

List 2: Differentially expressed genes of L.g.M-(Lg17) infected BMMφ vs uninfected BMMφ

Gene ID	Symbol	Entrez Gene Name	Fold change	p-value
20304	Ccl5	chemokine (C-C motif) ligand 5	21.586	3.66E-07
19716	Bex1	brain expressed, X-linked 1	17.618	6.89E-11
14469	Gbp2	guanylate binding protein 2, interferon-inducible	8.061	1.50E-08
73458	Aldh3B2	aldehyde dehydrogenase 3 family, member B2	7.195	8.50E-13
17750	Mt1E	metallothionein 1E	7.037	2.13E-08
215821	Kiaa1244	KIAA1244	6.391	4.05E-06
19017	Ppargc1A	peroxisome proliferator-activated receptor gamma, coactivator 1 alpha	6.177	2.60E-10
75607	Wnk2	WNK lysine deficient protein kinase 2	5.877	2.55E-10
11770	Fabp4	fatty acid binding protein 4, adipocyte	5.816	4.14E-07
21761	Morf4L1	mortality factor 4 like 1	5.792	2.17E-11
20742	Sptbn1	spectrin, beta, non-erythrocytic 1	5.560	5.48E-09
74645	Fam46C	family with sequence similarity 46, member C	5.242	3.59E-08
17470	Cd200	CD200 molecule	5.227	9.59E-06
58875	Hibadh	3-hydroxyisobutyrate dehydrogenase	5.119	9.33E-10
67916	Ppap2B	phosphatidic acid phosphatase type 2B	5.025	9.25E-05
218639	Arl15	ADP-ribosylation factor-like 15	4.750	1.21E-10
217031	Tada2A	transcriptional adaptor 2A	4.744	8.29E-12
18595	Pdgfra	platelet-derived growth factor receptor, alpha polypeptide	4.636	1.03E-05
17161	Maoa	monoamine oxidase A	4.538	4.34E-07
399568	C15Orf41	chromosome 15 open reading frame 41	4.380	5.71E-10
20299	Ccl22	chemokine (C-C motif) ligand 22	4.362	2.78E-05
64290	Foxb1	forkhead box B1	4.302	7.77E-08
74202	Fblim1	filamin binding LIM protein 1	4.101	3.12E-05
16531	Kcnma1	potassium large conductance calcium-activated channel, subfamily M, alpha member 1	4.098	5.59E-10
104462	Au014795	expressed sequence AU014795	4.081	6.72E-10
12484	Cd24	CD24 molecule	4.056	2.26E-02
12444	Ccnd2	cyclin D2	4.042	1.17E-07
56044	Cyp1A1	cytochrome P450, family 1, subfamily A, polypeptide 1	4.028	6.42E-07
14862	Gstm5	glutathione S-transferase mu 5	3.989	5.86E-08
17304	Mfge8	milk fat globule-EGF factor 8 protein	3.978	1.65E-06
17873	Gadd45B	growth arrest and DNA-damage-inducible, beta	3.942	3.32E-07
57444	Ucp1	uncoupling protein 1 (mitochondrial, proton carrier)	3.923	1.80E-04
64058	Perp	PERP, TP53 apoptosis effector	3.816	5.59E-05
12167	Bmpr1B	bone morphogenetic protein receptor, type IB	3.805	8.49E-08
218506	Mrps27	mitochondrial ribosomal protein S27	3.805	6.28E-09
16367	Irs1	insulin receptor substrate 1	3.745	1.97E-11
18798	Plcb4	phospholipase C, beta 4	3.740	3.51E-10
219132	D14Ert668E	DNA segment, Chr 14, ERATO Doi 668, expressed	3.628	4.82E-08
20249	Scd	stearoyl-CoA desaturase (delta-9-desaturase)	3.590	8.17E-05
18991	Pou3F1	POU class 3 homeobox 1	3.560	4.88E-07
11504	Adamts1	ADAM metalloproteinase with thrombospondin type 1 motif, 1	3.489	9.26E-05
76483	Lmf1	lipase maturation factor 1	3.468	2.81E-06
17069	Ly6E	lymphocyte antigen 6 complex, locus E	3.463	1.06E-05
109648	Npy	neuropeptide Y	3.456	1.00E-05
382643	Ahnak2	AHNAK nucleoprotein 2	3.449	1.99E-09
23892	Grem1	gremlin 1, cysteine knot superfamily, homolog (Xenopus laevis)	3.444	1.74E-06
208177	Phldb2	pleckstrin homology-like domain, family B, member 2	3.434	9.41E-06
71720	Osbpl3	oxysterol binding protein-like 3	3.403	1.46E-08
107702	Rnh1	ribonuclease/angiogenin inhibitor 1	3.373	7.94E-05
67182	Pdzk1Ip1	PDZK1 interacting protein 1	3.324	1.58E-05
13800	Enah	enabled homolog (Drosophila)	3.308	1.15E-08
19223	Ptgis	prostaglandin I2 (prostacyclin) synthase	3.294	3.26E-08
243548	Prickle2	prickle homolog 2 (Drosophila)	3.258	2.72E-07
98823	Aa763515	expressed sequence AA763515	3.256	4.68E-11
66356	C16Orf88	chromosome 16 open reading frame 88	3.249	2.11E-10
109019	Obfc2A	oligonucleotide/oligosaccharide-binding fold containing 2A	3.200	3.04E-07
245631	Mum1L1	melanoma associated antigen (mutated) 1-like 1	3.189	6.78E-06
26373	Clcn7	chloride channel 7	3.176	2.57E-10
27361	Sepx1	selenoprotein X, 1	3.173	3.23E-07
20112	Rps6Ka2	ribosomal protein S6 kinase, 90kDa, polypeptide 2	3.147	4.87E-05
18091	Nkx2-5	NK2 transcription factor related, locus 5 (Drosophila)	3.099	1.52E-05
67630	Samd8	sterile alpha motif domain containing 8	3.097	1.01E-02

210622	Pamr1	peptidase domain containing associated with muscle regeneration 1	3.074	2.36E-09
230866	Kiaa0090	KIAA0090	3.072	2.92E-05
19240	Tmsb10	thymosin beta 10	3.057	1.48E-04
75141	Rasd2	RASD family, member 2	3.034	2.13E-07
94244	Fkbp6	FK506 binding protein 6, 36kDa	3.031	9.11E-09
68468	Ly6G6C	lymphocyte antigen 6 complex, locus G6C	3.025	3.09E-09
100705	Acacb	acetyl-CoA carboxylase beta	3.019	6.37E-07
11674	Aldoa	aldolase A, fructose-bisphosphate	2.936	1.44E-03
20969	Sdc1	syndecan 1	2.932	9.53E-09
243369	Cyb5A	cytochrome b5 type A (microsomal)	2.896	8.40E-09
114874	Ddhd1	DDHD domain containing 1	2.894	1.74E-10
22413	Wnt2	wingless-type MMTV integration site family member 2	2.892	1.68E-08
74134	Cyp2S1	cytochrome P450, family 2, subfamily S, polypeptide 1	2.890	6.13E-04
17748	Mt1F	metallothionein 1F	2.872	3.85E-07
16197	IL7R	interleukin 7 receptor	2.860	4.79E-05
22223	Uchl1	ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesterase)	2.858	3.91E-02
14784	Grb2	growth factor receptor-bound protein 2	2.850	6.67E-10
210573	Tmem151B	transmembrane protein 151B	2.850	1.27E-09
229277	Stoml3	stomatin (EPB72)-like 3	2.834	1.27E-07
74574	Aqpep	laeverin	2.828	4.60E-06
11988	Slc7A2	solute carrier family 7 (cationic amino acid transporter, y+ system), member 2	2.825	7.19E-03
16421	Itgb7	integrin, beta 7	2.813	6.00E-07
18162	Npr3	natriuretic peptide receptor C/guanylate cyclase C (atrionatriuretic peptide receptor C)	2.809	1.64E-08
238076	Kcns3	potassium voltage-gated channel, delayed-rectifier, subfamily S, member 3	2.799	2.02E-04
18740	Pitx1	paired-like homeodomain 1	2.789	8.72E-10
213783	Plekhg1	pleckstrin homology domain containing, family G (with RhoGef domain) member 1	2.749	3.54E-07
54219	Cd320	CD320 molecule	2.725	1.62E-06
330450	Far2	fatty acyl CoA reductase 2	2.721	9.61E-08
106522	Pkdcc	protein kinase domain containing, cytoplasmic homolog (mouse)	2.708	2.88E-05
71973	Rbpms2	RNA binding protein with multiple splicing 2	2.698	1.76E-06
234593	NdrG4	NDRG family member 4	2.685	1.71E-02
320038	Dlx6Os1	Dlx6 opposite strand transcript 1	2.680	5.80E-06
75934	4930579D07Rik	RIKEN cDNA 4930579D07 gene	2.661	2.48E-07
70548	5730437C12Rik	RIKEN cDNA 5730437C12 gene	2.628	1.23E-05
77627	Efcab6	EF-hand calcium binding domain 6	2.612	3.71E-08
22166	Txn	thioredoxin	2.610	2.53E-06
19715	Loc388559	similar to hCG1778601	2.603	7.35E-08
101258	Gm1965	predicted gene 1965	2.595	2.47E-05
545156	Kalrn	kalirin, RhoGEF kinase	2.588	7.38E-10
11922	Neurod6	neurogenic differentiation 6	2.574	9.85E-06
16157	IL11Ra	interleukin 11 receptor, alpha	2.570	6.98E-08
229900	Gbp7	guanylate binding protein 7	2.570	2.01E-03
67166	ArI8B	ADP-ribosylation factor-like 8B	2.569	1.97E-04
26414	Mapk10	mitogen-activated protein kinase 10	2.556	1.55E-07
338367	Myo1D	myosin ID	2.547	9.19E-08
14314	Fstl1	follistatin-like 1	2.546	7.74E-04
18027	Nfia	nuclear factor I/A	2.542	4.20E-08
69834	Rab43	RAB43, member RAS oncogene family	2.542	2.87E-09
20614	Snap25	synaptosomal-associated protein, 25kDa	2.533	1.17E-06
13197	Gadd45A	growth arrest and DNA-damage-inducible, alpha	2.519	4.97E-06
16858	Lgals7	lectin, galactoside-binding, soluble, 7	2.519	2.99E-02
15424	Hoxc5	homeobox C5	2.516	7.42E-08
71305	Sgms2	sphingomyelin synthase 2	2.504	3.66E-05
75051	C2Orf77	chromosome 2 open reading frame 77	2.504	1.63E-06
102857	Slc6A8	solute carrier family 6 (neurotransmitter transporter, creatine), member 8	2.500	6.67E-03
75590	Dusp9	dual specificity phosphatase 9	2.493	1.74E-02
73822	C19Orf28	chromosome 19 open reading frame 28	2.467	1.45E-05
11605	Gla	galactosidase, alpha	2.450	1.88E-06
11576	Afp	alpha-fetoprotein	2.447	3.45E-03
319974	Auts2	autism susceptibility candidate 2	2.444	1.77E-07
329828	Kiaa1161	KIAA1161	2.444	4.79E-05
328977	Znf532	zinc finger protein 532	2.439	1.90E-09
211286	Cln5	ceroid-lipofuscinosis, neuronal 5	2.433	5.61E-04

74008	Arsg	arylsulfatase G	2.432	5.20E-08
104174	Gldc	glycine dehydrogenase (decarboxylating)	2.430	1.64E-06
223921	Aaas	achalasia, adrenocortical insufficiency, alacrimia (Allgrove, triple-A)	2.430	9.42E-07
19023	Ppef2	protein phosphatase, EF-hand calcium binding domain 2	2.423	3.47E-08
238871	Pde4D	phosphodiesterase 4D, cAMP-specific (phosphodiesterase E3 dunce homolog, Drosophila)	2.410	1.18E-08
218820	Znf503	zinc finger protein 503	2.408	4.55E-06
14387	Gaa	glucosidase, alpha; acid	2.388	2.05E-05
16001	Igf1R	insulin-like growth factor 1 receptor	2.388	4.75E-05
17681	Msc	musculin	2.383	1.04E-08
12927	Bcar1	breast cancer anti-estrogen resistance 1	2.382	9.56E-05
14758	Gpm6B	glycoprotein M6B	2.382	1.40E-04
57296	Serpina3C	serine (or cysteine) peptidase inhibitor, clade A, member 3C	2.377	4.09E-06
13490	Drd3	dopamine receptor D3	2.369	1.47E-06
269116	Nfasc	neurofascin homolog (chicken)	2.369	1.74E-08
12010	B2M	beta-2-microglobulin	2.367	6.58E-06
107376	E330013P04Rik	RIKEN cDNA E330013P04 gene	2.362	3.31E-05
218236	Fam120A	family with sequence similarity 120A	2.362	2.23E-07
22337	Vdr	vitamin D (1,25- dihydroxyvitamin D3) receptor	2.359	9.19E-05
21339	Taf1A	TATA box binding protein (TBP)-associated factor, RNA polymerase I, A, 48kDa	2.355	1.00E-05
50754	Fbxw7	F-box and WD repeat domain containing 7	2.354	9.18E-08
56209	Ggt1	gamma-glutamyltransferase 1	2.349	1.17E-07
18387	Oprk1	opioid receptor, kappa 1	2.338	1.99E-07
67963	Npc2	Niemann-Pick disease, type C2	2.336	6.33E-06
19186	Psme1	proteasome (prosome, macropain) activator subunit 1 (PA28 alpha)	2.326	3.40E-06
12038	Bche	butyrylcholinesterase	2.317	1.77E-05
22259	Nr1H3	nuclear receptor subfamily 1, group H, member 3	2.299	2.38E-06
15277	Hk2	hexokinase 2	2.289	7.49E-06
433375	Creg1	cellular repressor of E1A-stimulated genes 1	2.269	4.45E-07
102242	Au024180	expressed sequence AU024180	2.247	1.60E-06
20681	Sox8	SRY (sex determining region Y)-box 8	2.245	8.20E-06
16832	Ldhb	lactate dehydrogenase B	2.236	2.58E-06
16668	Krt18	keratin 18	2.233	4.82E-07
110911	Cds2	CDP-diacylglycerol synthase (phosphatidate cytidyltransferase) 2	2.230	1.06E-04
98999	Znfx1	zinc finger, NFX1-type containing 1	2.225	1.71E-04
100993	Aw549542	expressed sequence AW549542	2.222	1.87E-08
17436	Me1	malic enzyme 1, NADP(+)-dependent, cytosolic	2.222	6.51E-03
16145	Igtp	interferon gamma induced GTPase	2.198	1.34E-04
214899	Kdm5A	lysine (K)-specific demethylase 5A	2.187	2.08E-06
102294	Cyp4V2	cytochrome P450, family 4, subfamily V, polypeptide 2	2.180	9.38E-05
11992	Auh	AU RNA binding protein/enoyl-CoA hydratase	2.175	3.74E-05
19662	Rbp4	retinol binding protein 4, plasma	2.175	6.14E-05
20322	Sord	sorbitol dehydrogenase	2.175	1.07E-06
12301	Cacybp	calcyclin binding protein	2.173	4.68E-06
233529	Kctd14	potassium channel tetramerisation domain containing 14	2.172	4.38E-06
27660	C22Orf23	chromosome 22 open reading frame 23	2.172	8.65E-05
230597	Zfyve9	zinc finger, FYVE domain containing 9	2.164	3.49E-05
13368	Dffb	DNA fragmentation factor, 40kDa, beta polypeptide (caspase-activated DNase)	2.163	5.95E-05
59027	Nampt	nicotinamide phosphoribosyltransferase	2.163	6.35E-05
14240	Foxb2	forkhead box B2	2.158	2.41E-06
107569	Nt5C3	5'-nucleotidase, cytosolic III	2.155	1.46E-06
268451	Rab11Fip4	RAB11 family interacting protein 4 (class II)	2.154	6.62E-04
56382	Hspd1	heat shock 60kDa protein 1 (chaperonin)	2.152	3.74E-05
11641	Akap2	A kinase (PRKA) anchor protein 2	2.142	5.52E-07
13544	Dvl3	dishevelled, dsh homolog 3 (Drosophila)	2.139	5.86E-06
27354	Nbn	nibrin	2.139	9.36E-08
18534	Pck1	phosphoenolpyruvate carboxykinase 1 (soluble)	2.136	3.80E-05
76429	Lhpp	phospholysine phosphohistidine inorganic pyrophosphate phosphatase	2.127	1.41E-03
230709	Zmpste24	zinc metallopeptidase (STE24 homolog, S. cerevisiae)	2.126	2.33E-04
12159	Bmp4	bone morphogenetic protein 4	2.120	2.60E-07
13014	Cstb	cystatin B (stefin B)	2.113	3.00E-07
17988	Ndrp1	N-myc downstream regulated 1	2.104	1.27E-04
30057	Col3A1	collagen, type III, alpha 1	2.104	5.37E-07
14462	Gata3	GATA binding protein 3	2.097	4.15E-06

17295	Met	met proto-oncogene (hepatocyte growth factor receptor)	2.097	9.35E-05
56222	Cited4	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 4	2.097	1.48E-03
11535	Adm	adrenomedullin	2.092	3.20E-07
330222	Sdk1	sidekick homolog 1, cell adhesion molecule (chicken)	2.092	2.55E-05
110521	Hivep1	human immunodeficiency virus type I enhancer binding protein 1	2.079	4.11E-06
226861	Hhat	hedgehog acyltransferase	2.079	1.75E-06
20846	Stat1	signal transducer and activator of transcription 1, 91kDa	2.078	1.87E-04
16533	Kcnmb1	potassium large conductance calcium-activated channel, subfamily M, beta member 1	2.072	1.54E-02
12622	Cer1	cerberus 1, cysteine knot superfamily, homolog (Xenopus laevis)	2.063	3.26E-03
19672	Rcn1	reticulocalbin 1, EF-hand calcium binding domain	2.063	2.31E-04
14609	Gja1	gap junction protein, alpha 1, 43kDa	2.062	1.35E-04
13885	Esd	esterase D	2.061	5.93E-04
11429	Aco2	aconitase 2, mitochondrial	2.058	5.74E-06
64164	Tor1Aip2	torsin A interacting protein 2	2.053	3.32E-05
16917	Lmx1B	LIM homeobox transcription factor 1, beta	2.052	1.25E-04
54120	Snai1	snail homolog 1 (Drosophila)	2.048	1.83E-02
55948	Sfn	stratifin	2.046	5.33E-06
16776	Lama5	laminin, alpha 5	2.042	3.59E-07
235611	Plxnb1	plexin B1	2.038	1.93E-06
12798	Cnn2	calponin 2	2.036	3.59E-05
66725	Lrrk2	leucine-rich repeat kinase 2	2.032	1.23E-07
14972	Hla-C	major histocompatibility complex, class I, C	2.031	9.21E-05
17933	Myt1L	myelin transcription factor 1-like	2.031	1.65E-04
242202	Pde5A	phosphodiesterase 5A, cGMP-specific	2.031	7.82E-05
16590	Kit	v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog	2.022	7.37E-04
24099	Tnfsf13B	tumor necrosis factor (ligand) superfamily, member 13b	2.022	8.56E-05
20393	Sgk1	serum/glucocorticoid regulated kinase 1	2.018	2.36E-06
66168	Grina	glutamate receptor, ionotropic, N-methyl D-aspartate-associated protein 1 (glutamate binding)	2.018	1.31E-04
17341	Bhlha15	basic helix-loop-helix family, member a15	2.017	1.32E-03
109032	Sp110	SP110 nuclear body protein	2.013	3.11E-03
15171	Hcrt	hypocretin (orexin) neuropeptide precursor	2.013	2.50E-06
20847	Stat2	signal transducer and activator of transcription 2, 113kDa	2.011	1.51E-05
72821	Scn2B	sodium channel, voltage-gated, type II, beta	2.011	6.78E-06
56615	King1	kininogen 1	2.010	4.27E-04
98103	C76454	expressed sequence C76454	2.004	4.47E-06
228812	Pigu	phosphatidylinositol glycan anchor biosynthesis, class U	2.000	2.93E-06
217946	Cdca7L	cell division cycle associated 7-like	1.999	7.04E-03
13430	Dnm2	dynamamin 2	1.994	4.57E-05
64292	Ptges	prostaglandin E synthase	1.994	8.71E-06
11746	Anxa4	annexin A4	1.993	4.44E-04
20531	Slc34A2	solute carrier family 34 (sodium phosphate), member 2	1.989	2.75E-05
170771	Khdrbs2	KH domain containing, RNA binding, signal transduction associated 2	1.988	5.89E-05
22601	Yap1	Yes-associated protein 1	1.982	2.54E-04
66790	Grtp1	growth hormone regulated TBC protein 1	1.982	6.06E-04
22287	Scgb1A1	secretoglobin, family 1A, member 1 (uteroglobin)	1.981	2.65E-05
56312	Nupr1	nuclear protein, transcriptional regulator, 1	1.981	1.11E-03
18655	Pgk1	phosphoglycerate kinase 1	1.979	1.11E-02
11790	Speg	SPEG complex locus	1.978	6.29E-09
12317	Calr	calreticulin	1.977	2.27E-03
242509	Bnc2	basonuclin 2	1.977	6.39E-07
213956	Fam83F	family with sequence similarity 83, member F	1.974	7.39E-04
13123	Cyp7B1	cytochrome P450, family 7, subfamily B, polypeptide 1	1.971	7.86E-05
20410	Sorbs3	sorbin and SH3 domain containing 3	1.971	2.27E-03
83768	Dpp7	dipeptidyl-peptidase 7	1.967	2.40E-04
56738	Mocs1	molybdenum cofactor synthesis 1	1.964	2.03E-06
98741	Kcnb2	potassium voltage-gated channel, Shab-related subfamily, member 2	1.962	5.47E-07
104804	Ston2	stonin 2	1.959	6.19E-03
244631	Pskh1	protein serine kinase H1	1.959	1.11E-06
14828	Hspa5	heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa)	1.957	1.41E-06
70806	C10Orf79	chromosome 10 open reading frame 79	1.957	3.83E-07
22226	Ucn	urocortin	1.955	1.02E-02
51897	Kiaa0652	KIAA0652	1.953	3.85E-04

14733	Gpc1	glypican 1	1.951	1.88E-03
16179	Irak1	interleukin-1 receptor-associated kinase 1	1.947	7.92E-06
208618	Kiaa1217	KIAA1217	1.939	2.39E-06
19664	Rbpj	recombination signal binding protein for immunoglobulin kappa J region	1.937	1.81E-06
19933	Rpl21	ribosomal protein L21	1.937	2.17E-03
73061	3110007F17Rik	RIKEN cDNA 3110007F17 gene	1.936	2.05E-03
18016	Nf2	neurofibromin 2 (merlin)	1.935	2.72E-06
230073	Ddx58	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58	1.935	2.62E-05
21355	Tap2	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)	1.931	5.83E-05
231832	Tmem184A	transmembrane protein 184A	1.931	9.94E-06
13642	Efnb2	ephrin-B2	1.929	9.78E-07
68916	Cdkal1	CDK5 regulatory subunit associated protein 1-like 1	1.929	2.40E-05
15371	Hmx1	H6 family homeobox 1	1.923	2.74E-04
219189	Kiaa0564	KIAA0564	1.923	9.12E-06
22414	Wnt2B	wingless-type MMTV integration site family, member 2B	1.921	4.18E-02
11603	Agri	agrin	1.919	1.39E-03
15213	Hey1	hairy/enhancer-of-split related with YRPW motif 1	1.919	2.18E-04
56434	Igf1	insulin-like growth factor 1 (somatomedin C)	1.915	2.50E-08
223739	C22Orf9	chromosome 22 open reading frame 9	1.912	1.64E-05
14319	Fth1	ferritin, heavy polypeptide 1	1.907	4.87E-06
13171	Dbt	dihydrolipoamide branched chain transacylase E2	1.904	2.27E-07
53417	Hif3A	hypoxia inducible factor 3, alpha subunit	1.904	8.20E-04
23950	Dnajb6	DnaJ (Hsp40) homolog, subfamily B, member 6	1.903	5.44E-05
22042	Tfrc	transferrin receptor (p90, CD71)	1.901	1.11E-03
207181	Rbms3	RNA binding motif, single stranded interacting protein 3	1.899	2.86E-03
226041	Pgm5	phosphoglucomutase 5	1.899	8.57E-05
15208	Hes5	hairy and enhancer of split 5 (Drosophila)	1.897	2.13E-06
269774	Aak1	AP2 associated kinase 1	1.889	4.11E-04
13998	Fgd6	FYVE, RhoGEF and PH domain containing 6	1.888	8.43E-07
66427	Cyb5B	cytochrome b5 type B (outer mitochondrial membrane)	1.887	4.02E-02
321007	Serac1	serine active site containing 1	1.886	8.86E-08
192197	Ceacam1	carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein)	1.883	7.99E-03
68140	Tigd2	tigger transposable element derived 2	1.883	1.86E-03
68842	Tulp4	tubby like protein 4	1.882	1.37E-04
13209	Ddx6	DEAD (Asp-Glu-Ala-Asp) box polypeptide 6	1.880	4.82E-05
15108	Hsd17B10	hydroxysteroid (17-beta) dehydrogenase 10	1.880	2.44E-05
108927	Lhfp	lipoma HMGIC fusion partner	1.879	7.80E-04
71007	C10Orf90	chromosome 10 open reading frame 90	1.879	2.13E-04
381693	4930434E21Rik	RIKEN cDNA 4930434E21 gene	1.878	1.56E-05
18563	Pc	pyruvate carboxylase	1.876	3.13E-03
64138	Ctsz	cathepsin Z	1.873	5.96E-07
19213	Ptf1A	pancreas specific transcription factor, 1a	1.871	2.06E-03
21849	Trim28	tripartite motif-containing 28	1.870	2.92E-03
20652	Soat1	sterol O-acyltransferase 1	1.863	8.43E-04
230234	C9Orf6	chromosome 9 open reading frame 6	1.861	1.64E-05
328066	C920021A13	hypothetical protein C920021A13	1.853	3.17E-05
60367	Il1Rap2	interleukin 1 receptor accessory protein-like 2	1.853	4.00E-03
270163	Myo9A	myosin IXA	1.849	1.26E-06
27028	Ermap	erythroblast membrane-associated protein (Scianna blood group)	1.849	6.70E-06
114643	Oas1C	2'-5' oligoadenylate synthetase 1C	1.843	1.11E-05
19718	Rfc2	replication factor C (activator 1) 2, 40kDa	1.843	7.47E-07
67153	Rnaseh2B	ribonuclease H2, subunit B	1.843	3.59E-04
14238	Foxf2	forkhead box F2	1.840	7.04E-05
16952	Anxa1	annexin A1	1.840	5.69E-03
278097	Armcx6	armadillo repeat containing, X-linked 6	1.840	6.20E-07
22384	Eif4H	eukaryotic translation initiation factor 4H	1.837	1.09E-05
399510	Map4K5	mitogen-activated protein kinase kinase kinase kinase 5	1.835	9.70E-03
18746	Pkm2	pyruvate kinase, muscle	1.833	2.73E-04
54369	Nme6	non-metastatic cells 6, protein expressed in (nucleoside-diphosphate kinase)	1.830	4.46E-04
67854	Slco6A1	solute carrier organic anion transporter family, member 6A1	1.830	8.58E-06
109082	Fbxw17	F-box and WD-40 domain protein 17	1.829	7.96E-04
79201	Tnfrsf23	tumor necrosis factor receptor superfamily, member 23	1.828	1.15E-03
381511	Pdp1	pyruvate dehydrogenase phosphatase catalytic subunit 1	1.825	2.76E-04
100535	Oas1D	2'-5' oligoadenylate synthetase 1D	1.821	2.84E-04
22682	Zfand5	zinc finger, AN1-type domain 5	1.820	2.38E-03

108116	Slco3A1	solute carrier organic anion transporter family, member 3A1	1.819	3.90E-04
380711	Rap1Gap2	RAP1 GTPase activating protein 2	1.819	2.19E-04
18631	Pex11A	peroxisomal biogenesis factor 11 alpha	1.816	1.58E-06
14182	Fgfr1	fibroblast growth factor receptor 1	1.811	1.75E-04
14607	Gip	gastric inhibitory polypeptide	1.811	4.32E-04
16400	Itga3	integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor)	1.810	1.46E-04
83924	Gpr137B	G protein-coupled receptor 137B	1.810	1.19E-03
235406	Snx33	sorting nexin 33	1.809	4.38E-03
71506	8430436O14Rik	RIKEN cDNA 8430436O14 gene	1.809	1.97E-04
15258	Hipk2	homeodomain interacting protein kinase 2	1.800	2.40E-04
20671	Sox17	SRY (sex determining region Y)-box 17	1.800	3.75E-05
52840	Dbn1d2	dysbindin (dystrobrevin binding protein 1) domain containing 2	1.800	4.97E-02
14680	Gnal	guanine nucleotide binding protein (G protein), alpha activating activity polypeptide, olfactory type	1.795	2.49E-05
14104	Fasn	fatty acid synthase	1.793	2.26E-02
11958	Atp5I	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit E	1.791	7.67E-06
22381	Wbp5	WW domain binding protein 5	1.791	3.44E-05
67103	Ptgr1	prostaglandin reductase 1	1.790	1.98E-03
71207	Nudt4	nudix (nucleoside diphosphate linked moiety X)-type motif 4	1.788	1.39E-02
16416	Itgb3	integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)	1.786	1.01E-05
68018	Col4A3Bp	collagen, type IV, alpha 3 (Goodpasture antigen) binding protein	1.785	6.25E-05
233865	Kiaa0556	KIAA0556	1.780	2.50E-04
70031	Cmtm8	CKLF-like MARVEL transmembrane domain containing 8	1.780	1.18E-03
14786	Grb7	growth factor receptor-bound protein 7	1.779	4.77E-02
73443	1700052I12Rik	RIKEN cDNA 1700052I12 gene	1.779	1.61E-05
108897	Aif1L	allograft inflammatory factor 1-like	1.776	1.32E-04
103968	Plin1	perilipin 1	1.773	1.29E-04
101985	C16Orf57	chromosome 16 open reading frame 57	1.772	1.13E-03
21414	Tcf7	transcription factor 7 (T-cell specific, HMG-box)	1.772	4.16E-03
14428	Galr2	galanin receptor 2	1.770	1.65E-06
14739	S1Pr2	sphingosine-1-phosphate receptor 2	1.770	1.07E-06
52466	Slc46A1	solute carrier family 46 (folate transporter), member 1	1.770	1.83E-03
13163	Daxx	death-domain associated protein	1.768	6.64E-03
14085	Fah	fumarylacetoacetate hydrolase (fumarylacetoacetase)	1.768	1.87E-07
16337	Insr	insulin receptor	1.767	3.28E-02
223255	Stk24	serine/threonine kinase 24 (STE20 homolog, yeast)	1.767	3.45E-04
70861	4921521F21Rik	RIKEN cDNA 4921521F21 gene	1.767	5.00E-05
54418	Fmn2	formin 2	1.765	4.46E-06
27428	Shroom3	shroom family member 3	1.764	7.30E-06
69104	March5	membrane-associated ring finger (C3HC4) 5	1.764	4.54E-04
13664	Eif1Ay	eukaryotic translation initiation factor 1A, Y-linked	1.761	4.59E-03
14595	B4Galt1	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 1	1.761	1.14E-05
15874	Iapp	islet amyloid polypeptide	1.759	2.93E-02
58235	Pvrl1	poliovirus receptor-related 1 (herpesvirus entry mediator C)	1.759	3.50E-05
13360	Dhcr7	7-dehydrocholesterol reductase	1.758	3.05E-02
69217	Plekha4	pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 4	1.758	3.93E-04
20908	Stx3	syntaxin 3	1.757	7.39E-05
244349	Myst3	MYST histone acetyltransferase (monocytic leukemia) 3	1.754	6.00E-06
13363	Dhh	desert hedgehog homolog (Drosophila)	1.752	2.91E-02
18791	Plat	plasminogen activator, tissue	1.752	2.40E-04
18551	Pcsk4	proprotein convertase subtilisin/kexin type 4	1.748	5.70E-03
19242	Ptn	pleiotrophin	1.746	4.83E-05
69053	C16Orf72	chromosome 16 open reading frame 72	1.746	1.53E-04
18717	Pip5K1C	phosphatidylinositol-4-phosphate 5-kinase, type I, gamma	1.742	4.76E-02
54189	Htr1F	5-hydroxytryptamine (serotonin) receptor 1F	1.741	9.67E-06
216363	Rab3Ip	RAB3A interacting protein (rabin3)	1.740	1.30E-05
14873	Gsto1	glutathione S-transferase omega 1	1.739	1.24E-03
17387	Mmp14	matrix metalloproteinase 14 (membrane-inserted)	1.737	1.12E-02
228775	Trib3	tribbles homolog 3 (Drosophila)	1.735	1.12E-03
72039	Mccc1	methylcrotonoyl-CoA carboxylase 1 (alpha)	1.734	1.59E-06
14829	Grpr	gastrin-releasing peptide receptor	1.733	4.10E-04
22195	Ube2L3	ubiquitin-conjugating enzyme E2L 3	1.731	1.36E-04

242819	Rundc3B	RUN domain containing 3B	1.730	4.92E-07
73204	3110056K07Rik	RIKEN cDNA 3110056K07 gene	1.729	1.00E-05
75723	Amotl1	angiomin like 1	1.729	1.19E-02
16878	Lif	leukemia inhibitory factor (cholinergic differentiation factor)	1.728	3.52E-02
218624	Il31Ra	interleukin 31 receptor A	1.725	1.00E-02
170644	Ubn1	ubiquitin 1	1.724	2.24E-05
216134	Pdxk	pyridoxal (pyridoxine, vitamin B6) kinase	1.724	5.80E-04
13167	Dbi	diazepam binding inhibitor (GABA receptor modulator, acyl-CoA binding protein)	1.723	1.04E-07
75564	Rsph9	radial spoke head 9 homolog (Chlamydomonas)	1.723	6.22E-03
18555	Cdk16	cyclin-dependent kinase 16	1.722	1.04E-02
20597	Smpd1	sphingomyelin phosphodiesterase 1, acid lysosomal	1.721	4.27E-04
209630	Frmd4A	FERM domain containing 4A	1.721	9.98E-06
16323	Inhba	inhibin, beta A	1.718	4.11E-02
16663	Krt13	keratin 13	1.718	3.41E-02
68703	Rere	arginine-glutamic acid dipeptide (RE) repeats	1.718	1.82E-04
18550	Furin	furin (paired basic amino acid cleaving enzyme)	1.717	1.81E-02
67896	Ccdc80	coiled-coil domain containing 80	1.717	2.24E-02
19206	Ptch1	patched homolog 1 (Drosophila)	1.716	3.77E-02
235580	Loc344875	collagen, type VI, alpha 4 pseudogene 1	1.714	1.89E-03
55991	Cox5B	cytochrome c oxidase subunit Vb	1.712	8.69E-07
18096	Nkx6-1	NK6 homeobox 1	1.711	3.09E-02
54138	Sox10	SRY (sex determining region Y)-box 10	1.709	3.88E-06
105732	Fam83H	family with sequence similarity 83, member H	1.708	2.28E-03
56422	Hbs1L	HBS1-like (S. cerevisiae)	1.706	3.57E-04
235380	Dmxl2	Dmx-like 2	1.704	1.73E-05
68034	Fam122A	family with sequence similarity 122A	1.704	4.39E-07
66282	C4orf43	chromosome 4 open reading frame 43	1.703	2.28E-04
11921	Atoh1	atoh1 homolog 1 (Drosophila)	1.698	2.73E-04
16173	Il18	interleukin 18 (interferon-gamma-inducing factor)	1.698	2.65E-02
67703	Kirrel3	kin of IRRE like 3 (Drosophila)	1.698	1.16E-03
140488	Igf2bp3	insulin-like growth factor 2 mRNA binding protein 3	1.697	2.05E-04
17390	Mmp2	matrix metalloproteinase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase)	1.697	4.30E-02
110333	Rmst	rhabdomyosarcoma 2 associated transcript (non-coding RNA)	1.696	2.17E-04
234729	Vac14	Vac14 homolog (S. cerevisiae)	1.695	1.32E-03
11433	Acp5	acid phosphatase 5, tartrate resistant	1.692	8.38E-05
12353	Ca6	carbonic anhydrase VI	1.691	4.07E-02
19719	Rfng	RFNG O-fucosyltransferase 3-beta-N-acetylglucosaminyltransferase	1.691	6.31E-03
17130	Smad6	SMAD family member 6	1.690	2.83E-02
218793	Ube2E2	ubiquitin-conjugating enzyme E2E 2 (UBC4/5 homolog, yeast)	1.690	4.40E-04
74325	Cltb	clathrin, light chain B	1.690	4.37E-03
12804	Loc100289404	similar to Cytochrome c oxidase subunit 2	1.689	4.15E-05
19703	Renbp	renin binding protein	1.685	2.98E-05
13026	Pcyt1A	phosphate cytidylyltransferase 1, choline, alpha	1.684	3.32E-05
77065	Ints7	integrator complex subunit 7	1.684	1.27E-04
434410	Loc434410	hypothetical LOC434410	1.682	2.54E-05
52615	Suz12	suppressor of zeste 12 homolog (Drosophila)	1.682	1.19E-06
54403	A130082M07Rik	RIKEN cDNA A130082M07 gene	1.682	8.12E-05
68157	6720475J19Rik	RIKEN cDNA 6720475J19 gene	1.682	1.68E-04
14866	Gstm3	glutathione S-transferase mu 3 (brain)	1.681	4.54E-05
83560	Tex14	testis expressed 14	1.681	1.02E-06
20610	Sumo3	SMT3 suppressor of mif two 3 homolog 3 (S. cerevisiae)	1.679	6.60E-04
67526	Atg12	ATG12 autophagy related 12 homolog (S. cerevisiae)	1.679	4.31E-05
104880	Vash1	vasohibin 1	1.678	1.16E-02
19049	Ppp1R1B	protein phosphatase 1, regulatory (inhibitor) subunit 1B	1.678	1.79E-03
320772	Mdga2	MAM domain containing glycosylphosphatidylinositol anchor 2	1.678	5.78E-04
104082	Wdr7	WD repeat domain 7	1.675	2.22E-05
268903	Nrip1	nuclear receptor interacting protein 1	1.675	2.73E-03
18033	Nfkb1	nuclear factor of kappa light polypeptide gene enhancer in B-cells 1	1.674	5.26E-04
16186	Il2Rg	interleukin 2 receptor, gamma (severe combined immunodeficiency)	1.672	6.15E-04
14368	Fzd6	frizzled homolog 6 (Drosophila)	1.671	1.41E-04
18223	Numb1	numb homolog (Drosophila)-like	1.670	1.71E-02

68801	Elov15	ELOVL family member 5, elongation of long chain fatty acids (FEN1/Elo2, SUR4/Elo3-like, yeast)	1.670	8.22E-04
77481	C030048H21Rik	RIKEN cDNA C030048H21 gene	1.670	1.97E-05
97230	C78228	expressed sequence C78228	1.670	2.40E-06
102103	Mtus1	microtubule associated tumor suppressor 1	1.669	5.58E-03
21821	Ift88	intraflagellar transport 88 homolog (Chlamydomonas)	1.668	3.27E-04
224648	Uhrf1Bp1	UHRF1 binding protein 1	1.668	3.68E-03
105859	Csdc2	cold shock domain containing C2, RNA binding	1.667	1.41E-04
17829	Muc1	mucin 1, cell surface associated	1.667	4.46E-02
217864	Rcor1	REST corepressor 1	1.667	7.59E-06
380773	C14Orf156	chromosome 14 open reading frame 156	1.667	2.43E-03
73674	Wdr75	WD repeat domain 75	1.667	4.62E-05
13388	Dll1	delta-like 1 (Drosophila)	1.666	3.12E-02
68493	Ndufaf4	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, assembly factor 4	1.666	5.55E-03
81910	Rrbp1	ribosome binding protein 1 homolog 180kDa (dog)	1.666	2.23E-07
170749	Mtmr4	myotubularin related protein 4	1.664	4.37E-06
26362	Axl	AXL receptor tyrosine kinase	1.664	1.25E-05
16499	Kcnab3	potassium voltage-gated channel, shaker-related subfamily, beta member 3	1.663	1.64E-05
18129	Notch2	Notch homolog 2 (Drosophila)	1.662	1.69E-02
109279	9530010C24Rik	RIKEN cDNA 9530010C24 gene	1.661	5.59E-04
12424	Cck	cholecystokinin	1.661	3.44E-02
70455	2610203C20Rik	RIKEN cDNA 2610203C20 gene	1.661	3.03E-04
22421	Wnt7A	wingless-type MMTV integration site family, member 7A	1.660	1.39E-02
72590	Ppme1	protein phosphatase methylesterase 1	1.660	1.53E-03
73582	C2Orf34	chromosome 2 open reading frame 34	1.660	5.48E-04
12166	Bmpr1A	bone morphogenetic protein receptor, type IA	1.656	1.90E-05
18263	Odc1	ornithine decarboxylase 1	1.656	1.40E-03
272031	Lppr1	lipid phosphate phosphatase-related protein type 1	1.656	3.03E-04
329252	Lgr6	leucine-rich repeat-containing G protein-coupled receptor 6	1.656	1.10E-05
57440	Ehd3	EH-domain containing 3	1.656	4.09E-03
18131	Notch3	Notch homolog 3 (Drosophila)	1.655	2.50E-02
215409	Adamts1	ADAMTS-like 1	1.655	4.07E-04
368204	Khdc1L	KH homology domain containing 1-like	1.654	1.10E-04
12307	Calb1	calbindin 1, 28kDa	1.653	2.28E-03
320118	Fbxl13	F-box and leucine-rich repeat protein 13	1.647	6.62E-04
68292	Stt3B	STT3, subunit of the oligosaccharyltransferase complex, homolog B ( <i>S. cerevisiae</i> )	1.646	8.84E-04
71281	Apobec4	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 4 (putative)	1.645	5.83E-04
20668	Sox13	SRY (sex determining region Y)-box 13	1.644	7.58E-05
101142	Itfg2	integrin alpha FG-GAP repeat containing 2	1.643	4.96E-06
18293	Ogdh	oxoglutarate (alpha-ketoglutarate) dehydrogenase (lipoamide)	1.640	8.33E-05
193670	Rnf185	ring finger protein 185	1.639	8.16E-04
20336	Exoc4	exocyst complex component 4	1.639	8.40E-04
11804	Aplp2	amyloid beta (A4) precursor-like protein 2	1.638	9.11E-04
214897	Csnk1G1	casein kinase 1, gamma 1	1.636	1.70E-04
225164	Mib1	mindbomb homolog 1 (Drosophila)	1.635	1.47E-02
101568	Vrk3	vaccinia related kinase 3	1.634	1.05E-02
53312	Nr4A1	nuclear receptor subfamily 4, group A, member 1	1.634	1.66E-04
76142	Ppp1R14C	protein phosphatase 1, regulatory (inhibitor) subunit 14C	1.632	2.58E-05
17075	Epcam	epithelial cell adhesion molecule	1.630	2.95E-03
192156	Tpm2	tropomyosin 2 (beta)	1.630	2.40E-02
50781	Dkk3	dickkopf homolog 3 ( <i>Xenopus laevis</i> )	1.630	5.15E-03
66916	Ndufb7	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 7, 18kDa	1.630	8.20E-06
74735	Trim14	tripartite motif-containing 14	1.630	9.21E-03
11363	Acadl	acyl-CoA dehydrogenase, long chain	1.629	8.55E-07
72040	Cdhr5	cadherin-related family member 5	1.629	3.25E-04
60597	Mapk8Ip2	mitogen-activated protein kinase 8 interacting protein 2	1.627	3.03E-05
16976	Lrpap1	low density lipoprotein receptor-related protein associated protein 1	1.626	8.63E-05
30877	Hla-Drb3	major histocompatibility complex, class II, DR beta 3	1.626	1.22E-02
21385	Tbx2	T-box 2	1.625	1.65E-02
22134	Tgoln2	trans-golgi network protein 2	1.623	4.19E-05
106504	Stk38	serine/threonine kinase 38	1.621	4.15E-04
107338	Gbf1	golgi brefeldin A resistant guanine nucleotide exchange factor 1	1.621	3.66E-02
64945	Cldn12	claudin 12	1.620	3.73E-03



20526	Slc2A2	solute carrier family 2 (facilitated glucose transporter), member 2	1.619	4.71E-02
19752	Rnase1	ribonuclease, RNase A family, 1 (pancreatic)	1.618	1.08E-02
226089	Kiaa1432	KIAA1432	1.618	2.98E-03
13601	Ecm1	extracellular matrix protein 1	1.617	3.94E-02
14171	Fgf17	fibroblast growth factor 17	1.617	3.14E-02
17769	Mthfr	methylenetetrahydrofolate reductase (NAD(P)H)	1.616	1.13E-02
15161	Hcfc1	host cell factor C1 (VP16-accessory protein)	1.614	3.59E-04
214048	Larp1B	La ribonucleoprotein domain family, member 1B	1.614	9.74E-06
22029	Traf1	TNF receptor-associated factor 1	1.614	1.85E-05
384061	Fndc5	fibronectin type III domain containing 5	1.614	2.39E-04
78801	Ak7	adenylate kinase 7	1.613	8.73E-05
211484	Tsga10	testis specific, 10	1.612	5.31E-05
66973	Mrps18B	mitochondrial ribosomal protein S18B	1.610	7.89E-03
50765	Cdh1	cadherin 1, type 1, E-cadherin (epithelial)	1.608	4.05E-03
20262	Stmn3	stathmin-like 3	1.607	8.08E-05
18214	Ddr2	discoidin domain receptor tyrosine kinase 2	1.604	4.69E-03
20972	Syng1	synaptogyrin 1	1.603	9.75E-05
240261	Ccdc112	coiled-coil domain containing 112	1.603	8.96E-05
320181	Fndc7	fibronectin type III domain containing 7	1.603	1.16E-04
229722	Kiaa1324	KIAA1324	1.601	2.73E-06
59287	Ncstn	nicastrin	1.599	1.12E-02
67739	Slc48A1	solute carrier family 48 (heme transporter), member 1	1.599	4.19E-03
80721	Slc19A3	solute carrier family 19, member 3	1.599	4.31E-02
73658	Spns1	spinster homolog 1 (Drosophila)	1.598	4.55E-03
102193	Zdhhc7	zinc finger, DHHC-type containing 7	1.595	9.09E-03
64383	Sirt2	sirtuin (silent mating type information regulation 2 homolog) 2 (S. cerevisiae)	1.594	1.16E-02
19207	Ptch2	patched homolog 2 (Drosophila)	1.593	2.93E-02
67460	Decr1	2,4-dienoyl CoA reductase 1, mitochondrial	1.593	1.03E-04
11984	Atp6V0C	ATPase, H+ transporting, lysosomal 16kDa, V0 subunit c	1.592	5.67E-04
16372	Irx2	iroquois homeobox 2	1.591	1.44E-02
73205	C9orf72	chromosome 9 open reading frame 72	1.590	8.62E-05
93685	Entpd7	ectonucleoside triphosphate diphosphohydrolase 7	1.590	1.89E-04
12161	Bmp6	bone morphogenetic protein 6	1.589	6.30E-05
15551	Htr1B	5-hydroxytryptamine (serotonin) receptor 1B	1.589	1.74E-03
320106	Slc38A11	solute carrier family 38, member 11	1.589	3.04E-05
13057	Cyba	cytochrome b-245, alpha polypeptide	1.588	1.31E-03
214424	Parp16	poly (ADP-ribose) polymerase family, member 16	1.587	5.42E-05
227937	Pkp4	plakophilin 4	1.587	5.60E-06
103339	Au016128	expressed sequence AU016128	1.586	3.51E-05
20962	Sycp3	synaptonemal complex protein 3	1.586	2.72E-03
14313	Fst	follistatin	1.584	3.70E-02
19894	Rph3A	rabphilin 3A homolog (mouse)	1.583	3.50E-03
240888	Gpr161	G protein-coupled receptor 161	1.583	9.21E-05
11639	Ak3L1	adenylate kinase 3-like 1	1.582	4.34E-06
18548	Pcsk1	proprotein convertase subtilisin/kexin type 1	1.582	3.97E-02
320981	Enpp6	ectonucleotide pyrophosphatase/phosphodiesterase 6	1.582	1.40E-03
66223	Mrpl35	mitochondrial ribosomal protein L35	1.582	2.40E-04
NM_0311	Sctr	secretin receptor	1.582	4.87E-02
12234	Btrc	beta-transducin repeat containing	1.581	2.55E-03
227618	Lrrc26	leucine rich repeat containing 26	1.581	5.30E-04
67772	Chd8	chromodomain helicase DNA binding protein 8	1.580	4.02E-03
12315	Calm3	calmodulin 3 (phosphorylase kinase, delta)	1.577	2.87E-04
13244	Degs1	degenerative spermatocyte homolog 1, lipid desaturase (Drosophila)	1.577	4.28E-03
16783	Lamp1	lysosomal-associated membrane protein 1	1.577	1.22E-02
68212	Tmbim4	transmembrane BAX inhibitor motif containing 4	1.577	1.62E-03
70572	Ipo5	importin 5	1.577	1.11E-02
114249	Npnt	nephronectin	1.575	4.92E-04
382639	Zbtb42	zinc finger and BTB domain containing 42	1.575	1.56E-04
20389	Sftpc	surfactant protein C	1.574	3.23E-02
54683	Prdx5	peroxiredoxin 5	1.574	2.49E-03
11777	Ap3S1	adaptor-related protein complex 3, sigma 1 subunit	1.572	1.06E-02
212974	Ath11	ATH1, acid trehalase-like 1 (yeast)	1.571	5.80E-04
72640	Mex3A	mex-3 homolog A (C. elegans)	1.571	7.73E-03
15369	Hmox2	heme oxygenase (decycling) 2	1.570	5.51E-05
215280	Wipf1	WAS/WASL interacting protein family, member 1	1.569	3.27E-05
98956	Nat10	N-acetyltransferase 10 (GCN5-related)	1.569	5.03E-03
11632	Aip	aryl hydrocarbon receptor interacting protein	1.568	4.74E-03
15364	Hmga2	high mobility group AT-hook 2	1.567	7.04E-06

407785	Ndufs6	NADH dehydrogenase (ubiquinone) Fe-S protein 6, 13kDa (NADH-coenzyme Q reductase)	1.567	5.98E-06
70484	Slc35D2	solute carrier family 35, member D2	1.566	8.74E-05
59009	Sh3Rf1	SH3 domain containing ring finger 1	1.565	1.66E-05
22694	Zfp35	zinc finger protein 35	1.564	9.42E-04
230075	Ndufb6	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 6, 17kDa	1.564	8.79E-05
231642	Alkbh2	alkB, alkylation repair homolog 2 (E. coli)	1.564	2.92E-03
216725	Adamts2	ADAM metalloproteinase with thrombospondin type 1 motif, 2	1.563	9.18E-05
381226	Hpse2	heparanase 2	1.562	4.67E-05
12922	Crhr2	corticotropin releasing hormone receptor 2	1.559	1.83E-04
14237	Foxd4L1	forkhead box D4-like 1	1.559	3.03E-03
194952	Jmjd4	jumonji domain containing 4	1.559	5.03E-03
23922	Rn7Sk	RNA, 7SK small nuclear	1.559	5.80E-03
66286	Sec11C	SEC11 homolog C (S. cerevisiae)	1.559	2.58E-05
67588	Rnf41	ring finger protein 41	1.559	4.82E-05
13047	Cux1	cut-like homeobox 1	1.558	3.55E-02
66653	Brf2	BRF2, subunit of RNA polymerase III transcription initiation factor, BRF1-like	1.558	1.59E-03
59020	Pdzk1	PDZ domain containing 1	1.557	7.44E-04
12387	Ctnnb1	catenin (cadherin-associated protein), beta 1, 88kDa	1.556	1.60E-02
140887	Ln timer	ligand of numb-protein X 2	1.556	1.16E-03
98715	Soat1	sterol O-acyltransferase 1	1.556	1.20E-02
104458	Rars	arginyl-tRNA synthetase	1.554	6.33E-04
224656	Znf76	zinc finger protein 76 (expressed in testis)	1.554	9.36E-04
14620	Gjb3	gap junction protein, beta 3, 31kDa	1.553	3.16E-06
18475	Pafah1B2	platelet-activating factor acetylhydrolase 1b, catalytic subunit 2 (30kDa)	1.553	1.06E-04
71069	Stox2	storkhead box 2	1.553	2.11E-04
75778	Them4	thioesterase superfamily member 4	1.553	2.59E-02
24109	Ubl3	ubiquitin-like 3	1.552	9.80E-03
108143	Taf9	TAF9 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 32kDa	1.551	1.76E-03
111175	Pecr	peroxisomal trans-2-enoyl-CoA reductase	1.551	4.89E-06
229285	Spg20	spastic paraplegia 20 (Troyer syndrome)	1.551	1.18E-03
70129	Slc44A4	solute carrier family 44, member 4	1.551	2.47E-04
17864	Mybl1	v-myb myeloblastosis viral oncogene homolog (avian)-like 1	1.550	2.63E-03
12017	Bag1	BCL2-associated athanogene	1.549	3.33E-04
18088	Nkx2-2	NK2 homeobox 2	1.548	2.45E-02
16456	F11R	F11 receptor	1.546	2.24E-02
16649	Kpna4	karyopherin alpha 4 (importin alpha 3)	1.545	1.34E-02
16763	Lad1	ladinin 1	1.545	1.11E-03
106585	Ankrd12	ankyrin repeat domain 12	1.544	9.00E-05
66556	Drap1	DR1-associated protein 1 (negative cofactor 2 alpha)	1.543	2.12E-02
72114	Zbed3	zinc finger, BED-type containing 3	1.543	4.86E-03
66218	Ndufb9	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9, 22kDa	1.542	3.53E-04
20909	Stx4	syntaxin 4	1.541	1.95E-06
233805	Dcun1D3	DCN1, defective in cullin neddylation 1, domain containing 3 (S. cerevisiae)	1.540	3.53E-05
67015	Ccdc91	coiled-coil domain containing 91	1.540	3.29E-04
20744	Strbp	spermatid perinuclear RNA binding protein	1.536	3.51E-03
116838	Rims2	regulating synaptic membrane exocytosis 2	1.535	3.42E-04
16006	Igfbp1	insulin-like growth factor binding protein 1	1.535	5.64E-06
20649	Sntb1	syntrophin, beta 1 (dystrophin-associated protein A1, 59kDa, basic component 1)	1.535	3.28E-02
101706	Numa1	nuclear mitotic apparatus protein 1	1.534	3.37E-02
103199	Fig4	FIG4 homolog, SAC1 lipid phosphatase domain containing (S. cerevisiae)	1.533	3.55E-04
27419	Naglu	N-acetylglucosaminidase, alpha-	1.532	1.33E-02
330385	9530026P05Rik	RIKEN cDNA 9530026P05 gene	1.532	2.45E-03
108857	Ankhd1	ankyrin repeat and KH domain containing 1	1.530	9.32E-03
22276	Uros	uroporphyrinogen III synthase	1.529	6.47E-06
66148	Dnajc15	DnaJ (Hsp40) homolog, subfamily C, member 15	1.529	2.08E-05
67391	Fundc2	FUN14 domain containing 2	1.529	8.61E-04
16164	Aprt	adenine phosphoribosyltransferase	1.528	2.75E-05
15526	Hspa9	heat shock 70kDa protein 9 (mortalin)	1.527	1.01E-02
22158	Tulp3	tubby like protein 3	1.527	1.44E-04

239606	Slc2A13	solute carrier family 2 (facilitated glucose transporter), member 13	1.527	2.86E-02
21351	Taldo1	transaldolase 1	1.526	1.48E-05
13345	Twist2	twist homolog 2 (Drosophila)	1.523	2.56E-04
18553	Pcsk6	proprotein convertase subtilisin/kexin type 6	1.523	4.83E-02
68041	Mid1Ip1	MID1 interacting protein 1 (gastrulation specific G12 homolog (zebrafish))	1.523	5.91E-05
71766	Raver1	ribonucleoprotein, PTB-binding 1	1.523	4.03E-03
106143	Cggbp1	CGG triplet repeat binding protein 1	1.522	4.73E-06
16362	Irf1	interferon regulatory factor 1	1.522	2.03E-05
195531	Gm13152	predicted gene 13152	1.522	4.36E-04
74182	Gpcpd1	glycerophosphocholine phosphodiesterase GDE1 homolog (S. cerevisiae)	1.522	8.73E-04
27057	Ncoa4	nuclear receptor coactivator 4	1.521	8.93E-05
170676	Peg10	paternally expressed 10	1.520	1.76E-04
93747	Echs1	enoyl CoA hydratase, short chain, 1, mitochondrial	1.520	1.12E-06
20528	Slc2A4	solute carrier family 2 (facilitated glucose transporter), member 4	1.519	5.81E-05
231699	Oas1E	2'-5' oligoadenylate synthetase 1E	1.519	3.51E-03
71393	Kctd6	potassium channel tetramerisation domain containing 6	1.519	2.06E-02
69740	Dph5	DPH5 homolog (S. cerevisiae)	1.518	1.51E-03
16842	Lef1	lymphoid enhancer-binding factor 1	1.516	1.87E-04
52700	Igfbp1	insulin-like growth factor binding protein 1	1.516	3.22E-04
71972	Dnmbp	dynamin binding protein	1.516	1.11E-02
22715	Zfp57	zinc finger protein 57 homolog (mouse)	1.515	4.59E-03
75605	Kdm5B	lysine (K)-specific demethylase 5B	1.515	2.24E-02
14884	Gtf2H1	general transcription factor IIH, polypeptide 1, 62kDa	1.513	3.86E-04
14172	Fgf18	fibroblast growth factor 18	1.512	3.06E-02
170759	Atp13A1	ATPase type 13A1	1.512	1.60E-04
18208	Ntn1	netrin 1	1.512	3.08E-04
56306	Loc305103	cell surface glycoprotein gp42	1.512	4.98E-04
66664	Tmem41A	transmembrane protein 41A	1.512	3.31E-05
76380	Ccdc46	coiled-coil domain containing 46	1.512	4.17E-05
98733	Obsl1	obscurin-like 1	1.512	3.71E-05
20226	Sars	seryl-tRNA synthetase	1.510	1.62E-03
59053	C8Orf30A	chromosome 8 open reading frame 30A	1.510	6.74E-04
224860	Plcl2	phospholipase C-like 2	1.509	9.68E-03
52846	C2Orf29	chromosome 2 open reading frame 29	1.509	3.89E-04
11593	Aga	aspartylglucosaminidase	1.508	4.58E-05
18391	Sigmar1	sigma non-opioid intracellular receptor 1	1.507	3.27E-02
18611	Pea15	phosphoprotein enriched in astrocytes 15	1.507	5.96E-03
75914	Exoc6B	exocyst complex component 6B	1.507	2.28E-03
319765	Igf2Bp2	insulin-like growth factor 2 mRNA binding protein 2	1.506	7.14E-03
11606	Agt	angiotensinogen (serpin peptidase inhibitor, clade A, member 8)	1.504	3.77E-05
229937	Znhit6	zinc finger, HIT type 6	1.504	3.48E-04
69908	Rab3B	RAB3B, member RAS oncogene family	1.504	8.23E-04
270166	Clpx	ClpX caseinolytic peptidase X homolog (E. coli)	1.502	2.80E-04
16189	Il4	interleukin 4	1.501	4.33E-02
67008	C7Orf36	chromosome 7 open reading frame 36	1.501	3.94E-04
67371	Gtf3C6	general transcription factor IIIC, polypeptide 6, alpha 35kDa	1.501	8.24E-04
13132	Dab2	disabled homolog 2, mitogen-responsive phosphoprotein (Drosophila)	-14.733	2.34E-12
12442	Ccnb2	cyclin B2	-13.948	4.54E-06
14281	Fos	FBJ murine osteosarcoma viral oncogene homolog	-12.109	1.27E-08
12316	Aspm	asp (abnormal spindle) homolog, microcephaly associated (Drosophila)	-11.672	3.74E-05
66468	Ska1	spindle and kinetochore associated complex subunit 1	-10.921	7.41E-06
68743	Anln	anillin, actin binding protein	-10.615	2.03E-04
20135	Rrm2	ribonucleotide reductase M2	-9.761	1.95E-04
52033	Pbk	PDZ binding kinase	-9.435	5.57E-05
68026	Kiaa0101	KIAA0101	-9.032	6.49E-05
18817	Plk1	polo-like kinase 1 (Drosophila)	-8.858	1.52E-04
233406	Prc1	protein regulator of cytokinesis 1	-8.821	1.14E-04
16176	Il1B	interleukin 1, beta	-8.253	9.84E-04
108907	Nusap1	nucleolar and spindle associated protein 1	-8.123	1.34E-04
11723	Amy1A	amylase, alpha 1A (salivary)	-7.695	1.85E-05
18008	Nes	nestin	-7.537	3.59E-05
12443	Ccnd1	cyclin D1	-7.495	3.14E-05
68612	Ube2C	ubiquitin-conjugating enzyme E2C	-7.096	4.05E-05

18140	Uhrf1	ubiquitin-like with PHD and ring finger domains 1	-6.653	5.85E-04
21973	Top2A	topoisomerase (DNA) II alpha 170kDa	-6.630	3.66E-04
12475	Cd14	CD14 molecule	-6.242	5.00E-13
67052	Ndc80	NDC80 homolog, kinetochore complex component (S. cerevisiae)	-6.004	4.19E-05
13653	Egr1	early growth response 1	-5.869	3.17E-05
12534	Cdk1	cyclin-dependent kinase 1	-5.800	2.08E-04
211770	Trib1	tribbles homolog 1 (Drosophila)	-5.626	1.17E-06
13660	Ehd1	EH-domain containing 1	-5.556	5.67E-10
83815	Cenpq	centromere protein Q	-5.434	2.78E-04
15937	Ier3	immediate early response 3	-5.352	4.06E-05
73804	Kif2C	kinesin family member 2C	-5.352	1.29E-03
98386	Lbr	lamin B receptor	-5.341	1.32E-06
12490	Cd34	CD34 molecule	-5.329	3.94E-05
107995	Cdc20	cell division cycle 20 homolog (S. cerevisiae)	-5.180	5.84E-04
192196	Luc7L2	LUC7-like 2 (S. cerevisiae)	-5.159	8.88E-09
108000	Cenpf	centromere protein F, 350/400ka (mitosin)	-5.134	5.60E-04
192187	Glb1	galactosidase, beta 1	-5.028	1.12E-04
12532	Cdc25C	cell division cycle 25 homolog C (S. pombe)	-5.021	9.46E-04
23872	Ets2	v-ets erythroblastosis virus E26 oncogene homolog 2 (avian)	-4.952	1.07E-11
12428	Ccna2	cyclin A2	-4.945	3.73E-03
52679	Il4	interleukin 4	-4.908	3.17E-03
97165	Hmgb2	high-mobility group box 2	-4.908	1.16E-05
66977	Nuf2	NUF2, NDC80 kinetochore complex component, homolog (S. cerevisiae)	-4.884	1.52E-04
16019	Ighm	immunoglobulin heavy constant mu	-4.877	1.68E-03
12649	Chek1	CHK1 checkpoint homolog (S. pombe)	-4.843	7.66E-04
26886	Cenph	centromere protein H	-4.747	4.50E-04
18973	Pole	polymerase (DNA directed), epsilon	-4.744	5.72E-04
72415	Sgol1	shugoshin-like 1 (S. pombe)	-4.659	1.64E-03
331004	Slc9A9	solute carrier family 9 (sodium/hydrogen exchanger), member 9	-4.485	1.11E-03
211651	Fancd2	Fanconi anemia, complementation group D2	-4.454	6.50E-04
77022	2700099C18Rik	NDC80 homolog, kinetochore complex component pseudogene	-4.408	3.04E-05
20877	Aurkb	aurora kinase B	-4.389	1.75E-04
207818	Smaggp	small cell adhesion glycoprotein	-4.383	4.45E-05
20312	Cx3Cl1	chemokine (C-X3-C motif) ligand 1	-4.347	7.52E-05
17279	Melk	maternal embryonic leucine zipper kinase	-4.323	2.25E-03
16010	Igfbp4	insulin-like growth factor binding protein 4	-4.255	8.80E-05
224171	Kiaa1524	KIAA1524	-4.249	1.62E-03
17218	Mcm5	minichromosome maintenance complex component 5	-4.240	2.62E-04
12575	Cdkn1A	cyclin-dependent kinase inhibitor 1A (p21, Cip1)	-4.081	4.53E-06
17219	Mcm6	minichromosome maintenance complex component 6	-4.064	1.65E-03
14268	Fn1	fibronectin 1	-4.028	1.01E-05
60530	Figl1	fidgetin-like 1	-4.028	1.77E-03
66140	Ska2	spindle and kinetochore associated complex subunit 2	-4.014	3.56E-03
68298	Ncapd2	non-SMC condensin I complex, subunit D2	-4.003	2.15E-03
14793	Cdca3	cell division cycle associated 3	-3.945	1.01E-03
76044	Ncapg2	non-SMC condensin II complex, subunit G2	-3.912	6.72E-06
16956	Lpl	lipoprotein lipase	-3.861	5.28E-06
11461	Actb	actin, beta	-3.848	1.36E-05
13361	Dhfr	dihydrofolate reductase	-3.800	9.49E-04
227929	Cytip	cytohesin 1 interacting protein	-3.771	7.29E-03
20971	Sdc4	syndecan 4	-3.750	2.16E-10
98267	Stk17B	serine/threonine kinase 17b	-3.717	2.99E-05
23834	Il6	interleukin 6 (interferon, beta 2)	-3.699	1.79E-03
67849	Cdca5	cell division cycle associated 5	-3.696	2.78E-03
98496	Pid1	phosphotyrosine interaction domain containing 1	-3.686	2.71E-09
20296	Ccl13	chemokine (C-C motif) ligand 13	-3.668	7.52E-04
20220	Sap18	Sin3A-associated protein, 18kDa	-3.640	4.15E-03
20849	Stat4	signal transducer and activator of transcription 4	-3.635	1.78E-04
11555	Adrb2	adrenergic, beta-2-, receptor, surface	-3.630	3.87E-07
16906	Lmnb1	lamin B1	-3.618	7.13E-03
94180	Acsbg1	acyl-CoA synthetase bubblegum family member 1	-3.618	4.82E-04
114716	Spred2	sprouty-related, EVH1 domain containing 2	-3.613	8.59E-05
72333	Palld	palladin, cytoskeletal associated protein	-3.583	6.20E-06
218397	Rasa1	RAS p21 protein activator (GTPase activating protein) 1	-3.573	1.08E-07
21335	Tacc3	transforming, acidic coiled-coil containing protein 3	-3.538	4.16E-04
57816	Cyp2D6	cytochrome P450, family 2, subfamily D, polypeptide 6	-3.523	5.97E-03

80914	Uck2	uridine-cytidine kinase 2	-3.506	4.37E-08
116913	Tpppb	trophoblast specific protein beta	-3.470	3.86E-03
74107	Cep55	centrosomal protein 55kDa	-3.470	5.14E-04
68014	Zwilch	Zwilch, kinetochore associated, homolog (Drosophila)	-3.446	3.97E-04
73086	Rps6Ka5	ribosomal protein S6 kinase, 90kDa, polypeptide 5	-3.432	1.99E-08
106582	Nrm	nurim (nuclear envelope membrane protein)	-3.382	1.05E-05
12235	Bub1	budding uninhibited by benzimidazoles 1 homolog (yeast)	-3.378	7.33E-03
14284	Fosl2	FOS-like antigen 2	-3.378	2.92E-07
218977	Dlgap5	discs, large (Drosophila) homolog-associated protein 5	-3.368	4.08E-03
110033	Kif22	kinesin family member 22	-3.366	1.28E-03
76915	Mnd1	meiotin nuclear divisions 1 homolog (S. cerevisiae)	-3.350	8.79E-04
26934	Racgap1	Rac GTPase activating protein 1	-3.326	2.18E-03
16765	Stmn1	stathmin 1	-3.290	2.87E-03
14211	Smc2	structural maintenance of chromosomes 2	-3.288	3.20E-03
16881	Lig1	ligase I, DNA, ATP-dependent	-3.258	1.29E-03
226562	Bat2L2	HLA-B associated transcript 2-like 2	-3.211	6.68E-04
106795	Tcf19	transcription factor 19	-3.176	2.02E-03
56150	Mad2L1	MAD2 mitotic arrest deficient-like 1 (yeast)	-3.171	5.02E-03
17121	Mxd3	MAX dimerization protein 3	-3.149	8.87E-03
26406	Map3K3	mitogen-activated protein kinase kinase kinase 3	-3.132	5.12E-06
12916	Crem	cAMP responsive element modulator	-3.112	2.53E-03
71819	Kif23	kinesin family member 23	-3.095	5.01E-03
30939	Dmd	dystrophin	-3.078	8.00E-04
66934	Dsn1	DSN1, MIND kinetochore complex component, homolog (S. cerevisiae)	-3.069	6.49E-03
53791	Prm1	protamine 1	-3.046	8.18E-04
66197	Cks2	CDC28 protein kinase regulatory subunit 2	-3.040	2.68E-04
14121	Fbp1	fructose-1,6-bisphosphatase 1	-3.036	7.78E-05
107272	Psat1	phosphoserine aminotransferase 1	-3.027	2.12E-03
14269	Fnbp1	formin binding protein 1	-3.025	1.23E-04
16403	Itga6	integrin, alpha 6	-3.025	2.83E-07
18132	Notch4	Notch homolog 4 (Drosophila)	-3.025	6.77E-07
228421	Kif18A	kinesin family member 18A	-3.025	4.92E-03
217944	Rapgef5	Rap guanine nucleotide exchange factor (GEF) 5	-3.006	3.69E-07
15201	Hells	helicase, lymphoid-specific	-2.990	7.92E-03
319171	Hist1H2Ae	histone cluster 1, H2ae	-2.986	1.24E-08
234353	Psd3	pleckstrin and Sec7 domain containing 3	-2.973	9.18E-06
68549	Sgol2	shugoshin-like 2 (S. pombe)	-2.955	4.23E-03
70097	Sash1	SAM and SH3 domain containing 1	-2.955	1.33E-04
66949	Trim59	tripartite motif-containing 59	-2.953	1.56E-03
67263	Zswim6	zinc finger, SWIM-type containing 6	-2.946	3.90E-05
170772	Glcci1	glucocorticoid induced transcript 1	-2.934	1.77E-08
13032	Ctsc	cathepsin C	-2.930	2.35E-08
17342	Mitf	microphthalmia-associated transcription factor	-2.926	3.32E-04
12192	Zfp36L1	zinc finger protein 36, C3H type-like 1	-2.910	1.66E-02
71085	Arhgap19	Rho GTPase activating protein 19	-2.910	4.99E-10
54392	Ncapg	non-SMC condensin I complex, subunit G	-2.904	7.79E-05
20462	Tra2B	transformer 2 beta homolog (Drosophila)	-2.874	8.72E-05
26943	Serinc3	serine incorporator 3	-2.870	1.99E-07
194655	Klf11	Kruppel-like factor 11	-2.858	3.27E-10
110074	Dut	deoxyuridine triphosphatase	-2.848	2.74E-03
67121	Mastl	microtubule associated serine/threonine kinase-like	-2.826	3.22E-03
12768	Ccr1	chemokine (C-C motif) receptor 1	-2.821	7.94E-03
70024	Mcm10	minichromosome maintenance complex component 10	-2.799	1.64E-03
384077	Pramef13	PRAME family member 13	-2.793	3.37E-03
14235	Foxm1	forkhead box M1	-2.786	7.23E-03
17965	Nbl1	neuroblastoma, suppression of tumorigenicity 1	-2.786	3.82E-02
230257	Rod1	ROD1 regulator of differentiation 1 (S. pombe)	-2.782	3.85E-06
12505	Cd44	CD44 molecule (Indian blood group)	-2.774	1.09E-07
11501	Adam8	ADAM metallopeptidase domain 8	-2.770	2.07E-06
66923	Pbrm1	polybromo 1	-2.755	1.49E-05
12449	Ccnf	cyclin F	-2.742	1.13E-02
110052	Dek	DEK oncogene	-2.721	4.56E-05
19891	Rpa2	replication protein A2, 32kDa	-2.721	1.55E-04
19674	Rcvrn	recoverin	-2.717	2.78E-06
67196	Ube2T	ubiquitin-conjugating enzyme E2T (putative)	-2.704	3.39E-03
18792	Plau	plasminogen activator, urokinase	-2.694	3.42E-02
72472	Slc16A10	solute carrier family 16, member 10 (aromatic amino acid transporter)	-2.693	3.46E-09
68585	Rtn4	reticulon 4	-2.674	9.76E-06
12520	Cd81	CD81 molecule	-2.665	5.81E-07

107568	Wwp1	WW domain containing E3 ubiquitin protein ligase 1	-2.639	1.91E-03
13136	Cd55	CD55 molecule, decay accelerating factor for complement (Cromer blood group)	-2.639	5.14E-08
17258	Mef2A	myocyte enhancer factor 2A	-2.628	5.24E-10
81898	Sf3B1	splicing factor 3b, subunit 1, 155kDa	-2.626	4.13E-05
27214	Dbf4	DBF4 homolog ( <i>S. cerevisiae</i> )	-2.615	4.33E-03
217333	Trim47	tripartite motif-containing 47	-2.608	8.05E-05
51869	Rif1	RAP1 interacting factor homolog (yeast)	-2.595	3.25E-05
69928	Apitd1	apoptosis-inducing, TAF9-like domain 1	-2.588	7.32E-04
77744	C13Orf34	chromosome 13 open reading frame 34	-2.578	2.02E-03
29877	Hdgfrp3	hepatoma-derived growth factor, related protein 3	-2.572	5.47E-08
18578	Pde4B	phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, <i>Drosophila</i> )	-2.560	3.55E-02
16691	Krt8	keratin 8	-2.556	1.66E-06
83921	Tmem2	transmembrane protein 2	-2.554	2.87E-05
68268	Zdhhc21	zinc finger, DHHC-type containing 21	-2.553	1.32E-04
16443	Itsn1	intersectin 1 (SH3 domain protein)	-2.549	7.79E-08
20308	Ccl9	chemokine (C-C motif) ligand 9	-2.547	8.97E-07
70373	C14Orf118	chromosome 14 open reading frame 118	-2.540	5.34E-08
16153	Il10	interleukin 10	-2.537	7.65E-03
26885	Casp8Ap2	caspase 8 associated protein 2	-2.530	6.33E-04
17869	Myc	v-myc myelocytomatosis viral oncogene homolog (avian)	-2.525	1.02E-02
232441	Rerg	RAS-like, estrogen-regulated, growth inhibitor	-2.518	5.84E-03
620419	9830167H18Rik	RIKEN cDNA 9830167H18 gene	-2.516	2.14E-05
214459	Fnbp1L	formin binding protein 1-like	-2.507	3.60E-04
16431	Itm2A	integral membrane protein 2A	-2.498	1.18E-04
71175	Nipbl	Nipped-B homolog ( <i>Drosophila</i> )	-2.497	1.77E-06
54650	Sfmbt1	Scm-like with four mbt domains 1	-2.490	4.86E-05
14775	Gpx1	glutathione peroxidase 1	-2.488	5.49E-06
216350	Tspan8	tetraspanin 8	-2.485	3.22E-05
16170	Il16	interleukin 16 (lymphocyte chemoattractant factor)	-2.471	5.15E-03
70099	Smc4	structural maintenance of chromosomes 4	-2.466	3.72E-04
12609	Cebpd	CCAAT/enhancer binding protein (C/EBP), delta	-2.464	7.27E-04
71876	Mlf1Ip	MLF1 interacting protein	-2.457	1.44E-05
11426	Macf1	microtubule-actin crosslinking factor 1	-2.454	1.59E-08
217119	Xylt2	xylosyltransferase II	-2.454	2.68E-03
244895	Sgk269	NKF3 kinase family member	-2.449	3.71E-04
67037	Pmf1	polyamine-modulated factor 1	-2.442	1.93E-03
21781	Tfdp1	transcription factor Dp-1	-2.437	9.25E-03
232341	Wnk1	WNK lysine deficient protein kinase 1	-2.433	4.43E-08
56403	Ifng	interferon, gamma	-2.432	2.97E-05
74478	Snx29	sorting nexin 29	-2.430	9.30E-07
14056	Ezh2	enhancer of zeste homolog 2 ( <i>Drosophila</i> )	-2.425	2.60E-03
94219	Cnnm2	cyclin M2	-2.420	2.74E-03
58186	Rad18	RAD18 homolog ( <i>S. cerevisiae</i> )	-2.418	3.11E-03
76199	Med13L	mediator complex subunit 13-like	-2.418	3.50E-06
110796	Tshz1	teashirt zinc finger homeobox 1	-2.417	1.56E-05
216705	Clint1	clathrin interactor 1	-2.412	1.25E-04
57349	Ppbp	pro-platelet basic protein (chemokine (C-X-C motif) ligand 7)	-2.412	2.19E-06
50934	Slc7A8	solute carrier family 7 (amino acid transporter, L-type), member 8	-2.410	6.11E-05
64898	Lpin2	lipin 2	-2.410	2.32E-04
12453	Ccni	cyclin I	-2.405	2.80E-05
17268	Meis1	Meis homeobox 1	-2.405	2.03E-02
27221	Chaf1A	chromatin assembly factor 1, subunit A (p150)	-2.397	7.76E-03
14678	Gnai2	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 2	-2.387	1.16E-03
18607	Pdpk1	3-phosphoinositide dependent protein kinase-1	-2.383	3.27E-04
101739	Psip1	PC4 and SFRS1 interacting protein 1	-2.380	1.72E-03
14229	Fkbp5	FK506 binding protein 5	-2.375	2.64E-02
98415	Nucks1	nuclear casein kinase and cyclin-dependent kinase substrate 1	-2.373	1.28E-02
20731	Spink4	serine peptidase inhibitor, Kazal type 4	-2.360	1.68E-05
77773	Igf1R	insulin-like growth factor 1 receptor	-2.347	1.02E-02
20259	Scin	scinderin	-2.346	3.50E-03
17216	Mcm2	minichromosome maintenance complex component 2	-2.338	2.66E-02
12226	Btg1	B-cell translocation gene 1, anti-proliferative	-2.329	2.88E-05
14745	Lpar1	lysophosphatidic acid receptor 1	-2.328	2.40E-05
56419	Diaph3	diaphanous homolog 3 ( <i>Drosophila</i> )	-2.325	4.41E-02
219072	Haus4	HAUS augmin-like complex, subunit 4	-2.323	5.40E-06

67434	Ankrd33B	ankyrin repeat domain 33B	-2.320	3.11E-03
105988	Espl1	extra spindle pole bodies homolog 1 ( <i>S. cerevisiae</i> )	-2.317	3.72E-04
108912	Cdca2	cell division cycle associated 2	-2.317	2.80E-04
17158	Man2A1	mannosidase, alpha, class 2A, member 1	-2.317	9.78E-06
13205	Ddx3X	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, X-linked	-2.315	1.07E-04
52276	Cdca8	cell division cycle associated 8	-2.315	8.03E-03
207214	Larp4	La ribonucleoprotein domain family, member 4	-2.313	1.51E-02
94213	Ddx50	DEAD (Asp-Glu-Ala-Asp) box polypeptide 50	-2.304	3.31E-04
192176	Glb1	galactosidase, beta 1	-2.299	5.04E-03
20230	Satb1	SATB homeobox 1	-2.294	1.53E-02
15354	Hmgb3	high-mobility group box 3	-2.289	1.12E-02
18613	Pecam1	platelet/endothelial cell adhesion molecule	-2.289	3.73E-02
170744	Tlr8	toll-like receptor 8	-2.283	4.70E-04
233489	Picalm	phosphatidylinositol binding clathrin assembly protein	-2.280	4.15E-03
230484	Usp1	ubiquitin specific peptidase 1	-2.278	4.28E-02
237911	Brip1	BRCA1 interacting protein C-terminal helicase 1	-2.277	2.45E-03
12447	Ccne1	cyclin E1	-2.274	1.27E-02
12580	Cdkn2C	cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4)	-2.267	2.10E-03
12156	Bmp2	bone morphogenetic protein 2	-2.264	1.87E-02
20317	Serpinf1	serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1	-2.258	7.26E-03
29870	Thra	thyroid hormone receptor, alpha (erythroblastic leukemia viral (v-erb-a) oncogene homolog, avian)	-2.252	4.42E-04
93691	Klf7	Kruppel-like factor 7 (ubiquitous)	-2.252	1.64E-06
19291	Purb	purine-rich element binding protein B	-2.247	1.74E-04
381280	Hjrp	Holliday junction recognition protein	-2.247	3.92E-04
19366	Rad54L	RAD54-like ( <i>S. cerevisiae</i> )	-2.239	4.57E-03
14629	Gclc	glutamate-cysteine ligase, catalytic subunit	-2.236	2.49E-03
224671	Btbd9	BTB (POZ) domain containing 9	-2.235	1.58E-04
69534	Avpi1	arginine vasopressin-induced 1	-2.230	2.60E-04
93742	Pard3	par-3 partitioning defective 3 homolog ( <i>C. elegans</i> )	-2.230	1.33E-08
14674	Gna13	guanine nucleotide binding protein (G protein), alpha 13	-2.222	4.48E-07
22323	Vasp	vasodilator-stimulated phosphoprotein	-2.219	2.42E-03
545389	Rab3D	RAB3D, member RAS oncogene family	-2.218	5.71E-04
14173	Fgf2	fibroblast growth factor 2 (basic)	-2.216	6.25E-05
67216	Mboat2	membrane bound O-acyltransferase domain containing 2	-2.207	3.75E-02
381038	Parl	presenilin associated, rhomboid-like	-2.202	1.89E-06
21817	Tgm2	transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase)	-2.201	1.32E-03
81877	Tnxb	tenascin XB	-2.201	3.71E-03
12721	Coro1A	coronin, actin binding protein, 1A	-2.199	3.14E-05
59069	Tpm3	tropomyosin 3	-2.199	1.78E-05
20683	Sp1	Sp1 transcription factor	-2.190	2.04E-05
68682	Slc44A2	solute carrier family 44, member 2	-2.190	1.87E-04
19303	Pxn	paxillin	-2.189	7.73E-04
13138	Dag1	dystroglycan 1 (dystrophin-associated glycoprotein 1)	-2.187	1.21E-02
382207	Phf16	PHD finger protein 16	-2.186	4.35E-02
68817	Ddi2	DNA-damage inducible 1 homolog 2 ( <i>S. cerevisiae</i> )	-2.184	2.22E-05
69188	Mll5	myeloid/lymphoid or mixed-lineage leukemia 5 (trithorax homolog, <i>Drosophila</i> )	-2.181	6.49E-05
18584	Pde8A	phosphodiesterase 8A	-2.178	2.24E-05
108148	Galnt2	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 2 (GalNAc-T2)	-2.172	8.68E-05
101592	Eftud1	elongation factor Tu GTP binding domain containing 1	-2.170	8.54E-06
18472	Pafah1B1	platelet-activating factor acetylhydrolase 1b, regulatory subunit 1 (45kDa)	-2.167	5.63E-06
208628	Kntc1	kinetochore associated 1	-2.160	2.25E-03
56194	Prpf40A	PRP40 pre-mRNA processing factor 40 homolog A ( <i>S. cerevisiae</i> )	-2.160	1.95E-03
50793	Orc3L	origin recognition complex, subunit 3-like (yeast)	-2.157	1.76E-07
102920	Cenpi	centromere protein I	-2.155	1.54E-06
67298	Gprasp1	G protein-coupled receptor associated sorting protein 1	-2.142	6.90E-05
70974	Pgm2L1	phosphoglucomutase 2-like 1	-2.141	6.24E-07
23881	Mapk1	mitogen-activated protein kinase 1	-2.139	2.50E-03
22154	Tubb	tubulin, beta	-2.133	6.80E-03
19324	Rab1A	RAB1A, member RAS oncogene family	-2.132	1.20E-06
57257	Vcsa1	variable coding sequence A1	-2.126	1.45E-03
56452	Orc6L	origin recognition complex, subunit 6 like (yeast)	-2.123	1.69E-03
73945	Otud4	OTU domain containing 4	-2.123	4.80E-02
12409	Cbr2	carbonyl reductase 2	-2.121	4.55E-05
54124	Cks1B	CDC28 protein kinase regulatory subunit 1B	-2.121	7.17E-03

14545	Gdap1	ganglioside-induced differentiation-associated protein 1	-2.118	3.45E-05
54394	Crlf3	cytokine receptor-like factor 3	-2.118	6.04E-04
97808	C79445	tubulin, beta 2a, pseudogene 2	-2.118	2.54E-02
72750	Fam117B	family with sequence similarity 117, member B	-2.111	1.95E-04
100340	Smpdl3B	sphingomyelin phosphodiesterase, acid-like 3B	-2.110	1.51E-06
19735	Rgs2	regulator of G-protein signaling 2, 24kDa	-2.110	7.35E-09
24128	Xrn2	5'-3' exoribonuclease 2	-2.110	3.52E-03
26417	Mapk3	mitogen-activated protein kinase 3	-2.110	2.02E-02
15476	Hs3St1	heparan sulfate (glucosamine) 3-O-sulfotransferase 1	-2.107	1.09E-04
15289	Hmgb1L1	high-mobility group box 1-like 1	-2.105	1.12E-04
51789	Cebpg	CCAAT/enhancer binding protein (C/EBP), gamma	-2.105	5.22E-08
17122	Mxd4	MAX dimerization protein 4	-2.104	7.27E-03
237246	Bc022960	cDNA sequence BC022960	-2.102	1.17E-04
238130	Dock4	dedicator of cytokinesis 4	-2.102	2.07E-04
74326	HnrnpR	heterogeneous nuclear ribonucleoprotein R	-2.099	5.28E-06
20405	Sh3Gl1	SH3-domain GRB2-like 1	-2.095	3.13E-03
106342	Atp13A3	ATPase type 13A3	-2.094	1.36E-03
21923	Tnc	tenascin C	-2.083	4.40E-03
241520	Fam171B	family with sequence similarity 171, member B	-2.079	1.97E-04
12830	Col4A5	collagen, type IV, alpha 5	-2.071	3.41E-02
54004	Nudt19	nudix (nucleoside diphosphate linked moiety X)-type motif 19	-2.071	9.16E-07
67141	Fbxo5	F-box protein 5	-2.066	2.23E-03
22589	Atrx	alpha thalassemia/mental retardation syndrome X-linked (RAD54 homolog, <i>S. cerevisiae</i> )	-2.063	2.49E-05
70767	Prpf3	PRP3 pre-mRNA processing factor 3 homolog ( <i>S. cerevisiae</i> )	-2.062	4.04E-04
13512	Dsg3	desmoglein 3 (pemphigus vulgaris antigen)	-2.061	1.29E-03
17215	Mcm3	minichromosome maintenance complex component 3	-2.061	1.06E-02
80876	Ifitm2	interferon induced transmembrane protein 2 (1-8D)	-2.059	4.36E-02
227541	Camk1D	calcium/calmodulin-dependent protein kinase ID	-2.058	2.04E-05
12702	Socs3	suppressor of cytokine signaling 3	-2.055	1.85E-04
18044	Nfya	nuclear transcription factor Y, alpha	-2.055	1.26E-02
12448	Ccne2	cyclin E2	-2.053	1.12E-02
16796	Lasp1	LIM and SH3 protein 1	-2.048	7.74E-06
15463	Agfg1	ArfGAP with FG repeats 1	-2.046	8.91E-04
69780	Smad2	small ArfGAP2	-2.043	1.40E-06
24061	Smc1A	structural maintenance of chromosomes 1A	-2.038	1.94E-03
56386	B4Galt6	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 6	-2.034	7.40E-06
108770	Rc3H1	ring finger and CCCH-type zinc finger domains 1	-2.029	1.29E-03
15251	Hif1A	hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)	-2.028	1.63E-04
26932	Ppp2R5E	protein phosphatase 2, regulatory subunit B', epsilon isoform	-2.027	8.89E-08
18674	Slc25A3	solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 3	-2.018	1.44E-02
277010	Marveld1	MARVEL domain containing 1	-2.013	7.19E-06
18669	Abcb1B	ATP-binding cassette, sub-family B (MDR/TAP), member 1B	-2.011	1.56E-08
11975	Atp6V0A1	ATPase, H+ transporting, lysosomal V0 subunit a1	-2.008	5.52E-06
19225	Ptgs2	prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)	-2.007	7.04E-03
321022	Cdv3	CDV3 homolog (mouse)	-2.006	1.03E-03
15403	Hoxa6	homeobox A6	-2.003	3.75E-04
15257	Hipk1	homeodomain interacting protein kinase 1	-2.001	1.20E-03
22289	Kdm6A	lysine (K)-specific demethylase 6A	-1.997	5.29E-07
217558	G2E3	G2/M-phase specific E3 ubiquitin ligase	-1.996	3.57E-02
67448	Plxdc2	plexin domain containing 2	-1.996	2.98E-03
72313	Fryl	FRY-like	-1.996	4.03E-06
74838	Naa15	N(alpha)-acetyltransferase 15, NatA auxiliary subunit	-1.996	1.39E-02
16978	Lrrfip1	leucine rich repeat (in FLII) interacting protein 1	-1.990	2.17E-05
15387	HnrnpK	heterogeneous nuclear ribonucleoprotein K	-1.989	1.18E-04
103554	Psme4	proteasome (prosome, macropain) activator subunit 4	-1.988	5.80E-03
12144	Blm	Bloom syndrome, RecQ helicase-like	-1.988	3.02E-02
17155	Man1A1	mannosidase, alpha, class 1A, member 1	-1.988	6.89E-05
226757	Wdr26	WD repeat domain 26	-1.982	1.06E-03
76499	Clasp2	cytoplasmic linker associated protein 2	-1.982	2.02E-04
110094	Phka2	phosphorylase kinase, alpha 2 (liver)	-1.981	2.12E-06
76707	Clasp1	cytoplasmic linker associated protein 1	-1.977	7.22E-06
101943	Sf3B3	splicing factor 3b, subunit 3, 130kDa	-1.975	2.71E-05
68365	Rab14	RAB14, member RAS oncogene family	-1.974	5.07E-04



54196	Sry	sex determining region Y	-1.966	4.78E-05
57263	Retnlb	resistin like beta	-1.960	6.80E-04
75786	Ckap5	cytoskeleton associated protein 5	-1.959	1.82E-02
67300	Cltc	clathrin, heavy chain (Hc)	-1.957	1.77E-02
19230	Twf1	twinfilin, actin-binding protein, homolog 1 (Drosophila)	-1.952	1.07E-02
15200	Hbegf	heparin-binding EGF-like growth factor	-1.951	2.45E-03
20687	Sp3	Sp3 transcription factor	-1.951	3.75E-04
69131	Cdk12	cyclin-dependent kinase 12	-1.949	1.77E-06
57258	Xpo4	exportin 4	-1.948	5.31E-04
12400	Cbfb	core-binding factor, beta subunit	-1.943	1.62E-03
16171	Il17A	interleukin 17A	-1.943	2.53E-04
105787	Prkaa1	protein kinase, AMP-activated, alpha 1 catalytic subunit	-1.941	2.13E-03
67554	Slc25A30	solute carrier family 25, member 30	-1.940	5.02E-03
16468	Jarid2	jumonji, AT rich interactive domain 2	-1.939	1.36E-03
22083	Ctr9	Ctr9, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae)	-1.939	3.13E-06
68240	Rpa3	replication protein A3, 14kDa	-1.939	2.18E-04
74996	Usp47	ubiquitin specific peptidase 47	-1.937	1.89E-04
140780	Bmp2K (Includes Eg:55589)	BMP2 inducible kinase	-1.932	1.62E-05
50927	Nasp	nuclear autoantigenic sperm protein (histone-binding)	-1.932	3.34E-03
70646	Naa30	N(alpha)-acetyltransferase 30, NatC catalytic subunit	-1.932	1.29E-03
170719	Oxr1	oxidation resistance 1	-1.931	5.77E-05
51788	Cebpg	CCAAT/enhancer binding protein (C/EBP), gamma	-1.931	2.50E-05
26356	Ing1	inhibitor of growth family, member 1	-1.928	4.05E-05
21413	Tcf4	transcription factor 4	-1.924	2.98E-02
232314	Ppp4R2	protein phosphatase 4, regulatory subunit 2	-1.924	1.91E-05
71514	Sfpq	splicing factor proline/glutamine-rich	-1.924	5.31E-03
16779	Lamb2	laminin, beta 2 (laminin S)	-1.923	2.20E-04
63913	Fam129A	family with sequence similarity 129, member A	-1.921	1.79E-03
26397	Map2K3	mitogen-activated protein kinase kinase 3	-1.920	2.02E-02
16180	Il1Rap	interleukin 1 receptor accessory protein	-1.917	1.88E-02
18458	Pabpc1	poly(A) binding protein, cytoplasmic 1	-1.912	8.04E-03
53605	Kcna1	potassium voltage-gated channel, shaker-related subfamily, member 1 (episodic ataxia with myokymia)	-1.912	8.15E-04
71148	Mier1	mesoderm induction early response 1 homolog (Xenopus laevis)	-1.909	8.14E-03
230996	C1Orf159	chromosome 1 open reading frame 159	-1.908	2.28E-05
11938	Atp2A2	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2	-1.907	1.96E-03
13730	Emp1	epithelial membrane protein 1	-1.907	2.33E-04
56177	Gabra3	gamma-aminobutyric acid (GABA) A receptor, alpha 3	-1.904	2.51E-02
20409	Ostf1	osteoclast stimulating factor 1	-1.900	3.96E-05
277250	Kdm3B	lysine (K)-specific demethylase 3B	-1.900	4.29E-06
20492	Slbp	stem-loop binding protein	-1.895	4.69E-04
20411	Sorbs1	sorbin and SH3 domain containing 1	-1.889	6.49E-05
21423	Tcf3	transcription factor 3 (E2A immunoglobulin enhancer binding factors E12/E47)	-1.889	6.44E-05
67345	Herc4	hect domain and RLD 4	-1.889	5.62E-03
15209	Hesx1	HESX homeobox 1	-1.888	2.74E-04
17357	Marcksl1	MARCKS-like 1	-1.888	3.96E-06
207165	Bptf	bromodomain PHD finger transcription factor	-1.888	4.41E-06
12394	Runx1	runt-related transcription factor 1	-1.887	5.65E-04
329977	Fhad1	forkhead-associated (FHA) phosphopeptide binding domain 1	-1.887	2.68E-04
18139	Znf638	zinc finger protein 638	-1.883	3.19E-03
19878	Rock2	Rho-associated, coiled-coil containing protein kinase 2	-1.879	3.12E-04
12227	Btg2	BTG family, member 2	-1.878	2.44E-02
20174	Ruvbl2	RuvB-like 2 (E. coli)	-1.878	1.35E-03
227753	Gsn	gelsolin	-1.878	6.57E-05
216965	Taok1	TAO kinase 1	-1.876	9.66E-04
11480	Acvr2A	activin A receptor, type IIA	-1.874	5.03E-03
56420	Igf2	insulin-like growth factor 2 (somatomedin A)	-1.874	8.90E-05
347722	Agap1	ArfGAP with GTPase domain, ankyrin repeat and PH domain 1	-1.873	6.78E-04
77048	Ccdc41	coiled-coil domain containing 41	-1.871	1.96E-03
380752	Tssc1	tumor suppressing subtransferable candidate 1	-1.870	2.59E-07
13618	Ednrb	endothelin receptor type B	-1.869	5.08E-03
14456	Gas6	growth arrest-specific 6	-1.867	1.64E-03
218973	Wdhd1	WD repeat and HMG-box DNA binding protein 1	-1.867	3.93E-02
93692	Glrx	glutaredoxin (thioltransferase)	-1.866	6.02E-04
21969	Top1	topoisomerase (DNA) I	-1.865	3.49E-06

78255	Ralgps2	Ral GEF with PH domain and SH3 binding motif 2	-1.862	2.94E-03
12053	Bcl6	B-cell CLL/lymphoma 6	-1.861	2.80E-03
50878	Hbz	hemoglobin, zeta	-1.861	2.79E-04
12367	Casp3	caspase 3, apoptosis-related cysteine peptidase	-1.860	4.33E-03
17688	Msh6	mutS homolog 6 (E. coli)	-1.860	2.84E-06
74022	Glyr1	glyoxylate reductase 1 homolog (Arabidopsis)	-1.860	3.19E-02
19271	Ptprj	protein tyrosine phosphatase, receptor type, J	-1.858	2.59E-03
19280	Ptprs	protein tyrosine phosphatase, receptor type, S	-1.858	1.64E-05
66442	Spc25	SPC25, NDC80 kinetochore complex component, homolog (S. cerevisiae)	-1.857	4.09E-02
16319	Hist1H1B	histone cluster 1, H1b	-1.856	1.88E-04
17345	Mki67	antigen identified by monoclonal antibody Ki-67	-1.856	2.61E-02
22019	Tpp2	tripeptidyl peptidase II	-1.853	1.51E-06
80912	Pum1	pumilio homolog 1 (Drosophila)	-1.853	7.84E-04
12772	Ccr2	chemokine (C-C motif) receptor 2	-1.852	1.70E-03
14426	Galnt4	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 4 (GalNAc-T4)	-1.851	1.32E-05
66884	Appbp2	amyloid beta precursor protein (cytoplasmic tail) binding protein 2	-1.851	3.58E-04
12530	Cdc25A	cell division cycle 25 homolog A (S. pombe)	-1.849	5.75E-03
54216	Sdc1	syndecan 1	-1.849	9.51E-03
81702	Ankrd17	ankyrin repeat domain 17	-1.848	6.94E-06
18974	Pole2	polymerase (DNA directed), epsilon 2 (p59 subunit)	-1.844	1.00E-02
67080	C2Orf88	chromosome 2 open reading frame 88	-1.844	2.50E-03
217039	Ggnbp2	gametogenetin binding protein 2	-1.843	1.81E-04
18704	Pik3C2A	phosphoinositide-3-kinase, class 2, alpha polypeptide	-1.842	2.42E-04
380959	Alg10	asparagine-linked glycosylation 10, alpha-1,2-glucosyltransferase homolog (S. pombe)	-1.842	2.73E-02
56309	Sstr1	somatostatin receptor 1	-1.842	8.91E-03
18516	Pbx3	pre-B-cell leukemia homeobox 3	-1.840	3.65E-06
19651	Rbl2	retinoblastoma-like 2 (p130)	-1.840	2.21E-04
219140	Spata13	spermatogenesis associated 13	-1.839	1.18E-03
26921	Map4K4	mitogen-activated protein kinase kinase kinase 4	-1.839	1.65E-04
13555	E2F1	E2F transcription factor 1	-1.837	1.94E-02
57442	Kcne3	potassium voltage-gated channel, Isk-related family, member 3	-1.831	1.05E-03
68505	C11Orf2	chromosome 11 open reading frame 2	-1.830	2.93E-04
73836	Slc35B2	solute carrier family 35, member B2	-1.830	2.23E-05
28193	Reep3	receptor accessory protein 3	-1.829	4.43E-04
73181	Nfatc4	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 4	-1.826	3.16E-06
76137	Ccdc90A	coiled-coil domain containing 90A	-1.825	2.93E-03
11865	Arntl	aryl hydrocarbon receptor nuclear translocator-like	-1.823	6.27E-07
16600	Klf4	Kruppel-like factor 4 (gut)	-1.819	6.19E-03
14897	Trip12	thyroid hormone receptor interactor 12	-1.818	4.08E-05
72520	2610305J24Rik	hypothetical gene LOC72520	-1.818	1.05E-02
21366	Slc6A6	solute carrier family 6 (neurotransmitter transporter, taurine), member 6	-1.815	1.22E-03
18024	Nfe2L2	nuclear factor (erythroid-derived 2)-like 2	-1.814	1.78E-02
20340	Glg1	golgi glycoprotein 1	-1.814	3.04E-04
140742	Sesn1	sestrin 1	-1.813	7.39E-04
72162	Dhx36	DEAH (Asp-Glu-Ala-His) box polypeptide 36	-1.813	2.01E-05
26419	Mapk8	mitogen-activated protein kinase 8	-1.810	4.31E-05
73910	Arhgap18	Rho GTPase activating protein 18	-1.810	2.22E-02
13822	Epb41L2	erythrocyte membrane protein band 4.1-like 2	-1.809	1.98E-04
93674	Cml3	camello-like 3	-1.808	6.60E-05
71865	Fbxo30	F-box protein 30	-1.806	3.25E-04
20848	Stat3	signal transducer and activator of transcription 3 (acute-phase response factor)	-1.805	2.46E-03
104806	Fancm	Fanconi anemia, complementation group M	-1.799	4.39E-05
14958	H1F0	H1 histone family, member 0	-1.799	3.87E-06
233726	Ipo7	importin 7	-1.799	2.25E-03
70925	Cdkn2Aip	CDKN2A interacting protein	-1.799	7.20E-05
252870	Usp7	ubiquitin specific peptidase 7 (herpes virus-associated)	-1.796	2.49E-03
268996	Ss18	synovial sarcoma translocation, chromosome 18	-1.796	4.08E-03
75292	Prkd3	protein kinase D3	-1.796	6.16E-06
18720	Pip5K1A	phosphatidylinositol-4-phosphate 5-kinase, type I, alpha	-1.795	3.01E-04
50518	Cox4I1	cytochrome c oxidase subunit IV isoform 1	-1.794	7.16E-04
11855	Arhgap5	Rho GTPase activating protein 5	-1.793	4.56E-03
414801	Itrip	inositol 1,4,5-triphosphate receptor interacting protein	-1.784	1.61E-02

66471	Anp32E	acidic (leucine-rich) nuclear phosphoprotein 32 family, member E	-1.781	4.54E-02
118445	Klf16	Kruppel-like factor 16	-1.779	2.17E-05
98878	Ehd4	EH-domain containing 4	-1.779	3.99E-07
231801	Agfg2	ArfGAP with FG repeats 2	-1.778	1.48E-03
93706	Pcdhgc3	protocadherin gamma subfamily C, 3	-1.778	4.94E-02
108802	Calr4	calreticulin 4	-1.776	3.44E-02
67418	Ppil4	peptidylprolyl isomerase (cyclophilin)-like 4	-1.776	5.79E-04
208922	Cpeb3	cytoplasmic polyadenylation element binding protein 3	-1.775	9.89E-04
212391	Myl2	myosin, light chain 2, regulatory, cardiac, slow	-1.775	5.51E-03
22222	Ubr1	ubiquitin protein ligase E3 component n-recognin 1	-1.775	9.56E-03
66700	Vps24	vacuolar protein sorting 24 homolog (S. cerevisiae)	-1.770	1.77E-05
68219	Nudt21	nudix (nucleoside diphosphate linked moiety X)-type motif 21	-1.770	2.85E-05
226075	Glis3	GLIS family zinc finger 3	-1.769	2.77E-03
57867	Hnf1A	HNF1 homeobox A	-1.768	1.83E-03
19361	Rad51	RAD51 homolog (RecA homolog, E. coli) (S. cerevisiae)	-1.765	2.25E-05
331563	C130006E23	hypothetical protein C130006E23	-1.765	3.96E-02
59033	Slc4A8	solute carrier family 4, sodium bicarbonate cotransporter, member 8	-1.765	8.95E-07
72007	Fndc3B	fibronectin type III domain containing 3B	-1.764	9.37E-05
51886	Fubp1	far upstream element (FUSE) binding protein 1	-1.762	2.48E-06
269424	Phf17	PHD finger protein 17	-1.761	9.72E-05
70686	Dusp16	dual specificity phosphatase 16	-1.759	1.39E-04
77087	Ankrd11	ankyrin repeat domain 11	-1.756	5.93E-05
20482	Skil	SKI-like oncogene	-1.754	2.07E-03
12445	Ccnd3	cyclin D3	-1.752	1.24E-05
231123	Haus3	HAUS augmin-like complex, subunit 3	-1.752	1.23E-04
74760	Rab3Ii1	RAB3A interacting protein (rabin3)-like 1	-1.751	1.21E-02
11856	Arhgap6	Rho GTPase activating protein 6	-1.750	6.44E-03
231464	Adra2C	adrenergic, alpha-2C-, receptor	-1.746	3.78E-04
235574	Atp2C1	ATPase, Ca <sup>++</sup> transporting, type 2C, member 1	-1.746	3.89E-03
94242	Tinagl1	tubulointerstitial nephritis antigen-like 1	-1.746	3.56E-03
17125	Smad1	SMAD family member 1	-1.745	6.62E-04
20638	Snrpb	small nuclear ribonucleoprotein polypeptides B and B1	-1.740	2.21E-02
21855	Timm17B	translocase of inner mitochondrial membrane 17 homolog B (yeast)	-1.740	1.90E-02
20460	Stil	SCL/TAL1 interrupting locus	-1.739	3.03E-02
24116	Whsc2	Wolf-Hirschhorn syndrome candidate 2	-1.739	1.88E-03
50758	Fbxl17	F-box and leucine-rich repeat protein 17	-1.737	1.07E-05
12503	Cd247	CD247 molecule	-1.736	1.52E-05
26951	Zw10	ZW10, kinetochore associated, homolog (Drosophila)	-1.735	1.07E-03
14693	Gnb2	guanine nucleotide binding protein (G protein), beta polypeptide 2	-1.734	1.96E-03
19357	Rad21	RAD21 homolog (S. pombe)	-1.734	4.40E-03
223601	Fam49B	family with sequence similarity 49, member B	-1.733	3.59E-03
218613	Mier3	mesoderm induction early response 1, family member 3	-1.731	2.05E-04
56758	Mbnl1	muscleblind-like (Drosophila)	-1.731	1.07E-03
12389	Cav1	caveolin 1, caveolae protein, 22kDa	-1.730	4.20E-04
104570	Smek2	SMEK homolog 2, suppressor of mek1 (Dictyostelium)	-1.728	6.33E-05
105689	Mycbp2	MYC binding protein 2	-1.728	1.12E-04
71474	Saps2	SAPS domain family, member 2	-1.727	1.72E-05
67268	Myl9	myosin, light chain 9, regulatory	-1.725	2.13E-05
54132	Sos1	son of sevenless homolog 1 (Drosophila)	-1.724	1.12E-02
59125	Nek7	NIMA (never in mitosis gene a)-related kinase 7	-1.724	5.60E-03
20238	Atxn1	ataxin 1	-1.723	1.87E-04
107823	Whsc1	Wolf-Hirschhorn syndrome candidate 1	-1.722	2.28E-02
57913	Dmd	dystrophin	-1.722	1.25E-02
17118	Marcks	myristoylated alanine-rich protein kinase C substrate	-1.720	1.13E-03
18193	Nsd1	nuclear receptor binding SET domain protein 1	-1.720	7.94E-05
229227	Kiaa1109	KIAA1109	-1.720	2.40E-03
233532	Rsf1	remodeling and spacing factor 1	-1.718	5.72E-05
15379	Onecut1	one cut homeobox 1	-1.717	2.84E-02
17998	Znf618	zinc finger protein 618	-1.717	5.33E-03
224829	Trerf1	transcriptional regulating factor 1	-1.717	8.32E-07
12306	Anxa2	annexin A2	-1.716	6.22E-04
19245	Ptp4A3	protein tyrosine phosphatase type IVA, member 3	-1.715	4.79E-06
19877	Rock1	Rho-associated, coiled-coil containing protein kinase 1	-1.715	1.48E-03
54135	Lsr	lipolysis stimulated lipoprotein receptor	-1.714	4.15E-02
74252	Armc1	armadillo repeat containing 1	-1.714	6.23E-03
11977	Atp7A	ATPase, Cu <sup>++</sup> transporting, alpha polypeptide	-1.709	9.11E-04

246103	Atxn7	ataxin 7	-1.708	8.97E-04
14751	Gpi	glucose-6-phosphate isomerase	-1.701	2.18E-03
99382	Abtb2	ankyrin repeat and BTB (POZ) domain containing 2	-1.701	9.62E-05
94245	Dtnbp1	dystrobrevin binding protein 1	-1.699	7.27E-03
18521	Pcbp2	poly(rC) binding protein 2	-1.698	2.56E-07
19777	C19Orf2	chromosome 19 open reading frame 2	-1.698	4.88E-06
93687	Csnk1A1	casein kinase 1, alpha 1	-1.698	4.66E-04
20586	Smarca4	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4	-1.697	2.16E-03
407823	Baz2B	bromodomain adjacent to zinc finger domain, 2B	-1.697	4.40E-03
230376	Haus6	HAUS augmin-like complex, subunit 6	-1.695	1.21E-02
230895	Vps13D	vacuolar protein sorting 13 homolog D ( <i>S. cerevisiae</i> )	-1.695	1.22E-05
66859	Slc16A9	solute carrier family 16, member 9 (monocarboxylic acid transporter 9)	-1.695	8.39E-07
19387	Chadl	chondroadherin-like	-1.693	3.05E-02
56317	Gh1	growth hormone 1	-1.693	6.29E-06
56811	Tdo2	tryptophan 2,3-dioxygenase	-1.693	1.41E-03
217578	Map4	microtubule-associated protein 4	-1.692	7.52E-04
22379	Fmnl3	formin-like 3	-1.691	5.21E-04
71963	Cdca4	cell division cycle associated 4	-1.691	2.60E-04
226412	R3Hdm1	R3H domain containing 1	-1.690	5.39E-04
77604	Rbm12B	RNA binding motif protein 12B	-1.689	6.16E-06
83946	Phip	pleckstrin homology domain interacting protein	-1.689	4.88E-05
22143	Tuba1B	tubulin, alpha 1b	-1.688	2.51E-02
18591	Pdgfb	platelet-derived growth factor beta polypeptide (simian sarcoma viral (v-sis) oncogene homolog)	-1.685	2.70E-02
242291	Impad1	inositol monophosphatase domain containing 1	-1.685	1.80E-02
121022	Mrps6	mitochondrial ribosomal protein S6	-1.684	4.46E-04
15568	Elavl1	ELAV (embryonic lethal, abnormal vision, <i>Drosophila</i> )-like 1 (Hu antigen R)	-1.682	1.29E-03
215690	Nav1	neuron navigator 1	-1.682	3.02E-03
56195	G6Pd	glucose-6-phosphate dehydrogenase	-1.682	3.91E-03
67150	Rnf141	ring finger protein 141	-1.682	1.96E-03
14194	Fh	fumarate hydratase	-1.681	1.02E-04
70025	Acot7	acyl-CoA thioesterase 7	-1.681	3.12E-03
14236	Foxn2	forkhead box N2	-1.679	1.12E-02
14169	Fgf14	fibroblast growth factor 14	-1.678	4.57E-04
218865	Chdh	choline dehydrogenase	-1.677	2.85E-03
16211	Canx	calnexin	-1.676	1.04E-02
229675	Rsbn1	round spermatid basic protein 1	-1.676	1.08E-03
231051	MLI3	myeloid/lymphoid or mixed-lineage leukemia 3	-1.676	1.68E-05
13982	Esr1	estrogen receptor 1	-1.675	6.48E-04
19645	Rb1	retinoblastoma 1	-1.675	1.22E-04
234023	Arglu1	arginine and glutamate rich 1	-1.675	1.40E-04
23874	Acaa1	acetyl-CoA acyltransferase 1	-1.674	7.80E-05
57815	Cyp2D6	cytochrome P450, family 2, subfamily D, polypeptide 6	-1.674	7.92E-05
108083	Pip4K2B	phosphatidylinositol-5-phosphate 4-kinase, type II, beta	-1.672	1.67E-03
19241	Tmsb4X	thymosin beta 4, X-linked	-1.672	2.94E-04
319934	Sbf2	SET binding factor 2	-1.671	5.99E-03
320394	Cenpt	centromere protein T	-1.671	2.19E-04
54446	Nfat5	nuclear factor of activated T-cells 5, tonicity-responsive	-1.670	1.93E-03
74549	Kiaa0892	KIAA0892	-1.669	1.96E-04
232339	Ankrd26	ankyrin repeat domain 26	-1.668	7.21E-04
100226	Stx12	syntaxin 12	-1.667	2.07E-04
21749	Terf1	telomeric repeat binding factor (NIMA-interacting) 1	-1.667	1.66E-04
225131	Wac	WW domain containing adaptor with coiled-coil	-1.667	1.38E-03
244891	Scaper	S-phase cyclin A-associated protein in the ER	-1.667	4.73E-03
19266	Ptprd	protein tyrosine phosphatase, receptor type, D	-1.666	4.12E-03
212898	Dse	dermatan sulfate epimerase	-1.666	1.95E-04
18099	Nlk	nemo-like kinase	-1.663	1.17E-04
216760	Mfap3	microfibrillar-associated protein 3	-1.663	6.82E-03
223455	March6	membrane-associated ring finger (C3HC4) 6	-1.663	4.54E-04
319651	Usp37	ubiquitin specific peptidase 37	-1.663	1.28E-04
74503	Bbx	bobby sox homolog ( <i>Drosophila</i> )	-1.663	9.91E-06
71914	Antxr2	anthrax toxin receptor 2	-1.662	1.61E-02
277939	C2Cd3	C2 calcium-dependent domain containing 3	-1.661	3.96E-02
13858	Eps15	epidermal growth factor receptor pathway substrate 15	-1.660	4.59E-04
11518	Add1	adducin 1 (alpha)	-1.659	1.00E-03
18035	Nfkbia	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	-1.659	2.44E-05
216238	Eea1	early endosome antigen 1	-1.657	1.21E-03

56278	Grik1	glutamate receptor, ionotropic, kainate 1	-1.657	5.90E-03
67771	Arpc5	actin related protein 2/3 complex, subunit 5, 16kDa	-1.657	2.70E-02
18519	Kat2B	K(lysine) acetyltransferase 2B	-1.656	1.89E-04
12591	Cdx2	caudal type homeobox 2	-1.655	5.04E-04
72289	Malat1	metastasis associated lung adenocarcinoma transcript 1 (non-protein coding)	-1.654	2.87E-04
227333	Dgkd	diacylglycerol kinase, delta 130kDa	-1.653	4.47E-04
76846	Rps9	ribosomal protein S9	-1.652	6.51E-03
225358	Fam13B	family with sequence similarity 13, member B	-1.649	1.70E-05
69207	Sfrs11	splicing factor, arginine/serine-rich 11	-1.648	3.64E-03
207728	Pde2A	phosphodiesterase 2A, cGMP-stimulated	-1.647	3.03E-03
235534	Acpl2	acid phosphatase-like 2	-1.647	1.35E-02
22785	Slc30A4	solute carrier family 30 (zinc transporter), member 4	-1.646	6.84E-05
271457	Rab5A	RAB5A, member RAS oncogene family	-1.646	1.41E-02
329506	Ctdspl2	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase like 2	-1.645	2.99E-04
104099	Itga9	integrin, alpha 9	-1.644	3.92E-02
20874	Slk	STE20-like kinase (yeast)	-1.641	1.06E-04
229055	Zbtb10	zinc finger and BTB domain containing 10	-1.641	2.84E-03
12366	Casp2	caspase 2, apoptosis-related cysteine peptidase	-1.640	1.71E-03
16009	Igfbp3	insulin-like growth factor binding protein 3	-1.640	1.12E-04
26909	Exo1	exonuclease 1	-1.640	4.59E-02
21947	Cd40Lg	CD40 ligand	-1.639	1.65E-03
108155	Ogt	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N- acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase)	-1.638	1.37E-02
11487	Adam10	ADAM metallopeptidase domain 10	-1.638	1.20E-02
20842	Stag1	stromal antigen 1	-1.638	1.59E-02
230753	Thrap3	thyroid hormone receptor associated protein 3	-1.638	1.36E-04
12771	Ccr3	chemokine (C-C motif) receptor 3	-1.637	6.26E-04
75316	Taf1D	TATA box binding protein (TBP)-associated factor, RNA polymerase I, D, 41kDa	-1.637	1.13E-05
268878	Atp13A5	ATPase type 13A5	-1.636	2.99E-04
319340	Fam126B	family with sequence similarity 126, member B	-1.636	2.21E-04
68275	Rpa1	replication protein A1, 70kDa	-1.636	3.30E-02
14042	Ext1	exostosin 1	-1.632	1.31E-03
22661	Znf148	zinc finger protein 148	-1.632	7.38E-05
76205	Stard3NI	STARD3 N-terminal like	-1.631	3.83E-05
15081	H3F3C	H3 histone, family 3C	-1.630	4.91E-06
269587	Epb41	erythrocyte membrane protein band 4.1 (elliptocytosis 1, RH-linked)	-1.630	2.62E-04
71116	Stx18	syntaxin 18	-1.629	1.04E-03
104732	C14orf80	chromosome 14 open reading frame 80	-1.627	6.92E-05
107723	Slc12A6	solute carrier family 12 (potassium/chloride transporters), member 6	-1.626	3.59E-05
114713	Tat	tyrosine aminotransferase	-1.626	1.10E-02
72475	Ssbp3	single stranded DNA binding protein 3	-1.625	1.07E-05
67299	Dock7	dedicator of cytokinesis 7	-1.623	1.85E-02
16819	Lcn2	lipocalin 2	-1.622	2.04E-03
18046	Nfyc	nuclear transcription factor Y, gamma	-1.622	4.90E-03
17865	Mybl2	v-myb myeloblastosis viral oncogene homolog (avian)-like 2	-1.621	5.14E-04
14296	Frat1	frequently rearranged in advanced T-cell lymphomas	-1.620	1.25E-02
18045	Nfyb	nuclear transcription factor Y, beta	-1.620	1.59E-03
225523	Cep120	centrosomal protein 120kDa	-1.620	5.21E-04
245945	Rbm47	RNA binding motif protein 47	-1.620	1.71E-02
209707	Lcorl	ligand dependent nuclear receptor corepressor-like	-1.619	8.00E-05
27359	Sytl4	synaptotagmin-like 4	-1.619	4.21E-02
72465	Znf131	zinc finger protein 131	-1.619	3.80E-03
19219	Ptger4	prostaglandin E receptor 4 (subtype EP4)	-1.618	1.60E-03
20044	Rps14	ribosomal protein S14	-1.618	2.66E-03
22643	Zfp101	zinc finger protein 101	-1.618	1.00E-03
12455	Ccnt1	cyclin T1	-1.617	1.72E-02
12412	Cbx1	chromobox homolog 1 (HP1 beta homolog Drosophila )	-1.616	7.01E-05
18392	Orc1L	origin recognition complex, subunit 1-like (yeast)	-1.616	6.11E-03
103806	Maml1	mastermind-like 1 (Drosophila)	-1.614	1.43E-04
15270	H2Afx	H2A histone family, member X	-1.614	1.49E-02
15452	Hprt1	hypoxanthine phosphoribosyltransferase 1	-1.613	3.63E-03
19084	Prkar1A	protein kinase, cAMP-dependent, regulatory, type I, alpha (tissue specific extinguisher 1)	-1.613	1.59E-05
20602	Ncor2	nuclear receptor co-repressor 2	-1.612	4.82E-04

21813	Tgfb2	transforming growth factor, beta receptor II (70/80kDa)	-1.612	1.53E-05
16568	Kif3A	kinesin family member 3A	-1.611	1.16E-02
214469	Fam168B	family with sequence similarity 168, member B	-1.611	1.22E-05
22359	Vldlr	very low density lipoprotein receptor	-1.609	1.34E-03
54670	Atp8B1	ATPase, aminophospholipid transporter, class I, type 8B, member 1	-1.608	4.47E-02
70999	Naa40	N(alpha)-acetyltransferase 40, NatD catalytic subunit, homolog ( <i>S. cerevisiae</i> )	-1.608	1.16E-03
21766	Tex261	testis expressed 261	-1.607	2.47E-03
50887	Hmgn5	high-mobility group nucleosome binding domain 5	-1.607	1.77E-02
78655	Eif3J	eukaryotic translation initiation factor 3, subunit J	-1.605	3.26E-02
13709	Elf1	E74-like factor 1 (ets domain transcription factor)	-1.604	8.70E-03
18826	Lcp1	lymphocyte cytosolic protein 1 (L-plastin)	-1.604	2.64E-06
228790	Asxl1	additional sex combs like 1 ( <i>Drosophila</i> )	-1.604	6.57E-05
108989	Tpr	translocated promoter region (to activated MET oncogene)	-1.603	1.90E-03
56636	Fgf21	fibroblast growth factor 21	-1.602	1.27E-02
218210	Nup153	nucleoporin 153kDa	-1.601	7.96E-03
226519	Lamc1	laminin, gamma 1 (formerly LAMB2)	-1.597	1.90E-03
67213	Cmtm6	CKLF-like MARVEL transmembrane domain containing 6	-1.597	1.68E-06
70564	C10Orf58	chromosome 10 open reading frame 58	-1.597	1.99E-05
17002	Ltf	lactotransferrin	-1.595	3.20E-04
245688	Rbbp7	retinoblastoma binding protein 7	-1.594	3.72E-02
319638	Nt5Dc1	5'-nucleotidase domain containing 1	-1.593	2.14E-03
70223	Nars	asparaginyl-tRNA synthetase	-1.593	5.49E-03
104725	C14Orf147	chromosome 14 open reading frame 147	-1.592	1.78E-02
20527	Slc2A3	solute carrier family 2 (facilitated glucose transporter), member 3	-1.591	7.73E-05
211914	Fbxl12	F-box and leucine-rich repeat protein 12	-1.591	1.50E-04
328425	Dleu2	deleted in lymphocytic leukemia 2 (non-protein coding)	-1.591	6.41E-03
83964	Jam3	junctional adhesion molecule 3	-1.590	2.40E-02
80719	Igsf6	immunoglobulin superfamily, member 6	-1.589	9.87E-05
67803	Limd2	LIM domain containing 2	-1.588	4.41E-02
29871	Scmh1	sex comb on midleg homolog 1 ( <i>Drosophila</i> )	-1.587	2.29E-02
19347	Dennd5A	DENN/MADD domain containing 5A	-1.586	1.86E-04
21778	Tex9	testis expressed 9	-1.586	4.41E-02
233833	Tnrc6A	trinucleotide repeat containing 6A	-1.586	2.68E-02
66631	Hiat1	hippocampus abundant transcript-like 1	-1.584	1.75E-02
231834	Snx8	sorting nexin 8	-1.583	2.58E-04
68833	Pdcl3	phosducin-like 3	-1.583	2.96E-04
56017	Slc2A8	solute carrier family 2 (facilitated glucose transporter), member 8	-1.582	3.17E-03
14660	Gls	glutaminase	-1.580	4.58E-02
14797	Aes	amino-terminal enhancer of split	-1.580	2.94E-03
238799	Tnpo1	transportin 1	-1.580	1.42E-03
72061	C9Orf3	chromosome 9 open reading frame 3	-1.580	1.73E-06
18789	Papola	poly(A) polymerase alpha	-1.579	4.00E-05
56291	Gria3	glutamate receptor, ionotropic, AMPA 3	-1.579	1.89E-02
109151	Chd9	chromodomain helicase DNA binding protein 9	-1.578	7.95E-04
331623	Bend3	BEN domain containing 3	-1.578	4.40E-05
12237	Bub3	budding uninhibited by benzimidazoles 3 homolog (yeast)	-1.577	1.42E-05
30841	Dmd	dystrophin	-1.577	5.43E-04
230721	Pabpc4	poly(A) binding protein, cytoplasmic 4 (inducible form)	-1.576	1.75E-03
380712	Tlcd2	TLC domain containing 2	-1.576	5.04E-04
234736	Rfwd3	ring finger and WD repeat domain 3	-1.575	9.89E-05
26936	Mprp	myosin phosphatase Rho interacting protein	-1.575	6.76E-03
71458	Bcor	BCL6 co-repressor	-1.575	4.01E-03
69953	2810025M15Rik	RIKEN cDNA 2810025M15 gene	-1.574	4.14E-06
72615	Anks3	ankyrin repeat and sterile alpha motif domain containing 3	-1.574	2.14E-05
11513	Adcy7	adenylate cyclase 7	-1.572	2.58E-04
69241	Polr2D	polymerase (RNA) II (DNA directed) polypeptide D	-1.572	3.29E-03
11800	Api5	apoptosis inhibitor 5	-1.571	3.85E-04
17245	Mdm1	Mdm1 nuclear protein homolog (mouse)	-1.571	8.20E-05
226144	Erlin1	ER lipid raft associated 1	-1.571	2.50E-03
229504	Isg20L2	interferon stimulated exonuclease gene 20kDa-like 2	-1.571	1.76E-03
15441	Hp1Bp3	heterochromatin protein 1, binding protein 3	-1.570	3.81E-05
228602	C20Orf194	chromosome 20 open reading frame 194	-1.570	9.04E-06
239839	Ccdc14	coiled-coil domain containing 14	-1.569	2.88E-02
58223	Mmp19	matrix metalloproteinase 19	-1.569	2.49E-04
17388	Mmp15	matrix metalloproteinase 15 (membrane-inserted)	-1.568	4.25E-04
68152	Fam133B	family with sequence similarity 133, member B	-1.568	4.95E-05
77057	Ston1	stonin 1	-1.568	1.02E-02

625662	Ankrd31	ankyrin repeat domain 31	-1.567	4.29E-03
214133	Tet2	tet oncogene family member 2	-1.566	5.62E-03
17120	Mad1L1	MAD1 mitotic arrest deficient-like 1 (yeast)	-1.565	3.71E-02
229542	Gatad2B	GATA zinc finger domain containing 2B	-1.564	1.60E-04
66643	Lix1	Lix1 homolog (chicken)	-1.564	2.49E-03
71713	Cdc40	cell division cycle 40 homolog ( <i>S. cerevisiae</i> )	-1.564	1.64E-02
74513	Neto2	neuropilin (NRP) and tolloid (TLL)-like 2	-1.564	4.28E-02
14682	Gnaq	guanine nucleotide binding protein (G protein), $\alpha$ polypeptide	-1.563	4.81E-03
77134	Hnrnpa0	heterogeneous nuclear ribonucleoprotein A0	-1.562	7.17E-03
210035	Tmem194A	transmembrane protein 194A	-1.560	2.24E-02
29869	Ulk2	unc-51-like kinase 2 ( <i>C. elegans</i> )	-1.559	8.08E-03
66422	Dctpp1	dCTP pyrophosphatase 1	-1.559	1.53E-03
66073	Txndc12	thioredoxin domain containing 12 (endoplasmic reticulum)	-1.558	1.08E-04
216551	Hspc159	galectin-related protein	-1.557	4.20E-02
22284	Usp9X	ubiquitin specific peptidase 9, X-linked	-1.557	6.51E-04
269423	C4orf29	chromosome 4 open reading frame 29	-1.554	2.78E-04
66629	Golph3	golgi phosphoprotein 3 (coat-protein)	-1.554	1.29E-02
13002	Dnajc5	DnaJ (Hsp40) homolog, subfamily C, member 5	-1.553	1.99E-02
16855	Lgals4	lectin, galactoside-binding, soluble, 4	-1.553	8.70E-03
74604	4833417J20Rik	RIKEN cDNA 4833417J20 gene	-1.553	3.43E-02
241447	Lass6	LAG1 homolog, ceramide synthase 6	-1.552	1.79E-03
72145	Wdfy3	WD repeat and FYVE domain containing 3	-1.552	1.91E-02
11787	Apbb2	amyloid beta (A4) precursor protein-binding, family B, member 2	-1.551	9.22E-04
70661	Sik3	SIK family kinase 3	-1.551	3.25E-03
72729	Cdc42Se2	CDC42 small effector 2	-1.551	3.86E-04
14594	Ggta1	glycoprotein, alpha-galactosyltransferase 1 pseudogene	-1.550	2.45E-05
67733	Itgb3Bp	integrin beta 3 binding protein (beta3-endonexin)	-1.549	1.11E-03
78521	C5orf24	chromosome 5 open reading frame 24	-1.549	4.85E-04
67667	Alkbh8	alkB, alkylation repair homolog 8 ( <i>E. coli</i> )	-1.548	5.22E-04
233315	Mttr10	myotubularin related protein 10	-1.545	1.70E-02
74603	Cd200R3	CD200 receptor 3	-1.544	2.59E-02
22343	Lin7C	lin-7 homolog C ( <i>C. elegans</i> )	-1.543	3.86E-02
225888	Suv420H1	suppressor of variegation 4-20 homolog 1 ( <i>Drosophila</i> )	-1.543	8.87E-05
70508	Bbx	bobby sox homolog ( <i>Drosophila</i> )	-1.543	1.54E-05
103677	Smg6	Smg-6 homolog, nonsense mediated mRNA decay factor ( <i>C. elegans</i> )	-1.542	5.90E-05
56463	Nup210	nucleoporin 210kDa	-1.541	1.28E-03
109910	Zfp91	zinc finger protein 91 homolog (mouse)	-1.540	4.05E-03
67420	Far1	fatty acyl CoA reductase 1	-1.540	6.13E-03
319885	Zcchc7	zinc finger, CCHC domain containing 7	-1.539	5.70E-04
57314	Svs4	seminal vesicle secretory protein 4	-1.537	1.92E-04
106869	Tnfaip8	tumor necrosis factor, alpha-induced protein 8	-1.536	1.80E-02
12934	Dpysl2	dihydropyrimidinase-like 2	-1.536	1.94E-02
208643	Eif4G1	eukaryotic translation initiation factor 4 gamma, 1	-1.536	4.80E-02
18647	Cdk14	cyclin-dependent kinase 14	-1.535	2.39E-05
20666	Sox11	SRY (sex determining region Y)-box 11	-1.534	3.76E-05
58800	Trpm7	transient receptor potential cation channel, subfamily M, member 7	-1.534	2.86E-03
11789	Apc	adenomatous polyposis coli	-1.533	5.26E-04
71340	RioK1	RIO kinase 1 (yeast)	-1.533	2.28E-02
107358	Tm9Sf3	transmembrane 9 superfamily member 3	-1.532	1.50E-02
117198	Ivns1Abp	influenza virus NS1A binding protein	-1.532	1.11E-03
18712	Pim1	pim-1 oncogene	-1.532	4.32E-02
71735	Lrwd1	leucine-rich repeats and WD repeat domain containing 1	-1.532	3.90E-03
74132	Rnf6	ring finger protein (C3H2C3 type) 6	-1.532	6.83E-03
13006	Mt-Coi	cytochrome c oxidase subunit I	-1.530	4.10E-04
16193	Il6	interleukin 6 (interferon, beta 2)	-1.530	8.70E-03
17305	Mfng	MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase	-1.530	9.56E-05
103135	Pan2	PAN2 poly(A) specific ribonuclease subunit homolog ( <i>S. cerevisiae</i> )	-1.529	8.38E-05
12042	Bcl10	B-cell CLL/lymphoma 10	-1.529	1.03E-04
20833	Ssrp1	structure specific recognition protein 1	-1.529	2.21E-02
217995	Heatr1	HEAT repeat containing 1	-1.528	6.33E-03
19211	Pten	phosphatase and tensin homolog	-1.527	3.21E-03
242687	Wasf2	WAS protein family, member 2	-1.525	1.81E-05
59026	Huwe1	HECT, UBA and WWE domain containing 1	-1.525	4.79E-04
327987	Med13	mediator complex subunit 13	-1.524	3.14E-03
69354	Slc38A4	solute carrier family 38, member 4	-1.524	2.08E-03

94223	Dgcr8	DiGeorge syndrome critical region gene 8	-1.524	2.38E-04
213819	Casd1	CAS1 domain containing 1	-1.522	2.03E-04
225055	Fbxo11	F-box protein 11	-1.522	2.95E-02
236790	Ddx26B	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 26B	-1.522	1.73E-02
73198	Nin	ninein (GSK3B interacting protein)	-1.522	1.73E-02
329540	C20Orf112	chromosome 20 open reading frame 112	-1.521	5.46E-05
59015	Nup160	nucleoporin 160kDa	-1.521	2.88E-02
71833	Dcaf7	DDB1 and CUL4 associated factor 7	-1.521	2.43E-02
12163	Bmp8A	bone morphogenetic protein 8a	-1.520	3.30E-02
12419	Cbx5	chromobox homolog 5 (HP1 alpha homolog, Drosophila)	-1.519	9.33E-04
14105	Sfrs13A	splicing factor, arginine/serine-rich 13A	-1.519	4.85E-02
27399	Ip6K1	inositol hexakisphosphate kinase 1	-1.519	4.14E-02
54624	Paf1	Paf1, RNA polymerase II associated factor, homolog (S. cerevisiae)	-1.519	4.26E-04
20300	Ccl25	chemokine (C-C motif) ligand 25	-1.518	2.70E-03
67988	Tmx3	thioredoxin-related transmembrane protein 3	-1.518	1.49E-02
11308	Abi1	abl-interactor 1	-1.517	9.01E-03
69270	Gins1	GIN5 complex subunit 1 (Psf1 homolog)	-1.517	1.34E-03
76408	Abcc3	ATP-binding cassette, sub-family C (CFTR/MRP), member 3	-1.517	3.82E-02
74155	Errfi1	ERBB receptor feedback inhibitor 1	-1.516	9.61E-04
320615	Dopey1	dopey family member 1	-1.515	5.07E-05
54710	Hs3St3B1	heparan sulfate (glucosamine) 3-O-sulfotransferase 3B1	-1.515	3.54E-02
16971	Lrp1	low density lipoprotein receptor-related protein 1	-1.514	2.27E-02
11772	Ap2A2	adaptor-related protein complex 2, alpha 2 subunit	-1.513	2.33E-02
208146	Yeats2	YEATS domain containing 2	-1.513	2.66E-04
66898	Baiap2L1	BAI1-associated protein 2-like 1	-1.513	4.25E-04
72503	Kiaa0100	KIAA0100	-1.512	4.69E-03
231571	Ascl1	achaete-scute complex homolog 1 (Drosophila)	-1.510	3.82E-03
52036	Saps3	SAPS domain family, member 3	-1.510	6.75E-03
19698	Relb	v-rel reticuloendotheliosis viral oncogene homolog B	-1.509	1.41E-02
320487	Heatr5A	HEAT repeat containing 5A	-1.508	1.22E-03
66932	Rexo1	REX1, RNA exonuclease 1 homolog (S. cerevisiae)	-1.508	8.59E-03
56637	Gsk3B	glycogen synthase kinase 3 beta	-1.507	1.26E-03
12057	Opn1Sw	opsin 1 (cone pigments), short-wave-sensitive	-1.506	3.21E-02
19290	Pura	purine-rich element binding protein A	-1.506	1.61E-03
20440	St6Gal1	ST6 beta-galactosamide alpha-2,6-sialyltransferase 1	-1.506	4.92E-02
107746	Rapgef1	Rap guanine nucleotide exchange factor (GEF) 1	-1.505	3.48E-02
19654	Rbm6	RNA binding motif protein 6	-1.505	1.20E-03
78816	Gmip	GEM interacting protein	-1.504	2.41E-02
19687	Rfc1	replication factor C (activator 1) 1, 145kDa	-1.503	1.34E-04
16777	Lamb1	laminin, beta 1	-1.502	4.35E-03
22333	Vdac1	voltage-dependent anion channel 1	-1.502	3.57E-02
66928	Loc100289059	hypothetical protein LOC100289059	-1.502	1.75E-02