229918	3.43E-03	0.1737461	PTCRA	pre T-cell antigen receptor alpha
A_23_P6708	3.43E-03	0.21959	LOC152217	uncharacterized LOC152217
A_23_P306479	3.42E-03	-0.2317731	LOC100009676	uncharacterized LOC100009676
A_23_P30547	3.42E-03	0.2538557	LCP2	lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte protein of 76kDa)
A_23_P355455	3.42E-03	-0.2278174	TBC1D5	TBC1 domain family, member 5
A_33_P3291891	3.42E-03	0.2366054	LOC100292905	uncharacterized LOC100292905

A_33_P3257428	3.42E-03	0.2864963		
A_23_P15369	3.41E-03	0.3697522	CD300LB	CD300 molecule-like family member b
A_23_P55688	3.41E-03	0.1916826	ZNF416	zinc finger protein 416
A_24_P210637	3.41E-03	-0.2202694	CHST14	carbohydrate (N-acetylgalactosamine 4-0) sulfotransferase 14
A_24_P310756	3.41E-03	0.2249824	FBXO28	F-box protein 28
A_23_P353005	3.41E-03	-0.1773008	RNF217	ring finger protein 217
A_23_P164042	3.40E-03	0.2674428	ERN1	endoplasmic reticulum to nucleus signaling 1
A_33_P3375541	3.39E-03	0.3547071	CD3D	CD3d molecule, delta (CD3-TCR complex)
A_33_P3257232	3.39E-03	-0.2500898	TAF10	TAF10 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 30kDa
A_33_P3483909	3.39E-03	0.2492809		
A_32_P230547	3.39E-03	0.1978754	DOCK7	dedicator of cytokinesis 7
A_33_P3306264	3.39E-03	-0.1683476	LYPD3	LY6/PLAUR domain containing 3
A_33_P3248843	3.38E-03	0.2069375		
A_33_P3252539	3.37E-03	-0.1836384	HIGD1C	HIG1 hypoxia inducible domain family, member 1C
A_23_P434301	3.37E-03	-0.6153362	PTMA	prothymosin, alpha
A_32_P26376	3.37E-03	-0.1509236	POGLUT1	protein O-glucosyltransferase 1
A_23_P251303	3.37E-03	0.2420918	SEC16A	SEC16 homolog A (<i>S. cerevisiae</i>)
A_33_P3390212	3.37E-03	0.3559132	TTL9	tubulin tyrosine ligase-like family, member 9
A_23_P140648	3.36E-03	-0.2310478	CYFIP1	cytoplasmic FMR1 interacting protein 1
A_33_P3383331	3.36E-03	-0.2220583	SLC35A3	solute carrier family 35 (UDP-N-acetylglucosamine (UDP-GlcNAc) transporter), member A3
A_23_P319423	3.35E-03	-0.1946693	KCNK5	potassium channel, subfamily K, member 5
A_33_P3229672	3.35E-03	0.2405445		
A_33_P3366456	3.34E-03	0.2868845	HDGFL1	hepatoma derived growth factor-like 1
A_23_P406330	3.34E-03	0.2499362	SMAP2	small ArfGAP2
A_24_P64126	3.33E-03	-0.3159798	CPNE3	copine III
A_23_P202206	3.32E-03	0.2026477	GSTO2	glutathione S-transferase omega 2
A_24_P48539	3.32E-03	0.22583	SIGLEC5	sialic acid binding Ig-like lectin 5
A_33_P3280147	3.32E-03	0.2273833	FLJ45079	FLJ45079 protein
A_24_P228637	3.32E-03	-0.1855463	SETD4	SET domain containing 4
A_33_P3238280	3.32E-03	0.2311511	ESYT3	extended synaptotagmin-like protein 3
A_23_P30294	3.32E-03	0.3315436	CDO1	cysteine dioxygenase, type I
A_23_P82775	3.31E-03	0.2582398	SOX17	SRY (sex determining region Y)-box 17
A_33_P3359683	3.31E-03	0.2670289	IL16	interleukin 16
A_33_P3214803	3.30E-03	0.2244862	PRDM13	PR domain containing 13
A_33_P3352578	3.30E-03	-0.2069861	CLEC4D	C-type lectin domain family 4, member D
A_33_P3245841	3.29E-03	0.265026		
A_33_P3421243	3.29E-03	0.3025271	AFP	alpha-fetoprotein
A_33_P3407626	3.29E-03	0.1705337		
A_23_P49412	3.29E-03	-0.2505414	PRR14	proline rich 14
A_33_P3307910	3.29E-03	0.3292155		
A_23_P165148	3.29E-03	0.3290188	ILVBL	ilvB (bacterial acetolactate synthase)-like

A_33_P3296831	3.29E-03	-0.1653046	TP73	tumor protein p73
A_23_P259823	3.28E-03	0.191879	TRMT61B	tRNA methyltransferase 61 homolog B (<i>S. cerevisiae</i>)
A_23_P66777	3.27E-03	0.2691671	CDC27	cell division cycle 27 homolog (<i>S. cerevisiae</i>)
A_33_P3464900	3.27E-03	0.2675226		
A_33_P3237125	3.26E-03	0.1932898	ANKRD54	ankyrin repeat domain 54
A_24_P179611	3.25E-03	-0.2216246	TPR	translocated promoter region (to activated MET oncogene)
A_33_P3300665	3.25E-03	0.2188372	LRRC39	leucine rich repeat containing 39
A_24_P159036	3.25E-03	-0.1976295	RPL36AL	ribosomal protein L36a-like
A_24_P127159	3.25E-03	0.2841323		
A_23_P256244	3.24E-03	-0.2661458	OXR1	oxidation resistance 1
A_23_P29803	3.23E-03	0.1860217	POLR2H	polymerase (RNA) II (DNA directed) polypeptide H
A_24_P237389	3.23E-03	-0.1678219	EIF1AX	eukaryotic translation initiation factor 1A, X-linked
A_23_P56894	3.23E-03	0.2605315	CYP20A1	cytochrome P450, family 20, subfamily A, polypeptide 1
A_33_P3240946	3.22E-03	0.291627	DPF3	D4, zinc and double PHD fingers, family 3
A_33_P3342260	3.22E-03	0.1648712	GCK	glucokinase (hexokinase 4)
A_33_P3404047	3.22E-03	-0.1872071	LOC100292409	uncharacterized LOC100292409
A_24_P46725	3.22E-03	-0.2570809	SNRNP48	small nuclear ribonucleoprotein 48kDa (U11/U12)
A_33_P3288659	3.22E-03	-0.2255224	ACTL8	actin-like 8
A_33_P3404641	3.21E-03	-0.2088226	LOC150381	uncharacterized LOC150381
A_33_P3219895	3.21E-03	0.2199468	KLC2	kinesin light chain 2
A_33_P3334625	3.21E-03	0.3986594	FLJ41327	FLJ41327 protein
A_24_P288323	3.21E-03	0.2253837	DPP9	dipeptidyl-peptidase 9
A_23_P358564	3.21E-03	-0.1969696	POU5F2	POU domain class 5, transcription factor 2
A_32_P233950	3.21E-03	0.2129909	DPPA5	developmental pluripotency associated 5
A_33_P3591972	3.20E-03	-0.2010438	GLYCTK	glycerate kinase
A_24_P114339	3.20E-03	-0.238435	RMND5A	required for meiotic nuclear division 5 homolog A (<i>S. cerevisiae</i>)
A_33_P3215953	3.20E-03	0.2506352	MPZL1	myelin protein zero-like 1
A_23_P68031	3.20E-03	-0.2008352	STAT4	signal transducer and activator of transcription 4
A_23_P214544	3.20E-03	0.1586013	GPX5	glutathione peroxidase 5 (epididymal androgen-related protein)
A_33_P3380161	3.19E-03	-0.2346843	HNRNPU-AS1	HNRNPU antisense RNA 1 (non-protein coding)
A_23_P300905	3.19E-03	-0.2952659	CCNY	cyclin Y
A_33_P3294886	3.18E-03	-0.1704088	VPS52	vacuolar protein sorting 52 homolog (<i>S. cerevisiae</i>)
A_33_P3245168	3.18E-03	-0.2023107	FAM71F2	family with sequence similarity 71, member F2
A_23_P139146	3.18E-03	0.2899351	MS4A8B	membrane-spanning 4-domains, subfamily A, member 8B
A_33_P3364646	3.18E-03	-0.2721811	RASGEF1B	RasGEF domain family, member 1B
A_24_P21056	3.17E-03	0.2347684	PHF14	PHD finger protein 14
A_23_P214587	3.17E-03	0.3073919	TRIM26	tripartite motif containing 26
A_33_P3215640	3.17E-03	0.5853132	PI16	peptidase inhibitor 16
A_23_P121276	3.17E-03	0.1989019	NEK4	NIMA (never in mitosis gene a)-related kinase 4
A_23_P106158	3.16E-03	-0.1962439	L2HGDH	L-2-hydroxyglutarate dehydrogenase
A_23_P8185	3.15E-03	-0.2370624	DYNLT1	dynein, light chain, Tctex-type 1

A_33_P3388835	3.15E-03	-0.2112681	STXBP2	syntaxin binding protein 2
A_33_P3892710	3.15E-03	-0.2016816	SNORA22	small nucleolar RNA, H/ACA box 22
A_33_P3228385	3.15E-03	-0.3462115	ATPIF1	ATPase inhibitory factor 1
A_33_P3302075	3.14E-03	-0.2555208	UGT1A8	UDP glucuronosyltransferase 1 family, polypeptide A8
A_33_P3214665	3.14E-03	0.6235705	MAP2	microtubule-associated protein 2
A_33_P3315239	3.14E-03	-0.2955517	ZNF7	zinc finger protein 7
A_23_P138137	3.14E-03	-0.2564416	OMA1	OMA1 homolog, zinc metallopeptidase (<i>S. cerevisiae</i>)
A_33_P3231833	3.13E-03	-0.2155545	ACOT8	acyl-CoA thioesterase 8
A_33_P3729375	3.13E-03	-0.2485872	LOC285181	uncharacterized LOC285181
A_24_P221575	3.13E-03	-0.2673074	RUFY3	RUN and FYVE domain containing 3
A_23_P74950	3.13E-03	0.2214676	RCC2	regulator of chromosome condensation 2
A_24_P385611	3.13E-03	0.2544948	SP100	SP100 nuclear antigen
A_23_P168847	3.13E-03	0.2410303	FBXO16	F-box protein 16
A_23_P381203	3.13E-03	-0.2743813	KIAA0556	KIAA0556
A_33_P3304963	3.13E-03	-0.2043042	LRRC27	leucine rich repeat containing 27
A_24_P398500	3.12E-03	0.2366129	MPHOSPH9	M-phase phosphoprotein 9
A_33_P3391345	3.12E-03	-0.2496874		
A_23_P57760	3.12E-03	-0.209849	ACPL2	acid phosphatase-like 2
A_23_P124946	3.11E-03	0.2101833	CMYA5	cardiomyopathy associated 5
A_23_P103361	3.11E-03	0.185025	LCK	lymphocyte-specific protein tyrosine kinase
A_24_P416346	3.11E-03	0.2663427	ETV4	ets variant 4
A_23_P149545	3.10E-03	-0.2528186	HIST2H2BE	histone cluster 2, H2be
A_33_P3416797	3.10E-03	-0.2676155	OVOS2	ovostatin 2
A_33_P3241786	3.10E-03	-0.1950733	ADD2	adducin 2 (beta)
A_33_P3339446	3.10E-03	-0.2024184		
A_33_P3327852	3.10E-03	-0.3869846	NDEL1	nudE nuclear distribution gene E homolog (<i>A. nidulans</i>)-like 1
A_23_P204436	3.10E-03	0.1935881	GIT2	G protein-coupled receptor kinase interacting ArfGAP 2
A_33_P3401138	3.10E-03	0.169936		
A_33_P3298102	3.10E-03	-0.1770558		
A_33_P3283848	3.09E-03	-0.2451083		
A_23_P161446	3.09E-03	0.4142483	GDI2	GDP dissociation inhibitor 2
A_23_P307536	3.09E-03	0.2923305	SH3D21	SH3 domain containing 21
A_33_P3267208	3.09E-03	0.2615866	CSNK1G1	casein kinase 1, gamma 1
A_23_P17811	3.09E-03	0.2033988	SEC14L2	SEC14-like 2 (<i>S. cerevisiae</i>)
A_33_P3305851	3.09E-03	0.2917898	SELT	selenoprotein T
A_33_P3378420	3.08E-03	-0.2276111		
A_23_P377376	3.08E-03	0.2084708	ACTR2	ARP2 actin-related protein 2 homolog (yeast)
A_33_P3346791	3.08E-03	-0.2159272	SCAMP3	secretory carrier membrane protein 3
A_24_P224966	3.08E-03	0.1892321	CLCNKB	chloride channel Kb
A_23_P394917	3.08E-03	-0.1893974	SRCAP	Snf2-related CREBBP activator protein
A_32_P133090	3.07E-03	-0.2264622		

A_33_P3229953	3.07E-03	-0.1971244	EEF1A2	eukaryotic translation elongation factor 1 alpha 2
A_33_P3261024	3.07E-03	-0.2236392		
A_33_P3332393	3.06E-03	0.1819498	TMEM53	transmembrane protein 53
A_23_P340251	3.06E-03	-0.2185327	RAB2A	RAB2A, member RAS oncogene family
A_23_P145965	3.06E-03	0.2048815	TPST1	tyrosylprotein sulfotransferase 1
A_23_P104942	3.06E-03	0.2332045	TMX2	thioredoxin-related transmembrane protein 2
A_33_P3336462	3.06E-03	0.3757863		
A_23_P16762	3.06E-03	0.260072	PRPF40A	PRP40 pre-mRNA processing factor 40 homolog A (<i>S. cerevisiae</i>)
A_23_P43150	3.05E-03	-0.2798267	ZHX1	zinc fingers and homeoboxes 1
A_23_P106922	3.05E-03	-0.2028288	CHST6	carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 6
A_23_P41292	3.05E-03	-0.3066802	CTBP1	C-terminal binding protein 1
A_23_P255328	3.05E-03	0.2206286	PRDM8	PR domain containing 8
A_24_P110799	3.05E-03	-0.3179183	LSS	lanosterol synthase (2,3-oxidosqualene-lanosterol cyclase)
A_33_P3385062	3.05E-03	-0.3979972	HAUS3	HAUS augmin-like complex, subunit 3
A_23_P59547	3.05E-03	-0.2006963	NT5C3	5'-nucleotidase, cytosolic III
A_33_P3294504	3.04E-03	0.2594515	FCRL1	Fc receptor-like 1
A_33_P3218138	3.04E-03	-0.194762	POLR2A	polymerase (RNA) II (DNA directed) polypeptide A, 220kDa
A_23_P88680	3.04E-03	0.2122096	C15orf24	chromosome 15 open reading frame 24
A_23_P32135	3.03E-03	-0.2244285	C9orf9	chromosome 9 open reading frame 9
A_32_P81768	3.03E-03	0.2363823	TMEM167A	transmembrane protein 167A
A_23_P34460	3.03E-03	-0.2583005	SLC35A3	solute carrier family 35 (UDP-N-acetylglucosamine (UDP-GlcNAc) transporter), member A3
A_33_P3394993	3.02E-03	-0.2079769	PREX2	phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 2
A_24_P11965	3.02E-03	0.3250091	MRFAP1	Morf4 family associated protein 1
A_33_P3226425	3.02E-03	-0.1868703	ERP29	endoplasmic reticulum protein 29
A_33_P3322892	3.01E-03	-0.2741856	CD99L2	CD99 molecule-like 2
A_23_P124892	3.00E-03	0.1809487	KISS1	KiSS-1 metastasis-suppressor
A_33_P3250253	3.00E-03	-0.2379572	LOC100131150	uncharacterized LOC100131150
A_23_P360291	3.00E-03	-0.1752967	TAPBP	TAP binding protein (tapasin)
A_23_P407565	3.00E-03	0.2351731	CX3CR1	chemokine (C-X3-C motif) receptor 1
A_23_P5945	3.00E-03	0.2407373	DHX35	DEAH (Asp-Glu-Ala-His) box polypeptide 35
A_33_P3409631	3.00E-03	0.2155997		
A_33_P3395249	2.99E-03	-0.2510524	LOC338588	uncharacterized LOC338588
A_33_P3216337	2.98E-03	0.2173474	FTSJ1	FtsJ homolog 1 (<i>E. coli</i>)
A_33_P3401407	2.98E-03	0.1963607	LOC390858	ACYL3 pseudogene
A_33_P3429576	2.98E-03	-0.2764963	AP3S1	adaptor-related protein complex 3, sigma 1 subunit
A_23_P158851	2.98E-03	-0.2078828	PCDH10	protocadherin 10
A_23_P23575	2.98E-03	-0.2612427	SLC39A1	solute carrier family 39 (zinc transporter), member 1
A_23_P90911	2.98E-03	-0.1887507	RDH14	retinol dehydrogenase 14 (all-trans/9-cis/11-cis)
A_23_P202565	2.97E-03	0.3122687	SHOC2	soc-2 suppressor of clear homolog (<i>C. elegans</i>)
A_33_P3387463	2.96E-03	-0.1880773	ATP6V1D	ATPase, H ⁺ transporting, lysosomal 34kDa, V1 subunit D
A_23_P256084	2.96E-03	-0.2525201	ARSE	arylsulfatase E (chondrodysplasia punctata 1)

A_33_P3402217	2.96E-03	0.1767592		
A_23_P344568	2.95E-03	-0.262156	FAM124A	family with sequence similarity 124A
A_33_P3379341	2.94E-03	-0.2036424	LOC391322	D-dopachrome tautomerase-like
A_33_P3423755	2.94E-03	0.1998809	LINC00200	long intergenic non-protein coding RNA 200
A_33_P3418987	2.93E-03	0.1780802	PRAMEF13	PRAME family member 13
A_33_P3416762	2.93E-03	-0.4292405	LYPLA1	lysophospholipase I
A_33_P3318509	2.93E-03	0.2672817	CLEC4E	C-type lectin domain family 4, member E
A_23_P337424	2.92E-03	0.2667655	SERBP1	SERPINE1 mRNA binding protein 1
A_33_P3252286	2.92E-03	-0.2205657	CRLF1	cytokine receptor-like factor 1
A_32_P9575	2.92E-03	0.2080195	MRPL45	mitochondrial ribosomal protein L45
A_24_P940059	2.91E-03	-0.2404602	IPCEF1	interaction protein for cytohesin exchange factors 1
A_33_P3380772	2.91E-03	-0.5829036	C20orf160	chromosome 20 open reading frame 160
A_24_P417007	2.91E-03	0.2820008	POLR2F	polymerase (RNA) II (DNA directed) polypeptide F
A_33_P3265444	2.91E-03	-0.2472936	MRS2P2	MRS2 magnesium homeostasis factor homolog (<i>S. cerevisiae</i>) pseudogene 2
A_33_P3325558	2.91E-03	0.3683333		
A_33_P3423979	2.91E-03	0.2748933	PALLD	palladin, cytoskeletal associated protein
A_33_P3327444	2.90E-03	0.1931641	BACH1	BTB and CNC homology 1, basic leucine zipper transcription factor 1
A_24_P63347	2.90E-03	-0.2258775	PF4V1	platelet factor 4 variant 1
A_33_P3691168	2.90E-03	0.2588337	IL31RA	interleukin 31 receptor A
A_24_P321411	2.89E-03	-0.1891334	PRKRIR	protein-kinase, interferon-inducible double stranded RNA dependent inhibitor, repressor of (P58
A_23_P8253	2.89E-03	-0.3075418	RAET1E	retinoic acid early transcript 1E
A_23_P80473	2.89E-03	0.2427943	CHST13	carbohydrate (chondroitin 4) sulfotransferase 13
A_32_P63562	2.88E-03	-0.1657102	LOC100132240	uncharacterized LOC100132240
A_23_P136116	2.88E-03	-0.2505391	AGMO	alkylglycerol monooxygenase
A_24_P40529	2.88E-03	-0.3151543	TMLHE	trimethyllysine hydroxylase, epsilon
A_33_P3231613	2.88E-03	-0.1971359	CSAG3	CSAG family, member 3
A_23_P20075	2.87E-03	0.2231665	NPC1L1	NPC1 (Niemann-Pick disease, type C1, gene)-like 1
A_23_P170574	2.87E-03	-0.2596276	SNAI3	snail homolog 3 (<i>Drosophila</i>)
A_23_P151321	2.86E-03	-0.3381825	RPL6	ribosomal protein L6
A_24_P177568	2.86E-03	-0.2857689	ZNF431	zinc finger protein 431
A_33_P3283636	2.86E-03	-0.1733601		
A_24_P82074	2.86E-03	-0.2463693	CPSF2	cleavage and polyadenylation specific factor 2, 100kDa
A_33_P3398107	2.85E-03	-0.2064322	SYS1	SYS1 Golgi-localized integral membrane protein homolog (<i>S. cerevisiae</i>)
A_23_P51884	2.85E-03	0.2141019	PUSL1	pseudouridylate synthase-like 1
A_32_P201773	2.85E-03	0.210037	AMMECR1	Alport syndrome, mental retardation, midface hypoplasia and elliptocytosis chromosomal region gene
A_23_P53588	2.85E-03	0.3243835	WNT5B	wingless-type MMTV integration site family, member 5B
A_33_P3286002	2.85E-03	-0.3047043	VKORC1	vitamin K epoxide reductase complex, subunit 1
A_33_P3424636	2.84E-03	0.1962905		
A_23_P47497	2.84E-03	0.223005	MRPL16	mitochondrial ribosomal protein L16

A_24_P407930	2.84E-03	-0.2222712	SEH1L	SEH1-like (<i>S. cerevisiae</i>)
A_23_P86386	2.84E-03	-0.1888751	ZNF669	zinc finger protein 669
A_33_P3312754	2.84E-03	0.2828327		
A_33_P3301445	2.83E-03	0.2000022		
A_32_P47870	2.83E-03	-0.1881533		
A_33_P3494979	2.83E-03	0.1982448	DKFZp686F0839	uncharacterized LOC400070
A_33_P3219279	2.83E-03	-0.2832605	JPH4	junctophilin 4
A_23_P214211	2.83E-03	-0.1651628	RARS2	arginyl-tRNA synthetase 2, mitochondrial
A_33_P3281807	2.83E-03	-0.2144403	PDDC1	Parkinson disease 7 domain containing 1
A_24_P289139	2.83E-03	0.2936468	SH3KBP1	SH3-domain kinase binding protein 1
A_33_P3266730	2.83E-03	-0.3420881	SYTL4	synaptotagmin-like 4
A_33_P3322769	2.82E-03	0.3344258	OR51G2	olfactory receptor, family 51, subfamily G, member 2
A_33_P3344603	2.82E-03	-0.1856816	ZNF280D	zinc finger protein 280D
A_33_P3325643	2.81E-03	-0.280632	LINC00487	long intergenic non-protein coding RNA 487
A_23_P26325	2.81E-03	0.2216625	CCL17	chemokine (C-C motif) ligand 17
A_32_P28223	2.81E-03	-0.1867937		
A_33_P3331021	2.81E-03	-0.227214	LOC100129148	uncharacterized LOC100129148
A_23_P89310	2.81E-03	-0.2624906	EPN2	epsin 2
A_23_P1782	2.81E-03	-0.2325942	CD82	CD82 molecule
A_23_P130359	2.80E-03	0.2616932	ARHGAP28	Rho GTPase activating protein 28
A_33_P3293760	2.80E-03	0.2864758	KRTAP10-8	keratin associated protein 10-8
A_23_P169117	2.80E-03	-0.1799626	RRAGA	Ras-related GTP binding A
A_33_P3242080	2.80E-03	-0.170517	DDX19A	DEAD (Asp-Glu-Ala-As) box polypeptide 19A
A_33_P3384667	2.80E-03	-0.1796384	DCAF5	DDB1 and CUL4 associated factor 5
A_32_P68050	2.80E-03	-0.2498519	NEK1	NIMA (never in mitosis gene a)-related kinase 1
A_23_P112173	2.80E-03	-0.1706633	SLC24A2	solute carrier family 24 (sodium/potassium/calcium exchanger), member 2
A_23_P158662	2.80E-03	-0.1956718	GPS1	G protein pathway suppressor 1
A_23_P65174	2.79E-03	-0.1867273	PHF11	PHD finger protein 11
A_33_P3225086	2.79E-03	0.2456172	PEX16	peroxisomal biogenesis factor 16
A_23_P211909	2.79E-03	-0.3723806	PLS1	plastin 1
A_24_P67027	2.79E-03	-0.2289789	CLK2	CDC-like kinase 2
A_24_P411121	2.78E-03	-0.2289118	TNFRSF18	tumor necrosis factor receptor superfamily, member 18
A_32_P216426	2.78E-03	0.275036	HNRNPA1L2	heterogeneous nuclear ribonucleoprotein A1-like 2
A_23_P420831	2.78E-03	-0.2521972	TRIM10	tripartite motif containing 10
A_23_P210886	2.78E-03	0.3474795	BCL2L1	BCL2-like 1
A_33_P3239298	2.77E-03	0.7428803	PRODH	proline dehydrogenase (oxidase) 1
A_33_P3231407	2.77E-03	0.2311295	PYHIN1	pyrin and HIN domain family, member 1
A_33_P3372965	2.77E-03	-0.1790113		
A_23_P70688	2.77E-03	0.4751707	LY86	lymphocyte antigen 86
A_23_P35848	2.77E-03	-0.3139257	NADSYN1	NAD synthetase 1
A_23_P102351	2.77E-03	0.2755114	CHST10	carbohydrate sulfotransferase 10

A_33_P3290687	2.76E-03	-0.217857	DNAJC1	DnaJ (Hsp40) homolog, subfamily C, member 1
A_23_P138760	2.76E-03	-0.1860195	CLCF1	cardiotrophin-like cytokine factor 1
A_33_P3468017	2.76E-03	0.2810059	LOC254099	uncharacterized LOC254099
A_33_P3356255	2.76E-03	-0.1619707	ANXA11	annexin A11
A_33_P3373200	2.76E-03	0.3627973		
A_24_P189458	2.76E-03	-0.1972956	NSMCE4A	non-SMC element 4 homolog A (<i>S. cerevisiae</i>)
A_33_P3266889	2.75E-03	-0.1993142		
A_23_P219013	2.75E-03	0.2851803	ABCC10	ATP-binding cassette, sub-family C (CFTR/MRP), member 10
A_24_P310894	2.75E-03	0.3106399	CAPZA1	capping protein (actin filament) muscle Z-line, alpha 1
A_23_P201342	2.75E-03	-0.1993583	DVL1	dishevelled, dsh homolog 1 (<i>Drosophila</i>)
A_23_P205336	2.74E-03	0.2018374	C14orf129	chromosome 14 open reading frame 129
A_23_P99540	2.74E-03	0.1822259	ZFP36L1	zinc finger protein 36, C3H type-like 1
A_33_P3233100	2.74E-03	-0.2249396		
A_23_P64799	2.74E-03	0.2429452	AAAS	achalasia, adrenocortical insufficiency, alacrimia
A_32_P100430	2.73E-03	0.1972649	LOC100128737	uncharacterized LOC100128737
A_33_P3216928	2.73E-03	0.1941084		
A_23_P210763	2.73E-03	0.1774118	JAG1	jagged 1
A_33_P3358914	2.72E-03	0.3505504	ARHGAP23	Rho GTPase activating protein 23
A_23_P143694	2.72E-03	0.1858671	SOX10	SRY (sex determining region Y)-box 10
A_24_P62860	2.72E-03	-0.2461825	STAM2	signal transducing adaptor molecule (SH3 domain and ITAM motif) 2
A_33_P3308045	2.72E-03	-0.4298119	EIF4E2	eukaryotic translation initiation factor 4E family member 2
A_23_P416112	2.71E-03	0.1936652	RNF168	ring finger protein 168
A_33_P3250018	2.70E-03	0.2427979	HCFC2	host cell factor C2
A_33_P3345501	2.70E-03	-0.2008192		
A_23_P428366	2.70E-03	-0.1901753	HORMAD2	HORMA domain containing 2
A_23_P28834	2.70E-03	0.2670879	PHACTR3	phosphatase and actin regulator 3
A_33_P3360758	2.70E-03	0.5993495	KCNQ2	potassium voltage-gated channel, KQT-like subfamily, member 2
A_33_P3226177	2.70E-03	0.2306444	CYFIP2	cytoplasmic FMR1 interacting protein 2
A_33_P3224055	2.70E-03	-0.220033	LOC100132481	uncharacterized LOC100132481
A_23_P50276	2.70E-03	-0.2705205	ANGPTL6	angiopoietin-like 6
A_23_P100676	2.70E-03	-0.2451548	SMG6	smg-6 homolog, nonsense mediated mRNA decay factor (<i>C. elegans</i>)
A_33_P3405038	2.70E-03	0.4218123	LOC100130264	uncharacterized LOC100130264
A_24_P263672	2.70E-03	-0.1834665	BMS1	BMS1 homolog, ribosome assembly protein (yeast)
A_23_P115842	2.69E-03	0.2113153	CCAR1	cell division cycle and apoptosis regulator 1
A_33_P3340802	2.69E-03	-0.2597737	DHDDS	dehydrodolichyl diphosphate synthase
A_33_P3268284	2.69E-03	0.379239	GDI2	GDP dissociation inhibitor 2
A_24_P394075	2.69E-03	-0.1601913	NT5C1B	5'-nucleotidase, cytosolic 1B
A_33_P3214597	2.68E-03	0.2289355	RP9P	retinitis pigmentosa 9 pseudogene
A_24_P941824	2.68E-03	0.2572306	KIF3B	kinesin family member 3B
A_33_P3374947	2.67E-03	0.2300496	KLF14	Kruppel-like factor 14
A_33_P3211793	2.67E-03	0.2872857		

A_23_P33407	2.67E-03	-0.3463842	HERC2	hect domain and RLD 2
A_23_P345808	2.67E-03	-0.2818349	FAM133A	family with sequence similarity 133, member A
A_23_P118042	2.67E-03	0.1702954	LRRC36	leucine rich repeat containing 36
A_23_P257593	2.67E-03	0.238402	LOH12CR1	loss of heterozygosity, 12, chromosomal region 1
A_23_P111487	2.66E-03	0.3485278	SRRT	serrate RNA effector molecule homolog (Arabidopsis)
A_23_P201086	2.66E-03	0.4206704	ARF1	ADP-ribosylation factor 1
A_33_P3289396	2.66E-03	0.2123764	LOC729737	uncharacterized LOC729737
A_33_P3279660	2.65E-03	-0.2575656	LOC644339	ankyrin repeat domain-containing protein 20B-like
A_33_P3339741	2.65E-03	0.2247887		
A_33_P3333975	2.65E-03	0.2447318	CBWD5	COBW domain containing 5
A_33_P3410836	2.65E-03	0.3907402	HIST1H4D	histone cluster 1, H4d
A_23_P27636	2.65E-03	-0.2707429	ZNF700	zinc finger protein 700
A_23_P144369	2.64E-03	0.190213	NAP1L5	nucleosome assembly protein 1-like 5
A_23_P170467	2.64E-03	0.2741008	USP3	ubiquitin specific peptidase 3
A_33_P3268472	2.64E-03	0.396089	CTSC	cathepsin C
A_33_P3303810	2.63E-03	0.2105599	LAD1	ladinin 1
A_24_P350644	2.63E-03	-0.2482267	PRRC2B	proline-rich coiled-coil 2B
A_33_P3343873	2.63E-03	-0.2101757	SIRPG	signal-regulatory protein gamma
A_33_P3305458	2.63E-03	-0.9925155	ATF6B	activating transcription factor 6 beta
A_24_P100351	2.63E-03	0.5033742	GNL3L	guanine nucleotide binding protein-like 3 (nucleolar)-like
A_33_P3393350	2.63E-03	-0.1899042	RHOT2	ras homolog gene family, member T2
A_33_P3223243	2.63E-03	-0.221858	ST7L	suppression of tumorigenicity 7 like
A_33_P3321462	2.63E-03	0.2293888	OR5B21	olfactory receptor, family 5, subfamily B, member 21
A_33_P3298406	2.63E-03	0.1920334	C9orf102	chromosome 9 open reading frame 102
A_33_P3385983	2.62E-03	0.2250516	ZNF20	zinc finger protein 20
A_33_P3309034	2.62E-03	-0.2179413	SEPT7L	septin 7-like
A_23_P152818	2.62E-03	-0.5529532	KAT7	K(lysine) acetyltransferase 7
A_33_P3228573	2.62E-03	-0.2723077	ASPSCR1	alveolar soft part sarcoma chromosome region, candidate 1
A_33_P3353906	2.62E-03	0.251765		
A_24_P376229	2.62E-03	0.2343943	UBA2	ubiquitin-like modifier activating enzyme 2
A_24_P346725	2.61E-03	0.2815376		
A_23_P129659	2.61E-03	0.2242526	ZNF689	zinc finger protein 689
A_23_P44684	2.61E-03	0.4188253	ECT2	epithelial cell transforming sequence 2 oncogene
A_24_P19268	2.61E-03	-0.2970475	ZNF714	zinc finger protein 714
A_33_P3243622	2.61E-03	-0.4623978	DCAF8	DDB1 and CUL4 associated factor 8
A_33_P3389779	2.61E-03	-0.340623	WDR33	WD repeat domain 33
A_24_P921327	2.61E-03	-0.2616466	TAPT1	transmembrane anterior posterior transformation 1
A_33_P3281176	2.61E-03	0.3222734		
A_23_P161583	2.61E-03	-0.1995268	NAALAD2	N-acetylated alpha-linked acidic dipeptidase 2
A_23_P152218	2.61E-03	0.5416734	E2F4	E2F transcription factor 4, p107/p130-binding
A_33_P3400192	2.60E-03	-0.2155182	MAPK9	mitogen-activated protein kinase 9

A_32_P60716	2.60E-03	0.2178428	CCDC158	coiled-coil domain containing 158
A_33_P3297818	2.60E-03	-0.2994575		
A_23_P155711	2.60E-03	0.3764126	NEIL3	nei endonuclease VIII-like 3 (E. coli)
A_33_P3250680	2.59E-03	0.3779754	CD40LG	CD40 ligand
A_32_P453321	2.59E-03	-0.2384705	C1orf228	chromosome 1 open reading frame 228
A_33_P3424577	2.59E-03	0.194673		
A_33_P3243832	2.59E-03	0.2667098	ZEB2	zinc finger E-box binding homeobox 2
A_23_P124855	2.59E-03	0.2631932	ZCCHC7	zinc finger, CCHC domain containing 7
A_33_P3356587	2.58E-03	-0.2520356	LOC100134040	uncharacterized LOC100134040
A_33_P3292635	2.58E-03	-0.2096236		
A_33_P3300346	2.58E-03	-0.2476045	DCUN1D2	DCN1, defective in cullin neddylation 1, domain containing 2 (S. cerevisiae)
A_23_P251836	2.58E-03	-0.2227306	NPY5R	neuropeptide Y receptor Y5
A_33_P3253574	2.58E-03	-0.2072911	OR8B3	olfactory receptor, family 8, subfamily B, member 3
A_33_P3423969	2.58E-03	0.2060402	GBX2	gastrulation brain homeobox 2
A_24_P351304	2.58E-03	0.3602601	IMMT	inner membrane protein, mitochondrial
A_33_P3226070	2.57E-03	0.1716387		
A_33_P3271850	2.57E-03	0.2257747		
A_32_P163805	2.57E-03	0.2067315	LINC00301	long intergenic non-protein coding RNA 301
A_23_P255286	2.57E-03	-0.2587657	SMPD4	sphingomyelin phosphodiesterase 4, neutral membrane (neutral sphingomyelinase-3)
A_33_P3273629	2.57E-03	-0.2290102	CCDC144A	coiled-coil domain containing 144A
A_23_P46045	2.57E-03	0.9856457	RGS5	regulator of G-protein signaling 5
A_24_P284324	2.57E-03	-0.2821964	TMEM104	transmembrane protein 104
A_33_P3257503	2.57E-03	0.1837861	LOC387647	patched domain containing 3 pseudogene
A_33_P3802116	2.56E-03	0.1897098	LOC157860	uncharacterized LOC157860
A_23_P165879	2.56E-03	-0.2393766	RAB10	RAB10, member RAS oncogene family
A_33_P3257533	2.56E-03	-0.1941471		
A_33_P3408599	2.56E-03	-0.1945857		
A_33_P3375413	2.56E-03	0.2475641	LOC100131719	uncharacterized LOC100131719
A_33_P3406816	2.56E-03	0.2802201	LOC728316	uncharacterized LOC728316
A_33_P3248629	2.55E-03	0.2101308	DENND2A	DENN/MADD domain containing 2A
A_33_P3351495	2.55E-03	0.1797348		
A_33_P3317163	2.55E-03	0.2162757	TFAP2B	transcription factor AP-2 beta (activating enhancer binding protein 2 beta)
A_33_P3397150	2.55E-03	0.1754135	FLJ22184	putative uncharacterized protein FLJ22184
A_24_P238510	2.54E-03	0.2079792		
A_24_P60680	2.54E-03	0.1709627	OR10C1	olfactory receptor, family 10, subfamily C, member 1
A_23_P408768	2.53E-03	0.2749386	DOT1L	DOT1-like, histone H3 methyltransferase (S. cerevisiae)
A_23_P21976	2.52E-03	0.2955901	CSPG4	chondroitin sulfate proteoglycan 4
A_23_P209195	2.52E-03	-0.2641062	C19orf12	chromosome 19 open reading frame 12
A_23_P134744	2.52E-03	0.2014625	RNF122	ring finger protein 122
A_33_P3260614	2.52E-03	0.2310401	PLCB2	phospholipase C, beta 2
A_33_P3400700	2.51E-03	-0.1899591	SLC26A5	solute carrier family 26, member 5 (prestin)

A_24_P389285	2.51E-03	0.2101582	C7orf54	chromosome 7 open reading frame 54
A_32_P148345	2.51E-03	0.1802777	ANXA2	annexin A2
A_33_P3258699	2.51E-03	0.2114899	DUX4	double homeobox 4
A_23_P65963	2.51E-03	0.1875268	BFAR	bifunctional apoptosis regulator
A_23_P137814	2.50E-03	-0.2244981	ATP6V0B	ATPase, H+ transporting, lysosomal 21kDa, V0 subunit b
A_24_P72479	2.50E-03	-0.229727	ARPC1A	actin related protein 2/3 complex, subunit 1A, 41kDa
A_23_P107073	2.50E-03	0.2569383	RPA1	replication protein A1, 70kDa
A_23_P94412	2.50E-03	0.2132198	PDCD1LG2	programmed cell death 1 ligand 2
A_33_P3412556	2.50E-03	-0.2141598		
A_33_P3889862	2.50E-03	0.2615793	LOC151475	uncharacterized LOC151475
A_24_P277155	2.49E-03	-0.221285	HLTF	helicase-like transcription factor
A_33_P3364433	2.49E-03	-0.202937	ACVR1B	activin A receptor, type IB
A_23_P74895	2.49E-03	0.1632971	LIN28A	lin-28 homolog A (C. elegans)
A_23_P6381	2.48E-03	0.2248386	MN1	meningioma (disrupted in balanced translocation) 1
A_33_P3851023	2.48E-03	0.2824596	NRXN3	neurexin 3
A_33_P3271470	2.48E-03	-0.2351992	GREB1L	growth regulation by estrogen in breast cancer-like
A_23_P111811	2.48E-03	0.2546228	ING3	inhibitor of growth family, member 3
A_23_P161644	2.48E-03	-0.4167372	RBM14	RNA binding motif protein 14
A_33_P3253857	2.48E-03	0.2880359		
A_23_P207666	2.47E-03	-0.3176253	USP6	ubiquitin specific peptidase 6 (Tre-2 oncogene)
A_33_P3249185	2.47E-03	0.1936421	SAR1A	SAR1 homolog A (S. cerevisiae)
A_23_P394377	2.47E-03	-0.2181138	KCNRG	potassium channel regulator
A_24_P920979	2.47E-03	-0.2391977	ASB7	ankyrin repeat and SOCS box containing 7
A_24_P114255	2.47E-03	-0.2762585	MBOAT2	membrane bound O-acyltransferase domain containing 2
A_23_P162782	2.47E-03	-0.6564996	ARGLU1	arginine and glutamate rich 1
A_23_P61127	2.47E-03	0.1789148	APOO	apolipoprotein O
A_33_P3266958	2.47E-03	-0.1776997	ZNF286A	zinc finger protein 286A
A_23_P145514	2.46E-03	-0.250235	IL20RA	interleukin 20 receptor, alpha
A_23_P146830	2.46E-03	-0.1640415	SLC25A10	solute carrier family 25 (mitochondrial carrier; dicarboxylate transporter), member 10
A_23_P397391	2.46E-03	0.4951713	FFAR2	free fatty acid receptor 2
A_23_P203030	2.46E-03	0.1872431	DLAT	dihydrolipoamide S-acetyltransferase
A_23_P11629	2.46E-03	-0.273478	TMEM61	transmembrane protein 61
A_33_P3692756	2.45E-03	0.2574505	LOC723809	uncharacterized LOC723809
A_23_P391275	2.45E-03	0.1746212	RCAN3	RCAN family member 3
A_23_P171077	2.45E-03	0.2139393	EBP	emopamil binding protein (sterol isomerase)
A_23_P15045	2.45E-03	-0.2412666	E4F1	E4F transcription factor 1
A_33_P3237201	2.44E-03	0.1909976	SYT1	synaptotagmin I
A_33_P3266674	2.44E-03	-0.2558982	ZBTB46	zinc finger and BTB domain containing 46
A_33_P3333030	2.44E-03	-0.207576	SUFU	suppressor of fused homolog (Drosophila)
A_33_P3415037	2.44E-03	-0.3098314	VDAC2	voltage-dependent anion channel 2
A_33_P3417611	2.44E-03	-0.2991428	PCDHGB1	protocadherin gamma subfamily B, 1

A_23_P46627	2.44E-03	-0.3200334	ADIPOR1	adiponectin receptor 1
A_23_P31602	2.44E-03	-0.1815631	BUD31	BUD31 homolog (S. cerevisiae)
A_33_P3300975	2.44E-03	0.2508676	HOXC4	homeobox C4
A_33_P3370244	2.43E-03	-0.2145445	C16orf96	chromosome 16 open reading frame 96
A_23_P41194	2.43E-03	-0.2206512	LRRC34	leucine rich repeat containing 34
A_33_P3209185	2.43E-03	0.1674386		
A_33_P3254101	2.43E-03	-0.2145013		
A_23_P69513	2.42E-03	-0.2283064	RGS12	regulator of G-protein signaling 12
A_23_P256948	2.42E-03	-0.2471599	MSC	musculin
A_24_P21044	2.41E-03	0.1921483	PSMG3	proteasome (prosome, macropain) assembly chaperone 3
A_24_P236445	2.41E-03	0.2659436	DYNC1LI2	dynein, cytoplasmic 1, light intermediate chain 2
A_33_P3306616	2.41E-03	0.3099906		
A_33_P3363620	2.41E-03	-0.1938542	TMEM91	transmembrane protein 91
A_33_P3276856	2.40E-03	0.2572453	HYDIN	hydrocephalus inducing homolog (mouse)
A_33_P3289780	2.40E-03	-0.2458624	C14orf2	chromosome 14 open reading frame 2
A_23_P66525	2.40E-03	0.1819818	HS3ST3A1	heparan sulfate (glucosamine) 3-O-sulfotransferase 3A1
A_33_P3556116	2.39E-03	-0.3127539	LOC145678	uncharacterized LOC145678
A_33_P3409210	2.39E-03	-0.1759132		
A_33_P3418681	2.39E-03	-0.2652369	HCN4	hyperpolarization activated cyclic nucleotide-gated potassium channel 4
A_23_P51565	2.39E-03	0.1758832	TNNI1	troponin I type 1 (skeletal, slow)
A_23_P97810	2.39E-03	-0.2468227	PARG	poly (ADP-ribose) glycohydrolase
A_23_P340333	2.38E-03	-0.315718	ITPRIP	inositol 1,4,5-trisphosphate receptor interacting protein
A_33_P3220376	2.38E-03	-0.2055685		
A_33_P3312466	2.37E-03	-0.2133484	BTNL9	butyrophilin-like 9
A_33_P3292874	2.37E-03	-0.3277465		
A_33_P3358851	2.37E-03	-0.4528524		
A_33_P3301915	2.37E-03	-0.3079156	USP51	ubiquitin specific peptidase 51
A_33_P3305418	2.37E-03	0.3637942		
A_24_P238131	2.37E-03	0.2585507	SUSD5	sushi domain containing 5
A_33_P3288725	2.36E-03	-0.2463251		
A_23_P318432	2.36E-03	0.1701666	PKD1L1	polycystic kidney disease 1 like 1
A_33_P3462955	2.35E-03	0.19024	LOC401490	uncharacterized LOC401490
A_33_P3421728	2.35E-03	0.2102718	DGKG	diacylglycerol kinase, gamma 90kDa
A_23_P363399	2.35E-03	0.3182863	SLC38A1	solute carrier family 38, member 1
A_23_P71319	2.35E-03	0.3060187	FDFT1	farnesyl-diphosphate farnesyltransferase 1
A_23_P252536	2.35E-03	0.2332788	MRPS26	mitochondrial ribosomal protein S26
A_33_P3224505	2.35E-03	-0.2325603	LOC100131099	uncharacterized LOC100131099
A_23_P23850	2.34E-03	0.578947	DAB1	disabled homolog 1 (Drosophila)
A_23_P144476	2.34E-03	-0.3859083	SPRY1	sprouty homolog 1, antagonist of FGF signaling (Drosophila)
A_24_P203726	2.34E-03	-0.2599494		
A_23_P344655	2.34E-03	-0.1795105	FLJ36848	uncharacterized LOC647115

A_33_P3230369	2.34E-03	-0.1898994		
A_33_P3279519	2.33E-03	0.2062125		
A_33_P3238820	2.33E-03	0.226738		
A_24_P364296	2.33E-03	0.2704383	STX2	syntaxin 2
A_23_P14636	2.33E-03	-0.2422241	MFAP1	microfibrillar-associated protein 1
A_33_P3307775	2.32E-03	-0.3773906	DENR	density-regulated protein
A_23_P155666	2.32E-03	-0.1895378	NAAA	N-acylethanolamine acid amidase
A_23_P209726	2.32E-03	0.2106808	SP140	SP140 nuclear body protein
A_33_P3408177	2.32E-03	-0.2496229	BCL2L15	BCL2-like 15
A_23_P164814	2.32E-03	-0.1729771	C19orf57	chromosome 19 open reading frame 57
A_23_P215980	2.32E-03	-0.2644882	KIAA1429	KIAA1429
A_33_P3241043	2.31E-03	0.1768192		
A_33_P3409493	2.31E-03	0.2394595	LOC285095	uncharacterized LOC285095
A_23_P166051	2.31E-03	-0.3208987	RBCK1	RanBP-type and C3HC4-type zinc finger containing 1
A_33_P3255229	2.31E-03	-0.2263161	SETD7	SET domain containing (lysine methyltransferase) 7
A_33_P3280549	2.31E-03	-0.2061863		
A_33_P3802146	2.31E-03	0.2756446		
A_23_P150549	2.30E-03	0.3999993	PGA3	pepsinogen 3, group I (pepsinogen A)
A_24_P220618	2.30E-03	0.1753895	ZC3H4	zinc finger CCCH-type containing 4
A_33_P3267320	2.30E-03	-0.2062342	RFT1	RFT1 homolog (<i>S. cerevisiae</i>)
A_23_P252211	2.30E-03	0.2943886	MTRR	5-methyltetrahydrofolate-homocysteine methyltransferase reductase
A_23_P27013	2.30E-03	0.3197217	HOXB9	homeobox B9
A_33_P3279353	2.29E-03	0.2553539	AZU1	azurocidin 1
A_23_P68401	2.29E-03	0.4007433	CTNBL1	catenin, beta like 1
A_33_P3350232	2.28E-03	0.6507521		
A_33_P3347869	2.28E-03	0.2794479	C3	complement component 3
A_24_P308229	2.28E-03	0.1716425	AIM1L	absent in melanoma 1-like
A_23_P25215	2.28E-03	0.2364431	RECQL	RecQ protein-like (DNA helicase Q1-like)
A_24_P341677	2.28E-03	-0.3705789		
A_24_P303420	2.28E-03	-0.2310945	LOC221442	adenylate cyclase 10 (soluble) pseudogene
A_24_P301186	2.27E-03	-0.2491758	WDR89	WD repeat domain 89
A_33_P3276927	2.27E-03	-0.1820346		
A_24_P649747	2.27E-03	0.2658615	BMS1	BMS1 homolog, ribosome assembly protein (yeast)
A_24_P35478	2.27E-03	-0.3128567	PARD3	par-3 partitioning defective 3 homolog (<i>C. elegans</i>)
A_23_P131149	2.27E-03	0.2426411	ORC4	origin recognition complex, subunit 4
A_33_P3339143	2.27E-03	0.3227857	ARL13A	ADP-ribosylation factor-like 13A
A_32_P486620	2.27E-03	-0.2447095	IGSF22	immunoglobulin superfamily, member 22
A_24_P923757	2.26E-03	-0.2171661	ATF7IP	activating transcription factor 7 interacting protein
A_23_P355377	2.26E-03	-0.2582175	SLC12A5	solute carrier family 12 (potassium/chloride transporter), member 5
A_33_P3410821	2.26E-03	0.4081497		

A_24_P109417	2.26E-03	-0.2837561	C1orf187	chromosome 1 open reading frame 187
A_33_P3400217	2.25E-03	0.2576354	SLC4A1	solute carrier family 4, anion exchanger, member 1 (erythrocyte membrane protein band 3, Diego)
A_23_P5415	2.25E-03	-0.2326538	NIF3L1	NIF3 NGG1 interacting factor 3-like 1 (<i>S. cerevisiae</i>)
A_24_P201491	2.25E-03	0.2080322	MRPL49	mitochondrial ribosomal protein L49
A_23_P76435	2.25E-03	-0.3877164	GATC	glutamyl-tRNA(Gln) amidotransferase, subunit C homolog (bacterial)
A_24_P897062	2.25E-03	-0.2311155	ZNF736	zinc finger protein 736
A_33_P3224809	2.25E-03	0.2711671	IL17RA	interleukin 17 receptor A
A_23_P127385	2.25E-03	0.4103355	MYBPC3	myosin binding protein C, cardiac
A_23_P35782	2.25E-03	-0.2447473	NAA40	N(alpha)-acetyltransferase 40, NatD catalytic subunit, homolog (<i>S. cerevisiae</i>)
A_33_P3317543	2.25E-03	-0.2136813	GTF2IRD2	GTF2I repeat domain containing 2
A_33_P3418611	2.25E-03	-0.2934544	ZNF729	zinc finger protein 729
A_24_P389994	2.24E-03	0.24226	NADK	NAD kinase
A_23_P131954	2.24E-03	0.5338375	SNX5	sorting nexin 5
A_33_P3268629	2.23E-03	0.4500898	LINC00265	long intergenic non-protein coding RNA 265
A_33_P3408953	2.23E-03	-0.2908761	GGTLC2	gamma-glutamyltransferase light chain 2
A_33_P3223116	2.23E-03	-0.2326361	HIPK2	homeodomain interacting protein kinase 2
A_23_P24485	2.23E-03	0.2176646	NFRKB	nuclear factor related to kappaB binding protein
A_24_P251599	2.23E-03	0.3093774	CAV3	caveolin 3
A_33_P3235410	2.23E-03	-0.2059006	PTPLA	protein tyrosine phosphatase-like (proline instead of catalytic arginine), member A
A_23_P23564	2.22E-03	0.2299936	PIP5K1A	phosphatidylinositol-4-phosphate 5-kinase, type I, alpha
A_24_P855508	2.22E-03	0.2232145	C9orf153	chromosome 9 open reading frame 153
A_32_P55293	2.21E-03	0.2421882	LYZL2	lysozyme-like 2
A_24_P225679	2.21E-03	0.4397558	IRS1	insulin receptor substrate 1
A_33_P3226643	2.21E-03	-0.2805936	ATG9A	ATG9 autophagy related 9 homolog A (<i>S. cerevisiae</i>)
A_24_P123119	2.21E-03	-0.2314601	EHHADH	enoyl-CoA hydratase/3-hydroxyacyl CoA dehydrogenase
A_33_P3318327	2.21E-03	0.2290531	FLJ31713	uncharacterized protein FLJ31713
A_33_P3263666	2.21E-03	-0.2312262	ANKRD9	ankyrin repeat domain 9
A_33_P3291430	2.21E-03	0.3340746	ST7-OT4	ST7 overlapping transcript 4 (non-protein coding)
A_24_P229638	2.20E-03	0.2916983	C9orf117	chromosome 9 open reading frame 117
A_23_P57364	2.20E-03	0.220519	TFF2	trefoil factor 2
A_33_P3363854	2.20E-03	0.2214061		
A_24_P551842	2.20E-03	-0.3888925	CYTB	cytochrome b
A_33_P3784283	2.20E-03	0.41742	JAK1	Janus kinase 1
A_23_P415611	2.19E-03	0.2377829	SLC9B1	solute carrier family 9, subfamily B (cation proton antiporter 2), member 1
A_23_P35576	2.19E-03	-0.3004119	ZNF518A	zinc finger protein 518A
A_32_P128391	2.18E-03	0.2735137	LOC728431	uncharacterized LOC728431
A_33_P3276068	2.18E-03	0.3111515	BET3L	BET3 like (<i>S. cerevisiae</i>)
A_33_P3351920	2.18E-03	0.2657614		
A_33_P3662553	2.18E-03	0.5032455	YWHAQ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide
A_24_P50862	2.17E-03	-0.2078755	QRSL1	glutamyl-tRNA synthase (glutamine-hydrolyzing)-like 1

A_33_P3289416	2.17E-03	-0.2420039	ZNF785	zinc finger protein 785
A_33_P3323059	2.17E-03	-0.3063092		
A_33_P3285754	2.17E-03	0.1897718		
A_24_P299210	2.17E-03	-0.2272998	TTC39A	tetratricopeptide repeat domain 39A
A_24_P175176	2.16E-03	0.2425928	PHTF2	putative homeodomain transcription factor 2
A_33_P3302344	2.16E-03	-0.200311	LOC100128320	uncharacterized LOC100128320
A_33_P3352718	2.16E-03	-0.3005632	C12orf76	chromosome 12 open reading frame 76
A_24_P225878	2.16E-03	0.2769244	KIF9	kinesin family member 9
A_23_P13425	2.15E-03	-0.2823537	CD81	CD81 molecule
A_24_P83437	2.15E-03	-0.2918676	ZNF326	zinc finger protein 326
A_23_P370142	2.15E-03	-0.164305	PAFAH1B2	platelet-activating factor acetylhydrolase 1b, catalytic subunit 2 (30kDa)
A_33_P3419049	2.15E-03	0.2555584		
A_24_P180242	2.15E-03	-0.3671841	STIM2	stromal interaction molecule 2
A_33_P3290909	2.15E-03	0.2563439	SMC1A	structural maintenance of chromosomes 1A
A_33_P3221898	2.15E-03	0.2441447	LOC339240	keratin 17 pseudogene
A_24_P67534	2.15E-03	-0.2631623	CXorf69	chromosome X open reading frame 69
A_33_P3218951	2.15E-03	-0.2055168	RPA1	replication protein A1, 70kDa
A_23_P118749	2.15E-03	0.2125581	DERL2	Der1-like domain family, member 2
A_24_P228611	2.15E-03	0.5431377	FER1L4	fer-1-like 4 (C. elegans) pseudogene
A_23_P66421	2.14E-03	0.2328194	NAT9	N-acetyltransferase 9 (GCN5-related, putative)
A_23_P350451	2.14E-03	0.1821563	PRDM1	PR domain containing 1, with ZNF domain
A_33_P3343106	2.14E-03	-0.5170773	ETV2	ets variant 2
A_33_P3284686	2.14E-03	0.3190003	SSBP3	single stranded DNA binding protein 3
A_33_P3388855	2.14E-03	0.3268197	LRPPRC	leucine-rich PPR-motif containing
A_23_P259521	2.14E-03	0.1984656	WDR41	WD repeat domain 41
A_24_P212481	2.14E-03	-0.3287907	MCTP1	multiple C2 domains, transmembrane 1
A_33_P3278152	2.13E-03	0.2268893		
A_23_P217379	2.13E-03	0.3736579	COL4A6	collagen, type IV, alpha 6
A_23_P100074	2.13E-03	-0.1594869	AVEN	apoptosis, caspase activation inhibitor
A_33_P3264790	2.13E-03	0.2098889	GJD4	gap junction protein, delta 4, 40.1kDa
A_23_P150189	2.12E-03	-0.2117258	MRE11A	MRE11 meiotic recombination 11 homolog A (S. cerevisiae)
A_33_P3212356	2.12E-03	-0.2243085	FAM163B	family with sequence similarity 163, member B
A_23_P125809	2.12E-03	-0.2147705	ZCCHC12	zinc finger, CCHC domain containing 12
A_23_P79488	2.12E-03	-0.2512775	STON1-GTF2A1L	STON1-GTF2A1L readthrough
A_33_P3360912	2.12E-03	-0.2213425	ZNF236	zinc finger protein 236
A_23_P132057	2.12E-03	0.2206649	LINC00158	long intergenic non-protein coding RNA 158
A_23_P82412	2.12E-03	-0.2682184	NSUN5	NOP2/Sun domain family, member 5
A_33_P3371819	2.11E-03	-0.2148203	PTCD2	pentatricopeptide repeat domain 2
A_24_P242820	2.11E-03	-0.2219886	TSN	translin
A_32_P24376	2.11E-03	0.3328424	LOC730755	keratin associated protein 2-4-like
A_33_P3278868	2.11E-03	-0.2246703	HEATR5A	HEAT repeat containing 5A

A_33_P3415265	2.11E-03	0.2571871	CPLX4	complexin 4
A_23_P18292	2.11E-03	-0.238596	RPL14	ribosomal protein L14
A_23_P435833	2.11E-03	0.3022294	FUBP3	far upstream element (FUSE) binding protein 3
A_23_P334883	2.11E-03	0.1910077	SHANK2	SH3 and multiple ankyrin repeat domains 2
A_24_P178148	2.10E-03	-0.2560347		
A_23_P337753	2.10E-03	0.182852	SP140L	SP140 nuclear body protein-like
A_23_P112260	2.10E-03	-0.3287894	GNG10	guanine nucleotide binding protein (G protein), gamma 10
A_33_P3266823	2.10E-03	-0.2075353	VWA5B2	von Willebrand factor A domain containing 5B2
A_33_P3371215	2.10E-03	-0.1723791		
A_32_P129752	2.10E-03	-0.3424742	TMEM30B	transmembrane protein 30B
A_33_P3225567	2.09E-03	-0.9069767	TRMT2B	TRM2 tRNA methyltransferase 2 homolog B (<i>S. cerevisiae</i>)
A_23_P214300	2.09E-03	-0.1726769	GSTA2	glutathione S-transferase alpha 2
A_32_P703	2.09E-03	-0.2942101	LOC646626	uncharacterized LOC646626
A_33_P3357773	2.09E-03	-0.2223921		
A_33_P3577671	2.08E-03	-0.1899507	DPP8	dipeptidyl-peptidase 8
A_33_P3417113	2.08E-03	-0.2300722	NPSR1	neuropeptide S receptor 1
A_23_P208523	2.08E-03	-0.1708456	LENG1	leukocyte receptor cluster (LRC) member 1
A_24_P394420	2.08E-03	0.2433648	SFXN1	sideroflexin 1
A_23_P30307	2.08E-03	-0.2003689	MED7	mediator complex subunit 7
A_33_P3259053	2.08E-03	-0.1748478	PSMG4	proteasome (prosome, macropain) assembly chaperone 4
A_23_P131096	2.08E-03	0.2866379	POLRMT	polymerase (RNA) mitochondrial (DNA directed)
A_33_P3666797	2.08E-03	-0.1998598	GPR180	G protein-coupled receptor 180
A_23_P140527	2.07E-03	0.2576598	FOXB1	forkhead box B1
A_23_P149695	2.07E-03	-0.2000032	ATP1A1OS	ATP1A1 opposite strand
A_33_P3231557	2.07E-03	-0.2450038	CDC14B	CDC14 cell division cycle 14 homolog B (<i>S. cerevisiae</i>)
A_32_P216734	2.07E-03	-0.3744208	SPDYE3	speedy homolog E3 (<i>Xenopus laevis</i>)
A_23_P35995	2.06E-03	0.2649407	CLMP	CXADR-like membrane protein
A_33_P3335940	2.06E-03	0.2708979	HN1L	hematological and neurological expressed 1-like
A_33_P3380032	2.06E-03	0.1669859	PRAMEF13	PRAME family member 13
A_24_P49214	2.06E-03	0.2483078	C1orf86	chromosome 1 open reading frame 86
A_33_P3677061	2.05E-03	-0.2496504	LOC283887	uncharacterized LOC283887
A_23_P168868	2.05E-03	-0.1994404	PTDSS1	phosphatidylserine synthase 1
A_33_P3343531	2.05E-03	0.2197943	OR5M8	olfactory receptor, family 5, subfamily M, member 8
A_23_P218937	2.05E-03	-0.2004507	PCDHGC3	protocadherin gamma subfamily C, 3
A_33_P3303355	2.05E-03	0.3290458		
A_23_P343808	2.05E-03	-0.2376211	SOS1	son of sevenless homolog 1 (<i>Drosophila</i>)
A_24_P56689	2.05E-03	-0.3170889	ZNF205	zinc finger protein 205
A_33_P3289810	2.05E-03	-0.2440201	LOC100509091	uncharacterized LOC100509091
A_33_P3317589	2.05E-03	-0.1867686	GFRA4	GDNF family receptor alpha 4
A_23_P321320	2.05E-03	-0.2284213	STK11IP	serine/threonine kinase 11 interacting protein
A_24_P287974	2.05E-03	0.298948	CUEDC1	CUE domain containing 1

A_23_P47806	2.04E-03	0.2507862	MIP	major intrinsic protein of lens fiber
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