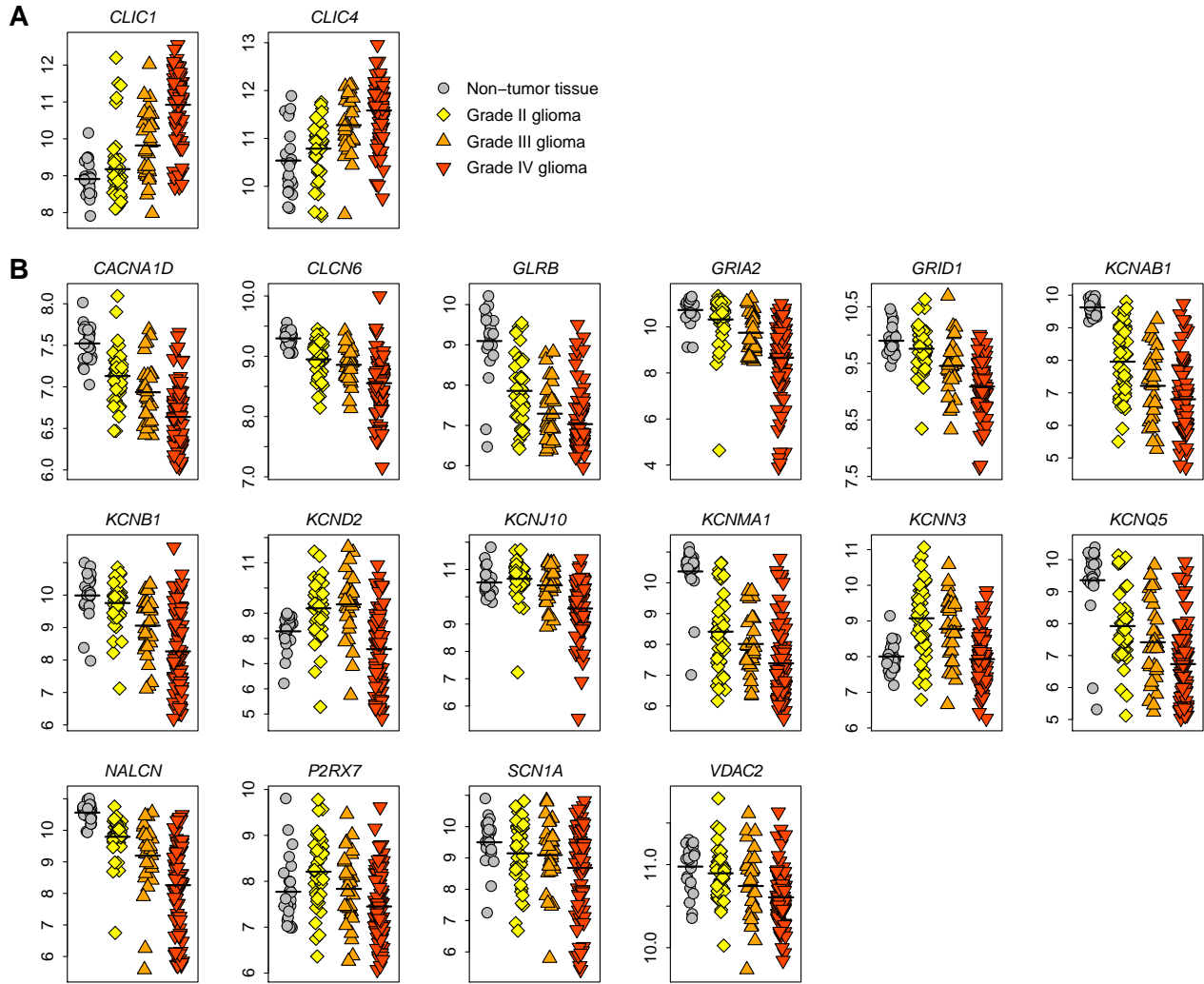


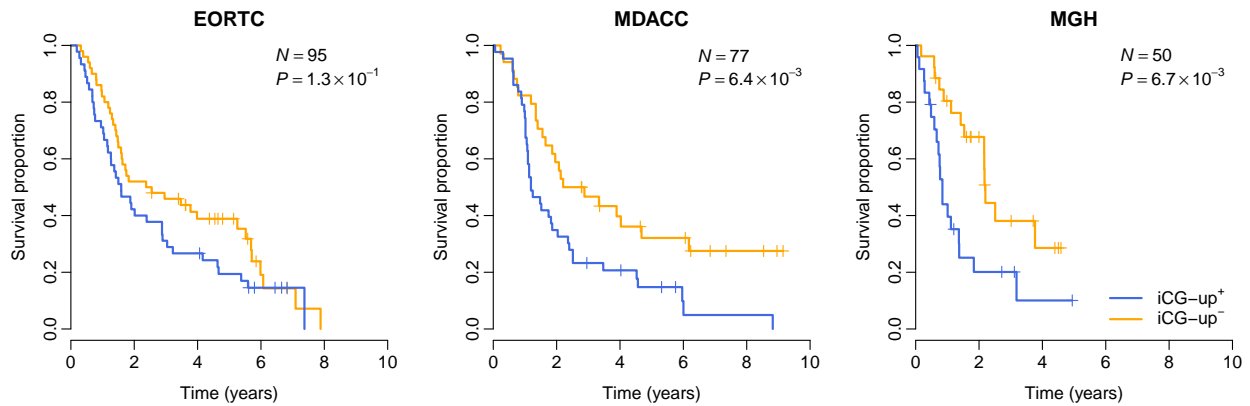
**Supplementary information of “Ion channel gene  
expression predicts survival in glioma patients”**

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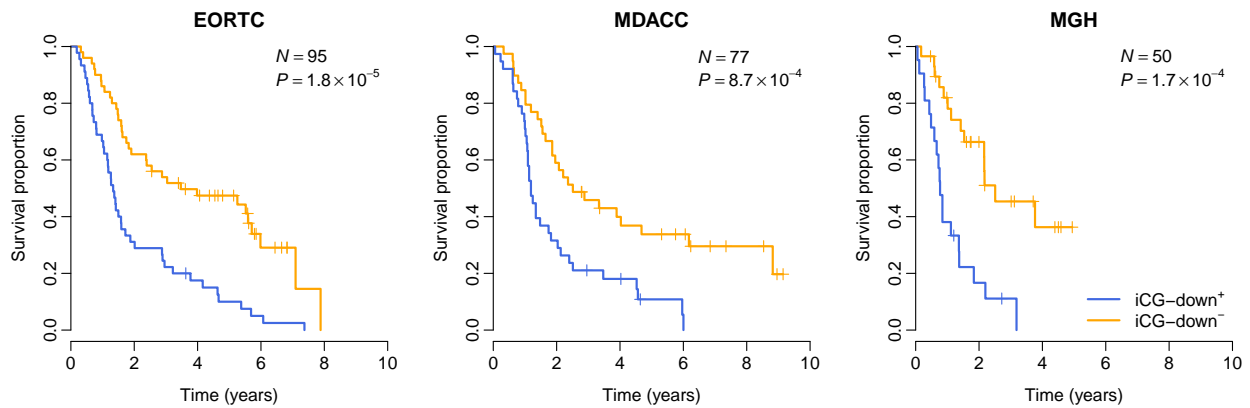
March 20, 2015



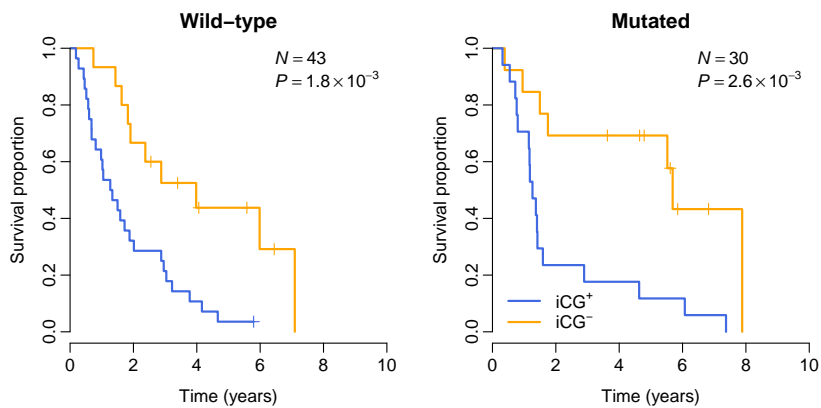
**Supplementary Figure S1. Deregulated ion channel genes in glioma (HFH).** The gene expression data were from the HFH cohort. (A) The two ion channel genes that are up-regulated in high-grade glioma. (B) The 16 ion channel genes that are down-regulated in high-grade glioma. For the gene with multiple probe sets, only the probe set with the most significant  $P$ -value was plotted. The horizontal black line indicates the mean of each category. Y-axis:  $\log_2$ -transformed expression values.



**Supplementary Figure S2. Kaplan-Meier curves for glioma patients in the three validation cohorts (iCG-up).** The expression of iCG-up predicts poor survival in the MDACC and MGH cohorts, but not in the EORTC cohort. The blue curves are for the iCG-up<sup>+</sup> patients while yellow curves are for the iCG-up<sup>-</sup> patients. *P*-values were calculated by log-rank test.



**Supplementary Figure S3. Kaplan-Meier curves for glioma patients in the three validation cohorts (iCG-down).** The expression of iCG-down predicts poor survival in the EORTC, MDACC, and MGH cohorts. The blue curves are for the iCG-down<sup>+</sup> patients while yellow curves are for the iCG-down<sup>-</sup> patients. *P*-values were calculated by log-rank test.



**Supplementary Figure S4. Kaplan-Meier curves for glioma patients grouped by *IDH1* mutation status.** The left panel is for the patients without *IDH1* mutation while the right panel is for the patients with mutated *IDH1*. The expression of iCG predicts poor survival in both the subgroups from the EORTC cohort. The blue curves are for the iCG<sup>+</sup> patients while yellow curves are for the iCG<sup>-</sup> patients. *P*-values were calculated by log-rank test.

**Supplementary Table S1.** Probe sets/ genes that are differentially expressed with glioma grade

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted <i>P</i> -value
205579_at	<i>HRH1</i>	histamine receptor H1	0.738	3.8E-04
1555575_a_at	<i>KDELRL1</i>	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 1	0.724	4.0E-04
227055_at	<i>METTL7B</i>	methyltransferase like 7B	0.720	4.3E-04
216331_at	<i>ITGA7</i>	integrin, alpha 7	0.714	4.7E-04
218257_s_at	<i>UGGT1</i>	UDP-glucose glycoprotein glucosyltransferase 1	0.689	6.3E-04
219118_at	<i>FKBP11</i>	FK506 binding protein 11, 19 kDa	0.677	8.0E-04
210427_x_at	<i>ANXA2</i>	annexin A2	0.677	8.0E-04
222986_s_at	<i>SHISA5</i>	shisa homolog 5 ( <i>Xenopus laevis</i> )	0.673	8.7E-04
210058_at	<i>MAPK13</i>	mitogen-activated protein kinase 13	0.671	8.7E-04
202734_at	<i>TRIP10</i>	thyroid hormone receptor interactor 10	0.667	8.7E-04
37408_at	<i>MRC2</i>	mannose receptor, C type 2	0.666	8.8E-04
203570_at	<i>LOXL1</i>	lysyl oxidase-like 1	0.666	8.8E-04
214315_x_at	<i>CALR</i>	calreticulin	0.665	8.8E-04
1558856_at	<i>DMRTA2</i>	DMRT-like family A2	0.655	1.1E-03
201590_x_at	<i>ANXA2</i>	annexin A2	0.654	1.1E-03
34221_at	<i>HMGXB3</i>	HMG box domain containing 3	0.651	1.2E-03
63009_at	<i>SHQ1</i>	SHQ1 homolog ( <i>S. cerevisiae</i> )	0.651	1.2E-03
217733_s_at	<i>TMSB10</i>	thymosin beta 10	0.648	1.2E-03
213503_x_at	<i>ANXA2</i>	annexin A2	0.648	1.2E-03
208782_at	<i>FSTL1</i>	folliculin-like 1	0.645	1.3E-03
216442_x_at	<i>FNI</i>	fibronectin 1	0.644	1.3E-03
203820_s_at	<i>IGF2BP3</i>	insulin-like growth factor 2 mRNA binding protein 3	0.642	1.3E-03
210495_x_at	<i>FNI</i>	fibronectin 1	0.640	1.4E-03
212464_s_at	<i>FNI</i>	fibronectin 1	0.639	1.4E-03
213693_s_at	<i>MUC1</i>	mucin 1, cell surface associated	0.639	1.4E-03
209395_at	<i>CHI3L1</i>	chitinase 3-like 1 (cartilage glycoprotein-39)	0.630	1.6E-03
224859_at	<i>CD276</i>	CD276 molecule	0.629	1.6E-03
211719_x_at	<i>FNI</i>	fibronectin 1	0.628	1.7E-03
208789_at	<i>PTRF</i>	polymerase I and transcript release factor	0.627	1.7E-03
200770_s_at	<i>LAMC1</i>	laminin, gamma 1 (formerly LAMB2)	0.626	1.7E-03
226060_at	<i>RFT1</i>	RFT1 homolog ( <i>S. cerevisiae</i> )	0.624	1.8E-03
227628_at	<i>GPX8</i>	glutathione peroxidase 8 (putative)	0.623	1.8E-03
218961_s_at	<i>PNKP</i>	polynucleotide kinase 3'-phosphatase	0.623	1.8E-03
202403_s_at	<i>COL1A2</i>	collagen, type I, alpha 2	0.623	1.8E-03
217778_at	<i>SLC39A1</i>	solute carrier family 39 (zinc transporter), member 1	0.622	1.8E-03
204517_at	<i>PPIC</i>	peptidylprolyl isomerase C (cyclophilin C)	0.620	1.9E-03
215076_s_at	<i>COL3A1</i>	collagen, type III, alpha 1	0.620	1.9E-03
228033_at	<i>E2F7</i>	E2F transcription factor 7	0.617	2.0E-03
209626_s_at	<i>OSBPL3</i>	oxysterol binding protein-like 3	0.616	2.1E-03
203021_at	<i>SLPI</i>	secretory leukocyte peptidase inhibitor	0.615	2.1E-03
218795_at	<i>ACP6</i>	acid phosphatase 6, lysophosphatidic	0.615	2.1E-03
200916_at	<i>TAGLN2</i>	transgelin 2	0.614	2.1E-03
220750_s_at	<i>LEPRE1</i>	leucine proline-enriched proteoglycan (leprecan) 1	0.613	2.2E-03
209663_s_at	<i>ITGA7</i>	integrin, alpha 7	0.613	2.2E-03
203411_s_at	<i>LMNA</i>	lamin A/C	0.612	2.2E-03
218424_s_at	<i>STEAP3</i>	STEAP family member 3, metalloredoxase	0.612	2.2E-03
235417_at	<i>SPOCD1</i>	SPOC domain containing 1	0.609	2.3E-03

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
203764_at	<i>DLGAP5</i>	discs, large (Drosophila) homolog-associated protein 5	0.609	2.3E-03
200791_s_at	<i>IQGAP1</i>	IQ motif containing GTPase activating protein 1	0.609	2.3E-03
203706_s_at	<i>FZD7</i>	frizzled family receptor 7	0.609	2.3E-03
211270_x_at	<i>PTBP1</i>	polypyrimidine tract binding protein 1	0.609	2.3E-03
241763_s_at	<i>FBXO32</i>	F-box protein 32	0.609	2.3E-03
226722_at	<i>FAM20C</i>	family with sequence similarity 20, member C	0.608	2.3E-03
229624_at	<i>OPA3</i>	optic atrophy 3 (autosomal recessive, with chorea and spastic paraplegia)	0.608	2.3E-03
211161_s_at	<i>COL3A1</i>	collagen, type III, alpha 1	0.608	2.3E-03
224911_s_at	<i>DCBLD2</i>	discoidin, CUB and LCCL domain containing 2	0.608	2.3E-03
201852_x_at	<i>COL3A1</i>	collagen, type III, alpha 1	0.606	2.4E-03
225032_at	<i>FNDC3B</i>	fibronectin type III domain containing 3B	0.606	2.4E-03
202605_at	<i>GUSB</i>	glucuronidase, beta	0.606	2.4E-03
202404_s_at	<i>COL1A2</i>	collagen, type I, alpha 2	0.606	2.4E-03
243283_at	<i>CROT</i>	carnitine O-octanoyltransferase	0.606	2.4E-03
218959_at	<i>HOXC10</i>	homeobox C10	0.605	2.5E-03
236249_at	<i>IKBIP</i>	IKBKB interacting protein	0.602	2.6E-03
207714_s_at	<i>SERPINH1</i>	serpin peptidase inhibitor, clade H (heat shock protein 47), member 1, (collagen binding protein 1)	0.601	2.7E-03
45297_at	<i>EHD2</i>	EH-domain containing 2	0.600	2.7E-03
203705_s_at	<i>FZD7</i>	frizzled family receptor 7	0.600	2.7E-03
200999_s_at	<i>CKAP4</i>	cytoskeleton-associated protein 4	0.598	2.8E-03
209396_s_at	<i>CHI3L1</i>	chitinase 3-like 1 (cartilage glycoprotein-39)	0.597	2.8E-03
208658_at	<i>PDIA4</i>	protein disulfide isomerase family A, member 4	0.596	2.8E-03
209215_at	<i>MFSD10</i>	major facilitator superfamily domain containing 10	0.595	2.9E-03
218115_at	<i>ASF1B</i>	ASF1 anti-silencing function 1 homolog B ( <i>S. cerevisiae</i> )	0.595	2.9E-03
213811_x_at	<i>TCF3</i>	transcription factor 3 (E2A immunoglobulin enhancer binding factors E12/E47)	0.595	2.9E-03
215199_at	<i>CALD1</i>	caldesmon 1	0.593	3.0E-03
201438_at	<i>COL6A3</i>	collagen, type VI, alpha 3	0.592	3.0E-03
218399_s_at	<i>CDC44</i>	cell division cycle associated 4	0.592	3.0E-03
202238_s_at	<i>NNMT</i>	nicotinamide N-methyltransferase	0.591	3.0E-03
214853_s_at	<i>SHC1</i>	SHC (Src homology 2 domain containing) transforming protein 1	0.591	3.1E-03
203921_at	<i>CHST2</i>	carbohydrate (N-acetylglucosamine-6-O) sulfotransferase 2	0.590	3.1E-03
209156_s_at	<i>COL6A2</i>	collagen, type VI, alpha 2	0.590	3.1E-03
202189_x_at	<i>PTBP1</i>	polypyrimidine tract binding protein 1	0.590	3.1E-03
222206_s_at	<i>NCLN</i>	nicalin	0.587	3.3E-03
236028_at	<i>IBSP</i>	integrin-binding sialoprotein	0.587	3.3E-03
202910_s_at	<i>CD97</i>	CD97 molecule	0.587	3.3E-03
206157_at	<i>PTX3</i>	pentraxin 3, long	0.586	3.3E-03
204549_at	<i>IKBKE</i>	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase epsilon	0.585	3.4E-03
218460_at	<i>HEATR2</i>	HEAT repeat containing 2	0.584	3.5E-03
203857_s_at	<i>PDIA5</i>	protein disulfide isomerase family A, member 5	0.583	3.6E-03
1557938_s_at	<i>PTRF</i>	polymerase I and transcript release factor	0.583	3.6E-03
208637_x_at	<i>ACTN1</i>	actinin, alpha 1	0.583	3.6E-03
206201_s_at	<i>MEOX2</i>	mesenchyme homeobox 2	0.583	3.6E-03
215867_x_at	<i>CA12</i>	carbonic anhydrase XII	0.582	3.7E-03

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
204306_s_at	<i>CD151</i>	CD151 molecule (Raph blood group)	0.581	3.8E-03
204256_at	<i>ELOVL6</i>	ELOVL fatty acid elongase 6	0.581	3.8E-03
201744_s_at	<i>LUM</i>	lumican	0.580	3.9E-03
214164_x_at	<i>CA12</i>	carbonic anhydrase XII	0.580	3.9E-03
200663_at	<i>CD63</i>	CD63 molecule	0.579	3.9E-03
203963_at	<i>CA12</i>	carbonic anhydrase XII	0.579	3.9E-03
203819_s_at	<i>IGF2BP3</i>	insulin-like growth factor 2 mRNA binding protein 3	0.578	4.0E-03
223274_at	<i>TCF19</i>	transcription factor 19	0.578	4.1E-03
228141_at	<i>GPX8</i>	glutathione peroxidase 8 (putative)	0.577	4.1E-03
212109_at	<i>HN1L</i>	hematological and neurological expressed 1-like	0.577	4.1E-03
202237_at	<i>NNMT</i>	nicotinamide N-methyltransferase	0.575	4.3E-03
241762_at	<i>FBXO32</i>	F-box protein 32	0.575	4.3E-03
201664_at	<i>SMC4</i>	structural maintenance of chromosomes 4	0.574	4.3E-03
201749_at	<i>ECE1</i>	endothelin converting enzyme 1	0.574	4.3E-03
219990_at	<i>E2F8</i>	E2F transcription factor 8	0.573	4.4E-03
236285_at	<i>KLHDC7B</i>	kelch domain containing 7B	0.572	4.5E-03
201012_at	<i>ANXA1</i>	annexin A1	0.572	4.5E-03
227870_at	<i>IGDCC4</i>	immunoglobulin superfamily, DCC subclass, member 4	0.572	4.5E-03
218473_s_at	<i>GLT25D1</i>	glycosyltransferase 25 domain containing 1	0.571	4.5E-03
203975_s_at	<i>CHAF1A</i>	chromatin assembly factor 1, subunit A (p150)	0.570	4.6E-03
225415_at	<i>DTX3L</i>	deltex 3-like (Drosophila)	0.570	4.6E-03
227314_at	<i>ITGA2</i>	integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)	0.569	4.7E-03
215049_x_at	<i>CD163</i>	CD163 molecule	0.569	4.8E-03
218542_at	<i>CEP55</i>	centrosomal protein 55kDa	0.569	4.8E-03
219386_s_at	<i>SLAMF8</i>	SLAM family member 8	0.569	4.8E-03
210735_s_at	<i>CA12</i>	carbonic anhydrase XII	0.569	4.8E-03
201324_at	<i>EMPI1</i>	epithelial membrane protein 1	0.568	4.8E-03
204659_s_at	<i>GFER</i>	growth factor, augmenter of liver regeneration	0.567	4.9E-03
227239_at	<i>FAM126A</i>	family with sequence similarity 126, member A	0.567	4.9E-03
1552309_a_at	<i>NEXN</i>	nexilin (F actin binding protein)	0.566	5.0E-03
208688_x_at	<i>EIF3B</i>	eukaryotic translation initiation factor 3, subunit B	0.566	5.0E-03
236278_at	<i>HIST1H3E</i>	Histone cluster 1, H3e	0.566	5.0E-03
227877_at	<i>ANXA2R</i>	annexin A2 receptor	0.565	5.0E-03
204017_at	<i>KDEL3</i>	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 3	0.565	5.1E-03
212077_at	<i>CALD1</i>	caldesmon 1	0.564	5.1E-03
226777_at	<i>ADAM12</i>	ADAM metallopeptidase domain 12	0.564	5.1E-03
203645_s_at	<i>CD163</i>	CD163 molecule	0.564	5.1E-03
204573_at	<i>CROT</i>	carnitine O-octanoyltransferase	0.563	5.2E-03
222693_at	<i>FNDC3B</i>	fibronectin type III domain containing 3B	0.563	5.2E-03
204150_at	<i>STAB1</i>	stabilin 1	0.563	5.2E-03
217738_at	<i>NAMPT</i>	nicotinamide phosphoribosyltransferase	0.563	5.2E-03
244710_at	<i>LRGUK</i>	leucine-rich repeats and guanylate kinase domain containing	0.561	5.5E-03
229802_at	<i>WISP1</i>	WNT1 inducible signaling pathway protein 1	0.561	5.5E-03
204508_s_at	<i>CA12</i>	carbonic anhydrase XII	0.561	5.5E-03
212922_s_at	<i>SMYD2</i>	SET and MYND domain containing 2	0.560	5.5E-03
201105_at	<i>LGALS1</i>	lectin, galactoside-binding, soluble, 1	0.560	5.5E-03



Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
218002_s_at	<i>CXCL14</i>	chemokine (C-X-C motif) ligand 14	0.559	5.6E-03
217739_s_at	<i>NAMPT</i>	nicotinamide phosphoribosyltransferase	0.559	5.6E-03
221729_at	<i>COL5A2</i>	collagen, type V, alpha 2	0.557	5.8E-03
201389_at	<i>ITGA5</i>	integrin, alpha 5 (fibronectin receptor, alpha polypeptide)	0.556	5.9E-03
204932_at	<i>TNFRSF11B</i>	tumor necrosis factor receptor superfamily, member 11b	0.556	6.0E-03
202668_at	<i>EFNB2</i>	ephrin-B2	0.555	6.1E-03
213338_at	<i>TMEM158</i>	transmembrane protein 158 (gene/pseudogene)	0.554	6.1E-03
217770_at	<i>PIGT</i>	phosphatidylinositol glycan anchor biosynthesis, class T	0.554	6.2E-03
223241_at	<i>SNX8</i>	sorting nexin 8	0.554	6.2E-03
208074_s_at	<i>AP2SI</i>	adaptor-related protein complex 2, sigma 1 subunit	0.553	6.3E-03
218070_s_at	<i>GMPPA</i>	GDP-mannose pyrophosphorylase A	0.553	6.3E-03
218662_s_at	<i>NCAPG</i>	non-SMC condensin I complex, subunit G	0.552	6.3E-03
212792_at	<i>DPY19L1</i>	dpy-19-like 1 (C. elegans)	0.552	6.3E-03
218802_at	<i>CCDC109B</i>	coiled-coil domain containing 109B	0.552	6.4E-03
1554600_s_at	<i>LMNA</i>	lamin A/C	0.552	6.4E-03
203282_at	<i>GBE1</i>	glucan (1,4-alpha-), branching enzyme 1	0.552	6.4E-03
222692_s_at	<i>FNDC3B</i>	fibronectin type III domain containing 3B	0.551	6.5E-03
222411_s_at	<i>SSR3</i>	signal sequence receptor, gamma (translocon-associated protein gamma)	0.550	6.5E-03
211964_at	<i>COL4A2</i>	collagen, type IV, alpha 2	0.550	6.6E-03
204646_at	<i>DPYD</i>	dihydropyrimidine dehydrogenase	0.549	6.6E-03
221999_at	<i>VRK3</i>	vaccinia related kinase 3	0.549	6.6E-03
218833_at	<i>ZAK</i>	sterile alpha motif and leucine zipper containing kinase AZK	0.549	6.7E-03
227998_at	<i>S100A16</i>	S100 calcium binding protein A16	0.549	6.7E-03
243750_x_at	<i>FAM207A</i>	family with sequence similarity 207, member A	0.549	6.7E-03
225803_at	<i>FBXO32</i>	F-box protein 32	0.548	6.7E-03
226032_at	<i>CASP2</i>	caspase 2, apoptosis-related cysteine peptidase	0.548	6.7E-03
200839_s_at	<i>CTSB</i>	cathepsin B	0.548	6.8E-03
223363_at	<i>PSMG3</i>	proteasome (prosome, macropain) assembly chaperone 3	0.548	6.8E-03
229400_at	<i>HOXD10</i>	homeobox D10	0.548	6.8E-03
219278_at	<i>MAP3K6</i>	mitogen-activated protein kinase kinase kinase 6	0.547	6.9E-03
224715_at	<i>WDR34</i>	WD repeat domain 34	0.547	6.9E-03
202718_at	<i>IGFBP2</i>	insulin-like growth factor binding protein 2, 36kDa	0.546	7.0E-03
210978_s_at	<i>TAGLN2</i>	transgelin 2	0.546	7.0E-03
212082_s_at	<i>MYL6</i>	myosin, light chain 6, alkali, smooth muscle and non-muscle	0.546	7.0E-03
208636_at	<i>ACTN1</i>	actinin, alpha 1	0.546	7.0E-03
225636_at	<i>STAT2</i>	signal transducer and activator of transcription 2, 113kDa	0.545	7.1E-03
210776_x_at	<i>TCF3</i>	transcription factor 3 (E2A immunoglobulin enhancer binding factors E12/E47)	0.545	7.1E-03
200757_s_at	<i>CALU</i>	calumenin	0.545	7.1E-03
218066_at	<i>SLC12A7</i>	solute carrier family 12 (potassium/chloride transporters), member 7	0.545	7.1E-03
211047_x_at	<i>AP2SI</i>	adaptor-related protein complex 2, sigma 1 subunit	0.545	7.1E-03
229538_s_at	<i>IQGAP3</i>	IQ motif containing GTPase activating protein 3	0.544	7.2E-03
224511_s_at	<i>TXNDC17</i>	thioredoxin domain containing 17	0.543	7.3E-03
228069_at	<i>FAM54A</i>	family with sequence similarity 54, member A	0.543	7.3E-03
226282_at	<i>PTPN14</i>	protein tyrosine phosphatase, non-receptor type 14	0.543	7.4E-03

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
209124_at	<i>MYD88</i>	myeloid differentiation primary response gene (88)	0.541	7.6E-03
201817_at	<i>UBE3C</i>	ubiquitin protein ligase E3C	0.541	7.7E-03
218880_at	<i>FOSL2</i>	FOS-like antigen 2	0.540	7.7E-03
215706_x_at	<i>ZYX</i>	zyxin	0.540	7.7E-03
227807_at	<i>PARP9</i>	poly (ADP-ribose) polymerase family, member 9	0.540	7.7E-03
209263_x_at	<i>TSPAN4</i>	tetraspanin 4	0.539	7.8E-03
202952_s_at	<i>ADAM12</i>	ADAM metallopeptidase domain 12	0.539	7.8E-03
225321_s_at	<i>PILRB</i>	paired immunoglobulin-like type 2 receptor beta	0.539	7.8E-03
204083_s_at	<i>TPM2</i>	tropomyosin 2 (beta)	0.539	7.8E-03
200629_at	<i>WARS</i>	tryptophanyl-tRNA synthetase	0.538	8.0E-03
230022_at	<i>CLEC18A</i>	C-type lectin domain family 18, member A	0.538	8.0E-03
204451_at	<i>FZD1</i>	frizzled family receptor 1	0.538	8.0E-03
204352_at	<i>TRAF5</i>	TNF receptor-associated factor 5	0.538	8.0E-03
212988_x_at	<i>ACTG1</i>	actin, gamma 1	0.538	8.0E-03
209773_s_at	<i>RRM2</i>	ribonucleotide reductase M2	0.538	8.0E-03
218950_at	<i>ARAP3</i>	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 3	0.538	8.0E-03
202596_at	<i>ENSA</i>	endosulfine alpha	0.538	8.0E-03
230036_at	<i>SAMD9L</i>	sterile alpha motif domain containing 9-like	0.537	8.0E-03
205909_at	<i>POLE2</i>	polymerase (DNA directed), epsilon 2, accessory subunit	0.537	8.0E-03
203186_s_at	<i>S100A4</i>	S100 calcium binding protein A4	0.537	8.0E-03
208790_s_at	<i>PTRF</i>	polymerase I and transcript release factor	0.537	8.1E-03
222866_s_at	<i>FLVCR2</i>	feline leukemia virus subgroup C cellular receptor family, member 2	0.537	8.1E-03
222046_at	<i>SRRT</i>	serrate RNA effector molecule homolog (Arabidopsis)	0.536	8.2E-03
205265_s_at	<i>SPEG</i>	SPEG complex locus	0.536	8.2E-03
201941_at	<i>CPD</i>	carboxypeptidase D	0.536	8.3E-03
221730_at	<i>COL5A2</i>	collagen, type V, alpha 2	0.535	8.3E-03
241812_at	<i>SPATS2L</i>	spermatogenesis associated, serine-rich 2-like	0.535	8.3E-03
211126_s_at	<i>CSRP2</i>	cysteine and glycine-rich protein 2	0.534	8.6E-03
210220_at	<i>FZD2</i>	frizzled family receptor 2	0.534	8.6E-03
202381_at	<i>ADAM9</i>	ADAM metallopeptidase domain 9	0.534	8.6E-03
211980_at	<i>COL4A1</i>	collagen, type IV, alpha 1	0.533	8.6E-03
202095_s_at	<i>BIRC5</i>	baculoviral IAP repeat containing 5	0.533	8.6E-03
209651_at	<i>TGFB1I1</i>	transforming growth factor beta 1 induced transcript 1	0.533	8.7E-03
226603_at	<i>SAMD9L</i>	sterile alpha motif domain containing 9-like	0.533	8.7E-03
38487_at	<i>STAB1</i>	stabilin 1	0.533	8.7E-03
203968_s_at	<i>CDC6</i>	cell division cycle 6 homolog (S. cerevisiae)	0.533	8.7E-03
203484_at	<i>SEC61G</i>	Sec61 gamma subunit	0.532	8.9E-03
210609_s_at	<i>TP53I3</i>	tumor protein p53 inducible protein 3	0.531	8.9E-03
217899_at	<i>TMEM214</i>	transmembrane protein 214	0.531	8.9E-03
203729_at	<i>EMP3</i>	epithelial membrane protein 3	0.531	8.9E-03
215198_s_at	<i>CALD1</i>	caldesmon 1	0.531	8.9E-03
206026_s_at	<i>TNFAIP6</i>	tumor necrosis factor, alpha-induced protein 6	0.530	9.2E-03
200771_at	<i>LAMC1</i>	laminin, gamma 1 (formerly LAMB2)	0.529	9.4E-03
207847_s_at	<i>MUC1</i>	mucin 1, cell surface associated	0.528	9.5E-03
218728_s_at	<i>CNIH4</i>	cornichon homolog 4 (Drosophila)	0.528	9.5E-03
212115_at	<i>HN1L</i>	hematological and neurological expressed 1-like	0.528	9.6E-03
229304_s_at	<i>MLF1IP</i>	MLF1 interacting protein	0.526	9.8E-03

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted <i>P</i> -value
223077_at	<i>TMOD3</i>	tropomodulin 3 (ubiquitous)	0.526	9.8E-03
210840_s_at	<i>IQGAP1</i>	IQ motif containing GTPase activating protein 1	0.526	9.9E-03
223690_at	<i>LTBP2</i>	latent transforming growth factor beta binding protein 2	0.526	9.9E-03
206025_s_at	<i>TNFAIP6</i>	tumor necrosis factor, alpha-induced protein 6	0.525	1.0E-02
200808_s_at	<i>ZYX</i>	zyxin	0.525	1.0E-02
204908_s_at	<i>BCL3</i>	B-cell CLL/lymphoma 3	0.523	1.0E-02
223419_at	<i>FBXW9</i>	F-box and WD repeat domain containing 9	0.523	1.0E-02
244427_at	<i>KIF23</i>	Kinesin family member 23	0.523	1.0E-02
202389_s_at	<i>HTT</i>	huntingtin	0.523	1.1E-02
217867_x_at	<i>BACE2</i>	beta-site APP-cleaving enzyme 2	0.522	1.1E-02
1553983_at	<i>DTYMK</i>	deoxythymidylate kinase (thymidylate kinase)	0.522	1.1E-02
208161_s_at	<i>ABCC3</i>	ATP-binding cassette, sub-family C (CFTR/MRP), member 3	0.522	1.1E-02
202185_at	<i>PLOD3</i>	procollagen-lysine, 2-oxoglutarate 5-dioxygenase 3	0.521	1.1E-02
202107_s_at	<i>MCM2</i>	minichromosome maintenance complex component 2	0.521	1.1E-02
225328_at	<i>FBXO32</i>	F-box protein 32	0.521	1.1E-02
207165_at	<i>HMMR</i>	hyaluronan-mediated motility receptor (RHAMM)	0.520	1.1E-02
225285_at	<i>BCAT1</i>	branched chain amino-acid transaminase 1, cytosolic	0.520	1.1E-02
209627_s_at	<i>OSBPL3</i>	oxysterol binding protein-like 3	0.520	1.1E-02
210001_s_at	<i>SOCS1</i>	suppressor of cytokine signaling 1	0.520	1.1E-02
213730_x_at	<i>TCF3</i>	transcription factor 3 (E2A immunoglobulin enhancer binding factors E12/E47)	0.520	1.1E-02
221587_s_at	<i>C19orf24</i>	chromosome 19 open reading frame 24	0.519	1.1E-02
223361_at	<i>ABRA1</i>	ABRA C-terminal like	0.519	1.1E-02
205266_at	<i>LIF</i>	leukemia inhibitory factor	0.519	1.1E-02
38158_at	<i>ESPL1</i>	extra spindle pole bodies homolog 1 ( <i>S. cerevisiae</i> )	0.519	1.1E-02
200755_s_at	<i>CALU</i>	calumenin	0.519	1.1E-02
221710_x_at	<i>FAM176B</i>	family with sequence similarity 176, member B	0.519	1.1E-02
201505_at	<i>LAMB1</i>	laminin, beta 1	0.519	1.1E-02
219923_at	<i>TRIM45</i>	tripartite motif containing 45	0.518	1.1E-02
212212_s_at	<i>INTS1</i>	integrator complex subunit 1	0.518	1.1E-02
206364_at	<i>KIF14</i>	kinesin family member 14	0.518	1.1E-02
212971_at	<i>CARS</i>	cysteinyl-tRNA synthetase	0.518	1.1E-02
217967_s_at	<i>FAM129A</i>	family with sequence similarity 129, member A	0.518	1.1E-02
41660_at	<i>CELSR1</i>	cadherin, EGF LAG seven-pass G-type receptor 1 (flamingo homolog, <i>Drosophila</i> )	0.518	1.1E-02
211271_x_at	<i>PTBP1</i>	polypyrimidine tract binding protein 1	0.517	1.2E-02
202503_s_at	<i>KIAA0101</i>	KIAA0101	0.517	1.2E-02
226103_at	<i>NEXN</i>	nexilin (F actin binding protein)	0.517	1.2E-02
222871_at	<i>KLHDC8A</i>	kelch domain containing 8A	0.517	1.2E-02
204682_at	<i>LTBP2</i>	latent transforming growth factor beta binding protein 2	0.516	1.2E-02
207030_s_at	<i>CSRP2</i>	cysteine and glycine-rich protein 2	0.516	1.2E-02
55583_at	<i>DOCK6</i>	dedicator of cytokinesis 6	0.516	1.2E-02
226416_at	<i>ERII</i>	exoribonuclease 1	0.515	1.2E-02
204608_at	<i>ASL</i>	argininosuccinate lyase	0.515	1.2E-02
202175_at	<i>CHPF</i>	chondroitin polymerizing factor	0.515	1.2E-02
215438_x_at	<i>GSPT1</i>	G1 to S phase transition 1	0.515	1.2E-02
201325_s_at	<i>EMPI1</i>	epithelial membrane protein 1	0.515	1.2E-02
226113_at	<i>ZNF436</i>	zinc finger protein 436	0.515	1.2E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
222581_at	<i>XPR1</i>	xenotropic and polytropic retrovirus receptor 1	0.514	1.2E-02
223376_s_at	<i>BRI3</i>	brain protein I3	0.514	1.2E-02
200660_at	<i>SI00A11</i>	S100 calcium binding protein A11	0.514	1.2E-02
38703_at	<i>DNPEP</i>	aspartyl aminopeptidase	0.513	1.2E-02
205339_at	<i>STIL</i>	SCL/TAL1 interrupting locus	0.513	1.3E-02
208079_s_at	<i>AURKA</i>	aurora kinase A	0.513	1.3E-02
211966_at	<i>COL4A2</i>	collagen, type IV, alpha 2	0.512	1.3E-02
229350_x_at	<i>PARP10</i>	poly (ADP-ribose) polymerase family, member 10	0.512	1.3E-02
218585_s_at	<i>DTL</i>	denticleless E3 ubiquitin protein ligase homolog (Drosophila)	0.512	1.3E-02
222484_s_at	<i>CXCL14</i>	chemokine (C-X-C motif) ligand 14	0.512	1.3E-02
206858_s_at	<i>HOXC6</i>	homeobox C6	0.512	1.3E-02
225867_at	<i>VASN</i>	vasorin	0.511	1.3E-02
225806_at	<i>AJUBA</i>	ajuba LIM protein	0.510	1.3E-02
202430_s_at	<i>PLSCR1</i>	phospholipid scramblase 1	0.510	1.3E-02
202755_s_at	<i>GPC1</i>	glypican 1	0.510	1.3E-02
203201_at	<i>PMM2</i>	phosphomannomutase 2	0.510	1.3E-02
204844_at	<i>ENPEP</i>	glutamyl aminopeptidase (aminopeptidase A)	0.510	1.3E-02
226661_at	<i>CDCA2</i>	cell division cycle associated 2	0.509	1.3E-02
229247_at	<i>FBLN7</i>	fibulin 7	0.509	1.3E-02
205539_at	<i>AVIL</i>	advillin	0.509	1.3E-02
219493_at	<i>SHCBP1</i>	SHC SH2-domain binding protein 1	0.509	1.3E-02
205059_s_at	<i>IDUA</i>	iduronidase, alpha-L-	0.509	1.3E-02
206688_s_at	<i>CPSF4</i>	cleavage and polyadenylation specific factor 4, 30kDa	0.509	1.3E-02
202276_at	<i>SHFM1</i>	split hand/foot malformation (ectrodactyly) type 1	0.509	1.3E-02
213214_x_at	<i>ACTG1</i>	actin, gamma 1	0.509	1.3E-02
223993_s_at	<i>CNIH4</i>	cornichon homolog 4 (Drosophila)	0.509	1.3E-02
205199_at	<i>CA9</i>	carbonic anhydrase IX	0.508	1.3E-02
226552_at	<i>IER5L</i>	immediate early response 5-like	0.508	1.4E-02
1568634_a_at	<i>LRRRC66</i>	leucine rich repeat containing 66	0.508	1.4E-02
200826_at	<i>SNRPD2</i>	small nuclear ribonucleoprotein D2 polypeptide 16.5kDa	0.508	1.4E-02
226517_at	<i>BCAT1</i>	branched chain amino-acid transaminase 1, cytosolic	0.507	1.4E-02
1558508_a_at	<i>C1orf53</i>	chromosome 1 open reading frame 53	0.507	1.4E-02
224374_s_at	<i>EMILIN2</i>	elastin microfibril interfacier 2	0.506	1.4E-02
226296_s_at	<i>MRPS15</i>	mitochondrial ribosomal protein S15	0.506	1.4E-02
222446_s_at	<i>BACE2</i>	beta-site APP-cleaving enzyme 2	0.506	1.4E-02
221708_s_at	<i>UNC45A</i>	unc-45 homolog A (C. elegans)	0.506	1.4E-02
204702_s_at	<i>NFE2L3</i>	nuclear factor (erythroid-derived 2)-like 3	0.506	1.4E-02
222047_s_at	<i>SRRT</i>	serrate RNA effector molecule homolog (Arabidopsis)	0.506	1.4E-02
227325_at	<i>PRR24</i>	proline rich 24	0.505	1.4E-02
221024_s_at	<i>SLC2A10</i>	solute carrier family 2 (facilitated glucose transporter), member 10	0.505	1.4E-02
218305_at	<i>IPO4</i>	importin 4	0.505	1.4E-02
213373_s_at	<i>CASP8</i>	caspase 8, apoptosis-related cysteine peptidase	0.505	1.4E-02
213428_s_at	<i>COL6A1</i>	collagen, type VI, alpha 1	0.504	1.5E-02
201920_at	<i>SLC20A1</i>	solute carrier family 20 (phosphate transporter), member 1	0.504	1.5E-02
207157_s_at	<i>GNG5</i>	guanine nucleotide binding protein (G protein), gamma 5	0.504	1.5E-02
213226_at	<i>CCNA2</i>	cyclin A2	0.503	1.5E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
202733_at	<i>P4HA2</i>	prolyl 4-hydroxylase, alpha polypeptide II	0.503	1.5E-02
55093_at	<i>CHPF2</i>	chondroitin polymerizing factor 2	0.503	1.5E-02
212235_at	<i>PLXND1</i>	plexin D1	0.503	1.5E-02
244533_at	<i>PTPN14</i>	protein tyrosine phosphatase, non-receptor type 14	0.503	1.5E-02
235545_at	<i>DEPDC1</i>	DEP domain containing 1	0.503	1.5E-02
201943_s_at	<i>CPD</i>	carboxypeptidase D	0.503	1.5E-02
219025_at	<i>CD248</i>	CD248 molecule, endosialin	0.503	1.5E-02
204483_at	<i>ENO3</i>	enolase 3 (beta, muscle)	0.502	1.5E-02
1559946_s_at	<i>RUVBL2</i>	RuvB-like 2 (E. coli)	0.502	1.5E-02
209714_s_at	<i>CDKN3</i>	cyclin-dependent kinase inhibitor 3	0.502	1.5E-02
223923_at	<i>C21orf62</i>	chromosome 21 open reading frame 62	0.502	1.5E-02
211250_s_at	<i>SH3BP2</i>	SH3-domain binding protein 2	0.502	1.5E-02
209803_s_at	<i>PHLDA2</i>	pleckstrin homology-like domain, family A, member 2	0.502	1.5E-02
224699_s_at	<i>ESYT2</i>	extended synaptotagmin-like protein 2	0.502	1.5E-02
228776_at	<i>GJC1</i>	gap junction protein, gamma 1, 45kDa	0.502	1.5E-02
230147_at	<i>F2RL2</i>	coagulation factor II (thrombin) receptor-like 2	0.502	1.5E-02
231876_at	<i>TRIM56</i>	tripartite motif containing 56	0.502	1.5E-02
223995_at	<i>SLC12A9</i>	solute carrier family 12 (potassium/chloride transporters), member 9	0.501	1.5E-02
224097_s_at	<i>F11R</i>	F11 receptor	0.501	1.5E-02
215760_s_at	<i>SBNO2</i>	strawberry notch homolog 2 (Drosophila)	0.501	1.5E-02
44654_at	<i>G6PC3</i>	glucose 6 phosphatase, catalytic, 3	0.501	1.5E-02
209454_s_at	<i>TEAD3</i>	TEA domain family member 3	0.500	1.6E-02
202627_s_at	<i>SERPINE1</i>	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	0.499	1.6E-02
201160_s_at	<i>CSDA</i>	cold shock domain protein A	0.499	1.6E-02
211651_s_at	<i>LAMB1</i>	laminin, beta 1	0.499	1.6E-02
218982_s_at	<i>MRPS17</i>	mitochondrial ribosomal protein S17	0.498	1.6E-02
201680_x_at	<i>SRRT</i>	serrate RNA effector molecule homolog (Arabidopsis)	0.498	1.6E-02
203474_at	<i>IQGAP2</i>	IQ motif containing GTPase activating protein 2	0.498	1.6E-02
43977_at	<i>TMEM161A</i>	transmembrane protein 161A	0.498	1.6E-02
219773_at	<i>NOX4</i>	NADPH oxidase 4	0.498	1.6E-02
205812_s_at	<i>TMED9</i>	transmembrane emp24 protein transport domain containing 9	0.498	1.6E-02
213523_at	<i>CCNE1</i>	cyclin E1	0.498	1.6E-02
217750_s_at	<i>UBE2Z</i>	ubiquitin-conjugating enzyme E2Z	0.497	1.6E-02
200838_at	<i>CTSB</i>	cathepsin B	0.497	1.6E-02
203560_at	<i>GGH</i>	gamma-glutamyl hydrolase (conjugase, folylpolyglutamyl hydrolase)	0.497	1.6E-02
203164_at	<i>SLC33A1</i>	solute carrier family 33 (acetyl-CoA transporter), member 1	0.497	1.6E-02
223222_at	<i>SLC25A19</i>	solute carrier family 25 (mitochondrial thiamine pyrophosphate carrier), member 19	0.497	1.6E-02
210183_x_at	<i>PNN</i>	pinin, desmosome associated protein	0.497	1.6E-02
222757_s_at	<i>ZAK</i>	sterile alpha motif and leucine zipper containing kinase AZK	0.497	1.6E-02
210095_s_at	<i>IGFBP3</i>	insulin-like growth factor binding protein 3	0.496	1.7E-02
211429_s_at	<i>SERPINA1</i>	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1	0.496	1.7E-02
203576_at	<i>BCAT2</i>	branched chain amino-acid transaminase 2, mitochondrial	0.496	1.7E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted <i>P</i> -value
212086_x_at	<i>LMNA</i>	lamin A/C	0.496	1.7E-02
202120_x_at	<i>AP2S1</i>	adaptor-related protein complex 2, sigma 1 subunit	0.496	1.7E-02
210150_s_at	<i>LAMA5</i>	laminin, alpha 5	0.496	1.7E-02
201110_s_at	<i>THBS1</i>	thrombospondin 1	0.496	1.7E-02
244654_at	<i>MYO1G</i>	myosin IG	0.495	1.7E-02
1562415_a_at	<i>SPOCD1</i>	SPOC domain containing 1	0.495	1.7E-02
213418_at	<i>HSPA6</i>	heat shock 70kDa protein 6 (HSP70B')	0.495	1.7E-02
211713_x_at	<i>KIAA0101</i>	KIAA0101	0.495	1.7E-02
225605_at	<i>TP53I13</i>	tumor protein p53 inducible protein 13	0.494	1.7E-02
202016_at	<i>MEST</i>	mesoderm specific transcript homolog (mouse)	0.494	1.7E-02
208815_x_at	<i>HSPA4</i>	heat shock 70kDa protein 4	0.493	1.8E-02
201422_at	<i>IFI30</i>	interferon, gamma-inducible protein 30	0.493	1.8E-02
217966_s_at	<i>FAM129A</i>	family with sequence similarity 129, member A	0.493	1.8E-02
213139_at	<i>SNAI2</i>	snail homolog 2 (Drosophila)	0.493	1.8E-02
38671_at	<i>PLXND1</i>	plexin D1	0.492	1.8E-02
201069_at	<i>MMP2</i>	matrix metalloproteinase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase)	0.492	1.8E-02
201890_at	<i>RRM2</i>	ribonucleotide reductase M2	0.492	1.8E-02
1558693_s_at	<i>C1orf85</i>	chromosome 1 open reading frame 85	0.492	1.8E-02
202870_s_at	<i>CDC20</i>	cell division cycle 20 homolog (S. cerevisiae)	0.492	1.8E-02
211668_s_at	<i>PLAU</i>	plasminogen activator, urokinase	0.492	1.8E-02
222154_s_at	<i>SPATS2L</i>	spermatogenesis associated, serine-rich 2-like	0.492	1.8E-02
216306_x_at	<i>PTBP1</i>	polypyrimidine tract binding protein 1	0.491	1.8E-02
203046_s_at	<i>TIMELESS</i>	timeless homolog (Drosophila)	0.491	1.8E-02
227013_at	<i>LATS2</i>	LATS, large tumor suppressor, homolog 2 (Drosophila)	0.491	1.8E-02
217716_s_at	<i>SEC61A1</i>	Sec61 alpha 1 subunit (S. cerevisiae)	0.491	1.8E-02
200654_at	<i>P4HB</i>	prolyl 4-hydroxylase, beta polypeptide	0.491	1.8E-02
1558511_s_at	<i>ESYT2</i>	extended synaptotagmin-like protein 2	0.491	1.8E-02
201584_s_at	<i>DDX39A</i>	DEAD (Asp-Glu-Ala-Asp) box polypeptide 39A	0.491	1.8E-02
200666_s_at	<i>DNAJB1</i>	DnaJ (Hsp40) homolog, subfamily B, member 1	0.490	1.8E-02
206540_at	<i>GLB1L</i>	galactosidase, beta 1-like	0.490	1.8E-02
209129_at	<i>TRIP6</i>	thyroid hormone receptor interactor 6	0.490	1.8E-02
209191_at	<i>TUBB6</i>	tubulin, beta 6 class V	0.489	1.9E-02
211343_s_at	<i>COL13A1</i>	collagen, type XIII, alpha 1	0.489	1.9E-02
210187_at	<i>FKBP1A</i>	FK506 binding protein 1A, 12kDa	0.489	1.9E-02
205381_at	<i>LRRC17</i>	leucine rich repeat containing 17	0.489	1.9E-02
239930_at	<i>GALNT2</i>	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 2 (GalNAc-T2)	0.489	1.9E-02
209172_s_at	<i>CENPF</i>	centromere protein F, 350/400kDa (mitosin)	0.489	1.9E-02
201615_x_at	<i>CALD1</i>	caldesmon 1	0.489	1.9E-02
200903_s_at	<i>AHCY</i>	adenosylhomocysteinase	0.488	1.9E-02
219073_s_at	<i>OSBPL10</i>	oxysterol binding protein-like 10	0.488	1.9E-02
228559_at	<i>CENPN</i>	centromere protein N	0.488	1.9E-02
204998_s_at	<i>ATF5</i>	activating transcription factor 5	0.488	1.9E-02
223159_s_at	<i>NEK6</i>	NIMA (never in mitosis gene a)-related kinase 6	0.488	1.9E-02
201896_s_at	<i>PSRC1</i>	proline/serine-rich coiled-coil 1	0.487	1.9E-02
207828_s_at	<i>CENPF</i>	centromere protein F, 350/400kDa (mitosin)	0.487	1.9E-02
117_at	<i>HSPA6</i>	heat shock 70kDa protein 6 (HSP70B')	0.486	1.9E-02
204641_at	<i>NEK2</i>	NIMA (never in mitosis gene a)-related kinase 2	0.486	1.9E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
201841_s_at	<i>HSPB1</i>	heat shock 27kDa protein 1	0.486	1.9E-02
212809_at	<i>NFATC2IP</i>	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 interacting protein	0.486	1.9E-02
222662_at	<i>PPP1R3B</i>	protein phosphatase 1, regulatory subunit 3B	0.486	1.9E-02
216253_s_at	<i>PARVB</i>	parvin, beta	0.486	2.0E-02
57163_at	<i>ELOVL1</i>	ELOVL fatty acid elongase 1	0.486	2.0E-02
216264_s_at	<i>LAMB2</i>	laminin, beta 2 (laminin S)	0.485	2.0E-02
200923_at	<i>LGALS3BP</i>	lectin, galactoside-binding, soluble, 3 binding protein	0.485	2.0E-02
225345_s_at	<i>FBXO32</i>	F-box protein 32	0.485	2.0E-02
224585_x_at	<i>ACTG1</i>	actin, gamma 1	0.485	2.0E-02
201550_x_at	<i>ACTG1</i>	actin, gamma 1	0.484	2.0E-02
202122_s_at	<i>PLIN3</i>	perilipin 3	0.484	2.0E-02
202868_s_at	<i>POP4</i>	processing of precursor 4, ribonuclease P/MRP subunit (S. cerevisiae)	0.483	2.0E-02
225898_at	<i>WDR54</i>	WD repeat domain 54	0.483	2.0E-02
235508_at	<i>PML</i>	promyelocytic leukemia	0.483	2.1E-02
219066_at	<i>PPCDC</i>	phosphopantothenoylcysteine decarboxylase	0.482	2.1E-02
217728_at	<i>SI00A6</i>	S100 calcium binding protein A6	0.482	2.1E-02
225059_at	<i>AGTRAP</i>	angiotensin II receptor-associated protein	0.482	2.1E-02
213125_at	<i>OLFML2B</i>	olfactomedin-like 2B	0.482	2.1E-02
201555_at	<i>MCM3</i>	minichromosome maintenance complex component 3	0.481	2.1E-02
210999_s_at	<i>GRB10</i>	growth factor receptor-bound protein 10	0.481	2.1E-02
224864_at	<i>SRA1</i>	steroid receptor RNA activator 1	0.481	2.1E-02
1555758_a_at	<i>CDKN3</i>	cyclin-dependent kinase inhibitor 3	0.481	2.1E-02
209211_at	<i>KLF5</i>	Kruppel-like factor 5 (intestinal)	0.481	2.1E-02
220134_x_at	<i>FAM176B</i>	family with sequence similarity 176, member B	0.481	2.1E-02
212015_x_at	<i>PTBP1</i>	polypyrimidine tract binding protein 1	0.481	2.1E-02
238532_at	<i>DPF3</i>	D4, zinc and double PHD fingers, family 3	0.480	2.1E-02
2028_s_at	<i>E2F1</i>	E2F transcription factor 1	0.480	2.1E-02
204298_s_at	<i>LOX</i>	lysyl oxidase	0.480	2.1E-02
205479_s_at	<i>PLAU</i>	plasminogen activator, urokinase	0.480	2.1E-02
209100_at	<i>IFRD2</i>	interferon-related developmental regulator 2	0.480	2.1E-02
227313_at	<i>CNPY4</i>	canopy 4 homolog (zebrafish)	0.480	2.1E-02
204342_at	<i>SLC25A24</i>	solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 24	0.480	2.1E-02
226217_at	<i>SLC30A7</i>	solute carrier family 30 (zinc transporter), member 7	0.480	2.1E-02
210023_s_at	<i>PCGF1</i>	polycomb group ring finger 1	0.479	2.2E-02
235834_at	<i>CALD1</i>	Caldesmon 1	0.479	2.2E-02
215566_x_at	<i>LYPLA2</i>	lysophospholipase II	0.479	2.2E-02
238075_at	<i>CHEK1</i>	checkpoint kinase 1	0.479	2.2E-02
237817_at	<i>SSR3</i>	signal sequence receptor, gamma (translocon-associated protein gamma)	0.479	2.2E-02
212364_at	<i>MYO1B</i>	myosin IB	0.479	2.2E-02
204252_at	<i>CDK2</i>	cyclin-dependent kinase 2	0.478	2.2E-02
218543_s_at	<i>PARP12</i>	poly (ADP-ribose) polymerase family, member 12	0.478	2.2E-02
225592_at	<i>NRM</i>	nurim (nuclear envelope membrane protein)	0.478	2.2E-02
37965_at	<i>PARVB</i>	parvin, beta	0.478	2.2E-02
201617_x_at	<i>CALD1</i>	caldesmon 1	0.478	2.2E-02
203967_at	<i>CDC6</i>	cell division cycle 6 homolog (S. cerevisiae)	0.478	2.2E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
41220_at	<i>SEPT9</i>	septin 9	0.478	2.2E-02
217937_s_at	<i>HDAC7</i>	histone deacetylase 7	0.478	2.2E-02
212472_at	<i>MICAL2</i>	microtubule associated monooxygenase, calponin and LIM domain containing 2	0.477	2.2E-02
206662_at	<i>GLRX</i>	glutaredoxin (thioltransferase)	0.477	2.2E-02
215380_s_at	<i>GGCT</i>	gamma-glutamylcyclotransferase	0.477	2.2E-02
209408_at	<i>KIF2C</i>	kinesin family member 2C	0.477	2.2E-02
226294_x_at	<i>FAM91A1</i>	family with sequence similarity 91, member A1	0.477	2.2E-02
233333_x_at	<i>AVIL</i>	advillin	0.477	2.2E-02
221923_s_at	<i>NPM1</i>	nucleophosmin (nucleolar phosphoprotein B23, numatrin)	0.476	2.2E-02
229587_at	<i>UBA2</i>	ubiquitin-like modifier activating enzyme 2	0.476	2.2E-02
207011_s_at	<i>PTK7</i>	PTK7 protein tyrosine kinase 7	0.476	2.2E-02
203554_x_at	<i>PTTG1</i>	pituitary tumor-transforming 1	0.476	2.2E-02
208436_s_at	<i>IRF7</i>	interferon regulatory factor 7	0.476	2.2E-02
200827_at	<i>PLOD1</i>	procollagen-lysine, 2-oxoglutarate 5-dioxygenase 1	0.476	2.2E-02
211970_x_at	<i>ACTG1</i>	actin, gamma 1	0.476	2.2E-02
209709_s_at	<i>HMMR</i>	hyaluronan-mediated motility receptor (RHAMM)	0.476	2.3E-02
212312_at	<i>BCL2L1</i>	BCL2-like 1	0.475	2.3E-02
204822_at	<i>TTK</i>	TTK protein kinase	0.475	2.3E-02
212320_at	<i>TUBB</i>	tubulin, beta class I	0.475	2.3E-02
220968_s_at	<i>TSPAN9</i>	tetraspanin 9	0.475	2.3E-02
201616_s_at	<i>CALD1</i>	caldesmon 1	0.474	2.3E-02
203325_s_at	<i>COL5A1</i>	collagen, type V, alpha 1	0.474	2.3E-02
213911_s_at	<i>H2AFZ</i>	H2A histone family, member Z	0.474	2.3E-02
214710_s_at	<i>CCNB1</i>	cyclin B1	0.474	2.3E-02
202756_s_at	<i>GPC1</i>	glypican 1	0.474	2.3E-02
218983_at	<i>C1RL</i>	complement component 1, r subcomponent-like	0.474	2.3E-02
208659_at	<i>CLIC1</i>	chloride intracellular channel 1	0.473	2.3E-02
207808_s_at	<i>PROS1</i>	protein S (alpha)	0.473	2.4E-02
218541_s_at	<i>C8orf4</i>	chromosome 8 open reading frame 4	0.473	2.4E-02
203240_at	<i>FCGBP</i>	Fc fragment of IgG binding protein	0.473	2.4E-02
205547_s_at	<i>TAGLN</i>	transgelin	0.472	2.4E-02
223158_s_at	<i>NEK6</i>	NIMA (never in mitosis gene a)-related kinase 6	0.472	2.4E-02
223389_s_at	<i>ZNF581</i>	zinc finger protein 581	0.472	2.4E-02
209806_at	<i>HIST1H2BK</i>	histone cluster 1, H2bk	0.472	2.4E-02
202709_at	<i>FMOD</i>	fibromodulin	0.472	2.4E-02
32811_at	<i>MYO1C</i>	myosin IC	0.472	2.4E-02
201508_at	<i>IGFBP4</i>	insulin-like growth factor binding protein 4	0.472	2.4E-02
201097_s_at	<i>ARF4</i>	ADP-ribosylation factor 4	0.471	2.4E-02
219178_at	<i>QTRTD1</i>	queuine tRNA-ribosyltransferase domain containing 1	0.471	2.4E-02
202655_at	<i>MANF</i>	mesencephalic astrocyte-derived neurotrophic factor	0.471	2.4E-02
211945_s_at	<i>ITGB1</i>	integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12)	0.471	2.4E-02
218840_s_at	<i>NADSYN1</i>	NAD synthetase 1	0.471	2.4E-02
160020_at	<i>MMP14</i>	matrix metalloproteinase 14 (membrane-inserted)	0.471	2.4E-02
210355_at	<i>PTH1H</i>	parathyroid hormone-like hormone	0.471	2.4E-02
216237_s_at	<i>MCM5</i>	minichromosome maintenance complex component 5	0.471	2.4E-02
226071_at	<i>ADAMTSL4</i>	ADAMTS-like 4	0.471	2.4E-02



Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
202856_s_at	<i>SLC16A3</i>	solute carrier family 16, member 3 (monocarboxylic acid transporter 4)	0.470	2.5E-02
211983_x_at	<i>ACTG1</i>	actin, gamma 1	0.469	2.5E-02
230448_at	<i>SLC38A10</i>	solute carrier family 38, member 10	0.469	2.5E-02
1553764_a_at	<i>AJUBA</i>	ajuba LIM protein	0.469	2.5E-02
212431_at	<i>HMGXB3</i>	HMG box domain containing 3	0.469	2.5E-02
225128_at	<i>KDEL2</i>	KDEL (Lys-Asp-Glu-Leu) containing 2	0.469	2.5E-02
218443_s_at	<i>DAZAP1</i>	DAZ associated protein 1	0.469	2.5E-02
200656_s_at	<i>P4HB</i>	prolyl 4-hydroxylase, beta polypeptide	0.469	2.5E-02
222848_at	<i>CENPK</i>	centromere protein K	0.469	2.5E-02
230518_at	<i>MPZL2</i>	myelin protein zero-like 2	0.468	2.5E-02
221607_x_at	<i>ACTG1</i>	actin, gamma 1	0.468	2.5E-02
228280_at	<i>ZC3HAV1L</i>	zinc finger CCCH-type, antiviral 1-like	0.468	2.5E-02
227188_at	<i>FAM176C</i>	family with sequence similarity 176, member C	0.468	2.6E-02
227295_at	<i>IKBIP</i>	IKBKB interacting protein	0.468	2.6E-02
217784_at	<i>YKT6</i>	YKT6 v-SNARE homolog ( <i>S. cerevisiae</i> )	0.467	2.6E-02
204825_at	<i>MELK</i>	maternal embryonic leucine zipper kinase	0.467	2.6E-02
227894_at	<i>WDR90</i>	WD repeat domain 90	0.467	2.6E-02
201818_at	<i>LPCAT1</i>	lysophosphatidylcholine acyltransferase 1	0.467	2.6E-02
213075_at	<i>OLFML2A</i>	olfactomedin-like 2A	0.467	2.6E-02
213923_at	<i>RAP2B</i>	RAP2B, member of RAS oncogene family	0.467	2.6E-02
204709_s_at	<i>KIF23</i>	kinesin family member 23	0.466	2.6E-02
218248_at	<i>FAM111A</i>	family with sequence similarity 111, member A	0.466	2.6E-02
218618_s_at	<i>FNDC3B</i>	fibronectin type III domain containing 3B	0.466	2.6E-02
223700_at	<i>MND1</i>	meiotic nuclear divisions 1 homolog ( <i>S. cerevisiae</i> )	0.466	2.6E-02
227038_at	<i>SGMS2</i>	sphingomyelin synthase 2	0.466	2.6E-02
209356_x_at	<i>EFEMP2</i>	EGF containing fibulin-like extracellular matrix protein 2	0.465	2.6E-02
219918_s_at	<i>ASPM</i>	asp (abnormal spindle) homolog, microcephaly associated ( <i>Drosophila</i> )	0.465	2.7E-02
219957_at	<i>RUFY2</i>	RUN and FYVE domain containing 2	0.465	2.7E-02
221537_at	<i>PLXNA1</i>	plexin A1	0.465	2.7E-02
222654_at	<i>IMPAD1</i>	inositol monophosphatase domain containing 1	0.465	2.7E-02
220954_s_at	<i>PILRB</i>	paired immunoglobulin-like type 2 receptor beta	0.464	2.7E-02
235113_at	<i>LRR1</i>	leucine rich repeat protein 1	0.464	2.7E-02
225314_at	<i>OCIAD2</i>	OCIA domain containing 2	0.464	2.7E-02
200699_at	<i>KDEL2</i>	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 2	0.463	2.7E-02
202705_at	<i>CCNB2</i>	cyclin B2	0.463	2.7E-02
230165_at	<i>SGOL2</i>	shugoshin-like 2 ( <i>S. pombe</i> )	0.463	2.7E-02
238756_at	<i>GAS2L3</i>	growth arrest-specific 2 like 3	0.463	2.7E-02
200844_s_at	<i>PRDX6</i>	peroxiredoxin 6	0.463	2.7E-02
1553978_at	<i>MEF2BNB</i>	MEF2B neighbor	0.463	2.8E-02
213790_at	<i>ADAM12</i>	ADAM metallopeptidase domain 12	0.463	2.8E-02
213446_s_at	<i>IQGAP1</i>	IQ motif containing GTPase activating protein 1	0.462	2.8E-02
1555997_s_at	<i>IGFBP5</i>	insulin-like growth factor binding protein 5	0.462	2.8E-02
202589_at	<i>TYMS</i>	thymidylate synthetase	0.461	2.8E-02
202804_at	<i>ABCC1</i>	ATP-binding cassette, sub-family C (CFTR/MRP), member 1	0.461	2.8E-02
224598_at	<i>MGAT4B</i>	mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-	0.461	2.8E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
		acetylglucosaminyltransferase, isozyme B		
225269_s_at	<i>RBMS1</i>	RNA binding motif, single stranded interacting protein 1	0.461	2.8E-02
222512_at	<i>NUB1</i>	negative regulator of ubiquitin-like proteins 1	0.460	2.9E-02
226936_at	<i>CENPW</i>	centromere protein W	0.460	2.9E-02
209884_s_at	<i>SLC4A7</i>	solute carrier family 4, sodium bicarbonate cotransporter, member 7	0.460	2.9E-02
219890_at	<i>CLEC5A</i>	C-type lectin domain family 5, member A	0.460	2.9E-02
226814_at	<i>ADAMTS9</i>	ADAM metalloproteinase with thrombospondin type 1 motif, 9	0.460	2.9E-02
203044_at	<i>CHSY1</i>	chondroitin sulfate synthase 1	0.460	2.9E-02
34260_at	<i>TELO2</i>	TEL2, telomere maintenance 2, homolog (S. cerevisiae)	0.460	2.9E-02
208690_s_at	<i>PDLIM1</i>	PDZ and LIM domain 1	0.460	2.9E-02
204078_at	<i>LEPREL4</i>	leprecan-like 4	0.460	2.9E-02
223480_s_at	<i>MRPL47</i>	mitochondrial ribosomal protein L47	0.459	2.9E-02
213521_at	<i>PTPN18</i>	protein tyrosine phosphatase, non-receptor type 18 (brain-derived)	0.459	2.9E-02
1570153_at	<i>CCDC169</i>	coiled-coil domain containing 169	0.458	2.9E-02
232099_at	<i>PCDHB16</i>	protocadherin beta 16	0.458	2.9E-02
213556_at	<i>LOC390940</i>	uncharacterized protein ENSP00000244321	0.458	3.0E-02
236641_at	<i>KIF14</i>	kinesin family member 14	0.458	3.0E-02
226912_at	<i>ZDHHC23</i>	zinc finger, DHHC-type containing 23	0.457	3.0E-02
204490_s_at	<i>CD44</i>	CD44 molecule (Indian blood group)	0.457	3.0E-02
202878_s_at	<i>CD93</i>	CD93 molecule	0.457	3.0E-02
209171_at	<i>ITPA</i>	inosine triphosphatase (nucleoside triphosphate pyrophosphatase)	0.457	3.0E-02
201578_at	<i>PODXL</i>	podocalyxin-like	0.457	3.0E-02
225868_at	<i>TRIM47</i>	tripartite motif containing 47	0.457	3.0E-02
202446_s_at	<i>PLSCR1</i>	phospholipid scramblase 1	0.457	3.0E-02
202620_s_at	<i>PLOD2</i>	procollagen-lysine, 2-oxoglutarate 5-dioxygenase 2	0.456	3.0E-02
204163_at	<i>EMILIN1</i>	elastin microfibril interfacier 1	0.456	3.0E-02
202234_s_at	<i>SLC16A1</i>	solute carrier family 16, member 1 (monocarboxylic acid transporter 1)	0.456	3.0E-02
205690_s_at	<i>BUD31</i>	BUD31 homolog (S. cerevisiae)	0.456	3.0E-02
225263_at	<i>HS6ST1</i>	heparan sulfate 6-O-sulfotransferase 1	0.456	3.1E-02
221739_at	<i>C19orf10</i>	chromosome 19 open reading frame 10	0.456	3.1E-02
212143_s_at	<i>IGFBP3</i>	insulin-like growth factor binding protein 3	0.455	3.1E-02
222606_at	<i>ZWILCH</i>	Zwilch, kinetochore associated, homolog (Drosophila)	0.455	3.1E-02
202894_at	<i>EPHB4</i>	EPH receptor B4	0.455	3.1E-02
222978_at	<i>SURF4</i>	surfeit 4	0.455	3.1E-02
226353_at	<i>SPPL2A</i>	signal peptide peptidase like 2A	0.455	3.1E-02
218368_s_at	<i>TNFRSF12A</i>	tumor necrosis factor receptor superfamily, member 12A	0.454	3.1E-02
222217_s_at	<i>SLC27A3</i>	solute carrier family 27 (fatty acid transporter), member 3	0.454	3.1E-02
219973_at	<i>ARSLJ</i>	arylsulfatase family, member J	0.454	3.1E-02
1553984_s_at	<i>DTYMK</i>	deoxythymidylate kinase (thymidylate kinase)	0.454	3.1E-02
209150_s_at	<i>TM9SF1</i>	transmembrane 9 superfamily member 1	0.454	3.1E-02
203625_x_at	<i>SKP2</i>	S-phase kinase-associated protein 2, E3 ubiquitin protein ligase	0.454	3.1E-02
212255_s_at	<i>ATP2C1</i>	ATPase, Ca <sup>++</sup> transporting, type 2C, member 1	0.453	3.2E-02
230258_at	<i>GLIS3</i>	GLIS family zinc finger 3	0.453	3.2E-02
223417_at	<i>RAD18</i>	RAD18 homolog (S. cerevisiae)	0.453	3.2E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
35626_at	<i>SGSH</i>	N-sulfoglucosamine sulfohydrolase	0.453	3.2E-02
1560116_a_at	<i>NEDD1</i>	neural precursor cell expressed, developmentally down-regulated 1	0.453	3.2E-02
33323_r_at	<i>SFN</i>	stratifin	0.453	3.2E-02
201063_at	<i>RCN1</i>	reticulocalbin 1, EF-hand calcium binding domain	0.452	3.2E-02
200698_at	<i>KDELR2</i>	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 2	0.452	3.2E-02
226980_at	<i>DEPDC1B</i>	DEP domain containing 1B	0.452	3.2E-02
229551_x_at	<i>ZNF367</i>	zinc finger protein 367	0.452	3.2E-02
221245_s_at	<i>FZD5</i>	frizzled family receptor 5	0.452	3.2E-02
232381_s_at	<i>DNAH5</i>	dynein, axonemal, heavy chain 5	0.452	3.2E-02
235158_at	<i>TMEM209</i>	transmembrane protein 209	0.452	3.2E-02
213857_s_at	<i>CD47</i>	CD47 molecule	0.452	3.2E-02
223495_at	<i>CCDC8</i>	coiled-coil domain containing 8	0.452	3.2E-02
212920_at	<i>REST</i>	RE1-silencing transcription factor	0.452	3.2E-02
207443_at	<i>NR2E1</i>	nuclear receptor subfamily 2, group E, member 1	0.451	3.3E-02
204883_s_at	<i>HUS1</i>	HUS1 checkpoint homolog (S. pombe)	0.451	3.3E-02
200700_s_at	<i>KDELR2</i>	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 2	0.450	3.3E-02
218388_at	<i>PGLS</i>	6-phosphogluconolactonase	0.450	3.3E-02
213943_at	<i>TWIST1</i>	twist homolog 1 (Drosophila)	0.450	3.3E-02
223220_s_at	<i>PARP9</i>	poly (ADP-ribose) polymerase family, member 9	0.450	3.3E-02
209835_x_at	<i>CD44</i>	CD44 molecule (Indian blood group)	0.450	3.3E-02
225945_at	<i>ZNF655</i>	zinc finger protein 655	0.450	3.3E-02
201477_s_at	<i>RRM1</i>	ribonucleotide reductase M1	0.450	3.4E-02
204929_s_at	<i>VAMP5</i>	vesicle-associated membrane protein 5 (myobrevin)	0.449	3.4E-02
227361_at	<i>HS3ST3B1</i>	heparan sulfate (glucosamine) 3-O-sulfotransferase 3B1	0.449	3.4E-02
206102_at	<i>GINS1</i>	GINS complex subunit 1 (Psf1 homolog)	0.449	3.4E-02
219539_at	<i>GEMIN6</i>	gem (nuclear organelle) associated protein 6	0.449	3.4E-02
209264_s_at	<i>TSPAN4</i>	tetraspanin 4	0.449	3.4E-02
209302_at	<i>POLR2H</i>	polymerase (RNA) II (DNA directed) polypeptide H	0.449	3.4E-02
211015_s_at	<i>HSPA4</i>	heat shock 70kDa protein 4	0.449	3.4E-02
206111_at	<i>RNASE2</i>	ribonuclease, RNase A family, 2 (liver, eosinophil-derived neurotoxin)	0.449	3.4E-02
201469_s_at	<i>SHC1</i>	SHC (Src homology 2 domain containing) transforming protein 1	0.449	3.4E-02
201655_s_at	<i>HSPG2</i>	heparan sulfate proteoglycan 2	0.449	3.4E-02
206855_s_at	<i>HYAL2</i>	hyaluronoglucosaminidase 2	0.449	3.4E-02
209410_s_at	<i>GRB10</i>	growth factor receptor-bound protein 10	0.449	3.4E-02
225075_at	<i>PDRG1</i>	p53 and DNA-damage regulated 1	0.448	3.4E-02
201292_at	<i>TOP2A</i>	topoisomerase (DNA) II alpha 170kDa	0.448	3.4E-02
219331_s_at	<i>KLHDC8A</i>	kelch domain containing 8A	0.448	3.4E-02
221845_s_at	<i>CLPB</i>	ClpB caseinolytic peptidase B homolog (E. coli)	0.448	3.4E-02
229305_at	<i>MLF1IP</i>	MLF1 interacting protein	0.448	3.4E-02
212921_at	<i>SMYD2</i>	SET and MYND domain containing 2	0.447	3.5E-02
209708_at	<i>MOXD1</i>	monooxygenase, DBH-like 1	0.447	3.5E-02
219787_s_at	<i>ECT2</i>	epithelial cell transforming sequence 2 oncogene	0.447	3.5E-02
204159_at	<i>CDKN2C</i>	cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4)	0.447	3.5E-02
209267_s_at	<i>SLC39A8</i>	solute carrier family 39 (zinc transporter), member 8	0.447	3.5E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
201291_s_at	<i>TOP2A</i>	topoisomerase (DNA) II alpha 170kDa	0.446	3.5E-02
223835_x_at	<i>OTP</i>	orthopedia homeobox	0.446	3.5E-02
219203_at	<i>EMC9</i>	ER membrane protein complex subunit 9	0.446	3.5E-02
211926_s_at	<i>MYH9</i>	myosin, heavy chain 9, non-muscle	0.446	3.5E-02
200601_at	<i>ACTN4</i>	actinin, alpha 4	0.446	3.5E-02
232238_at	<i>ASPM</i>	asp (abnormal spindle) homolog, microcephaly associated (Drosophila)	0.446	3.5E-02
201850_at	<i>CAPG</i>	capping protein (actin filament), gelsolin-like	0.446	3.5E-02
202766_s_at	<i>FBN1</i>	fibrillin 1	0.446	3.5E-02
207455_at	<i>P2RY1</i>	purinergic receptor P2Y, G-protein coupled, 1	0.446	3.5E-02
212646_at	<i>RFTN1</i>	raftlin, lipid raft linker 1	0.446	3.5E-02
231406_at	<i>ORAI2</i>	ORAI calcium release-activated calcium modulator 2	0.445	3.6E-02
203649_s_at	<i>PLA2G2A</i>	phospholipase A2, group IIA (platelets, synovial fluid)	0.445	3.6E-02
223172_s_at	<i>MTFP1</i>	mitochondrial fission process 1	0.445	3.6E-02
202801_at	<i>PRKACA</i>	protein kinase, cAMP-dependent, catalytic, alpha	0.445	3.6E-02
211042_x_at	<i>MCAM</i>	melanoma cell adhesion molecule	0.445	3.6E-02
218807_at	<i>VAV3</i>	vav 3 guanine nucleotide exchange factor	0.445	3.6E-02
235384_at	<i>NUDT19</i>	nudix (nucleoside diphosphate linked moiety X)-type motif 19	0.445	3.6E-02
213616_at	<i>TPGS2</i>	tubulin polyglutamylase complex subunit 2	0.444	3.6E-02
203947_at	<i>CSTF3</i>	cleavage stimulation factor, 3' pre-RNA, subunit 3, 77kDa	0.444	3.6E-02
204175_at	<i>ZNF593</i>	zinc finger protein 593	0.444	3.6E-02
213076_at	<i>ITPKC</i>	inositol-trisphosphate 3-kinase C	0.444	3.6E-02
207643_s_at	<i>TNFRSF1A</i>	tumor necrosis factor receptor superfamily, member 1A	0.444	3.6E-02
208368_s_at	<i>BRCA2</i>	breast cancer 2, early onset	0.444	3.6E-02
223474_at	<i>IRF2BPL</i>	interferon regulatory factor 2 binding protein-like	0.444	3.6E-02
209969_s_at	<i>STAT1</i>	signal transducer and activator of transcription 1, 91kDa	0.444	3.6E-02
226949_at	<i>GOLGA3</i>	golgin A3	0.444	3.6E-02
202805_s_at	<i>ABCC1</i>	ATP-binding cassette, sub-family C (CFTR/MRP), member 1	0.443	3.6E-02
234294_x_at	<i>GATAD2A</i>	GATA zinc finger domain containing 2A	0.443	3.7E-02
213008_at	<i>FANCI</i>	Fanconi anemia, complementation group I	0.443	3.7E-02
218081_at	<i>C20orf27</i>	chromosome 20 open reading frame 27	0.443	3.7E-02
204068_at	<i>STK3</i>	serine/threonine kinase 3	0.443	3.7E-02
216606_x_at	<i>LYPLA2</i>	lysophospholipase II	0.443	3.7E-02
235609_at	<i>BRIP1</i>	BRCA1 interacting protein C-terminal helicase 1	0.443	3.7E-02
203234_at	<i>UPP1</i>	uridine phosphorylase 1	0.442	3.7E-02
224749_at	<i>ITFG3</i>	integrin alpha FG-GAP repeat containing 3	0.442	3.7E-02
234974_at	<i>GALM</i>	galactose mutarotase (aldose 1-epimerase)	0.442	3.7E-02
34868_at	<i>SMG5</i>	smg-5 homolog, nonsense mediated mRNA decay factor (C. elegans)	0.442	3.7E-02
218039_at	<i>NUSAP1</i>	nucleolar and spindle associated protein 1	0.442	3.7E-02
33322_i_at	<i>SFN</i>	stratifin	0.442	3.7E-02
223247_at	<i>MED10</i>	mediator complex subunit 10	0.442	3.7E-02
202737_s_at	<i>LSM4</i>	LSM4 homolog, U6 small nuclear RNA associated (S. cerevisiae)	0.442	3.7E-02
212992_at	<i>AHNAK2</i>	AHNAK nucleoprotein 2	0.442	3.7E-02
212363_x_at	<i>ACTG1</i>	actin, gamma 1	0.442	3.7E-02
217104_at	<i>ST20</i>	suppressor of tumorigenicity 20	0.442	3.7E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
218663_at	<i>NCAPG</i>	non-SMC condensin I complex, subunit G	0.441	3.8E-02
203425_s_at	<i>IGFBP5</i>	insulin-like growth factor binding protein 5	0.441	3.8E-02
204865_at	<i>CA3</i>	carbonic anhydrase III, muscle specific	0.441	3.8E-02
206011_at	<i>CASP1</i>	caspase 1, apoptosis-related cysteine peptidase	0.441	3.8E-02
204357_s_at	<i>LIMK1</i>	LIM domain kinase 1	0.440	3.8E-02
219004_s_at	<i>MIS18A</i>	MIS18 kinetochore protein homolog A (S. pombe)	0.440	3.8E-02
229435_at	<i>GLIS3</i>	GLIS family zinc finger 3	0.440	3.8E-02
215947_s_at	<i>FAM136A</i>	family with sequence similarity 136, member A	0.439	3.9E-02
222231_s_at	<i>LRRC59</i>	leucine rich repeat containing 59	0.439	3.9E-02
209561_at	<i>THBS3</i>	thrombospondin 3	0.439	3.9E-02
222958_s_at	<i>DEPDC1</i>	DEP domain containing 1	0.439	3.9E-02
227792_at	<i>ITPRIPL2</i>	inositol 1,4,5-trisphosphate receptor interacting protein-like 2	0.439	3.9E-02
226935_s_at	<i>CLPTM1L</i>	CLPTM1-like	0.439	3.9E-02
204471_at	<i>GAP43</i>	growth associated protein 43	0.438	3.9E-02
219885_at	<i>SLFN12</i>	schlafen family member 12	0.438	3.9E-02
218883_s_at	<i>MLF1IP</i>	MLF1 interacting protein	0.438	3.9E-02
206316_s_at	<i>KNTC1</i>	kinetochore associated 1	0.438	4.0E-02
202998_s_at	<i>LOXL2</i>	lysyl oxidase-like 2	0.438	4.0E-02
223394_at	<i>SERTAD1</i>	SERTA domain containing 1	0.438	4.0E-02
215446_s_at	<i>LOX</i>	lysyl oxidase	0.438	4.0E-02
200961_at	<i>SEPHS2</i>	selenophosphate synthetase 2	0.438	4.0E-02
1555724_s_at	<i>TAGLN</i>	transgelin	0.437	4.0E-02
201251_at	<i>PKM</i>	pyruvate kinase, muscle	0.437	4.0E-02
203270_at	<i>DTYMK</i>	deoxythymidylate kinase (thymidylate kinase)	0.437	4.0E-02
209082_s_at	<i>COL18A1</i>	collagen, type XVIII, alpha 1	0.437	4.0E-02
202408_s_at	<i>PRPF31</i>	PRP31 pre-mRNA processing factor 31 homolog (S. cerevisiae)	0.437	4.0E-02
208370_s_at	<i>RCAN1</i>	regulator of calcineurin 1	0.437	4.0E-02
227480_at	<i>SUSD2</i>	sushi domain containing 2	0.437	4.0E-02
218095_s_at	<i>TMEM165</i>	transmembrane protein 165	0.437	4.0E-02
212298_at	<i>NRP1</i>	neuropilin 1	0.436	4.0E-02
203167_at	<i>TIMP2</i>	TIMP metalloproteinase inhibitor 2	0.436	4.0E-02
213861_s_at	<i>METTL21B</i>	methyltransferase like 21B	0.436	4.0E-02
218159_at	<i>DDRGK1</i>	DDRGK domain containing 1	0.436	4.0E-02
219293_s_at	<i>OLA1</i>	Obg-like ATPase 1	0.436	4.0E-02
201663_s_at	<i>SMC4</i>	structural maintenance of chromosomes 4	0.435	4.1E-02
209900_s_at	<i>SLC16A1</i>	solute carrier family 16, member 1 (monocarboxylic acid transporter 1)	0.435	4.1E-02
217933_s_at	<i>LAP3</i>	leucine aminopeptidase 3	0.435	4.1E-02
205211_s_at	<i>RINI</i>	Ras and Rab interactor 1	0.435	4.1E-02
201088_at	<i>KPNA2</i>	karyopherin alpha 2 (RAG cohort 1, importin alpha 1)	0.435	4.1E-02
218009_s_at	<i>PRC1</i>	protein regulator of cytokinesis 1	0.434	4.1E-02
202951_at	<i>STK38</i>	serine/threonine kinase 38	0.434	4.1E-02
205394_at	<i>CHEK1</i>	checkpoint kinase 1	0.434	4.1E-02
228188_at	<i>FOSL2</i>	FOS-like antigen 2	0.434	4.1E-02
211977_at	<i>GPR107</i>	G protein-coupled receptor 107	0.434	4.1E-02
223165_s_at	<i>IP6K2</i>	inositol hexakisphosphate kinase 2	0.434	4.1E-02
228281_at	<i>C11orf82</i>	chromosome 11 open reading frame 82	0.434	4.1E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
231249_at	<i>SZT2</i>	seizure threshold 2 homolog (mouse)	0.434	4.2E-02
201798_s_at	<i>MYOF</i>	myoferlin	0.434	4.2E-02
36936_at	<i>TSTA3</i>	tissue specific transplantation antigen P35B	0.434	4.2E-02
227467_at	<i>RDH10</i>	retinol dehydrogenase 10 (all-trans)	0.434	4.2E-02
228729_at	<i>CCNB1</i>	cyclin B1	0.434	4.2E-02
202912_at	<i>ADM</i>	adrenomedullin	0.433	4.2E-02
227249_at	<i>NDE1</i>	NudE nuclear distribution E homolog 1 (A. nidulans)	0.433	4.2E-02
212063_at	<i>CD44</i>	CD44 molecule (Indian blood group)	0.433	4.2E-02
217855_x_at	<i>SDF4</i>	stromal cell derived factor 4	0.433	4.2E-02
219588_s_at	<i>NCAPG2</i>	non-SMC condensin II complex, subunit G2	0.433	4.2E-02
225969_at	<i>ALKBH6</i>	alkB, alkylation repair homolog 6 (E. coli)	0.433	4.2E-02
221274_s_at	<i>LMAN2L</i>	lectin, mannose-binding 2-like	0.433	4.2E-02
212219_at	<i>PSME4</i>	proteasome (prosome, macropain) activator subunit 4	0.433	4.2E-02
212280_x_at	<i>ATG4B</i>	autophagy related 4B, cysteine peptidase	0.433	4.2E-02
227352_at	<i>SWSAP1</i>	SWIM-type zinc finger 7 associated protein 1	0.432	4.2E-02
200650_s_at	<i>LDHA</i>	lactate dehydrogenase A	0.432	4.3E-02
1555167_s_at	<i>NAMPT</i>	nicotinamide phosphoribosyltransferase	0.432	4.3E-02
208808_s_at	<i>HMGB2</i>	high mobility group box 2	0.432	4.3E-02
227100_at	<i>B3GALTL</i>	beta 1,3-galactosyltransferase-like	0.432	4.3E-02
233734_s_at	<i>OSBPL5</i>	oxysterol binding protein-like 5	0.432	4.3E-02
212533_at	<i>WEE1</i>	WEE1 homolog (S. pombe)	0.431	4.3E-02
216262_s_at	<i>TGIF2</i>	TGFB-induced factor homeobox 2	0.431	4.3E-02
228873_at	<i>COL22A1</i>	collagen, type XXII, alpha 1	0.431	4.3E-02
221521_s_at	<i>GINS2</i>	GINS complex subunit 2 (Psf2 homolog)	0.431	4.3E-02
31837_at	<i>LMF2</i>	lipase maturation factor 2	0.431	4.3E-02
201560_at	<i>CLIC4</i>	chloride intracellular channel 4	0.431	4.3E-02
221794_at	<i>DOCK6</i>	dedicator of cytokinesis 6	0.431	4.3E-02
242041_at	<i>CSPP1</i>	centrosome and spindle pole associated protein 1	0.431	4.3E-02
221605_s_at	<i>PIPOX</i>	pipecolic acid oxidase	0.431	4.3E-02
222067_x_at	<i>HIST1H2BD</i>	histone cluster 1, H2bd	0.431	4.3E-02
203133_at	<i>SEC61B</i>	Sec61 beta subunit	0.431	4.3E-02
225019_at	<i>CAMK2D</i>	calcium/calmodulin-dependent protein kinase II delta	0.431	4.3E-02
203731_s_at	<i>ZKSCAN5</i>	zinc finger with KRAB and SCAN domains 5	0.430	4.3E-02
205918_at	<i>SLC4A3</i>	solute carrier family 4, anion exchanger, member 3	0.430	4.4E-02
204779_s_at	<i>HOXB7</i>	homeobox B7	0.430	4.4E-02
213379_at	<i>COQ2</i>	coenzyme Q2 homolog, prenyltransferase (yeast)	0.430	4.4E-02
201252_at	<i>PSMC4</i>	proteasome (prosome, macropain) 26S subunit, ATPase, 4	0.430	4.4E-02
1560916_a_at	<i>DPY19L1</i>	dpy-19-like 1 (C. elegans)	0.429	4.4E-02
202270_at	<i>GBP1</i>	guanylate binding protein 1, interferon-inducible	0.429	4.4E-02
212014_x_at	<i>CD44</i>	CD44 molecule (Indian blood group)	0.429	4.4E-02
202855_s_at	<i>SLC16A3</i>	solute carrier family 16, member 3 (monocarboxylic acid transporter 4)	0.429	4.4E-02
209642_at	<i>BUB1</i>	budding uninhibited by benzimidazoles 1 homolog (yeast)	0.429	4.4E-02
207467_x_at	<i>CAST</i>	calpastatin	0.429	4.4E-02
230836_at	<i>ST8SIA4</i>	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4	0.429	4.4E-02
203578_s_at	<i>SLC7A6</i>	solute carrier family 7 (amino acid transporter light chain,	0.429	4.5E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
217854_s_at	<i>POLR2E</i>	y+L system), member 6 polymerase (RNA) II (DNA directed) polypeptide E, 25kDa	0.429	4.5E-02
201673_s_at	<i>GYS1</i>	glycogen synthase 1 (muscle)	0.428	4.5E-02
225801_at	<i>FBXO32</i>	F-box protein 32	0.428	4.5E-02
202729_s_at	<i>LTBP1</i>	latent transforming growth factor beta binding protein 1	0.428	4.5E-02
243403_x_at	<i>CPM</i>	carboxypeptidase M	0.428	4.5E-02
200829_x_at	<i>ZNF207</i>	zinc finger protein 207	0.428	4.5E-02
219257_s_at	<i>SPHK1</i>	sphingosine kinase 1	0.428	4.5E-02
231823_s_at	<i>SH3PXD2B</i>	SH3 and PX domains 2B	0.428	4.5E-02
201726_at	<i>ELAVL1</i>	ELAV (embryonic lethal, abnormal vision, Drosophila)- like 1 (Hu antigen R)	0.428	4.5E-02
204162_at	<i>NDC80</i>	NDC80 kinetochore complex component homolog (S. cerevisiae)	0.428	4.5E-02
219933_at	<i>GLRX2</i>	glutaredoxin 2	0.428	4.5E-02
223553_s_at	<i>DOK3</i>	docking protein 3	0.427	4.5E-02
218018_at	<i>PDXK</i>	pyridoxal (pyridoxine, vitamin B6) kinase	0.427	4.5E-02
207610_s_at	<i>EMR2</i>	egf-like module containing, mucin-like, hormone receptor-like 2	0.427	4.5E-02
211864_s_at	<i>MYOF</i>	myoferlin	0.427	4.6E-02
219183_s_at	<i>CYTH4</i>	cytohesin 4	0.427	4.6E-02
203022_at	<i>RNASEH2A</i>	ribonuclease H2, subunit A	0.426	4.6E-02
223381_at	<i>NUF2</i>	NUF2, NDC80 kinetochore complex component, homolog (S. cerevisiae)	0.426	4.6E-02
201645_at	<i>TNC</i>	tenascin C	0.426	4.6E-02
214452_at	<i>BCAT1</i>	branched chain amino-acid transaminase 1, cytosolic	0.426	4.6E-02
221827_at	<i>RBCK1</i>	RanBP-type and C3HC4-type zinc finger containing 1	0.426	4.6E-02
204262_s_at	<i>PSEN2</i>	presenilin 2 (Alzheimer disease 4)	0.425	4.7E-02
208091_s_at	<i>VOPPI</i>	vesicular, overexpressed in cancer, prosurvival protein 1	0.425	4.7E-02
64440_at	<i>IL17RC</i>	interleukin 17 receptor C	0.425	4.7E-02
200611_s_at	<i>WDR1</i>	WD repeat domain 1	0.425	4.7E-02
202133_at	<i>WWTR1</i>	WW domain containing transcription regulator 1	0.425	4.7E-02
211963_s_at	<i>ARPC5</i>	actin related protein 2/3 complex, subunit 5, 16kDa	0.425	4.7E-02
201765_s_at	<i>HEXA</i>	hexosaminidase A (alpha polypeptide)	0.425	4.7E-02
208691_at	<i>TFRC</i>	transferrin receptor (p90, CD71)	0.425	4.7E-02
200678_x_at	<i>GRN</i>	granulin	0.424	4.7E-02
221258_s_at	<i>KIF18A</i>	kinesin family member 18A	0.424	4.7E-02
227515_at	<i>STAMBP</i>	STAM binding protein	0.424	4.7E-02
201937_s_at	<i>DNPEP</i>	aspartyl aminopeptidase	0.424	4.7E-02
226063_at	<i>VAV2</i>	vav 2 guanine nucleotide exchange factor	0.424	4.7E-02
212621_at	<i>TMEM194A</i>	transmembrane protein 194A	0.423	4.8E-02
214426_x_at	<i>CHAF1A</i>	chromatin assembly factor 1, subunit A (p150)	0.423	4.8E-02
243296_at	<i>NAMPT</i>	Nicotinamide phosphoribosyltransferase	0.423	4.8E-02
223396_at	<i>TMEM60</i>	transmembrane protein 60	0.423	4.8E-02
217751_at	<i>GSTK1</i>	glutathione S-transferase kappa 1	0.423	4.8E-02
220189_s_at	<i>MGAT4B</i>	mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N- acetylglucosaminyltransferase, isozyme B	0.423	4.8E-02
210423_s_at	<i>SLC11A1</i>	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1	0.423	4.8E-02
221653_x_at	<i>APOL2</i>	apolipoprotein L, 2	0.423	4.8E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
226385_s_at	<i>MALSU1</i>	mitochondrial assembly of ribosomal large subunit 1	0.423	4.8E-02
222684_s_at	<i>NOL10</i>	nucleolar protein 10	0.423	4.8E-02
234005_x_at	<i>STK36</i>	serine/threonine kinase 36	0.423	4.8E-02
1554314_at	<i>C6orf141</i>	chromosome 6 open reading frame 141	0.423	4.8E-02
204402_at	<i>RHBDD3</i>	rhomboid domain containing 3	0.423	4.8E-02
200891_s_at	<i>SSR1</i>	signal sequence receptor, alpha	0.423	4.8E-02
218131_s_at	<i>GATAD2A</i>	GATA zinc finger domain containing 2A	0.422	4.8E-02
222690_s_at	<i>TMEM39A</i>	transmembrane protein 39A	0.422	4.8E-02
225614_at	<i>SAAL1</i>	serum amyloid A-like 1	0.422	4.8E-02
228597_at	<i>MIS18A</i>	MIS18 kinetochore protein homolog A (S. pombe)	0.422	4.8E-02
205298_s_at	<i>BTN2A2</i>	butyrophilin, subfamily 2, member A2	0.422	4.8E-02
210052_s_at	<i>TPX2</i>	TPX2, microtubule-associated, homolog (Xenopus laevis)	0.422	4.8E-02
225524_at	<i>ANTXR2</i>	anthrax toxin receptor 2	0.422	4.9E-02
205542_at	<i>STEAP1</i>	six transmembrane epithelial antigen of the prostate 1	0.422	4.9E-02
226452_at	<i>PDK1</i>	pyruvate dehydrogenase kinase, isozyme 1	0.421	4.9E-02
200931_s_at	<i>VCL</i>	vinculin	0.421	4.9E-02
217788_s_at	<i>GALNT2</i>	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 2 (GalNAc-T2)	0.421	4.9E-02
202628_s_at	<i>SERPINE1</i>	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	0.421	4.9E-02
211747_s_at	<i>LSM5</i>	LSM5 homolog, U6 small nuclear RNA associated (S. cerevisiae)	0.421	4.9E-02
213491_x_at	<i>RPN2</i>	ribophorin II	0.421	4.9E-02
224387_at	<i>COMM5</i>	COMM domain containing 5	0.421	4.9E-02
225643_at	<i>MAPK11P1L</i>	mitogen-activated protein kinase 1 interacting protein 1-like	0.421	4.9E-02
209451_at	<i>TANK</i>	TRAF family member-associated NFKB activator	0.420	4.9E-02
213007_at	<i>FANCI</i>	Fanconi anemia, complementation group I	0.420	5.0E-02
224428_s_at	<i>CDC47</i>	cell division cycle associated 7	0.420	5.0E-02
201013_s_at	<i>PAICS</i>	phosphoribosylaminoimidazole carboxylase, phosphoribosylaminoimidazole succinocarboxamide synthetase	0.420	5.0E-02
242451_x_at	<i>RPS19</i>	ribosomal protein S19	0.420	5.0E-02
209035_at	<i>MDK</i>	midkine (neurite growth-promoting factor 2)	0.420	5.0E-02
209502_s_at	<i>BAIAP2</i>	BAI1-associated protein 2	0.420	5.0E-02
210959_s_at	<i>SRD5A1</i>	steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1)	0.420	5.0E-02
213399_x_at	<i>RPN2</i>	ribophorin II	0.420	5.0E-02
211959_at	<i>IGFBP5</i>	insulin-like growth factor binding protein 5	0.419	5.0E-02
221732_at	<i>CANT1</i>	calcium activated nucleotidase 1	0.419	5.0E-02
202218_s_at	<i>FADS2</i>	fatty acid desaturase 2	-0.419	5.0E-02
222157_s_at	<i>WDR48</i>	WD repeat domain 48	-0.419	5.0E-02
226674_at	<i>SHISA4</i>	shisa homolog 4 (Xenopus laevis)	-0.419	5.0E-02
228333_at	<i>ZEB2</i>	zinc finger E-box binding homeobox 2	-0.419	5.0E-02
201813_s_at	<i>TBC1D5</i>	TBC1 domain family, member 5	-0.420	5.0E-02
37566_at	<i>KIAA1045</i>	KIAA1045	-0.420	5.0E-02
206401_s_at	<i>MAPT</i>	microtubule-associated protein tau	-0.420	5.0E-02
212534_at	<i>ZNF24</i>	zinc finger protein 24	-0.420	5.0E-02
222391_at	<i>TMEM30A</i>	transmembrane protein 30A	-0.420	5.0E-02



Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
212416_at	<i>SCAMP1</i>	secretory carrier membrane protein 1	-0.420	5.0E-02
217722_s_at	<i>NGRN</i>	neugrin, neurite outgrowth associated	-0.420	5.0E-02
217970_s_at	<i>CNOT6</i>	CCR4-NOT transcription complex, subunit 6	-0.420	5.0E-02
213313_at	<i>RABGAP1</i>	RAB GTPase activating protein 1	-0.420	5.0E-02
217830_s_at	<i>NSFL1C</i>	NSFL1 (p97) cofactor (p47)	-0.420	5.0E-02
202873_at	<i>ATP6VIC1</i>	ATPase, H <sup>+</sup> transporting, lysosomal 42kDa, V1 subunit C1	-0.420	5.0E-02
219009_at	<i>C14orf93</i>	chromosome 14 open reading frame 93	-0.420	4.9E-02
222586_s_at	<i>OSBPL11</i>	oxysterol binding protein-like 11	-0.420	4.9E-02
233070_at	<i>ZNF197</i>	zinc finger protein 197	-0.420	4.9E-02
215606_s_at	<i>ERC1</i>	ELKS/RAB6-interacting/CAST family member 1	-0.420	4.9E-02
221622_s_at	<i>TMEM126B</i>	transmembrane protein 126B	-0.420	4.9E-02
222717_at	<i>SDPR</i>	serum deprivation response	-0.420	4.9E-02
235905_at	<i>ZNF704</i>	zinc finger protein 704	-0.420	4.9E-02
220755_s_at	<i>C6orf48</i>	chromosome 6 open reading frame 48	-0.421	4.9E-02
243904_at	<i>STXBP5</i>	syntaxin binding protein 5 (tomosyn)	-0.421	4.9E-02
1556021_at	<i>GPR180</i>	G protein-coupled receptor 180	-0.421	4.9E-02
212286_at	<i>ANKRD12</i>	ankyrin repeat domain 12	-0.421	4.9E-02
215115_x_at	<i>NTRK3</i>	neurotrophic tyrosine kinase, receptor, type 3	-0.421	4.9E-02
235475_at	<i>SERP1</i>	stress-associated endoplasmic reticulum protein 1	-0.421	4.9E-02
203081_at	<i>CTNNBIP1</i>	catenin, beta interacting protein 1	-0.421	4.9E-02
215307_at	<i>ZNF529</i>	zinc finger protein 529	-0.421	4.9E-02
217833_at	<i>SYNCRIP</i>	synaptotagmin binding, cytoplasmic RNA interacting protein	-0.421	4.9E-02
223099_s_at	<i>LONP2</i>	lon peptidase 2, peroxisomal	-0.421	4.9E-02
1558010_s_at	<i>SLC1A2</i>	solute carrier family 1 (glial high affinity glutamate transporter), member 2	-0.421	4.9E-02
238029_s_at	<i>SLC16A14</i>	solute carrier family 16, member 14 (monocarboxylic acid transporter 14)	-0.421	4.9E-02
209159_s_at	<i>NDRG4</i>	NDRG family member 4	-0.421	4.9E-02
212602_at	<i>WDFY3</i>	WD repeat and FYVE domain containing 3	-0.421	4.9E-02
228225_at	<i>PEX2</i>	peroxisomal biogenesis factor 2	-0.421	4.9E-02
225163_at	<i>FRMD4A</i>	FERM domain containing 4A	-0.421	4.9E-02
202874_s_at	<i>ATP6VIC1</i>	ATPase, H <sup>+</sup> transporting, lysosomal 42kDa, V1 subunit C1	-0.421	4.9E-02
217100_s_at	<i>UBXN7</i>	UBX domain protein 7	-0.421	4.9E-02
218733_at	<i>MSL2</i>	male-specific lethal 2 homolog (Drosophila)	-0.421	4.9E-02
235065_at	<i>FAM59A</i>	family with sequence similarity 59, member A	-0.421	4.9E-02
207135_at	<i>HTR2A</i>	5-hydroxytryptamine (serotonin) receptor 2A, G protein-coupled	-0.421	4.9E-02
243007_at	<i>TTC5</i>	tetratricopeptide repeat domain 5	-0.421	4.9E-02
238477_at	<i>KIF1C</i>	kinesin family member 1C	-0.422	4.9E-02
223337_at	<i>CWC27</i>	CWC27 spliceosome-associated protein homolog (S. cerevisiae)	-0.422	4.8E-02
210251_s_at	<i>RUFY3</i>	RUN and FYVE domain containing 3	-0.422	4.8E-02
205103_at	<i>C1orf61</i>	chromosome 1 open reading frame 61	-0.422	4.8E-02
242303_at	<i>NRG2</i>	neuregulin 2	-0.422	4.8E-02
212820_at	<i>DMXL2</i>	Dmx-like 2	-0.422	4.8E-02
225855_at	<i>EPB41L5</i>	erythrocyte membrane protein band 4.1 like 5	-0.422	4.8E-02
242006_at	<i>LCA5</i>	Leber congenital amaurosis 5	-0.422	4.8E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted <i>P</i> -value
203485_at	<i>RTN1</i>	reticulon 1	-0.423	4.8E-02
207100_s_at	<i>VAMP1</i>	vesicle-associated membrane protein 1 (synaptobrevin 1)	-0.423	4.8E-02
210908_s_at	<i>PFDN5</i>	prefoldin subunit 5	-0.423	4.8E-02
211819_s_at	<i>SORBS1</i>	sorbin and SH3 domain containing 1	-0.423	4.8E-02
221908_at	<i>RNFT2</i>	ring finger protein, transmembrane 2	-0.423	4.8E-02
213825_at	<i>OLIG2</i>	oligodendrocyte lineage transcription factor 2	-0.423	4.8E-02
225820_at	<i>PHF17</i>	PHD finger protein 17	-0.423	4.8E-02
229038_at	<i>CWF19L1</i>	CWF19-like 1, cell cycle control (S. pombe)	-0.423	4.8E-02
243417_at	<i>ZADH2</i>	zinc binding alcohol dehydrogenase domain containing 2	-0.423	4.8E-02
201646_at	<i>SCARB2</i>	scavenger receptor class B, member 2	-0.423	4.8E-02
205903_s_at	<i>KCNN3</i>	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 3	-0.423	4.8E-02
221656_s_at	<i>ARHGEF10L</i>	Rho guanine nucleotide exchange factor (GEF) 10-like	-0.423	4.8E-02
231650_s_at	<i>SEZ6L</i>	Seizure related 6 homolog (mouse)-like	-0.423	4.8E-02
1558009_at	<i>SLC1A2</i>	solute carrier family 1 (glial high affinity glutamate transporter), member 2	-0.423	4.8E-02
203537_at	<i>PRPSAP2</i>	phosphoribosyl pyrophosphate synthetase-associated protein 2	-0.423	4.8E-02
1558675_s_at	<i>NEMF</i>	nuclear export mediator factor	-0.423	4.8E-02
211033_s_at	<i>PEX7</i>	peroxisomal biogenesis factor 7	-0.423	4.8E-02
1555154_a_at	<i>QKI</i>	QKI, KH domain containing, RNA binding	-0.424	4.8E-02
219732_at	<i>LPPR1</i>	lipid phosphate phosphatase-related protein type 1	-0.424	4.8E-02
235348_at	<i>ABHD13</i>	abhydrolase domain containing 13	-0.424	4.8E-02
224616_at	<i>DYNC1LI2</i>	dynein, cytoplasmic 1, light intermediate chain 2	-0.424	4.8E-02
235021_at	<i>KIAA2026</i>	KIAA2026	-0.424	4.8E-02
239442_at	<i>CEP68</i>	centrosomal protein 68kDa	-0.424	4.8E-02
218706_s_at	<i>GRAMD3</i>	GRAM domain containing 3	-0.424	4.7E-02
228822_s_at	<i>USP16</i>	ubiquitin specific peptidase 16	-0.424	4.7E-02
208925_at	<i>CLDND1</i>	claudin domain containing 1	-0.424	4.7E-02
214552_s_at	<i>RABEP1</i>	rabaptin, RAB GTPase binding effector protein 1	-0.424	4.7E-02
225856_at	<i>CLOCK</i>	clock homolog (mouse)	-0.424	4.7E-02
201226_at	<i>NDUFB8</i>	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 8, 19kDa	-0.424	4.7E-02
204832_s_at	<i>BMPRIA</i>	bone morphogenetic protein receptor, type IA	-0.424	4.7E-02
227435_at	<i>KIAA2018</i>	KIAA2018	-0.424	4.7E-02
227859_at	<i>DNAJC27</i>	DnaJ (Hsp40) homolog, subfamily C, member 27	-0.424	4.7E-02
203087_s_at	<i>KIF2A</i>	kinesin heavy chain member 2A	-0.424	4.7E-02
209684_at	<i>RIN2</i>	Ras and Rab interactor 2	-0.424	4.7E-02
209987_s_at	<i>ASCL1</i>	achaete-scute complex homolog 1 (Drosophila)	-0.424	4.7E-02
213848_at	<i>DUSP7</i>	dual specificity phosphatase 7	-0.424	4.7E-02
224769_at	<i>TAOK1</i>	TAO kinase 1	-0.424	4.7E-02
238441_at	<i>PRKAA2</i>	protein kinase, AMP-activated, alpha 2 catalytic subunit	-0.425	4.7E-02
215233_at	<i>JMJD6</i>	jumonji domain containing 6	-0.425	4.7E-02
221490_at	<i>UBAPI</i>	ubiquitin associated protein 1	-0.425	4.7E-02
212230_at	<i>PPAP2B</i>	phosphatidic acid phosphatase type 2B	-0.425	4.7E-02
223446_s_at	<i>DTNBP1</i>	dystrobrevin binding protein 1	-0.425	4.7E-02
227808_at	<i>DNAJC15</i>	DnaJ (Hsp40) homolog, subfamily C, member 15	-0.425	4.7E-02
208920_at	<i>SRI</i>	sorcin	-0.425	4.7E-02
225379_at	<i>MAPT</i>	microtubule-associated protein tau	-0.425	4.7E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
231103_at	<i>KCNN3</i>	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 3	-0.425	4.7E-02
202045_s_at	<i>ARHGAP35</i>	Rho GTPase activating protein 35	-0.426	4.6E-02
218946_at	<i>NFU1</i>	NFU1 iron-sulfur cluster scaffold homolog ( <i>S. cerevisiae</i> )	-0.426	4.6E-02
208870_x_at	<i>ATP5C1</i>	ATP synthase, H <sup>+</sup> transporting, mitochondrial F1 complex, gamma polypeptide 1	-0.426	4.6E-02
239897_at	<i>BCLAF1</i>	BCL2-associated transcription factor 1	-0.426	4.6E-02
206085_s_at	<i>CTH</i>	cystathionase (cystathionine gamma-lyase)	-0.426	4.6E-02
226230_at	<i>SMEK2</i>	SMEK homolog 2, suppressor of mek1 ( <i>Dictyostelium</i> )	-0.426	4.6E-02
203972_s_at	<i>PEX3</i>	peroxisomal biogenesis factor 3	-0.426	4.6E-02
212894_at	<i>SUPV3L1</i>	suppressor of var1, 3-like 1 ( <i>S. cerevisiae</i> )	-0.426	4.6E-02
224931_at	<i>SLC41A3</i>	solute carrier family 41, member 3	-0.426	4.6E-02
226277_at	<i>COL4A3BP</i>	collagen, type IV, alpha 3 (Goodpasture antigen) binding protein	-0.426	4.6E-02
55692_at	<i>ELMO2</i>	engulfment and cell motility 2	-0.426	4.6E-02
201158_at	<i>NMT1</i>	N-myristoyltransferase 1	-0.426	4.6E-02
225475_at	<i>MIER1</i>	mesoderm induction early response 1 homolog ( <i>Xenopus laevis</i> )	-0.426	4.6E-02
210202_s_at	<i>BINI</i>	bridging integrator 1	-0.427	4.6E-02
209610_s_at	<i>SLC1A4</i>	solute carrier family 1 (glutamate/neutral amino acid transporter), member 4	-0.427	4.6E-02
210600_s_at	<i>GRK4</i>	G protein-coupled receptor kinase 4	-0.427	4.6E-02
223213_s_at	<i>ZHX1</i>	zinc fingers and homeoboxes 1	-0.427	4.6E-02
212669_at	<i>CAMK2G</i>	calcium/calmodulin-dependent protein kinase II gamma	-0.427	4.6E-02
203298_s_at	<i>JARID2</i>	jumonji, AT rich interactive domain 2	-0.427	4.6E-02
210222_s_at	<i>RTN1</i>	reticulum 1	-0.427	4.6E-02
242443_at	<i>EML5</i>	Echinoderm microtubule associated protein like 5	-0.427	4.6E-02
203377_s_at	<i>CDC40</i>	cell division cycle 40 homolog ( <i>S. cerevisiae</i> )	-0.427	4.5E-02
228817_at	<i>ALG9</i>	asparagine-linked glycosylation 9, alpha-1,2-mannosyltransferase homolog ( <i>S. cerevisiae</i> )	-0.427	4.5E-02
1568777_at	<i>EML5</i>	echinoderm microtubule associated protein like 5	-0.427	4.5E-02
203266_s_at	<i>MAP2K4</i>	mitogen-activated protein kinase kinase 4	-0.427	4.5E-02
241966_at	<i>MYO5A</i>	myosin VA (heavy chain 12, myosin)	-0.427	4.5E-02
223230_at	<i>PRPF38A</i>	PRP38 pre-mRNA processing factor 38 (yeast) domain containing A	-0.427	4.5E-02
230183_at	<i>EXT1</i>	exostosin 1	-0.427	4.5E-02
207785_s_at	<i>RBPJ</i>	recombination signal binding protein for immunoglobulin kappa J region	-0.427	4.5E-02
200694_s_at	<i>DDX24</i>	DEAD (Asp-Glu-Ala-Asp) box polypeptide 24	-0.428	4.5E-02
208398_s_at	<i>TBPL1</i>	TBP-like 1	-0.428	4.5E-02
209683_at	<i>FAM49A</i>	family with sequence similarity 49, member A	-0.428	4.5E-02
212672_at	<i>ATM</i>	ataxia telangiectasia mutated	-0.428	4.5E-02
57588_at	<i>SLC24A3</i>	solute carrier family 24 (sodium/potassium/calcium exchanger), member 3	-0.428	4.5E-02
209075_s_at	<i>ISCU</i>	iron-sulfur cluster scaffold homolog ( <i>E. coli</i> )	-0.428	4.5E-02
209724_s_at	<i>ZFP161</i>	zinc finger protein 161 homolog (mouse)	-0.428	4.5E-02
225041_at	<i>MPHOSPH8</i>	M-phase phosphoprotein 8	-0.428	4.5E-02
233555_s_at	<i>SULF2</i>	sulfatase 2	-0.428	4.5E-02
232166_at	<i>KIAA1377</i>	KIAA1377	-0.428	4.5E-02
217033_x_at	<i>NTRK3</i>	neurotrophic tyrosine kinase, receptor, type 3	-0.429	4.5E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
228214_at	<i>SOX6</i>	SRY (sex determining region Y)-box 6	-0.429	4.5E-02
208070_s_at	<i>REV3L</i>	REV3-like, polymerase (DNA directed), zeta, catalytic subunit	-0.429	4.5E-02
227111_at	<i>ZBTB34</i>	zinc finger and BTB domain containing 34	-0.429	4.5E-02
1566257_at	<i>GPR180</i>	G protein-coupled receptor 180	-0.429	4.4E-02
220596_at	<i>GPATCH4</i>	G patch domain containing 4	-0.429	4.4E-02
201986_at	<i>MED13</i>	mediator complex subunit 13	-0.429	4.4E-02
210738_s_at	<i>SLC4A4</i>	solute carrier family 4, sodium bicarbonate cotransporter, member 4	-0.429	4.4E-02
222447_at	<i>METTL9</i>	methyltransferase like 9	-0.429	4.4E-02
209798_at	<i>NPAT</i>	nuclear protein, ataxia-telangiectasia locus	-0.429	4.4E-02
204716_at	<i>CCDC6</i>	coiled-coil domain containing 6	-0.429	4.4E-02
236126_at	<i>ACVR2B</i>	activin A receptor, type IIB	-0.429	4.4E-02
240236_at	<i>STXBP5L</i>	syntaxin binding protein 5-like	-0.429	4.4E-02
221104_s_at	<i>NIPSNAP3B</i>	nipsnap homolog 3B ( <i>C. elegans</i> )	-0.430	4.4E-02
221311_x_at	<i>LYRM2</i>	LYR motif containing 2	-0.430	4.4E-02
224728_at	<i>ATPAF1</i>	ATP synthase mitochondrial F1 complex assembly factor 1	-0.430	4.4E-02
227064_at	<i>ANKRD40</i>	ankyrin repeat domain 40	-0.430	4.4E-02
204226_at	<i>STAU2</i>	staufer, RNA binding protein, homolog 2 ( <i>Drosophila</i> )	-0.430	4.4E-02
1552752_a_at	<i>CADM2</i>	cell adhesion molecule 2	-0.430	4.4E-02
205050_s_at	<i>MAPK8IP2</i>	mitogen-activated protein kinase 8 interacting protein 2	-0.430	4.4E-02
240106_at	<i>GNPTAB</i>	N-acetylglucosamine-1-phosphate transferase, alpha and beta subunits	-0.430	4.4E-02
219093_at	<i>PIDI</i>	phosphotyrosine interaction domain containing 1	-0.430	4.4E-02
204303_s_at	<i>CTIF</i>	CBP80/20-dependent translation initiation factor	-0.430	4.3E-02
205846_at	<i>PTPRB</i>	protein tyrosine phosphatase, receptor type, B	-0.430	4.3E-02
213993_at	<i>SPON1</i>	spondin 1, extracellular matrix protein	-0.431	4.3E-02
204824_at	<i>ENDOG</i>	endonuclease G	-0.431	4.3E-02
210053_at	<i>TAF5</i>	TAF5 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 100kDa	-0.431	4.3E-02
201490_s_at	<i>PPIF</i>	peptidylprolyl isomerase F	-0.431	4.3E-02
235331_x_at	<i>PCGF5</i>	polycomb group ring finger 5	-0.431	4.3E-02
217821_s_at	<i>WBP11</i>	WW domain binding protein 11	-0.431	4.3E-02
218304_s_at	<i>OSBPL11</i>	oxysterol binding protein-like 11	-0.431	4.3E-02
218428_s_at	<i>REV1</i>	REV1, polymerase (DNA directed)	-0.431	4.3E-02
212607_at	<i>AKT3</i>	v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)	-0.431	4.3E-02
230869_at	<i>FAM155A</i>	family with sequence similarity 155, member A	-0.431	4.3E-02
1558075_at	<i>LOC399491</i>	GPS, PLAT and transmembrane domain-containing protein	-0.431	4.3E-02
226095_s_at	<i>ATXNIL</i>	ataxin 1-like	-0.431	4.3E-02
242088_at	<i>KLHL24</i>	kelch-like 24 ( <i>Drosophila</i> )	-0.431	4.3E-02
226918_at	<i>JPH4</i>	junctophilin 4	-0.432	4.3E-02
243735_at	<i>ELP2</i>	elongation protein 2 homolog ( <i>S. cerevisiae</i> )	-0.432	4.3E-02
225698_at	<i>EPB41L4A-AS1</i>	EPB41L4A antisense RNA 1 (non-protein coding)	-0.432	4.3E-02
226842_at	<i>FBXL20</i>	F-box and leucine-rich repeat protein 20	-0.432	4.3E-02
223227_at	<i>BBS2</i>	Bardet-Biedl syndrome 2	-0.432	4.3E-02
228291_s_at	<i>PLK1S1</i>	polo-like kinase 1 substrate 1	-0.432	4.3E-02
201214_s_at	<i>PPP1R7</i>	protein phosphatase 1, regulatory subunit 7	-0.432	4.3E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
209005_at	<i>FBXL5</i>	F-box and leucine-rich repeat protein 5	-0.432	4.3E-02
235018_at	<i>CSRNP3</i>	cysteine-serine-rich nuclear protein 3	-0.432	4.3E-02
235626_at	<i>CAMK1D</i>	calcium/calmodulin-dependent protein kinase ID	-0.432	4.3E-02
209142_s_at	<i>UBE2G1</i>	ubiquitin-conjugating enzyme E2G 1	-0.432	4.2E-02
219421_at	<i>TTC33</i>	tetratricopeptide repeat domain 33	-0.432	4.2E-02
232382_s_at	<i>PCMTD1</i>	protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 1	-0.432	4.2E-02
225175_s_at	<i>SLC44A2</i>	solute carrier family 44, member 2	-0.432	4.2E-02
226198_at	<i>TOMIL2</i>	target of myb1-like 2 (chicken)	-0.432	4.2E-02
216037_x_at	<i>TCF7L2</i>	transcription factor 7-like 2 (T-cell specific, HMG-box)	-0.432	4.2E-02
227340_s_at	<i>RGMB</i>	RGM domain family, member B	-0.433	4.2E-02
215707_s_at	<i>PRNP</i>	prion protein	-0.433	4.2E-02
1554424_at	<i>FIP1L1</i>	FIP1 like 1 ( <i>S. cerevisiae</i> )	-0.433	4.2E-02
229428_at	<i>TIMM23</i>	translocase of inner mitochondrial membrane 23 homolog (yeast)	-0.433	4.2E-02
212835_at	<i>FAM175B</i>	family with sequence similarity 175, member B	-0.433	4.2E-02
225603_s_at	<i>TRIQQ</i>	triple QxxK/R motif containing	-0.434	4.2E-02
1554486_a_at	<i>GFOD1</i>	glucose-fructose oxidoreductase domain containing 1	-0.434	4.2E-02
202429_s_at	<i>PPP3CA</i>	protein phosphatase 3, catalytic subunit, alpha isozyme	-0.434	4.2E-02
203463_s_at	<i>EPN2</i>	epsin 2	-0.434	4.2E-02
214118_x_at	<i>PCMI</i>	pericentriolar material 1	-0.434	4.2E-02
230288_at	<i>FGF14</i>	fibroblast growth factor 14	-0.434	4.1E-02
213480_at	<i>VAMP4</i>	vesicle-associated membrane protein 4	-0.434	4.1E-02
218491_s_at	<i>THYN1</i>	thymocyte nuclear protein 1	-0.434	4.1E-02
227657_at	<i>RNF150</i>	ring finger protein 150	-0.434	4.1E-02
231959_at	<i>LIN52</i>	lin-52 homolog ( <i>C. elegans</i> )	-0.434	4.1E-02
218135_at	<i>ERGIC2</i>	ERGIC and golgi 2	-0.435	4.1E-02
225678_at	<i>POLR3H</i>	polymerase (RNA) III (DNA directed) polypeptide H (22.9kD)	-0.435	4.1E-02
227422_at	<i>STRN</i>	striatin, calmodulin binding protein	-0.435	4.1E-02
232244_at	<i>KIAA1161</i>	KIAA1161	-0.435	4.1E-02
201992_s_at	<i>KIF5B</i>	kinesin family member 5B	-0.435	4.1E-02
231810_at	<i>BRI3BP</i>	BRI3 binding protein	-0.435	4.1E-02
231969_at	<i>STOX2</i>	storkhead box 2	-0.435	4.1E-02
203635_at	<i>DSCR3</i>	Down syndrome critical region gene 3	-0.435	4.1E-02
235918_x_at	<i>CEP97</i>	centrosomal protein 97kDa	-0.435	4.1E-02
241372_at	<i>ZC3H6</i>	zinc finger CCCH-type containing 6	-0.435	4.1E-02
223595_at	<i>TMEM133</i>	transmembrane protein 133	-0.435	4.1E-02
226046_at	<i>MAPK8</i>	mitogen-activated protein kinase 8	-0.435	4.1E-02
209558_s_at	<i>HIP1R</i>	huntingtin interacting protein 1 related	-0.435	4.1E-02
215201_at	<i>REPS1</i>	RALBP1 associated Eps domain containing 1	-0.435	4.1E-02
230078_at	<i>RAPGEF6</i>	Rap guanine nucleotide exchange factor (GEF) 6	-0.435	4.1E-02
243507_s_at	<i>C20orf196</i>	chromosome 20 open reading frame 196	-0.435	4.1E-02
206992_s_at	<i>ATP5S</i>	ATP synthase, H <sup>+</sup> transporting, mitochondrial Fo complex, subunit s (factor B)	-0.436	4.1E-02
212771_at	<i>FAM171A1</i>	family with sequence similarity 171, member A1	-0.436	4.1E-02
217973_at	<i>DCXR</i>	dicarbonyl/L-xylulose reductase	-0.436	4.1E-02
203544_s_at	<i>STAM</i>	signal transducing adaptor molecule (SH3 domain and ITAM motif) 1	-0.436	4.1E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
205712_at	<i>PTPRD</i>	protein tyrosine phosphatase, receptor type, D	-0.436	4.0E-02
223661_at	<i>NUCKS1</i>	Nuclear casein kinase and cyclin-dependent kinase substrate 1	-0.436	4.0E-02
224281_s_at	<i>NGRN</i>	neugrin, neurite outgrowth associated	-0.436	4.0E-02
200816_s_at	<i>PAFAH1B1</i>	platelet-activating factor acetylhydrolase 1b, regulatory subunit 1 (45kDa)	-0.436	4.0E-02
208667_s_at	<i>STI3</i>	suppression of tumorigenicity 13 (colon carcinoma) (Hsp70 interacting protein)	-0.436	4.0E-02
227701_at	<i>C10orf118</i>	chromosome 10 open reading frame 118	-0.436	4.0E-02
1553227_s_at	<i>BRWD1</i>	bromodomain and WD repeat domain containing 1	-0.436	4.0E-02
203075_at	<i>SMAD2</i>	SMAD family member 2	-0.436	4.0E-02
228122_at	<i>CCDC66</i>	coiled-coil domain containing 66	-0.436	4.0E-02
235672_at	<i>MAP6</i>	microtubule-associated protein 6	-0.436	4.0E-02
205022_s_at	<i>FOXN3</i>	forkhead box N3	-0.436	4.0E-02
202167_s_at	<i>MMS19</i>	MMS19 nucleotide excision repair homolog (S. cerevisiae)	-0.436	4.0E-02
207308_at	<i>SLCO1A2</i>	solute carrier organic anion transporter family, member 1A2	-0.436	4.0E-02
212114_at	<i>ATXN7L3B</i>	ataxin 7-like 3B	-0.437	4.0E-02
228196_s_at	<i>LARP4B</i>	La ribonucleoprotein domain family, member 4B	-0.437	4.0E-02
213805_at	<i>ABHD5</i>	abhydrolase domain containing 5	-0.437	4.0E-02
225409_at	<i>COA5</i>	cytochrome C oxidase assembly factor 5	-0.437	4.0E-02
201164_s_at	<i>PUM1</i>	pumilio homolog 1 (Drosophila)	-0.437	4.0E-02
206179_s_at	<i>TPPP</i>	tubulin polymerization promoting protein	-0.437	4.0E-02
214590_s_at	<i>UBE2D1</i>	ubiquitin-conjugating enzyme E2D 1	-0.437	4.0E-02
225031_at	<i>CHD6</i>	chromodomain helicase DNA binding protein 6	-0.437	4.0E-02
219077_s_at	<i>WWOX</i>	WW domain containing oxidoreductase	-0.437	4.0E-02
238585_at	<i>GTDC1</i>	glycosyltransferase-like domain containing 1	-0.437	4.0E-02
202986_at	<i>ARNT2</i>	aryl-hydrocarbon receptor nuclear translocator 2	-0.437	4.0E-02
223912_s_at	<i>CLN8</i>	ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental retardation)	-0.437	4.0E-02
213106_at	<i>ATP8A1</i>	ATPase, aminophospholipid transporter (APLT), class I, type 8A, member 1	-0.437	4.0E-02
229679_at	<i>C12orf76</i>	chromosome 12 open reading frame 76	-0.437	4.0E-02
203080_s_at	<i>BAZ2B</i>	bromodomain adjacent to zinc finger domain, 2B	-0.437	4.0E-02
209323_at	<i>PRKRIR</i>	protein-kinase, interferon-inducible double stranded RNA dependent inhibitor, repressor of (P58 repressor)	-0.437	4.0E-02
242586_at	<i>FSD1L</i>	fibronectin type III and SPRY domain containing 1-like	-0.438	4.0E-02
206308_at	<i>TRDMT1</i>	tRNA aspartic acid methyltransferase 1	-0.438	4.0E-02
211081_s_at	<i>MAP4K5</i>	mitogen-activated protein kinase kinase kinase kinase 5	-0.438	4.0E-02
225018_at	<i>SPIRE1</i>	spire homolog 1 (Drosophila)	-0.438	4.0E-02
225192_at	<i>CACUL1</i>	CDK2-associated, cullin domain 1	-0.438	4.0E-02
204091_at	<i>PDE6D</i>	phosphodiesterase 6D, cGMP-specific, rod, delta	-0.438	4.0E-02
222469_s_at	<i>TOLLIP</i>	toll interacting protein	-0.438	4.0E-02
208714_at	<i>NDUFV1</i>	NADH dehydrogenase (ubiquinone) flavoprotein 1, 51kDa	-0.438	4.0E-02
39582_at	<i>CYLD</i>	cylindromatosis (turban tumor syndrome)	-0.438	4.0E-02
237515_at	<i>TMEM56</i>	transmembrane protein 56	-0.438	3.9E-02
210835_s_at	<i>CTBP2</i>	C-terminal binding protein 2	-0.438	3.9E-02
230933_at	<i>DSTN</i>	Destrin (actin depolymerizing factor)	-0.438	3.9E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
204019_s_at	<i>SH3YL1</i>	SH3 domain containing, Ysc84-like 1 ( <i>S. cerevisiae</i> )	-0.439	3.9E-02
226649_at	<i>PANK1</i>	pantothenate kinase 1	-0.439	3.9E-02
209497_s_at	<i>RBM4B</i>	RNA binding motif protein 4B	-0.439	3.9E-02
222460_s_at	<i>FAM192A</i>	family with sequence similarity 192, member A	-0.439	3.9E-02
232038_at	<i>C6orf170</i>	chromosome 6 open reading frame 170	-0.439	3.9E-02
232020_at	<i>SMURF2</i>	SMAD specific E3 ubiquitin protein ligase 2	-0.439	3.9E-02
222434_at	<i>ENAH</i>	enabled homolog ( <i>Drosophila</i> )	-0.439	3.9E-02
203304_at	<i>BAMBI</i>	BMP and activin membrane-bound inhibitor homolog ( <i>Xenopus laevis</i> )	-0.439	3.9E-02
225045_at	<i>CCDC88A</i>	coiled-coil domain containing 88A	-0.439	3.9E-02
227498_at	<i>SOX6</i>	SRY (sex determining region Y)-box 6	-0.439	3.9E-02
227608_at	<i>DAP3</i>	death associated protein 3	-0.439	3.9E-02
228266_s_at	<i>HDGFRP3</i>	hepatoma-derived growth factor, related protein 3	-0.439	3.9E-02
201719_s_at	<i>EPB41L2</i>	erythrocyte membrane protein band 4.1-like 2	-0.439	3.9E-02
203494_s_at	<i>CEP57</i>	centrosomal protein 57kDa	-0.439	3.9E-02
218841_at	<i>ASB8</i>	ankyrin repeat and SOCS box containing 8	-0.439	3.9E-02
219889_at	<i>FRAT1</i>	frequently rearranged in advanced T-cell lymphomas	-0.440	3.8E-02
203553_s_at	<i>MAP4K5</i>	mitogen-activated protein kinase kinase kinase kinase 5	-0.440	3.8E-02
213199_at	<i>C2CD3</i>	C2 calcium-dependent domain containing 3	-0.440	3.8E-02
200832_s_at	<i>SCD</i>	stearoyl-CoA desaturase (delta-9-desaturase)	-0.440	3.8E-02
213049_at	<i>RALGAP1</i>	Ral GTPase activating protein, alpha subunit 1 (catalytic)	-0.440	3.8E-02
217952_x_at	<i>PHF3</i>	PHD finger protein 3	-0.440	3.8E-02
218111_s_at	<i>CMAS</i>	cytidine monophosphate N-acetylneuraminic acid synthetase	-0.440	3.8E-02
220321_s_at	<i>CCDC121</i>	coiled-coil domain containing 121	-0.440	3.8E-02
201235_s_at	<i>BTG2</i>	BTG family, member 2	-0.440	3.8E-02
204009_s_at	<i>KRAS</i>	v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog	-0.441	3.8E-02
33494_at	<i>ETFDH</i>	electron-transferring-flavoprotein dehydrogenase	-0.441	3.8E-02
204434_at	<i>SPATA2</i>	spermatogenesis associated 2	-0.441	3.8E-02
223437_at	<i>PPARA</i>	peroxisome proliferator-activated receptor alpha	-0.441	3.8E-02
219799_s_at	<i>DHRS9</i>	dehydrogenase/reductase (SDR family) member 9	-0.441	3.8E-02
227261_at	<i>KLF12</i>	Kruppel-like factor 12	-0.441	3.8E-02
233985_x_at	<i>PPP1R9A</i>	protein phosphatase 1, regulatory subunit 9A	-0.441	3.8E-02
230276_at	<i>FAM49A</i>	family with sequence similarity 49, member A	-0.441	3.8E-02
1554807_a_at	<i>SPIRE1</i>	spire homolog 1 ( <i>Drosophila</i> )	-0.441	3.8E-02
226312_at	<i>RICTOR</i>	RPTOR independent companion of MTOR, complex 2	-0.441	3.8E-02
218137_s_at	<i>SMAP1</i>	small ArfGAP 1	-0.441	3.8E-02
208731_at	<i>RAB2A</i>	RAB2A, member RAS oncogene family	-0.441	3.8E-02
208733_at	<i>RAB2A</i>	RAB2A, member RAS oncogene family	-0.441	3.8E-02
1554470_s_at	<i>ZBTB44</i>	zinc finger and BTB domain containing 44	-0.442	3.7E-02
240859_at	<i>ZFYVE16</i>	zinc finger, FYVE domain containing 16	-0.442	3.7E-02
230759_at	<i>SNX14</i>	Sorting nexin 14	-0.442	3.7E-02
201348_at	<i>GPX3</i>	glutathione peroxidase 3 (plasma)	-0.442	3.7E-02
220277_at	<i>CXXC4</i>	CXXC finger protein 4	-0.442	3.7E-02
226484_at	<i>ZBTB47</i>	zinc finger and BTB domain containing 47	-0.443	3.7E-02
241701_at	<i>ARHGAP21</i>	Rho GTPase activating protein 21	-0.443	3.7E-02
226269_at	<i>GDAP1</i>	ganglioside induced differentiation associated protein 1	-0.443	3.7E-02
218386_x_at	<i>USP16</i>	ubiquitin specific peptidase 16	-0.443	3.7E-02
206374_at	<i>DUSP8</i>	dual specificity phosphatase 8	-0.443	3.6E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
212829_at	<i>PIP4K2A</i>	phosphatidylinositol-5-phosphate 4-kinase, type II, alpha	-0.443	3.6E-02
210136_at	<i>MBP</i>	myelin basic protein	-0.444	3.6E-02
213355_at	<i>ST3GAL6</i>	ST3 beta-galactoside alpha-2,3-sialyltransferase 6	-0.444	3.6E-02
217895_at	<i>PTCD3</i>	pentatricopeptide repeat domain 3	-0.444	3.6E-02
218087_s_at	<i>SORBS1</i>	sorbin and SH3 domain containing 1	-0.444	3.6E-02
219671_at	<i>HPCAL4</i>	hippocalcin like 4	-0.444	3.6E-02
241809_at	<i>FAM212B</i>	family with sequence similarity 212, member B	-0.444	3.6E-02
203598_s_at	<i>WBP4</i>	WW domain binding protein 4 (formin binding protein 21)	-0.444	3.6E-02
219341_at	<i>CLN8</i>	ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental retardation)	-0.444	3.6E-02
221519_at	<i>FBXW4</i>	F-box and WD repeat domain containing 4	-0.444	3.6E-02
224782_at	<i>ZMAT2</i>	zinc finger, matrin-type 2	-0.444	3.6E-02
227037_at	<i>PLD6</i>	phospholipase D family, member 6	-0.444	3.6E-02
231567_s_at	<i>CCDC62</i>	coiled-coil domain containing 62	-0.444	3.6E-02
206462_s_at	<i>NTRK3</i>	neurotrophic tyrosine kinase, receptor, type 3	-0.444	3.6E-02
202521_at	<i>CTCF</i>	CCCTC-binding factor (zinc finger protein)	-0.444	3.6E-02
217936_at	<i>ARHGAP5</i>	Rho GTPase activating protein 5	-0.444	3.6E-02
218877_s_at	<i>TRMT11</i>	tRNA methyltransferase 11 homolog (S. cerevisiae)	-0.444	3.6E-02
227637_at	<i>TFCP2</i>	transcription factor CP2	-0.444	3.6E-02
235694_at	<i>TCFL5</i>	transcription factor-like 5 (basic helix-loop-helix)	-0.444	3.6E-02
200597_at	<i>EIF3A</i>	eukaryotic translation initiation factor 3, subunit A	-0.444	3.6E-02
218824_at	<i>PNMAL1</i>	paraneoplastic Ma antigen family-like 1	-0.445	3.6E-02
209452_s_at	<i>VTI1B</i>	vesicle transport through interaction with t-SNAREs homolog 1B (yeast)	-0.445	3.6E-02
213960_at	<i>NTRK3</i>	neurotrophic tyrosine kinase, receptor, type 3	-0.445	3.6E-02
1552627_a_at	<i>ARHGAP5</i>	Rho GTPase activating protein 5	-0.445	3.6E-02
205730_s_at	<i>ABLIM3</i>	actin binding LIM protein family, member 3	-0.445	3.6E-02
202260_s_at	<i>STXBP1</i>	syntaxin binding protein 1	-0.445	3.6E-02
224784_at	<i>MLLT6</i>	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 6	-0.445	3.6E-02
218603_at	<i>HECA</i>	headcase homolog (Drosophila)	-0.445	3.6E-02
202187_s_at	<i>PPP2R5A</i>	protein phosphatase 2, regulatory subunit B', alpha	-0.445	3.6E-02
212830_at	<i>MEGF9</i>	multiple EGF-like-domains 9	-0.445	3.6E-02
202544_at	<i>GMFB</i>	glia maturation factor, beta	-0.445	3.6E-02
213407_at	<i>PHLPP2</i>	PH domain and leucine rich repeat protein phosphatase 2	-0.446	3.5E-02
228329_at	<i>DAB1</i>	disabled homolog 1 (Drosophila)	-0.446	3.5E-02
214585_s_at	<i>VPS52</i>	vacuolar protein sorting 52 homolog (S. cerevisiae)	-0.446	3.5E-02
216100_s_at	<i>TOR1AIP1</i>	torsin A interacting protein 1	-0.446	3.5E-02
203790_s_at	<i>HRSP12</i>	heat-responsive protein 12	-0.446	3.5E-02
227000_at	<i>C7orf41</i>	chromosome 7 open reading frame 41	-0.446	3.5E-02
201799_s_at	<i>OSBP</i>	oxysterol binding protein	-0.446	3.5E-02
203364_s_at	<i>ATG13</i>	autophagy related 13	-0.446	3.5E-02
213236_at	<i>SASH1</i>	SAM and SH3 domain containing 1	-0.446	3.5E-02
217969_at	<i>C11orf2</i>	chromosome 11 open reading frame 2	-0.446	3.5E-02
200596_s_at	<i>EIF3A</i>	eukaryotic translation initiation factor 3, subunit A	-0.446	3.5E-02
226398_s_at	<i>FRA10AC1</i>	fragile site, folic acid type, rare, fra(10)(q23.3) or fra(10)(q24.2) candidate 1	-0.446	3.5E-02
202770_s_at	<i>CCNG2</i>	cyclin G2	-0.446	3.5E-02



Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
225629_s_at	<i>ZBTB4</i>	zinc finger and BTB domain containing 4	-0.446	3.5E-02
202359_s_at	<i>SNX19</i>	sorting nexin 19	-0.447	3.5E-02
218874_s_at	<i>ATAT1</i>	alpha tubulin acetyltransferase 1	-0.447	3.5E-02
206506_s_at	<i>SUPT3H</i>	suppressor of Ty 3 homolog (S. cerevisiae)	-0.447	3.5E-02
205651_x_at	<i>RAPGEF4</i>	Rap guanine nucleotide exchange factor (GEF) 4	-0.447	3.5E-02
209018_s_at	<i>PINK1</i>	PTEN induced putative kinase 1	-0.447	3.5E-02
204151_x_at	<i>AKR1C1</i>	aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase)	-0.447	3.5E-02
226339_at	<i>TRUB1</i>	TruB pseudouridine (psi) synthase homolog 1 (E. coli)	-0.447	3.5E-02
1556696_s_at	<i>FLJ42709</i>	uncharacterized LOC441094	-0.447	3.5E-02
244011_at	<i>PPMIK</i>	protein phosphatase, Mg2+/Mn2+ dependent, 1K	-0.447	3.5E-02
207152_at	<i>NTRK2</i>	neurotrophic tyrosine kinase, receptor, type 2	-0.447	3.5E-02
222405_at	<i>PTPLAD1</i>	protein tyrosine phosphatase-like A domain containing 1	-0.448	3.5E-02
203628_at	<i>IGF1R</i>	insulin-like growth factor 1 receptor	-0.448	3.4E-02
228512_at	<i>PTCD3</i>	pentatricopeptide repeat domain 3	-0.448	3.4E-02
244194_at	<i>ADAM22</i>	ADAM metallopeptidase domain 22	-0.448	3.4E-02
218862_at	<i>ASB13</i>	ankyrin repeat and SOCS box containing 13	-0.448	3.4E-02
213278_at	<i>MTMR9</i>	myotubularin related protein 9	-0.448	3.4E-02
217644_s_at	<i>SOS2</i>	son of sevenless homolog 2 (Drosophila)	-0.448	3.4E-02
226572_at	<i>SOCS7</i>	suppressor of cytokine signaling 7	-0.448	3.4E-02
218185_s_at	<i>ARMC1</i>	armadillo repeat containing 1	-0.448	3.4E-02
208656_s_at	<i>CCNI</i>	cyclin I	-0.449	3.4E-02
218394_at	<i>ROGDI</i>	rogdi homolog (Drosophila)	-0.449	3.4E-02
213377_x_at	<i>RPS12</i>	ribosomal protein S12	-0.449	3.4E-02
227497_at	<i>SOX6</i>	SRY (sex determining region Y)-box 6	-0.449	3.4E-02
227624_at	<i>TET2</i>	tet methylcytosine dioxygenase 2	-0.449	3.4E-02
242418_at	<i>C2orf27A</i>	chromosome 2 open reading frame 27A	-0.449	3.4E-02
204672_s_at	<i>ANKRD6</i>	ankyrin repeat domain 6	-0.449	3.4E-02
225049_at	<i>BLOC1S2</i>	biogenesis of lysosomal organelles complex-1, subunit 2	-0.449	3.4E-02
222794_x_at	<i>MTPAP</i>	mitochondrial poly(A) polymerase	-0.449	3.4E-02
213626_at	<i>CBR4</i>	carbonyl reductase 4	-0.449	3.4E-02
229970_at	<i>KBTD7</i>	kelch repeat and BTB (POZ) domain containing 7	-0.450	3.4E-02
244687_at	<i>DBT</i>	dihydrolipoamide branched chain transacylase E2	-0.450	3.3E-02
212339_at	<i>EPB41L1</i>	erythrocyte membrane protein band 4.1-like 1	-0.450	3.3E-02
243176_at	<i>ARL5A</i>	ADP-ribosylation factor-like 5A	-0.450	3.3E-02
211761_s_at	<i>CACYBP</i>	calyculin binding protein	-0.450	3.3E-02
224564_s_at	<i>RTN3</i>	reticulon 3	-0.450	3.3E-02
226487_at	<i>FAM222A</i>	family with sequence similarity 222, member A	-0.450	3.3E-02
219067_s_at	<i>NSMCE4A</i>	non-SMC element 4 homolog A (S. cerevisiae)	-0.450	3.3E-02
205818_at	<i>DBC1</i>	deleted in bladder cancer 1	-0.450	3.3E-02
226169_at	<i>SBF2</i>	SET binding factor 2	-0.451	3.3E-02
206158_s_at	<i>CNBP</i>	CCHC-type zinc finger, nucleic acid binding protein	-0.451	3.3E-02
221788_at	<i>PGM3</i>	phosphoglucomutase 3	-0.451	3.3E-02
227370_at	<i>FAM171B</i>	family with sequence similarity 171, member B	-0.451	3.3E-02
203428_s_at	<i>ASF1A</i>	ASF1 anti-silencing function 1 homolog A (S. cerevisiae)	-0.451	3.3E-02
226139_at	<i>CCDC149</i>	coiled-coil domain containing 149	-0.452	3.2E-02
225623_at	<i>KIAA1737</i>	KIAA1737	-0.452	3.2E-02
221547_at	<i>PRPF18</i>	PRP18 pre-mRNA processing factor 18 homolog (S.	-0.452	3.2E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
200662_s_at	<i>TOMM20</i>	cerevisiae) translocase of outer mitochondrial membrane 20 homolog (yeast)	-0.452	3.2E-02
212153_at	<i>POGZ</i>	pogo transposable element with ZNF domain	-0.452	3.2E-02
218281_at	<i>MRPL48</i>	mitochondrial ribosomal protein L48	-0.452	3.2E-02
225477_s_at	<i>NR2C2</i>	nuclear receptor subfamily 2, group C, member 2	-0.452	3.2E-02
204512_at	<i>HIVEP1</i>	human immunodeficiency virus type I enhancer binding protein 1	-0.452	3.2E-02
209988_s_at	<i>ASCL1</i>	achaete-scute complex homolog 1 (Drosophila)	-0.452	3.2E-02
202363_at	<i>SPOCK1</i>	sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 1	-0.452	3.2E-02
212970_at	<i>APBB2</i>	amyloid beta (A4) precursor protein-binding, family B, member 2	-0.453	3.2E-02
224605_at	<i>C4orf3</i>	chromosome 4 open reading frame 3	-0.453	3.2E-02
227440_at	<i>ANKS1B</i>	ankyrin repeat and sterile alpha motif domain containing 1B	-0.453	3.2E-02
204823_at	<i>NAV3</i>	neuron navigator 3	-0.453	3.2E-02
204671_s_at	<i>ANKRD6</i>	ankyrin repeat domain 6	-0.453	3.1E-02
223799_at	<i>MSANTD4</i>	Myb/SANT-like DNA-binding domain containing 4 with coiled-coils	-0.453	3.1E-02
201959_s_at	<i>MYCBP2</i>	MYC binding protein 2, E3 ubiquitin protein ligase	-0.454	3.1E-02
214091_s_at	<i>GPX3</i>	glutathione peroxidase 3 (plasma)	-0.454	3.1E-02
229743_at	<i>ZNF438</i>	zinc finger protein 438	-0.454	3.1E-02
217777_s_at	<i>PTPLAD1</i>	protein tyrosine phosphatase-like A domain containing 1	-0.454	3.1E-02
221792_at	<i>RAB6B</i>	RAB6B, member RAS oncogene family	-0.454	3.1E-02
228457_at	<i>PPM1L</i>	protein phosphatase, Mg <sup>2+</sup> /Mn <sup>2+</sup> dependent, 1L	-0.454	3.1E-02
238550_at	<i>RUFY2</i>	RUN and FYVE domain containing 2	-0.454	3.1E-02
204120_s_at	<i>ADK</i>	adenosine kinase	-0.454	3.1E-02
220282_at	<i>RIC3</i>	resistance to inhibitors of cholinesterase 3 homolog (C. elegans)	-0.454	3.1E-02
226425_at	<i>CLIP4</i>	CAP-GLY domain containing linker protein family, member 4	-0.454	3.1E-02
201381_x_at	<i>CACYBP</i>	calyculin binding protein	-0.454	3.1E-02
206241_at	<i>KPNA5</i>	karyopherin alpha 5 (importin alpha 6)	-0.454	3.1E-02
207108_s_at	<i>NIPBL</i>	Nipped-B homolog (Drosophila)	-0.454	3.1E-02
210896_s_at	<i>ASPH</i>	aspartate beta-hydroxylase	-0.454	3.1E-02
220028_at	<i>ACVR2B</i>	activin A receptor, type IIB	-0.454	3.1E-02
208635_x_at	<i>NACA</i>	nascent polypeptide-associated complex alpha subunit	-0.454	3.1E-02
218523_at	<i>LHPP</i>	phospholysine phosphohistidine inorganic pyrophosphate phosphatase	-0.454	3.1E-02
227531_at	<i>CLOCK</i>	clock homolog (mouse)	-0.454	3.1E-02
209148_at	<i>RXRβ</i>	retinoid X receptor, beta	-0.455	3.1E-02
1552754_a_at	<i>CADM2</i>	cell adhesion molecule 2	-0.455	3.1E-02
209160_at	<i>AKR1C3</i>	aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid dehydrogenase, type II)	-0.455	3.1E-02
241682_at	<i>KLHL23</i>	kelch-like 23 (Drosophila)	-0.455	3.1E-02
201051_at	<i>ANP32A</i>	acidic (leucine-rich) nuclear phosphoprotein 32 family, member A	-0.455	3.1E-02
219137_s_at	<i>MFF</i>	mitochondrial fission factor	-0.455	3.1E-02
209735_at	<i>ABCG2</i>	ATP-binding cassette, sub-family G (WHITE), member 2	-0.455	3.1E-02
200612_s_at	<i>AP2B1</i>	adaptor-related protein complex 2, beta 1 subunit	-0.455	3.1E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
201220_x_at	<i>CTBP2</i>	C-terminal binding protein 2	-0.455	3.1E-02
226641_at	<i>ANKRD44</i>	ankyrin repeat domain 44	-0.455	3.1E-02
204238_s_at	<i>C6orf108</i>	chromosome 6 open reading frame 108	-0.456	3.1E-02
238923_at	<i>SPOP</i>	speckle-type POZ protein	-0.456	3.1E-02
224883_at	<i>PLDN</i>	pallidin homolog (mouse)	-0.456	3.0E-02
235472_at	<i>FUT10</i>	fucosyltransferase 10 (alpha (1,3) fucosyltransferase)	-0.456	3.0E-02
223350_x_at	<i>LIN7C</i>	lin-7 homolog C (C. elegans)	-0.456	3.0E-02
226399_at	<i>DNAJB14</i>	DnaJ (Hsp40) homolog, subfamily B, member 14	-0.456	3.0E-02
225339_at	<i>SPAG9</i>	sperm associated antigen 9	-0.456	3.0E-02
225218_at	<i>ZFYVE27</i>	zinc finger, FYVE domain containing 27	-0.457	3.0E-02
227119_at	<i>CNOT6L</i>	CCR4-NOT transcription complex, subunit 6-like	-0.457	3.0E-02
201915_at	<i>SEC63</i>	SEC63 homolog (S. cerevisiae)	-0.457	3.0E-02
201960_s_at	<i>MYCBP2</i>	MYC binding protein 2, E3 ubiquitin protein ligase	-0.457	3.0E-02
231175_at	<i>BEND6</i>	BEN domain containing 6	-0.457	3.0E-02
212774_at	<i>ZNF238</i>	zinc finger protein 238	-0.457	3.0E-02
227178_at	<i>CELF2</i>	CUGBP, Elav-like family member 2	-0.457	3.0E-02
212357_at	<i>FAM168A</i>	family with sequence similarity 168, member A	-0.457	3.0E-02
223263_s_at	<i>FGFR1OP2</i>	FGFR1 oncogene partner 2	-0.457	3.0E-02
238521_at	<i>FGF12</i>	fibroblast growth factor 12	-0.457	3.0E-02
1555268_a_at	<i>GRID1</i>	glutamate receptor, ionotropic, delta 1	-0.457	3.0E-02
218631_at	<i>AVPII</i>	arginine vasopressin-induced 1	-0.457	3.0E-02
203223_at	<i>RABEP1</i>	rabaptin, RAB GTPase binding effector protein 1	-0.457	3.0E-02
218158_s_at	<i>APPL1</i>	adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1	-0.457	3.0E-02
225198_at	<i>VAPA</i>	VAMP (vesicle-associated membrane protein)-associated protein A, 33kDa	-0.458	3.0E-02
203241_at	<i>UVRAG</i>	UV radiation resistance associated gene	-0.458	3.0E-02
202326_at	<i>EHMT2</i>	euchromatic histone-lysine N-methyltransferase 2	-0.458	3.0E-02
210121_at	<i>B3GALT2</i>	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 2	-0.458	3.0E-02
213439_x_at	<i>RUNDC3A</i>	RUN domain containing 3A	-0.458	3.0E-02
235415_at	<i>RPRD2</i>	regulation of nuclear pre-mRNA domain containing 2	-0.458	3.0E-02
227559_at	<i>NDUFAF4</i>	NADH dehydrogenase (ubiquinone) complex I, assembly factor 4	-0.458	3.0E-02
202923_s_at	<i>GCLC</i>	glutamate-cysteine ligase, catalytic subunit	-0.458	2.9E-02
244227_at	<i>SYT6</i>	synaptotagmin VI	-0.458	2.9E-02
201996_s_at	<i>SPEN</i>	spen homolog, transcriptional regulator (Drosophila)	-0.459	2.9E-02
203930_s_at	<i>MAPT</i>	microtubule-associated protein tau	-0.459	2.9E-02
206045_s_at	<i>NOL4</i>	nucleolar protein 4	-0.459	2.9E-02
221589_s_at	<i>ALDH6A1</i>	aldehyde dehydrogenase 6 family, member A1	-0.459	2.9E-02
239223_s_at	<i>FBXL20</i>	F-box and leucine-rich repeat protein 20	-0.459	2.9E-02
204546_at	<i>KIAA0513</i>	KIAA0513	-0.459	2.9E-02
205849_s_at	<i>UQCRCB</i>	ubiquinol-cytochrome c reductase binding protein	-0.459	2.9E-02
226439_s_at	<i>NBEA</i>	neurobeachin	-0.459	2.9E-02
230141_at	<i>ARID4A</i>	AT rich interactive domain 4A (RBP1-like)	-0.459	2.9E-02
214434_at	<i>HSPA12A</i>	heat shock 70kDa protein 12A	-0.459	2.9E-02
217196_s_at	<i>CAMSAP2</i>	calmodulin regulated spectrin-associated protein family, member 2	-0.459	2.9E-02
201535_at	<i>UBL3</i>	ubiquitin-like 3	-0.459	2.9E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
209274_s_at	<i>ISCA1</i>	iron-sulfur cluster assembly 1 homolog (S. cerevisiae)	-0.459	2.9E-02
209106_at	<i>NCOA1</i>	nuclear receptor coactivator 1	-0.460	2.9E-02
222880_at	<i>AKT3</i>	v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)	-0.460	2.9E-02
225830_at	<i>PDZD8</i>	PDZ domain containing 8	-0.460	2.9E-02
201036_s_at	<i>HADH</i>	hydroxyacyl-CoA dehydrogenase	-0.460	2.9E-02
224458_at	<i>TMEM246</i>	transmembrane protein 246	-0.460	2.9E-02
209272_at	<i>NAB1</i>	NGFI-A binding protein 1 (EGR1 binding protein 1)	-0.460	2.9E-02
1552658_a_at	<i>NAV3</i>	neuron navigator 3	-0.460	2.9E-02
221820_s_at	<i>KAT8</i>	K(lysine) acetyltransferase 8	-0.460	2.9E-02
238476_at	<i>CREBRF</i>	CREB3 regulatory factor	-0.460	2.9E-02
200721_s_at	<i>ACTR1A</i>	ARP1 actin-related protein 1 homolog A, cencentractin alpha (yeast)	-0.460	2.9E-02
228793_at	<i>JMJD1C</i>	jumonji domain containing 1C	-0.460	2.9E-02
201962_s_at	<i>RNF41</i>	ring finger protein 41	-0.460	2.9E-02
210695_s_at	<i>WWOX</i>	WW domain containing oxidoreductase	-0.460	2.9E-02
219036_at	<i>CEP70</i>	centrosomal protein 70kDa	-0.460	2.9E-02
222538_s_at	<i>APPL1</i>	adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1	-0.460	2.9E-02
244133_at	<i>USP49</i>	ubiquitin specific peptidase 49	-0.461	2.9E-02
221495_s_at	<i>TCF25</i>	transcription factor 25 (basic helix-loop-helix)	-0.461	2.9E-02
205005_s_at	<i>NMT2</i>	N-myristoyltransferase 2	-0.461	2.8E-02
212450_at	<i>SECISBP2L</i>	SECIS binding protein 2-like	-0.461	2.8E-02
218224_at	<i>PNMA1</i>	paraneoplastic Ma antigen 1	-0.461	2.8E-02
220595_at	<i>PDZRN4</i>	PDZ domain containing ring finger 4	-0.461	2.8E-02
222824_at	<i>NUDT5</i>	nudix (nucleoside diphosphate linked moiety X)-type motif 5	-0.461	2.8E-02
205171_at	<i>PTPN4</i>	protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte)	-0.461	2.8E-02
213689_x_at	<i>FAM69A</i>	family with sequence similarity 69, member A	-0.461	2.8E-02
201989_s_at	<i>CREBL2</i>	cAMP responsive element binding protein-like 2	-0.461	2.8E-02
208166_at	<i>MMP16</i>	matrix metalloproteinase 16 (membrane-inserted)	-0.461	2.8E-02
224772_at	<i>NAV1</i>	neuron navigator 1	-0.461	2.8E-02
225092_at	<i>RABEP1</i>	rabaptin, RAB GTPase binding effector protein 1	-0.461	2.8E-02
1555544_a_at	<i>CADM2</i>	cell adhesion molecule 2	-0.461	2.8E-02
206385_s_at	<i>ANK3</i>	ankyrin 3, node of Ranvier (ankyrin G)	-0.461	2.8E-02
219728_at	<i>MYOT</i>	myotilin	-0.462	2.8E-02
230027_s_at	<i>MRPL43</i>	mitochondrial ribosomal protein L43	-0.462	2.8E-02
230002_at	<i>GPSM2</i>	G-protein signaling modulator 2	-0.462	2.8E-02
203482_at	<i>FAM178A</i>	family with sequence similarity 178, member A	-0.462	2.8E-02
222476_at	<i>CNOT6</i>	CCR4-NOT transcription complex, subunit 6	-0.462	2.8E-02
228771_at	<i>ADRBK2</i>	adrenergic, beta, receptor kinase 2	-0.462	2.8E-02
201976_s_at	<i>MYO10</i>	myosin X	-0.462	2.8E-02
225976_at	<i>BTF3L4</i>	basic transcription factor 3-like 4	-0.462	2.8E-02
226822_at	<i>STOX2</i>	storkhead box 2	-0.462	2.8E-02
212358_at	<i>CLIP3</i>	CAP-GLY domain containing linker protein 3	-0.463	2.7E-02
201772_at	<i>AZIN1</i>	antizyme inhibitor 1	-0.463	2.7E-02
242098_at	<i>KIAA1244</i>	KIAA1244	-0.463	2.7E-02
200795_at	<i>SPARCL1</i>	SPARC-like 1 (hevin)	-0.463	2.7E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
206818_s_at	<i>CNNM2</i>	cyclin M2	-0.463	2.7E-02
228414_at	<i>KCNMA1</i>	potassium large conductance calcium-activated channel, subfamily M, alpha member 1	-0.463	2.7E-02
213331_s_at	<i>NEK1</i>	NIMA (never in mitosis gene a)-related kinase 1	-0.464	2.7E-02
229848_at	<i>ZNF10</i>	zinc finger protein 10	-0.464	2.7E-02
202981_x_at	<i>SIAH1</i>	siah E3 ubiquitin protein ligase 1	-0.464	2.7E-02
239726_at	<i>ANK3</i>	ankyrin 3, node of Ranvier (ankyrin G)	-0.464	2.7E-02
221483_s_at	<i>ARPP19</i>	cAMP-regulated phosphoprotein, 19kDa	-0.464	2.7E-02
230320_at	<i>TBRG1</i>	transforming growth factor beta regulator 1	-0.464	2.7E-02
202289_s_at	<i>TACC2</i>	transforming, acidic coiled-coil containing protein 2	-0.464	2.7E-02
205751_at	<i>SH3GL2</i>	SH3-domain GRB2-like 2	-0.464	2.7E-02
227996_at	<i>FARP1</i>	FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1 (chondrocyte-derived)	-0.464	2.7E-02
224561_s_at	<i>MORF4L1</i>	mortality factor 4 like 1	-0.464	2.7E-02
230178_s_at	<i>ELP2</i>	elongation protein 2 homolog (S. cerevisiae)	-0.464	2.7E-02
218297_at	<i>FAM188A</i>	family with sequence similarity 188, member A	-0.465	2.7E-02
226056_at	<i>ARHGAP31</i>	Rho GTPase activating protein 31	-0.465	2.7E-02
209442_x_at	<i>ANK3</i>	ankyrin 3, node of Ranvier (ankyrin G)	-0.465	2.7E-02
218031_s_at	<i>FOXN3</i>	forkhead box N3	-0.465	2.7E-02
229145_at	<i>ANAPC16</i>	anaphase promoting complex subunit 16	-0.465	2.7E-02
204287_at	<i>SYNGR1</i>	synaptogyrin 1	-0.465	2.7E-02
201383_s_at	<i>NBR1</i>	neighbor of BRCA1 gene 1	-0.465	2.6E-02
58308_at	<i>TRIM62</i>	tripartite motif containing 62	-0.465	2.6E-02
212901_s_at	<i>CSTF2T</i>	cleavage stimulation factor, 3' pre-RNA, subunit 2, 64kDa, tau variant	-0.465	2.6E-02
216594_x_at	<i>AKR1C1</i>	aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase)	-0.466	2.6E-02
225420_at	<i>GPAM</i>	glycerol-3-phosphate acyltransferase, mitochondrial	-0.466	2.6E-02
1554544_a_at	<i>MBP</i>	myelin basic protein	-0.466	2.6E-02
208883_at	<i>UBR5</i>	ubiquitin protein ligase E3 component n-recogin 5	-0.466	2.6E-02
218583_s_at	<i>DCUN1D1</i>	DCN1, defective in cullin neddylation 1, domain containing 1 (S. cerevisiae)	-0.466	2.6E-02
227113_at	<i>ADHFE1</i>	alcohol dehydrogenase, iron containing, 1	-0.466	2.6E-02
233498_at	<i>ERBB4</i>	v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian)	-0.466	2.6E-02
226181_at	<i>TUBE1</i>	tubulin, epsilon 1	-0.466	2.6E-02
201366_at	<i>ANXA7</i>	annexin A7	-0.466	2.6E-02
201776_s_at	<i>KIAA0494</i>	KIAA0494	-0.466	2.6E-02
222696_at	<i>AXIN2</i>	axin 2	-0.467	2.6E-02
1553974_at	<i>C22orf39</i>	chromosome 22 open reading frame 39	-0.467	2.6E-02
209117_at	<i>WBP2</i>	WW domain binding protein 2	-0.467	2.6E-02
205732_s_at	<i>NCOA2</i>	nuclear receptor coactivator 2	-0.467	2.6E-02
213197_at	<i>ASTN1</i>	astrotactin 1	-0.467	2.6E-02
218519_at	<i>SLC35A5</i>	solute carrier family 35, member A5	-0.467	2.6E-02
215436_at	<i>HSDL2</i>	Hydroxysteroid dehydrogenase like 2	-0.467	2.6E-02
218177_at	<i>CHMP1B</i>	charged multivesicular body protein 1B	-0.467	2.6E-02
218026_at	<i>CCDC56</i>	coiled-coil domain containing 56	-0.467	2.6E-02
221795_at	<i>NTRK2</i>	neurotrophic tyrosine kinase, receptor, type 2	-0.467	2.6E-02
222148_s_at	<i>RHOT1</i>	ras homolog family member T1	-0.468	2.6E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
216511_s_at	<i>TCF7L2</i>	transcription factor 7-like 2 (T-cell specific, HMG-box)	-0.468	2.5E-02
227679_at	<i>HDAC11</i>	histone deacetylase 11	-0.468	2.5E-02
38340_at	<i>HIP1R</i>	huntingtin interacting protein 1 related	-0.468	2.5E-02
234988_at	<i>VCPIP1</i>	valosin containing protein (p97)/p47 complex interacting protein 1	-0.468	2.5E-02
228174_at	<i>SCAI</i>	suppressor of cancer cell invasion	-0.468	2.5E-02
227441_s_at	<i>ANKS1B</i>	ankyrin repeat and sterile alpha motif domain containing 1B	-0.468	2.5E-02
217954_s_at	<i>PHF3</i>	PHD finger protein 3	-0.468	2.5E-02
222576_s_at	<i>EIF2C1</i>	eukaryotic translation initiation factor 2C, 1	-0.469	2.5E-02
229053_at	<i>SYT17</i>	synaptotagmin XVII	-0.469	2.5E-02
231869_at	<i>KIAA1586</i>	KIAA1586	-0.469	2.5E-02
213913_s_at	<i>TBC1D30</i>	TBC1 domain family, member 30	-0.469	2.5E-02
212758_s_at	<i>ZEB1</i>	zinc finger E-box binding homeobox 1	-0.469	2.5E-02
226913_s_at	<i>SOX8</i>	SRY (sex determining region Y)-box 8	-0.469	2.5E-02
227373_at	<i>ATXN1L</i>	ataxin 1-like	-0.469	2.5E-02
203260_at	<i>HDDC2</i>	HD domain containing 2	-0.469	2.5E-02
227516_at	<i>SF3A1</i>	splicing factor 3a, subunit 1, 120kDa	-0.469	2.5E-02
1555246_a_at	<i>SCN1A</i>	sodium channel, voltage-gated, type I, alpha subunit	-0.470	2.5E-02
200813_s_at	<i>PAFAH1B1</i>	platelet-activating factor acetylhydrolase 1b, regulatory subunit 1 (45kDa)	-0.470	2.5E-02
205139_s_at	<i>UST</i>	uronyl-2-sulfotransferase	-0.470	2.5E-02
204720_s_at	<i>DNAJC6</i>	DnaJ (Hsp40) homolog, subfamily C, member 6	-0.470	2.5E-02
226711_at	<i>FOXN2</i>	forkhead box N2	-0.470	2.5E-02
224861_at	<i>GNAQ</i>	guanine nucleotide binding protein (G protein), q polypeptide	-0.471	2.4E-02
203595_s_at	<i>IFIT5</i>	interferon-induced protein with tetratricopeptide repeats 5	-0.471	2.4E-02
212755_at	<i>MON2</i>	MON2 homolog (S. cerevisiae)	-0.471	2.4E-02
223098_s_at	<i>LONP2</i>	lon peptidase 2, peroxisomal	-0.471	2.4E-02
213186_at	<i>DZIP3</i>	DAZ interacting protein 3, zinc finger	-0.471	2.4E-02
217197_x_at	<i>N4BP2L1</i>	NEDD4 binding protein 2-like 1	-0.471	2.4E-02
225498_at	<i>CHMP4B</i>	charged multivesicular body protein 4B	-0.471	2.4E-02
235005_at	<i>DIS3L</i>	DIS3 mitotic control homolog (S. cerevisiae)-like	-0.471	2.4E-02
227908_at	<i>TBC1D24</i>	TBC1 domain family, member 24	-0.471	2.4E-02
214383_x_at	<i>KLHDC3</i>	kelch domain containing 3	-0.471	2.4E-02
242065_x_at	<i>IDII</i>	isopentenyl-diphosphate delta isomerase 1	-0.471	2.4E-02
202250_s_at	<i>DCAF8</i>	DDB1 and CUL4 associated factor 8	-0.471	2.4E-02
215311_at	<i>NTRK3</i>	neurotrophic tyrosine kinase, receptor, type 3	-0.471	2.4E-02
226583_at	<i>C12orf76</i>	chromosome 12 open reading frame 76	-0.471	2.4E-02
227124_at	<i>C6orf228</i>	chromosome 6 open reading frame 228	-0.471	2.4E-02
228827_at	<i>RUNX1T1</i>	runt-related transcription factor 1; translocated to, 1 (cyclin D-related)	-0.472	2.4E-02
232366_at	<i>KIAA0232</i>	KIAA0232	-0.472	2.4E-02
224995_at	<i>SPIRE1</i>	spire homolog 1 (Drosophila)	-0.472	2.4E-02
202960_s_at	<i>MUT</i>	methylmalonyl CoA mutase	-0.472	2.4E-02
217868_s_at	<i>METTL9</i>	methyltransferase like 9	-0.472	2.4E-02
1553030_a_at	<i>SUOX</i>	sulfite oxidase	-0.472	2.4E-02
226049_at	<i>ERC1</i>	ELKS/RAB6-interacting/CAST family member 1	-0.472	2.4E-02
213361_at	<i>TDRD7</i>	tudor domain containing 7	-0.472	2.4E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
201027_s_at	<i>EIF5B</i>	eukaryotic translation initiation factor 5B	-0.472	2.4E-02
201871_s_at	<i>UBXN1</i>	UBX domain protein 1	-0.472	2.4E-02
229213_at	<i>DIRC2</i>	disrupted in renal carcinoma 2	-0.473	2.4E-02
201674_s_at	<i>AKAP1</i>	A kinase (PRKA) anchor protein 1	-0.473	2.4E-02
203597_s_at	<i>WBP4</i>	WW domain binding protein 4 (formin binding protein 21)	-0.473	2.4E-02
203607_at	<i>INPP5F</i>	inositol polyphosphate-5-phosphatase F	-0.473	2.4E-02
212500_at	<i>ADO</i>	2-aminoethanethiol (cysteamine) dioxygenase	-0.473	2.4E-02
225483_at	<i>VPS26B</i>	vacuolar protein sorting 26 homolog B (S. pombe)	-0.473	2.4E-02
227839_at	<i>MBD5</i>	methyl-CpG binding domain protein 5	-0.473	2.4E-02
204513_s_at	<i>ELMO1</i>	engulfment and cell motility 1	-0.473	2.4E-02
225482_at	<i>KIF1A</i>	kinesin family member 1A	-0.473	2.4E-02
201738_at	<i>EIF1B</i>	eukaryotic translation initiation factor 1B	-0.473	2.3E-02
236332_at	<i>DHRS7</i>	dehydrogenase/reductase (SDR family) member 7	-0.473	2.3E-02
1555391_a_at	<i>ALS2CR8</i>	amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 8	-0.473	2.3E-02
213386_at	<i>TMEM246</i>	transmembrane protein 246	-0.473	2.3E-02
228177_at	<i>CREBBP</i>	CREB binding protein	-0.474	2.3E-02
230789_at	<i>ZNF280B</i>	zinc finger protein 280B	-0.474	2.3E-02
200718_s_at	<i>SKP1</i>	S-phase kinase-associated protein 1	-0.474	2.3E-02
218129_s_at	<i>NFYB</i>	nuclear transcription factor Y, beta	-0.474	2.3E-02
209258_s_at	<i>SMC3</i>	structural maintenance of chromosomes 3	-0.474	2.3E-02
228469_at	<i>PPID</i>	Peptidylprolyl isomerase D	-0.474	2.3E-02
202341_s_at	<i>TRIM2</i>	tripartite motif containing 2	-0.474	2.3E-02
210156_s_at	<i>PCMT1</i>	protein-L-isoaspartate (D-aspartate) O-methyltransferase	-0.475	2.3E-02
203552_at	<i>MAP4K5</i>	mitogen-activated protein kinase kinase kinase 5	-0.475	2.3E-02
209617_s_at	<i>CTNND2</i>	catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein)	-0.475	2.3E-02
227539_at	<i>GNA13</i>	guanine nucleotide binding protein (G protein), alpha 13	-0.475	2.3E-02
238076_at	<i>GATAD2B</i>	GATA zinc finger domain containing 2B	-0.475	2.3E-02
216129_at	<i>ATP9A</i>	ATPase, class II, type 9A	-0.475	2.3E-02
221534_at	<i>C11orf68</i>	chromosome 11 open reading frame 68	-0.475	2.3E-02
221482_s_at	<i>ARPPP19</i>	cAMP-regulated phosphoprotein, 19kDa	-0.475	2.3E-02
225810_at	<i>MTMR10</i>	myotubularin related protein 10	-0.475	2.3E-02
230479_at	<i>EIF3F</i>	eukaryotic translation initiation factor 3, subunit F	-0.475	2.3E-02
205664_at	<i>KIN</i>	KIN, antigenic determinant of recA protein homolog (mouse)	-0.476	2.3E-02
225435_at	<i>SSRI</i>	signal sequence receptor, alpha	-0.476	2.3E-02
1559517_a_at	<i>SPIRE1</i>	spire homolog 1 (Drosophila)	-0.476	2.2E-02
209221_s_at	<i>OSBPL2</i>	oxysterol binding protein-like 2	-0.476	2.2E-02
214889_at	<i>FAM149A</i>	family with sequence similarity 149, member A	-0.476	2.2E-02
221735_at	<i>WDR48</i>	WD repeat domain 48	-0.476	2.2E-02
212631_at	<i>STX7</i>	syntaxin 7	-0.476	2.2E-02
204119_s_at	<i>ADK</i>	adenosine kinase	-0.476	2.2E-02
203627_at	<i>IGF1R</i>	insulin-like growth factor 1 receptor	-0.476	2.2E-02
212502_at	<i>ADO</i>	2-aminoethanethiol (cysteamine) dioxygenase	-0.476	2.2E-02
224614_at	<i>DYNC1L2</i>	dynein, cytoplasmic 1, light intermediate chain 2	-0.476	2.2E-02
203531_at	<i>CUL5</i>	cullin 5	-0.476	2.2E-02
203651_at	<i>ZFYVE16</i>	zinc finger, FYVE domain containing 16	-0.476	2.2E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
212170_at	<i>RBM12</i>	RNA binding motif protein 12	-0.477	2.2E-02
224835_at	<i>GPCPD1</i>	glycerophosphocholine phosphodiesterase GDE1 homolog ( <i>S. cerevisiae</i> )	-0.477	2.2E-02
227022_at	<i>GNPDA2</i>	glucosamine-6-phosphate deaminase 2	-0.477	2.2E-02
220761_s_at	<i>TAOK3</i>	TAO kinase 3	-0.477	2.2E-02
223701_s_at	<i>USP47</i>	ubiquitin specific peptidase 47	-0.477	2.2E-02
229774_at	<i>CXXC4</i>	CXXC finger protein 4	-0.477	2.2E-02
36612_at	<i>FAM168A</i>	family with sequence similarity 168, member A	-0.477	2.2E-02
210078_s_at	<i>KCNAB1</i>	potassium voltage-gated channel, shaker-related subfamily, beta member 1	-0.477	2.2E-02
226310_at	<i>RICTOR</i>	RPTOR independent companion of MTOR, complex 2	-0.477	2.2E-02
38398_at	<i>MADD</i>	MAP-kinase activating death domain	-0.477	2.2E-02
222541_at	<i>RSF1</i>	remodeling and spacing factor 1	-0.478	2.2E-02
229298_at	<i>KBTBD7</i>	kelch repeat and BTB (POZ) domain containing 7	-0.478	2.2E-02
200883_at	<i>UQCRC2</i>	ubiquinol-cytochrome c reductase core protein II	-0.478	2.2E-02
233870_at	<i>NAV1</i>	neuron navigator 1	-0.478	2.2E-02
226713_at	<i>CCDC50</i>	coiled-coil domain containing 50	-0.478	2.2E-02
219567_s_at	<i>DEMI</i>	defects in morphology 1 homolog ( <i>S. cerevisiae</i> )	-0.478	2.2E-02
221480_at	<i>HNRNPD</i>	heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA binding protein 1, 37kDa)	-0.478	2.2E-02
224764_at	<i>ARHGAP21</i>	Rho GTPase activating protein 21	-0.478	2.2E-02
222931_s_at	<i>THNSL1</i>	threonine synthase-like 1 ( <i>S. cerevisiae</i> )	-0.478	2.2E-02
200735_x_at	<i>NACA</i>	nascent polypeptide-associated complex alpha subunit	-0.478	2.2E-02
229705_at	<i>PIK3C3</i>	phosphoinositide-3-kinase, class 3	-0.478	2.2E-02
1552789_at	<i>SEC62</i>	SEC62 homolog ( <i>S. cerevisiae</i> )	-0.479	2.2E-02
214663_at	<i>DSTYK</i>	dual serine/threonine and tyrosine protein kinase	-0.479	2.2E-02
209430_at	<i>BTAF1</i>	BTAF1 RNA polymerase II, B-TFIID transcription factor-associated, 170kDa (Mot1 homolog, <i>S. cerevisiae</i> )	-0.479	2.2E-02
202922_at	<i>GCLC</i>	glutamate-cysteine ligase, catalytic subunit	-0.479	2.2E-02
219819_s_at	<i>MRPS28</i>	mitochondrial ribosomal protein S28	-0.479	2.2E-02
204635_at	<i>RPS6KA5</i>	ribosomal protein S6 kinase, 90kDa, polypeptide 5	-0.479	2.2E-02
204042_at	<i>WASF3</i>	WAS protein family, member 3	-0.479	2.2E-02
212184_s_at	<i>TAB2</i>	TGF-beta activated kinase 1/MAP3K7 binding protein 2	-0.479	2.2E-02
212735_at	<i>KIAA0226</i>	KIAA0226	-0.479	2.2E-02
230230_at	<i>PTPN4</i>	protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte)	-0.479	2.2E-02
201384_s_at	<i>NBR1</i>	neighbor of BRCA1 gene 1	-0.479	2.2E-02
216885_s_at	<i>DCAF8</i>	DDB1 and CUL4 associated factor 8	-0.479	2.2E-02
218184_at	<i>TULP4</i>	tubby like protein 4	-0.479	2.2E-02
213228_at	<i>PDE8B</i>	phosphodiesterase 8B	-0.479	2.2E-02
227026_at	<i>MPHOSPH8</i>	M-phase phosphoprotein 8	-0.479	2.2E-02
229851_s_at	<i>C11orf54</i>	chromosome 11 open reading frame 54	-0.479	2.2E-02
202261_at	<i>VPS72</i>	vacuolar protein sorting 72 homolog ( <i>S. cerevisiae</i> )	-0.480	2.2E-02
210108_at	<i>CACNAID</i>	calcium channel, voltage-dependent, L type, alpha 1D subunit	-0.480	2.2E-02
214659_x_at	<i>YLPM1</i>	YLP motif containing 1	-0.480	2.2E-02
201927_s_at	<i>PKP4</i>	plakophilin 4	-0.480	2.1E-02
200866_s_at	<i>PSAP</i>	prosaposin	-0.480	2.1E-02
222016_s_at	<i>ZNF323</i>	zinc finger protein 323	-0.480	2.1E-02
229211_at	<i>DUSP28</i>	dual specificity phosphatase 28	-0.480	2.1E-02



Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
1552790_a_at	<i>SEC62</i>	SEC62 homolog (S. cerevisiae)	-0.480	2.1E-02
203079_s_at	<i>CUL2</i>	cullin 2	-0.480	2.1E-02
214890_s_at	<i>FAM149A</i>	family with sequence similarity 149, member A	-0.480	2.1E-02
218393_s_at	<i>SMU1</i>	smu-1 suppressor of mec-8 and unc-52 homolog (C. elegans)	-0.480	2.1E-02
229940_at	<i>SETD3</i>	SET domain containing 3	-0.481	2.1E-02
210284_s_at	<i>TAB2</i>	TGF-beta activated kinase 1/MAP3K7 binding protein 2	-0.481	2.1E-02
212257_s_at	<i>SMARCA2</i>	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2	-0.481	2.1E-02
223248_at	<i>HSDL1</i>	hydroxysteroid dehydrogenase like 1	-0.481	2.1E-02
242032_at	<i>KIDINS220</i>	kinase D-interacting substrate, 220kDa	-0.481	2.1E-02
227521_at	<i>FBXO33</i>	F-box protein 33	-0.481	2.1E-02
201080_at	<i>PIP4K2B</i>	phosphatidylinositol-5-phosphate 4-kinase, type II, beta	-0.481	2.1E-02
236026_at	<i>GPATCH2</i>	G patch domain containing 2	-0.481	2.1E-02
227191_at	<i>ITFG1</i>	integrin alpha FG-GAP repeat containing 1	-0.481	2.1E-02
209750_at	<i>NR1D2</i>	nuclear receptor subfamily 1, group D, member 2	-0.481	2.1E-02
210588_x_at	<i>HNRNPH3</i>	heterogeneous nuclear ribonucleoprotein H3 (2H9)	-0.481	2.1E-02
229713_at	<i>PIP4K2A</i>	Phosphatidylinositol-5-phosphate 4-kinase, type II, alpha	-0.482	2.1E-02
229653_at	<i>VPS53</i>	vacuolar protein sorting 53 homolog (S. cerevisiae)	-0.482	2.1E-02
220841_s_at	<i>AH11</i>	Abelson helper integration site 1	-0.482	2.1E-02
211431_s_at	<i>TYRO3</i>	TYRO3 protein tyrosine kinase	-0.482	2.1E-02
201439_at	<i>GBF1</i>	golgi brefeldin A resistant guanine nucleotide exchange factor 1	-0.482	2.1E-02
204772_s_at	<i>TTF1</i>	transcription termination factor, RNA polymerase I	-0.482	2.1E-02
212914_at	<i>CBX7</i>	chromobox homolog 7	-0.482	2.1E-02
238879_at	<i>DCUN1D1</i>	DCN1, defective in cullin neddylation 1, domain containing 1 (S. cerevisiae)	-0.482	2.1E-02
1554472_a_at	<i>PHF20L1</i>	PHD finger protein 20-like 1	-0.483	2.1E-02
1555993_at	<i>CACNA1D</i>	calcium channel, voltage-dependent, L type, alpha 1D subunit	-0.483	2.1E-02
238458_at	<i>EFHA2</i>	EF-hand domain family, member A2	-0.483	2.1E-02
212688_at	<i>PIK3CB</i>	phosphoinositide-3-kinase, catalytic, beta polypeptide	-0.483	2.1E-02
222803_at	<i>PRTFDC1</i>	phosphoribosyl transferase domain containing 1	-0.483	2.1E-02
223515_s_at	<i>COQ3</i>	coenzyme Q3 homolog, methyltransferase (S. cerevisiae)	-0.483	2.1E-02
219543_at	<i>PBLD</i>	phenazine biosynthesis-like protein domain containing	-0.483	2.1E-02
221757_at	<i>PIK3IP1</i>	phosphoinositide-3-kinase interacting protein 1	-0.483	2.1E-02
226343_at	<i>DPP8</i>	dipeptidyl-peptidase 8	-0.483	2.0E-02
212982_at	<i>ZDHHC17</i>	zinc finger, DHHC-type containing 17	-0.483	2.0E-02
225900_at	<i>EXOC6B</i>	exocyst complex component 6B	-0.483	2.0E-02
200947_s_at	<i>GLUD1</i>	glutamate dehydrogenase 1	-0.484	2.0E-02
201685_s_at	<i>TOX4</i>	TOX high mobility group box family member 4	-0.484	2.0E-02
204367_at	<i>SP2</i>	Sp2 transcription factor	-0.484	2.0E-02
207724_s_at	<i>SPAST</i>	spastin	-0.484	2.0E-02
201782_s_at	<i>AIP</i>	aryl hydrocarbon receptor interacting protein	-0.484	2.0E-02
235634_at	<i>PURG</i>	purine-rich element binding protein G	-0.484	2.0E-02
202318_s_at	<i>SENPE6</i>	SUMO1/sentrin specific peptidase 6	-0.484	2.0E-02
218550_s_at	<i>LRRC20</i>	leucine rich repeat containing 20	-0.484	2.0E-02
213837_at	<i>L3MBTL1</i>	l(3)mbt-like 1 (Drosophila)	-0.484	2.0E-02
203382_s_at	<i>APOE</i>	apolipoprotein E	-0.485	2.0E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
236721_at	<i>ALKBH1</i>	alkB, alkylation repair homolog 1 (E. coli)	-0.485	2.0E-02
200684_s_at	<i>UBE2L3</i>	ubiquitin-conjugating enzyme E2L 3	-0.485	2.0E-02
207127_s_at	<i>HNRNPH3</i>	heterogeneous nuclear ribonucleoprotein H3 (2H9)	-0.485	2.0E-02
202020_s_at	<i>LANCL1</i>	LanC lantibiotic synthetase component C-like 1 (bacterial)	-0.485	2.0E-02
202073_at	<i>OPTN</i>	optineurin	-0.485	2.0E-02
228456_s_at	<i>CDS2</i>	CDP-diacylglycerol synthase (phosphatidate cytidyltransferase) 2	-0.485	2.0E-02
241469_at	<i>HFM1</i>	HFM1, ATP-dependent DNA helicase homolog (S. cerevisiae)	-0.485	2.0E-02
46270_at	<i>UBAP1</i>	ubiquitin associated protein 1	-0.485	2.0E-02
214723_x_at	<i>ANKRD36</i>	ankyrin repeat domain 36	-0.486	2.0E-02
218242_s_at	<i>SUV420H1</i>	suppressor of variegation 4-20 homolog 1 (Drosophila)	-0.486	2.0E-02
230560_at	<i>STXBP6</i>	syntaxin binding protein 6 (amisyn)	-0.486	2.0E-02
204411_at	<i>KIF21B</i>	kinesin family member 21B	-0.486	1.9E-02
229460_at	<i>FAM126B</i>	family with sequence similarity 126, member B	-0.486	1.9E-02
230329_s_at	<i>NUDT6</i>	nudix (nucleoside diphosphate linked moiety X)-type motif 6	-0.486	1.9E-02
233241_at	<i>PLK1S1</i>	polo-like kinase 1 substrate 1	-0.486	1.9E-02
218857_s_at	<i>ASRGL1</i>	asparaginase like 1	-0.486	1.9E-02
201877_s_at	<i>PPP2R5C</i>	protein phosphatase 2, regulatory subunit B', gamma	-0.487	1.9E-02
216096_s_at	<i>NRXN1</i>	neurexin 1	-0.487	1.9E-02
211034_s_at	<i>C12orf51</i>	chromosome 12 open reading frame 51	-0.487	1.9E-02
215151_at	<i>DOCK10</i>	dedicator of cytokinesis 10	-0.487	1.9E-02
218166_s_at	<i>RSF1</i>	remodeling and spacing factor 1	-0.487	1.9E-02
202361_at	<i>SEC24C</i>	SEC24 family, member C (S. cerevisiae)	-0.487	1.9E-02
221207_s_at	<i>NBEA</i>	neurobeachin	-0.487	1.9E-02
201830_s_at	<i>NET1</i>	neuroepithelial cell transforming 1	-0.487	1.9E-02
224990_at	<i>C4orf34</i>	chromosome 4 open reading frame 34	-0.487	1.9E-02
235885_at	<i>P2RY12</i>	purinergic receptor P2Y, G-protein coupled, 12	-0.487	1.9E-02
222764_at	<i>ASRGL1</i>	asparaginase like 1	-0.488	1.9E-02
228523_at	<i>NANOS1</i>	nanos homolog 1 (Drosophila)	-0.488	1.9E-02
235115_at	<i>PDE8B</i>	phosphodiesterase 8B	-0.488	1.9E-02
202033_s_at	<i>RB1CC1</i>	RB1-inducible coiled-coil 1	-0.488	1.9E-02
204137_at	<i>GPR137B</i>	G protein-coupled receptor 137B	-0.488	1.9E-02
222533_at	<i>CRBN</i>	cereblon	-0.488	1.9E-02
237408_at	<i>DCUN1D1</i>	DCN1, defective in cullin neddylation 1, domain containing 1 (S. cerevisiae)	-0.488	1.9E-02
223741_s_at	<i>TTYH2</i>	tweety homolog 2 (Drosophila)	-0.488	1.9E-02
1556695_a_at	<i>FLJ42709</i>	uncharacterized LOC441094	-0.488	1.9E-02
201800_s_at	<i>OSBP</i>	oxysterol binding protein	-0.488	1.9E-02
205895_s_at	<i>NOLC1</i>	nucleolar and coiled-body phosphoprotein 1	-0.488	1.9E-02
209234_at	<i>KIF1B</i>	kinesin family member 1B	-0.489	1.9E-02
202342_s_at	<i>TRIM2</i>	tripartite motif containing 2	-0.489	1.9E-02
226154_at	<i>DNM1L</i>	dynamamin 1-like	-0.489	1.9E-02
1555905_a_at	<i>C3orf23</i>	chromosome 3 open reading frame 23	-0.489	1.9E-02
211382_s_at	<i>TACC2</i>	transforming, acidic coiled-coil containing protein 2	-0.489	1.9E-02
214724_at	<i>DIXDC1</i>	DIX domain containing 1	-0.489	1.9E-02
205353_s_at	<i>PEBP1</i>	phosphatidylethanolamine binding protein 1	-0.489	1.9E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
236538_at	<i>GRIA2</i>	glutamate receptor, ionotropic, AMPA 2	-0.489	1.9E-02
213410_at	<i>C10orf137</i>	chromosome 10 open reading frame 137	-0.489	1.9E-02
219190_s_at	<i>EIF2C4</i>	eukaryotic translation initiation factor 2C, 4	-0.489	1.9E-02
205240_at	<i>GPSM2</i>	G-protein signaling modulator 2	-0.490	1.8E-02
224901_at	<i>SCD5</i>	stearoyl-CoA desaturase 5	-0.490	1.8E-02
236105_at	<i>ZBTB10</i>	zinc finger and BTB domain containing 10	-0.490	1.8E-02
214691_x_at	<i>FAM63B</i>	family with sequence similarity 63, member B	-0.490	1.8E-02
217848_s_at	<i>PPA1</i>	pyrophosphatase (inorganic) 1	-0.490	1.8E-02
228745_at	<i>SGTB</i>	small glutamine-rich tetratricopeptide repeat (TPR)-containing, beta	-0.490	1.8E-02
202590_s_at	<i>PDK2</i>	pyruvate dehydrogenase kinase, isozyme 2	-0.491	1.8E-02
226631_at	<i>METTL10</i>	methyltransferase like 10	-0.491	1.8E-02
213954_at	<i>FAM169A</i>	family with sequence similarity 169, member A	-0.491	1.8E-02
225781_at	<i>MAPK9</i>	mitogen-activated protein kinase 9	-0.491	1.8E-02
238649_at	<i>PITPNC1</i>	phosphatidylinositol transfer protein, cytoplasmic 1	-0.491	1.8E-02
209143_s_at	<i>CLNS1A</i>	chloride channel, nucleotide-sensitive, 1A	-0.491	1.8E-02
228471_at	<i>ANKRD44</i>	ankyrin repeat domain 44	-0.491	1.8E-02
203724_s_at	<i>RUFY3</i>	RUN and FYVE domain containing 3	-0.491	1.8E-02
236208_at	<i>MOCS2</i>	molybdenum cofactor synthesis 2	-0.491	1.8E-02
235579_at	<i>SCAF11</i>	SR-related CTD-associated factor 11	-0.491	1.8E-02
213351_s_at	<i>TMCC1</i>	transmembrane and coiled-coil domain family 1	-0.491	1.8E-02
203711_s_at	<i>HIBCH</i>	3-hydroxyisobutyryl-CoA hydrolase	-0.491	1.8E-02
200719_at	<i>SKP1</i>	S-phase kinase-associated protein 1	-0.492	1.8E-02
225330_at	<i>IGF1R</i>	insulin-like growth factor 1 receptor	-0.492	1.8E-02
241698_at	<i>RFTN2</i>	raftlin family member 2	-0.492	1.8E-02
217906_at	<i>KLHDC2</i>	kelch domain containing 2	-0.492	1.8E-02
224730_at	<i>DCAF7</i>	DDB1 and CUL4 associated factor 7	-0.492	1.8E-02
219641_at	<i>DET1</i>	de-etiolated homolog 1 (Arabidopsis)	-0.492	1.8E-02
225352_at	<i>SEC62</i>	SEC62 homolog (S. cerevisiae)	-0.492	1.8E-02
240172_at	<i>ERGIC2</i>	ERGIC and golgi 2	-0.492	1.8E-02
1554510_s_at	<i>GHITM</i>	growth hormone inducible transmembrane protein	-0.493	1.8E-02
214046_at	<i>FUT9</i>	fucosyltransferase 9 (alpha (1,3) fucosyltransferase)	-0.493	1.8E-02
225363_at	<i>PTEN</i>	phosphatase and tensin homolog	-0.493	1.8E-02
213758_at	<i>COX4II</i>	cytochrome c oxidase subunit IV isoform 1	-0.493	1.8E-02
212632_at	<i>STX7</i>	syntaxin 7	-0.493	1.8E-02
200926_at	<i>RPS23</i>	ribosomal protein S23	-0.493	1.8E-02
203849_s_at	<i>KIF1A</i>	kinesin family member 1A	-0.493	1.8E-02
223118_s_at	<i>USP47</i>	ubiquitin specific peptidase 47	-0.493	1.8E-02
228051_at	<i>KIAA1244</i>	KIAA1244	-0.493	1.8E-02
211559_s_at	<i>CCNG2</i>	cyclin G2	-0.493	1.8E-02
226022_at	<i>SASH1</i>	SAM and SH3 domain containing 1	-0.493	1.8E-02
229244_at	<i>LSAMP</i>	limbic system-associated membrane protein	-0.493	1.8E-02
204753_s_at	<i>HLF</i>	hepatic leukemia factor	-0.493	1.8E-02
219834_at	<i>ALS2CR8</i>	amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 8	-0.493	1.8E-02
243606_at	<i>NXPE3</i>	neurexophilin and PC-esterase domain family, member 3	-0.494	1.7E-02
203031_s_at	<i>UROS</i>	uroporphyrinogen III synthase	-0.494	1.7E-02
244334_at	<i>TRAMIL1</i>	translocation associated membrane protein 1-like 1	-0.494	1.7E-02
231944_at	<i>ERO1LB</i>	ERO1-like beta (S. cerevisiae)	-0.494	1.7E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
201997_s_at	<i>SPEN</i>	spen homolog, transcriptional regulator (Drosophila)	-0.495	1.7E-02
203464_s_at	<i>EPN2</i>	epsin 2	-0.495	1.7E-02
216035_x_at	<i>TCF7L2</i>	transcription factor 7-like 2 (T-cell specific, HMG-box)	-0.495	1.7E-02
228310_at	<i>ENAH</i>	enabled homolog (Drosophila)	-0.495	1.7E-02
228044_at	<i>SERP2</i>	stress-associated endoplasmic reticulum protein family member 2	-0.495	1.7E-02
239711_at	<i>ADAL</i>	adenosine deaminase-like	-0.495	1.7E-02
205152_at	<i>SLC6A1</i>	solute carrier family 6 (neurotransmitter transporter, GABA), member 1	-0.496	1.7E-02
234192_s_at	<i>GKAP1</i>	G kinase anchoring protein 1	-0.496	1.7E-02
1569108_a_at	<i>ZNF589</i>	zinc finger protein 589	-0.496	1.7E-02
238523_at	<i>KLHL36</i>	kelch-like 36 (Drosophila)	-0.496	1.7E-02
224692_at	<i>PPP1R15B</i>	protein phosphatase 1, regulatory subunit 15B	-0.496	1.7E-02
206233_at	<i>B4GALT6</i>	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 6	-0.496	1.7E-02
228108_at	<i>PPM1L</i>	protein phosphatase, Mg <sup>2+</sup> /Mn <sup>2+</sup> dependent, 1L	-0.496	1.7E-02
226259_at	<i>EXOC6</i>	exocyst complex component 6	-0.496	1.7E-02
201971_s_at	<i>ATP6V1A</i>	ATPase, H <sup>+</sup> transporting, lysosomal 70kDa, V1 subunit A	-0.497	1.6E-02
223960_s_at	<i>C16orf5</i>	chromosome 16 open reading frame 5	-0.497	1.6E-02
228547_at	<i>NRXN1</i>	neurexin 1	-0.497	1.6E-02
201218_at	<i>CTBP2</i>	C-terminal binding protein 2	-0.498	1.6E-02
239741_at	<i>PYGO1</i>	pygopus homolog 1 (Drosophila)	-0.498	1.6E-02
235378_at	<i>FAM161B</i>	family with sequence similarity 161, member B	-0.498	1.6E-02
224332_s_at	<i>MRPL43</i>	mitochondrial ribosomal protein L43	-0.498	1.6E-02
203376_at	<i>CDC40</i>	cell division cycle 40 homolog (S. cerevisiae)	-0.498	1.6E-02
213312_at	<i>C6orf162</i>	chromosome 6 open reading frame 162	-0.498	1.6E-02
225020_at	<i>DAB2IP</i>	DAB2 interacting protein	-0.498	1.6E-02
1558293_at	<i>KIAA1107</i>	KIAA1107	-0.498	1.6E-02
201372_s_at	<i>CUL3</i>	cullin 3	-0.498	1.6E-02
203860_at	<i>PCCA</i>	propionyl CoA carboxylase, alpha polypeptide	-0.498	1.6E-02
205052_at	<i>AUH</i>	AU RNA binding protein/enoyl-CoA hydratase	-0.498	1.6E-02
227584_at	<i>NAV1</i>	neuron navigator 1	-0.498	1.6E-02
231873_at	<i>BMPR2</i>	bone morphogenetic protein receptor, type II (serine/threonine kinase)	-0.498	1.6E-02
235787_at	<i>CDC37L1</i>	cell division cycle 37 homolog (S. cerevisiae)-like 1	-0.499	1.6E-02
1554789_a_at	<i>PDE8B</i>	phosphodiesterase 8B	-0.499	1.6E-02
206544_x_at	<i>SMARCA2</i>	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2	-0.499	1.6E-02
206806_at	<i>DGKI</i>	diacylglycerol kinase, iota	-0.499	1.6E-02
226155_at	<i>FAM160B1</i>	family with sequence similarity 160, member B1	-0.500	1.6E-02
225923_at	<i>VAPB</i>	VAMP (vesicle-associated membrane protein)-associated protein B and C	-0.500	1.6E-02
216044_x_at	<i>FAM69A</i>	family with sequence similarity 69, member A	-0.500	1.5E-02
223366_at	<i>ZNF704</i>	zinc finger protein 704	-0.500	1.5E-02
211006_s_at	<i>KCNBI</i>	potassium voltage-gated channel, Shab-related subfamily, member 1	-0.501	1.5E-02
208848_at	<i>ADH5</i>	alcohol dehydrogenase 5 (class III), chi polypeptide	-0.501	1.5E-02
227607_at	<i>STAMBPL1</i>	STAM binding protein-like 1	-0.501	1.5E-02
204072_s_at	<i>FRY</i>	furry homolog (Drosophila)	-0.501	1.5E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
221326_s_at	<i>TUBD1</i>	tubulin, delta 1	-0.501	1.5E-02
205562_at	<i>RPP38</i>	ribonuclease P/MRP 38kDa subunit	-0.502	1.5E-02
221012_s_at	<i>TRIM8</i>	tripartite motif containing 8	-0.502	1.5E-02
203067_at	<i>PDHX</i>	pyruvate dehydrogenase complex, component X	-0.502	1.5E-02
223604_at	<i>GARNL3</i>	GTPase activating Rap/RanGAP domain-like 3	-0.502	1.5E-02
203232_s_at	<i>ATXN1</i>	ataxin 1	-0.502	1.5E-02
212991_at	<i>FBXO9</i>	F-box protein 9	-0.502	1.5E-02
226951_at	<i>C2orf49</i>	chromosome 2 open reading frame 49	-0.502	1.5E-02
229461_x_at	<i>NEGR1</i>	neuronal growth regulator 1	-0.502	1.5E-02
229506_at	<i>PPM1L</i>	protein phosphatase, Mg <sup>2+</sup> /Mn <sup>2+</sup> dependent, 1L	-0.502	1.5E-02
206874_s_at	<i>SLK</i>	STE20-like kinase	-0.503	1.5E-02
226091_s_at	<i>MRFAP1</i>	Morf4 family associated protein 1	-0.503	1.5E-02
1556062_at	<i>RPP30</i>	ribonuclease P/MRP 30kDa subunit	-0.503	1.5E-02
211569_s_at	<i>HADH</i>	hydroxyacyl-CoA dehydrogenase	-0.503	1.5E-02
229687_s_at	<i>PRDM11</i>	PR domain containing 11	-0.503	1.5E-02
205878_at	<i>POU6F1</i>	POU class 6 homeobox 1	-0.503	1.5E-02
205006_s_at	<i>NMT2</i>	N-myristoyltransferase 2	-0.503	1.5E-02
209459_s_at	<i>ABAT</i>	4-aminobutyrate aminotransferase	-0.503	1.5E-02
209470_s_at	<i>GPM6A</i>	glycoprotein M6A	-0.503	1.5E-02
229355_at	<i>UBE2D3</i>	ubiquitin-conjugating enzyme E2D 3	-0.504	1.5E-02
228886_at	<i>LRRC27</i>	leucine rich repeat containing 27	-0.504	1.5E-02
205528_s_at	<i>RUNX1T1</i>	runt-related transcription factor 1; translocated to, 1 (cyclin D-related)	-0.504	1.5E-02
209236_at	<i>SLC23A2</i>	solute carrier family 23 (nucleobase transporters), member 2	-0.504	1.5E-02
203037_s_at	<i>MTSS1</i>	metastasis suppressor 1	-0.504	1.5E-02
208770_s_at	<i>EIF4EBP2</i>	eukaryotic translation initiation factor 4E binding protein 2	-0.504	1.5E-02
214553_s_at	<i>ARPP19</i>	cAMP-regulated phosphoprotein, 19kDa	-0.504	1.4E-02
201370_s_at	<i>CUL3</i>	cullin 3	-0.505	1.4E-02
209390_at	<i>TSC1</i>	tuberous sclerosis 1	-0.505	1.4E-02
217771_at	<i>GOLM1</i>	golgi membrane protein 1	-0.505	1.4E-02
225958_at	<i>PHC1</i>	polyhomeotic homolog 1 (Drosophila)	-0.505	1.4E-02
228120_at	<i>EIF2C1</i>	eukaryotic translation initiation factor 2C, 1	-0.505	1.4E-02
209700_x_at	<i>PDE4DIP</i>	phosphodiesterase 4D interacting protein	-0.505	1.4E-02
213701_at	<i>C12orf29</i>	chromosome 12 open reading frame 29	-0.505	1.4E-02
225989_at	<i>HERC4</i>	HECT and RLD domain containing E3 ubiquitin protein ligase 4	-0.506	1.4E-02
208741_at	<i>SAP18</i>	Sin3A-associated protein, 18kDa	-0.506	1.4E-02
218597_s_at	<i>CISD1</i>	CDGSH iron sulfur domain 1	-0.506	1.4E-02
204755_x_at	<i>HLF</i>	hepatic leukemia factor	-0.506	1.4E-02
209407_s_at	<i>DEAF1</i>	deformed epidermal autoregulatory factor 1 (Drosophila)	-0.506	1.4E-02
218352_at	<i>RCBTB1</i>	regulator of chromosome condensation (RCC1) and BTB (POZ) domain containing protein 1	-0.506	1.4E-02
228569_at	<i>PAPOLA</i>	poly(A) polymerase alpha	-0.506	1.4E-02
238479_at	<i>DCUNID5</i>	DCN1, defective in cullin neddylation 1, domain containing 5 ( <i>S. cerevisiae</i> )	-0.506	1.4E-02
40612_at	<i>DOPEY1</i>	dopey family member 1	-0.506	1.4E-02
228018_at	<i>NKAIN4</i>	Na <sup>+</sup> /K <sup>+</sup> transporting ATPase interacting 4	-0.507	1.4E-02
236703_at	<i>NT5C2</i>	5'-nucleotidase, cytosolic II	-0.508	1.4E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
212461_at	<i>AZIN1</i>	antizyme inhibitor 1	-0.508	1.4E-02
229969_at	<i>SEC63</i>	SEC63 homolog (S. cerevisiae)	-0.508	1.4E-02
235344_at	<i>PPM1A</i>	protein phosphatase, Mg <sup>2+</sup> /Mn <sup>2+</sup> dependent, 1A	-0.508	1.4E-02
236855_at	<i>C10orf85</i>	chromosome 10 open reading frame 85	-0.508	1.4E-02
221796_at	<i>NTRK2</i>	neurotrophic tyrosine kinase, receptor, type 2	-0.508	1.3E-02
205231_s_at	<i>EPM2A</i>	epilepsy, progressive myoclonus type 2A, Lafora disease (laforin)	-0.509	1.3E-02
203244_at	<i>PEX5</i>	peroxisomal biogenesis factor 5	-0.509	1.3E-02
207974_s_at	<i>SKP1</i>	S-phase kinase-associated protein 1	-0.509	1.3E-02
221858_at	<i>TBC1D12</i>	TBC1 domain family, member 12	-0.509	1.3E-02
204421_s_at	<i>FGF2</i>	fibroblast growth factor 2 (basic)	-0.509	1.3E-02
222544_s_at	<i>WHSC1L1</i>	Wolf-Hirschhorn syndrome candidate 1-like 1	-0.509	1.3E-02
227433_at	<i>KIAA2018</i>	KIAA2018	-0.509	1.3E-02
209249_s_at	<i>GHITM</i>	growth hormone inducible transmembrane protein	-0.510	1.3E-02
213035_at	<i>ANKRD28</i>	ankyrin repeat domain 28	-0.510	1.3E-02
219770_at	<i>GTDC1</i>	glycosyltransferase-like domain containing 1	-0.510	1.3E-02
201991_s_at	<i>KIF5B</i>	kinesin family member 5B	-0.510	1.3E-02
209839_at	<i>DNM3</i>	dynammin 3	-0.510	1.3E-02
212361_s_at	<i>ATP2A2</i>	ATPase, Ca <sup>++</sup> transporting, cardiac muscle, slow twitch 2	-0.510	1.3E-02
213314_at	<i>C6orf162</i>	chromosome 6 open reading frame 162	-0.510	1.3E-02
214736_s_at	<i>ADD1</i>	adducin 1 (alpha)	-0.510	1.3E-02
213375_s_at	<i>N4BP2L1</i>	NEDD4 binding protein 2-like 1	-0.510	1.3E-02
202813_at	<i>TARBP1</i>	TAR (HIV-1) RNA binding protein 1	-0.511	1.3E-02
213939_s_at	<i>RUFY3</i>	RUN and FYVE domain containing 3	-0.511	1.3E-02
205358_at	<i>GRIA2</i>	glutamate receptor, ionotropic, AMPA 2	-0.511	1.3E-02
209084_s_at	<i>RAB28</i>	RAB28, member RAS oncogene family	-0.511	1.3E-02
244680_at	<i>GLRB</i>	glycine receptor, beta	-0.511	1.3E-02
207757_at	<i>ZFP2</i>	zinc finger protein 2 homolog (mouse)	-0.511	1.3E-02
220488_s_at	<i>BCAS3</i>	breast carcinoma amplified sequence 3	-0.512	1.3E-02
205330_at	<i>MNI</i>	meningioma (disrupted in balanced translocation) 1	-0.512	1.3E-02
230298_at	<i>MBLAC2</i>	metallo-beta-lactamase domain containing 2	-0.512	1.3E-02
236935_at	<i>PTPN4</i>	protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte)	-0.512	1.3E-02
208671_at	<i>SERINC1</i>	serine incorporator 1	-0.512	1.3E-02
1552426_a_at	<i>TM2D3</i>	TM2 domain containing 3	-0.512	1.3E-02
226018_at	<i>C7orf41</i>	chromosome 7 open reading frame 41	-0.512	1.3E-02
242224_at	<i>GPATCH2</i>	G patch domain containing 2	-0.512	1.3E-02
225009_at	<i>CMTM4</i>	CKLF-like MARVEL transmembrane domain containing 4	-0.512	1.3E-02
201781_s_at	<i>AIP</i>	aryl hydrocarbon receptor interacting protein	-0.512	1.3E-02
207103_at	<i>KCND2</i>	potassium voltage-gated channel, Shal-related subfamily, member 2	-0.513	1.3E-02
210995_s_at	<i>TRIM23</i>	tripartite motif containing 23	-0.513	1.3E-02
200787_s_at	<i>PEA15</i>	phosphoprotein enriched in astrocytes 15	-0.513	1.3E-02
227809_at	<i>ZC3H6</i>	zinc finger CCCH-type containing 6	-0.513	1.3E-02
203381_s_at	<i>APOE</i>	apolipoprotein E	-0.513	1.2E-02
1558934_a_at	<i>GTF2H5</i>	general transcription factor IIIH, polypeptide 5	-0.513	1.2E-02
227930_at	<i>EIF2C4</i>	eukaryotic translation initiation factor 2C, 4	-0.513	1.2E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
202386_s_at	<i>KIAA0430</i>	KIAA0430	-0.514	1.2E-02
212310_at	<i>MIA3</i>	melanoma inhibitory activity family, member 3	-0.514	1.2E-02
244623_at	<i>KCNQ5</i>	potassium voltage-gated channel, KQT-like subfamily, member 5	-0.514	1.2E-02
203006_at	<i>INPP5A</i>	inositol polyphosphate-5-phosphatase, 40kDa	-0.514	1.2E-02
229664_at	<i>MAPK8</i>	mitogen-activated protein kinase 8	-0.514	1.2E-02
238803_at	<i>HECTD2</i>	HECT domain containing E3 ubiquitin protein ligase 2	-0.515	1.2E-02
231840_x_at	<i>LYRM7</i>	Lyrm7 homolog (mouse)	-0.515	1.2E-02
226140_s_at	<i>OTUD1</i>	OTU domain containing 1	-0.515	1.2E-02
214157_at	<i>GNAS</i>	GNAS complex locus	-0.515	1.2E-02
200747_s_at	<i>NUMA1</i>	nuclear mitotic apparatus protein 1	-0.515	1.2E-02
213623_at	<i>KIF3A</i>	kinesin family member 3A	-0.516	1.2E-02
213309_at	<i>PLCL2</i>	phospholipase C-like 2	-0.516	1.2E-02
210878_s_at	<i>KDM3B</i>	lysine (K)-specific demethylase 3B	-0.516	1.2E-02
205529_s_at	<i>RUNX1T1</i>	runt-related transcription factor 1; translocated to, 1 (cyclin D-related)	-0.516	1.2E-02
212677_s_at	<i>CEP68</i>	centrosomal protein 68kDa	-0.516	1.2E-02
201706_s_at	<i>PEX19</i>	peroxisomal biogenesis factor 19	-0.516	1.2E-02
235333_at	<i>B4GALT6</i>	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 6	-0.516	1.2E-02
224820_at	<i>COX20</i>	COX20 Cox2 chaperone homolog (S. cerevisiae)	-0.517	1.2E-02
212678_at	<i>NF1</i>	neurofibromin 1	-0.517	1.2E-02
212111_at	<i>STX12</i>	syntaxin 12	-0.517	1.2E-02
229655_at	<i>FAM19A5</i>	family with sequence similarity 19 (chemokine (C-C motif)-like), member A5	-0.517	1.2E-02
204062_s_at	<i>ULK2</i>	unc-51-like kinase 2 (C. elegans)	-0.517	1.2E-02
227536_at	<i>ZC3H13</i>	zinc finger CCCH-type containing 13	-0.517	1.2E-02
229958_at	<i>CLN8</i>	ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental retardation)	-0.517	1.2E-02
209112_at	<i>CDKN1B</i>	cyclin-dependent kinase inhibitor 1B (p27, Kip1)	-0.517	1.2E-02
212943_at	<i>KIAA0528</i>	KIAA0528	-0.517	1.2E-02
224215_s_at	<i>DLL1</i>	delta-like 1 (Drosophila)	-0.517	1.2E-02
222111_at	<i>FAM63B</i>	family with sequence similarity 63, member B	-0.518	1.1E-02
208953_at	<i>LARP4B</i>	La ribonucleoprotein domain family, member 4B	-0.518	1.1E-02
212990_at	<i>SYNJI</i>	synaptojanin 1	-0.518	1.1E-02
229459_at	<i>FAM19A5</i>	family with sequence similarity 19 (chemokine (C-C motif)-like), member A5	-0.518	1.1E-02
230029_x_at	<i>UBR3</i>	ubiquitin protein ligase E3 component n-recognin 3 (putative)	-0.518	1.1E-02
1554806_a_at	<i>FBXO8</i>	F-box protein 8	-0.519	1.1E-02
211376_s_at	<i>NSMCE4A</i>	non-SMC element 4 homolog A (S. cerevisiae)	-0.519	1.1E-02
213352_at	<i>TMCC1</i>	transmembrane and coiled-coil domain family 1	-0.519	1.1E-02
223536_at	<i>PSD2</i>	pleckstrin and Sec7 domain containing 2	-0.519	1.1E-02
212757_s_at	<i>CAMK2G</i>	calcium/calmodulin-dependent protein kinase II gamma	-0.519	1.1E-02
214680_at	<i>NTRK2</i>	neurotrophic tyrosine kinase, receptor, type 2	-0.520	1.1E-02
235494_at	<i>LSAMP</i>	limbic system-associated membrane protein	-0.520	1.1E-02
202777_at	<i>SHOC2</i>	soc-2 suppressor of clear homolog (C. elegans)	-0.520	1.1E-02
230826_at	<i>MMD2</i>	monocyte to macrophage differentiation-associated 2	-0.520	1.1E-02
227094_at	<i>DHTKD1</i>	dehydrogenase E1 and transketolase domain containing 1	-0.520	1.1E-02
235048_at	<i>FAM169A</i>	family with sequence similarity 169, member A	-0.520	1.1E-02

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
200940_s_at	<i>RERE</i>	arginine-glutamic acid dipeptide (RE) repeats	-0.520	1.1E-02
214735_at	<i>IPCEF1</i>	interaction protein for cytohesin exchange factors 1	-0.520	1.1E-02
228446_at	<i>KIAA2026</i>	KIAA2026	-0.520	1.1E-02
223281_s_at	<i>COX15</i>	COX15 homolog, cytochrome c oxidase assembly protein (yeast)	-0.521	1.1E-02
238955_at	<i>RFTN2</i>	raftlin family member 2	-0.521	1.1E-02
211937_at	<i>EIF4B</i>	eukaryotic translation initiation factor 4B	-0.521	1.1E-02
228680_at	<i>KIF3A</i>	kinesin family member 3A	-0.521	1.1E-02
212850_s_at	<i>LRP4</i>	low density lipoprotein receptor-related protein 4	-0.522	1.1E-02
226520_at	<i>LCOR</i>	ligand dependent nuclear receptor corepressor	-0.522	1.1E-02
225497_at	<i>ATE1</i>	arginyltransferase 1	-0.522	1.1E-02
228916_at	<i>CWF19L2</i>	CWF19-like 2, cell cycle control (S. pombe)	-0.522	1.1E-02
1561394_s_at	<i>KIAA1755</i>	KIAA1755	-0.523	1.1E-02
224366_s_at	<i>REPS1</i>	RALBP1 associated Eps domain containing 1	-0.523	1.1E-02
224150_s_at	<i>CEP70</i>	centrosomal protein 70kDa	-0.523	1.1E-02
216195_at	<i>ANK2</i>	ankyrin 2, neuronal	-0.523	1.0E-02
227896_at	<i>BCCIP</i>	BRCA2 and CDKN1A interacting protein	-0.523	1.0E-02
202259_s_at	<i>N4BP2L2</i>	NEDD4 binding protein 2-like 2	-0.523	1.0E-02
206183_s_at	<i>HERC3</i>	HECT and RLD domain containing E3 ubiquitin protein ligase 3	-0.523	1.0E-02
224946_s_at	<i>CCDC115</i>	coiled-coil domain containing 115	-0.524	1.0E-02
227978_s_at	<i>ZADH2</i>	zinc binding alcohol dehydrogenase domain containing 2	-0.524	1.0E-02
1565681_s_at	<i>DIP2C</i>	DIP2 disco-interacting protein 2 homolog C (Drosophila)	-0.524	1.0E-02
213133_s_at	<i>GCSH</i>	glycine cleavage system protein H (aminomethyl carrier)	-0.524	1.0E-02
207232_s_at	<i>DZIP3</i>	DAZ interacting protein 3, zinc finger	-0.524	1.0E-02
227112_at	<i>TMCC1</i>	transmembrane and coiled-coil domain family 1	-0.525	1.0E-02
211662_s_at	<i>VDAC2</i>	voltage-dependent anion channel 2	-0.525	1.0E-02
223059_s_at	<i>FAM107B</i>	family with sequence similarity 107, member B	-0.525	1.0E-02
244008_at	<i>PARP8</i>	poly (ADP-ribose) polymerase family, member 8	-0.525	1.0E-02
225066_at	<i>PPP2R2D</i>	protein phosphatase 2, regulatory subunit B, delta	-0.525	1.0E-02
226623_at	<i>PHYHIPL</i>	phytanoyl-CoA 2-hydroxylase interacting protein-like	-0.525	9.9E-03
232341_x_at	<i>HABP4</i>	hyaluronan binding protein 4	-0.525	9.9E-03
231856_at	<i>KIAA1244</i>	KIAA1244	-0.526	9.9E-03
61297_at	<i>CASKIN2</i>	CASK interacting protein 2	-0.526	9.9E-03
212409_s_at	<i>TOR1AIP1</i>	torsin A interacting protein 1	-0.526	9.9E-03
226151_x_at	<i>CRYZL1</i>	crystallin, zeta (quinone reductase)-like 1	-0.526	9.9E-03
208943_s_at	<i>SEC62</i>	SEC62 homolog (S. cerevisiae)	-0.526	9.9E-03
222983_s_at	<i>PAIP2</i>	poly(A) binding protein interacting protein 2	-0.526	9.9E-03
203146_s_at	<i>GABBR1</i>	gamma-aminobutyric acid (GABA) B receptor, 1	-0.526	9.9E-03
221699_s_at	<i>DDX50</i>	DEAD (Asp-Glu-Ala-Asp) box polypeptide 50	-0.526	9.9E-03
203420_at	<i>FAM8A1</i>	family with sequence similarity 8, member A1	-0.526	9.9E-03
210554_s_at	<i>CTBP2</i>	C-terminal binding protein 2	-0.526	9.9E-03
228170_at	<i>OLIG1</i>	oligodendrocyte transcription factor 1	-0.526	9.9E-03
223046_at	<i>EGLN1</i>	egl nine homolog 1 (C. elegans)	-0.527	9.8E-03
213392_at	<i>IQCK</i>	IQ motif containing K	-0.527	9.8E-03
203526_s_at	<i>APC</i>	adenomatous polyposis coli	-0.527	9.7E-03
229648_at	<i>ARHGAP32</i>	Rho GTPase activating protein 32	-0.527	9.7E-03
209915_s_at	<i>NRXN1</i>	neurexin 1	-0.527	9.6E-03
227257_s_at	<i>CACUL1</i>	CDK2-associated, cullin domain 1	-0.527	9.6E-03



Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
1557950_at	<i>NEMF</i>	nuclear export mediator factor	-0.527	9.6E-03
218142_s_at	<i>CRBN</i>	cereblon	-0.528	9.6E-03
63305_at	<i>PKNOX2</i>	PBX/knotted 1 homeobox 2	-0.528	9.6E-03
212765_at	<i>CAMSAP2</i>	calmodulin regulated spectrin-associated protein family, member 2	-0.528	9.5E-03
223412_at	<i>KBTBD7</i>	kelch repeat and BTB (POZ) domain containing 7	-0.528	9.5E-03
228380_at	<i>SEN2</i>	SUMO1/sentrin/SMT3 specific peptidase 2	-0.528	9.5E-03
221498_at	<i>SNX27</i>	sorting nexin family member 27	-0.528	9.5E-03
202630_at	<i>APPBP2</i>	amyloid beta precursor protein (cytoplasmic tail) binding protein 2	-0.528	9.5E-03
209702_at	<i>FTO</i>	fat mass and obesity associated	-0.528	9.5E-03
204156_at	<i>SIK3</i>	SIK family kinase 3	-0.528	9.5E-03
227132_at	<i>ZNF706</i>	zinc finger protein 706	-0.528	9.5E-03
228841_at	<i>LYRM7</i>	Lym7 homolog (mouse)	-0.528	9.5E-03
1557370_s_at	<i>MYCBP2</i>	MYC binding protein 2, E3 ubiquitin protein ligase	-0.529	9.3E-03
204021_s_at	<i>PURA</i>	purine-rich element binding protein A	-0.529	9.3E-03
202319_at	<i>SEN6</i>	SUMO1/sentrin specific peptidase 6	-0.529	9.3E-03
227251_at	<i>DCAF5</i>	DDB1 and CUL4 associated factor 5	-0.529	9.3E-03
201829_at	<i>NET1</i>	neuroepithelial cell transforming 1	-0.529	9.3E-03
213362_at	<i>PTPRD</i>	protein tyrosine phosphatase, receptor type, D	-0.530	9.3E-03
214790_at	<i>SEN6</i>	SUMO1/sentrin specific peptidase 6	-0.530	9.3E-03
213922_at	<i>TTBK2</i>	tau tubulin kinase 2	-0.530	9.2E-03
1554627_a_at	<i>ASCC1</i>	activating signal cointegrator 1 complex subunit 1	-0.530	9.2E-03
233919_s_at	<i>HABP4</i>	hyaluronan binding protein 4	-0.530	9.2E-03
235309_at	<i>RPS15A</i>	ribosomal protein S15a	-0.530	9.2E-03
200946_x_at	<i>GLUD1</i>	glutamate dehydrogenase 1	-0.530	9.2E-03
38892_at	<i>KIAA0240</i>	KIAA0240	-0.530	9.1E-03
203249_at	<i>EZH1</i>	enhancer of zeste homolog 1 (Drosophila)	-0.531	9.1E-03
203839_s_at	<i>TNK2</i>	tyrosine kinase, non-receptor, 2	-0.531	9.0E-03
221430_s_at	<i>RNF146</i>	ring finger protein 146	-0.531	9.0E-03
212530_at	<i>NEK7</i>	NIMA (never in mitosis gene a)-related kinase 7	-0.531	9.0E-03
1553765_a_at	<i>KLHL32</i>	kelch-like 32 (Drosophila)	-0.531	8.9E-03
227416_s_at	<i>ZCRB1</i>	zinc finger CCHC-type and RNA binding motif 1	-0.532	8.9E-03
222737_s_at	<i>BRD7</i>	bromodomain containing 7	-0.532	8.9E-03
223119_s_at	<i>USP47</i>	ubiquitin specific peptidase 47	-0.532	8.9E-03
225658_at	<i>SPOPL</i>	speckle-type POZ protein-like	-0.532	8.9E-03
1555141_a_at	<i>SLC9B1</i>	solute carrier family 9, subfamily B (NHA1, cation proton antiporter 1), member 1	-0.532	8.8E-03
232136_s_at	<i>CTTNBP2</i>	cortactin binding protein 2	-0.532	8.8E-03
215785_s_at	<i>CYFIP2</i>	cytoplasmic FMR1 interacting protein 2	-0.532	8.8E-03
241739_at	<i>OGFOD1</i>	2-oxoglutarate and iron-dependent oxygenase domain containing 1	-0.533	8.7E-03
209066_x_at	<i>UQCRB</i>	ubiquinol-cytochrome c reductase binding protein	-0.533	8.7E-03
211600_at	<i>PTPRO</i>	protein tyrosine phosphatase, receptor type, O	-0.533	8.7E-03
214318_s_at	<i>FRY</i>	furry homolog (Drosophila)	-0.533	8.7E-03
209257_s_at	<i>SMC3</i>	structural maintenance of chromosomes 3	-0.533	8.7E-03
204633_s_at	<i>RPS6KA5</i>	ribosomal protein S6 kinase, 90kDa, polypeptide 5	-0.533	8.7E-03
222516_at	<i>AP3M1</i>	adaptor-related protein complex 3, mu 1 subunit	-0.533	8.7E-03
225429_at	<i>PPP6C</i>	protein phosphatase 6, catalytic subunit	-0.534	8.6E-03

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
212455_at	<i>YTHDC1</i>	YTH domain containing 1	-0.534	8.6E-03
212609_s_at	<i>AKT3</i>	v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)	-0.534	8.6E-03
224998_at	<i>CMTM4</i>	CKLF-like MARVEL transmembrane domain containing 4	-0.534	8.6E-03
226748_at	<i>LYSMD2</i>	LysM, putative peptidoglycan-binding, domain containing 2	-0.534	8.6E-03
214787_at	<i>DENND4A</i>	DENN/MADD domain containing 4A	-0.534	8.6E-03
228062_at	<i>NAPIL5</i>	nucleosome assembly protein 1-like 5	-0.534	8.5E-03
244293_at	<i>UQCRCB</i>	ubiquinol-cytochrome c reductase binding protein	-0.535	8.5E-03
238490_at	<i>KIAA2026</i>	KIAA2026	-0.535	8.4E-03
225915_at	<i>CAB39L</i>	calcium binding protein 39-like	-0.535	8.3E-03
228561_at	<i>CDC37L1</i>	cell division cycle 37 homolog (S. cerevisiae)-like 1	-0.535	8.3E-03
209582_s_at	<i>CD200</i>	CD200 molecule	-0.535	8.3E-03
212880_at	<i>WDR7</i>	WD repeat domain 7	-0.535	8.3E-03
242569_at	<i>STAM2</i>	signal transducing adaptor molecule (SH3 domain and ITAM motif) 2	-0.535	8.3E-03
219279_at	<i>DOCK10</i>	dedicator of cytokinesis 10	-0.536	8.2E-03
207091_at	<i>P2RX7</i>	purinergic receptor P2X, ligand-gated ion channel, 7	-0.536	8.1E-03
212306_at	<i>CLASP2</i>	cytoplasmic linker associated protein 2	-0.537	8.1E-03
218970_s_at	<i>CUTC</i>	cutC copper transporter homolog (E. coli)	-0.537	8.1E-03
223438_s_at	<i>PPARA</i>	peroxisome proliferator-activated receptor alpha	-0.537	8.1E-03
204762_s_at	<i>GNAO1</i>	guanine nucleotide binding protein (G protein), alpha activating activity polypeptide O	-0.537	8.1E-03
227599_at	<i>MB21D2</i>	Mab-21 domain containing 2	-0.537	8.1E-03
228376_at	<i>GGTAIP</i>	glycoprotein, alpha-galactosyltransferase 1 pseudogene	-0.537	8.1E-03
235024_at	<i>PHF17</i>	PHD finger protein 17	-0.537	8.1E-03
235264_at	<i>HCFC2</i>	host cell factor C2	-0.537	8.1E-03
228063_s_at	<i>NAPIL5</i>	nucleosome assembly protein 1-like 5	-0.537	8.0E-03
202079_s_at	<i>TRAK1</i>	trafficking protein, kinesin binding 1	-0.537	8.0E-03
230056_at	<i>BPTF</i>	bromodomain PHD finger transcription factor	-0.537	8.0E-03
230942_at	<i>CMTM5</i>	CKLF-like MARVEL transmembrane domain containing 5	-0.538	8.0E-03
231358_at	<i>MRO</i>	maestro	-0.538	8.0E-03
211203_s_at	<i>CNTN1</i>	contactin 1	-0.538	8.0E-03
202742_s_at	<i>PRKACB</i>	protein kinase, cAMP-dependent, catalytic, beta	-0.538	8.0E-03
204284_at	<i>PPP1R3C</i>	protein phosphatase 1, regulatory subunit 3C	-0.538	8.0E-03
210471_s_at	<i>KCNAB1</i>	potassium voltage-gated channel, shaker-related subfamily, beta member 1	-0.538	8.0E-03
225334_at	<i>C10orf32</i>	chromosome 10 open reading frame 32	-0.538	8.0E-03
226500_at	<i>ZBTB47</i>	zinc finger and BTB domain containing 47	-0.538	8.0E-03
244783_at	<i>YAF2</i>	YY1 associated factor 2	-0.539	7.9E-03
1569107_s_at	<i>ZNF642</i>	zinc finger protein 642	-0.539	7.9E-03
222517_at	<i>AP3M1</i>	adaptor-related protein complex 3, mu 1 subunit	-0.539	7.9E-03
207797_s_at	<i>LRP2BP</i>	LRP2 binding protein	-0.539	7.8E-03
225048_at	<i>PHF10</i>	PHD finger protein 10	-0.539	7.8E-03
211383_s_at	<i>WDR37</i>	WD repeat domain 37	-0.539	7.8E-03
225884_s_at	<i>GZFI</i>	GDNF-inducible zinc finger protein 1	-0.539	7.8E-03
202011_at	<i>TJPI</i>	tight junction protein 1 (zona occludens 1)	-0.540	7.7E-03
212928_at	<i>TSPYL4</i>	TSPY-like 4	-0.540	7.7E-03

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
225886_at	<i>DDX5</i>	DEAD (Asp-Glu-Ala-Asp) box helicase 5	-0.540	7.7E-03
209300_s_at	<i>NECAP1</i>	NECAP endocytosis associated 1	-0.540	7.7E-03
210110_x_at	<i>HNRNPH3</i>	heterogeneous nuclear ribonucleoprotein H3 (2H9)	-0.540	7.7E-03
225086_at	<i>FAM98B</i>	family with sequence similarity 98, member B	-0.540	7.7E-03
1552727_s_at	<i>ADAMTS17</i>	ADAM metallopeptidase with thrombospondin type 1 motif, 17	-0.540	7.7E-03
203188_at	<i>B3GNT1</i>	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 1	-0.540	7.7E-03
230821_at	<i>ZNF148</i>	zinc finger protein 148	-0.540	7.7E-03
1563475_s_at	<i>METTL20</i>	methyltransferase like 20	-0.541	7.7E-03
221082_s_at	<i>NDRG3</i>	NDRG family member 3	-0.541	7.6E-03
205420_at	<i>PEX7</i>	peroxisomal biogenesis factor 7	-0.541	7.6E-03
226855_at	<i>PDP2</i>	pyruvate dehydrogenase phosphatase catalytic subunit 2	-0.541	7.6E-03
235405_at	<i>GSTA4</i>	glutathione S-transferase alpha 4	-0.541	7.6E-03
201335_s_at	<i>ARHGEF12</i>	Rho guanine nucleotide exchange factor (GEF) 12	-0.541	7.6E-03
215992_s_at	<i>RAPGEF2</i>	Rap guanine nucleotide exchange factor (GEF) 2	-0.542	7.5E-03
218723_s_at	<i>RGCC</i>	regulator of cell cycle	-0.542	7.5E-03
226234_at	<i>GDF11</i>	growth differentiation factor 11	-0.542	7.5E-03
208611_s_at	<i>SPTAN1</i>	spectrin, alpha, non-erythrocytic 1	-0.542	7.4E-03
208732_at	<i>RAB2A</i>	RAB2A, member RAS oncogene family	-0.542	7.4E-03
238794_at	<i>SFR1</i>	SWI5-dependent recombination repair 1	-0.542	7.4E-03
226751_at	<i>CNRIP1</i>	cannabinoid receptor interacting protein 1	-0.543	7.4E-03
219800_s_at	<i>THNSL1</i>	threonine synthase-like 1 (S. cerevisiae)	-0.543	7.3E-03
212079_s_at	<i>MLL</i>	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila)	-0.543	7.3E-03
213266_at	<i>TUBGCP4</i>	Tubulin, gamma complex associated protein 4	-0.543	7.3E-03
235111_at	<i>LSAMP</i>	limbic system-associated membrane protein	-0.543	7.3E-03
221922_at	<i>GPSM2</i>	G-protein signaling modulator 2	-0.543	7.3E-03
212760_at	<i>UBR2</i>	ubiquitin protein ligase E3 component n-recognin 2	-0.544	7.2E-03
228581_at	<i>KCNJ10</i>	potassium inwardly-rectifying channel, subfamily J, member 10	-0.544	7.2E-03
201174_s_at	<i>TERF2IP</i>	telomeric repeat binding factor 2, interacting protein	-0.544	7.2E-03
220391_at	<i>ZBTB3</i>	zinc finger and BTB domain containing 3	-0.544	7.2E-03
212693_at	<i>MDN1</i>	MDN1, midasin homolog (yeast)	-0.544	7.2E-03
1555469_a_at	<i>CLASP2</i>	cytoplasmic linker associated protein 2	-0.544	7.2E-03
219049_at	<i>CSGALNACT1</i>	chondroitin sulfate N-acetylgalactosaminyltransferase 1	-0.544	7.1E-03
212425_at	<i>SCAMP1</i>	secretory carrier membrane protein 1	-0.544	7.1E-03
240806_at	<i>RPL15</i>	Ribosomal protein L15	-0.544	7.1E-03
228218_at	<i>LSAMP</i>	limbic system-associated membrane protein	-0.545	7.1E-03
228228_at	<i>DACT3</i>	dapper, antagonist of beta-catenin, homolog 3 (Xenopus laevis)	-0.545	7.1E-03
212793_at	<i>DAAM2</i>	dishevelled associated activator of morphogenesis 2	-0.545	7.1E-03
1569349_at	<i>C11orf30</i>	chromosome 11 open reading frame 30	-0.545	7.1E-03
235635_at	<i>ARHGAP5</i>	Rho GTPase activating protein 5	-0.545	7.1E-03
208666_s_at	<i>STI3</i>	suppression of tumorigenicity 13 (colon carcinoma) (Hsp70 interacting protein)	-0.545	7.0E-03
211475_s_at	<i>BAG1</i>	BCL2-associated athanogene	-0.545	7.0E-03
242255_at	<i>WDR37</i>	WD repeat domain 37	-0.545	7.0E-03
228906_at	<i>TET1</i>	tet methylcytosine dioxygenase 1	-0.546	7.0E-03
229676_at	<i>MTPAP</i>	Mitochondrial poly(A) polymerase	-0.546	7.0E-03

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
229414_at	<i>PITPNC1</i>	phosphatidylinositol transfer protein, cytoplasmic 1	-0.546	7.0E-03
210625_s_at	<i>AKAP1</i>	A kinase (PRKA) anchor protein 1	-0.546	7.0E-03
212731_at	<i>ANKRD46</i>	ankyrin repeat domain 46	-0.546	7.0E-03
226779_at	<i>LMBRD2</i>	LMBR1 domain containing 2	-0.546	7.0E-03
204476_s_at	<i>PC</i>	pyruvate carboxylase	-0.546	7.0E-03
212719_at	<i>PHLPP1</i>	PH domain and leucine rich repeat protein phosphatase 1	-0.546	7.0E-03
239024_at	<i>ZNF148</i>	zinc finger protein 148	-0.546	7.0E-03
214251_s_at	<i>NUMA1</i>	nuclear mitotic apparatus protein 1	-0.547	6.9E-03
225729_at	<i>C6orf89</i>	chromosome 6 open reading frame 89	-0.547	6.9E-03
209002_s_at	<i>CALCOCO1</i>	calcium binding and coiled-coil domain 1	-0.547	6.9E-03
219547_at	<i>COX15</i>	COX15 homolog, cytochrome c oxidase assembly protein (yeast)	-0.547	6.9E-03
202650_s_at	<i>KIAA0195</i>	KIAA0195	-0.547	6.9E-03
211951_at	<i>NOLC1</i>	nucleolar and coiled-body phosphoprotein 1	-0.548	6.8E-03
223507_at	<i>CLPX</i>	ClpX caseinolytic peptidase X homolog (E. coli)	-0.548	6.8E-03
201711_x_at	<i>RANBP2</i>	RAN binding protein 2	-0.548	6.8E-03
1554767_s_at	<i>CRYZL1</i>	crystallin, zeta (quinone reductase)-like 1	-0.548	6.8E-03
209111_at	<i>RNF5</i>	ring finger protein 5, E3 ubiquitin protein ligase	-0.548	6.7E-03
209916_at	<i>DHTKD1</i>	dehydrogenase E1 and transketolase domain containing 1	-0.548	6.7E-03
207093_s_at	<i>OMG</i>	oligodendrocyte myelin glycoprotein	-0.548	6.7E-03
226106_at	<i>RNF141</i>	ring finger protein 141	-0.549	6.7E-03
204155_s_at	<i>SIK3</i>	SIK family kinase 3	-0.549	6.7E-03
204020_at	<i>PURA</i>	purine-rich element binding protein A	-0.549	6.7E-03
227605_at	<i>AIMP1</i>	aminoacyl tRNA synthetase complex-interacting multifunctional protein 1	-0.549	6.6E-03
222941_at	<i>USP46</i>	ubiquitin specific peptidase 46	-0.549	6.6E-03
205104_at	<i>SNPH</i>	syntaphilin	-0.550	6.6E-03
201599_at	<i>OAT</i>	ornithine aminotransferase	-0.550	6.6E-03
212598_at	<i>WDFY3</i>	WD repeat and FYVE domain containing 3	-0.550	6.6E-03
201718_s_at	<i>EPB41L2</i>	erythrocyte membrane protein band 4.1-like 2	-0.550	6.5E-03
218097_s_at	<i>CUEDC2</i>	CUE domain containing 2	-0.550	6.5E-03
238818_at	<i>KIAA1429</i>	KIAA1429	-0.550	6.5E-03
212655_at	<i>ZCCHC14</i>	zinc finger, CCHC domain containing 14	-0.550	6.5E-03
223058_at	<i>FAM107B</i>	family with sequence similarity 107, member B	-0.550	6.5E-03
229497_at	<i>ANKDD1A</i>	ankyrin repeat and death domain containing 1A	-0.550	6.5E-03
204100_at	<i>THRA</i>	thyroid hormone receptor, alpha	-0.551	6.5E-03
218528_s_at	<i>RNF38</i>	ring finger protein 38	-0.551	6.5E-03
1556061_at	<i>RPP30</i>	ribonuclease P/MRP 30kDa subunit	-0.551	6.5E-03
221508_at	<i>TAOK3</i>	TAO kinase 3	-0.551	6.5E-03
212779_at	<i>KIAA1109</i>	KIAA1109	-0.551	6.4E-03
226443_at	<i>FAM122A</i>	family with sequence similarity 122A	-0.551	6.4E-03
225550_at	<i>CNST</i>	consortin, connexin sorting protein	-0.551	6.4E-03
218761_at	<i>RNF111</i>	ring finger protein 111	-0.552	6.4E-03
218935_at	<i>EHD3</i>	EH-domain containing 3	-0.552	6.4E-03
224622_at	<i>TBC1D14</i>	TBC1 domain family, member 14	-0.552	6.4E-03
238569_at	<i>GABBR1</i>	gamma-aminobutyric acid (GABA) B receptor, 1	-0.552	6.4E-03
209914_s_at	<i>NRXN1</i>	neurexin 1	-0.552	6.3E-03
213218_at	<i>ZNF187</i>	zinc finger protein 187	-0.552	6.3E-03
208868_s_at	<i>GABARAPL1</i>	GABA(A) receptor-associated protein like 1	-0.552	6.3E-03

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
225840_at	<i>TEF</i>	thyrotrophic embryonic factor	-0.552	6.3E-03
219643_at	<i>LRP1B</i>	low density lipoprotein receptor-related protein 1B	-0.553	6.3E-03
227977_at	<i>ZADH2</i>	zinc binding alcohol dehydrogenase domain containing 2	-0.553	6.3E-03
209019_s_at	<i>PINK1</i>	PTEN induced putative kinase 1	-0.553	6.3E-03
212427_at	<i>KIAA0368</i>	KIAA0368	-0.553	6.3E-03
202457_s_at	<i>PPP3CA</i>	protein phosphatase 3, catalytic subunit, alpha isozyme	-0.553	6.3E-03
226104_at	<i>RNF170</i>	ring finger protein 170	-0.553	6.3E-03
228017_s_at	<i>NKAIN4</i>	Na <sup>+</sup> /K <sup>+</sup> transporting ATPase interacting 4	-0.554	6.2E-03
224781_s_at	<i>RBM17</i>	RNA binding motif protein 17	-0.554	6.2E-03
225064_at	<i>RABEP1</i>	rabaptin, RAB GTPase binding effector protein 1	-0.554	6.2E-03
203883_s_at	<i>RAB11FIP2</i>	RAB11 family interacting protein 2 (class I)	-0.554	6.2E-03
208740_at	<i>SAP18</i>	Sin3A-associated protein, 18kDa	-0.554	6.1E-03
201320_at	<i>SMARCC2</i>	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 2	-0.554	6.1E-03
217896_s_at	<i>FAM192A</i>	family with sequence similarity 192, member A	-0.554	6.1E-03
225446_at	<i>BRWD1</i>	bromodomain and WD repeat domain containing 1	-0.554	6.1E-03
215945_s_at	<i>TRIM2</i>	tripartite motif containing 2	-0.554	6.1E-03
220345_at	<i>LRRTM4</i>	leucine rich repeat transmembrane neuronal 4	-0.554	6.1E-03
237094_at	<i>FAM19A5</i>	family with sequence similarity 19 (chemokine (C-C motif)-like), member A5	-0.554	6.1E-03
228006_at	<i>PTEN</i>	phosphatase and tensin homolog	-0.555	6.1E-03
209864_at	<i>FRAT2</i>	frequently rearranged in advanced T-cell lymphomas 2	-0.555	6.1E-03
226345_at	<i>ARL5B</i>	ADP-ribosylation factor-like 5B	-0.555	6.1E-03
209259_s_at	<i>SMC3</i>	structural maintenance of chromosomes 3	-0.555	6.1E-03
235227_at	<i>STXBP5</i>	syntaxin binding protein 5 (tomosyn)	-0.555	6.1E-03
1560814_a_at	<i>C15orf57</i>	chromosome 15 open reading frame 57	-0.555	6.0E-03
212309_at	<i>CLASP2</i>	cytoplasmic linker associated protein 2	-0.556	6.0E-03
1564002_a_at	<i>AKD1</i>	adenylate kinase domain containing 1	-0.556	6.0E-03
202967_at	<i>GSTA4</i>	glutathione S-transferase alpha 4	-0.556	6.0E-03
200898_s_at	<i>MGEA5</i>	meningioma expressed antigen 5 (hyaluronidase)	-0.556	6.0E-03
227401_at	<i>IL17D</i>	interleukin 17D	-0.556	6.0E-03
230129_at	<i>PSTK</i>	phosphoseryl-tRNA kinase	-0.556	6.0E-03
215235_at	<i>SPTAN1</i>	spectrin, alpha, non-erythrocytic 1	-0.556	5.9E-03
206689_x_at	<i>KAT5</i>	K(lysine) acetyltransferase 5	-0.557	5.9E-03
243843_at	<i>N4BP2L1</i>	NEDD4 binding protein 2-like 1	-0.557	5.9E-03
203584_at	<i>EMC2</i>	ER membrane protein complex subunit 2	-0.557	5.9E-03
212124_at	<i>ZMIZ1</i>	zinc finger, MIZ-type containing 1	-0.557	5.8E-03
224652_at	<i>CCNY</i>	cyclin Y	-0.558	5.8E-03
226280_at	<i>BNIP2</i>	BCL2/adenovirus E1B 19kDa interacting protein 2	-0.558	5.8E-03
221550_at	<i>COX15</i>	COX15 homolog, cytochrome c oxidase assembly protein (yeast)	-0.558	5.8E-03
201807_at	<i>VPS26A</i>	vacuolar protein sorting 26 homolog A (S. pombe)	-0.558	5.8E-03
218976_at	<i>DNAJC12</i>	DnaJ (Hsp40) homolog, subfamily C, member 12	-0.558	5.7E-03
203631_s_at	<i>GPRC5B</i>	G protein-coupled receptor, family C, group 5, member B	-0.558	5.7E-03
209982_s_at	<i>NRXN2</i>	neurexin 2	-0.558	5.7E-03
209460_at	<i>ABAT</i>	4-aminobutyrate aminotransferase	-0.558	5.7E-03
221588_x_at	<i>ALDH6A1</i>	aldehyde dehydrogenase 6 family, member A1	-0.559	5.7E-03
205259_at	<i>NR3C2</i>	nuclear receptor subfamily 3, group C, member 2	-0.559	5.6E-03
218228_s_at	<i>TNKS2</i>	tankyrase, TRF1-interacting ankyrin-related ADP-ribose	-0.559	5.6E-03

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
		polymerase 2		
232226_at	<i>LRRC4C</i>	leucine rich repeat containing 4C	-0.559	5.6E-03
205279_s_at	<i>GLRB</i>	glycine receptor, beta	-0.559	5.6E-03
209311_at	<i>BCL2L2</i>	BCL2-like 2	-0.559	5.6E-03
224662_at	<i>KIF5B</i>	kinesin family member 5B	-0.559	5.6E-03
226648_at	<i>HIF1AN</i>	hypoxia inducible factor 1, alpha subunit inhibitor	-0.559	5.6E-03
226366_at	<i>SHPRH</i>	SNF2 histone linker PHD RING helicase, E3 ubiquitin protein ligase	-0.559	5.6E-03
238472_at	<i>FBXO9</i>	F-box protein 9	-0.559	5.6E-03
228695_at	<i>C8orf46</i>	chromosome 8 open reading frame 46	-0.560	5.6E-03
234977_at	<i>ZADH2</i>	zinc binding alcohol dehydrogenase domain containing 2	-0.560	5.6E-03
235345_at	<i>RUFY2</i>	RUN and FYVE domain containing 2	-0.560	5.6E-03
203853_s_at	<i>GAB2</i>	GRB2-associated binding protein 2	-0.560	5.5E-03
204067_at	<i>SUOX</i>	sulfite oxidase	-0.560	5.5E-03
229312_s_at	<i>GKAP1</i>	G kinase anchoring protein 1	-0.561	5.5E-03
200788_s_at	<i>PEA15</i>	phosphoprotein enriched in astrocytes 15	-0.561	5.5E-03
201988_s_at	<i>CREBL2</i>	cAMP responsive element binding protein-like 2	-0.561	5.5E-03
225405_at	<i>HNRNPUL2</i>	heterogeneous nuclear ribonucleoprotein U-like 2	-0.561	5.5E-03
226712_at	<i>SSRI</i>	signal sequence receptor, alpha	-0.562	5.4E-03
220753_s_at	<i>CRYL1</i>	crystallin, lambda 1	-0.562	5.4E-03
225426_at	<i>PPP6C</i>	protein phosphatase 6, catalytic subunit	-0.562	5.4E-03
239300_at	<i>PIK3C3</i>	phosphoinositide-3-kinase, class 3	-0.562	5.4E-03
213118_at	<i>UHRF1BP1L</i>	UHRF1 binding protein 1-like	-0.562	5.3E-03
203884_s_at	<i>RAB11FIP2</i>	RAB11 family interacting protein 2 (class I)	-0.563	5.3E-03
202794_at	<i>INPP1</i>	inositol polyphosphate-1-phosphatase	-0.563	5.2E-03
208939_at	<i>SEPHS1</i>	selenophosphate synthetase 1	-0.563	5.2E-03
209860_s_at	<i>ANXA7</i>	annexin A7	-0.563	5.2E-03
226326_at	<i>PCGF5</i>	polycomb group ring finger 5	-0.563	5.2E-03
230668_at	<i>NKAIN4</i>	Na <sup>+</sup> /K <sup>+</sup> transporting ATPase interacting 4	-0.564	5.2E-03
228289_at	<i>BRD7</i>	bromodomain containing 7	-0.564	5.2E-03
35846_at	<i>THRA</i>	thyroid hormone receptor, alpha	-0.564	5.2E-03
225504_at	<i>HMBOX1</i>	homeobox containing 1	-0.564	5.1E-03
203657_s_at	<i>CTSF</i>	cathepsin F	-0.564	5.1E-03
226258_at	<i>AMN1</i>	antagonist of mitotic exit network 1 homolog (S. cerevisiae)	-0.564	5.1E-03
222820_at	<i>TNRC6C</i>	trinucleotide repeat containing 6C	-0.564	5.1E-03
221824_s_at	<i>MARCH8</i>	membrane-associated ring finger (C3HC4) 8, E3 ubiquitin protein ligase	-0.565	5.1E-03
219701_at	<i>TMOD2</i>	tropomodulin 2 (neuronal)	-0.565	5.1E-03
243219_x_at	<i>MRPL50</i>	mitochondrial ribosomal protein L50	-0.565	5.1E-03
209379_s_at	<i>FAM190B</i>	family with sequence similarity 190, member B	-0.565	5.1E-03
228608_at	<i>NALCN</i>	sodium leak channel, non-selective	-0.565	5.1E-03
221487_s_at	<i>ENSA</i>	endosulfine alpha	-0.565	5.1E-03
223268_at	<i>C11orf54</i>	chromosome 11 open reading frame 54	-0.565	5.0E-03
206448_at	<i>ZNF365</i>	zinc finger protein 365	-0.566	5.0E-03
212321_at	<i>SGPL1</i>	sphingosine-1-phosphate lyase 1	-0.566	5.0E-03
205156_s_at	<i>ASIC1</i>	acid-sensing (proton-gated) ion channel 1	-0.566	5.0E-03
218675_at	<i>SLC22A17</i>	solute carrier family 22, member 17	-0.566	5.0E-03
205412_at	<i>ACAT1</i>	acetyl-CoA acetyltransferase 1	-0.566	5.0E-03

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
1554145_a_at	<i>PPP1R21</i>	protein phosphatase 1, regulatory subunit 21	-0.567	4.9E-03
212837_at	<i>FAM175B</i>	family with sequence similarity 175, member B	-0.567	4.9E-03
217452_s_at	<i>B3GALT2</i>	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 2	-0.567	4.9E-03
218128_at	<i>NFYB</i>	nuclear transcription factor Y, beta	-0.567	4.9E-03
228551_at	<i>DENND5B</i>	DENN/MADD domain containing 5B	-0.567	4.9E-03
236154_at	<i>QKI</i>	QKI, KH domain containing, RNA binding	-0.567	4.9E-03
241364_at	<i>TMEM57</i>	transmembrane protein 57	-0.568	4.8E-03
212504_at	<i>DIP2C</i>	DIP2 disco-interacting protein 2 homolog C (Drosophila)	-0.568	4.8E-03
229809_at	<i>POU6F1</i>	POU class 6 homeobox 1	-0.568	4.8E-03
224435_at	<i>FAM213A</i>	family with sequence similarity 213, member A	-0.568	4.8E-03
222984_at	<i>PAIP2</i>	poly(A) binding protein interacting protein 2	-0.568	4.8E-03
228494_at	<i>PPP1R9A</i>	protein phosphatase 1, regulatory subunit 9A	-0.569	4.8E-03
209028_s_at	<i>ABII</i>	abl-interactor 1	-0.569	4.8E-03
219451_at	<i>MSRB2</i>	methionine sulfoxide reductase B2	-0.569	4.8E-03
227456_s_at	<i>C6orf136</i>	chromosome 6 open reading frame 136	-0.569	4.8E-03
224933_s_at	<i>JMJD1C</i>	jumonji domain containing 1C	-0.569	4.8E-03
228403_at	<i>ENHO</i>	energy homeostasis associated	-0.569	4.7E-03
204199_at	<i>RALGPS1</i>	Ral GEF with PH domain and SH3 binding motif 1	-0.570	4.6E-03
205136_s_at	<i>NUFIP1</i>	nuclear fragile X mental retardation protein interacting protein 1	-0.570	4.6E-03
204028_s_at	<i>RABGAP1</i>	RAB GTPase activating protein 1	-0.570	4.6E-03
228709_at	<i>TPR</i>	translocated promoter region, nuclear basket protein	-0.570	4.6E-03
231864_at	<i>ZNF33A</i>	zinc finger protein 33A	-0.571	4.6E-03
203259_s_at	<i>HDCC2</i>	HD domain containing 2	-0.571	4.6E-03
229430_at	<i>C8orf46</i>	chromosome 8 open reading frame 46	-0.571	4.6E-03
233191_at	<i>RUFY2</i>	RUN and FYVE domain containing 2	-0.571	4.6E-03
209447_at	<i>SYNE1</i>	spectrin repeat containing, nuclear envelope 1	-0.571	4.5E-03
209455_at	<i>FBXW11</i>	F-box and WD repeat domain containing 11	-0.571	4.5E-03
218947_s_at	<i>MTPAP</i>	mitochondrial poly(A) polymerase	-0.571	4.5E-03
213564_x_at	<i>LDHB</i>	lactate dehydrogenase B	-0.572	4.5E-03
222566_at	<i>SUV420H1</i>	suppressor of variegation 4-20 homolog 1 (Drosophila)	-0.572	4.5E-03
225325_at	<i>MFSD6</i>	major facilitator superfamily domain containing 6	-0.572	4.5E-03
214043_at	<i>PTPRD</i>	protein tyrosine phosphatase, receptor type, D	-0.572	4.5E-03
242196_at	<i>ARHGAP32</i>	Rho GTPase activating protein 32	-0.572	4.5E-03
37802_r_at	<i>FAM63B</i>	family with sequence similarity 63, member B	-0.572	4.5E-03
200061_s_at	<i>RPS24</i>	ribosomal protein S24	-0.573	4.4E-03
222171_s_at	<i>PKNOX2</i>	PBX/knotted 1 homeobox 2	-0.573	4.4E-03
234982_at	<i>UBR3</i>	ubiquitin protein ligase E3 component n-recogin 3 (putative)	-0.573	4.4E-03
221763_at	<i>JMJD1C</i>	jumonji domain containing 1C	-0.573	4.4E-03
207606_s_at	<i>ARHGAP12</i>	Rho GTPase activating protein 12	-0.573	4.4E-03
227934_at	<i>KPNA5</i>	karyopherin alpha 5 (importin alpha 6)	-0.574	4.4E-03
218773_s_at	<i>MSRB2</i>	methionine sulfoxide reductase B2	-0.574	4.3E-03
232161_x_at	<i>PTPN4</i>	protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte)	-0.574	4.3E-03
212503_s_at	<i>DIP2C</i>	DIP2 disco-interacting protein 2 homolog C (Drosophila)	-0.574	4.3E-03
213269_at	<i>ZNF248</i>	zinc finger protein 248	-0.574	4.3E-03
238681_at	<i>GDPD1</i>	glycerophosphodiester phosphodiesterase domain	-0.574	4.3E-03

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
		containing 1		
201677_at	<i>C3orf37</i>	Chromosome 3 open reading frame 37	-0.575	4.3E-03
219336_s_at	<i>ASCC1</i>	activating signal cointegrator 1 complex subunit 1	-0.575	4.3E-03
226001_at	<i>KLHL5</i>	kelch-like 5 (Drosophila)	-0.575	4.3E-03
219196_at	<i>SCG3</i>	secretogranin III	-0.575	4.3E-03
223179_at	<i>YPEL3</i>	yippee-like 3 (Drosophila)	-0.575	4.2E-03
229245_at	<i>PLEKHA6</i>	pleckstrin homology domain containing, family A member 6	-0.576	4.2E-03
212690_at	<i>DDHD2</i>	DDHD domain containing 2	-0.576	4.2E-03
244294_at	<i>GTF2H5</i>	general transcription factor IIIH, polypeptide 5	-0.576	4.2E-03
201007_at	<i>HADHB</i>	hydroxyacyl-CoA dehydrogenase/3-ketoacyl-CoA thiolase/enoyl-CoA hydratase (trifunctional protein), beta subunit	-0.576	4.2E-03
225115_at	<i>HIPK2</i>	homeodomain interacting protein kinase 2	-0.576	4.2E-03
221771_s_at	<i>MPHOSPH8</i>	M-phase phosphoprotein 8	-0.576	4.2E-03
220115_s_at	<i>CDH10</i>	cadherin 10, type 2 (T2-cadherin)	-0.577	4.1E-03
221679_s_at	<i>ABHD6</i>	abhydrolase domain containing 6	-0.577	4.1E-03
209192_x_at	<i>KAT5</i>	K(lysine) acetyltransferase 5	-0.577	4.1E-03
226030_at	<i>ACADSB</i>	acyl-CoA dehydrogenase, short/branched chain	-0.577	4.1E-03
212326_at	<i>VPS13D</i>	vacuolar protein sorting 13 homolog D (S. cerevisiae)	-0.577	4.1E-03
219961_s_at	<i>PLK1S1</i>	polo-like kinase 1 substrate 1	-0.577	4.1E-03
218174_s_at	<i>C10orf57</i>	chromosome 10 open reading frame 57	-0.577	4.1E-03
235556_at	<i>CREBRF</i>	CREB3 regulatory factor	-0.577	4.1E-03
225432_s_at	<i>CSRP2BP</i>	CSRP2 binding protein	-0.578	4.1E-03
203457_at	<i>STX7</i>	syntaxin 7	-0.578	4.1E-03
223727_at	<i>KCNIP2</i>	Kv channel interacting protein 2	-0.578	4.1E-03
228480_at	<i>VAPA</i>	VAMP (vesicle-associated membrane protein)-associated protein A, 33kDa	-0.578	4.1E-03
203562_at	<i>FEZ1</i>	fasciculation and elongation protein zeta 1 (zygin I)	-0.578	4.0E-03
235867_at	<i>GSTM3</i>	glutathione S-transferase mu 3 (brain)	-0.578	4.0E-03
202741_at	<i>PRKACB</i>	protein kinase, cAMP-dependent, catalytic, beta	-0.579	4.0E-03
209583_s_at	<i>CD200</i>	CD200 molecule	-0.579	4.0E-03
211941_s_at	<i>PEBP1</i>	phosphatidylethanolamine binding protein 1	-0.580	3.9E-03
218791_s_at	<i>C15orf29</i>	chromosome 15 open reading frame 29	-0.580	3.9E-03
220985_s_at	<i>RNF170</i>	ring finger protein 170	-0.582	3.7E-03
212636_at	<i>QKI</i>	QKI, KH domain containing, RNA binding	-0.582	3.7E-03
208940_at	<i>SEPHS1</i>	selenophosphate synthetase 1	-0.582	3.7E-03
228711_at	<i>ZNF37A</i>	zinc finger protein 37A	-0.582	3.7E-03
223192_at	<i>SLC25A28</i>	solute carrier family 25 (mitochondrial iron transporter), member 28	-0.583	3.6E-03
210875_s_at	<i>ZEB1</i>	zinc finger E-box binding homeobox 1	-0.583	3.6E-03
223894_s_at	<i>AKTIP</i>	AKT interacting protein	-0.584	3.6E-03
227455_at	<i>C6orf136</i>	chromosome 6 open reading frame 136	-0.584	3.5E-03
213744_at	<i>ATRNL1</i>	attractin-like 1	-0.584	3.5E-03
203599_s_at	<i>WBP4</i>	WW domain binding protein 4 (formin binding protein 21)	-0.584	3.5E-03
209046_s_at	<i>GABARAPL2</i>	GABA(A) receptor-associated protein-like 2	-0.585	3.4E-03
212419_at	<i>ZCCHC24</i>	zinc finger, CCHC domain containing 24	-0.585	3.4E-03
235079_at	<i>ZNF704</i>	zinc finger protein 704	-0.585	3.4E-03
202080_s_at	<i>TRAK1</i>	trafficking protein, kinesin binding 1	-0.585	3.4E-03



Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
208869_s_at	<i>GABARAPL1</i>	GABA(A) receptor-associated protein like 1	-0.585	3.4E-03
232059_at	<i>DSCAML1</i>	Down syndrome cell adhesion molecule like 1	-0.586	3.4E-03
209248_at	<i>GHITM</i>	growth hormone inducible transmembrane protein	-0.586	3.4E-03
210791_s_at	<i>ARHGAP32</i>	Rho GTPase activating protein 32	-0.587	3.3E-03
226805_at	<i>FITM2</i>	fat storage-inducing transmembrane protein 2	-0.587	3.3E-03
201321_s_at	<i>SMARCC2</i>	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 2	-0.588	3.3E-03
235278_at	<i>MACROD2</i>	MACRO domain containing 2	-0.588	3.3E-03
212747_at	<i>ANKS1A</i>	ankyrin repeat and sterile alpha motif domain containing 1A	-0.588	3.2E-03
224649_x_at	<i>CCNY</i>	cyclin Y	-0.588	3.2E-03
219549_s_at	<i>RTN3</i>	reticulon 3	-0.588	3.2E-03
1553971_a_at	<i>GATS</i>	GATS, stromal antigen 3 opposite strand	-0.588	3.2E-03
209983_s_at	<i>NRXN2</i>	neurexin 2	-0.588	3.2E-03
211423_s_at	<i>SC5DL</i>	sterol-C5-desaturase (ERG3 delta-5-desaturase homolog, <i>S. cerevisiae</i> )-like	-0.588	3.2E-03
212905_at	<i>CSTF2T</i>	cleavage stimulation factor, 3' pre-RNA, subunit 2, 64kDa, tau variant	-0.589	3.2E-03
37953_s_at	<i>ASIC1</i>	acid-sensing (proton-gated) ion channel 1	-0.589	3.1E-03
227451_s_at	<i>CCDC90A</i>	coiled-coil domain containing 90A	-0.589	3.1E-03
203611_at	<i>TERF2</i>	telomeric repeat binding factor 2	-0.590	3.1E-03
218127_at	<i>NFYB</i>	nuclear transcription factor Y, beta	-0.590	3.1E-03
224581_s_at	<i>NUCKS1</i>	nuclear casein kinase and cyclin-dependent kinase substrate 1	-0.590	3.1E-03
214258_x_at	<i>KAT5</i>	K(lysine) acetyltransferase 5	-0.590	3.1E-03
221527_s_at	<i>PARD3</i>	par-3 partitioning defective 3 homolog ( <i>C. elegans</i> )	-0.591	3.1E-03
238739_at	<i>IPMK</i>	inositol polyphosphate multikinase	-0.591	3.1E-03
1554609_at	<i>LOC100287896</i>	uncharacterized LOC100287896	-0.591	3.1E-03
223886_s_at	<i>RNF146</i>	ring finger protein 146	-0.591	3.1E-03
219767_s_at	<i>CRYZL1</i>	crystallin, zeta (quinone reductase)-like 1	-0.591	3.1E-03
240214_at	<i>RWDD1</i>	RWD domain containing 1	-0.591	3.0E-03
203427_at	<i>ASF1A</i>	ASF1 anti-silencing function 1 homolog A ( <i>S. cerevisiae</i> )	-0.591	3.0E-03
201778_s_at	<i>KIAA0494</i>	KIAA0494	-0.592	3.0E-03
212289_at	<i>ANKRD12</i>	ankyrin repeat domain 12	-0.592	3.0E-03
210740_s_at	<i>ITPK1</i>	inositol-tetrakisphosphate 1-kinase	-0.592	3.0E-03
209618_at	<i>CTNND2</i>	catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein)	-0.592	3.0E-03
218789_s_at	<i>C11orf71</i>	chromosome 11 open reading frame 71	-0.592	3.0E-03
233873_x_at	<i>MTPAP</i>	mitochondrial poly(A) polymerase	-0.592	3.0E-03
228185_at	<i>ZNF25</i>	zinc finger protein 25	-0.592	3.0E-03
218878_s_at	<i>SIRT1</i>	sirtuin 1	-0.592	3.0E-03
228697_at	<i>HINT3</i>	histidine triad nucleotide binding protein 3	-0.593	3.0E-03
228354_at	<i>MORN4</i>	MORN repeat containing 4	-0.593	3.0E-03
236178_at	<i>C6orf162</i>	chromosome 6 open reading frame 162	-0.593	3.0E-03
203870_at	<i>USP46</i>	ubiquitin specific peptidase 46	-0.593	3.0E-03
204732_s_at	<i>TRIM23</i>	tripartite motif containing 23	-0.594	3.0E-03
227407_at	<i>TAPT1</i>	transmembrane anterior posterior transformation 1	-0.594	3.0E-03
222562_s_at	<i>TNKS2</i>	tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase 2	-0.594	2.9E-03
203632_s_at	<i>GPRC5B</i>	G protein-coupled receptor, family C, group 5, member B	-0.594	2.9E-03

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
211515_s_at	<i>DSTYK</i>	dual serine/threonine and tyrosine protein kinase	-0.594	2.9E-03
204813_at	<i>MAPK10</i>	mitogen-activated protein kinase 10	-0.595	2.9E-03
240433_x_at	<i>CADM2</i>	cell adhesion molecule 2	-0.595	2.9E-03
207971_s_at	<i>CEP68</i>	centrosomal protein 68kDa	-0.595	2.9E-03
220999_s_at	<i>CYFIP2</i>	cytoplasmic FMR1 interacting protein 2	-0.595	2.9E-03
208030_s_at	<i>ADD1</i>	adducin 1 (alpha)	-0.596	2.9E-03
212989_at	<i>SGMS1</i>	sphingomyelin synthase 1	-0.596	2.9E-03
225509_at	<i>SAP30L</i>	SAP30-like	-0.596	2.9E-03
213838_at	<i>NOL7</i>	nucleolar protein 7, 27kDa	-0.596	2.8E-03
234947_s_at	<i>FAM204A</i>	family with sequence similarity 204, member A	-0.596	2.8E-03
226537_at	<i>HINT3</i>	histidine triad nucleotide binding protein 3	-0.596	2.8E-03
204063_s_at	<i>ULK2</i>	unc-51-like kinase 2 (C. elegans)	-0.596	2.8E-03
235061_at	<i>PPMIK</i>	protein phosphatase, Mg <sup>2+</sup> /Mn <sup>2+</sup> dependent, 1K	-0.596	2.8E-03
216218_s_at	<i>PLCL2</i>	phospholipase C-like 2	-0.597	2.8E-03
222431_at	<i>SPIN1</i>	spindlin 1	-0.597	2.8E-03
203449_s_at	<i>TERF1</i>	telomeric repeat binding factor (NIMA-interacting) 1	-0.597	2.8E-03
223315_at	<i>NTN4</i>	netrin 4	-0.597	2.8E-03
228259_s_at	<i>EPB41L4A-AS1</i>	EPB41L4A antisense RNA 1 (non-protein coding)	-0.597	2.8E-03
208055_s_at	<i>HERC4</i>	HECT and RLD domain containing E3 ubiquitin protein ligase 4	-0.598	2.8E-03
209197_at	<i>SYT11</i>	synaptotagmin XI	-0.598	2.8E-03
221221_s_at	<i>KLHL3</i>	kelch-like 3 (Drosophila)	-0.598	2.8E-03
213745_at	<i>ATRNL1</i>	attractin-like 1	-0.598	2.8E-03
219046_s_at	<i>PKNOX2</i>	PBX/knotted 1 homeobox 2	-0.598	2.8E-03
221590_s_at	<i>ALDH6A1</i>	aldehyde dehydrogenase 6 family, member A1	-0.598	2.8E-03
201030_x_at	<i>LDHB</i>	lactate dehydrogenase B	-0.598	2.8E-03
237802_at	<i>XKR4</i>	XK, Kell blood group complex subunit-related family, member 4	-0.599	2.8E-03
201753_s_at	<i>ADD3</i>	adducin 3 (gamma)	-0.599	2.7E-03
203156_at	<i>AKAP11</i>	A kinase (PRKA) anchor protein 11	-0.599	2.7E-03
201957_at	<i>PPP1R12B</i>	protein phosphatase 1, regulatory subunit 12B	-0.599	2.7E-03
209818_s_at	<i>HABP4</i>	hyaluronan binding protein 4	-0.599	2.7E-03
219945_at	<i>DDX25</i>	DEAD (Asp-Glu-Ala-Asp) box helicase 25	-0.599	2.7E-03
226607_at	<i>C20orf194</i>	chromosome 20 open reading frame 194	-0.599	2.7E-03
213034_at	<i>SIK3</i>	SIK family kinase 3	-0.600	2.7E-03
223406_x_at	<i>FAM192A</i>	family with sequence similarity 192, member A	-0.600	2.7E-03
209469_at	<i>GPM6A</i>	glycoprotein M6A	-0.600	2.7E-03
223132_s_at	<i>TRIM8</i>	tripartite motif containing 8	-0.600	2.7E-03
223672_at	<i>SGIP1</i>	SH3-domain GRB2-like (endophilin) interacting protein 1	-0.601	2.7E-03
212190_at	<i>SERPINE2</i>	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 2	-0.601	2.6E-03
214053_at	<i>ERBB4</i>	v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian)	-0.601	2.6E-03
226203_at	<i>MYO9A</i>	myosin IXA	-0.602	2.6E-03
226741_at	<i>SLC12A6</i>	solute carrier family 12 (potassium/chloride transporters), member 6	-0.602	2.6E-03
203869_at	<i>USP46</i>	ubiquitin specific peptidase 46	-0.602	2.6E-03
218264_at	<i>BCCIP</i>	BRCA2 and CDKN1A interacting protein	-0.603	2.6E-03
229317_at	<i>KPNA5</i>	karyopherin alpha 5 (importin alpha 6)	-0.603	2.5E-03

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
212764_at	<i>ZEB1</i>	zinc finger E-box binding homeobox 1	-0.603	2.5E-03
223283_s_at	<i>TSHZ1</i>	teashirt zinc finger homeobox 1	-0.603	2.5E-03
223336_s_at	<i>RAB18</i>	RAB18, member RAS oncogene family	-0.603	2.5E-03
225511_at	<i>GPRC5B</i>	G protein-coupled receptor, family C, group 5, member B	-0.604	2.5E-03
204447_at	<i>PROSAPIP1</i>	ProSAPiP1 protein	-0.604	2.5E-03
202137_s_at	<i>ZMYND11</i>	zinc finger, MYND-type containing 11	-0.604	2.5E-03
218032_at	<i>SNN</i>	stannin	-0.604	2.5E-03
225825_at	<i>C20orf194</i>	chromosome 20 open reading frame 194	-0.604	2.5E-03
235118_at	<i>CADM2</i>	cell adhesion molecule 2	-0.604	2.5E-03
203950_s_at	<i>CLCN6</i>	chloride channel, voltage-sensitive 6	-0.604	2.5E-03
209155_s_at	<i>NT5C2</i>	5'-nucleotidase, cytosolic II	-0.605	2.5E-03
221213_s_at	<i>ZNF280D</i>	zinc finger protein 280D	-0.605	2.5E-03
235561_at	<i>TXNL1</i>	thioredoxin-like 1	-0.605	2.5E-03
212606_at	<i>WDFY3</i>	WD repeat and FYVE domain containing 3	-0.605	2.5E-03
218909_at	<i>RPS6KC1</i>	ribosomal protein S6 kinase, 52kDa, polypeptide 1	-0.605	2.5E-03
205773_at	<i>CPEB3</i>	cytoplasmic polyadenylation element binding protein 3	-0.607	2.4E-03
223340_at	<i>ATL1</i>	atlastin GTPase 1	-0.607	2.4E-03
225354_s_at	<i>SH3BGRL2</i>	SH3 domain binding glutamic acid-rich protein like 2	-0.608	2.3E-03
208990_s_at	<i>HNRNPH3</i>	heterogeneous nuclear ribonucleoprotein H3 (2H9)	-0.608	2.3E-03
226684_at	<i>ATG2B</i>	autophagy related 2B	-0.608	2.3E-03
235866_at	<i>C9orf85</i>	chromosome 9 open reading frame 85	-0.608	2.3E-03
228999_at	<i>CHD2</i>	chromodomain helicase DNA binding protein 2	-0.608	2.3E-03
221523_s_at	<i>RRAGD</i>	Ras-related GTP binding D	-0.609	2.3E-03
224850_at	<i>ATAD1</i>	ATPase family, AAA domain containing 1	-0.609	2.3E-03
225368_at	<i>HIPK2</i>	homeodomain interacting protein kinase 2	-0.609	2.3E-03
227169_at	<i>DNAJC18</i>	DnaJ (Hsp40) homolog, subfamily C, member 18	-0.609	2.3E-03
203261_at	<i>DCTN6</i>	dynactin 6	-0.610	2.3E-03
224977_at	<i>C6orf89</i>	chromosome 6 open reading frame 89	-0.610	2.3E-03
1552733_at	<i>KLHDC1</i>	kelch domain containing 1	-0.610	2.3E-03
224787_s_at	<i>RAB18</i>	RAB18, member RAS oncogene family	-0.611	2.2E-03
224648_at	<i>GPBP1</i>	GC-rich promoter binding protein 1	-0.611	2.2E-03
227572_at	<i>USP30</i>	ubiquitin specific peptidase 30	-0.611	2.2E-03
225913_at	<i>PEAK1</i>	NKF3 kinase family member	-0.612	2.2E-03
225845_at	<i>ZBTB44</i>	zinc finger and BTB domain containing 44	-0.612	2.2E-03
221552_at	<i>ABHD6</i>	abhydrolase domain containing 6	-0.612	2.2E-03
209504_s_at	<i>PLEKHB1</i>	pleckstrin homology domain containing, family B (evectins) member 1	-0.613	2.2E-03
201344_at	<i>UBE2D2</i>	ubiquitin-conjugating enzyme E2D 2	-0.613	2.2E-03
224377_s_at	<i>RAB18</i>	RAB18, member RAS oncogene family	-0.614	2.1E-03
218306_s_at	<i>HERC1</i>	HECT and RLD domain containing E3 ubiquitin protein ligase family member 1	-0.614	2.1E-03
205202_at	<i>PCMT1</i>	protein-L-isoaspartate (D-aspartate) O-methyltransferase	-0.614	2.1E-03
202022_at	<i>ALDOC</i>	aldolase C, fructose-bisphosphate	-0.614	2.1E-03
202405_at	<i>TIAL1</i>	TIA1 cytotoxic granule-associated RNA binding protein-like 1	-0.614	2.1E-03
216903_s_at	<i>MICU1</i>	mitochondrial calcium uptake 1	-0.614	2.1E-03
1558759_s_at	<i>CLASP2</i>	cytoplasmic linker associated protein 2	-0.614	2.1E-03
209027_s_at	<i>ABII</i>	abl-interactor 1	-0.615	2.1E-03
235780_at	<i>PRKACB</i>	protein kinase, cAMP-dependent, catalytic, beta	-0.615	2.1E-03

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
213222_at	<i>PLCB1</i>	phospholipase C, beta 1 (phosphoinositide-specific)	-0.616	2.1E-03
227154_at	<i>IGSF21</i>	immunoglobulin superfamily, member 21	-0.616	2.0E-03
203845_at	<i>KAT2B</i>	K(lysine) acetyltransferase 2B	-0.617	2.0E-03
227351_at	<i>C16orf52</i>	chromosome 16 open reading frame 52	-0.617	2.0E-03
225768_at	<i>NR1D2</i>	nuclear receptor subfamily 1, group D, member 2	-0.618	2.0E-03
208881_x_at	<i>IDII</i>	isopentenyl-diphosphate delta isomerase 1	-0.618	2.0E-03
213208_at	<i>KIAA0240</i>	KIAA0240	-0.618	2.0E-03
226148_at	<i>ZBTB44</i>	zinc finger and BTB domain containing 44	-0.618	2.0E-03
213489_at	<i>MAPRE2</i>	microtubule-associated protein, RP/EB family, member 2	-0.619	2.0E-03
224780_at	<i>RBM17</i>	RNA binding motif protein 17	-0.620	1.9E-03
209271_at	<i>BPTF</i>	bromodomain PHD finger transcription factor	-0.620	1.9E-03
227049_at	<i>ZADH2</i>	zinc binding alcohol dehydrogenase domain containing 2	-0.620	1.9E-03
227949_at	<i>PHACTR3</i>	phosphatase and actin regulator 3	-0.620	1.9E-03
221702_s_at	<i>TM2D3</i>	TM2 domain containing 3	-0.621	1.9E-03
225116_at	<i>HIPK2</i>	homeodomain interacting protein kinase 2	-0.621	1.9E-03
205669_at	<i>NCAM2</i>	neural cell adhesion molecule 2	-0.621	1.9E-03
209538_at	<i>ZNF32</i>	zinc finger protein 32	-0.621	1.9E-03
227209_at	<i>CNTN1</i>	contactin 1	-0.621	1.9E-03
204290_s_at	<i>ALDH6A1</i>	aldehyde dehydrogenase 6 family, member A1	-0.621	1.9E-03
213364_s_at	<i>SNX1</i>	sorting nexin 1	-0.623	1.8E-03
226964_at	<i>TTBK2</i>	tau tubulin kinase 2	-0.623	1.8E-03
205638_at	<i>BAI3</i>	brain-specific angiogenesis inhibitor 3	-0.624	1.8E-03
208857_s_at	<i>PCMT1</i>	protein-L-isoaspartate (D-aspartate) O-methyltransferase	-0.624	1.8E-03
235798_at	<i>TMEM170B</i>	transmembrane protein 170B	-0.624	1.8E-03
1553321_a_at	<i>SULT1C4</i>	sulfotransferase family, cytosolic, 1C, member 4	-0.624	1.8E-03
205839_s_at	<i>BZRAP1</i>	benzodiazapine receptor (peripheral) associated protein 1	-0.625	1.8E-03
200970_s_at	<i>SERP1</i>	stress-associated endoplasmic reticulum protein 1	-0.625	1.8E-03
1554547_at	<i>FAM13C</i>	family with sequence similarity 13, member C	-0.626	1.7E-03
217286_s_at	<i>NDRG3</i>	NDRG family member 3	-0.626	1.7E-03
227728_at	<i>PPM1A</i>	protein phosphatase, Mg <sup>2+</sup> /Mn <sup>2+</sup> dependent, 1A	-0.626	1.7E-03
241365_at	<i>SATB1</i>	SATB homeobox 1	-0.626	1.7E-03
212867_at	<i>NCOA2</i>	nuclear receptor coactivator 2	-0.626	1.7E-03
209065_at	<i>UQCRCB</i>	ubiquinol-cytochrome c reductase binding protein	-0.627	1.7E-03
212080_at	<i>MLL</i>	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila)	-0.627	1.7E-03
203831_at	<i>R3HDM2</i>	R3H domain containing 2	-0.627	1.7E-03
1555250_a_at	<i>CPEB3</i>	cytoplasmic polyadenylation element binding protein 3	-0.628	1.7E-03
1554132_a_at	<i>FAM190B</i>	family with sequence similarity 190, member B	-0.628	1.7E-03
226358_at	<i>APH1B</i>	anterior pharynx defective 1 homolog B (C. elegans)	-0.629	1.6E-03
212675_s_at	<i>CEP68</i>	centrosomal protein 68kDa	-0.630	1.6E-03
226680_at	<i>IKZF5</i>	IKAROS family zinc finger 5 (Pegasus)	-0.630	1.6E-03
228390_at	<i>RAB30</i>	RAB30, member RAS oncogene family	-0.630	1.6E-03
226977_at	<i>IGIP</i>	IgA-inducing protein homolog (Bos taurus)	-0.630	1.6E-03
201034_at	<i>ADD3</i>	adducin 3 (gamma)	-0.630	1.6E-03
204615_x_at	<i>IDII</i>	isopentenyl-diphosphate delta isomerase 1	-0.630	1.6E-03
224248_x_at	<i>FAM192A</i>	family with sequence similarity 192, member A	-0.630	1.6E-03
213433_at	<i>ARL3</i>	ADP-ribosylation factor-like 3	-0.631	1.6E-03
213555_at	<i>RWDD2A</i>	RWD domain containing 2A	-0.631	1.6E-03
224645_at	<i>EIF4EBP2</i>	eukaryotic translation initiation factor 4E binding protein	-0.631	1.6E-03

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
		2		
205280_at	<i>GLRB</i>	glycine receptor, beta	-0.632	1.6E-03
213093_at	<i>PRKCA</i>	protein kinase C, alpha	-0.632	1.6E-03
225313_at	<i>FAM217B</i>	family with sequence similarity 217, member B	-0.632	1.6E-03
213411_at	<i>ADAM22</i>	ADAM metallopeptidase domain 22	-0.632	1.6E-03
210976_s_at	<i>PFKM</i>	phosphofructokinase, muscle	-0.632	1.6E-03
201425_at	<i>ALDH2</i>	aldehyde dehydrogenase 2 family (mitochondrial)	-0.632	1.6E-03
1554161_at	<i>SLC25A27</i>	solute carrier family 25, member 27	-0.632	1.6E-03
206453_s_at	<i>NDRG2</i>	NDRG family member 2	-0.632	1.6E-03
235072_s_at	<i>KIF13A</i>	kinesin family member 13A	-0.633	1.6E-03
211994_at	<i>WNK1</i>	WNK lysine deficient protein kinase 1	-0.634	1.6E-03
212423_at	<i>ZCCHC24</i>	zinc finger, CCHC domain containing 24	-0.634	1.6E-03
202432_at	<i>PPP3CB</i>	protein phosphatase 3, catalytic subunit, beta isozyme	-0.634	1.6E-03
225097_at	<i>HIPK2</i>	homeodomain interacting protein kinase 2	-0.634	1.6E-03
229463_at	<i>NTRK2</i>	neurotrophic tyrosine kinase, receptor, type 2	-0.634	1.6E-03
225751_at	<i>RBM17</i>	RNA binding motif protein 17	-0.635	1.5E-03
228967_at	<i>EIF1</i>	eukaryotic translation initiation factor 1	-0.635	1.5E-03
200899_s_at	<i>MGEA5</i>	meningioma expressed antigen 5 (hyaluronidase)	-0.636	1.5E-03
214279_s_at	<i>NDRG2</i>	NDRG family member 2	-0.637	1.4E-03
203619_s_at	<i>FAIM2</i>	Fas apoptotic inhibitory molecule 2	-0.637	1.4E-03
210414_at	<i>FLRT1</i>	fibronectin leucine rich transmembrane protein 1	-0.638	1.4E-03
226774_at	<i>FAM120B</i>	family with sequence similarity 120B	-0.638	1.4E-03
205359_at	<i>AKAP6</i>	A kinase (PRKA) anchor protein 6	-0.638	1.4E-03
212508_at	<i>MOAP1</i>	modulator of apoptosis 1	-0.639	1.4E-03
221623_at	<i>BCAN</i>	brevican	-0.640	1.4E-03
227611_at	<i>TARSL2</i>	threonyl-tRNA synthetase-like 2	-0.640	1.4E-03
238454_at	<i>ZNF540</i>	zinc finger protein 540	-0.640	1.4E-03
228857_at	<i>GNL1</i>	guanine nucleotide binding protein-like 1	-0.640	1.4E-03
212453_at	<i>KIAA1279</i>	KIAA1279	-0.642	1.3E-03
221556_at	<i>CDC14B</i>	CDC14 cell division cycle 14 homolog B ( <i>S. cerevisiae</i> )	-0.642	1.3E-03
225351_at	<i>FAM45A</i>	family with sequence similarity 45, member A	-0.642	1.3E-03
227202_at	<i>CNTN1</i>	contactin 1	-0.643	1.3E-03
236095_at	<i>NTRK2</i>	neurotrophic tyrosine kinase, receptor, type 2	-0.643	1.3E-03
231031_at	<i>KGFLP2</i>	keratinocyte growth factor-like protein 2	-0.643	1.3E-03
215522_at	<i>SORCS3</i>	sortilin-related VPS10 domain containing receptor 3	-0.643	1.3E-03
229072_at	<i>RAB30</i>	RAB30, member RAS oncogene family	-0.644	1.3E-03
213271_s_at	<i>DOPEY1</i>	dopey family member 1	-0.645	1.3E-03
238497_at	<i>TMEM136</i>	transmembrane protein 136	-0.645	1.3E-03
231112_at	<i>SNRPE</i>	small nuclear ribonucleoprotein polypeptide E	-0.645	1.3E-03
241874_at	<i>IGIP</i>	IgA-inducing protein homolog ( <i>Bos taurus</i> )	-0.646	1.2E-03
212323_s_at	<i>VPS13D</i>	vacuolar protein sorting 13 homolog D ( <i>S. cerevisiae</i> )	-0.647	1.2E-03
223282_at	<i>TSHZ1</i>	teashirt zinc finger homeobox 1	-0.647	1.2E-03
221476_s_at	<i>RPL15</i>	ribosomal protein L15	-0.647	1.2E-03
224647_at	<i>CCNY</i>	cyclin Y	-0.647	1.2E-03
224368_s_at	<i>NDRG3</i>	NDRG family member 3	-0.648	1.2E-03
240228_at	<i>CSMD3</i>	CUB and Sushi multiple domains 3	-0.648	1.2E-03
203620_s_at	<i>FCHSD2</i>	FCH and double SH3 domains 2	-0.648	1.2E-03
212062_at	<i>ATP9A</i>	ATPase, class II, type 9A	-0.649	1.2E-03

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
223721_s_at	<i>DNAJC12</i>	DnaJ (Hsp40) homolog, subfamily C, member 12	-0.650	1.2E-03
218373_at	<i>AKTIP</i>	AKT interacting protein	-0.651	1.2E-03
215058_at	<i>DENND5B</i>	DENN/MADD domain containing 5B	-0.651	1.2E-03
203408_s_at	<i>SATB1</i>	SATB homeobox 1	-0.653	1.1E-03
215848_at	<i>SCAPER</i>	S-phase cyclin A-associated protein in the ER	-0.653	1.1E-03
214762_at	<i>ATP6V1G2</i>	ATPase, H <sup>+</sup> transporting, lysosomal 13kDa, V1 subunit G2	-0.653	1.1E-03
239068_at	<i>GNL1</i>	guanine nucleotide binding protein-like 1	-0.654	1.1E-03
226627_at	<i>SEPT8</i>	septin 8	-0.654	1.1E-03
213549_at	<i>PDZD8</i>	PDZ domain containing 8	-0.656	1.1E-03
221486_at	<i>ENSA</i>	endosulfine alpha	-0.656	1.1E-03
224651_at	<i>CCNY</i>	cyclin Y	-0.656	1.1E-03
202364_at	<i>MXI1</i>	MAX interactor 1	-0.657	1.1E-03
212462_at	<i>KAT6B</i>	K(lysine) acetyltransferase 6B	-0.658	1.0E-03
221045_s_at	<i>PER3</i>	period homolog 3 (Drosophila)	-0.658	1.0E-03
211874_s_at	<i>KAT6B</i>	K(lysine) acetyltransferase 6B	-0.658	1.0E-03
45288_at	<i>ABHD6</i>	abhydrolase domain containing 6	-0.659	1.0E-03
225131_at	<i>ZRANB1</i>	zinc finger, RAN-binding domain containing 1	-0.659	1.0E-03
225950_at	<i>SAMD8</i>	sterile alpha motif domain containing 8	-0.660	1.0E-03
202959_at	<i>MUT</i>	methylmalonyl CoA mutase	-0.661	9.7E-04
224755_at	<i>TM9SF3</i>	transmembrane 9 superfamily member 3	-0.662	9.4E-04
218218_at	<i>APPL2</i>	adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 2	-0.662	9.4E-04
212308_at	<i>CLASP2</i>	cytoplasmic linker associated protein 2	-0.663	9.3E-04
214821_at	<i>SLC25A4</i>	solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 4	-0.664	8.9E-04
239425_at	<i>DCUNID5</i>	DCN1, defective in cullin neddylation 1, domain containing 5 ( <i>S. cerevisiae</i> )	-0.665	8.9E-04
228640_at	<i>PCDH7</i>	protocadherin 7	-0.665	8.8E-04
212199_at	<i>MRFAP1L1</i>	Morf4 family associated protein 1-like 1	-0.667	8.7E-04
226527_at	<i>RPRD2</i>	regulation of nuclear pre-mRNA domain containing 2	-0.667	8.7E-04
224471_s_at	<i>BTRC</i>	beta-transducin repeat containing E3 ubiquitin protein ligase	-0.668	8.7E-04
200711_s_at	<i>SKP1</i>	S-phase kinase-associated protein 1	-0.668	8.7E-04
235360_at	<i>PLEKHM3</i>	pleckstrin homology domain containing, family M, member 3	-0.668	8.7E-04
226981_at	<i>MLL</i>	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, <i>Drosophila</i> )	-0.669	8.7E-04
227341_at	<i>BEND7</i>	BEN domain containing 7	-0.670	8.7E-04
202136_at	<i>ZMYND11</i>	zinc finger, MYND-type containing 11	-0.670	8.7E-04
225138_at	<i>ZRANB1</i>	zinc finger, RAN-binding domain containing 1	-0.670	8.7E-04
223296_at	<i>SLC25A33</i>	solute carrier family 25 (pyrimidine nucleotide carrier), member 33	-0.671	8.7E-04
202641_at	<i>ARL3</i>	ADP-ribosylation factor-like 3	-0.672	8.7E-04
224653_at	<i>EIF4EBP2</i>	eukaryotic translation initiation factor 4E binding protein 2	-0.673	8.7E-04
201752_s_at	<i>ADD3</i>	adducin 3 (gamma)	-0.674	8.6E-04
230624_at	<i>SLC25A27</i>	solute carrier family 25, member 27	-0.676	8.2E-04
213463_s_at	<i>FAM149B1</i>	family with sequence similarity 149, member B1	-0.676	8.2E-04
225663_at	<i>ACBD5</i>	acyl-CoA binding domain containing 5	-0.679	7.9E-04

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
214496_x_at	<i>KAT6B</i>	K(lysine) acetyltransferase 6B	-0.680	7.8E-04
225930_at	<i>NKIRASI</i>	NFKB inhibitor interacting Ras-like 1	-0.681	7.6E-04
205882_x_at	<i>ADD3</i>	adducin 3 (gamma)	-0.685	6.4E-04
235224_s_at	<i>CAND1</i>	cullin-associated and neddylation-dissociated 1	-0.685	6.4E-04
212078_s_at	<i>MLL</i>	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila)	-0.685	6.4E-04
227334_at	<i>USP54</i>	ubiquitin specific peptidase 54	-0.686	6.4E-04
203608_at	<i>ALDH5A1</i>	aldehyde dehydrogenase 5 family, member A1	-0.688	6.4E-04
235164_at	<i>ZNF25</i>	zinc finger protein 25	-0.689	6.3E-04
227585_at	<i>ATAD1</i>	ATPase family, AAA domain containing 1	-0.691	6.1E-04
212076_at	<i>MLL</i>	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila)	-0.691	6.1E-04
1568877_a_at	<i>ACBD5</i>	acyl-CoA binding domain containing 5	-0.692	6.1E-04
232905_at	<i>GTF2H5</i>	general transcription factor IIH, polypeptide 5	-0.693	6.1E-04
212452_x_at	<i>KAT6B</i>	K(lysine) acetyltransferase 6B	-0.694	6.1E-04
218957_s_at	<i>PAAF1</i>	proteasomal ATPase-associated factor 1	-0.698	5.3E-04
213268_at	<i>CAMTA1</i>	calmodulin binding transcription activator 1	-0.700	5.1E-04
201276_at	<i>RAB5B</i>	RAB5B, member RAS oncogene family	-0.700	5.1E-04
226352_at	<i>JMY</i>	junction mediating and regulatory protein, p53 cofactor	-0.700	5.1E-04
216399_s_at	<i>SCAPER</i>	S-phase cyclin A-associated protein in the ER	-0.701	5.1E-04
207842_s_at	<i>CASC3</i>	cancer susceptibility candidate 3	-0.704	5.1E-04
203431_s_at	<i>ARHGAP32</i>	Rho GTPase activating protein 32	-0.705	5.1E-04
209741_x_at	<i>SCAPER</i>	S-phase cyclin A-associated protein in the ER	-0.705	5.1E-04
1554784_at	<i>CNTN1</i>	contactin 1	-0.706	5.1E-04
1557073_s_at	<i>TTBK2</i>	tau tubulin kinase 2	-0.709	5.1E-04
227321_at	<i>GATS</i>	GATS, stromal antigen 3 opposite strand	-0.714	4.7E-04
219743_at	<i>HEY2</i>	hairy/enhancer-of-split related with YRPW motif 2	-0.727	3.8E-04
238115_at	<i>DNAJC18</i>	DnaJ (Hsp40) homolog, subfamily C, member 18	-0.729	3.8E-04
226186_at	<i>TMOD2</i>	tropomodulin 2 (neuronal)	-0.730	3.8E-04
203097_s_at	<i>RAPGEF2</i>	Rap guanine nucleotide exchange factor (GEF) 2	-0.743	3.8E-04

Note - Spearman's rank correlation test was used to measure the relationship between gene expression level and glioma grade. Some genes are encoded by multiple probe sets.

**Supplementary Table S2.** Ion channel genes that are differentially expressed with glioma grade in the UHC cohort

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted <i>P</i> -value
208659_at	<i>CLIC1</i>	chloride intracellular channel 1	0.473	2.3E-02
201560_at	<i>CLIC4</i>	chloride intracellular channel 4	0.431	4.3E-02
205903_s_at	<i>KCNN3</i>	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 3	-0.423	4.8E-02
231103_at	<i>KCNN3</i>	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 3	-0.425	4.7E-02
1555268_a_at	<i>GRID1</i>	glutamate receptor, ionotropic, delta 1	-0.457	3.0E-02
228414_at	<i>KCNMA1</i>	potassium large conductance calcium-activated channel, subfamily M, alpha member 1	-0.463	2.7E-02
1555246_a_at	<i>SCN1A</i>	sodium channel, voltage-gated, type I, alpha subunit	-0.470	2.5E-02
210078_s_at	<i>KCNAB1</i>	potassium voltage-gated channel, shaker-related subfamily, beta member 1	-0.477	2.2E-02
210108_at	<i>CACNA1D</i>	calcium channel, voltage-dependent, L type, alpha 1D subunit	-0.480	2.2E-02
1555993_at	<i>CACNA1D</i>	calcium channel, voltage-dependent, L type, alpha 1D subunit	-0.483	2.1E-02
236538_at	<i>GRIA2</i>	glutamate receptor, ionotropic, AMPA 2	-0.489	1.9E-02
211006_s_at	<i>KCNB1</i>	potassium voltage-gated channel, Shab-related subfamily, member 1	-0.501	1.5E-02
205358_at	<i>GRIA2</i>	glutamate receptor, ionotropic, AMPA 2	-0.511	1.3E-02
244680_at	<i>GLRB</i>	glycine receptor, beta	-0.511	1.3E-02
207103_at	<i>KCND2</i>	potassium voltage-gated channel, Shal-related subfamily, member 2	-0.513	1.3E-02
244623_at	<i>KCNQ5</i>	potassium voltage-gated channel, KQT-like subfamily, member 5	-0.514	1.2E-02
211662_s_at	<i>VDAC2</i>	voltage-dependent anion channel 2	-0.525	1.0E-02
207091_at	<i>P2RX7</i>	purinergic receptor P2X, ligand-gated ion channel, 7	-0.536	8.1E-03
210471_s_at	<i>KCNAB1</i>	potassium voltage-gated channel, shaker-related subfamily, beta member 1	-0.538	8.0E-03
228581_at	<i>KCNJ10</i>	potassium inwardly-rectifying channel, subfamily J, member 10	-0.544	7.2E-03
205279_s_at	<i>GLRB</i>	glycine receptor, beta	-0.559	5.6E-03
228608_at	<i>NALCN</i>	sodium leak channel, non-selective	-0.565	5.1E-03
203950_s_at	<i>CLCN6</i>	chloride channel, voltage-sensitive 6	-0.604	2.5E-03
205280_at	<i>GLRB</i>	glycine receptor, beta	-0.632	1.6E-03

Note - Spearman's rank correlation test was used to measure the relationship between gene expression level and glioma grade. Some genes are encoded by multiple probe sets.



**Supplementary Table S3.** Significant correlation between expression of the 18 ion channel genes and glioma grade in the HFH cohort

Probeset ID	Gene symbol	Gene description	$\rho$	Adjusted P-value
208659_at	<i>CLIC1</i>	chloride intracellular channel 1	0.672	0.0E-00
201560_at	<i>CLIC4</i>	chloride intracellular channel 4	0.555	1.6E-14
221881_s_at	<i>CLIC4</i>	chloride intracellular channel 4	0.546	5.1E-14
201559_s_at	<i>CLIC4</i>	chloride intracellular channel 4	0.536	1.6E-13
1555246_a_at	<i>SCN1A</i>	sodium channel, voltage-gated, type I, alpha subunit	-0.165	4.1E-02
205903_s_at	<i>KCNN3</i>	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 3	-0.166	4.0E-02
210383_at	<i>SCN1A</i>	sodium channel, voltage-gated, type I, alpha subunit	-0.201	1.2E-02
231103_at	<i>KCNN3</i>	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 3	-0.294	1.6E-04
207091_at	<i>P2RX7</i>	purinergic receptor P2X, ligand-gated ion channel, 7	-0.302	1.0E-04
207103_at	<i>KCND2</i>	potassium voltage-gated channel, Shal-related subfamily, member 2	-0.322	3.2E-05
211662_s_at	<i>VDAC2</i>	voltage-dependent anion channel 2	-0.443	3.2E-09
221584_s_at	<i>KCNMA1</i>	potassium large conductance calcium-activated channel, subfamily M, alpha member 1	-0.447	2.2E-09
205279_s_at	<i>GLRB</i>	glycine receptor, beta	-0.496	1.6E-11
228581_at	<i>KCNJ10</i>	potassium inwardly-rectifying channel, subfamily J, member 10	-0.521	9.8E-13
205280_at	<i>GLRB</i>	glycine receptor, beta	-0.525	6.4E-13
210108_at	<i>CACNA1D</i>	calcium channel, voltage-dependent, L type, alpha 1D subunit	-0.543	7.0E-14
244623_at	<i>KCNQ5</i>	potassium voltage-gated channel, KQT-like subfamily, member 5	-0.556	1.3E-14
228414_at	<i>KCNMA1</i>	potassium large conductance calcium-activated channel, subfamily M, alpha member 1	-0.571	1.7E-15
244680_at	<i>GLRB</i>	glycine receptor, beta	-0.586	2.2E-16
203950_s_at	<i>CLCN6</i>	chloride channel, voltage-sensitive 6	-0.586	2.2E-16
211006_s_at	<i>KCNB1</i>	potassium voltage-gated channel, Shab-related subfamily, member 1	-0.591	9.2E-17
210471_s_at	<i>KCNAB1</i>	potassium voltage-gated channel, shaker-related subfamily, beta member 1	-0.601	2.0E-17
205358_at	<i>GRIA2</i>	glutamate receptor, ionotropic, AMPA 2	-0.605	1.0E-17
210078_s_at	<i>KCNAB1</i>	potassium voltage-gated channel, shaker-related subfamily, beta member 1	-0.608	6.5E-18
236538_at	<i>GRIA2</i>	glutamate receptor, ionotropic, AMPA 2	-0.630	1.5E-19
1555268_a_at	<i>GRID1</i>	glutamate receptor, ionotropic, delta 1	-0.656	1.3E-21
1555993_at	<i>CACNA1D</i>	calcium channel, voltage-dependent, L type, alpha 1D subunit	-0.665	2.2E-22
228608_at	<i>NALCN</i>	sodium leak channel, non-selective	-0.687	2.0E-24

Note - Spearman's rank correlation test was used to measure the relationship between gene expression level and glioma grade. Some genes are encoded by multiple probe sets.