

Table S1. Differentially expressed genes in Study 1 PC samples revealed by ANOVA

No.	Gene Symbol	Gene Title	p-value	RefSeq ID
1	Asb4	ankyrin repeat and SOCS box-containing 4	1.21E-17	NM_023048
2	Slc25a4	solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator	8.78E-14	NM_007450
3	Itih5	inter-alpha (globulin) inhibitor H5	3.29E-13	NM_172471
4	Osbpl1a	oxysterol binding protein-like 1A	6.24E-13	NM_207530
5	Igh-6	immunoglobulin heavy chain 6 (heavy chain of IgM)	3.68E-12	---
6	Dpt	dermatopontin	6.95E-12	NM_019759
7	Nts	neurotensin	2.10E-11	NM_024435
8	Slc25a4	solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator	2.56E-11	NM_007450
9	Igk-V1	immunoglobulin kappa chain variable 1 (V1)	2.61E-11	---
10	Ogn	osteoglycin	7.40E-11	NM_008760
11	Rdx	radixin	1.49E-10	NM_001104616 /// NM_001104617 /// NM_009041
12	Smoc1	SPARC related modular calcium binding 1	1.61E-10	NM_001146217 /// NM_022316
13	Osbpl1a	oxysterol binding protein-like 1A	1.78E-10	NM_207530
14	Extl2	exostosin (multiple)-like 2	2.18E-10	NM_001163514 /// NM_001163515 /// NM_021388
15	Igh-6	immunoglobulin heavy chain 6 (heavy chain of IgM)	2.53E-10	---
16	Smyd2	SET and MYND domain containing 2	3.30E-10	NM_026796
17	Klra17	killer cell lectin-like receptor, subfamily A, member 17	4.80E-10	NM_133203
18	Slc25a4	solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator	6.01E-10	NM_007450
19	Nav2	neuron navigator 2	6.21E-10	NM_001111016 /// NM_175272
20	Ear1 /// Ear12 /// Ear2 /// Ear3	eosinophil-associated, ribonuclease A family, member 1 /// eosinophil-associated	6.82E-10	NM_001012766 /// NM_007894 /// NM_007895 /// NM_017388
21	Enpp2	ectonucleotide pyrophosphatase/phosphodiesterase 2	7.18E-10	NM_001136077 /// NM_015744
22	Tshz1	teashirt zinc finger family member 1	8.06E-10	NM_001081300
23	Lpl	lipoprotein lipase	8.80E-10	NM_008509
24	Sod1	superoxide dismutase 1, soluble	9.46E-10	NM_011434
25	1190002H23Rik	RIKEN cDNA 1190002H23 gene	1.09E-09	NM_025427
26	Hoxc4	homeo box C4	1.09E-09	NM_013553
27	Neurog3	neurogenin 3	1.20E-09	NM_009719
28	Abca8b	ATP-binding cassette, sub-family A (ABC1), member 8b	1.26E-09	NM_013851
29	2610018G03Rik	RIKEN cDNA 2610018G03 gene	1.31E-09	NM_133729
30	Rdx	radixin	1.46E-09	NM_001104616 /// NM_001104617 /// NM_009041
31	Col6a1	collagen, type VI, alpha 1	1.46E-09	NM_009933
32	Zadh2	zinc binding alcohol dehydrogenase, domain containing 2	1.65E-09	NM_146090
33	Cd163	CD163 antigen	1.86E-09	NM_053094
34	5730403B10Rik	RIKEN cDNA 5730403B10 gene	2.31E-09	NM_025670
35	Mgst1	microsomal glutathione S-transferase 1	2.58E-09	NM_019946
36	Car15	carbonic anhydrase 15	4.60E-09	NM_030558
37	Sdpr	serum deprivation response	4.71E-09	NM_138741
38	Sliit3	Sliit homolog 3 (Drosophila)	4.98E-09	NM_011412
39	Uhrf1bp1l	UHRF1 (ICBP90) binding protein 1-like	5.65E-09	NM_029166
40	Serpini1	serine (or cysteine) peptidase inhibitor, clade I, member 1	6.35E-09	NM_009250
41	Ly6d	lymphocyte antigen 6 complex, locus D	7.19E-09	NM_010742
42	Fabp4	fatty acid binding protein 4, adipocyte	8.57E-09	NM_024406
43	2310061J03Rik	RIKEN cDNA 2310061J03 gene	8.95E-09	NM_133677 /// NR_027965

44	Acsl1	acyl-CoA synthetase long-chain family member 1	1.13E-08	NM_007981
45	C3	complement component 3	1.28E-08	NM_009778
46	Gsn	gelsolin	1.28E-08	NM_146120
47	Pfn2	profilin 2	1.47E-08	NM_019410
48	Pdgfra	platelet derived growth factor receptor, alpha polypeptide	1.50E-08	NM_001083316 /// NM_011058
49	Ctsc	cathepsin C	1.51E-08	NM_009982
50	Gsn	gelsolin	1.82E-08	NM_146120
51	Steap4	STEAP family member 4	1.96E-08	NM_054098
52	G0s2	G0/G1 switch gene 2	2.33E-08	NM_008059
53	Rnase4	ribonuclease, RNase A family 4	2.48E-08	NM_021472 /// NM_201239
54	Tgfb2	transforming growth factor, beta 2	2.75E-08	NM_009367
55	F13a1	coagulation factor XIII, A1 subunit	2.90E-08	NM_028784
56	Slc1a1	solute carrier family 1 (neuronal/epithelial high affinity glutamate transporter	2.91E-08	NM_009199
57	Ms4a6d	membrane-spanning 4-domains, subfamily A, member 6D	3.11E-08	NM_026835
58	Srgn	serglycin	3.24E-08	NM_011157
59	Klk1	kallikrein 1	3.25E-08	NM_010639
60	Itga9	integrin alpha 9	3.26E-08	NM_001113514 /// NM_133721
61	Usp3	ubiquitin specific peptidase 3	3.27E-08	NM_144937
62	Ndn	necdin	3.32E-08	NM_010882
63	5730403B10Rik	RIKEN cDNA 5730403B10 gene	3.37E-08	NM_025670
64	---	---	3.39E-08	---
65	Ear2	eosinophil-associated, ribonuclease A family, member 2	3.42E-08	NM_007895
66	Slamf9	SLAM family member 9	3.47E-08	NM_029612
67	Ccl9	chemokine (C-C motif) ligand 9	3.61E-08	NM_011338
68	Lrrflp1	leucine rich repeat (in FLII) interacting protein 1	3.69E-08	NM_001111311 /// NM_001111312 /// NM_008515
69	Ppap2a	phosphatidic acid phosphatase type 2A	3.69E-08	NM_008247 /// NM_008903
70	Cxxc5	CXXC finger 5	3.76E-08	NM_133687
71	Tmem176a	transmembrane protein 176A	3.89E-08	NM_001098271 /// NM_025326
72	Fbn1	fibrillin 1	4.05E-08	NM_007993
73	Nek7	NIMA (never in mitosis gene a)-related expressed kinase 7	4.12E-08	NM_021605
74	Nrp1	neuropilin 1	4.22E-08	NM_008737
75	Cyp2b10	cytochrome P450, family 2, subfamily b, polypeptide 10	4.70E-08	NM_009998 /// NM_009999
76	6720475J19Rik	RIKEN cDNA 6720475J19 gene	4.71E-08	XM_001474896 /// XM_001481296
77	Ccl8	chemokine (C-C motif) ligand 8	4.92E-08	NM_021443 /// XM_001480890
78	Prkcz	protein kinase C, zeta	5.19E-08	NM_001039079 /// NM_008860
79	Tspan15	tetraspanin 15	5.52E-08	NM_197996
80	2010107G23Rik	RIKEN cDNA 2010107G23 gene	5.96E-08	NM_027251
81	Ctsb	cathepsin B	6.05E-08	NM_007798
82	Col3a1	collagen, type III, alpha 1	6.28E-08	NM_009930
83	C1s /// LOC100044326	complement component 1, s subcomponent /// similar to Complement component 1	6.80E-08	NM_001097617 /// NM_144938 /// XR_030514
84	Extl2	exostosin (multiple)-like 2	6.86E-08	NM_001163514 /// NM_001163515 /// NM_021388
85	Cd36	CD36 antigen	6.90E-08	NM_001159555 /// NM_001159556 /// NM_001159557 /// NM_001159558 ///
86	Egln1	EGL nine homolog 1 (C. elegans)	6.96E-08	NM_053207
87	Degs1	degenerative spermatocyte homolog 1 (Drosophila)	7.32E-08	NM_007853
88	Kdm5b	lysine (K)-specific demethylase 5B	7.36E-08	NM_152895
89	Ptger4	prostaglandin E receptor 4 (subtype EP4)	8.23E-08	NM_001136079 /// NM_008965

90	Ttc8	tetratricopeptide repeat domain 8	8.46E-08	NM_029553 /// NM_198311
91	Lifr	leukemia inhibitory factor receptor	8.61E-08	NM_001113386 /// NM_013584
92	Ccdc80	coiled-coil domain containing 80	8.72E-08	NM_026439
93	Ugt1a1 /// Ugt1a10 /// Ugt1a2	UDP glucuronosyltransferase 1 family, polypeptide A1 /// UDP glycosyltransferase	9.26E-08	NM_013701 /// NM_145079 /// NM_201410 /// NM_201641 /// NM_201642 ///
94	Smad7	MAD homolog 7 (Drosophila)	9.72E-08	NM_001042660
95	Impad1	inositol monophosphatase domain containing 1	1.02E-07	NM_177730
96	Dsp	desmoplakin	1.03E-07	NM_023842 /// XM_001481272 /// XM_621314 /// XM_896350
97	Frmf6	FERM domain containing 6	1.05E-07	NM_028127
98	Ripply3	rippy3 homolog (zebrafish)	1.06E-07	NM_133229
99	Ccdc23	coiled-coil domain containing 23	1.09E-07	NM_001038998 /// NM_024462
100	Degs1	degenerative spermatocyte homolog 1 (Drosophila)	1.10E-07	NM_007853
101	Sntg2	syntrophin, gamma 2	1.11E-07	NM_172951
102	Gpnmb	glycoprotein (transmembrane) nmb	1.15E-07	NM_053110
103	Pkp4	plakophilin 4	1.16E-07	NM_026361 /// NM_175464
104	Prpf19	PRP19/PSO4 pre-mRNA processing factor 19 homolog (S. cerevisiae)	1.21E-07	NM_134129
105	Sgpp1	sphingosine-1-phosphate phosphatase 1	1.23E-07	NM_030750
106	Antxr2	anthrax toxin receptor 2	1.24E-07	NM_133738
107	Colec12	collectin sub-family member 12	1.28E-07	NM_130449
108	Golm1	golgi membrane protein 1	1.30E-07	NM_001035122 /// NM_027307
109	Meg3	maternally expressed 3	1.31E-07	NR_003633 /// NR_027651 /// NR_027652 /// XR_035480 /// XR_035483 ///
110	S100a10	S100 calcium binding protein A10 (calpactin)	1.36E-07	NM_009112
111	Postn	perlastin, osteoblast specific factor	1.42E-07	NM_015784
112	Ppap2a	phosphatidic acid phosphatase type 2A	1.43E-07	NM_008247 /// NM_008903
113	Unc50	unc-50 homolog (C. elegans)	1.46E-07	NM_026123
114	Pcolce	procollagen C-endopeptidase enhancer protein	1.48E-07	NM_008788
115	Lgals3	lectin, galactose binding, soluble 3	1.48E-07	NM_001145953 /// NM_010705
116	Gsbs	G substrate	1.51E-07	NM_011153
117	Klk1	kallikrein 1	1.53E-07	NM_010639
118	Ndn	necdin	1.55E-07	NM_010882
119	Usp2	ubiquitin specific peptidase 2	1.67E-07	NM_016808 /// NM_198091 /// NM_198092
120	Ubl5	ubiquitin-like 5	1.67E-07	NM_025401
121	Cyp27b1	cytochrome P450, family 27, subfamily b, polypeptide 1	1.68E-07	NM_010009
122	Mrc1	mannose receptor, C type 1	1.77E-07	NM_008625
123	Dcn	decorin	1.79E-07	NM_007833
124	Slc12a8	solute carrier family 12 (potassium/chloride transporters), member 8	1.87E-07	NM_001083902 /// NM_134251
125	Gbp2	guanylate binding protein 2	1.95E-07	NM_010260
126	Cxxc5	CXXC finger 5	1.97E-07	NM_133687
127	Grasp	GRP1 (general receptor for phosphoinositides 1)-associated scaffold protein	2.01E-07	NM_019518
128	Usp3	ubiquitin specific peptidase 3	2.01E-07	NM_144937
129	Cyp4v3	cytochrome P450, family 4, subfamily v, polypeptide 3	2.04E-07	NM_133969
130	Emb	embigin	2.09E-07	NM_010330
131	Ifi205 /// Mnda	interferon activated gene 205 /// myeloid cell nuclear differentiation antigen	2.19E-07	NM_001033450 /// NM_172648
132	Gm5560 /// Gm8429 /// Slc25g5	predicted gene 5560 /// predicted gene 8429 /// solute carrier family 25 (mitoch	2.20E-07	NM_001081233 /// NM_007451 /// XR_033177
133	Lyz2	lysozyme 2	2.31E-07	NM_017372
134	LOC664787	similar to Sp110 nuclear body protein	2.31E-07	XR_030524
135	Rab25	RAB25, member RAS oncogene family	2.59E-07	NM_016899

136	C4bp	complement component 4 binding protein	2.68E-07	NM_007576
137	Emb	embigin	2.70E-07	NM_010330
138	Htra1	HtrA serine peptidase 1	2.72E-07	NM_019564
139	Tgfb1	transforming growth factor, beta induced	2.85E-07	NM_009369
140	Fabp4	fatty acid binding protein 4, adipocyte	2.88E-07	NM_024406
141	Hnrnpu	heterogeneous nuclear ribonucleoprotein U	2.96E-07	NM_016805
142	Dpyd	dihydropyrimidine dehydrogenase	2.99E-07	NM_170778
143	Tmeff2	transmembrane protein with EGF-like and two follistatin-like domains 2	2.99E-07	NM_019790
144	Gnai1	guanine nucleotide binding protein (G protein), alpha inhibiting 1	3.00E-07	NM_010305
145	Ptpn20	protein tyrosine phosphatase, non-receptor type 20	3.02E-07	NM_008978
146	Igl-V1	immunoglobulin lambda chain, variable 1	3.09E-07	---
147	Fbxo28	F-box protein 28	3.10E-07	NM_175127
148	Igf1	insulin-like growth factor 1	3.27E-07	NM_001111274 /// NM_001111275 /// NM_001111276 /// NM_010512 /// NM
149	Ndn	necdin	3.28E-07	NM_010882
150	Gstt1	glutathione S-transferase, theta 1	3.29E-07	NM_008185
151	Snrpn /// Snurf	small nuclear ribonucleoprotein N /// SNRPN upstream reading frame	3.39E-07	NM_001082961 /// NM_001082962 /// NM_013670 /// NM_033174
152	Scn11a	sodium channel, voltage-gated, type XI, alpha	3.56E-07	NM_011887
153	Cops7b	COP9 (constitutive photomorphogenic) homolog, subunit 7b (Arabidopsis thaliana)	3.56E-07	NM_172974
154	Ndufv3	NADH dehydrogenase (ubiquinone) flavoprotein 3	3.59E-07	NM_001083891 /// NM_030087
155	Trpc1	transient receptor potential cation channel, subfamily C, member 1	3.64E-07	NM_011643
156	Gpx8	glutathione peroxidase 8 (putative)	3.68E-07	NM_027127
157	Fhl1	four and a half LIM domains 1	3.73E-07	NM_001077361 /// NM_001077362 /// NM_010211
158	Gspt2	G1 to S phase transition 2	3.75E-07	NM_008179
159	Fam100b	family with sequence similarity 100, member B	3.76E-07	NM_176902
160	Cbr2	carbonyl reductase 2	3.78E-07	NM_007621
161	Bcl11a	B-cell CLL/lymphoma 11A (zinc finger protein)	4.00E-07	NM_001159289 /// NM_001159290 /// NM_016707
162	Fstl1	follistatin-like 1	4.13E-07	NM_008047
163	Gsta4	glutathione S-transferase, alpha 4	4.15E-07	NM_010357
164	Dazl	deleted in azoospermia-like	4.18E-07	NM_010021
165	Lcp1	lymphocyte cytosolic protein 1	4.20E-07	NM_008879
166	Efemp1	epidermal growth factor-containing fibulin-like extracellular matrix protein 1	4.29E-07	NM_146015
167	Vim	vimentin	4.38E-07	NM_011701
168	Spats2	spermatogenesis associated, serine-rich 2	4.38E-07	NM_139140
169	Gbp2	guanylate binding protein 2	4.40E-07	NM_010260
170	Cd36	CD36 antigen	4.46E-07	NM_001159555 /// NM_001159556 /// NM_001159557 /// NM_001159558 ///
171	Mpeg1	macrophage expressed gene 1	4.47E-07	NM_010821
172	Ctsb	cathepsin B	4.57E-07	NM_007798
173	Klk1b22 /// Klk1b9	kallikrein 1-related peptidase b22 /// kallikrein 1-related peptidase b9	4.58E-07	NM_010114 /// NM_010116
174	Nrp1	neuropilin 1	4.65E-07	NM_008737
175	Cryab	crystallin, alpha B	4.67E-07	NM_009964
176	Cnn3 /// LOC100047856	calponin 3, acidic /// similar to calponin 3, acidic	4.82E-07	NM_028044 /// XM_001479297
177	Nucb2	nucleobindin 2	5.09E-07	NM_001130479 /// NM_016773
178	LOC641050	hypothetical protein LOC641050	5.10E-07	XM_918370
179	Plin2	perilipin 2	5.11E-07	NM_007408
180	Hmgn3	high mobility group nucleosomal binding domain 3	5.26E-07	NM_026122 /// NM_175074
181	Igf1	insulin-like growth factor 1	5.31E-07	NM_001111274 /// NM_001111275 /// NM_001111276 /// NM_010512 /// NM

182	Ptpn4	protein tyrosine phosphatase, non-receptor type 4	5.35E-07	NM_019933
183	Aldh1a2	aldehyde dehydrogenase family 1, subfamily A2	5.37E-07	NM_009022
184	Aox4	aldehyde oxidase 4	5.39E-07	NM_023631
185	Trak1	trafficking protein, kinesin binding 1	5.50E-07	NM_175114
186	Basp1 /// LOC100045716	brain abundant, membrane attached signal protein 1 /// similar to 22 kDa neurona	5.72E-07	NM_027395 /// XM_001474796
187	Bcl2l1	BCL2-like 1	5.82E-07	NM_009743
188	Skil	SKI-like	5.89E-07	NM_001039090 /// NM_011386
189	Lamb1-1	laminin B1 subunit 1	6.19E-07	NM_008482
190	Fcgr3	Fc receptor, IgG, low affinity III	6.24E-07	NM_010188
191	Eif4e3	eukaryotic translation initiation factor 4E member 3	6.33E-07	NM_025829
192	Lyz1	lysozyme 1	6.40E-07	NM_013590
193	Sash1	SAM and SH3 domain containing 1	6.71E-07	NM_175155
194	Col6a2	collagen, type VI, alpha 2	6.73E-07	NM_146007
195	Osgin1	oxidative stress induced growth inhibitor 1	6.94E-07	NM_027950
196	Dynlt3	dynein light chain Tctex-type 3	7.11E-07	NM_025975
197	Grem2	gremlin 2 homolog, cysteine knot superfamily (Xenopus laevis)	7.39E-07	NM_011825
198	Rdx	radixin	7.96E-07	NM_001104616 /// NM_001104617 /// NM_009041
199	Wwp1	WW domain containing E3 ubiquitin protein ligase 1	8.10E-07	NM_177327
200	Tprkb	Tp53rk binding protein	8.33E-07	NM_176842
201	Fcgr2b	Fc receptor, IgG, low affinity IIb	8.37E-07	NM_001077189 /// NM_010187
202	Cnn3	Calponin 3, acidic	8.62E-07	NM_028044
203	9530028C05	hypothetical protein 9530028C05	8.71E-07	---
204	Slain1	SLAIN motif family, member 1	8.80E-07	NM_198014
205	Gp49a /// LILRB4	glycoprotein 49 A /// leukocyte immunoglobulin-like receptor, subfamily B, membe	9.17E-07	NM_008147 /// NM_013532
206	Ifi203	interferon activated gene 203	9.26E-07	NM_001045481 /// NM_008328
207	LOC100038746	hypothetical LOC100038746	9.27E-07	---
208	Map4k4	mitogen-activated protein kinase kinase kinase kinase 4	9.54E-07	NM_008696
209	Gfra3 /// LOC100045484	glial cell line derived neurotrophic factor family receptor alpha 3 /// similar	9.60E-07	NM_010280 /// XM_001474380
210	Cald1	caldesmon 1	9.88E-07	NM_145575
211	Matn2	matrilin 2	1.02E-06	NM_016762
212	Spint1	serine protease inhibitor, Kunitz type 1	1.04E-06	NM_016907
213	Fstl1	follicle-stimulating hormone-like 1	1.07E-06	NM_008047
214	Pf4	platelet factor 4	1.09E-06	NM_019932
215	Gpr137b-ps	G protein-coupled receptor 137B, pseudogene	1.10E-06	NR_003568 /// XR_001658
216	Hrh1 /// LOC100041871	histamine receptor H1 /// similar to histamine receptor H1	1.11E-06	NM_008285 /// XR_031594
217	Dek	DEK oncogene (DNA binding)	1.13E-06	NM_025900
218	Ccnd1	cyclin D1	1.16E-06	NM_007631
219	Asb4	ankyrin repeat and SOCS box-containing 4	1.17E-06	NM_023048
220	Scap	SREBF chaperone	1.19E-06	NM_001001144 /// NM_001103162
221	Fxyd1	FXD domain-containing ion transport regulator 1	1.20E-06	NM_019503 /// NM_052991 /// NM_052992 /// NM_194321
222	---	---	1.21E-06	---
223	Vamp1	vesicle-associated membrane protein 1	1.24E-06	NM_001080557 /// NM_009496
224	Adpgk	ADP-dependent glucokinase	1.24E-06	NM_028121
225	Hlcs	holocarboxylase synthetase (biotin- [propionyl-Coenzyme A-carboxylase (ATP-hydro	1.24E-06	NM_139145
226	Timp2	tissue inhibitor of metalloproteinase 2	1.25E-06	NM_011594
227	Cyp1b1	cytochrome P450, family 1, subfamily b, polypeptide 1	1.26E-06	NM_009994

228	1500031L02RIK	RIKEN cDNA 1500031L02 gene	1.27E-06	NM_025892
229	Cdc37	cell division cycle 37 homolog (S. cerevisiae)	1.29E-06	NM_016742
230	Gpr137b /// Gpr137b-ps /// LO	G protein-coupled receptor 137B /// G protein-coupled receptor 137B, pseudogene	1.30E-06	NM_031999 /// NR_003568 /// XM_001473441 /// XR_001658
231	Mfsd4	major facilitator superfamily domain containing 4	1.32E-06	NM_001114662 /// NM_172510
232	Runx111	runx-related transcription factor 1; translocated to, 1 (cyclin D-related)	1.33E-06	NM_001111026 /// NM_001111027 /// NM_009822
233	C2cd2l	C2 calcium-dependent domain containing 2-like	1.34E-06	NM_027909
234	Dennd4c	DENN/MADD domain containing 4C	1.39E-06	NM_001081014
235	Guca2b	guanylate cyclase activator 2b (retina)	1.41E-06	NM_008191
236	Pip5k1b	phosphatidylinositol-4-phosphate 5-kinase, type 1 beta	1.46E-06	NM_008846
237	Col3a1	collagen, type III, alpha 1	1.50E-06	NM_009930
238	Tgfb2	transforming growth factor, beta 2	1.51E-06	NM_009367
239	Entpd2	ectonucleoside triphosphate diphosphohydrolase 2	1.52E-06	NM_009849
240	Myl12b	myosin, light chain 12B, regulatory	1.54E-06	NM_023402
241	Car3	carbonic anhydrase 3	1.54E-06	NM_007606
242	Fads2	fatty acid desaturase 2	1.54E-06	NM_019699
243	Ms4a6d	membrane-spanning 4-domains, subfamily A, member 6D	1.58E-06	NM_026835
244	Gramd3	GRAM domain containing 3	1.59E-06	NM_026240
245	Dnaja1	DnaJ (Hsp40) homolog, subfamily A, member 1	1.59E-06	NM_008298
246	Pls3	plastin 3 (T-isoform)	1.60E-06	NM_145629
247	O610040J01RIK	RIKEN cDNA O610040J01 gene	1.61E-06	NM_029554
248	Ctse	cathepsin E	1.62E-06	NM_007799
249	Prpf19	PRP19/PSO4 pre-mRNA processing factor 19 homolog (S. cerevisiae)	1.62E-06	NM_134129
250	Gsn	gelsolin	1.66E-06	NM_146120
251	Endod1	endonuclease domain containing 1	1.72E-06	NM_028013
252	Gpr137b	G protein-coupled receptor 137B	1.79E-06	NM_031999
253	Ngfrap1	nerve growth factor receptor (TNFRSF16) associated protein 1	1.80E-06	NM_001110233 /// NM_001110234 /// NM_009750
254	Smad6	MAD homolog 6 (Drosophila)	1.82E-06	NM_008542
255	Cdcp1	CUB domain containing protein 1	1.89E-06	NM_133974
256	Cxcl12	chemokine (C-X-C motif) ligand 12	1.94E-06	NM_001012477 /// NM_013655 /// NM_021704
257	Gbp1	guanylate binding protein 1	1.94E-06	NM_010259
258	Fkbp9	FK506 binding protein 9	1.99E-06	NM_012056
259	Stab1	stabilin 1	2.03E-06	NM_138672
260	Tcta	T-cell leukemia translocation altered gene	2.05E-06	NM_133986
261	Cyp27a1	cytochrome P450, family 27, subfamily a, polypeptide 1	2.06E-06	NM_024264
262	Reep3	receptor accessory protein 3	2.08E-06	NM_178606
263	Tnk2	tyrosine kinase, non-receptor, 2	2.13E-06	NM_001110147 /// NM_016788
264	Sqrdl	sulfide quinone reductase-like (yeast)	2.17E-06	NM_001162503 /// NM_021507 /// NR_027888
265	Klhl22	kelch-like 22 (Drosophila)	2.19E-06	NM_145479 /// XM_001475578 /// XM_001478907
266	Pfn2	profilin 2	2.22E-06	NM_019410
267	Mdfic	MyoD family inhibitor domain containing	2.24E-06	NM_175088
268	Fam92a	family with sequence similarity 92, member A	2.27E-06	NM_026558
269	Igf1	insulin-like growth factor 1	2.27E-06	NM_001111274 /// NM_001111275 /// NM_001111276 /// NM_010512 /// NM
270	Cald1	caldesmon 1	2.28E-06	NM_145575
271	Gns	glucosamine (N-acetyl)-6-sulfatase	2.31E-06	NM_029364
272	Fmod	fibromodulin	2.34E-06	NM_021355
273	Fth1	ferritin heavy chain 1	2.38E-06	NM_010239

274	Upp1	uridine phosphorylase 1	2.40E-06	NM_001159401 /// NM_001159402 /// NM_009477
275	Klra5	killer cell lectin-like receptor, subfamily A, member 5	2.42E-06	NM_008463
276	Ms4a7	membrane-spanning 4-domains, subfamily A, member 7	2.44E-06	NM_001025610 /// NM_027836
277	Spo11	sporulation protein, meiosis-specific, SPO11 homolog (S. cerevisiae)	2.45E-06	NM_001083959 /// NM_001083960 /// NM_012046
278	Ch25h	cholesterol 25-hydroxylase	2.45E-06	NM_009890
279	Matk	megakaryocyte-associated tyrosine kinase	2.45E-06	NM_010768
280	Pdgfc	platelet-derived growth factor, C polypeptide	2.46E-06	NM_019971
281	Hipk1	homeodomain interacting protein kinase 1	2.49E-06	NM_010432
282	Adcy9	adenylate cyclase 9	2.51E-06	NM_009624
283	Prdx1	peroxiredoxin 1	2.57E-06	NM_011034
284	Pftk1	PFTAIRE protein kinase 1	2.59E-06	NM_011074
285	Gas5	growth arrest specific 5	2.59E-06	NR_002840
286	Ugt1a1 /// Ugt1a10 /// Ugt1a2	UDP glucuronosyltransferase 1 family, polypeptide A1 /// UDP glycosyltransferase	2.62E-06	NM_013701 /// NM_145079 /// NM_201410 /// NM_201641 /// NM_201642 ///
287	Mmp23	matrix metalloproteinase 23	2.65E-06	NM_011985
288	Ttc39b	tetratricopeptide repeat domain 39B	2.66E-06	NM_027238
289	Pgcp	plasma glutamate carboxypeptidase	2.73E-06	NM_018755 /// NM_176073
290	Cnn3 /// LOC100047856	calponin 3, acidic /// similar to calponin 3, acidic	2.74E-06	NM_028044 /// XM_001479297
291	Ccl6	chemokine (C-C motif) ligand 6	2.74E-06	NM_009139
292	Tmem176b	transmembrane protein 176B	2.77E-06	NM_001164207 /// NM_001164208 /// NM_001164209 /// NM_023056
293	Spp1	secreted phosphoprotein 1	2.81E-06	NM_009263
294	Col20a1	collagen, type XX, alpha 1	2.83E-06	XM_001473208 /// XM_914804
295	Serpnb1a	serine (or cysteine) peptidase inhibitor, clade B, member 1a	2.84E-06	NM_025429
296	Reep3	receptor accessory protein 3	2.85E-06	NM_178606
297	Lipt1	lipoyltransferase 1	2.87E-06	NM_001037918
298	Cklf	chemokine-like factor	2.88E-06	NM_001037841 /// NM_029295
299	Gdap2	ganglioside-induced differentiation-associated-protein 2	2.89E-06	NM_010269
300	Ptprf	protein tyrosine phosphatase, receptor type, F	2.99E-06	NM_011213
301	Notch2	Notch gene homolog 2 (Drosophila)	3.01E-06	NM_010928
302	Obfc2b	oligonucleotide/oligosaccharide-binding fold containing 2B	3.18E-06	NM_027257
303	Dsp	desmoplakin	3.26E-06	NM_023842 /// XM_001481272 /// XM_621314 /// XM_896350
304	Morf4l1	mortality factor 4 like 1	3.32E-06	NM_001039147 /// NM_024431
305	Xpr1	xenotropic and polytropic retrovirus receptor 1	3.46E-06	NM_011273
306	Vim	vimentin	3.59E-06	NM_011701
307	Rb1cc1	RB1-inducible coiled-coil 1	3.64E-06	NM_009826
308	Uck2	uridine-cytidine kinase 2	3.73E-06	NM_030724
309	Cyp2b10	cytochrome P450, family 2, subfamily b, polypeptide 10	3.88E-06	NM_009998 /// NM_009999
310	Sipa1l2	signal-induced proliferation-associated 1 like 2	3.92E-06	NM_001081337
311	Cabc1	chaperone, ABC1 activity of bc1 complex like (S. pombe)	3.95E-06	NM_001163290 /// NM_023341
312	Cnn3 /// LOC100047856	calponin 3, acidic /// similar to calponin 3, acidic	3.95E-06	NM_028044 /// XM_001479297
313	Vpreb3	pre-B lymphocyte gene 3	3.97E-06	NM_009514
314	D4Wsu53e	DNA segment, Chr 4, Wayne State University 53, expressed	3.99E-06	NM_023665
315	Serpinf1	serine (or cysteine) peptidase inhibitor, clade F, member 1	3.99E-06	NM_011340
316	Tyrobp	TYRO protein tyrosine kinase binding protein	4.02E-06	NM_011662
317	a	nonagouti	4.03E-06	NM_015770
318	Tgfb1	transforming growth factor, beta induced	4.06E-06	NM_009369
319	Tlr4	toll-like receptor 4	4.08E-06	NM_021297

320	Macrod1	:MACRO domain containing 1	4.09E-06	NM_134147
321	Csf1r	:colony stimulating factor 1 receptor	4.10E-06	NM_001037859
322	Sid12	:SID1 transmembrane family, member 2	4.21E-06	NM_172257
323	Ccl6	:chemokine (C-C motif) ligand 6	4.27E-06	NM_009139
324	Klhl13	:kelch-like 13 (Drosophila)	4.27E-06	NM_026167
325	Bmp2k	:BMP2 inducible kinase	4.33E-06	NM_080708
326	Sgk1	:serum/glucocorticoid regulated kinase 1	4.36E-06	NM_001161845 /// NM_001161847 /// NM_001161848 /// NM_001161849 ///
327	Ndr1	:N-myc downstream regulated gene 1	4.42E-06	NM_008681
328	Aplp2	:amyloid beta (A4) precursor-like protein 2	4.44E-06	NM_001102455 /// NM_001102456 /// NM_009691
329	1810063B05Rik	:RIKEN cDNA 1810063B05 gene	4.47E-06	NM_174987
330	Cib2	:calcium and integrin binding family member 2	4.52E-06	NM_019686
331	Nbea	:neurobeachin	4.57E-06	NM_030595
332	Ptplad2	:protein tyrosine phosphatase-like A domain containing 2	4.59E-06	NM_025760
333	Hck	:hemopoietic cell kinase	4.61E-06	NM_010407
334	Ppap2b	:phosphatidic acid phosphatase type 2B	4.64E-06	NM_080555
335	Pmp22	:peripheral myelin protein 22	4.65E-06	NM_008885
336	Figf /// LOC100047108	:c-fos induced growth factor /// similar to FIGF	4.67E-06	NM_010216 /// XM_001477393
337	Fkbp9	:FK506 binding protein 9	4.68E-06	NM_012056
338	Ahnak	:AHNAK nucleoprotein (desmoyokin)	4.80E-06	NM_001039959 /// NM_009643
339	Ckif	:chemokine-like factor	4.89E-06	NM_001037841 /// NM_029295
340	Lgals1	:lectin, galactose binding, soluble 1	4.94E-06	NM_008495
341	Rpl14	:ribosomal protein L14	4.96E-06	NM_025974
342	Anxa2	:annexin A2	5.03E-06	NM_007585
343	Ptpn22	:protein tyrosine phosphatase, non-receptor type 22 (lymphoid)	5.04E-06	NM_008979
344	Tbcel	:tubulin folding cofactor E-like	5.04E-06	NM_173038
345	Cd93	:CD93 antigen	5.06E-06	NM_010740
346	Rpl14	:ribosomal protein L14	5.10E-06	NM_025974
347	Sema3f	:sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin)	5.11E-06	NM_011349
348	Kdm5b	:lysine (K)-specific demethylase 5B	5.23E-06	NM_152895
349	Cav1	:caveolin 1, caveolae protein	5.23E-06	NM_007616
350	Igh /// Igh-2 /// Igh-VJ558 ///	:immunoglobulin heavy chain complex /// immunoglobulin heavy chain 2 (serum IgA)	5.23E-06	---
351	Htra1	:HtrA serine peptidase 1	5.24E-06	NM_019564
352	Xpo1	:exportin 1, CRM1 homolog (yeast)	5.27E-06	NM_001035226 /// NM_134014
353	Timp2	:tissue inhibitor of metalloproteinase 2	5.38E-06	NM_011594
354	Trp53inp2	:transformation related protein 53 inducible nuclear protein 2	5.42E-06	NM_178111
355	Dnmt3a	:DNA methyltransferase 3A	5.42E-06	NM_007872 /// NM_153743
356	Pnp1	:pyridoxine 5'-phosphate oxidase	5.59E-06	NM_134021
357	Cnn3 /// LOC100047856	:calponin 3, acidic /// similar to calponin 3, acidic	5.65E-06	NM_028044 /// XM_001479297
358	Rel1	:RELT-like 1	5.97E-06	NM_145923
359	Slc1a1	:solute carrier family 1 (neuronal/epithelial high affinity glutamate transporter)	6.15E-06	NM_009199
360	Dusp7	:dual specificity phosphatase 7	6.20E-06	NM_153459
361	Lama4	:laminin, alpha 4	6.20E-06	NM_010681
362	Pawr	:PRKC, apoptosis, WT1, regulator	6.28E-06	NM_054056
363	Agl	:amylo-1,6-glucosidase, 4-alpha-glucanotransferase	6.63E-06	NM_001081326
364	Anxa1	:annexin A1	6.63E-06	NM_010730
365	Trf	:transferrin	6.64E-06	NM_133977

366	Scgb3a1	secretoglobin, family 3A, member 1	6.70E-06	NM_054037 /// NM_170727
367	Kitl	kit ligand	6.73E-06	NM_013598
368	Ifi203	interferon activated gene 203	6.74E-06	NM_001045481 /// NM_008328
369	Adnp2	ADNP homeobox 2	6.77E-06	NM_175028 /// XM_140497 /// XM_989242
370	Hapln1	hyaluronan and proteoglycan link protein 1	6.77E-06	NM_013500
371	Dcaf8	DDB1 and CUL4 associated factor 8	6.78E-06	NM_153555
372	Cbs	cystathionine beta-synthase	6.79E-06	NM_144855 /// NM_178224
373	Syk	spleen tyrosine kinase	6.82E-06	NM_011518
374	Phldb2	pleckstrin homology-like domain, family B, member 2	6.96E-06	NM_153412
375	Scd1	stearoyl-Coenzyme A desaturase 1	6.98E-06	NM_009127
376	Ckif	chemokine-like factor	7.11E-06	NM_001037841 /// NM_029295
377	Asb5	ankyrin repeat and SOCs box-containing 5	7.18E-06	NM_029569
378	Plxnc1	plexin C1	7.32E-06	NM_018797
379	Dram1	DNA-damage regulated autophagy modulator 1	7.33E-06	NM_027878
380	Osbpl2	oxysterol binding protein-like 2	7.41E-06	NM_144500
381	Hsd17b11	hydroxysteroid (17-beta) dehydrogenase 11	7.55E-06	NM_053262
382	Rab30	RAB30, member RAS oncogene family	7.64E-06	NM_029494
383	Frdm4b	FERM domain containing 4B	7.70E-06	NM_145148
384	Pira2	paired-Ig-like receptor A2	7.80E-06	NM_011089
385	Chst1	carbohydrate (keratan sulfate Gal-6) sulfotransferase 1	7.87E-06	NM_023850
386	Zc3h11a	zinc finger CCCH type containing 11A	7.91E-06	NM_144530
387	Aldoc	aldolase C, fructose-bisphosphate	7.92E-06	NM_009657
388	Il2rg	interleukin 2 receptor, gamma chain	7.95E-06	NM_013563
389	Prdx6	peroxiredoxin 6	8.11E-06	NM_007453
390	Pam	peptidylglycine alpha-amidating monooxygenase	8.19E-06	NM_013626
391	Marcks	myristoylated alanine rich protein kinase C substrate	8.22E-06	NM_008538
392	Endod1	endonuclease domain containing 1	8.25E-06	NM_028013
393	Prcp	prolylcarboxypeptidase (angiotensinase C)	8.61E-06	NM_028243 /// XR_034467
394	Arsg	arylsulfatase G	8.77E-06	NM_028710
395	Usp2	ubiquitin specific peptidase 2	8.78E-06	NM_016808 /// NM_198091 /// NM_198092
396	Cd209g	CD209g antigen	8.83E-06	XM_284376 /// XM_904704
397	Tfrc	transferrin receptor	8.86E-06	NM_011638
398	Gpr177	G protein-coupled receptor 177	8.95E-06	NM_026582
399	Rnf214	ring finger protein 214	8.98E-06	NM_178709
400	Decr1	2,4-dienoyl CoA reductase 1, mitochondrial	9.03E-06	NM_026172
401	Slc6a8	solute carrier family 6 (neurotransmitter transporter, creatine), member 8	9.25E-06	NM_001142809 /// NM_001142810 /// NM_133987
402	Il7r	interleukin 7 receptor	9.26E-06	NM_008372
403	Gm2397	predicted gene 2397	9.34E-06	XM_001473420
404	Ubi7	ubiquitin-like 7 (bone marrow stromal cell-derived)	9.43E-06	NM_001122873 /// NM_027086
405	Cd34	CD34 antigen	9.79E-06	NM_001111059 /// NM_133654
406	Man1a2	mannosidase, alpha, class 1A, member 2	1.01E-05	NM_010763
407	Igk-V1	immunoglobulin kappa chain variable 1 (V1)	1.02E-05	---
408	Cd68	CD68 antigen	1.05E-05	NM_009853
409	Bex2	brain expressed X-linked 2	1.06E-05	NM_009749
410	Cfh /// LOC100048018	complement component factor h /// similar to complement component factor H	1.06E-05	NM_009888 /// XM_001479650
411	Spint2	serine protease inhibitor, Kunitz type 2	1.06E-05	NM_001082548 /// NM_011464

412	Meis1	Meis homeobox 1	1.07E-05	NM_010789
413	Ndn	neclin	1.07E-05	NM_010882
414	Galnt1	UDP-N-acetyl-alpha-D-galactosamine: polypeptide N-acetylgalactosaminyltransferase	1.08E-05	NM_001160404 /// NM_013814
415	Rel1	RELT-like 1	1.08E-05	NM_145923
416	Gas6	growth arrest specific 6	1.09E-05	NM_019521
417	Mttp	microsomal triglyceride transfer protein	1.09E-05	NM_001163457 /// NM_008642
418	Fcrla	Fc receptor-like A	1.09E-05	NM_001160215 /// NM_145141 /// NR_027666
419	Napg	N-ethylmaleimide sensitive fusion protein attachment protein gamma	1.10E-05	NM_028017
420	Cd47	CD47 antigen (Rh-related antigen, integrin-associated signal transducer)	1.10E-05	NM_010581
421	Cav2	caveolin 2	1.11E-05	NM_016900
422	Glrx2	glutaredoxin 2 (thioltransferase)	1.12E-05	NM_001038592 /// NM_001038593 /// NM_001038594 /// NM_023505
423	Stxbp6	syntaxin binding protein 6 (amisyn)	1.13E-05	NM_144552
424	Tpst2	protein-tyrosine sulfotransferase 2	1.16E-05	NM_009419
425	---	---	1.18E-05	---
426	Ltbp2	latent transforming growth factor beta binding protein 2	1.21E-05	NM_013589
427	Tcea1	transcription elongation factor A (SII) 1	1.21E-05	NM_001159750 /// NM_001159751 /// NM_011541
428	Cfb	complement factor B	1.22E-05	NM_001142706 /// NM_008198
429	Alox5ap	arachidonate 5-lipoxygenase activating protein	1.23E-05	NM_009663
430	Boc	biregional cell adhesion molecule-related/down-regulated by oncogenes (Cdon) bin	1.24E-05	NM_172506
431	Spint2	serine protease inhibitor, Kunitz type 2	1.24E-05	NM_001082548 /// NM_011464
432	Casp3	caspase 3	1.25E-05	NM_009810
433	Ifi203	interferon activated gene 203	1.26E-05	NM_001045481 /// NM_008328
434	C4b	complement component 4B (Chido blood group)	1.27E-05	NM_009780
435	Acsl6	acyl-CoA synthetase long-chain family member 6	1.27E-05	NM_001033597 /// NM_001033598 /// NM_001033599 /// NM_144823
436	Grp	gastrin releasing peptide	1.27E-05	NM_175012
437	Man2c1	mannosidase, alpha, class 2C, member 1	1.27E-05	NM_028636
438	Cxcl12	chemokine (C-X-C motif) ligand 12	1.28E-05	NM_001012477 /// NM_013655 /// NM_021704
439	Pml	promyelocytic leukemia	1.31E-05	NM_008884 /// NM_178087
440	Itga6	integrin alpha 6	1.32E-05	NM_008397
441	Igsf6	immunoglobulin superfamily, member 6	1.32E-05	NM_030691
442	Gprc5b	G protein-coupled receptor, family C, group 5, member B	1.33E-05	NM_022420
443	Sh3kbp1	SH3-domain kinase binding protein 1	1.34E-05	NM_001135727 /// NM_001135728 /// NM_021389
444	Adamts5 /// LOC100048332	a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin ty	1.35E-05	NM_0111782 /// XM_001480027
445	Eef1a2	eukaryotic translation elongation factor 1 alpha 2	1.35E-05	NM_007906
446	Rtkn	rhotekin	1.36E-05	NM_001136227 /// NM_009106 /// NM_133641
447	Mlh1	mutL homolog 1 (E. coli)	1.37E-05	NM_026810
448	Sil1	endoplasmic reticulum chaperone SIL1 homolog (S. cerevisiae)	1.37E-05	NM_030749
449	Ap1s2	adaptor-related protein complex 1, sigma 2 subunit	1.38E-05	NM_026887
450	Thrsp	thyroid hormone responsive SPOT14 homolog (Rattus)	1.40E-05	NM_009381
451	Pacsin1	protein kinase C and casein kinase substrate in neurons 1	1.40E-05	NM_011861 /// NM_178365
452	Ndst3	N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 3	1.40E-05	NM_031186
453	Fmn2 /// LOC100044570	formin 2 /// similar to formin-2	1.40E-05	NM_019445 /// XR_030793
454	Ncald	neurocalcin delta	1.48E-05	NM_134094
455	Ssx2ip	synovial sarcoma, X breakpoint 2 interacting protein	1.50E-05	NM_138744
456	Klf9	Kruppel-like factor 9	1.51E-05	NM_010638 /// XM_001479552
457	Papss2	3'-phosphoadenosine 5'-phosphosulfate synthase 2	1.51E-05	NM_011864

458	Tmem183a	transmembrane protein 183A	1.53E-05	NM_001042485 /// NM_020588
459	Fip111	FIP1 like 1 (S. cerevisiae)	1.53E-05	NM_001159573 /// NM_001159574 /// NM_024183
460	Gm2962 /// Uqcrb	predicted gene 2962 /// ubiquinol-cytochrome c reductase binding protein	1.55E-05	NM_026219 /// XM_001475899 /// XM_001480451
461	Wdr45	WD repeat domain 45	1.56E-05	NM_172372
462	Ptp1a	protein tyrosine phosphatase-like (proline instead of catalytic arginine), membe	1.58E-05	NM_001012396 /// NM_013935
463	Fndc1	fibronectin type III domain containing 1	1.60E-05	NM_001081416
464	Mpz12	myelin protein zero-like 2	1.61E-05	NM_007962
465	Prmt2	protein arginine N-methyltransferase 2	1.63E-05	NM_001077638 /// NM_133182
466	Serping1	serine (or cysteine) peptidase inhibitor, clade G, member 1	1.65E-05	NM_009776
467	Serpinh1	serine (or cysteine) peptidase inhibitor, clade H, member 1	1.68E-05	NM_001111043 /// NM_001111044 /// NM_009825
468	Tgfb1	transforming growth factor, beta induced	1.68E-05	NM_009369
469	Map4k4	mitogen-activated protein kinase kinase kinase kinase 4	1.70E-05	NM_008696
470	Ccng2	cyclin G2	1.70E-05	NM_007635
471	Ndufb3	NADH dehydrogenase (ubiquinone) 1 beta subcomplex 3	1.71E-05	NM_025597
472	Lyz1	lysozyme 1	1.74E-05	NM_013590
473	Col14a1	collagen, type XIV, alpha 1	1.74E-05	NM_181277
474	Cklf	chemokine-like factor	1.75E-05	NM_001037841 /// NM_029295
475	Gpr177	G protein-coupled receptor 177	1.77E-05	NM_026582
476	Baz2b	bromodomain adjacent to zinc finger domain, 2B	1.77E-05	NM_001001182
477	Dst	dystonin	1.78E-05	NM_133833 /// NM_134448
478	Hey2	hairly/enhancer-of-split related with YRPW motif 2	1.79E-05	NM_013904
479	Lxn	latexin	1.81E-05	NM_016753
480	Rab32	RAB32, member RAS oncogene family	1.81E-05	NM_026405
481	Gpr137b /// Gpr137b-ps /// LOC100045567 /// Pnp1	G protein-coupled receptor 137B /// G protein-coupled receptor 137B, pseudogene	1.82E-05	NM_031999 /// NR_003568 /// XM_001473441 /// XR_001658
482	LOC100045567 /// Pnp1	similar to purine nucleoside phosphorylase /// purine-nucleoside phosphorylase 1	1.82E-05	NM_013632 /// XM_001474536
483	Hmgn3	high mobility group nucleosomal binding domain 3	1.82E-05	NM_026122 /// NM_175074
484	Inpp5k	inositol polyphosphate 5-phosphatase K	1.83E-05	NM_008916
485	Akr1b3	aldo-keto reductase family 1, member B3 (aldose reductase)	1.84E-05	NM_009658
486	Ak3	adenylate kinase 3	1.85E-05	NM_021299
487	Gm5529 /// Gm5560 /// Gm64	predicted gene 5529 /// predicted gene 5560 /// predicted gene 6425 /// predi	1.85E-05	NM_001081233 /// NM_007451 /// XM_484885 /// XM_887851 /// XM_904056
488	Tcf12	transcription factor 12	1.86E-05	NM_011544
489	Hdc	histidine decarboxylase	1.86E-05	NM_008230
490	Osbp	oxysterol binding protein	1.86E-05	NM_001033174
491	Ephx1	epoxide hydrolase 1, microsomal	1.88E-05	NM_010145
492	Cdc42	cell division cycle 42 homolog (S. cerevisiae)	1.89E-05	NM_009861
493	Slk	STE20-like kinase (yeast)	1.89E-05	NM_009289
494	Fam100a	family with sequence similarity 100, member A	1.90E-05	NM_145359 /// XM_622593 /// XM_974374
495	Procr	protein C receptor, endothelial	1.91E-05	NM_011171
496	Ifi47	interferon gamma inducible protein 47	1.92E-05	NM_008330
497	Ttyh2	tweety homolog 2 (Drosophila)	1.92E-05	NM_053273
498	Gm10191 /// Gm16382 /// Gm1	predicted gene 10191 /// ribosomal protein L31 pseudogene /// predicted gene 768	1.93E-05	NM_053257 /// XM_001473217 /// XM_001478009 /// XM_001478288 /// XM
499	Rab3d	RAB3D, member RAS oncogene family	1.94E-05	NM_031874
500	Aldh1a1	aldehyde dehydrogenase family 1, subfamily A1	1.96E-05	NM_013467
501	Pdkk	pyridoxal (pyridoxine, vitamin B6) kinase	1.97E-05	NM_172134
502	Nrp1	neuropilin 1	1.97E-05	NM_008737
503	Mrps25	mitochondrial ribosomal protein S25	1.98E-05	NM_025578

504	Cd59a	CD59a antigen	1.98E-05	NM_001111060 /// NM_007652
505	Azi2	5-azacytidine induced gene 2	2.02E-05	NM_001048146 /// NM_013727
506	Ptpn9	protein tyrosine phosphatase, non-receptor type 9	2.02E-05	NM_019651
507	Ypel3	yippee-like 3 (Drosophila)	2.06E-05	NM_025347 /// NM_026875
508	Slc7a4	solute carrier family 7 (cationic amino acid transporter, y+ system), member 4	2.06E-05	NM_144852
509	Cxcl5	chemokine (C-X-C motif) ligand 5	2.07E-05	NM_009141
510	Sh3d19	SH3 domain protein D19	2.08E-05	NM_001082414
511	Serpnb6b	serine (or cysteine) peptidase inhibitor, clade B, member 6b	2.10E-05	NM_011454
512	Itm2c	integral membrane protein 2C	2.12E-05	NM_022417
513	Ctsh	cathepsin H	2.13E-05	NM_007801
514	Usp10	ubiquitin specific peptidase 10	2.14E-05	NM_009462
515	Folr2	folate receptor 2 (fetal)	2.15E-05	NM_008035
516	Lcn2	lipocalin 2	2.18E-05	NM_008491
517	Csf1r	colony stimulating factor 1 receptor	2.20E-05	NM_001037859
518	Vegfc	vascular endothelial growth factor C	2.22E-05	NM_009506
519	C2	complement component 2 (within H-2S)	2.23E-05	NM_013484
520	Cds2	CDP-diacylglycerol synthase (phosphatidate cytidyltransferase) 2	2.23E-05	NM_138651
521	Sepp1	selenoprotein P, plasma, 1	2.23E-05	NM_001042613 /// NM_001042614 /// NM_009155
522	C130026I21RIK /// LOC100041	RIKEN cDNA C130026I21 gene /// similar to C130026I21Rik protein	2.25E-05	NM_001037909 /// NM_175219 /// XM_001477693
523	4922501L14RIK	RIKEN cDNA 4922501L14 gene	2.25E-05	NM_175176 /// XM_001481326 /// XR_032207
524	Anxa4	annexin A4	2.30E-05	NM_013471
525	Kdr	kinase insert domain protein receptor	2.34E-05	NM_010612
526	Usp19	ubiquitin specific peptidase 19	2.34E-05	NM_027804
527	Loxl1	lysyl oxidase-like 1	2.35E-05	NM_010729
528	Aldoa /// Aldoart1	aldolase A, fructose-bisphosphate /// aldolase 1, A isoform, retrogene 1	2.39E-05	NM_007438
529	Itsn2	intersectin 2	2.48E-05	NM_011365
530	Bbs2	Bardet-Biedl syndrome 2 (human)	2.53E-05	NM_026116
531	Ywhaq	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta p	2.53E-05	NM_0111739
532	Smarcc1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subf	2.53E-05	NM_009211
533	Slco2a1	solute carrier organic anion transporter family, member 2a1	2.57E-05	NM_033314
534	Ergic3	ERGIC and golgi 3	2.58E-05	NM_025516
535	Igh /// Igh-2 /// Igh-VJ558 ///	immunoglobulin heavy chain complex /// immunoglobulin heavy chain 2 (serum IgA	2.61E-05	---
536	Pvr	poliovirus receptor	2.61E-05	NM_027514
537	Egr1	early growth response 1	2.66E-05	NM_007913
538	Nnmt	nicotinamide N-methyltransferase	2.69E-05	NM_010924
539	Plxnc1	plexin C1	2.69E-05	NM_018797
540	Ttg	Trk-fused gene	2.71E-05	NM_019678
541	2310003F16RIK	RIKEN cDNA 2310003F16 gene	2.75E-05	NM_026318
542	Slc30a4	solute carrier family 30 (zinc transporter), member 4	2.78E-05	NM_011174
543	Utrn	utrophin	2.80E-05	NM_011682
544	Ski	ski sarcoma viral oncogene homolog (avian)	2.80E-05	NM_011385
545	1110032E23RIK	RIKEN cDNA 1110032E23 gene	2.82E-05	NM_133187
546	Ank	progressive ankylosis	2.85E-05	NM_020332
547	Gpatch8	G patch domain containing 8	2.85E-05	NM_001159492 /// XM_152907 /// XM_895150 /// XM_903059 /// XM_903060
548	Inpp1	inositol polyphosphate-1-phosphatase	2.86E-05	NM_008384
549	Flt1	FMS-like tyrosine kinase 1	2.87E-05	NM_010228

550	Smarca5	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subf	2.92E-05	NM_053124
551	Lima1	LIM domain and actin binding 1	2.92E-05	NM_001113545 /// NM_023063
552	Rpl23	ribosomal protein L23	2.93E-05	NM_022891
553	Bcl2l11	BCL2-like 11 (apoptosis facilitator)	2.94E-05	NM_009754 /// NM_207680 /// NM_207681
554	Pnrc2	proline-rich nuclear receptor coactivator 2	2.95E-05	NM_026383
555	Cat	catalase	2.96E-05	NM_009804
556	Hspa4	heat shock protein 4	2.97E-05	NM_008300
557	Alg14	asparagine-linked glycosylation 14 homolog (yeast)	2.99E-05	NM_024178
558	---	---	3.01E-05	---
559	Lamp1	lysosomal-associated membrane protein 1	3.01E-05	NM_010684
560	Ppap2b	phosphatidic acid phosphatase type 2B	3.02E-05	NM_080555
561	Gsn	gelsolin	3.04E-05	NM_146120
562	Agl	amylase-1,6-glycosidase, 4-alpha-glucanotransferase	3.05E-05	NM_001081326
563	Cbx3	chromobox homolog 3 (Drosophila HP1 gamma)	3.10E-05	NM_007624
564	Fez2	fasciculation and elongation protein zeta 2 (zygin II)	3.10E-05	NM_199448
565	Inadl	InaD-like (Drosophila)	3.12E-05	NM_001005784 /// NM_001005787 /// NM_007704 /// NM_172696
566	Gadd45b	Growth arrest and DNA-damage-inducible 45 beta	3.17E-05	NM_008655
567	Cldn7	claudin 7	3.17E-05	NM_016887
568	Sh3bgr1	SH3-binding domain glutamic acid-rich protein like	3.18E-05	NM_019989
569	Clec4d	C-type lectin domain family 4, member d	3.19E-05	NM_001163161 /// NM_010819
570	Ndrp1	N-myc downstream regulated gene 1	3.23E-05	NM_008681
571	Car3	carbonic anhydrase 3	3.23E-05	NM_007606
572	Ick	intestinal cell kinase	3.25E-05	NM_001163780 /// NM_019987
573	Abcf3	ATP-binding cassette, sub-family F (GCN20), member 3	3.26E-05	NM_013852
574	Ptpro	protein tyrosine phosphatase, receptor type, O	3.28E-05	NM_001164401 /// NM_001164402 /// NM_001164403 /// NM_011216
575	Fdx1	ferredoxin 1	3.29E-05	NM_007996
576	Otrt1	queuine tRNA-ribosyltransferase 1	3.32E-05	NM_021888
577	Eps8	epidermal growth factor receptor pathway substrate 8	3.32E-05	NM_007945
578	Daglb	diacylglycerol lipase, beta	3.39E-05	NM_144915
579	Fam20c	family with sequence similarity 20, member C	3.43E-05	NM_030565
580	Evi5	ecotropic viral integration site 5	3.43E-05	NM_007964
581	Ndufa3	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 3	3.46E-05	NM_025348
582	Lipg	lipase, endothelial	3.47E-05	NM_010720
583	Ppib	peptidylprolyl isomerase B	3.49E-05	NM_011149
584	Reep3	receptor accessory protein 3	3.51E-05	NM_178606
585	Kdm2b	lysine (K)-specific demethylase 2B	3.51E-05	NM_001003953 /// NM_001005866 /// NM_013910
586	Dusp12	Dual specificity phosphatase 12	3.52E-05	NM_023173
587	LOC100047840 /// Stap1	similar to stem cell adaptor protein STAP-1 /// signal transducing adaptor famil	3.55E-05	NM_019992 /// XM_001479407 /// XM_001479415
588	Dpp8	dipeptidylpeptidase 8	3.59E-05	NM_028906
589	Tmem106b	transmembrane protein 106B	3.61E-05	NM_027992
590	Uxs1	UDP-glucuronate decarboxylase 1	3.63E-05	NM_026430
591	Abhd14a	abhydrolase domain containing 14A	3.63E-05	NM_001110271 /// NM_001110272 /// NM_145919
592	Rgs2	regulator of G-protein signaling 2	3.64E-05	NM_009061
593	Cdh10	cadherin 10	3.68E-05	NM_009865
594	Tmem45a	transmembrane protein 45a	3.69E-05	NM_019631
595	Gpr19	G protein-coupled receptor 19	3.72E-05	NM_008157

596	Traf4	TNF receptor associated factor 4	3.73E-05	NM_009423
597	Seh1l	SEH1-like (S. cerevisiae)	3.78E-05	NM_001039088 /// NM_028112
598	Dclk1	doublecortin-like kinase 1	3.81E-05	NM_001111051 /// NM_001111052 /// NM_001111053 /// NM_019978
599	Tjp1	tight junction protein 1	3.81E-05	NM_001163574 /// NM_009386
600	Hfe	hemochromatosis	3.83E-05	NM_010424
601	Rspo1	R-spondin homolog (Xenopus laevis)	3.83E-05	NM_138683
602	Lipa	lysosomal acid lipase A	3.92E-05	NM_001111100 /// NM_021460
603	Egr2	early growth response 2	4.02E-05	NM_010118
604	Itgav	integrin alpha V	4.04E-05	NM_008402
605	Ip6k1	inositol hexaphosphate kinase 1	4.05E-05	NM_013785
606	Jund	Jun proto-oncogene related gene d	4.07E-05	NM_010592
607	Igfbp3	insulin-like growth factor binding protein 3	4.12E-05	NM_008343
608	Adam8	alpha disintegrin and metallopeptidase domain 8	4.15E-05	NM_007403
609	Tnfrsf13c	tumor necrosis factor receptor superfamily, member 13c	4.15E-05	NM_028075
610	Igf2r	insulin-like growth factor 2 receptor	4.20E-05	NM_010515
611	Bcl2a1a /// Bcl2a1b /// Bcl2a1c	B-cell leukemia/lymphoma 2 related protein A1a /// B-cell leukemia/lymphoma 2 related protein A1b /// B-cell leukemia/lymphoma 2 related protein A1c	4.25E-05	NM_007534 /// NM_007536 /// NM_009742
612	Ndufa3	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 3	4.27E-05	NM_025348
613	Cacna1g	calcium channel, voltage-dependent, T type, alpha 1G subunit	4.27E-05	NM_001112813 /// NM_009783
614	Vprbp	Vpr (HIV-1) binding protein	4.29E-05	NM_001015507
615	Plk3cg	phosphoinositide-3-kinase, catalytic, gamma polypeptide	4.32E-05	NM_001146200 /// NM_001146201 /// NM_020272
616	Frdm4b	FERM domain containing 4B	4.34E-05	NM_145148
617	Pnkd	paroxysmal nonkinesinogenic dyskinesia	4.35E-05	NM_001039509 /// NM_019999 /// NM_025580
618	Ccpg1	cell cycle progression 1	4.35E-05	NM_001114328 /// NM_028181
619	Csn3	casein kappa	4.42E-05	NM_007786
620	Epm2aip1	EPM2A (laforin) interacting protein 1	4.44E-05	NM_175266
621	Scel	sciellin	4.49E-05	NM_022886
622	Ssb	Sjogren syndrome antigen B	4.53E-05	NM_001110145 /// NM_009278
623	Csrp2	cysteine and glycine-rich protein 2	4.59E-05	NM_007792
624	Zeb2	zinc finger E-box binding homeobox 2	4.60E-05	NM_015753
625	Dap	death-associated protein	4.64E-05	NM_146057
626	Snx5	sorting nexin 5	4.65E-05	NM_024225
627	Clec4a2	C-type lectin domain family 4, member a2	4.66E-05	NM_011999
628	Sirpa	signal-regulatory protein alpha	4.67E-05	NM_007547
629	Npl	N-acetylneuraminidase	4.69E-05	NM_028749
630	Aldoa	aldolase A, fructose-bisphosphate	4.71E-05	NM_007438
631	Egr2	early growth response 2	4.73E-05	NM_010118
632	Fads3	fatty acid desaturase 3	4.74E-05	NM_021890
633	Rnf7	ring finger protein 7	4.76E-05	NM_011279
634	Map2k7	mitogen-activated protein kinase kinase 7	4.77E-05	NM_001042557 /// NM_001164172 /// NM_011944
635	Spry2	sprouty homolog 2 (Drosophila)	4.78E-05	NM_011897
636	Endod1	endonuclease domain containing 1	4.79E-05	NM_028013
637	Nupl1	nucleoporin like 1	4.88E-05	NM_170591
638	Arhgap6	Rho GTPase activating protein 6	4.93E-05	NM_009707 /// NM_178754
639	Fam129b	family with sequence similarity 129, member B	4.94E-05	NM_146119
640	Atplf1	ATPase inhibitory factor 1	4.96E-05	NM_007512
641	Irf2bp1	interferon regulatory factor 2 binding protein 1	4.97E-05	NM_178757

642	Spon2	spondin 2, extracellular matrix protein	4.99E-05	NM_133903
643	Eps8 /// LOC632638	epidermal growth factor receptor pathway substrate 8 /// similar to Epidermal gr	5.03E-05	NM_007945 /// XR_031552
644	Tnfaip2	tumor necrosis factor, alpha-induced protein 2	5.06E-05	NM_009396
645	Kctd20	potassium channel tetramerisation domain containing 20	5.07E-05	NM_025888
646	Pcbp4	poly(rC) binding protein 4	5.08E-05	NM_021567
647	Pvrl4	poliovirus receptor-related 4	5.10E-05	NM_001122680 /// NM_027893
648	---	---	5.14E-05	---
649	Rgs3	regulator of G-protein signaling 3	5.17E-05	NM_001081650 /// NM_019492 /// NM_134257
650	Figf	c-fos induced growth factor	5.26E-05	NM_010216
651	Bhlhe41	basic helix-loop-helix family, member e41	5.28E-05	NM_024469
652	Pigp	phosphatidylinositol glycan anchor biosynthesis, class P	5.29E-05	NM_001159616 /// NM_001159617 /// NM_001159618 /// NM_001159619 ///
653	---	---	5.33E-05	---
654	Tsc22d1	TSC22 domain family, member 1	5.36E-05	NM_009366 /// NM_207652
655	Rhbf1	rhomboid family 1 (Drosophila)	5.36E-05	NM_010117
656	Gm4204 /// Nap11	predicted gene 4204 /// nucleosome assembly protein 1-like 1	5.42E-05	NM_001146707 /// NM_015781 /// XR_034434
657	Wbscr27	Williams Beuren syndrome chromosome region 27 (human)	5.42E-05	NM_024479
658	Palld	palladin, cytoskeletal associated protein	5.44E-05	NM_001081390
659	Bcl3	B-cell leukemia/lymphoma 3	5.44E-05	NM_033601
660	Tacc2	transforming, acidic coiled-coil containing protein 2	5.46E-05	NM_001004468 /// NM_021314 /// NM_206856
661	Ints7	integrator complex subunit 7	5.47E-05	NM_178632
662	Pdzrn3	PDZ domain containing RING finger 3	5.47E-05	NM_018884
663	Igfbp6	insulin-like growth factor binding protein 6	5.49E-05	NM_008344
664	Lasp1	LIM and SH3 protein 1	5.53E-05	NM_010688
665	Pou6f1	POU domain, class 6, transcription factor 1	5.56E-05	NM_010127
666	Ccl12	chemokine (C-C motif) ligand 12	5.59E-05	NM_011331
667	Dyrk1a	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1a	5.59E-05	NM_001113389 /// NM_007890
668	Sms	spermine synthase	5.62E-05	NM_009214
669	Igfbp4	insulin-like growth factor binding protein 4	5.62E-05	NM_010517
670	S100a4	S100 calcium binding protein A4	5.63E-05	NM_011311
671	Uhrf1bp1l	UHRF1 (ICBP90) binding protein 1-like	5.65E-05	NM_029166
672	Dclre1b	DNA cross-link repair 1B, PSO2 homolog (S. cerevisiae)	5.71E-05	NM_001025312 /// NM_133865
673	Pip4k2a	phosphatidylinositol-5-phosphate 4-kinase, type II, alpha	5.72E-05	NM_008845
674	Dnaja1	DnaJ (Hsp40) homolog, subfamily A, member 1	5.73E-05	NM_008298
675	Rbm43	RNA binding motif protein 43	5.76E-05	NM_001141981 /// NM_001141982 /// NM_030243
676	Rap2b	RAP2B, member of RAS oncogene family	5.80E-05	NM_028712
677	Adss1	adenylosuccinate synthetase like 1	5.80E-05	NM_007421
678	Mapre2	microtubule-associated protein, RP/EB family, member 2	5.84E-05	NM_001162941 /// NM_001162942 /// NM_153058
679	Litaf	LPS-induced TN factor	5.84E-05	NM_019980
680	Cd46	CD46 antigen, complement regulatory protein	5.88E-05	NM_010778
681	Timp2	tissue inhibitor of metalloproteinase 2	5.88E-05	NM_011594
682	Aebp1	AE binding protein 1	5.96E-05	NM_009636
683	Plbd2	phospholipase B domain containing 2	5.96E-05	NM_023625
684	Bbc3	BCL2 binding component 3	5.98E-05	NM_133234
685	Vcl	vinculin	5.99E-05	NM_009502
686	Gas1	growth arrest specific 1	6.01E-05	NM_008086
687	Epha8	Eph receptor A8	6.11E-05	NM_007939

688	Ok	quaking	6.13E-05	NM_001159516 /// NM_001159517 /// NM_021881
689	Ttc17	tetratricopeptide repeat domain 17	6.13E-05	NM_183106
690	Serpinh1	serine (or cysteine) peptidase inhibitor, clade H, member 1	6.14E-05	NM_001111043 /// NM_001111044 /// NM_009825
691	Il1r1	interleukin 1 receptor, type I	6.19E-05	NM_001123382 /// NM_008362
692	Arl4c /// LOC632433	ADP-ribosylation factor-like 4C /// similar to ADP-ribosylation factor-like prot	6.26E-05	NM_177305 /// XM_906533
693	Impa2	inositol (myo)-1(or 4)-monophosphatase 2	6.30E-05	NM_053261
694	Adcy7	adenylate cyclase 7	6.33E-05	NM_001037723 /// NM_001037724 /// NM_001109756 /// NM_007406
695	Sema4d	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short	6.34E-05	NM_013660
696	Snrpe	small nuclear ribonucleoprotein E	6.37E-05	NM_009227
697	Dnase1l1	deoxyribonuclease 1-like 1	6.47E-05	NM_027109
698	Cbr1	carbonyl reductase 1	6.49E-05	NM_007620
699	Taf13	TAF13 RNA polymerase II, TATA box binding protein (TBP)-associated factor	6.56E-05	NM_025444
700	Chi3l1	chitinase 3-like 1	6.57E-05	NM_007695
701	Fam3c	family with sequence similarity 3, member C	6.59E-05	NM_138587
702	Atf2	activating transcription factor 2	6.60E-05	NM_001025093 /// NM_009715
703	Abcc5	ATP-binding cassette, sub-family C (CFTR/MRP), member 5	6.62E-05	NM_013790 /// NM_176839
704	Ifitm3	interferon induced transmembrane protein 3	6.67E-05	NM_025378
705	Gm11285 /// Gm14173 /// Gm	predicted gene 11285 /// predicted gene 14173 /// predicted gene 14251 /// predi	6.69E-05	NM_009084 /// XM_001004924 /// XM_001474747 /// XM_001475113 /// XM
706	Cfd	complement factor D (adipsin)	6.70E-05	NM_013459
707	Stard8	START domain containing 8	6.71E-05	NM_199018
708	Prdx1	peroxiredoxin 1	6.73E-05	NM_011034
709	Cdc73	cell division cycle 73, Paf1/RNA polymerase II complex component, homolog (S. ce	6.73E-05	NM_145991
710	Prrx1	paired related homeobox 1	6.80E-05	NM_001025570 /// NM_011127 /// NM_175686
711	Clec14a	C-type lectin domain family 14, member a	6.83E-05	NM_025809
712	Mxi1	Max interacting protein 1	6.85E-05	NM_001008542 /// NM_001008543 /// NM_010847
713	Cdh1	cadherin 1	6.86E-05	NM_009864
714	Pla2g4a	phospholipase A2, group IVA (cytosolic, calcium-dependent)	6.96E-05	NM_008869
715	Lrrc48	leucine rich repeat containing 48	7.00E-05	NM_029044
716	Hist1h3a /// Hist1h3b /// Hist1	histone cluster 1, H3a /// histone cluster 1, H3b /// histone cluster 1, H3c ///	7.00E-05	NM_013548 /// NM_013550 /// NM_019469 /// NM_054045 /// NM_145073 //
717	Wnt10a	wingless related MMTV integration site 10a	7.06E-05	NM_009518
718	Lrrflp1	leucine rich repeat (in FLII) interacting protein 1	7.09E-05	NM_001111311 /// NM_001111312 /// NM_008515
719	LOC676870 /// Pbx1	region containing RIKEN cDNA 2310056B04 gene; pre B-cell leukemia transcription	7.10E-05	NM_008783 /// NM_183355 /// XM_001003209
720	Enpep	glutamyl aminopeptidase	7.12E-05	NM_007934
721	Btg1 /// LOC100047353	B-cell translocation gene 1, anti-proliferative /// similar to myocardial vascul	7.14E-05	NM_007569 /// XM_001477963
722	Ctsw	cathepsin W	7.17E-05	NM_009985
723	Slc15a2	solute carrier family 15 (H+/peptide transporter), member 2	7.22E-05	NM_001145899 /// NM_021301
724	Wdr6	WD repeat domain 6	7.23E-05	NM_031392
725	Rbbp7	retinoblastoma binding protein 7	7.24E-05	NM_009031
726	Dab2	disabled homolog 2 (Drosophila)	7.32E-05	NM_001008702 /// NM_001037905 /// NM_001102400 /// NM_023118
727	Ptpre	protein tyrosine phosphatase, receptor type, E	7.46E-05	NM_011212
728	Ugt1a1 /// Ugt1a10 /// Ugt1a2	UDP glucuronosyltransferase 1 family, polypeptide A1 /// UDP glycosyltransferase	7.55E-05	NM_013701 /// NM_145079 /// NM_201410 /// NM_201641 /// NM_201642 //
729	Plod2	procollagen lysine, 2-oxoglutarate 5-dioxygenase 2	7.59E-05	NM_001142916 /// NM_011961
730	Btg1 /// LOC100047353	B-cell translocation gene 1, anti-proliferative /// similar to myocardial vascul	7.61E-05	NM_007569 /// XM_001477963
731	Rnpepl1	arginyl aminopeptidase (aminopeptidase B)-like 1	7.62E-05	NM_181405
732	Podxl	podocalyxin-like	7.63E-05	NM_013723
733	LOC100047222 /// LOC676193	similar to anti-glycoprotein-B of human Cytomegalovirus Immunoglobulin VI chain	7.64E-05	XM_001477680 /// XM_988029

734	Ncam1	neural cell adhesion molecule 1	7.72E-05	NM_001081445 /// NM_001113204 /// NM_010875
735	Slc1a4	solute carrier family 1 (glutamate/neutral amino acid transporter), member 4	7.74E-05	NM_018861
736	Id2	inhibitor of DNA binding 2	7.75E-05	NM_010496
737	Ica1	islet cell autoantigen 1	7.77E-05	NM_010492
738	Lipa	lysosomal acid lipase A	7.79E-05	NM_001111100 /// NM_021460
739	Ebf1	early B-cell factor 1	7.85E-05	NM_007897
740	Cmtm3 /// LOC100046883	CKLF-like MARVEL transmembrane domain containing 3 /// similar to CKLF-like MAR	7.89E-05	NM_024217 /// XM_001476984
741	Trib1	tribbles homolog 1 (Drosophila)	7.89E-05	NM_144549
742	Hal	histidine ammonia lyase	7.90E-05	NM_010401
743	Dhrs3	dehydrogenase/reductase (SDR family) member 3	7.93E-05	NM_011303
744	Bmi1	Bmi1 polycomb ring finger oncogene	8.02E-05	NM_007552
745	Mcart1	mitochondrial carrier triple repeat 1	8.02E-05	NM_001009949
746	Adipor1	adiponectin receptor 1	8.08E-05	NM_028320
747	Grina	glutamate receptor, ionotropic, N-methyl D-aspartate-associated protein 1 (gluta	8.10E-05	NM_023168
748	Cbx8	chromobox homolog 8 (Drosophila Pc class)	8.15E-05	NM_013926
749	Col6a2	collagen, type VI, alpha 2	8.16E-05	NM_146007
750	Cd59a	CD59a antigen	8.19E-05	NM_001111060 /// NM_007652
751	Bst1	bone marrow stromal cell antigen 1	8.20E-05	NM_009763
752	Nckap1	NCK-associated protein 1	8.28E-05	NM_016965
753	Fermt2	fermitin family homolog 2 (Drosophila)	8.31E-05	NM_146054
754	Os9	amplified in osteosarcoma	8.37E-05	NM_177614
755	Fil1	Friend leukemia integration 1	8.38E-05	NM_008026
756	Csf2ra	colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte-macrophag	8.40E-05	NM_009970
757	Dnajc28	DnaJ (Hsp40) homolog, subfamily C, member 28	8.48E-05	NM_001099738 /// NM_138664
758	Ccdc80	coiled-coil domain containing 80	8.50E-05	NM_026439
759	Mapk8	mitogen-activated protein kinase 8	8.51E-05	NM_016700
760	Serpnb9g	serine (or cysteine) peptidase inhibitor, clade B, member 9g	8.59E-05	NM_011455
761	Rpn1	ribophorin 1	8.65E-05	NM_133933
762	Ppt2	palmitoyl-protein thioesterase 2	8.66E-05	NM_019441
763	Gm6440 /// LOC675813 /// Rp	predicted gene 6440 /// similar to 40S ribosomal protein S20 /// ribosomal prote	8.68E-05	NM_026147 /// XM_001475978 /// XM_001480472 /// XR_032773
764	Tnfaip8	tumor necrosis factor, alpha-induced protein 8	8.75E-05	NM_134131
765	Ms4a6c	membrane-spanning 4-domains, subfamily A, member 6C	8.91E-05	NM_028595
766	Cotl1	coactosin-like 1 (Dictyostelium)	8.94E-05	NM_028071
767	Fdft1	farnesyl diphosphate farnesyl transferase 1	8.99E-05	NM_010191
768	Epb4.112	erythrocyte protein band 4.1-like 2	9.04E-05	NM_013511
769	Myof	myoferlin	9.11E-05	NM_001099634 /// XM_001480162 /// XM_001480167 /// XM_283556
770	Itm2b	integral membrane protein 2B	9.14E-05	NM_008410
771	Ms4a6b	membrane-spanning 4-domains, subfamily A, member 6B	9.15E-05	NM_027209
772	Itpr1	inositol 1,4,5-triphosphate receptor 1	9.19E-05	NM_010585
773	Agfg2	ArfGAP with FG repeats 2	9.21E-05	NM_145566 /// NM_178162
774	Timp2	tissue inhibitor of metalloproteinase 2	9.23E-05	NM_011594
775	Pla2g15	phospholipase A2, group XV	9.23E-05	NM_133792
776	Rhou	ras homolog gene family, member U	9.27E-05	NM_133955
777	1700017B05Rik	RIKEN cDNA 1700017B05 gene	9.27E-05	NM_028820
778	Nagk	N-acetylglucosamine kinase	9.27E-05	NM_001164187 /// NM_019542
779	Ndufa5	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5	9.32E-05	NM_026614

780	Rhoc	ras homolog gene family, member C	9.51E-05	NM_007484
781	Tgm2	transglutaminase 2, C polypeptide	9.59E-05	NM_009373
782	1700102P08Rik	RIKEN cDNA 1700102P08 gene	9.60E-05	NM_053216
783	4931440B09Rik	RIKEN cDNA 4931440B09 gene	9.64E-05	NM_027644
784	Slc1a4	solute carrier family 1 (glutamate/neutral amino acid transporter), member 4	9.64E-05	NM_018861
785	Tbc1d14	TBC1 domain family, member 14	9.66E-05	NM_001113362 /// NM_001113364 /// NM_133910 /// XM_001475805
786	Klf6	Kruppel-like factor 6	9.80E-05	NM_011803
787	Hsbp1	heat shock factor binding protein 1	9.83E-05	NM_024219
788	Mpdz	multiple PDZ domain protein	9.83E-05	NM_010820
789	Fdft1	farnesyl diphosphate farnesyl transferase 1	9.84E-05	NM_010191
790	Efcab2	EF-hand calcium binding domain 2	9.87E-05	NM_026626
791	Tpm2	tropomyosin 2, beta	9.88E-05	NM_009416
792	Cfh /// LOC100048018	complement component factor h /// similar to complement component factor H	9.89E-05	NM_009888 /// XM_001479650
793	Serf2	small EDRK-rich factor 2	9.90E-05	NM_011354
794	Fiz1	Flt3 interacting zinc finger protein 1	9.91E-05	NM_001110328 /// NM_001110329 /// NM_001110330 /// NM_011813
795	Atf7ip	activating transcription factor 7 interacting protein	9.93E-05	NM_019426
796	Rpn1	ribophorin I	9.94E-05	NM_133933
797	LOC100045833 /// Ly6c1 /// Ly	similar to Lymphocyte antigen 6C precursor (Ly-6C) /// lymphocyte antigen 6 comp	9.95E-05	NM_001099217 /// NM_010741 /// XM_001475001 /// XM_001477071 /// XM
798	Zfp361l	zinc finger protein 36, C3H type-like 1	9.98E-05	NM_007564
799	Naaa	N-acyl ethanolamine acid amidase	9.99E-05	NM_001163687 /// NM_025972
800	Reln	reelin	1.00E-04	NM_011261
801	Ctla2b	cytotoxic T lymphocyte-associated protein 2 beta	1.01E-04	NM_001145801 /// NM_007797 /// XM_001477566
802	D0H4S114	DNA segment, human D4S114	1.02E-04	NM_001109988 /// NM_001109989 /// NM_001109990 /// NM_053078
803	Litaf	LPS-induced TN factor	1.02E-04	NM_019980
804	Tgm2	transglutaminase 2, C polypeptide	1.02E-04	NM_009373
805	Rnf114	ring finger protein 114	1.02E-04	NM_030743
806	Cttna1	catenin (cadherin associated protein), alpha 1	1.04E-04	NM_009818
807	Fmn2 /// LOC100044570	formin 2 /// similar to formin-2	1.04E-04	NM_019445 /// XR_030793
808	Cd14	CD14 antigen	1.05E-04	NM_009841
809	D16Ert472e	DNA segment, Chr 16, ERATO Doi 472, expressed	1.05E-04	NM_025967 /// XM_001473183
810	Ncor2	nuclear receptor co-repressor 2	1.05E-04	NM_011424
811	Igh /// Igh-2 /// Igh-VJ558 ///	immunoglobulin heavy chain complex /// immunoglobulin heavy chain 2 (serum IgA	1.06E-04	---
812	Nid1	nidogen 1	1.07E-04	NM_010917
813	Grb10	growth factor receptor bound protein 10	1.07E-04	NM_010345
814	Them4	thioesterase superfamily member 4	1.08E-04	NM_029431
815	Pdha1	pyruvate dehydrogenase E1 alpha 1	1.08E-04	NM_008810
816	Fscn1	fascin homolog 1, actin bundling protein (Strongylocentrotus purpuratus)	1.08E-04	NM_007984
817	Smpdl3a	sphingomyelin phosphodiesterase, acid-like 3A	1.08E-04	NM_020561
818	Dap	death-associated protein	1.09E-04	NM_146057
819	Nov	nephroblastoma overexpressed gene	1.10E-04	NM_010930
820	Myb	myeloblastosis oncogene	1.10E-04	NM_010848
821	Dnpep	aspartyl aminopeptidase	1.11E-04	NM_001110831 /// NM_016878
822	Col15a1	collagen, type XV, alpha 1	1.11E-04	NM_009928
823	1810044D09Rik	RIKEN cDNA 1810044D09 gene	1.12E-04	---
824	Tmem186	transmembrane protein 186	1.13E-04	NM_025708
825	BC046331	cDNA sequence BC046331	1.13E-04	NM_177673

826	Arpp21	cyclic AMP-regulated phosphoprotein, 21	1.13E-04	NM_028755 /// NM_033264
827	Syp1	synaptophysin-like protein	1.14E-04	NM_013635 /// NM_198710
828	Usp7	ubiquitin specific peptidase 7	1.16E-04	NM_001003918
829	Pfkfb3	phosphofructokinase, muscle	1.17E-04	NM_001163487 /// NM_001163488 /// NM_021514
830	Rhoj	ras homolog gene family, member J	1.18E-04	NM_023275
831	Elf4e	eukaryotic translation initiation factor 4E	1.18E-04	NM_007917 /// XM_001004193
832	Plek	pleckstrin	1.19E-04	NM_019549
833	Hexa	hexosaminidase A	1.19E-04	NM_010421
834	Hnrnp2	heterogeneous nuclear ribonucleoprotein H2	1.19E-04	NM_019868
835	---	---	1.19E-04	---
836	Acbd6	acyl-Coenzyme A binding domain containing 6	1.19E-04	NM_001145781 /// NM_026683 /// NM_028250
837	1190002H23Rik	RIKEN cDNA 1190002H23 gene	1.19E-04	NM_025427
838	Pon3	paraoxonase 3	1.19E-04	NM_173006
839	Hist1h2ad /// Hist1h2an /// Hist1h2af	histone cluster 1, H2ad /// histone cluster 1, H2an /// histone cluster 2, H2aa1	1.20E-04	NM_013549 /// NM_019469 /// NM_175662 /// NM_178184 /// NM_178188 /// NM_178189
840	Runx2	runt related transcription factor 2	1.20E-04	NM_001145920 /// NM_001146038 /// NM_009820
841	Fbln1	fibulin 1	1.20E-04	NM_010180
842	Wwc2	WW, C2 and coiled-coil domain containing 2	1.20E-04	NM_133791
843	Dgcr14	DiGeorge syndrome critical region gene 14	1.21E-04	NM_001081633 /// NM_022408
844	Rtn3	reticulon 3	1.22E-04	NM_001003930 /// NM_001003933 /// NM_001003934 /// NM_053076
845	Dolk	dolichol kinase	1.22E-04	NM_177648
846	Mmp23	matrix metalloproteinase 23	1.22E-04	NM_011985
847	Agbl3	ATP/GTP binding protein-like 3	1.23E-04	NM_178630
848	Cox5b	cytochrome c oxidase, subunit Vb	1.23E-04	NM_009942
849	Klra3 /// Klra9	killer cell lectin-like receptor, subfamily A, member 3 /// killer cell lectin-I	1.23E-04	NM_010648 /// NM_010651
850	Gm11793 /// Hnrnpf	predicted gene 11793 /// heterogeneous nuclear ribonucleoprotein F	1.23E-04	NM_133834 /// XR_002079 /// XR_034451
851	Tom7	translocase of outer mitochondrial membrane 7 homolog (yeast)	1.24E-04	NM_025394
852	Pgam1	phosphoglycerate mutase 1	1.24E-04	NM_023418
853	Nhp211	NHP2 non-histone chromosome protein 2-like 1 (S. cerevisiae)	1.25E-04	NM_011482
854	H1f0	H1 histone family, member 0	1.25E-04	NM_008197
855	Dhx57	DEAH (Asp-Glu-Ala-Asp/His) box polypeptide 57	1.28E-04	NM_001163759 /// NM_198942
856	Sp110	Sp110 nuclear body protein	1.28E-04	NM_175397
857	Gbf1	golgi-specific brefeldin A-resistance factor 1	1.28E-04	NM_178930
858	Fgf1	fibroblast growth factor 1	1.29E-04	NM_010197
859	Tmem39a	transmembrane protein 39a	1.30E-04	NM_026407
860	Sys1	SYS1 Golgi-localized integral membrane protein homolog (S. cerevisiae)	1.30E-04	NM_025575
861	E330009J07Rik	RIKEN cDNA E330009J07 gene	1.30E-04	NM_175528
862	Cdc42ep3	CDC42 effector protein (Rho GTPase binding) 3	1.30E-04	NM_026514
863	Nfix	nuclear factor I/X	1.31E-04	NM_001081981 /// NM_001081982 /// NM_010906
864	Zfp503	zinc finger protein 503	1.31E-04	NM_145459
865	Als2	amyotrophic lateral sclerosis 2 (juvenile) homolog (human)	1.31E-04	NM_001159948 /// NM_028717 /// NM_146109
866	Trim31	tripartite motif-containing 31	1.31E-04	NM_146077
867	Rpl14	ribosomal protein L14	1.32E-04	NM_025974
868	---	---	1.32E-04	---
869	Rag1ap1	recombination activating gene 1 activating protein 1	1.32E-04	NM_009057
870	LOC100045163 /// Plbd1	similar to RIKEN cDNA 1100001H23 gene /// phospholipase B domain containing 1	1.34E-04	NM_025806 /// XM_001473518
871	P2ry14	purinergic receptor P2Y, G-protein coupled, 14	1.34E-04	NM_001008497 /// NM_133200

872	Smpd1	sphingomyelin phosphodiesterase 1, acid lysosomal	1.34E-04	NM_011421
873	Kik1 /// Kik1b5	kallikrein 1 /// kallikrein 1-related peptidase b5	1.34E-04	NM_008456 /// NM_010639
874	Arsg	arylsulfatase G	1.34E-04	NM_028710
875	OTTMUSG00000010657	predicted gene, OTTMUSG00000010657	1.34E-04	NM_001083918
876	Yipf3	Yip1 domain family, member 3	1.35E-04	NM_145353
877	Apbb2	amyloid beta (A4) precursor protein-binding, family B, member 2	1.35E-04	NM_009686
878	Prkcb	protein kinase C, beta	1.35E-04	NM_008855
879	Hbp1	high mobility group box transcription factor 1	1.35E-04	NM_153198 /// NM_177993
880	Nucb1	nucleobindin 1	1.35E-04	NM_001163662 /// NM_008749
881	Cd276	CD276 antigen	1.36E-04	NM_133983
882	Tmem106a	transmembrane protein 106A	1.36E-04	NM_144830
883	Mbp	myelin basic protein	1.36E-04	NM_001025245 /// NM_001025251 /// NM_001025254 /// NM_001025255 ///
884	Ssbp1	single-stranded DNA binding protein 1	1.36E-04	NM_028358 /// NM_212468
885	Shfm1	split hand/foot malformation (ectrodactyly) type 1	1.37E-04	NM_009169
886	Snhg6	small nucleolar RNA host gene (non-protein coding) 6	1.37E-04	NR_024067
887	Igfbp4	insulin-like growth factor binding protein 4	1.37E-04	NM_010517
888	Prr15	proline rich 15	1.37E-04	NM_030024
889	Vit	vitrin	1.37E-04	NM_028813
890	Acot1 /// LOC100044830	acyl-CoA thioesterase 1 /// similar to acyl-CoA thioesterase	1.38E-04	NM_012006 /// XR_031056
891	Mtmr6	myotubularin related protein 6	1.38E-04	NM_144843
892	Gpm6b	glycoprotein m6b	1.38E-04	NM_023122
893	C1r /// C1rb	complement component 1, r subcomponent /// complement component 1, r subcom	1.38E-04	NM_001113356 /// NM_023143 /// XM_001002804 /// XM_001480171
894	Tm7sf3	transmembrane 7 superfamily member 3	1.40E-04	NM_026281 /// XM_001475674
895	Ctsl	cathepsin L	1.40E-04	NM_009984
896	Cyp7b1	cytochrome P450, family 7, subfamily b, polypeptide 1	1.40E-04	NM_007825
897	Metrnl	meteorin, glial cell differentiation regulator-like	1.40E-04	NM_144797
898	Wsb2	WD repeat and SOCS box-containing 2	1.40E-04	NM_021539
899	Ptfr	polymerase I and transcript release factor	1.40E-04	NM_008986
900	RabggtA	Rab geranylgeranyl transferase, a subunit	1.41E-04	NM_019519
901	---	---	1.42E-04	---
902	Igh /// Ighg	immunoglobulin heavy chain complex /// Immunoglobulin heavy chain (gamma poly	1.43E-04	XM_001472541
903	Crygs	crystallin, gamma S	1.45E-04	NM_009967
904	Ndufa5	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5	1.46E-04	NM_026614
905	Gng12	guanine nucleotide binding protein (G protein), gamma 12	1.46E-04	NM_025278
906	LOC100047839 /// Tomm6	hypothetical protein LOC100047839 /// translocase of outer mitochondrial membran	1.46E-04	NM_025365 /// XM_001479252
907	Gm9844 /// LOC100048142 ///	predicted gene 9844 /// similar to thymosin, beta 10 /// thymosin, beta 10	1.46E-04	NM_001039392 /// NM_025284 /// XM_001478515 /// XM_001479830 /// XM
908	Cd151	CD151 antigen	1.47E-04	NM_001111049 /// NM_001111050 /// NM_009842
909	Itgax	integrin alpha X	1.48E-04	NM_021334
910	Rpl13 /// Tax1bp3	ribosomal protein L13 /// Tax1 (human T-cell leukemia virus type I) binding prot	1.49E-04	NM_016738 /// NM_029564
911	Dapk1	death associated protein kinase 1	1.49E-04	NM_029653 /// NM_134062
912	Tcf12	transcription factor 12	1.49E-04	NM_011544
913	Ermap	erythroblast membrane-associated protein	1.49E-04	NM_013848
914	Chst12	carbohydrate sulfotransferase 12	1.49E-04	NM_021528
915	Cd36	CD36 antigen	1.50E-04	NM_001159555 /// NM_001159556 /// NM_001159557 /// NM_001159558 ///
916	Clec4n	C-type lectin domain family 4, member n	1.50E-04	NM_020001
917	Flt1	FMS-like tyrosine kinase 1	1.51E-04	NM_010228

918	Angptl4	angiopoietin-like 4	1.51E-04	NM_020581
919	Elf2ak3	eukaryotic translation initiation factor 2 alpha kinase 3	1.51E-04	NM_010121
920	Emp2	epithelial membrane protein 2	1.52E-04	NM_007929
921	Slc2a9	solute carrier family 2 (facilitated glucose transporter), member 9	1.52E-04	NM_001012363 /// NM_001102414 /// NM_001102415 /// NM_145559
922	Enoph1	enolase-phosphatase 1	1.53E-04	NM_001163035 /// NM_026421 /// NR_027990
923	Gstm5	glutathione S-transferase, mu 5	1.53E-04	NM_010360
924	Selp	selectin, platelet	1.53E-04	NM_011347
925	Rnf7	ring finger protein 7	1.53E-04	NM_011279
926	Lasp1	LIM and SH3 protein 1	1.54E-04	NM_010688
927	Fech	ferrochelatase	1.55E-04	NM_007998
928	Prpf3	PRP3 pre-mRNA processing factor 3 homolog (yeast)	1.55E-04	NM_027541
929	Dcaf11	DDB1 and CUL4 associated factor 11	1.55E-04	NM_133734
930	Far1	fatty acyl CoA reductase 1	1.57E-04	NM_026143 /// NM_027379
931	Adcy9	adenylate cyclase 9	1.58E-04	NM_009624
932	E2f4	E2F transcription factor 4	1.60E-04	NM_148952
933	Hes1	hairy and enhancer of split 1 (Drosophila)	1.61E-04	NM_008235
934	Wnk1	WNK lysine deficient protein kinase 1	1.62E-04	NM_198703
935	Rusc1	RUN and SH3 domain containing 1	1.62E-04	NM_001083807 /// NM_001083808 /// NM_028188
936	H2-Ea	histocompatibility 2, class II antigen E alpha	1.63E-04	NM_010381
937	Ndufa1	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 1	1.63E-04	NM_019443
938	Tnfsf10	tumor necrosis factor (ligand) superfamily, member 10	1.64E-04	NM_009425
939	8-Sep	septin 8	1.64E-04	NM_033144
940	Pex16	peroxisomal biogenesis factor 16	1.64E-04	NM_145122 /// NR_028114
941	Smad1	MAD homolog 1 (Drosophila)	1.64E-04	NM_008539
942	Mami1	mastermind like 1 (Drosophila)	1.65E-04	NM_175334
943	Pea15a	phosphoprotein enriched in astrocytes 15A	1.66E-04	NM_011063
944	Tshz1	teashirt zinc finger family member 1	1.66E-04	NM_001081300
945	Elf2ak1	eukaryotic translation initiation factor 2 alpha kinase 1	1.67E-04	NM_013557
946	Myadm	myeloid-associated differentiation marker	1.68E-04	NM_001093764 /// NM_001093765 /// NM_001093766 /// NM_016969
947	Cyhr1	cysteine and histidine rich 1	1.69E-04	NM_019396 /// NM_180962
948	Tmem9b	TMEM9 domain family, member B	1.69E-04	NM_020050
949	Zfr	zinc finger RNA binding protein	1.72E-04	NM_011767
950	Plce1	phospholipase C, epsilon 1	1.72E-04	NM_019588
951	Ablim1	actin-binding LIM protein 1	1.73E-04	NM_001103177 /// NM_001103178 /// NM_178688
952	Gm11793 /// Hnrnpf	predicted gene 11793 /// heterogeneous nuclear ribonucleoprotein F	1.74E-04	NM_133834 /// XR_002079 /// XR_034451
953	---	---	1.77E-04	---
954	Fam13b	family with sequence similarity 13, member B	1.77E-04	NM_146084
955	Calcr1	calcitonin receptor-like	1.77E-04	NM_018782
956	Rpl14	ribosomal protein L14	1.78E-04	NM_025974
957	Ero1l /// Gm10191 /// Gm1300	ERO1-like (S. cerevisiae) /// predicted gene 10191 /// predicted gene 13004 ///	1.78E-04	NM_015774 /// NM_053257 /// XM_001473217 /// XM_001478009 /// XM_001478010
958	Nap11	nucleosome assembly protein 1-like 1	1.78E-04	NM_001146707 /// NM_015781
959	Trim44	tripartite motif-containing 44	1.79E-04	NM_020267
960	Hspa1b	heat shock protein 1B	1.79E-04	NM_010478
961	Mttp	microsomal triglyceride transfer protein	1.80E-04	NM_001163457 /// NM_008642
962	Zdhhc14	zinc finger, DHHC domain containing 14	1.80E-04	NM_146073
963	Fcgr2b	Fc receptor, IgG, low affinity IIb	1.81E-04	NM_001077189 /// NM_010187

964	A2m /// LOC677369	alpha-2-macroglobulin /// hypothetical protein LOC677369	1.83E-04	NM_175628 /// XR_005046
965	Prss16	protease, serine, 16 (thymus)	1.83E-04	NM_019429
966	Cdc42se1	CDC42 small effector 1	1.83E-04	NM_001038708 /// NM_172395
967	Itns1	intersectin 1 (SH3 domain protein 1A)	1.83E-04	NM_001110275 /// NM_001110276 /// NM_010587
968	Spred1	sprouty protein with EVH-1 domain 1, related sequence	1.83E-04	NM_033524
969	Smo	smoothened homolog (Drosophila)	1.85E-04	NM_176996
970	Gpr137b /// Gpr137b-ps /// LOC	G protein-coupled receptor 137B /// G protein-coupled receptor 137B, pseudogene	1.86E-04	NM_031999 /// NR_003568 /// XM_001473441 /// XR_001658
971	Sharpin	SHANK-associated RH domain interacting protein	1.87E-04	NM_025340
972	Fads1	fatty acid desaturase 1	1.87E-04	NM_146094
973	1810026J23RIK	RIKEN cDNA 1810026J23 gene	1.88E-04	NM_178619
974	BC056474	cDNA sequence BC056474	1.88E-04	NM_001001493
975	O610007P08RIK	RIKEN cDNA O610007P08 gene	1.89E-04	NM_001013608 /// NM_023507
976	Ube2d2	ubiquitin-conjugating enzyme E2D 2	1.89E-04	NM_019912
977	Mat2a	methionine adenosyltransferase II, alpha	1.90E-04	NM_145569
978	LOC100044953 /// Ppp1cb	similar to protein phosphatase 1 /// protein phosphatase 1, catalytic subunit, b	1.91E-04	NM_172707 /// XR_031192
979	Rexo2	REX2, RNA exonuclease 2 homolog (S. cerevisiae)	1.91E-04	NM_024233
980	Tmem50b	transmembrane protein 50B	1.92E-04	NM_030018
981	Dst	dystonin	1.93E-04	NM_133833 /// NM_134448
982	Ptprf	protein tyrosine phosphatase, receptor type, F	1.94E-04	NM_011213
983	Mfhas1	malignant fibrous histiocytoma amplified sequence 1	1.94E-04	NM_001081279
984	Tulp3	tubby-like protein 3	1.95E-04	NM_011657
985	Farp2	FERM, RhoGEF and pleckstrin domain protein 2	1.96E-04	NM_145519
986	Pvrl4	poliovirus receptor-related 4	1.96E-04	NM_001122680 /// NM_027893
987	Ilgp1	interferon inducible GTPase 1	1.97E-04	NM_001146275 /// NM_021792
988	Scara3	scavenger receptor class A, member 3	1.97E-04	NM_172604
989	Dgcr2	DiGeorge syndrome critical region gene 2	1.97E-04	NM_001109750 /// NM_010048
990	Baz2a	bromodomain adjacent to zinc finger domain, 2A	1.97E-04	NM_054078
991	Serbp1	serpine1 mRNA binding protein 1	1.97E-04	NM_001113564 /// NM_001113565 /// NM_001113566 /// NM_025814
992	Wwtr1	WW domain containing transcription regulator 1	1.98E-04	NM_133784
993	Aspm	asp (abnormal spindle)-like, microcephaly associated (Drosophila)	1.99E-04	NM_009791
994	Cd83	CD83 antigen	1.99E-04	NM_009856
995	Cyb5r3	cytochrome b5 reductase 3	2.00E-04	NM_029787
996	Hvcn1	hydrogen voltage-gated channel 1	2.01E-04	NM_001042489 /// NM_028752
997	Atp6v1b2	ATPase, H+ transporting, lysosomal V1 subunit B2	2.02E-04	NM_007509
998	Atp6v0c	ATPase, H+ transporting, lysosomal V0 subunit C	2.03E-04	NM_009729
999	Map4k4	mitogen-activated protein kinase kinase kinase kinase 4	2.04E-04	NM_008696
1000	S100a8	S100 calcium binding protein A8 (calgranulin A)	2.06E-04	NM_013650
1001	Abcb1a	ATP-binding cassette, sub-family B (MDR/TAP), member 1A	2.07E-04	NM_011076
1002	Tom7	translocase of outer mitochondrial membrane 7 homolog (yeast)	2.08E-04	NM_025394
1003	Ralgs2	Ral GEF with PH domain and SH3 binding motif 2	2.08E-04	NM_001159965 /// NM_001159966 /// NM_001159967 /// NM_001159968 ///
1004	Slc25a36	solute carrier family 25, member 36	2.08E-04	NM_138756
1005	Rgs2	regulator of G-protein signaling 2	2.09E-04	NM_009061
1006	Tnfrsf1a	tumor necrosis factor receptor superfamily, member 1a	2.09E-04	NM_011609
1007	Trib2	tribbles homolog 2 (Drosophila)	2.10E-04	NM_144551 /// XM_001474232 /// XM_001480364
1008	Esm1	endothelial cell-specific molecule 1	2.10E-04	NM_023612 /// XM_906879
1009	Lasp1	LIM and SH3 protein 1	2.10E-04	NM_010688

1010	BC004004	cDNA sequence BC004004	2.11E-04	NM_030561
1011	Large	like-glycosyltransferase	2.11E-04	NM_010687
1012	LOC100048071 /// Tex21	similar to tsec-2 /// testis expressed gene 21	2.12E-04	NM_001159532 /// NM_019784 /// XR_034206
1013	Ldoc1l	leucine zipper, down-regulated in cancer 1-like	2.13E-04	NM_177630
1014	Krt18	keratin 18	2.14E-04	NM_010664
1015	Myo1g	myosin IG	2.14E-04	NM_178440
1016	Srprb	signal recognition particle receptor, B subunit	2.15E-04	NM_009275
1017	Atp2a3	ATPase, Ca++ transporting, ubiquitous	2.15E-04	NM_001163336 /// NM_001163337 /// NM_016745
1018	---	---	2.19E-04	---
1019	Msi2	Musashi homolog 2 (Drosophila)	2.21E-04	NM_054043 /// XM_001471946
1020	Cox5b	cytochrome c oxidase, subunit Vb	2.21E-04	NM_009942
1021	Evl /// LOC100047333	Ena-vasodilator stimulated phosphoprotein /// similar to Ena-VASP-like	2.22E-04	NM_001163394 /// NM_001163395 /// NM_001163396 /// NM_007965 /// XM
1022	Kcmf1	potassium channel modulatory factor 1	2.22E-04	NM_019715 /// XM_001477544
1023	Dleu2	deleted in lymphocytic leukemia, 2	2.23E-04	NR_028264 /// XM_001000367 /// XM_981454
1024	Klf9	Kruppel-like factor 9	2.24E-04	NM_010638 /// XM_001479552
1025	Slc39a8	solute carrier family 39 (metal ion transporter), member 8	2.26E-04	NM_001135149 /// NM_001135150 /// NM_026228
1026	Tex261	testis expressed gene 261	2.27E-04	NM_009357
1027	S100a1	S100 calcium binding protein A1	2.27E-04	NM_011309
1028	Ubp1	upstream binding protein 1	2.29E-04	NM_001083319 /// NM_013699
1029	Cugbp1	CUG triplet repeat, RNA binding protein 1	2.29E-04	NM_017368 /// NM_198683
1030	A430107D22Rik	RIKEN cDNA A430107D22 gene	2.30E-04	NM_178785
1031	Robo1	roundabout homolog 1 (Drosophila)	2.30E-04	NM_019413
1032	Tnfsf12 /// Tnfsf12-tnfsf13 ///	tumor necrosis factor (ligand) superfamily, member 12 /// tumor necrosis factor	2.30E-04	NM_001034097 /// NM_001034098 /// NM_001159503 /// NM_001159505 ///
1033	Glipr1	GLI pathogenesis-related 1 (glioma)	2.30E-04	NM_028608
1034	Tgm2	transglutaminase 2, C polypeptide	2.30E-04	NM_009373
1035	Plekha7	pleckstrin homology domain containing, family A member 7	2.31E-04	NM_172743
1036	Spic	Spi-C transcription factor (Spi-1/PU.1 related)	2.32E-04	NM_011461
1037	Sico5a1	solute carrier organic anion transporter family, member 5A1	2.32E-04	NM_172841
1038	Gns	glucosamine (N-acetyl)-6-sulfatase	2.32E-04	NM_029364
1039	Pcsk7	proprotein convertase subtilisin/kexin type 7	2.33E-04	NM_008794
1040	Tram1	translocating chain-associating membrane protein 1	2.33E-04	NM_028173
1041	Tmem42	transmembrane protein 42	2.34E-04	NM_025339
1042	Adipoq	adiponectin, C1Q and collagen domain containing	2.35E-04	NM_009605
1043	Map3k1	mitogen-activated protein kinase kinase kinase 1	2.35E-04	NM_011945
1044	Gcom1	GRINL1A complex locus	2.35E-04	NM_001033208
1045	Mttr6	myotubularin related protein 6	2.37E-04	NM_144843
1046	Impa2	inositol (myo)-1(or 4)-monophosphatase 2	2.38E-04	NM_053261
1047	Reep6	receptor accessory protein 6	2.39E-04	NM_139292
1048	Chac2	ChaC, cation transport regulator homolog 2 (E. coli)	2.40E-04	NM_026527
1049	P2ry6	pyrimidinergic receptor P2Y, G-protein coupled, 6	2.41E-04	NM_183168
1050	Pik3cg	phosphoinositide-3-kinase, catalytic, gamma polypeptide	2.41E-04	NM_001146200 /// NM_001146201 /// NM_020272
1051	Sparc	secreted acidic cysteine rich glycoprotein	2.43E-04	NM_009242
1052	Elf4e3	eukaryotic translation initiation factor 4E member 3	2.43E-04	NM_025829
1053	1810031K17Rik	RIKEN cDNA 1810031K17 gene	2.43E-04	NM_026977
1054	Aco1	aconitase 1	2.43E-04	NM_007386
1055	H3f3b	H3 histone, family 3B	2.44E-04	NM_008211

1056	Pim2	:proviral integration site 2	2.44E-04	NM_138606
1057	Higd1c /// Mettl7a1 /// Mettl7a	:HIG1 domain family, member 1C /// methyltransferase like 7A1 /// methyltransferase	2.45E-04	NM_001002900 /// NM_027334 /// NM_199477
1058	Sri	:sorcin	2.45E-04	NM_001080974 /// NM_025618
1059	Ctsb	:cathepsin B	2.46E-04	NM_007798
1060	Tmsb4x	:thymosin, beta 4, X chromosome	2.48E-04	NM_021278
1061	A030009H04Rik	:RIKEN cDNA A030009H04 gene	2.48E-04	NM_020591 /// NR_027827
1062	Hnrnp1	:Heterogeneous nuclear ribonucleoprotein H1	2.48E-04	NM_021510
1063	Pitpnm2	:phosphatidylinositol transfer protein, membrane-associated 2	2.49E-04	NM_011256
1064	Myst2	:MYST histone acetyltransferase 2	2.50E-04	NM_177619
1065	Cln6	:ceroid-lipofuscinosis, neuronal 6	2.50E-04	NM_001033175
1066	Fcgr2b	:Fc receptor, IgG, low affinity IIb	2.50E-04	NM_001077189 /// NM_010187
1067	Opctl	:glutaminyI-peptide cyclotransferase-like	2.52E-04	NM_026111
1068	Rqcd1	:rcd1 (required for cell differentiation) homolog 1 (S. pombe)	2.53E-04	NM_021383
1069	Gnpda1	:glucosamine-6-phosphate deaminase 1	2.55E-04	NM_011937
1070	Pip5k1b	:phosphatidylinositol-4-phosphate 5-kinase, type 1 beta	2.55E-04	NM_008846
1071	LOC100046080 /// Spin1	:similar to Spindlin 1 /// spindlin 1	2.56E-04	NM_011462 /// NM_146043 /// XM_001475418 /// XM_001475434
1072	Darc	:Duffy blood group, chemokine receptor	2.57E-04	NM_010045
1073	Rap2a	:RAS related protein 2a	2.57E-04	NM_029519
1074	1810063B05Rik	:RIKEN cDNA 1810063B05 gene	2.58E-04	NM_174987
1075	Psap	:prosaposin	2.60E-04	NM_001146120 /// NM_001146121 /// NM_001146122 /// NM_001146123 ///
1076	Anxa9	:annexin A9	2.61E-04	NM_001085383 /// NM_023628
1077	Rcan2	:regulator of calcineurin 2	2.63E-04	NM_030598 /// NM_207649
1078	Sh3bp5	:SH3-domain binding protein 5 (BTK-associated)	2.63E-04	NM_011894
1079	Timp3	:tissue inhibitor of metalloproteinase 3	2.65E-04	NM_011595
1080	Med26	:mediator complex subunit 26	2.66E-04	NM_027485
1081	Dnajb1	:DnaJ (Hsp40) homolog, subfamily B, member 1	2.67E-04	NM_018808
1082	Ptges3	:prostaglandin E synthase 3 (cytosolic)	2.67E-04	NM_019766
1083	Ercc4	:excision repair cross-complementing rodent repair deficiency, complementation gr	2.68E-04	NM_015769
1084	D2Erdt391e	:DNA segment, Chr 2, ERATO Doi 391, expressed	2.69E-04	NM_145528
1085	AI462493	:expressed sequence AI462493	2.69E-04	NM_001160356 /// XM_887080 /// XM_907845
1086	Cbx1	:chromobox homolog 1 (Drosophila HP1 beta)	2.70E-04	NM_007622
1087	Bambi	:BMP and activin membrane-bound inhibitor, homolog (Xenopus laevis)	2.73E-04	NM_026505
1088	Entpd1	:ectonucleoside triphosphate diphosphohydrolase 1	2.74E-04	NM_009848
1089	Hnrnpa1	:heterogeneous nuclear ribonucleoprotein A1	2.74E-04	NM_001039129 /// NM_010447
1090	Tipr1	:TIP41, TOR signalling pathway regulator-like (S. cerevisiae)	2.76E-04	NM_145513
1091	Snap23	:synaptosomal-associated protein 23	2.76E-04	NM_009222
1092	Paxip1	:PAX interacting (with transcription-activation domain) protein 1	2.78E-04	NM_018878
1093	Cdh11	:cadherin 11	2.78E-04	NM_009866
1094	---	---	2.78E-04	---
1095	Heph	:hephaestin	2.81E-04	NM_001159627 /// NM_001159628 /// NM_010417 /// NM_181273
1096	Rbm7	:RNA binding motif protein 7	2.81E-04	NM_144948
1097	Dgcr6	:DiGeorge syndrome critical region gene 6	2.82E-04	NM_010047
1098	Hsd17b4	:hydroxysteroid (17-beta) dehydrogenase 4	2.83E-04	NM_008292
1099	Wnt5b	:wingless-related MMTV integration site 5B	2.83E-04	NM_009525
1100	Pvr	:poliovirus receptor	2.83E-04	NM_027514
1101	Tjp2	:tight junction protein 2	2.85E-04	NM_011597

1102	Gpr133	G protein-coupled receptor 133	2.86E-04	NM_001081342
1103	Kctd10	potassium channel tetramerisation domain containing 10	2.86E-04	NM_001159941 /// NM_026145
1104	Pitpnc1	phosphatidylinositol transfer protein, cytoplasmic 1	2.87E-04	NM_145823
1105	Ppic	peptidylprolyl isomerase C	2.87E-04	NM_008908
1106	Hif1a	hypoxia inducible factor 1, alpha subunit	2.88E-04	NM_010431
1107	Wdr75	WD repeat domain 75	2.88E-04	NM_028599
1108	---	---	2.90E-04	---
1109	Picalm	phosphatidylinositol binding clathrin assembly protein	2.91E-04	NM_146194
1110	S100a6	S100 calcium binding protein A6 (calcyclin)	2.91E-04	NM_011313
1111	Osr1	odd-skipped related 1 (Drosophila)	2.92E-04	NM_011859
1112	Pcdhb21	protocadherin beta 21	2.94E-04	NM_053146
1113	Rmi1	RMI1, RecQ mediated genome instability 1, homolog (S. cerevisiae)	2.94E-04	NM_028904
1114	Hibadh	3-hydroxyisobutyrate dehydrogenase	2.95E-04	NM_145567
1115	Pip4k2a	phosphatidylinositol-5-phosphate 4-kinase, type II, alpha	2.95E-04	NM_008845
1116	Pdgfb	platelet derived growth factor, B polypeptide	2.95E-04	NM_011057
1117	Plscr1	phospholipid scramblase 1	2.95E-04	NM_011636
1118	Abcc5	ATP-binding cassette, sub-family C (CFTR/MRP), member 5	2.95E-04	NM_013790 /// NM_176839
1119	Chac1	ChaC, cation transport regulator-like 1 (E. coli)	2.96E-04	NM_026929
1120	Tmem115	transmembrane protein 115	2.97E-04	NM_019704
1121	Sdpr	serum deprivation response	2.97E-04	NM_138741
1122	Rabl3	RAB, member of RAS oncogene family-like 3	3.00E-04	NM_001042499
1123	Upk3b	uroplakin 3B	3.02E-04	NM_175309
1124	Gm9844 /// Tmsb10	predicted gene 9844 /// thymosin, beta 10	3.02E-04	NM_001039392 /// NM_025284 /// XM_001478515 /// XM_001480801
1125	Trmt2a	TRM2 tRNA methyltransferase 2 homolog A (S. cerevisiae)	3.04E-04	NM_001080999 /// NM_001081000 /// NM_008307
1126	Cxcl16	chemokine (C-X-C motif) ligand 16	3.04E-04	NM_023158
1127	Epb4.111	erythrocyte protein band 4.1-like 1	3.04E-04	NM_001003815 /// NM_001006664 /// NM_013510
1128	Cd97	CD97 antigen	3.07E-04	NM_001163029 /// NM_001163030 /// NM_001163031 /// NM_011925
1129	4933407N01Rik	RIKEN cDNA 4933407N01 gene	3.07E-04	NM_025745
1130	Serf2	small EDRK-rich factor 2	3.08E-04	NM_011354
1131	Diap2	diaphanous homolog 2 (Drosophila)	3.12E-04	NM_017398 /// NM_172493
1132	Cd53	CD53 antigen	3.13E-04	NM_007651
1133	Mfsd1	major facilitator superfamily domain containing 1	3.16E-04	NM_025813
1134	Ubr5	ubiquitin protein ligase E3 component n-recognin 5	3.18E-04	NM_001081359 /// NM_001112721
1135	Pstpip2	proline-serine-threonine phosphatase-interacting protein 2	3.20E-04	NM_013831
1136	Cd300lf /// LOC100047115	CD300 antigen like family member F /// similar to CD300 antigen like family memb	3.21E-04	NM_145634 /// XR_033645
1137	Ap2m1	adaptor protein complex AP-2, mu1	3.21E-04	NM_009679
1138	4930471M23Rik	RIKEN cDNA 4930471M23 gene	3.21E-04	NM_175675
1139	St6gal1	beta galactoside alpha 2,6 sialyltransferase 1	3.22E-04	NM_145933
1140	4930579C15Rik	RIKEN cDNA 4930579C15 gene	3.23E-04	NM_027089
1141	Tpm2	tropomyosin 2, beta	3.23E-04	NM_009416
1142	Rnf130	ring finger protein 130	3.26E-04	NM_021540
1143	Stx7	syntaxin 7	3.28E-04	NM_016797
1144	Psen1	presenilin 1	3.30E-04	NM_008943
1145	Slit3	slit homolog 3 (Drosophila)	3.30E-04	NM_011412
1146	Bnc1	basonuclin 1	3.31E-04	NM_007562
1147	Klf13	Kruppel-like factor 13	3.31E-04	NM_021366

1148	Mxra8	matrix-remodelling associated 8	3.31E-04	NM_024263
1149	Nap111	nucleosome assembly protein 1-like 1	3.32E-04	NM_001146707 /// NM_015781
1150	Syne1	synaptic nuclear envelope 1	3.33E-04	NM_001079686 /// NM_022027 /// NM_153399
1151	Gnl2 /// LOC633966	guanine nucleotide binding protein-like 2 (nucleolar) /// similar to guanine nuc	3.34E-04	NM_145552 /// XM_908539
1152	Sel1l	sel-1 suppressor of lin-12-like (C. elegans)	3.36E-04	NM_001039089 /// NM_011344
1153	Hist1h4a /// Hist1h4b /// Hist1h4c	histone cluster 1, H4a /// histone cluster 1, H4b /// histone cluster 1, H4c ///	3.37E-04	NM_153173 /// NM_175656 /// NM_175657 /// NM_178192 /// NM_178193 ///
1154	Bgn	biglycan	3.38E-04	NM_007542
1155	2810055F11RIK	RIKEN cDNA 2810055F11 gene	3.39E-04	NM_026038
1156	Mrpl15	mitochondrial ribosomal protein L15	3.39E-04	NM_025300
1157	Cndp2	CNDP dipeptidase 2 (metallopeptidase M20 family)	3.39E-04	NM_023149
1158	Cxcl1	chemokine (C-X-C motif) ligand 1	3.41E-04	NM_008176
1159	Cp	ceruloplasmin	3.41E-04	NM_001042611 /// NM_007752
1160	Abhd3	abhydrolase domain containing 3	3.41E-04	NM_134130
1161	Ublcp1	ubiquitin-like domain containing CTD phosphatase 1	3.42E-04	NM_024475
1162	Bicc1	bicaudal C homolog 1 (Drosophila)	3.42E-04	NM_031397
1163	Pdxdc1	pyridoxal-dependent decarboxylase domain containing 1	3.46E-04	NM_001039533 /// NM_053181
1164	Trappc4	trafficking protein particle complex 4	3.46E-04	NM_021789
1165	Ubp1	upstream binding protein 1	3.47E-04	NM_001083319 /// NM_013699
1166	Srp9	signal recognition particle 9	3.49E-04	NM_012058
1167	Msr1	macrophage scavenger receptor 1	3.50E-04	NM_001113326 /// NM_031195
1168	H2-Aa	histocompatibility 2, class II antigen A, alpha	3.51E-04	NM_010378
1169	Ube2d1	ubiquitin-conjugating enzyme E2D 1, UBC4/5 homolog (yeast)	3.52E-04	NM_145420
1170	7-Sep	septin 7	3.52E-04	NM_009859
1171	Pla2g16	phospholipase A2, group XVI	3.54E-04	NM_139269
1172	Dynll1 /// Gm6788	dynein light chain LC8-type 1 /// predicted gene 6788	3.54E-04	NM_019682 /// XM_892488 /// XM_913631
1173	Tmem183a	transmembrane protein 183A	3.56E-04	NM_001042485 /// NM_020588
1174	Gm13305 /// Gm2002 /// Il11r1	predicted gene 13305 /// predicted gene 2002 /// interleukin 11 receptor, alpha	3.59E-04	NM_001099348 /// NM_001100596 /// NM_001163401 /// NM_010549 /// NM_010550
1175	Itsn1	intersectin 1 (SH3 domain protein 1A)	3.60E-04	NM_001110275 /// NM_001110276 /// NM_010587
1176	Nelf	nasal embryonic LHRH factor	3.64E-04	NM_001039386 /// NM_001039387 /// NM_020276
1177	Hist1h2ad /// Hist1h2an /// Hist1h2af	histone cluster 1, H2ad /// histone cluster 1, H2an /// histone cluster 2, H2aa1	3.68E-04	NM_013549 /// NM_019469 /// NM_175662 /// NM_178184 /// NM_178188 ///
1178	Car2	carbonic anhydrase 2	3.70E-04	NM_009801
1179	Insr	insulin receptor	3.72E-04	NM_001033381 /// NM_010568
1180	Ulk2	Unc-51 like kinase 2 (C. elegans)	3.72E-04	NM_013881
1181	Hist1h1t	histone cluster 1, H1t	3.73E-04	NM_010377
1182	Rab7l1	RAB7, member RAS oncogene family-like 1	3.74E-04	NM_144875
1183	Hip1	huntingtin interacting protein 1	3.76E-04	NM_146001
1184	Rpl14	ribosomal protein L14	3.76E-04	NM_025974
1185	Arf2	ADP-ribosylation factor 2	3.77E-04	NM_007477
1186	Lcp1	lymphocyte cytosolic protein 1	3.77E-04	NM_008879
1187	Cox5a	cytochrome c oxidase, subunit Va	3.78E-04	NM_007747
1188	Rusc1	RUN and SH3 domain containing 1	3.78E-04	NM_001083807 /// NM_001083808 /// NM_028188
1189	Nrip1	nuclear receptor interacting protein 1	3.81E-04	NM_173440
1190	Serpinb6a	serine (or cysteine) peptidase inhibitor, clade B, member 6a	3.82E-04	NM_001164117 /// NM_001164118 /// NM_009254 /// NR_028309
1191	Upk3b	uroplakin 3B	3.82E-04	NM_175309
1192	Klf4	Kruppel-like factor 4 (gut)	3.83E-04	NM_010637
1193	Myb	myeloblastosis oncogene	3.84E-04	NM_010848

1194	Ccdc71	coiled-coil domain containing 71	3.85E-04	NM_133744
1195	Ube2d3	ubiquitin-conjugating enzyme E2D 3 (UBC4/5 homolog, yeast)	3.86E-04	NM_025356
1196	Car12	carbonic anhydrase 12	3.89E-04	NM_178396
1197	Msln	mesothelin	3.89E-04	NM_018857
1198	Mobk13	MOB1, Mps One Binder Kinase activator-like 3 (yeast)	3.90E-04	NM_025283
1199	Txndc17	thioredoxin domain containing 17	3.91E-04	NM_026559
1200	Ehd1	EH-domain containing 1	3.92E-04	NM_010119
1201	Cpeb3	cytoplasmic polyadenylation element binding protein 3	3.93E-04	NM_198300
1202	Dnmt1	DNA methyltransferase (cytosine-5) 1	3.93E-04	NM_010066
1203	Marcks	myristoylated alanine rich protein kinase C substrate	3.94E-04	NM_008538
1204	Mgl1	macrophage galactose N-acetyl-galactosamine specific lectin 1	3.95E-04	NM_010796
1205	Sdc4	syndecan 4	3.96E-04	NM_011521
1206	Brdt	bromodomain, testis-specific	3.97E-04	NM_001079873 /// NM_054054
1207	Laptm5	lysosomal-associated protein transmembrane 5	3.97E-04	NM_010686
1208	Nsg2	neuron specific gene family member 2	3.98E-04	NM_008741
1209	Vti1b	vesicle transport through interaction with t-SNAREs 1B homolog	3.99E-04	NM_016800
1210	Gsn	gelsolin	4.02E-04	NM_146120
1211	Mat2a	methionine adenosyltransferase II, alpha	4.04E-04	NM_145569
1212	C3ar1	complement component 3a receptor 1	4.05E-04	NM_009779
1213	Hif1a	hypoxia inducible factor 1, alpha subunit	4.05E-04	NM_010431
1214	Hsd3b7	hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 7	4.05E-04	NM_001040684 /// NM_133943
1215	Mobk11b	MOB1, Mps One Binder Kinase activator-like 1B (yeast)	4.06E-04	NM_145571
1216	Ankzf1	ankyrin repeat and zinc finger domain containing 1	4.06E-04	NM_026187
1217	Sel1l	sel-1 suppressor of lin-12-like (C. elegans)	4.09E-04	NM_001039089 /// NM_011344
1218	Kat2b	K(lysine) acetyltransferase 2B	4.10E-04	NM_020005
1219	Prkca	protein kinase C, alpha	4.13E-04	NM_011101
1220	Myo1f	myosin IF	4.14E-04	NM_053214
1221	Dgat2	diacylglycerol O-acyltransferase 2	4.15E-04	NM_026384
1222	Top3b	topoisomerase (DNA) III beta	4.16E-04	NM_011624
1223	Arhgef3	Rho guanine nucleotide exchange factor (GEF) 3	4.21E-04	NM_027871
1224	Igfbp7	insulin-like growth factor binding protein 7	4.23E-04	NM_001159518 /// NM_008048
1225	Igfbp4	insulin-like growth factor binding protein 4	4.23E-04	NM_010517
1226	Nrp2	neuropilin 2	4.24E-04	NM_001077403 /// NM_001077404 /// NM_001077405 /// NM_001077406 ///
1227	Ermp1	endoplasmic reticulum metalloproteinase 1	4.24E-04	NM_001081213
1228	Rpgr /// SrpX	retinitis pigmentosa GTPase regulator /// sushi-repeat-containing protein	4.25E-04	NM_011285 /// NM_016911
1229	LOC100047091 /// Tmem163	hypothetical protein LOC100047091 /// transmembrane protein 163	4.27E-04	NM_028135 /// XM_001477366
1230	Et14	enhancer trap locus 4	4.29E-04	NM_001081006
1231	Ifih1	interferon induced with helicase C domain 1	4.32E-04	NM_001164477 /// NM_027835
1232	Nfu1	NFU1 iron-sulfur cluster scaffold homolog (S. cerevisiae)	4.32E-04	NM_020045
1233	Spnb2	spectrin beta 2	4.32E-04	NM_009260 /// NM_175836
1234	Capg	capping protein (actin filament), gelsolin-like	4.35E-04	NM_001042534 /// NM_007599
1235	Gm9803 /// Magmas	predicted gene 9803 /// mitochondria-associated protein involved in granulocyte-	4.35E-04	NM_025571 /// XM_001477683 /// XM_001477838
1236	Tnfaip1	tumor necrosis factor, alpha-induced protein 1 (endothelial)	4.35E-04	NM_001159392 /// NM_009395
1237	Hnrnpa1	heterogeneous nuclear ribonucleoprotein A1	4.36E-04	NM_001039129 /// NM_010447
1238	Ttc19	tetratricopeptide repeat domain 19	4.37E-04	NM_028360 /// NM_029704
1239	Cp	ceruloplasmin	4.39E-04	NM_001042611 /// NM_007752

1240	Abca3	ATP-binding cassette, sub-family A (ABC1), member 3	4.39E-04	NM_001039581 /// NM_013855
1241	Selplg	selectin, platelet (p-selectin) ligand	4.40E-04	NM_009151
1242	Mmp3	matrix metalloproteinase 3	4.42E-04	NM_010809
1243	Tanc1	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1	4.42E-04	NM_198294
1244	Plac8	placenta-specific 8	4.42E-04	NM_139198
1245	Gm12617	predicted gene 12617	4.43E-04	XM_001000017
1246	C730025P13Rik	RIKEN cDNA C730025P13 gene	4.44E-04	NM_177344
1247	Gmfg	glia maturation factor, gamma	4.44E-04	NM_001039192 /// NM_022024
1248	Ndst1	N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 1	4.46E-04	NM_008306
1249	LOC676654 /// Lyn	similar to Yamaguchi sarcoma viral (v-yes-1) oncogene homolog /// Yamaguchi sarc	4.48E-04	NM_001111096 /// NM_010747 /// XM_991890
1250	Cdca7	cell division cycle associated 7	4.48E-04	NM_025866
1251	Ovgp1	oviductal glycoprotein 1	4.53E-04	NM_007696
1252	Fxyd5	FXD domain-containing ion transport regulator 5	4.53E-04	NM_001111073 /// NM_008761
1253	Unc13b	unc-13 homolog B (C. elegans)	4.56E-04	NM_001081413
1254	2310044H10Rik	RIKEN cDNA 2310044H10 gene	4.56E-04	NM_197991
1255	Cdo1	cysteine dioxygenase 1, cytosolic	4.57E-04	NM_033037
1256	Rab23	RAB23, member RAS oncogene family	4.57E-04	NM_001159729 /// NM_008999
1257	Bgn	biglycan	4.59E-04	NM_007542
1258	Igfbp4	insulin-like growth factor binding protein 4	4.61E-04	NM_010517
1259	Foxp1	forkhead box P1	4.62E-04	NM_053202
1260	Sparcl1	SPARC-like 1	4.64E-04	NM_010097
1261	Abcc5	ATP-binding cassette, sub-family C (CFTR/MRP), member 5	4.65E-04	NM_013790 /// NM_176839
1262	Arhgap24	Rho GTPase activating protein 24	4.66E-04	NM_029270 /// NM_146161
1263	Lphn1	latrophilin 1	4.67E-04	NM_181039
1264	Tmem38b	transmembrane protein 38B	4.71E-04	NM_028053
1265	Hdlbp	high density lipoprotein (HDL) binding protein	4.73E-04	NM_133808
1266	Mettl9	methyltransferase like 9	4.74E-04	NM_021554
1267	Ctca2	chloride channel calcium activated 2	4.77E-04	NM_030601
1268	Cd151	CD151 antigen	4.77E-04	NM_001111049 /// NM_001111050 /// NM_009842
1269	Gimap4	GTPase, IMAP family member 4	4.79E-04	NM_174990 /// NM_175048
1270	Phlda1	pleckstrin homology-like domain, family A, member 1	4.81E-04	NM_009344
1271	Stard5	STAR-related lipid transfer (START) domain containing 5	4.82E-04	NM_023377
1272	Manba	mannosidase, beta A, lysosomal	4.83E-04	NM_027288
1273	Nucks1	nuclear casein kinase and cyclin-dependent kinase substrate 1	4.88E-04	NM_001145804 /// NM_175294
1274	Tsn	translin	4.88E-04	NM_011650
1275	Tubb5	tubulin, beta 5	4.90E-04	NM_011655
1276	Aldoa	aldolase A, fructose-bisphosphate	4.93E-04	NM_007438
1277	Ubxn6	UBX domain protein 6	4.95E-04	NM_024432
1278	Rab34	RAB34, member of RAS oncogene family	4.96E-04	NM_001159482 /// NM_033475
1279	Tdgf1	teratocarcinoma-derived growth factor 1	4.97E-04	NM_011562
1280	Pygl	liver glycogen phosphorylase	4.97E-04	NM_133198
1281	Spg20	spastic paraplegia 20, spartin (Troyer syndrome) homolog (human)	4.97E-04	NM_001144987 /// NM_001144988 /// NM_144895
1282	Nfx1	nuclear transcription factor, X-box binding 1	5.00E-04	NM_023739
1283	Tpd52	tumor protein D52	5.03E-04	NM_001025261 /// NM_001025262 /// NM_001025263 /// NM_001025264 ///
1284	1500035H01Rik	RIKEN cDNA 1500035H01 gene	5.03E-04	NM_023831
1285	Pbx1	pre B-cell leukemia transcription factor 1	5.03E-04	NM_008783 /// NM_183355

1286	Tulp3	tubby-like protein 3	5.04E-04	NM_011657
1287	Epn1	epsin 1	5.04E-04	NM_010147
1288	Zcchc3	zinc finger, CCHC domain containing 3	5.07E-04	NM_175126
1289	Klf9	Kruppel-like factor 9	5.09E-04	NM_010638 /// XM_001479552
1290	AI324046 /// Igh /// Igh-6 ///	expressed sequence AI324046 /// immunoglobulin heavy chain complex /// immunoglobulin heavy chain complex	5.10E-04	XM_001473588 /// XM_001473698 /// XM_001477926 /// XM_001477938 ///
1291	Tcerg1	transcription elongation regulator 1 (CA150)	5.10E-04	NM_001039474
1292	Ahcy12	S-adenosylhomocysteine hydrolase-like 2	5.11E-04	NM_021414
1293	Lima1	LIM domain and actin binding 1	5.13E-04	NM_001113545 /// NM_023063
1294	Sema4g	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic tail	5.14E-04	NM_011976
1295	Plau	plasminogen activator, urokinase	5.16E-04	NM_008873
1296	Bgn	biglycan	5.16E-04	NM_007542
1297	Ceacam10	carcinoembryonic antigen-related cell adhesion molecule 10	5.19E-04	NM_007675
1298	Alg9	asparagine-linked glycosylation 9 homolog (yeast, alpha 1,2 mannosyltransferase)	5.20E-04	NM_133981
1299	Zfp87	zinc finger protein 87	5.21E-04	NM_133228
1300	Gm6159 /// Hnrnpr	predicted gene 6159 /// heterogeneous nuclear ribonucleoprotein R	5.21E-04	NM_028871 /// XR_030753
1301	P1xdc1	plexin domain containing 1	5.22E-04	NM_001163608 /// NM_028199
1302	Ncbp2	nuclear cap binding protein subunit 2	5.25E-04	NM_026554
1303	Clcc1	chloride channel CLIC-like 1	5.25E-04	NM_145543
1304	Tram1	translocating chain-associating membrane protein 1	5.26E-04	NM_028173
1305	Mrpl44	mitochondrial ribosomal protein L44	5.26E-04	NM_001081210
1306	Tubb2a	tubulin, beta 2A	5.27E-04	NM_009450
1307	Rpl37a	ribosomal protein L37a	5.28E-04	NM_009084
1308	Metap2	methionine aminopeptidase 2	5.28E-04	NM_019648
1309	Tmem71	transmembrane protein 71	5.28E-04	NM_172514
1310	Snrpa	small nuclear ribonucleoprotein polypeptide A	5.29E-04	NM_001046637 /// NM_015782
1311	Adh5	alcohol dehydrogenase 5 (class III), chi polypeptide	5.29E-04	NM_007410
1312	---	---	5.30E-04	---
1313	Spg11	spastic paraplegia 11	5.31E-04	NM_145531 /// XM_904251
1314	Snai2	snail homolog 2 (Drosophila)	5.32E-04	NM_011415
1315	Entpd1	ectonucleoside triphosphate diphosphohydrolase 1	5.33E-04	NM_009848
1316	Slc35a5	solute carrier family 35, member A5	5.34E-04	NM_028756
1317	Cluap1	clusterin associated protein 1	5.35E-04	NM_029738
1318	Ucp2	uncoupling protein 2 (mitochondrial, proton carrier)	5.36E-04	NM_011671
1319	Cebpd	CCAAT/enhancer binding protein (C/EBP), delta	5.39E-04	NM_007679
1320	Raver1	ribonucleoprotein, PTB-binding 1	5.41E-04	NM_027911
1321	Tmem176a	transmembrane protein 176A	5.42E-04	NM_001098271 /// NM_025326
1322	Dmx11	Dmx-like 1	5.45E-04	NM_001081371
1323	Ddx5	DEAD (Asp-Glu-Ala-Asp) box polypeptide 5	5.45E-04	NM_007840
1324	Map3k7	mitogen-activated protein kinase kinase kinase 7	5.45E-04	NM_009316 /// NM_172688
1325	Gm13342 /// Gm15776 /// Gm13342	predicted gene 13342 /// predicted gene 15776 /// predicted gene 3150 /// guanine nucleotide binding protein (GTP-binding) gamma 1	5.46E-04	NM_010318 /// XM_001472269 /// XM_001474885 /// XM_001475494 /// XM_001475495 ///
1326	6720475J19RIK	RIKEN cDNA 6720475J19 gene	5.46E-04	XM_001474896 /// XM_001481296
1327	Akr1c13	aldo-keto reductase family 1, member C13	5.47E-04	NM_013778
1328	Mbp	myelin basic protein	5.49E-04	NM_001025245 /// NM_001025251 /// NM_001025254 /// NM_001025255 ///
1329	Cox19	COX19 cytochrome c oxidase assembly homolog (S. cerevisiae)	5.49E-04	NM_197980
1330	Phb2	prohibitin 2	5.49E-04	NM_007531
1331	Tnks2	tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase 2	5.50E-04	NM_001163635 /// XM_001000101 /// XM_917270

1332	Tceb1	transcription elongation factor B (SII1), polypeptide 1	5.52E-04	NM_026456
1333	Ifi202b	interferon activated gene 202B	5.52E-04	NM_008327 /// NM_011940
1334	Lgals1	lectin, galactose binding, soluble 1	5.54E-04	NM_008495
1335	Wdr48	WD repeat domain 48	5.56E-04	NM_026236
1336	Il6st	interleukin 6 signal transducer	5.57E-04	NM_010560
1337	Fhod3	formin homology 2 domain containing 3	5.60E-04	NM_175276
1338	Ppp6c	protein phosphatase 6, catalytic subunit	5.62E-04	NM_024209
1339	Rps21	ribosomal protein S21	5.62E-04	NM_025587
1340	Elof1	elongation factor 1 homolog (ELF1, S. cerevisiae)	5.63E-04	NM_170777
1341	Spes1	signal peptidase complex subunit 1 homolog (S. cerevisiae)	5.65E-04	NM_026911
1342	Tgtp /// Tgtp2	T-cell specific GTPase /// T-cell specific GTPase 2	5.66E-04	NM_001145164 /// NM_011579 /// XR_031267
1343	Ncbp2	nuclear cap binding protein subunit 2	5.68E-04	NM_026554
1344	Gm5931 /// Ube2l	ubiquitin-conjugating enzyme E2I pseudogene /// ubiquitin-conjugating enzyme E2I	5.69E-04	NM_011665 /// XM_620954 /// XM_980111
1345	Fkbp15	FK506 binding protein 15	5.69E-04	NM_001045528 /// XM_485391 /// XM_982256
1346	Lats2	large tumor suppressor 2	5.74E-04	NM_015771 /// NM_153382
1347	Csmd1	CUB and Sushi multiple domains 1	5.75E-04	NM_053171
1348	Ivns1abp	influenza virus NS1A binding protein	5.77E-04	NM_001039511 /// NM_001039512 /// NM_054102
1349	Ipo4	importin 4	5.80E-04	NM_024267
1350	---	---	5.80E-04	---
1351	Pdgfc	platelet-derived growth factor, C polypeptide	5.82E-04	NM_019971
1352	Rnft1	ring finger protein, transmembrane 1	5.83E-04	NM_029788
1353	2010204K13Rik	RIKEN cDNA 2010204K13 gene	5.86E-04	NR_027924 /// NR_027925 /// XR_035367
1354	Stat5a	signal transducer and activator of transcription 5A	5.87E-04	NM_001164062 /// NM_011488
1355	Clec4e	C-type lectin domain family 4, member e	5.88E-04	NM_019948
1356	B230219D22Rik	RIKEN cDNA B230219D22 gene	5.88E-04	NM_181278
1357	Fam107b	family with sequence similarity 107, member B	5.88E-04	NM_025626
1358	Mfsd4	major facilitator superfamily domain containing 4	5.92E-04	NM_001114662 /// NM_172510
1359	Fcgr1	Fc receptor, IgG, high affinity I	5.95E-04	NM_010186
1360	Nab1	Ngfi-A binding protein 1	5.97E-04	NM_008667
1361	Sulf2	sulfatase 2	5.99E-04	NM_028072
1362	Rps11	ribosomal protein S11	6.00E-04	NM_013725
1363	Bid	BH3 interacting domain death agonist	6.02E-04	NM_007544
1364	C1qa	complement component 1, q subcomponent, alpha polypeptide	6.03E-04	NM_007572
1365	Gm13611 /// Gm4604 /// LOC100287211	predicted gene 13611 /// predicted gene 4604 /// similar to Rpl36 protein /// ri	6.04E-04	NM_018730 /// XM_001480072 /// XM_001480721 /// XM_001480806 /// XM_001480807
1366	Sik	STE20-like kinase (yeast)	6.05E-04	NM_009289
1367	Cp	ceruloplasmin	6.07E-04	NM_001042611 /// NM_007752
1368	Nktr	natural killer tumor recognition sequence	6.09E-04	NM_010918
1369	Ctsd	cathepsin D	6.10E-04	NM_009983
1370	Gja1	gap junction protein, alpha 1	6.11E-04	NM_010288
1371	Ly6a	lymphocyte antigen 6 complex, locus A	6.13E-04	NM_010738
1372	Mycs	myc-like oncogene, s-myc protein	6.13E-04	NM_010850
1373	Wdr45	WD repeat domain 45	6.15E-04	NM_172372
1374	1810063B07Rik	RIKEN cDNA 1810063B07 gene	6.19E-04	NM_026209 /// XM_907029 /// XM_973341
1375	Nov	nephroblastoma overexpressed gene	6.19E-04	NM_010930
1376	Tek	endothelial-specific receptor tyrosine kinase	6.25E-04	NM_013690
1377	Nek7	NIMA (never in mitosis gene a)-related expressed kinase 7	6.25E-04	NM_021605

1378	Tbrg1	transforming growth factor beta regulated gene 1	6.26E-04	NM_025289
1379	Casp4	caspase 4, apoptosis-related cysteine peptidase	6.27E-04	NM_007609
1380	Repin1	replication initiator 1	6.27E-04	NM_001079901 /// NM_001079902 /// NM_001079903 /// NM_001079904 ///
1381	Blvra	biliverdin reductase A	6.28E-04	NM_026678
1382	Pcmt1	protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 1	6.28E-04	NM_183028
1383	Pigc	phosphatidylinositol glycan anchor biosynthesis, class C	6.29E-04	NM_001039045 /// NM_026078
1384	BC013712	cDNA sequence BC013712	6.29E-04	NM_001033308
1385	Gm568	predicted gene 568	6.29E-04	---
1386	Erlin1	ER lipid raft associated 1	6.30E-04	NM_001164359 /// NM_001164360 /// NM_145502
1387	Rab14	RAB14, member RAS oncogene family	6.31E-04	NM_026697
1388	Zfp445	zinc finger protein 445	6.31E-04	NM_173364
1389	Tbc1d10a	TBC1 domain family, member 10a	6.33E-04	NM_134023
1390	Serpnb1a	serine (or cysteine) peptidase inhibitor, clade B, member 1a	6.33E-04	NM_025429
1391	Apobec1	apolipoprotein B mRNA editing enzyme, catalytic polypeptide 1	6.34E-04	NM_001134391 /// NM_031159
1392	Pcdhb9	protocadherin beta 9	6.41E-04	NM_053134
1393	Erc1	ELKS/RAB6-interacting/CAST family member 1	6.43E-04	NM_053204 /// NM_178085
1394	Nudt13	nudix (nucleoside diphosphate linked moiety X)-type motif 13	6.45E-04	NM_026341
1395	Bnip2	BCL2/adenovirus E1B interacting protein 2	6.47E-04	NM_001008238 /// NM_016787
1396	Il1rn	interleukin 1 receptor antagonist	6.49E-04	NM_001039701 /// NM_001159562 /// NM_031167
1397	Serf2	small EDRK-rich factor 2	6.50E-04	NM_011354
1398	Trim47	tripartite motif-containing 47	6.52E-04	NM_172570
1399	Osbpl9	oxysterol binding protein-like 9	6.55E-04	NM_001134791 /// NM_133885 /// NM_173350
1400	Rnasel	ribonuclease L (2', 5'-oligoadenylate synthetase-dependent)	6.57E-04	NM_011882
1401	Csnk2a2	casein kinase 2, alpha prime polypeptide	6.58E-04	NM_009974
1402	Sparc	secreted acidic cysteine rich glycoprotein	6.60E-04	NM_009242
1403	Tfrc	transferrin receptor	6.61E-04	NM_011638
1404	Cdh2	cadherin 2	6.61E-04	NM_007664
1405	Txn2	thioredoxin 2	6.62E-04	NM_019913
1406	Eri3	exoribonuclease 3	6.62E-04	NM_080469
1407	Pck2	phosphoenolpyruvate carboxykinase 2 (mitochondrial)	6.65E-04	NM_028994
1408	Il1b	interleukin 1 beta	6.68E-04	NM_008361
1409	Ncam1	neural cell adhesion molecule 1	6.69E-04	NM_001081445 /// NM_001113204 /// NM_010875
1410	Anp32e	acidic (leucine-rich) nuclear phosphoprotein 32 family, member E	6.70E-04	NM_023210
1411	Laptm4b	lysosomal-associated protein transmembrane 4B	6.70E-04	NM_033521
1412	Gba	glucosidase, beta, acid	6.71E-04	NM_001077411 /// NM_008094
1413	Rnasel	ribonuclease L (2', 5'-oligoadenylate synthetase-dependent)	6.71E-04	NM_011882
1414	Cct2	chaperonin containing Tcp1, subunit 2 (beta)	6.72E-04	NM_007636
1415	Ndufs4	NADH dehydrogenase (ubiquinone) Fe-S protein 4	6.83E-04	NM_010887
1416	Hap1	huntingtin-associated protein 1	6.87E-04	NM_010404 /// NM_177981
1417	Tmem185b	transmembrane protein 185B	6.88E-04	NM_146103
1418	Atxn7l1	ataxin 7-like 1	6.90E-04	NM_001033436 /// NM_028139
1419	Wfs1	Wolfram syndrome 1 homolog (human)	6.93E-04	NM_011716
1420	Tex15	testis expressed gene 15	6.96E-04	NM_031374
1421	Timp3	tissue inhibitor of metalloproteinase 3	6.97E-04	NM_011595
1422	Hira	histone cell cycle regulation defective homolog A (S. cerevisiae)	6.98E-04	NM_010435
1423	Leprot	leptin receptor overlapping transcript	6.99E-04	NM_175036

1424	Psrc1	proline/serine-rich coiled-coil 1	7.04E-04	NM_019976
1425	Prkra	protein kinase, interferon inducible double stranded RNA dependent activator	7.07E-04	NM_011871
1426	Lmbr1	limb region 1	7.07E-04	NM_020295
1427	Pkd2	polycystic kidney disease 2	7.10E-04	NM_008861
1428	Trappc10	trafficking protein particle complex 10	7.11E-04	NM_001081055
1429	Luzp1	leucine zipper protein 1	7.11E-04	NM_024452
1430	Gmppa	GDP-mannose pyrophosphorylase A	7.13E-04	NM_133708
1431	Tspyl4	TSPY-like 4	7.13E-04	NM_030203
1432	Cdk5rap1	CDK5 regulatory subunit associated protein 1	7.13E-04	NM_025876
1433	Gatad2a	GATA zinc finger domain containing 2A	7.14E-04	NM_001113345 /// NM_001113346 /// NM_145596
1434	Anapc5	anaphase-promoting complex subunit 5	7.15E-04	NM_001042491 /// NM_021505
1435	Nub1	negative regulator of ubiquitin-like proteins 1	7.20E-04	NM_016736
1436	Moxd1	monooxygenase, DBH-like 1	7.21E-04	NM_021509
1437	Akr1b3	aldo-keto reductase family 1, member B3 (aldose reductase)	7.22E-04	NM_009658
1438	Irs2	insulin receptor substrate 2	7.22E-04	NM_001081212
1439	Gtf3c6	general transcription factor IIIC, polypeptide 6, alpha	7.24E-04	NM_026113
1440	Hist1h2bc	histone cluster 1, H2bc	7.25E-04	NM_023422
1441	Anxa3	annexin A3	7.30E-04	NM_013470
1442	Cep250	centrosomal protein 250	7.31E-04	NM_001129999 /// NM_001130000 /// NM_008383 /// NM_177217
1443	Hnmt	histamine N-methyltransferase	7.33E-04	NM_080462
1444	Pex19	peroxisomal biogenesis factor 19	7.34E-04	NM_001159525 /// NM_023041
1445	Aldh4a1	aldehyde dehydrogenase 4 family, member A1	7.36E-04	NM_175438
1446	Nvl	nuclear VCP-like	7.36E-04	NM_026171
1447	Marcks	myristoylated alanine rich protein kinase C substrate	7.36E-04	NM_008538
1448	Pigh	phosphatidylinositol glycan anchor biosynthesis, class H	7.44E-04	NM_029988
1449	A2bp1	ataxin 2 binding protein 1	7.45E-04	NM_021477 /// NM_183188
1450	Ogfr1	opioid growth factor receptor-like 1	7.45E-04	NM_001081079
1451	Hbxlp	hepatitis B virus x interacting protein	7.46E-04	NM_026774 /// XM_001478151 /// XM_001478161 /// XM_001480844 /// XM_001480845
1452	BC017612	cDNA sequence BC017612	7.48E-04	NM_133214
1453	Ctnna1	catenin (cadherin associated protein), alpha 1	7.49E-04	NM_009818
1454	Tmem56	transmembrane protein 56	7.53E-04	NM_178936
1455	Atp5d	ATP synthase, H+ transporting, mitochondrial F1 complex, delta subunit	7.54E-04	NM_025313
1456	Ptgis	prostaglandin I2 (prostacyclin) synthase	7.56E-04	NM_008968
1457	Dlst	dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate complex)	7.60E-04	NM_030225
1458	Marcks1	MARCKS-like 1	7.62E-04	NM_010807
1459	S100a9	S100 calcium binding protein A9 (calgranulin B)	7.64E-04	NM_009114
1460	Pigt	phosphatidylinositol glycan anchor biosynthesis, class T	7.64E-04	NM_133779
1461	Pcolce	procollagen C-endopeptidase enhancer protein	7.66E-04	NM_008788
1462	Sumf1	sulfatase modifying factor 1	7.69E-04	NM_145937
1463	Mmp9	matrix metalloproteinase 9	7.70E-04	NM_013599
1464	Glul	glutamate-ammonia ligase (glutamine synthetase)	7.74E-04	NM_008131
1465	Luzp1	leucine zipper protein 1	7.75E-04	NM_024452
1466	Agrn	agrin	7.76E-04	NM_021604
1467	Ilf3	interleukin enhancer binding factor 3	7.76E-04	NM_001042707 /// NM_001042708 /// NM_001042709 /// NM_010561
1468	Serpini1	serine (or cysteine) peptidase inhibitor, clade I, member 1	7.77E-04	NM_009250
1469	Klf2	Kruppel-like factor 2 (lung)	7.82E-04	NM_008452

1470	Tmem106c	transmembrane protein 106C	7.84E-04	NM_201359
1471	Gm98	predicted gene 98	7.84E-04	NM_001033481 /// XM_359374 /// XM_888586 /// XM_981099
1472	Zkscan14	zinc finger with KRAB and SCAN domains 14	7.86E-04	NM_023322
1473	Iffo2	intermediate filament family orphan 2	7.87E-04	NM_183148
1474	Trim30	tripartite motif-containing 30	7.88E-04	NM_009099
1475	Pign	phosphatidylinositol glycan anchor biosynthesis, class N	7.92E-04	NM_013784
1476	Psmg3	proteasome (prosome, macropain) assembly chaperone 3	7.94E-04	NM_025604
1477	Entpd7	ectonucleoside triphosphate diphosphohydrolase 7	7.98E-04	NM_053103
1478	Fam111a	family with sequence similarity 111, member A	7.98E-04	NM_026640
1479	Ctss	cathepsin S	7.99E-04	NM_021281
1480	Coro2b	coronin, actin binding protein, 2B	8.02E-04	NM_175484
1481	Rnf123	ring finger protein 123	8.02E-04	NM_032543
1482	Bmpr1a	bone morphogenetic protein receptor, type 1A	8.03E-04	NM_009758
1483	Asxl1	additional sex combs like 1 (Drosophila)	8.05E-04	NM_001039939
1484	Pipox	pipecolic acid oxidase	8.10E-04	NM_008952
1485	Neat1	nuclear paraspeckle assembly transcript 1 (non-protein coding)	8.12E-04	NR_003513 /// XR_035481 /// XR_035482
1486	H2afx	H2A histone family, member X	8.12E-04	NM_010436
1487	Akr1b3	aldo-keto reductase family 1, member B3 (aldose reductase)	8.15E-04	NM_009658
1488	Rtp4	receptor transporter protein 4	8.20E-04	NM_023386
1489	Gm10333 /// Nutf2	predicted gene 10333 /// nuclear transport factor 2	8.20E-04	NM_026532 /// XM_001480585
1490	Scd2	stearoyl-Coenzyme A desaturase 2	8.21E-04	NM_009128
1491	Cdh2	cadherin 2	8.23E-04	NM_007664
1492	Krba1	KRAB-A domain containing 1	8.26E-04	NM_133922
1493	Tmem9	transmembrane protein 9	8.31E-04	NM_001160145 /// NM_001160146 /// NM_025439
1494	Igfbp7	insulin-like growth factor binding protein 7	8.32E-04	NM_001159518 /// NM_008048
1495	Inhbb /// LOC100046802	inhibin beta-B /// similar to Inhbb protein	8.34E-04	NM_008381 /// XM_001476835
1496	Nit2	nitrilase family, member 2	8.36E-04	NM_023175
1497	Agfg1	ArfGAP with FG repeats 1	8.38E-04	NM_010472
1498	Dst	dystonin	8.38E-04	NM_133833 /// NM_134448
1499	Lyve1	lymphatic vessel endothelial hyaluronan receptor 1	8.42E-04	NM_053247
1500	Zfp30	zinc finger protein 30	8.44E-04	NM_013705
1501	Vdac1	voltage-dependent anion channel 1	8.46E-04	NM_011694
1502	Slc38a1	solute carrier family 38, member 1	8.47E-04	NM_134086
1503	Fmod	fibromodulin	8.48E-04	NM_021355
1504	Lgtn	ligatin	8.52E-04	NM_001136070 /// NM_010709
1505	Copg2as2	coatamer protein complex, subunit gamma 2, antisense 2	8.54E-04	NR_002845 /// XM_001471930
1506	Traf6	TNF receptor-associated factor 6	8.55E-04	NM_009424 /// XM_001479093 /// XM_001479837
1507	Plbd2	phospholipase B domain containing 2	8.57E-04	NM_023625
1508	Foxp1	forkhead box P1	8.61E-04	NM_053202
1509	Slc44a2	solute carrier family 44, member 2	8.63E-04	NM_152808
1510	Ly86	lymphocyte antigen 86	8.64E-04	NM_010745
1511	Adamts10	a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin ty	8.65E-04	NM_172619
1512	Ywhaq	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta p	8.66E-04	NM_011739
1513	Rbm8a	RNA binding motif protein 8a	8.69E-04	NM_001102407 /// NM_025875
1514	Cotl1	coactosin-like 1 (Dictyostelium)	8.71E-04	NM_028071
1515	Bpnt1	bisphosphate 3'-nucleotidase 1	8.77E-04	NM_011794

1516	Nfix	nuclear factor I/X	8.77E-04	NM_001081981 /// NM_001081982 /// NM_010906
1517	Cct2	chaperonin containing Tcp1, subunit 2 (beta)	8.78E-04	NM_007636
1518	Fyb	FYN binding protein	8.81E-04	NM_011815
1519	Prmt7	protein arginine N-methyltransferase 7	8.83E-04	NM_145404
1520	Gm12501 /// LOC676549 /// S	SIVA1, apoptosis-inducing factor pseudogene /// similar to CD27-binding (Siva) p	8.84E-04	NM_001161737 /// NM_013929 /// XR_032348 /// XR_033889 /// XR_034306
1521	Pebp1	phosphatidylethanolamine binding protein 1	8.86E-04	NM_018858
1522	---	---	8.86E-04	---
1523	Zc3h11a	zinc finger CCCH type containing 11A	8.87E-04	NM_144530
1524	AF251705	cDNA sequence AF251705	8.88E-04	NM_134158
1525	Xbp1	X-box binding protein 1	8.88E-04	NM_013842
1526	Plat	plasminogen activator, tissue	8.89E-04	NM_008872
1527	Zfp451	zinc finger protein 451	8.91E-04	NM_133817
1528	Abca8a	ATP-binding cassette, sub-family A (ABC1), member 8a	8.95E-04	NM_153145
1529	Gm11847 /// Gm6793 /// Hnrnp	predicted gene 11847 /// heterogeneous nuclear ribonucleoprotein A3 pseudogene /	8.99E-04	NM_053263 /// NM_146130 /// NM_198090 /// XM_895041 /// XM_897632 //
1530	Ifi2712a	interferon, alpha-inducible protein 27 like 2A	9.00E-04	NM_029803
1531	Oxct1	3-oxoacid CoA transferase 1	9.01E-04	NM_024188
1532	H2-Eb1	histocompatibility 2, class II antigen E beta	9.03E-04	NM_010382
1533	Pttg1ip	pituitary tumor-transforming 1 interacting protein	9.04E-04	NM_145925
1534	Tes	testis derived transcript	9.16E-04	NM_011570 /// NM_207176
1535	Dnmt3b	DNA methyltransferase 3B	9.16E-04	NM_001003960 /// NM_001003961 /// NM_001003963 /// NM_001122997 ///
1536	Ercc8	excision repair/ross-complementing rodent repair deficiency, complementation group	9.17E-04	NM_028042
1537	Fn1	fibronectin 1	9.20E-04	NM_010233
1538	Lamp2	lysosomal-associated membrane protein 2	9.21E-04	NM_001017959 /// NM_010685
1539	LOC100047285 /// Prss29	similar to implantation serine proteinase 2 /// protease, serine, 29	9.21E-04	NM_053260 /// XM_001477507
1540	Vasn	vasorin	9.21E-04	NM_139307
1541	Stx17	syntaxin 17	9.25E-04	NM_026343
1542	Zc3h11a	zinc finger CCCH type containing 11A	9.25E-04	NM_144530
1543	1190002N15Rik /// LOC10004	RIKEN cDNA 1190002N15 gene /// hypothetical protein LOC100044725	9.31E-04	NM_001033145 /// XM_001472923
1544	Mettl7a1	methyltransferase like 7A1	9.31E-04	NM_027334
1545	Usp25	ubiquitin specific peptidase 25	9.32E-04	NM_013918
1546	Egfr	epidermal growth factor receptor	9.33E-04	NM_007912 /// NM_207655
1547	C1r	complement component 1, r subcomponent	9.42E-04	NM_023143
1548	Hnrnpu	heterogeneous nuclear ribonucleoprotein U	9.42E-04	NM_016805
1549	Zfp704	zinc finger protein 704	9.44E-04	NM_133218
1550	Mrpl44	mitochondrial ribosomal protein L44	9.44E-04	NM_001081210
1551	Ak1	adenylate kinase 1	9.45E-04	NM_021515
1552	Ccnh	cyclin H	9.46E-04	NM_023243
1553	Wdtd1	WD and tetratricopeptide repeats 1	9.46E-04	NM_199306
1554	Copa	coatamer protein complex subunit alpha	9.47E-04	NM_009938
1555	Zdhhc3	zinc finger, DHHC domain containing 3	9.47E-04	NM_026917
1556	Prdm5	PR domain containing 5	9.48E-04	NM_027547
1557	BC003331	cDNA sequence BC003331	9.51E-04	NM_001077237 /// NM_145511
1558	Ssbp3	single-stranded DNA binding protein 3	9.52E-04	NM_023672 /// NM_198438
1559	C1galt1	core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase	9.56E-04	NM_052993
1560	Atp10a	ATPase, class V, type 10A	9.58E-04	NM_009728
1561	9430016H08Rik	RIKEN cDNA 9430016H08 gene	9.58E-04	NM_001081181 /// XM_001478981 /// XM_907464

1562	Dgcr2	DiGeorge syndrome critical region gene 2	9.60E-04	NM_001109750 /// NM_010048
1563	Cd44	CD44 antigen	9.62E-04	NM_001039150 /// NM_001039151 /// NM_009851
1564	Rnf160	ring finger protein 160	9.62E-04	NM_001081068
1565	Kcnab3	potassium voltage-gated channel, shaker-related subfamily, beta member 3	9.63E-04	NM_010599
1566	Nxn	nucleoredoxin	9.66E-04	NM_008750
1567	Runx1	runt related transcription factor 1	9.70E-04	NM_001111021 /// NM_001111022 /// NM_001111023 /// NM_009821
1568	Inpp5k	inositol polyphosphate 5-phosphatase K	9.73E-04	NM_008916
1569	Mgll	monoglyceride lipase	9.75E-04	NM_011844
1570	Mll1	myeloid/lymphoid or mixed-lineage leukemia 1	9.76E-04	NM_001081049
1571	Fhdc1	FH2 domain containing 1	9.79E-04	NM_001033301
1572	Ric8	resistance to inhibitors of cholinesterase 8 homolog (C. elegans)	9.81E-04	NM_053194
1573	Galnt4	UDP-N-acetyl-alpha-D-galactosamine: polypeptide N-acetylgalactosaminyltransferase	9.82E-04	NM_015737
1574	Aspm	asp (abnormal spindle)-like, microcephaly associated (Drosophila)	9.85E-04	NM_009791
1575	Actg1	actin, gamma, cytoplasmic 1	9.85E-04	NM_009609
1576	Twsg1	twisted gastrulation homolog 1 (Drosophila)	9.87E-04	NM_023053
1577	Ywhae	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon	9.87E-04	NM_009536
1578	Gng12	guanine nucleotide binding protein (G protein), gamma 12	9.87E-04	NM_025278
1579	Glo1	glyoxalase 1	9.88E-04	NM_001113560 /// NM_025374
1580	Dgcr8	DiGeorge syndrome critical region gene 8	9.91E-04	NM_033324
1581	Slc2a8	solute carrier family 2, (facilitated glucose transporter), member 8	9.93E-04	NM_019488
1582	Gosr1	golgi SNAP receptor complex member 1	9.93E-04	NM_016810
1583	Eid1	EP300 interacting inhibitor of differentiation 1	9.96E-04	NM_025613
1584	Ficd	FIC domain containing	9.96E-04	NM_001010825
1585	Ltbp3	latent transforming growth factor beta binding protein 3	9.99E-04	NM_008520
1586	Rras	Harvey rat sarcoma oncogene, subgroup R	1.00E-03	NM_009101
1587	Fads3	fatty acid desaturase 3	1.00E-03	NM_021890
1588	Atp5j	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit F	1.00E-03	NM_016755
1589	Calr	calreticulin	1.00E-03	NM_007591
1590	Pdgfrb	platelet derived growth factor receptor, beta polypeptide	1.01E-03	NM_001146268 /// NM_008809
1591	Cnn2	calponin 2	1.01E-03	NM_007725
1592	Adpgk	ADP-dependent glucokinase	1.01E-03	NM_028121
1593	Pl4k2a	phosphatidylinositol 4-kinase type 2 alpha	1.01E-03	NM_145501
1594	Zfp451	zinc finger protein 451	1.01E-03	NM_133817
1595	Tmub2	transmembrane and ubiquitin-like domain containing 2	1.01E-03	NM_028076
1596	Abcg5	ATP-binding cassette, sub-family G (WHITE), member 5	1.02E-03	NM_031884
1597	Zfp105	zinc finger protein 105	1.02E-03	NM_009544
1598	Skil	SKI-like	1.02E-03	NM_001039090 /// NM_011386
1599	Zfand2b	zinc finger, AN1 type domain 2B	1.03E-03	NM_001159905 /// NM_001159906 /// NM_026846
1600	4930579J09Rik	RIKEN cDNA 4930579J09 gene	1.03E-03	NM_133689
1601	Thyn1	thymocyte nuclear protein 1	1.03E-03	NM_144543
1602	Cugbp2	CUG triplet repeat, RNA binding protein 2	1.03E-03	NM_001110228 /// NM_001110229 /// NM_001110230 /// NM_001110231 ///
1603	Orc6l	origin recognition complex, subunit 6-like (S. cerevisiae)	1.03E-03	NM_001163791 /// NM_019716 /// NR_028268
1604	Gm11263 /// Gm13654 /// LOC	predicted gene 11263 /// predicted gene 13654 /// similar to ribosomal protein S	1.03E-03	NM_009096 /// XM_001003926 /// XM_001480836 /// XM_001480838 /// XM_
1605	Arpc1b	actin related protein 2/3 complex, subunit 1B	1.04E-03	NM_023142
1606	Sdc2	syndecan 2	1.04E-03	NM_008304
1607	Ap3s2	adaptor-related protein complex 3, sigma 2 subunit	1.04E-03	NM_009682

1608	BC006779	cDNA sequence BC006779	1.04E-03	NM_183162
1609	Rhbdd1	rhombooid domain containing 1	1.04E-03	NM_001122685 /// NM_029777
1610	Hspa14	heat shock protein 14	1.04E-03	NM_015765
1611	Bcl2l15	BCL2l-like 15	1.04E-03	NM_001142959 /// NM_001142960 /// XR_002337 /// XR_005162 /// XR_035
1612	Cetn2	centrin 2	1.05E-03	NM_019405
1613	Pad14	peptidyl arginine deiminase, type IV	1.05E-03	NM_011061
1614	Slc44a1	solute carrier family 44, member 1	1.05E-03	NM_001159633 /// NM_133891
1615	Srpr	signal recognition particle receptor ('docking protein')	1.05E-03	NM_026130
1616	Tgfb2	transforming growth factor, beta receptor II	1.05E-03	NM_009371 /// NM_029575
1617	Nfe2l2	nuclear factor, erythroid derived 2, like 2	1.05E-03	NM_010902
1618	Dtnbp1	dystrobrevin binding protein 1	1.05E-03	NM_025772
1619	Myadm	myeloid-associated differentiation marker	1.05E-03	NM_001093764 /// NM_001093765 /// NM_001093766 /// NM_016969
1620	Pnpla2	patatin-like phospholipase domain containing 2	1.06E-03	NM_001163689 /// NM_025802 /// NR_028142
1621	Iqgap1	IQ motif containing GTPase activating protein 1	1.06E-03	NM_016721
1622	Siae	sialic acid acetyltransferase	1.06E-03	NM_011734
1623	Ldha	lactate dehydrogenase A	1.06E-03	NM_001136069 /// NM_010699
1624	Cyp2e1	cytochrome P450, family 2, subfamily e, polypeptide 1	1.06E-03	NM_021282
1625	Itpr3	inositol 1,4,5-triphosphate receptor 3	1.06E-03	NM_080553
1626	Cd151	CD151 antigen	1.06E-03	NM_001111049 /// NM_001111050 /// NM_009842
1627	Wasl	Wiskott-Aldrich syndrome-like (human)	1.06E-03	NM_028459
1628	Ifngr1	interferon gamma receptor 1	1.07E-03	NM_010511
1629	Ywhab	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta pe	1.07E-03	NM_018753
1630	Ripk4	receptor-interacting serine-threonine kinase 4	1.07E-03	NM_023663
1631	Cpe /// LOC100046434	carboxypeptidase E /// similar to carboxypeptidase E	1.09E-03	NM_013494 /// XM_001476197
1632	Ankrd6	ankyrin repeat domain 6	1.09E-03	NM_001012450 /// NM_001012451 /// NM_080471
1633	Ipo8	importin 8	1.09E-03	NM_001081113
1634	Nek2	NIMA (never in mitosis gene a)-related expressed kinase 2	1.09E-03	NM_010892
1635	Irak4	interleukin-1 receptor-associated kinase 4	1.10E-03	NM_029926
1636	Ccng1	cyclin G1	1.10E-03	NM_009831
1637	Tmem186	transmembrane protein 186	1.10E-03	NM_025708
1638	Z610101N10Rik	RIKEN cDNA Z610101N10 gene	1.10E-03	NM_001114977 /// NM_026476
1639	Kif13a	kinesin family member 13A	1.10E-03	NM_010617
1640	Mapk8	mitogen-activated protein kinase 8	1.10E-03	NM_016700
1641	Vim	vimentin	1.10E-03	NM_011701
1642	Laptm4a	lysosomal-associated protein transmembrane 4A	1.11E-03	NM_008640
1643	Csf1	colony stimulating factor 1 (macrophage)	1.11E-03	NM_001113529 /// NM_001113530 /// NM_007778
1644	Rabgap1l	RAB GTPase activating protein 1-like	1.12E-03	NM_001038621 /// NM_013862
1645	Ccl3	chemokine (C-C motif) ligand 3	1.13E-03	NM_011337
1646	Grina	glutamate receptor, ionotropic, N-methyl D-aspartate-associated protein 1 (gluta	1.13E-03	NM_023168
1647	Atp6v1g1 /// LOC638149	ATPase, H+ transporting, lysosomal V1 subunit G1 /// similar to ATPase, H+ trans	1.13E-03	NM_024173 /// XR_033821
1648	Slc15a4	solute carrier family 15, member 4	1.13E-03	NM_133895
1649	Tuba1a	tubulin, alpha 1A	1.13E-03	NM_011653
1650	Scd2	stearoyl-Coenzyme A desaturase 2	1.14E-03	NM_009128
1651	Sorbs1	sorbin and SH3 domain containing 1	1.14E-03	NM_001034962 /// NM_001034963 /// NM_001034964 /// NM_009166 /// NM
1652	Wwp1	WW domain containing E3 ubiquitin protein ligase 1	1.14E-03	NM_177327
1653	Ptges	prostaglandin E synthase	1.14E-03	NM_022415

1654	Clstn1	calsyntenin 1	1.14E-03	NM_023051
1655	Ctdspl	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase	1.15E-03	NM_133710
1656	Ero1lb	ERO1-like beta (<i>S. cerevisiae</i>)	1.15E-03	NM_026184
1657	Bcar1	breast cancer anti-estrogen resistance 1	1.15E-03	NM_009954
1658	Hmgb2	high mobility group box 2	1.15E-03	NM_008252
1659	Igk	immunoglobulin kappa chain complex	1.15E-03	---
1660	Txnip	thioredoxin interacting protein	1.15E-03	NM_001009935 /// NM_023719
1661	Ublcp1	ubiquitin-like domain containing CTD phosphatase 1	1.15E-03	NM_024475
1662	Tfrc	transferrin receptor	1.16E-03	NM_011638
1663	Fth1	ferritin heavy chain 1	1.16E-03	NM_010239
1664	Wdr81	WD repeat domain 81	1.16E-03	NM_138950 /// XM_001002633 /// XM_911699
1665	Parva	parvin, alpha	1.16E-03	NM_020606
1666	Tulp4	Tubby like protein 4	1.17E-03	NM_001033529 /// NM_001103181 /// NM_054040
1667	Btg3 /// Gm7334	B-cell translocation gene 3 /// B-cell translocation gene 3 pseudogene	1.17E-03	NM_009770 /// NR_002700
1668	Fgf7	fibroblast growth factor 7	1.17E-03	NM_008008
1669	Jak1	Janus kinase 1	1.18E-03	NM_146145
1670	Sfrp2	secreted frizzled-related protein 2	1.18E-03	NM_009144
1671	Pdk4	pyruvate dehydrogenase kinase, isoenzyme 4	1.18E-03	NM_013743
1672	Jam2	junction adhesion molecule 2	1.18E-03	NM_023844
1673	Arpp21	cyclic AMP-regulated phosphoprotein, 21	1.18E-03	NM_028755 /// NM_033264
1674	Dnaja4	DnaJ (Hsp40) homolog, subfamily A, member 4	1.18E-03	NM_021422
1675	Fcrls	Fc receptor-like 5, scavenger receptor	1.18E-03	NM_030707
1676	Gja1	gap junction protein, alpha 1	1.19E-03	NM_010288
1677	ApoE	apolipoprotein E	1.19E-03	NM_009696
1678	LOC100047839 /// Tomm6	hypothetical protein LOC100047839 /// translocase of outer mitochondrial membrane	1.20E-03	NM_025365 /// XM_001479252
1679	Macf1	microtubule-actin crosslinking factor 1	1.20E-03	NM_009600 /// XM_001472676 /// XM_001472697 /// XM_001472723 /// XM
1680	---	---	1.20E-03	---
1681	1110003E01Rik	RIKEN cDNA 1110003E01 gene	1.20E-03	NM_133697
1682	BC021614	cDNA sequence BC021614	1.20E-03	NM_144869
1683	Nub1	negative regulator of ubiquitin-like proteins 1	1.21E-03	NM_016736
1684	Lasp1	LIM and SH3 protein 1	1.21E-03	NM_010688
1685	Dkk3	dickkopf homolog 3 (<i>Xenopus laevis</i>)	1.21E-03	NM_015814
1686	Enah	enabled homolog (<i>Drosophila</i>)	1.22E-03	NM_001083120 /// NM_001083121 /// NM_008680 /// NM_010135
1687	Slc37a2	solute carrier family 37 (glycerol-3-phosphate transporter), member 2	1.22E-03	NM_001145960 /// NM_020258
1688	Tsc22d1	TSC22 domain family, member 1	1.22E-03	NM_009366 /// NM_207652
1689	Myo1d	myosin ID	1.22E-03	NM_177390
1690	Hist1h2bp	histone cluster 1, H2bp	1.23E-03	NM_178202
1691	Psmc6	proteasome (prosome, macropain) 26S subunit, ATPase, 6	1.23E-03	NM_025959
1692	Aak1	AP2 associated kinase 1	1.23E-03	NM_001040106 /// NM_177762
1693	Rai1	retinoic acid induced 1	1.24E-03	NM_001037764 /// NM_009021
1694	Msr1	macrophage scavenger receptor 1	1.24E-03	NM_001113326 /// NM_031195
1695	Tjp2	tight junction protein 2	1.24E-03	NM_011597
1696	C230094A16Rik	RIKEN cDNA C230094A16 gene	1.25E-03	NM_146016
1697	Mapk3	mitogen-activated protein kinase 3	1.25E-03	NM_011952
1698	Ddx26b	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 26B	1.26E-03	NM_172779
1699	Ptpn12	protein tyrosine phosphatase, non-receptor type 12	1.26E-03	NM_011203

1700	Pkig	protein kinase inhibitor, gamma	1.26E-03	NM_001039390 /// NM_001039391 /// NM_001164053 /// NM_001164055 ///
1701	AI316807	expressed sequence AI316807	1.27E-03	NM_001012667 /// NM_001146117
1702	Zdhhc14	zinc finger, DHHC domain containing 14	1.28E-03	NM_146073
1703	Tmpo	thymopoietin	1.28E-03	NM_001080129 /// NM_001080130 /// NM_001080131 /// NM_001080132 ///
1704	Ube2t	ubiquitin-conjugating enzyme E2T (putative)	1.28E-03	NM_026024
1705	Ptpn13	protein tyrosine phosphatase, non-receptor type 13	1.28E-03	NM_011204
1706	D2hgdh	D-2-hydroxyglutarate dehydrogenase	1.28E-03	NM_178882
1707	Tfpi	tissue factor pathway inhibitor	1.28E-03	NM_011576
1708	Slc39a1	solute carrier family 39 (zinc transporter), member 1	1.29E-03	NM_013901
1709	Tcta	T-cell leukemia translocation altered gene	1.29E-03	NM_133986
1710	Fam63a	family with sequence similarity 63, member A	1.29E-03	NM_133858
1711	Kpnb1	karyopherin (importin) beta 1	1.30E-03	NM_008379
1712	Tmem98	transmembrane protein 98	1.30E-03	NM_029537
1713	Ppp2r5a	protein phosphatase 2, regulatory subunit B (B56), alpha isoform	1.30E-03	NM_144880 /// XM_001476699
1714	Gpr177	G protein-coupled receptor 177	1.30E-03	NM_026582
1715	Ero1l /// Rpl31	ERO1-like (S. cerevisiae) /// ribosomal protein L31	1.30E-03	NM_015774 /// NM_053257
1716	Klhdc3	kelch domain containing 3	1.30E-03	NM_001163729 /// NM_027910
1717	Gba	glucosidase, beta, acid	1.30E-03	NM_001077411 /// NM_008094
1718	Dleu2	deleted in lymphocytic leukemia, 2	1.30E-03	NR_028264 /// XM_001000367 /// XM_981454
1719	Cp	ceruloplasmin	1.31E-03	NM_001042611 /// NM_007752
1720	Pot1a	protection of telomeres 1A	1.31E-03	NM_133931
1721	Nampt	nicotinamide phosphoribosyltransferase	1.31E-03	NM_021524
1722	Ssr4	signal sequence receptor, delta	1.31E-03	NM_009279
1723	Cyfp1	cytoplasmic FMR1 interacting protein 1	1.31E-03	NM_011370
1724	Fcgr2b	Fc receptor, IgG, low affinity IIb	1.32E-03	NM_001077189 /// NM_010187
1725	Orc2l	origin recognition complex, subunit 2-like (S. cerevisiae)	1.32E-03	NM_001025378 /// NM_008765
1726	Rp2h	retinitis pigmentosa 2 homolog (human)	1.32E-03	NM_133669
1727	Usp22	ubiquitin specific peptidase 22	1.32E-03	NM_001004143
1728	Paxip1	PAX interacting (with transcription-activation domain) protein 1	1.32E-03	NM_018878
1729	Slc22a17	solute carrier family 22 (organic cation transporter), member 17	1.32E-03	NM_021551
1730	Rbm14	RNA binding motif protein 14	1.33E-03	NM_019869
1731	D10Ert641e	DNA segment, Chr 10, ERATO Doi 641, expressed	1.33E-03	NM_025514
1732	Tgfb2	transforming growth factor, beta 2	1.33E-03	NM_009367
1733	Prelp	proline arginine-rich end leucine-rich repeat	1.33E-03	NM_054077
1734	Kpnb1	karyopherin (importin) beta 1	1.34E-03	NM_008379
1735	Zcchc18	zinc finger, CCHC domain containing 18	1.34E-03	NM_001035509 /// NM_001035510 /// NM_025893
1736	Adam17	a disintegrin and metallopeptidase domain 17	1.34E-03	NM_009615
1737	Hist1h2bc /// Hist1h2be /// Hist1h2bf	histone cluster 1, H2bc /// histone cluster 1, H2be /// histone cluster 1, H2bf	1.35E-03	NM_001097979 /// NM_001110555 /// NM_023422 /// NM_178194 /// NM_178195 ///
1738	Cd55	CD55 antigen	1.35E-03	NM_010016
1739	Csprs /// Gm2666 /// Gm7582	component of Sp100-rs /// predicted gene 2666 /// predicted gene 7582	1.35E-03	NM_033616 /// XM_001474231 /// XM_001474245 /// XM_979163
1740	Abcg4	ATP-binding cassette, sub-family G (WHITE), member 4	1.36E-03	NM_138955
1741	Irgm2	immunity-related GTPase family M member 2	1.36E-03	NM_019440
1742	Bcl2l14	BCL2-like 14 (apoptosis facilitator)	1.36E-03	NM_025778
1743	Cd302	CD302 antigen	1.36E-03	NM_025422
1744	Hpgd	hydroxyprostaglandin dehydrogenase 15 (NAD)	1.37E-03	NM_008278
1745	Clasp2	CLIP associating protein 2	1.37E-03	NM_001081960 /// NM_001114347 /// NM_029633

1746	Ascc1	activating signal cointegrator 1 complex subunit 1	1.37E-03	NM_026937
1747	Slc16a1	solute carrier family 16 (monocarboxylic acid transporters), member 1	1.37E-03	NM_009196
1748	Rab34	RAB34, member of RAS oncogene family	1.37E-03	NM_001159482 /// NM_033475
1749	Ccng2	cyclin G2	1.37E-03	NM_007635
1750	Arhgef18	rho/rac guanine nucleotide exchange factor (GEF) 18	1.38E-03	NM_133962
1751	Zdhhc14	zinc finger, DHHC domain containing 14	1.38E-03	NM_146073
1752	Rhou	ras homolog gene family, member U	1.38E-03	NM_133955
1753	2310007H09RIK	RIKEN cDNA 2310007H09 gene	1.38E-03	NM_029609
1754	Gcnt2	glucosaminyl (N-acetyl) transferase 2, I-branching enzyme	1.38E-03	NM_008105 /// NM_023887 /// NM_133219
1755	Tmtc4	transmembrane and tetratricopeptide repeat containing 4	1.38E-03	NM_028651
1756	Rnf11	ring finger protein 11	1.38E-03	NM_013876
1757	Blzf1	basic leucine zipper nuclear factor 1	1.39E-03	NM_001160208 /// NM_001160209 /// NM_025505
1758	Rras2	related RAS viral (r-ras) oncogene homolog 2	1.39E-03	NM_025846
1759	Ung	uracil DNA glycosylase	1.39E-03	NM_001040691 /// NM_011677
1760	Tpm4	tropomyosin 4	1.40E-03	NM_001001491
1761	Pck2	phosphoenolpyruvate carboxykinase 2 (mitochondrial)	1.40E-03	NM_028994
1762	B230308N11RIK	RIKEN cDNA B230308N11 gene	1.40E-03	---
1763	Gramd3	GRAM domain containing 3	1.40E-03	NM_026240
1764	---	---	1.40E-03	---
1765	BC005685	cDNA sequence BC005685	1.40E-03	---
1766	Trmt112	tRNA methyltransferase 11-2 homolog (S. cerevisiae)	1.41E-03	NM_026306
1767	Gmppa	GDP-mannose pyrophosphorylase A	1.41E-03	NM_133708
1768	Synpo	synaptopodin	1.41E-03	NM_001109975 /// NM_177340 /// XM_001479956 /// XM_001479958 /// XM
1769	H2-Aa	histocompatibility 2, class II antigen A, alpha	1.41E-03	NM_010378
1770	Pp11r	placental protein 11 related	1.41E-03	NM_008902
1771	Nle1	notchless homolog 1 (Drosophila)	1.42E-03	NM_145431
1772	Lrp1	low density lipoprotein receptor-related protein 1	1.42E-03	NM_008512
1773	4930547C10RIK	RIKEN cDNA 4930547C10 gene	1.42E-03	NM_026652
1774	Pip5k1c	phosphatidylinositol-4-phosphate 5-kinase, type 1 gamma	1.42E-03	NM_001146687 /// NM_008844
1775	Sephs2	selenophosphate synthetase 2	1.42E-03	NM_009266
1776	Pdpm	podoplanin	1.42E-03	NM_010329
1777	D4Wsu53e	DNA segment, Chr 4, Wayne State University 53, expressed	1.42E-03	NM_023665
1778	Pla2g7	phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma)	1.43E-03	NM_013737
1779	Spock2	sparc/osteonectin, cwcv and kazal-like domains proteoglycan 2	1.44E-03	NM_052994
1780	Sh3tc1	SH3 domain and tetratricopeptide repeats 1	1.44E-03	NM_194344
1781	Tnfrsf1b	tumor necrosis factor receptor superfamily, member 1b	1.45E-03	NM_011610
1782	Plxdc2	plexin domain containing 2	1.45E-03	NM_026162
1783	Dnaja3	DnaJ (Hsp40) homolog, subfamily A, member 3	1.46E-03	NM_001135112 /// NM_023646
1784	Clic4	chloride intracellular channel 4 (mitochondrial)	1.46E-03	NM_013885
1785	Cttn	cortactin	1.46E-03	NM_007803
1786	Wwtr1	WW domain containing transcription regulator 1	1.46E-03	NM_133784
1787	Col5a2	collagen, type V, alpha 2	1.46E-03	NM_007737
1788	Pplb	peptidylprolyl isomerase B	1.46E-03	NM_011149
1789	Ms4a4d	membrane-spanning 4-domains, subfamily A, member 4D	1.47E-03	NM_025658
1790	Slc24a6	solute carrier family 24 (sodium/potassium/calcium exchanger), member 6	1.47E-03	NM_133221
1791	Mfsd6	major facilitator superfamily domain containing 6	1.47E-03	NM_133829 /// NM_178081

1792	Snx3	sorting nexin 3	1.47E-03	NM_017472
1793	Abcd3	ATP-binding cassette, sub-family D (ALD), member 3	1.48E-03	NM_008991
1794	Crispld1	cysteine-rich secretory protein LCCL domain containing 1	1.49E-03	NM_031402
1795	Rcvrn	recoverin	1.49E-03	NM_009038
1796	Stard5	STAR-related lipid transfer (START) domain containing 5	1.50E-03	NM_023377
1797	Vps45	vacuolar protein sorting 45 (yeast)	1.50E-03	NM_013841
1798	Meg3	maternally expressed 3	1.50E-03	NR_003633 /// NR_027651 /// NR_027652 /// XR_035480 /// XR_035483 ///
1799	Cacna2d2	calcium channel, voltage-dependent, alpha 2/delta subunit 2	1.50E-03	NM_020263
1800	Pabpn1	poly(A) binding protein, nuclear 1	1.51E-03	NM_019402
1801	Pcdhb22	protocadherin beta 22	1.51E-03	NM_053147
1802	Lpgat1	lysophosphatidylglycerol acyltransferase 1	1.52E-03	NM_001134829 /// NM_172266
1803	Usp45	ubiquitin specific peptidase 45	1.52E-03	NM_152825
1804	LOC100045866 /// Tceb1	similar to elongation factor SIII p15 subunit /// transcription elongation facto	1.52E-03	NM_026456 /// XM_001475337
1805	9530028C05	hypothetical protein 9530028C05	1.52E-03	---
1806	Wwc2	WW, C2 and coiled-coil domain containing 2	1.52E-03	NM_133791
1807	Trim41	tripartite motif-containing 41	1.52E-03	NM_145377 /// XM_001475465
1808	Slc11a2	solute carrier family 11 (proton-coupled divalent metal ion transporters), membe	1.52E-03	NM_001146161 /// NM_008732
1809	Inpp5d	inositol polyphosphate-5-phosphatase D	1.53E-03	NM_001110192 /// NM_001110193 /// NM_010566
1810	Pafah1b2	platelet-activating factor acetylhydrolase, isoform 1b, subunit 2	1.53E-03	NM_008775
1811	Psmg1	proteasome (prosome, macropain) assembly chaperone 1	1.54E-03	NM_019537
1812	Cnot6l	CCR4-NOT transcription complex, subunit 6-like	1.54E-03	NM_144910 /// NM_178854
1813	Pvr	poliovirus receptor	1.54E-03	NM_027514
1814	Sc5d	sterol-C5-desaturase (fungal ERG3, delta-5-desaturase) homolog (S. cerevisiae)	1.54E-03	NM_172769
1815	LOC100047162 /// LOC676175	similar to immunoglobulin kappa-chain /// similar to Ig kappa chain V-V region M	1.55E-03	XM_001477552 /// XM_987914
1816	LOC100047093 /// Ube2h	similar to Ubiquitin-conjugating enzyme UbcH2 /// ubiquitin-conjugating enzyme E	1.55E-03	NM_009459 /// XM_001477372
1817	Hspa1b	heat shock protein 1B	1.55E-03	NM_010478
1818	Ggta1	glycoprotein galactosyltransferase alpha 1, 3	1.56E-03	NM_001145821 /// NM_010283
1819	Tpi1	triosephosphate isomerase 1	1.56E-03	NM_009415
1820	Osmr	oncostatin M receptor	1.56E-03	NM_011019
1821	Fcgrt	Fc receptor, IgG, alpha chain transporter	1.56E-03	NM_010189
1822	Cd84	CD84 antigen	1.56E-03	NM_013489
1823	Bpnt1	bisphosphate 3'-nucleotidase 1	1.56E-03	NM_011794
1824	Spred2	sprouty-related, EVH1 domain containing 2	1.57E-03	NM_033523
1825	Psmc3	proteasome (prosome, macropain) 28 subunit, 3	1.57E-03	NM_011192
1826	Slc6a20a	solute carrier family 6 (neurotransmitter transporter), member 20A	1.57E-03	NM_139142
1827	Pak1ip1	PAK1 interacting protein 1	1.58E-03	NM_026550
1828	Abhd12	abhydrolase domain containing 12	1.58E-03	NM_024465
1829	Gbp6	guanylate binding protein 6	1.58E-03	NM_001083312 /// NM_145545
1830	Ppt1	palmitoyl-protein thioesterase 1	1.59E-03	NM_008917
1831	Tmem205	transmembrane protein 205	1.59E-03	NM_178577
1832	Gm7204 /// Prdx1	peroxiredoxin 1pseudogene /// peroxiredoxin 1	1.59E-03	NM_011034 /// XM_001003388 /// XM_917437
1833	Speer4f	spermatogenesis associated glutamate (E)-rich protein 4f	1.59E-03	NM_027609
1834	Mrp15	mitochondrial ribosomal protein L15	1.60E-03	NM_025300
1835	Pgd	phosphogluconate dehydrogenase	1.60E-03	NM_001081274
1836	Myo1c	myosin IC	1.60E-03	NM_001080774 /// NM_001080775 /// NM_008659
1837	Ccr9	chemokine (C-C motif) receptor 9	1.60E-03	NM_009913

1838	Itgb1	integrin beta 1 (fibronectin receptor beta)	1.60E-03	NM_010578
1839	Tmem2	transmembrane protein 2	1.60E-03	NM_001033759 /// NM_031997
1840	2310061104Rik	RIKEN cDNA 2310061104 gene	1.60E-03	NM_001033630 /// XM_001002280 /// XM_128627
1841	Ndn	necdin	1.60E-03	NM_010882
1842	Usp24	ubiquitin specific peptidase 24	1.61E-03	XM_001473472 /// XM_001479517 /// XM_001481281 /// XM_915524
1843	2310039H08Rik	RIKEN cDNA 2310039H08 gene	1.61E-03	NM_025966
1844	Dab2	disabled homolog 2 (Drosophila)	1.62E-03	NM_001008702 /// NM_001037905 /// NM_001102400 /// NM_023118
1845	Foxq1	forkhead box Q1	1.62E-03	NM_008239
1846	Cndp2	CNDP dipeptidase 2 (metallopeptidase M20 family)	1.62E-03	NM_023149
1847	Gstm2	glutathione S-transferase, mu 2	1.62E-03	NM_008183
1848	Irf8	interferon regulatory factor 8	1.62E-03	NM_008320
1849	Ndufaf3	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, assembly factor 3	1.62E-03	NM_023247
1850	Xrn1	5'-3' exoribonuclease 1	1.63E-03	NM_011916
1851	Fgfr4	fibroblast growth factor receptor 4	1.63E-03	NM_008011
1852	Zfp706	zinc finger protein 706	1.63E-03	NM_026521
1853	Enox2	ecto-NOX disulfide-thiol exchanger 2	1.63E-03	NM_145951
1854	Etl4	enhancer trap locus 4	1.64E-03	NM_001081006
1855	D0H4S114	DNA segment, human D4S114	1.64E-03	NM_001109988 /// NM_001109989 /// NM_001109990 /// NM_053078
1856	Atp6v0a1	ATPase, H+ transporting, lysosomal VO subunit A1	1.65E-03	NM_016920
1857	Bmi1	Bmi1 polycomb ring finger oncogene	1.65E-03	NM_007552
1858	Ap2b1	adaptor-related protein complex 2, beta 1 subunit	1.66E-03	NM_001035854 /// NM_027915
1859	Slc35e4	solute carrier family 35, member E4	1.66E-03	NM_153142
1860	Fastkd2	FAST kinase domains 2	1.66E-03	NM_172422
1861	LOC100045567 /// Pnp1 /// Pnp1	similar to purine nucleoside phosphorylase /// purine-nucleoside phosphorylase 1	1.67E-03	NM_001123371 /// NM_013632 /// XM_001474536 /// XM_992876 /// XM_992877
1862	Fam107b	family with sequence similarity 107, member B	1.67E-03	NM_025626
1863	Mettl7a1	methyltransferase like 7A1	1.67E-03	NM_027334
1864	Slc35a4	solute carrier family 35, member A4	1.67E-03	NM_001083317 /// NM_026404
1865	Dock1	dedicator of cytokinesis 1	1.67E-03	NM_001033420
1866	Crygb /// Crygc	crystallin, gamma B /// crystallin, gamma C	1.68E-03	NM_001082573 /// NM_007775 /// NM_144761
1867	Capza1	capping protein (actin filament) muscle Z-line, alpha 1	1.68E-03	NM_009797
1868	Aldh8a1	aldehyde dehydrogenase 8 family, member A1	1.69E-03	NM_178713
1869	Ppp6c	protein phosphatase 6, catalytic subunit	1.70E-03	NM_024209
1870	Trps1	trichorhinophalangeal syndrome I (human)	1.70E-03	NM_032000
1871	Kpna4	karyopherin (importin) alpha 4	1.70E-03	NM_008467
1872	Hnnpab	heterogeneous nuclear ribonucleoprotein A/B	1.71E-03	NM_001048061 /// NM_010448
1873	Wipi1	WD repeat domain, phosphoinositide interacting 1	1.71E-03	NM_145940
1874	Calm1	calmodulin 1	1.72E-03	NM_009790
1875	Efs	Embryonal Fyn-associated substrate	1.72E-03	NM_010112
1876	Dck	deoxycytidine kinase	1.73E-03	NM_007832
1877	Impdh1	inosine 5'-phosphate dehydrogenase 1	1.73E-03	NM_011829
1878	Apol9a /// Apol9b	apolipoprotein L 9a /// apolipoprotein L 9b	1.73E-03	NM_001162883 /// NM_173743 /// NM_173786 /// XM_128064 /// XM_911305
1879	Foxo3	forkhead box O3	1.73E-03	NM_019740
1880	Crim1	cysteine rich transmembrane BMP regulator 1 (chordin like)	1.73E-03	NM_015800
1881	Pkm2	pyruvate kinase, muscle	1.73E-03	NM_011099
1882	Hexim1	hexamethylene bis-acetamide inducible 1	1.74E-03	NM_138753
1883	Rpl10	ribosomal protein 10	1.74E-03	NM_052835

1884	Arid1a	AT rich interactive domain 1A (SWI-like)	1.74E-03	NM_001080819
1885	Slc30a1	solute carrier family 30 (zinc transporter), member 1	1.75E-03	NM_009579
1886	Tor3a	torsin family 3, member A	1.75E-03	NM_023141
1887	Afp	alpha fetoprotein	1.75E-03	NM_007423
1888	Kctd2	potassium channel tetramerisation domain containing 2	1.75E-03	NM_183285
1889	Aldh1a3	aldehyde dehydrogenase family 1, subfamily A3	1.75E-03	NM_053080
1890	Bmp2	bone morphogenetic protein 2	1.75E-03	NM_007553
1891	Tnfaip2	tumor necrosis factor, alpha-induced protein 2	1.75E-03	NM_009396
1892	Pim1	proviral integration site 1	1.75E-03	NM_008842
1893	Zcchc10	zinc finger, CCHC domain containing 10	1.75E-03	NM_026479
1894	Slc16a2	solute carrier family 16 (monocarboxylic acid transporters), member 2	1.76E-03	NM_009197
1895	Rab3d	RAB3D, member RAS oncogene family	1.76E-03	NM_031874
1896	Plekhf1	pleckstrin homology domain containing, family F (with FYVE domain) member 1	1.77E-03	NM_024413
1897	Hmgb1	high mobility group box 1	1.77E-03	NM_010439
1898	Zmynd11	zinc finger, MYND domain containing 11	1.77E-03	NM_144516
1899	Spata13	spermatogenesis associated 13	1.77E-03	NM_001033272 /// XM_901902 /// XM_923227
1900	Muc20	mucin 20	1.77E-03	NM_001145874 /// NM_146071
1901	Plscr2	phospholipid scramblase 2	1.77E-03	NM_008880
1902	Bex1	brain expressed gene 1	1.77E-03	NM_009052
1903	Gja1	gap junction protein, alpha 1	1.78E-03	NM_010288
1904	Ano10	anoctamin 10	1.78E-03	NM_133979
1905	Ncf4	neutrophil cytosolic factor 4	1.78E-03	NM_008677
1906	Herc1	hect (homologous to the E6-AP (UBE3A) carboxyl terminus) domain and RCC1 (CHC	1.79E-03	XM_001477062 /// XM_918072
1907	Ewsr1	Ewing sarcoma breakpoint region 1	1.79E-03	NM_007968
1908	Rnf26	ring finger protein 26	1.79E-03	NM_153762
1909	LOC100048168 /// Sav1	similar to WW45 protein /// salvador homolog 1 (Drosophila)	1.80E-03	NM_022028 /// XM_001479668
1910	C3ar1	complement component 3a receptor 1	1.81E-03	NM_009779
1911	Zfp260	zinc finger protein 260	1.81E-03	NM_0111981
1912	Acbd3	acyl-Coenzyme A binding domain containing 3	1.81E-03	NM_133225
1913	Sfpq	splicing factor proline/glutamine rich (polypyrimidine tract binding protein ass	1.81E-03	NM_023603
1914	Alpl	alkaline phosphatase, liver/bone/kidney	1.81E-03	NM_007431
1915	---	---	1.82E-03	---
1916	Rgs19	regulator of G-protein signaling 19	1.82E-03	NM_026446
1917	3632451O06Rik	RIKEN cDNA 3632451O06 gene	1.82E-03	NM_026142
1918	Scamp1	secretory carrier membrane protein 1	1.83E-03	NM_029153
1919	Cyp7b1	cytochrome P450, family 7, subfamily b, polypeptide 1	1.83E-03	NM_007825
1920	Smarcaad1	SWI/SNF-related, matrix-associated actin-dependent regulator of chromatin, subfa	1.83E-03	NM_007958
1921	Impdh2	inosine 5'-phosphate dehydrogenase 2	1.84E-03	NM_011830
1922	Cdca7l	cell division cycle associated 7 like	1.84E-03	NM_146040
1923	Tuba1b	tubulin, alpha 1B	1.84E-03	NM_011654
1924	Reep5	receptor accessory protein 5	1.84E-03	NM_007874
1925	Pfn2	profilin 2	1.85E-03	NM_019410
1926	Emr1	EGF-like module containing, mucin-like, hormone receptor-like sequence 1	1.85E-03	NM_010130
1927	2310002J15RIK	RIKEN cDNA 2310002J15 gene	1.85E-03	NM_026415
1928	Ube4b	ubiquitination factor E4B, UFD2 homolog (S. cerevisiae)	1.85E-03	NM_022022 /// XM_001477015
1929	Lime1	Lck interacting transmembrane adaptor 1	1.85E-03	NM_023684

1930	Cbx4	chromobox homolog 4 (Drosophila Pc class)	1.85E-03	NM_007625
1931	Mrpl3	mitochondrial ribosomal protein L3	1.86E-03	NM_053159
1932	Gyg	glycogenin	1.86E-03	NM_013755
1933	Pvr	poliovirus receptor	1.87E-03	NM_027514
1934	Tmem123	transmembrane protein 123	1.87E-03	NM_133739
1935	Ppp1r15b	protein phosphatase 1, regulatory (inhibitor) subunit 15b	1.87E-03	NM_133819
1936	Ccdc28a /// LOC100045472	coiled-coil domain containing 28A /// similar to coiled-coil domain containing 2	1.87E-03	NM_144820 /// XR_031647
1937	Rps21	ribosomal protein S21	1.88E-03	NM_025587
1938	Fam125b	family with sequence similarity 125, member B	1.88E-03	NM_175184
1939	Gm15365 /// Tomm20	predicted gene 15365 /// translocase of outer mitochondrial membrane 20 homolog	1.88E-03	NM_024214 /// XM_001475536
1940	Gab1	growth factor receptor bound protein 2-associated protein 1	1.88E-03	NM_021356
1941	Vwf	Von Willebrand factor homolog	1.89E-03	NM_011708
1942	Hmg20a	high mobility group 20A	1.89E-03	NM_025812
1943	Stx5a	syntaxin 5A	1.89E-03	NM_019829
1944	Isy1	ISY1 splicing factor homolog (S. cerevisiae)	1.90E-03	NM_133934
1945	Ip6k1	inositol hexaphosphate kinase 1	1.91E-03	NM_013785
1946	Cyp2c50	cytochrome P450, family 2, subfamily c, polypeptide 50	1.92E-03	NM_134144
1947	Tlr2	toll-like receptor 2	1.92E-03	NM_011905
1948	Marcks1	MARCKS-like 1	1.92E-03	NM_010807
1949	Tecr	trans-2,3-enoyl-CoA reductase	1.93E-03	NM_027179 /// NM_134118
1950	Huwe1	HECT, UBA and WWE domain containing 1	1.93E-03	NM_021523
1951	Ggnbp2	gametogenetin binding protein 2	1.93E-03	NM_153144
1952	Setd3	SET domain containing 3	1.93E-03	NM_028262
1953	---	---	1.94E-03	---
1954	Tmem119	transmembrane protein 119	1.94E-03	NM_146162
1955	Lamb1-1	laminin B1 subunit 1	1.94E-03	NM_008482
1956	Tbca	tubulin cofactor A	1.94E-03	NM_009321
1957	Mef2b	myocyte enhancer factor 2B	1.94E-03	NM_001045484 /// NM_008578 /// XM_486121 /// XM_922052
1958	LOC100044953 /// Ppp1cb	similar to protein phosphatase 1 /// protein phosphatase 1, catalytic subunit, b	1.94E-03	NM_172707 /// XR_031192
1959	Fam117a	family with sequence similarity 117, memberA	1.94E-03	NM_172543
1960	Ccl2	chemokine (C-C motif) ligand 2	1.94E-03	NM_011333
1961	Cpz	carboxypeptidase Z	1.94E-03	NM_153107
1962	Slc3a1	solute carrier family 3, member 1	1.95E-03	NM_009205
1963	Rapgef1	Rap guanine nucleotide exchange factor (GEF) 1	1.95E-03	NM_001039086 /// NM_001039087 /// NM_054050
1964	Pias1	protein inhibitor of activated STAT 1	1.95E-03	NM_019663
1965	Scoc	short coiled-coil protein	1.95E-03	NM_001039137 /// NM_019708
1966	2900073G15Rik	RIKEN cDNA 2900073G15 gene	1.95E-03	NM_026064
1967	2010107E04Rik	RIKEN cDNA 2010107E04 gene	1.95E-03	NM_027360
1968	Pfkp	phosphofructokinase, platelet	1.97E-03	NM_019703
1969	Sptlc2	serine palmitoyltransferase, long chain base subunit 2	1.97E-03	NM_011479
1970	Prodh	proline dehydrogenase	1.97E-03	NM_011172
1971	Maf1	MAF1 homolog (S. cerevisiae)	1.97E-03	NM_026859
1972	Man2c1	mannosidase, alpha, class 2C, member 1	1.97E-03	NM_028636
1973	Gabarapl2	gamma-aminobutyric acid (GABA) A receptor-associated protein-like 2	1.97E-03	NM_026693
1974	Mrps14	mitochondrial ribosomal protein S14	1.97E-03	NM_025474
1975	Cugbp2	CUG triplet repeat, RNA binding protein 2	1.97E-03	NM_001110228 /// NM_001110229 /// NM_001110230 /// NM_001110231 ///

1976	Ube2j1	ubiquitin-conjugating enzyme E2, J1	1.97E-03	NM_019586
1977	Rbm17	RNA binding motif protein 17	1.98E-03	NM_152824
1978	Ncstn	nicastrin	1.98E-03	NM_021607
1979	Mat2a	methionine adenosyltransferase II, alpha	1.99E-03	NM_145569
1980	Tmem49	transmembrane protein 49	1.99E-03	NM_029478
1981	Taok3	TAO kinase 3	1.99E-03	NM_001081308
1982	Gm11263 /// Gm12242 /// Gm13654	predicted gene 11263 /// predicted gene 12242 /// predicted gene 13654	1.99E-03	NM_009096 /// XM_001001005 /// XM_001003926 /// XM_001476577 /// XM_001477571
1983	Sgpp1	sphingosine-1-phosphate phosphatase 1	1.99E-03	NM_030750
1984	LOC100047324 /// Sesn1	similar to Sesn1 protein /// sestrin 1	1.99E-03	NM_001013370 /// NM_001162908 /// XM_001477554 /// XM_001477571
1985	Cpeb3	cytoplasmic polyadenylation element binding protein 3	1.99E-03	NM_198300
1986	Stambp1	STAM binding protein like 1	2.00E-03	NM_029682
1987	2310044G17Rik	RIKEN cDNA 2310044G17 gene	2.00E-03	NM_173735
1988	Cbx1	chromobox homolog 1 (Drosophila HP1 beta)	2.01E-03	NM_007622
1989	Crk	v-crk sarcoma virus CT10 oncogene homolog (avian)	2.01E-03	NM_133656
1990	Col6a3	collagen, type VI, alpha 3	2.01E-03	XM_001474562 /// XM_897036
1991	Eny2	enhancer of yellow 2 homolog (Drosophila)	2.01E-03	NM_175009
1992	Nr3c1	nuclear receptor subfamily 3, group C, member 1	2.01E-03	NM_008173
1993	Acad11 /// Nphp3	acyl-Coenzyme A dehydrogenase family, member 11 /// nephronophthisis 3 (adolescent)	2.01E-03	NM_028721 /// NM_172460 /// NM_175324
1994	Cdkl2	cyclin-dependent kinase-like 2 (CDC2-related kinase)	2.01E-03	NM_016912 /// NM_177270
1995	Cox18	COX18 cytochrome c oxidase assembly homolog (S. cerevisiae)	2.01E-03	NM_001033310 /// NM_001163456 /// NR_028088
1996	Kif1b	kinesin family member 1B	2.01E-03	NM_008441 /// NM_207682
1997	Slc30a7	solute carrier family 30 (zinc transporter), member 7	2.03E-03	NM_023214
1998	Grhl2	grainyhead-like 2 (Drosophila)	2.03E-03	NM_026496
1999	Rnf26	ring finger protein 26	2.04E-03	NM_153762
2000	Pdxdc1	pyridoxal-dependent decarboxylase domain containing 1	2.04E-03	NM_001039533 /// NM_053181
2001	Hnrnpa2b1	heterogeneous nuclear ribonucleoprotein A2/B1	2.04E-03	NM_016806 /// NM_182650
2002	Gypc	glycophorin C	2.04E-03	NM_001048207
2003	Enah	enabled homolog (Drosophila)	2.05E-03	NM_001083120 /// NM_001083121 /// NM_008680 /// NM_010135
2004	Ctdsp2 /// Gm9770	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 2	2.05E-03	NM_001113470 /// NM_146012 /// XR_032943 /// XR_034953
2005	Arid1a	AT rich interactive domain 1A (SWI-like)	2.05E-03	NM_001080819
2006	Fcrla	Fc receptor-like A	2.05E-03	NM_001160215 /// NM_145141 /// NR_027666
2007	Wdr6	WD repeat domain 6	2.05E-03	NM_031392
2008	2310014H01Rik	RIKEN cDNA 2310014H01 gene	2.05E-03	NM_001146710 /// NM_001146711 /// NM_175242 /// XM_001003622 /// XM_001003623
2009	Silt2	silt homolog 2 (Drosophila)	2.05E-03	NM_178804
2010	Rhog	ras homolog gene family, member G	2.06E-03	NM_019566
2011	Mrpl15	mitochondrial ribosomal protein L15	2.06E-03	NM_025300
2012	Atp6v1a	ATPase, H+ transporting, lysosomal V1 subunit A	2.06E-03	NM_007508
2013	Dnpep	aspartyl aminopeptidase	2.07E-03	NM_001110831 /// NM_016878
2014	Mmp9	matrix metalloproteinase 9	2.07E-03	NM_013599
2015	Pisd /// Pisd-ps1 /// Pisd-ps3	phosphatidylserine decarboxylase /// phosphatidylserine decarboxylase, pseudogen	2.07E-03	NM_177298 /// NR_003517 /// NR_003518 /// XM_001471470 /// XR_035646
2016	Akap1	A kinase (PRKA) anchor protein 1	2.08E-03	NM_001042541 /// NM_009648
2017	Blmh	bleomycin hydrolase	2.08E-03	NM_178645
2018	Acad11 /// Nphp3	acyl-Coenzyme A dehydrogenase family, member 11 /// nephronophthisis 3 (adolescent)	2.08E-03	NM_028721 /// NM_172460 /// NM_175324
2019	Igj	immunoglobulin joining chain	2.09E-03	NM_152839
2020	Pcnx13	pecanex-like 3 (Drosophila)	2.09E-03	NM_144868
2021	---	---	2.09E-03	---

2022	Ergic1	endoplasmic reticulum-golgi intermediate compartment (ERGIC) 1	2.10E-03	NM_026170
2023	Podxl	podocalyxin-like	2.10E-03	NM_013723
2024	Cd33	CD33 antigen	2.10E-03	NM_001111058 /// NM_021293
2025	D630032N06RIK	RIKEN cDNA D630032N06 gene	2.10E-03	NR_028329 /// XR_035235 /// XR_035464
2026	Hist1h3d	histone cluster 1, H3d	2.10E-03	NM_178204
2027	Immt	inner membrane protein, mitochondrial	2.10E-03	NM_029673
2028	Anapc13	anaphase promoting complex subunit 13	2.11E-03	NM_181394
2029	Zfpm2	zinc finger protein, multitype 2	2.11E-03	NM_011766
2030	Cdk2ap1 /// LOC100047490	CDK2 (cyclin-dependent kinase 2)-associated protein 1 /// similar to putative or	2.11E-03	NM_013812 /// XM_001478266
2031	Ms4a1	membrane-spanning 4-domains, subfamily A, member 1	2.11E-03	NM_007641
2032	Lilrb3	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains),	2.11E-03	NM_011095
2033	Cort	cortistatin	2.12E-03	NM_007745
2034	1110058L19RIK	RIKEN cDNA 1110058L19 gene	2.12E-03	NM_026503
2035	LOC100047693 /// Pvr13	similar to cell adhesion molecule nectin-3 beta /// poliovirus receptor-related	2.12E-03	NM_021495 /// NM_021496 /// NM_021497 /// XM_001478695
2036	Zfp503	zinc finger protein 503	2.12E-03	NM_145459
2037	Cct4	chaperonin containing Tcp1, subunit 4 (delta)	2.12E-03	NM_009837
2038	Chn1	chimerin (chimaerin) 1	2.12E-03	NM_001113246 /// NM_029716 /// NM_175752
2039	Elt1d1	EGF, latrophilin seven transmembrane domain containing 1	2.13E-03	NM_133222
2040	Wsb1	WD repeat and SOCS box-containing 1	2.13E-03	NM_001042565 /// NM_019653
2041	Oxct1	3-oxoacid CoA transferase 1	2.13E-03	NM_024188
2042	Hbp1	high mobility group box transcription factor 1	2.13E-03	NM_153198 /// NM_177993
2043	Scd1	stearoyl-Coenzyme A desaturase 1	2.13E-03	NM_009127
2044	Mapk6	mitogen-activated protein kinase 6	2.14E-03	NM_015806 /// NM_027418
2045	Asb13	ankyrin repeat and SOCS box-containing 13	2.14E-03	NM_080857 /// NM_178283
2046	Itga2b	integrin alpha 2b	2.14E-03	NM_010575
2047	Coro2b	coronin, actin binding protein, 2B	2.14E-03	NM_175484
2048	Ptgr1	prostaglandin reductase 1	2.15E-03	NM_025968
2049	Thap7	THAP domain containing 7	2.15E-03	NM_026909
2050	Ms4a4c	membrane-spanning 4-domains, subfamily A, member 4C	2.15E-03	NM_029499
2051	Cnp	2',3'-cyclic nucleotide 3' phosphodiesterase	2.16E-03	NM_001146318 /// NM_009923
2052	Ms4a1	membrane-spanning 4-domains, subfamily A, member 1	2.16E-03	NM_007641
2053	Sult1a1	sulfotransferase family 1A, phenol-preferring, member 1	2.16E-03	NM_133670
2054	Slk	STE20-like kinase (yeast)	2.17E-03	NM_009289
2055	5730469M10RIK	RIKEN cDNA 5730469M10 gene	2.17E-03	NM_027464
2056	B9d2	B9 protein domain 2	2.17E-03	NM_172148
2057	Brc1	breast cancer 1	2.18E-03	NM_009764
2058	Pls1	plastin 1 (l-isoform)	2.18E-03	NM_001033210
2059	Wwox	WW domain-containing oxidoreductase	2.18E-03	NM_019573
2060	Pus3	pseudouridine synthase 3	2.18E-03	NM_023292
2061	Ube2d3	ubiquitin-conjugating enzyme E2D 3 (UBC4/5 homolog, yeast)	2.19E-03	NM_025356
2062	Ppp2r2d	protein phosphatase 2, regulatory subunit B, delta isoform	2.19E-03	NM_026391
2063	Mff	mitochondrial fission factor	2.19E-03	NM_029409
2064	Scarb2	scavenger receptor class B, member 2	2.20E-03	NM_007644
2065	Mybph	myosin binding protein H	2.20E-03	NM_016749
2066	Pias3	protein inhibitor of activated STAT 3	2.20E-03	NM_018812 /// NM_146135
2067	Retn	resistin	2.21E-03	NM_022984

2068	Zdhhc8	zinc finger, DHHC domain containing 8	2.21E-03	NM_172151
2069	Cyhr1	cysteine and histidine rich 1	2.21E-03	NM_019396 /// NM_180962
2070	D10Jhu81e	·DNA segment, Chr 10, Johns Hopkins University 81 expressed	2.22E-03	NM_138601
2071	Trim21	·tripartite motif-containing 21	2.22E-03	NM_001082552 /// NM_009277
2072	Emi5	·echinoderm microtubule associated protein like 5	2.22E-03	NM_001081191
2073	Elov1	·elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 1	2.23E-03	NM_001039175 /// NM_001039176 /// NM_019422
2074	Hars	·histidyl-tRNA synthetase	2.23E-03	NM_008214
2075	Ip6k1	·inositol hexaphosphate kinase 1	2.24E-03	NM_013785
2076	LOC668727 /// Mrgpra2	·similar to Mrgpra2 protein /// MAS-related GPR, member A2	2.24E-03	NM_153101 /// XM_001003345
2077	Casp2	·caspase 2	2.24E-03	NM_007610
2078	Tlr3	·toll-like receptor 3	2.24E-03	NM_126166
2079	Hspa8	·heat shock protein 8	2.24E-03	NM_031165
2080	Ccdc123	·coiled-coil domain containing 123	2.25E-03	NM_028120
2081	Mfsd6	·major facilitator superfamily domain containing 6	2.25E-03	NM_133829 /// NM_178081
2082	Tfpi2	·tissue factor pathway inhibitor 2	2.25E-03	NM_009364
2083	Prpf4b	·PRP4 pre-mRNA processing factor 4 homolog B (yeast)	2.25E-03	NM_013830
2084	Bzw1 /// Gm11652 /// Gm5191	·basic leucine zipper and W2 domains 1 /// basic leucine zipper and W2 domains 1	2.25E-03	NM_025824 /// XR_030943 /// XR_031052 /// XR_032615 /// XR_034329
2085	Tpi1	·triosephosphate isomerase 1	2.26E-03	NM_009415
2086	Dag1	·dystroglycan 1	2.26E-03	NM_010017
2087	Slain2	·SLAIN motif family, member 2	2.26E-03	NM_001113423 /// NM_153567
2088	Mtf2	·metal response element binding transcription factor 2	2.26E-03	NM_013827
2089	2810405K02Rik	·RIKEN cDNA 2810405K02 gene	2.27E-03	NM_025582
2090	Socs4	·suppressor of cytokine signaling 4	2.27E-03	NM_080843
2091	Ndufs8	·NADH dehydrogenase (ubiquinone) Fe-S protein 8	2.27E-03	NM_144870
2092	Wdfy2	·WD repeat and FYVE domain containing 2	2.27E-03	NM_175546
2093	Ogt	·O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polyr	2.28E-03	NM_139144
2094	Crkl	·v-crk sarcoma virus CT10 oncogene homolog (avian)-like	2.28E-03	NM_007764
2095	Acaa2	·acetyl-Coenzyme A acyltransferase 2 (mitochondrial 3-oxoacyl-Coenzyme A thiolase	2.29E-03	NM_177470
2096	Pycr1	·pyrroline-5-carboxylate reductase 1	2.29E-03	NM_144795
2097	Pdxp	·pyridoxal (pyridoxine, vitamin B6) phosphatase	2.29E-03	NM_020271
2098	6330578E17Rik	·RIKEN cDNA 6330578E17 gene	2.29E-03	NM_198006
2099	Cap1	·CAP, adenylate cyclase-associated protein 1 (yeast)	2.30E-03	NM_007598
2100	Edem1	·ER degradation enhancer, mannosidase alpha-like 1	2.30E-03	NM_138677
2101	Ssr4	·signal sequence receptor, delta	2.30E-03	NM_009279
2102	Nbn	·nibrin	2.31E-03	NM_013752
2103	Cops5	·COP9 (constitutive photomorphogenic) homolog, subunit 5 (Arabidopsis thaliana)	2.31E-03	NM_013715
2104	Rps6ka2	·ribosomal protein S6 kinase, polypeptide 2	2.31E-03	NM_011299
2105	Ctnnb1	·catenin, beta like 1	2.31E-03	NM_025680
2106	Col4a5	·collagen, type IV, alpha 5	2.31E-03	NM_001163155 /// NM_007736
2107	F11r	·F11 receptor	2.32E-03	NM_172647
2108	Sesn2	·sestrin 2	2.32E-03	NM_144907
2109	Arap1	·ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1	2.33E-03	NM_001040111 /// NM_001040112 /// NM_027180 /// NM_198096
2110	Wdr33	·WD repeat domain 33	2.33E-03	NM_028866
2111	Prdx1	·peroxiredoxin 1	2.34E-03	NM_011034
2112	Zfp426	·zinc finger protein 426	2.34E-03	NM_001110309 /// NM_146221
2113	Gpatch2	·G patch domain containing 2	2.34E-03	NM_026367

2114	LOC100048168 /// Sav1	similar to WW45 protein /// salvador homolog 1 (Drosophila)	2.35E-03	NM_022028 /// XM_001479668
2115	Gm10709 /// Gm13841 /// Gm	predicted gene 10709 /// predicted gene 13841 /// predicted gene 3550 /// predic	2.35E-03	NM_009082 /// XM_001473311 /// XM_001474601 /// XM_001475711 /// XM
2116	Ehd1	EH-domain containing 1	2.36E-03	NM_010119
2117	Zwint	ZW10 interactor	2.36E-03	NM_025635
2118	Smyd5	SET and MYND domain containing 5	2.36E-03	NM_144918
2119	Enpp2	ectonucleotide pyrophosphatase/phosphodiesterase 2	2.37E-03	NM_001136077 /// NM_015744
2120	Birc2	baculoviral IAP repeat-containing 2	2.37E-03	NM_007465
2121	Prr12	proline rich 12	2.37E-03	NM_175022 /// XM_001003082 /// XM_914632
2122	Cry2	cryptochrome 2 (photolyase-like)	2.37E-03	NM_001113333 /// NM_009963
2123	Cdv3	carnitine deficiency-associated gene expressed in ventricle 3	2.38E-03	NM_001134426 /// NM_001134427 /// NM_175565 /// NM_175833
2124	Shfm1	split hand/foot malformation (ectrodactyly) type 1	2.39E-03	NM_009169
2125	1810026J23Rik	RIKEN cDNA 1810026J23 gene	2.39E-03	NM_178619
2126	Pcmt1	protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 1	2.39E-03	NM_183028
2127	Sec14l2	SEC14-like 2 (S. cerevisiae)	2.39E-03	NM_144520
2128	Glis2	GLIS family zinc finger 2	2.40E-03	NM_031184
2129	Nckap1l	NCK associated protein 1 like	2.40E-03	NM_153505
2130	Sico3a1	solute carrier organic anion transporter family, member 3a1	2.41E-03	NM_001038643 /// NM_023908
2131	Pard6g	par-6 partitioning defective 6 homolog gamma (C. elegans)	2.42E-03	NM_053117
2132	Ptpn12	protein tyrosine phosphatase, non-receptor type 12	2.43E-03	NM_011203
2133	Tra2a	transformer 2 alpha homolog (Drosophila)	2.43E-03	NM_198102
2134	Rbms1	RNA binding motif, single stranded interacting protein 1	2.43E-03	NM_001141931 /// NM_001141932 /// NM_020296
2135	Cd81	CD81 antigen	2.43E-03	NM_133655
2136	Pacrgl	PARK2 co-regulated-like	2.43E-03	NM_025755
2137	Vps26a	vacuolar protein sorting 26 homolog A (yeast)	2.43E-03	NM_001113355 /// NM_133672
2138	Mpa2l	macrophage activation 2 like	2.43E-03	NM_194336
2139	H13	histocompatibility 13	2.44E-03	NM_001159551 /// NM_001159552 /// NM_001159553 /// NM_010376
2140	Fzd6	frizzled homolog 6 (Drosophila)	2.44E-03	NM_001162494 /// NM_008056
2141	Dnajc28	DnaJ (Hsp40) homolog, subfamily C, member 28	2.44E-03	NM_001099738 /// NM_138664
2142	Ptpn21	protein tyrosine phosphatase, non-receptor type 21	2.44E-03	NM_001146199 /// NM_011877
2143	Tsc1	tuberous sclerosis 1	2.45E-03	NM_022887
2144	1810009A15Rik	RIKEN cDNA 1810009A15 gene	2.45E-03	NM_025463
2145	Ubf1	ubiquitin family domain containing 1	2.45E-03	NM_138589
2146	Cd22	CD22 antigen	2.47E-03	NM_001043317 /// NM_009845
2147	Cdkn2b	cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4)	2.47E-03	NM_007670
2148	Habp2	hyaluronic acid binding protein 2	2.48E-03	NM_146101
2149	Copg2as2	coatamer protein complex, subunit gamma 2, antisense 2	2.48E-03	NR_002845 /// XM_001471930
2150	Cstb	cystatin B	2.48E-03	NM_007793
2151	Polr2h	polymerase (RNA) II (DNA directed) polypeptide H	2.48E-03	NM_145632
2152	Ola1	Obg-like ATPase 1	2.49E-03	NM_025942 /// NM_030091
2153	Arid3b	AT rich interactive domain 3B (BRIGHT-like)	2.50E-03	NM_019689
2154	Cytsb	cytospin B	2.50E-03	NM_001029936
2155	Map2k5	mitogen-activated protein kinase kinase 5	2.51E-03	NM_011840
2156	Adh1	alcohol dehydrogenase 1 (class I)	2.51E-03	NM_007409
2157	Ube2l3	ubiquitin-conjugating enzyme E2L 3	2.52E-03	NM_009456
2158	Cttn	cortactin	2.52E-03	NM_007803
2159	Gadd45b	growth arrest and DNA-damage-inducible 45 beta	2.52E-03	NM_008655

2160	Ttk	Ttk protein kinase	2.53E-03	NM_001110265 /// NM_009445
2161	Phf3	PHD finger protein 3	2.53E-03	NM_001081080
2162	Ifitm1	interferon induced transmembrane protein 1	2.53E-03	NM_001112715 /// NM_026820
2163	Enc1	ectodermal-neural cortex 1	2.53E-03	NM_007930
2164	Pppde2	PPPDE peptidase domain containing 2	2.53E-03	NM_134095
2165	Bcl2l11	BCL2-like 11 (apoptosis facilitator)	2.54E-03	NM_009754 /// NM_207680 /// NM_207681
2166	Dda1	DET1 and DDB1 associated 1	2.54E-03	NM_025600 /// XM_001476732 /// XM_912953
2167	Clec4n	C-type lectin domain family 4, member n	2.54E-03	NM_020001
2168	Zfp758	zinc finger protein 758	2.55E-03	NM_145484
2169	Gm11517	predicted gene 11517	2.55E-03	XM_001475488 /// XM_001478289 /// XM_894675 /// XM_915795
2170	Gosr1	golgi SNAP receptor complex member 1	2.55E-03	NM_016810
2171	Selp	selectin, platelet	2.56E-03	NM_011347
2172	Pitrm1	pitrilysin metalloproteinase 1	2.56E-03	NM_145131
2173	Gm13072 /// Gm7828 /// Trmt	predicted gene 13072 /// predicted gene 7828 /// tRNA methyltransferase 11-2 hom	2.56E-03	NM_001111273 /// NM_026306 /// XM_892701 /// XM_905419 /// XM_90581
2174	Atp6v0a1	ATPase, H+ transporting, lysosomal V0 subunit A1	2.56E-03	NM_016920
2175	9130401M01RIK	RIKEN cDNA 9130401M01 gene	2.57E-03	NM_029418
2176	Sdha	succinate dehydrogenase complex, subunit A, flavoprotein (Fp)	2.57E-03	NM_023281
2177	Adamts15	a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin ty	2.57E-03	NM_001024139
2178	Rps20	ribosomal protein S20	2.58E-03	NM_026147
2179	Pkig	protein kinase inhibitor, gamma	2.58E-03	NM_001039390 /// NM_001039391 /// NM_001164053 /// NM_001164055 ///
2180	Lmcd1	LIM and cysteine-rich domains 1	2.59E-03	NM_144799
2181	Cox5b	cytochrome c oxidase, subunit Vb	2.59E-03	NM_009942
2182	Comm1	COMM domain containing 1	2.61E-03	NM_144514
2183	Lgtn	ligatin	2.62E-03	NM_001136070 /// NM_010709
2184	Gpr124	G protein-coupled receptor 124	2.63E-03	NM_054044
2185	Cyp4v3	cytochrome P450, family 4, subfamily v, polypeptide 3	2.64E-03	NM_133969
2186	Ch1	cell adhesion molecule with homology to L1CAM	2.66E-03	NM_007697
2187	Rps12	ribosomal protein S12	2.66E-03	NM_0111295
2188	Pkmyt1	protein kinase, membrane associated tyrosine/threonine 1	2.67E-03	NM_023058
2189	Myh14	myosin, heavy polypeptide 14	2.68E-03	NM_028021
2190	Rexo1	REX1, RNA exonuclease 1 homolog (S. cerevisiae)	2.68E-03	NM_025852
2191	Foxk1	forkhead box K1	2.68E-03	NM_199068
2192	Ttc39b	tetratricopeptide repeat domain 39B	2.69E-03	NM_027238
2193	Meis2	Meis homeobox 2	2.70E-03	NM_001136072 /// NM_001159567 /// NM_001159568 /// NM_001159569 ///
2194	Pja1	praja1, RING-H2 motif containing	2.70E-03	NM_001083110 /// NM_008853
2195	Pebp1	phosphatidylethanolamine binding protein 1	2.70E-03	NM_018858
2196	Synrg	synergyn, gamma	2.70E-03	NM_001115009 /// NM_194341
2197	Nedd1	neural precursor cell expressed, developmentally down-regulated gene 1	2.70E-03	NM_008682
2198	Ndufa12	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 12	2.71E-03	NM_025551
2199	Slc41a2	Solute carrier family 41, member 2	2.71E-03	NM_177388
2200	Sema3c	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semapho	2.71E-03	NM_013657
2201	Cdx2	caudal type homeo box 2	2.72E-03	NM_007673
2202	Fzd6	frizzled homolog 6 (Drosophila)	2.72E-03	NM_001162494 /// NM_008056
2203	Pigk	phosphatidylinositol glycan anchor biosynthesis, class K	2.72E-03	NM_025662 /// NM_178016
2204	Snx5	sorting nexin 5	2.73E-03	NM_024225
2205	B4galt6	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 6	2.75E-03	NM_019737

2206	Men1	multiple endocrine neoplasia 1	2.75E-03	NM_008583
2207	Ufc1	ubiquitin-fold modifier conjugating enzyme 1	2.76E-03	NM_025388
2208	Ets1	E26 avian leukemia oncogene 1, 5' domain	2.76E-03	NM_001038642 /// NM_011808
2209	Gch1	GTP cyclohydrolase 1	2.76E-03	NM_008102
2210	Insl6	insulin-like 6	2.77E-03	NM_013754
2211	Dnpep	aspartyl aminopeptidase	2.77E-03	NM_001110831 /// NM_016878
2212	Bcl6	B-cell leukemia/lymphoma 6	2.77E-03	NM_009744
2213	Osbpl9	Oxysterol binding protein-like 9	2.77E-03	NM_001134791 /// NM_133885 /// NM_173350
2214	Tmem19	transmembrane protein 19	2.77E-03	NM_133683
2215	Ccr5	chemokine (C-C motif) receptor 5	2.78E-03	NM_009917
2216	Nras	neuroblastoma ras oncogene	2.78E-03	NM_010937
2217	Nupr1	nuclear protein 1	2.79E-03	NM_019738
2218	Arhgdib	Rho, GDP dissociation inhibitor (GDI) beta	2.79E-03	NM_007486
2219	Cln8	ceroid-lipofuscinosis, neuronal 8	2.79E-03	NM_012000
2220	Slc15a3	solute carrier family 15, member 3	2.79E-03	NM_023044
2221	Trim46	tripartite motif-containing 46	2.80E-03	NM_001039466 /// NM_183037
2222	Ywhab	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta p	2.80E-03	NM_018753
2223	Csnk1e	casein kinase 1, epsilon	2.80E-03	NM_013767
2224	Acta2	actin, alpha 2, smooth muscle, aorta	2.81E-03	NM_007392
2225	Panx1	pannexin 1	2.81E-03	NM_019482
2226	Lsm7	LSM7 homolog, U6 small nuclear RNA associated (S. cerevisiae)	2.81E-03	NM_025349
2227	Gm2785 /// Ifi203 /// Ifi204 ///	predicted gene 2785 /// interferon activated gene 203 /// interferon activated g	2.83E-03	NM_001033450 /// NM_001045481 /// NM_008328 /// NM_008329 /// NM_17
2228	Igk-V28	immunoglobulin kappa chain variable 28 (V28)	2.84E-03	---
2229	Mtdh	metadherin	2.85E-03	NM_026002
2230	BC004728	cDNA sequence BC004728	2.85E-03	NM_001033872 /// NM_174992
2231	Fpr2	formyl peptide receptor 2	2.85E-03	NM_008039
2232	Sash3	SAM and SH3 domain containing 3	2.85E-03	NM_028773
2233	Ptpn21	protein tyrosine phosphatase, non-receptor type 21	2.85E-03	NM_001146199 /// NM_011877
2234	Tex9	testis expressed gene 9	2.85E-03	NM_009359
2235	Kif16b	kinesin family member 16B	2.86E-03	NM_001081133
2236	Gabarapl1	gamma-aminobutyric acid (GABA) A receptor-associated protein-like 1	2.86E-03	NM_020590
2237	Lmb1	lamin B1	2.86E-03	NM_010721
2238	Ltbp1	latent transforming growth factor beta binding protein 1	2.87E-03	NM_019919 /// NM_206958
2239	Aplp2	amyloid beta (A4) precursor-like protein 2	2.87E-03	NM_001102455 /// NM_001102456 /// NM_009691
2240	Gpr137b /// LOC100044979	G protein-coupled receptor 137B /// similar to Gpr137b protein	2.87E-03	NM_031999 /// XM_001473441
2241	Hdgf	hepatoma-derived growth factor	2.87E-03	NM_008231
2242	Mtap4	microtubule-associated protein 4	2.88E-03	NM_008633
2243	Cab39	calcium binding protein 39	2.88E-03	NM_133781
2244	LOC100046421 /// Tmem222	similar to D4Ertd196e protein /// transmembrane protein 222	2.88E-03	NM_025667 /// XM_001476180
2245	Hells	helicase, lymphoid specific	2.88E-03	NM_008234
2246	Dcaf11	DDB1 and CUL4 associated factor 11	2.89E-03	NM_133734
2247	Atp6v1c1	ATPase, H+ transporting, lysosomal V1 subunit C1	2.90E-03	NM_025494
2248	Gatsl2	GATS protein-like 2	2.90E-03	NM_030719
2249	Samd10	sterile alpha motif domain containing 10	2.90E-03	NM_172676
2250	Ccdc109b	coiled-coil domain containing 109B	2.91E-03	NM_025779
2251	Aspscr1	alveolar soft part sarcoma chromosome region, candidate 1 (human)	2.91E-03	NM_001164224 /// NM_026877 /// NM_198223

2252	Tnk2	tyrosine kinase, non-receptor, 2	2.91E-03	NM_001110147 /// NM_016788
2253	Stl7l	suppression of tumorigenicity 7-like	2.91E-03	NM_153091
2254	Rab11fip5	RAB11 family interacting protein 5 (class I)	2.92E-03	NM_001003955 /// NM_177466
2255	Rnf113a1	ring finger protein 113A1	2.92E-03	NM_153503
2256	Alg2	asparagine-linked glycosylation 2 homolog (yeast, alpha-1,3-mannosyltransferase)	2.92E-03	NM_019998
2257	Pcolce2	procollagen C-endopeptidase enhancer 2	2.92E-03	NM_029620
2258	Gm4204 /// Nap111	predicted gene 4204 /// nucleosome assembly protein 1-like 1	2.92E-03	NM_001146707 /// NM_015781 /// XR_034434
2259	Aig1	androgen-induced 1	2.92E-03	NM_025446
2260	Irak1	interleukin-1 receptor-associated kinase 1	2.93E-03	NM_008363
2261	Lipa	lysosomal acid lipase A	2.93E-03	NM_001111100 /// NM_021460
2262	Dynll1 /// Gm6788	dynein light chain LC8-type 1 /// predicted gene 6788	2.94E-03	NM_019682 /// XM_892488 /// XM_913631
2263	Gm6563 /// Sarnp	SAP domain containing ribonucleoprotein pseudogene /// SAP domain containing rib	2.94E-03	NM_025364 /// XM_001478220 /// XM_001479601 /// XM_899946 /// XM_92
2264	Lrpap1	low density lipoprotein receptor-related protein associated protein 1	2.95E-03	NM_013587
2265	Rbm8a	RNA binding motif protein 8a	2.95E-03	NM_001102407 /// NM_025875
2266	Capn7	calpain 7	2.96E-03	NM_009796
2267	Dbp	D site albumin promoter binding protein	2.96E-03	NM_016974
2268	Gdpd2	glycerophosphodiester phosphodiesterase domain containing 2	2.97E-03	NM_023608
2269	Ckap4	cytoskeleton-associated protein 4	2.97E-03	NM_175451
2270	Mapksp1	MAPK scaffold protein 1	2.97E-03	NM_019920
2271	Dync1l2	dynein cytoplasmic 1 intermediate chain 2	2.97E-03	NM_010064
2272	Hspa1a	heat shock protein 1A	2.97E-03	NM_010479
2273	Mrps23	mitochondrial ribosomal protein S23	2.97E-03	NM_024174
2274	Chrnd	cholinergic receptor, nicotinic, delta polypeptide	2.97E-03	NM_021600
2275	Ier5	immediate early response 5	2.97E-03	NM_010500
2276	Ube2b	ubiquitin-conjugating enzyme E2B, RAD6 homology (S. cerevisiae)	2.98E-03	NM_009458
2277	Fam136a	family with sequence similarity 136, member A	2.99E-03	NM_025591
2278	Ubap2l	ubiquitin associated protein 2-like	2.99E-03	NM_028475 /// NM_153489
2279	Sell	selectin, lymphocyte	3.00E-03	NM_001164059 /// NM_011346
2280	3110003A17Rik	RIKEN cDNA 3110003A17 gene	3.00E-03	NM_028440 /// XM_001473245 /// XM_912949
2281	Gne	glucosamine	3.01E-03	NM_015828
2282	Rab11b	RAB11B, member RAS oncogene family	3.01E-03	NM_008997
2283	Fam3c	family with sequence similarity 3, member C	3.01E-03	NM_138587
2284	Fbxl14	F-box and leucine-rich repeat protein 14	3.02E-03	NM_133940
2285	Cbx3 /// LOC633016	chromobox homolog 3 (Drosophila HP1 gamma) /// similar to chromobox homolog 3	3.02E-03	NM_007624 /// XM_921371
2286	Nkain4	Na ⁺ /K ⁺ transporting ATPase interacting 4	3.02E-03	NM_001141933 /// NM_021426
2287	Per3	period homolog 3 (Drosophila)	3.02E-03	NM_011067
2288	---	---	3.03E-03	---
2289	Fcer1g	Fc receptor, IgE, high affinity I, gamma polypeptide	3.03E-03	NM_010185
2290	Fpgs	folylpolyglutamyl synthetase	3.03E-03	NM_010236
2291	Idh1	isocitrate dehydrogenase 1 (NADP+), soluble	3.03E-03	NM_001111320 /// NM_010497
2292	Emr4	EGF-like module containing, mucin-like, hormone receptor-like sequence 4	3.03E-03	NM_139138
2293	Ipk6k1	inositol hexaphosphate kinase 1	3.04E-03	NM_013785
2294	Ece2	endothelin converting enzyme 2	3.04E-03	NM_025462 /// NM_139293 /// NM_177940 /// NM_177941 /// NM_177942
2295	Shmt1	serine hydroxymethyltransferase 1 (soluble)	3.04E-03	NM_009171
2296	Sema4a	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short	3.05E-03	NM_001163489 /// NM_001163490 /// NM_001163491 /// NM_013658
2297	Pip5k1b	phosphatidylinositol-4-phosphate 5-kinase, type 1 beta	3.06E-03	NM_008846

2298	Ube4a	ubiquitination factor E4A, UFD2 homolog (<i>S. cerevisiae</i>)	3.06E-03	NM_145400
2299	Fbxo36	F-box protein 36	3.08E-03	NM_025386
2300	Chst14	carbohydrate (N-acetylgalactosamine 4-O) sulfotransferase 14	3.09E-03	NM_028117
2301	Tal2	T-cell acute lymphocytic leukemia 2	3.09E-03	NM_009317
2302	Ralbp1	ralA binding protein 1	3.09E-03	NM_009067
2303	Rarres2	retinoic acid receptor responder (tazarotene induced) 2	3.09E-03	NM_027852
2304	Csnk2a1 /// Gm10031	casein kinase 2, alpha 1 polypeptide /// predicted gene 10031	3.10E-03	NM_007788 /// XM_001472047
2305	Xpr1	xenotropic and polytropic retrovirus receptor 1	3.11E-03	NM_011273
2306	Fam63a	family with sequence similarity 63, member A	3.12E-03	NM_133858
2307	Oas2	2'-5' oligoadenylate synthetase 2	3.13E-03	NM_145227
2308	Ctsa	cathepsin A	3.13E-03	NM_001038492 /// NM_008906
2309	Rassf1	Ras association (RalGDS/AF-6) domain family member 1	3.14E-03	NM_019713
2310	Usp19	ubiquitin specific peptidase 19	3.14E-03	NM_027804
2311	S100a10	S100 calcium binding protein A10 (calpactin)	3.14E-03	NM_009112
2312	---	---	3.14E-03	---
2313	Dhx30	DEAH (Asp-Glu-Ala-His) box polypeptide 30	3.14E-03	NM_133347
2314	Prdx4	peroxiredoxin 4	3.15E-03	NM_016764
2315	Ak3	adenylate kinase 3	3.15E-03	NM_021299
2316	Acp2	acid phosphatase 2, lysosomal	3.15E-03	NM_007387
2317	Sfrs7	splicing factor, arginine/serine-rich 7	3.15E-03	NM_146083
2318	Clic4	chloride intracellular channel 4 (mitochondrial)	3.16E-03	NM_013885
2319	Pcbp2	poly(rC) binding protein 2	3.18E-03	NM_001103165 /// NM_001103166 /// NM_011042
2320	Psat1	phosphoserine aminotransferase 1	3.19E-03	NM_177420
2321	Lyst	lysosomal trafficking regulator	3.19E-03	NM_010748
2322	Atp5e	ATP synthase, H+ transporting, mitochondrial F1 complex, epsilon subunit	3.19E-03	NM_025983
2323	Slc7a3	solute carrier family 7 (cationic amino acid transporter, y+ system), member 3	3.19E-03	NM_007515
2324	Pcnx	pecanex homolog (<i>Drosophila</i>)	3.19E-03	NM_018814
2325	BC017647	cDNA sequence BC017647	3.20E-03	NM_145430
2326	Tgfb1	transforming growth factor, beta induced	3.21E-03	NM_009369
2327	Galnt7	UDP-N-acetyl-alpha-D-galactosamine: polypeptide N-acetylgalactosaminyltransferase	3.21E-03	NM_144731
2328	Capzb	capping protein (actin filament) muscle Z-line, beta	3.21E-03	NM_001037761 /// NM_009798
2329	Scamp3	secretory carrier membrane protein 3	3.21E-03	NM_011886
2330	Zfp521	zinc finger protein 521	3.22E-03	NM_145492 /// NM_181326
2331	Alox12	arachidonate 12-lipoxygenase	3.22E-03	NM_007440
2332	Ralgps2	Ral GEF with PH domain and SH3 binding motif 2	3.22E-03	NM_001159965 /// NM_001159966 /// NM_001159967 /// NM_001159968 ///
2333	Ulk2	Unc-51 like kinase 2 (<i>C. elegans</i>)	3.22E-03	NM_013881
2334	Dlymk	deoxythymidylate kinase	3.22E-03	NM_001105667 /// NM_023136
2335	Mat2a	methionine adenosyltransferase II, alpha	3.23E-03	NM_145569
2336	Cdc42se2	CDC42 small effector 2	3.23E-03	NM_178626
2337	Vps41	vacuolar protein sorting 41 (yeast)	3.23E-03	NM_172120
2338	C1qtnf4	C1q and tumor necrosis factor related protein 4	3.23E-03	NM_026161
2339	Ube2v1	ubiquitin-conjugating enzyme E2 variant 1	3.24E-03	NM_023230
2340	Ppp4r2	protein phosphatase 4, regulatory subunit 2	3.25E-03	NM_182939
2341	Phlda3	pleckstrin homology-like domain, family A, member 3	3.27E-03	NM_013750
2342	Fbxo22	F-box protein 22	3.27E-03	NM_028049
2343	Lyve1	lymphatic vessel endothelial hyaluronan receptor 1	3.27E-03	NM_053247

2344	Bhlha15	basic helix-loop-helix family, member a15	3.28E-03	NM_010800
2345	Clec7a	C-type lectin domain family 7, member a	3.29E-03	NM_020008
2346	Tcl1b3	T-cell leukemia/lymphoma 1B, 3	3.29E-03	NM_013772
2347	Arhgef10	Rho guanine nucleotide exchange factor (GEF) 10	3.29E-03	NM_001037736 /// NM_172751
2348	Ncor1	nuclear receptor co-repressor 1	3.30E-03	NM_011308
2349	Tle1	transducin-like enhancer of split 1, homolog of Drosophila E(spl)	3.30E-03	NM_011599
2350	Cplx1	complexin 1	3.32E-03	NM_007756
2351	Wee1	WEE 1 homolog 1 (S. pombe)	3.32E-03	NM_009516
2352	Gstm1	glutathione S-transferase, mu 1	3.33E-03	NM_010358
2353	Adcy4	adenylate cyclase 4	3.33E-03	NM_080435
2354	Plxnd1	plexin D1	3.35E-03	NM_026376
2355	Elov11	elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 1	3.35E-03	NM_001039175 /// NM_001039176 /// NM_019422
2356	Dmkn	dermokine	3.36E-03	NM_028618 /// NM_172899
2357	Calr	calreticulin	3.36E-03	NM_007591
2358	Pla2g5	phospholipase A2, group V	3.36E-03	NM_001122954 /// NM_011110
2359	Mapk12	mitogen-activated protein kinase 12	3.36E-03	NM_013871
2360	Elf4b	eukaryotic translation initiation factor 4B	3.37E-03	NM_145625
2361	Pdap1	PDGFA associated protein 1	3.38E-03	NM_001033313
2362	Slc11a1	solute carrier family 11 (proton-coupled divalent metal ion transporters), membe	3.38E-03	NM_013612
2363	Anp32b	acidic (leucine-rich) nuclear phosphoprotein 32 family, member B	3.38E-03	NM_130889
2364	Atxn7	ataxin 7	3.38E-03	NM_139227
2365	Slc48a1	solute carrier family 48 (heme transporter), member 1	3.38E-03	NM_026353
2366	Il17d	Interleukin 17D	3.39E-03	NM_145837
2367	Trpt1	tRNA phosphotransferase 1	3.39E-03	NM_153597 /// NR_027351
2368	Rhob	ras homolog gene family, member B	3.40E-03	NM_007483
2369	Irf1	interferon regulatory factor 1	3.40E-03	NM_001159393 /// NM_001159396 /// NM_008390
2370	Ngef	neuronal guanine nucleotide exchange factor	3.41E-03	NM_001111314 /// NM_019867
2371	Parp1	poly (ADP-ribose) polymerase family, member 1	3.41E-03	NM_007415
2372	Fus	fusion, derived from t(12;16) malignant liposarcoma (human)	3.42E-03	NM_139149
2373	Gata6	GATA binding protein 6	3.42E-03	NM_010258
2374	Tmem85	transmembrane protein 85	3.42E-03	NM_026519
2375	Mat2a	methionine adenosyltransferase II, alpha	3.42E-03	NM_145569
2376	Gnptab	N-acetylglucosamine-1-phosphate transferase, alpha and beta subunits	3.44E-03	NM_001004164
2377	Rev1	REV1 homolog (S. cerevisiae)	3.45E-03	NM_019570
2378	Zcchc8	zinc finger, CCHC domain containing 8	3.45E-03	NM_027494
2379	Rab11a	RAB11a, member RAS oncogene family	3.45E-03	NM_017382
2380	Dhcr7	7-dehydrocholesterol reductase	3.45E-03	NM_007856
2381	Ccnb2	cyclin B2	3.45E-03	NM_007630
2382	Tspan14	tetraspanin 14	3.46E-03	NM_145928
2383	Padi3	peptidyl arginine deiminase, type III	3.46E-03	NM_011060
2384	Cmtm6	CKLF-like MARVEL transmembrane domain containing 6	3.47E-03	NM_026036
2385	Fbln1	fibulin 1	3.47E-03	NM_010180
2386	Nedd9	neural precursor cell expressed, developmentally down-regulated gene 9	3.47E-03	NM_001111324 /// NM_017464
2387	Sh3bgrl3	SH3 domain binding glutamic acid-rich protein-like 3	3.49E-03	NM_080559
2388	Tshr	thyroid stimulating hormone receptor	3.49E-03	NM_001113404 /// NM_011648
2389	Hnrnpul2	heterogeneous nuclear ribonucleoprotein U-like 2	3.49E-03	NM_001081196 /// XM_001477687

2390	Pqlc2	PQ loop repeat containing 2	3.49E-03	NM_145384
2391	Ipo5	importin 5	3.49E-03	NM_023579
2392	Mmp12	matrix metalloproteinase 12	3.50E-03	NM_008605
2393	Cdsn	cornedoesmosin	3.50E-03	NM_001008424 /// XM_001471477
2394	Lrrc51	leucine rich repeat containing 51	3.50E-03	NM_001162973 /// NM_001162974 /// NM_027053 /// XM_890234 /// XM_900
2395	D16Ert472e	DNA segment, Chr 16, ERATO Doi 472, expressed	3.52E-03	NM_025967 /// XM_001473183
2396	Zfp148	zinc finger protein 148	3.52E-03	NM_011749
2397	Gm2666 /// Gm7609	predicted gene 2666 /// predicted gene 7609	3.53E-03	NM_001081746 /// XM_001474231 /// XM_001474245
2398	Ociad1	OCIA domain containing 1	3.53E-03	NM_001159887 /// NM_001159888 /// NM_001159889 /// NM_023429
2399	Evl /// LOC100047333	Ena-vasodilator stimulated phosphoprotein /// similar to Ena-VASP-like	3.54E-03	NM_001163394 /// NM_001163395 /// NM_001163396 /// NM_007965 /// XM
2400	Glb1	galactosidase, beta 1	3.55E-03	NM_009752
2401	Baiap211	BAI1-associated protein 2-like 1	3.55E-03	NM_025833
2402	Flna	filamin, alpha	3.56E-03	NM_010227
2403	Aebp2	AE binding protein 2	3.56E-03	NM_001005605 /// NM_009637 /// NM_178803
2404	Atp2a3	ATPase, Ca++ transporting, ubiquitous	3.57E-03	NM_001163336 /// NM_001163337 /// NM_016745
2405	Prpsap2	phosphoribosyl pyrophosphate synthetase-associated protein 2	3.58E-03	NM_001164242 /// NM_001164243 /// NM_001164244 /// NM_144806
2406	Pim3	proviral integration site 3	3.59E-03	NM_145478
2407	LOC100045963 /// Rnf126	similar to Ring finger protein 126 /// ring finger protein 126	3.61E-03	NM_144528 /// NR_027505 /// XM_001475257
2408	Btg2	B-cell translocation gene 2, anti-proliferative	3.62E-03	NM_007570
2409	Abcf3	ATP-binding cassette, sub-family F (GCN20), member 3	3.62E-03	NM_013852
2410	Tbx6	T-box 6	3.63E-03	NM_011538
2411	Tmx1	thioredoxin-related transmembrane protein 1	3.63E-03	NM_028339
2412	Dnajc2	DnaJ (Hsp40) homolog, subfamily C, member 2	3.64E-03	NM_009584
2413	Rnf121	ring finger protein 121	3.64E-03	NM_029211
2414	Grn	granulin	3.65E-03	NM_008175
2415	Cd300a	CD300A antigen	3.65E-03	NM_170758
2416	A130022J15Rik	RIKEN cDNA A130022J15 gene	3.66E-03	NM_175313
2417	LOC100046704 /// Nras	similar to neuroblastoma ras oncogene /// neuroblastoma ras oncogene	3.66E-03	NM_010937 /// XM_001476989
2418	5033411D12Rik	RIKEN cDNA 5033411D12 gene	3.66E-03	NM_138654
2419	Cyp2b10	cytochrome P450, family 2, subfamily b, polypeptide 10	3.66E-03	NM_009998 /// NM_009999
2420	Pltp	phospholipid transfer protein	3.66E-03	NM_011125
2421	Tmem150	transmembrane protein 150	3.67E-03	NM_144916
2422	Igh-VJ558	immunoglobulin heavy chain (J558 family)	3.67E-03	---
2423	---	---	3.68E-03	---
2424	Tpp1	tripeptidyl peptidase I	3.68E-03	NM_009906
2425	Foxh1	forkhead box H1	3.69E-03	NM_007989
2426	Pacsin1	protein kinase C and casein kinase substrate in neurons 1	3.69E-03	NM_011861 /// NM_178365
2427	Tmem9b	TMEM9 domain family, member B	3.70E-03	NM_020050
2428	Enpp3	ectonucleotide pyrophosphatase/phosphodiesterase 3	3.71E-03	NM_134005
2429	Lasp1	LIM and SH3 protein 1	3.71E-03	NM_010688
2430	Evi2b	ecotropic viral integration site 2b	3.71E-03	NM_001077496 /// NM_146023
2431	Atf1	activating transcription factor 1	3.71E-03	NM_007497
2432	Scd2	stearoyl-Coenzyme A desaturase 2	3.72E-03	NM_009128
2433	Tcfap4	transcription factor AP4	3.72E-03	NM_031182
2434	Rcc1	regulator of chromosome condensation 1	3.72E-03	NM_133878
2435	201011101Rik	RIKEN cDNA 201011101 gene	3.72E-03	NM_028079

2436	Becn1	beclin 1, autophagy related	3.72E-03	NM_019584
2437	Fam125b	family with sequence similarity 125, member B	3.73E-03	NM_175184
2438	---	---	3.73E-03	---
2439	Abcc10	ATP-binding cassette, sub-family C (CFTR/MRP), member 10	3.73E-03	NM_145140 /// NM_170680
2440	Fkbp3	FK506 binding protein 3	3.73E-03	NM_013902
2441	Plvap	plasmalemma vesicle associated protein	3.74E-03	NM_032398
2442	Shroom3	shroom family member 3	3.74E-03	NM_001077595 /// NM_001077596 /// NM_015756
2443	Cbx3 /// LOC633016	chromobox homolog 3 (Drosophila HP1 gamma) /// similar to chromobox homolog 3	3.74E-03	NM_007624 /// XM_921371
2444	Rcbbt2	regulator of chromosome condensation (RCC1) and BTB (POZ) domain containing protein	3.74E-03	NM_134083
2445	Cyp39a1	cytochrome P450, family 39, subfamily a, polypeptide 1	3.75E-03	NM_018887
2446	Inpp5k	inositol polyphosphate 5-phosphatase K	3.75E-03	NM_008916
2447	Itga9	integrin alpha 9	3.76E-03	NM_001113514 /// NM_133721
2448	Senp2	SUMO/sentrin specific peptidase 2	3.77E-03	NM_029457 /// NR_027488
2449	Nupr1	nuclear protein 1	3.80E-03	NM_019738
2450	Pde10a	phosphodiesterase 10A	3.80E-03	NM_011866
2451	LOC637202 /// LOC637224 ///	similar to putative pheromone receptor (Go-VN5) /// similar to putative pheromon	3.80E-03	NM_001102581 /// NM_001104547 /// NM_001104549 /// NM_001104550 ///
2452	Ero1lb	ERO1-like beta (S. cerevisiae)	3.80E-03	NM_026184
2453	2510009E07Rik	RIKEN cDNA 2510009E07 gene	3.80E-03	NM_001001881
2454	Fastkd2	FAST kinase domains 2	3.81E-03	NM_172422
2455	Scamp2	secretory carrier membrane protein 2	3.81E-03	NM_022813
2456	Csrp1	cysteine and glycine-rich protein 1	3.81E-03	NM_007791
2457	AI428936	expressed sequence AI428936	3.82E-03	NM_153577
2458	Ap1m1	adaptor-related protein complex AP-1, mu subunit 1	3.83E-03	NM_007456
2459	Runx1t1	runx-related transcription factor 1; translocated to, 1 (cyclin D-related)	3.83E-03	NM_001111026 /// NM_001111027 /// NM_009822
2460	Tubgcp4	tubulin, gamma complex associated protein 4	3.84E-03	NM_153387
2461	Pitpnc1	phosphatidylinositol transfer protein, cytoplasmic 1	3.84E-03	NM_145823
2462	Lasp1	LIM and SH3 protein 1	3.85E-03	NM_010688
2463	Stt3b	STT3, subunit of the oligosaccharyltransferase complex, homolog B (S. cerevisiae)	3.85E-03	NM_024222
2464	Chic2	cysteine-rich hydrophobic domain 2	3.85E-03	NM_028850
2465	Pitpna	phosphatidylinositol transfer protein, alpha	3.85E-03	NM_008850
2466	Herpud1	homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like d	3.86E-03	NM_022331
2467	Il12rb2	interleukin 12 receptor, beta 2	3.86E-03	NM_008354
2468	Pak2	p21 protein (Cdc42/Rac)-activated kinase 2	3.86E-03	NM_177326
2469	---	---	3.86E-03	---
2470	Prkab1	protein kinase, AMP-activated, beta 1 non-catalytic subunit	3.87E-03	NM_031869
2471	Dgka	diacylglycerol kinase, alpha	3.88E-03	NM_016811 /// XM_001475744 /// XM_001480976
2472	Scpep1	serine carboxypeptidase 1	3.88E-03	NM_029023
2473	Traf6	TNF receptor-associated factor 6	3.89E-03	NM_009424 /// XM_001479093 /// XM_001479837
2474	Cyb5r3	cytochrome b5 reductase 3	3.90E-03	NM_029787
2475	Reep5	receptor accessory protein 5	3.90E-03	NM_007874
2476	Mrps5	mitochondrial ribosomal protein S5	3.90E-03	NM_029963
2477	Rnf138	ring finger protein 138	3.91E-03	NM_019706 /// NM_207623
2478	Tgm2	transglutaminase 2, C polypeptide	3.91E-03	NM_009373
2479	Pygo2	pygopus 2	3.91E-03	NM_026869
2480	Kifap3	kinesin-associated protein 3	3.92E-03	NM_010629
2481	Slc14a1	solute carrier family 14 (urea transporter), member 1	3.92E-03	NM_028122

2482	Igh-VJ558	Immunoglobulin heavy chain (J558 family)	3.92E-03	---
2483	Cp	ceruloplasmin	3.92E-03	NM_001042611 /// NM_007752
2484	Acox1	acyl-Coenzyme A oxidase 1, palmitoyl	3.93E-03	NM_015729
2485	Cyp2c37	cytochrome P450, family 2, subfamily c, polypeptide 37	3.93E-03	NM_010001
2486	Fbxo17	F-box protein 17	3.93E-03	NM_015796
2487	Atf3	activating transcription factor 3	3.94E-03	NM_007498
2488	Elf4enif1	eukaryotic translation initiation factor 4E nuclear import factor 1	3.95E-03	NM_023743
2489	Tada1l	transcriptional adaptor 1 (HF11 homolog, yeast) like	3.95E-03	NM_030245
2490	Ighg	Immunoglobulin heavy chain (gamma polypeptide)	3.95E-03	XM_001472541
2491	Slc29a3	solute carrier family 29 (nucleoside transporters), member 3	3.95E-03	NM_023596
2492	Ckap4	cytoskeleton-associated protein 4	3.96E-03	NM_175451
2493	Arfrp1	ADP-ribosylation factor related protein 1	3.96E-03	NM_029702
2494	Rap1b	RAS related protein 1b	3.96E-03	NM_024457
2495	Foxk2	forkhead box K2	3.96E-03	NM_001080932
2496	Calr	calreticulin	3.97E-03	NM_007591
2497	Ifit3	interferon-induced protein with tetratricopeptide repeats 3	3.97E-03	NM_010501
2498	Ncl	nucleolin	3.97E-03	NM_010880
2499	Endod1	endonuclease domain containing 1	3.98E-03	NM_028013
2500	2410066E13RIK	RIKEN cDNA 2410066E13 gene	3.98E-03	NM_026629
2501	Mavs	mitochondrial antiviral signaling protein	3.98E-03	NM_144888
2502	Edem3	ER degradation enhancer, mannosidase alpha-like 3	3.98E-03	NM_001039644
2503	Capn1	calpain 1	3.99E-03	NM_001110504 /// NM_007600
2504	Chrn1	cholinergic receptor, nicotinic, beta polypeptide 1 (muscle)	3.99E-03	NM_009601
2505	Renbp	renin binding protein	4.00E-03	NM_023132
2506	Tm7sf3	Transmembrane 7 superfamily member 3	4.01E-03	NM_026281 /// XM_001475674
2507	Bace1	beta-site APP cleaving enzyme 1	4.01E-03	NM_001145947 /// NM_011792
2508	P4ha2	procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha	4.01E-03	NM_001136076 /// NM_011031
2509	Hoxd8	homeo box D8	4.02E-03	NM_008276
2510	Il33	interleukin 33	4.03E-03	NM_133775
2511	Slc2a1	solute carrier family 2 (facilitated glucose transporter), member 1	4.03E-03	NM_011400
2512	Rps20	ribosomal protein S20	4.03E-03	NM_026147
2513	F9	coagulation factor IX	4.03E-03	NM_007979
2514	Grin1a	glutamate receptor, ionotropic, N-methyl D-aspartate-like 1A	4.03E-03	NM_178602
2515	Vps26b	vacuolar protein sorting 26 homolog B (yeast)	4.03E-03	NM_178027
2516	Anxa2	annexin A2	4.04E-03	NM_007585
2517	C630004H02RIK	RIKEN cDNA C630004H02 gene	4.04E-03	NM_175454
2518	Tcf3	transcription factor 3	4.05E-03	NM_001079822 /// NM_009332
2519	Sat1	spermidine/spermine N1-acetyl transferase 1	4.07E-03	NM_009121
2520	Nfx1	nuclear transcription factor, X-box binding 1	4.07E-03	NM_023739
2521	BC024814	cDNA sequence BC024814	4.09E-03	NM_146247
2522	O610037L13RIK	RIKEN cDNA O610037L13 gene	4.09E-03	NM_028754
2523	Dbf4	DBF4 homolog (S. cerevisiae)	4.09E-03	NM_013726
2524	Uba5	ubiquitin-like modifier activating enzyme 5	4.10E-03	NM_025692
2525	Sdc2	syndecan 2	4.10E-03	NM_008304
2526	Raet1a /// Raet1b /// Raet1c //	retinoic acid early transcript 1, alpha /// retinoic acid early transcript beta	4.10E-03	NM_009016 /// NM_009017 /// NM_009018 /// NM_020030 /// NM_198193 //
2527	4930471M23RIK	RIKEN cDNA 4930471M23 gene	4.10E-03	NM_175675

2528	Prr13	proline rich 13	4.11E-03	NM_025385
2529	Amy1	amylase 1, salivary	4.11E-03	NM_001110505 /// NM_007446
2530	Arcn1	archain 1	4.11E-03	NM_145985
2531	Mark1	MAP/microtubule affinity-regulating kinase 1	4.11E-03	NM_145515
2532	Top3b	topoisomerase (DNA) III beta	4.11E-03	NM_011624
2533	Uap111	UDP-N-acteylglucosamine pyrophosphorylase 1-like 1	4.12E-03	NM_001033293
2534	LOC100045999 /// LOC640204	similar to RAN, member RAS oncogene family /// similar to RAN, member RAS oncogene family	4.13E-03	NM_009391 /// XM_001475422 /// XR_034742
2535	Abhd10	abhydrolase domain containing 10	4.13E-03	NM_172511
2536	Gab1	growth factor receptor bound protein 2-associated protein 1	4.14E-03	NM_021356
2537	Ppm1a	protein phosphatase 1A, magnesium dependent, alpha isoform	4.16E-03	NM_008910
2538	Emp3	epithelial membrane protein 3	4.16E-03	NM_001146346 /// NM_010129
2539	---	---	4.17E-03	---
2540	Snap29	synaptosomal-associated protein 29	4.17E-03	NM_023348
2541	Pdrg1	p53 and DNA damage regulated 1	4.17E-03	NM_178939
2542	Necap1	NECAP endocytosis associated 1	4.18E-03	NM_026267
2543	rp9	retinitis pigmentosa 9 (human)	4.20E-03	NM_018739
2544	Speg	SPEG complex locus	4.20E-03	NM_001085370 /// NM_001085371 /// NM_007463
2545	Arfgap3 /// LOC100045474	ADP-ribosylation factor GTPase activating protein 3 /// similar to ADP-ribosylat	4.20E-03	NM_025445 /// XR_032156
2546	2410002022Rik	RIKEN cDNA 2410002022 gene	4.20E-03	NM_001093759 /// NM_001093760 /// NM_025879 /// NR_003546
2547	LOC100048604 /// Ninj2	similar to ninjurin2 /// ninjurin 2	4.20E-03	NM_016718 /// XM_001480570
2548	Sgms1	sphingomyelin synthase 1	4.20E-03	NM_144792
2549	Plk2	polo-like kinase 2 (Drosophila)	4.21E-03	NM_152804
2550	Wipi1	WD repeat domain, phosphoinositide interacting 1	4.21E-03	NM_145940
2551	Rnf128	ring finger protein 128	4.23E-03	NM_023270
2552	Calm1	calmodulin 1	4.23E-03	NM_009790
2553	Lgtn	ligatin	4.23E-03	NM_001136070 /// NM_010709
2554	Mocos	molybdenum cofactor sulfurase	4.23E-03	NM_026779
2555	Wdr1	WD repeat domain 1	4.24E-03	NM_011715
2556	Cox6c	cytochrome c oxidase, subunit VIc	4.24E-03	NM_053071
2557	Rbm3	RNA binding motif protein 3	4.24E-03	NM_016809
2558	Ndufs8	NADH dehydrogenase (ubiquinone) Fe-S protein 8	4.24E-03	NM_144870
2559	Lmbr1l	limb region 1 like	4.25E-03	NM_029098
2560	Sh3glb1	SH3-domain GRB2-like B1 (endophilin)	4.28E-03	NM_019464
2561	Ehhadh	enoyl-Coenzyme A hydratase/3-hydroxyacyl Coenzyme A dehydrogenase	4.29E-03	NM_023737
2562	Man1b1	mannosidase, alpha, class 1B, member 1	4.30E-03	NM_001029983
2563	Pnkd	paroxysmal nonkinesinogenic dyskinesia	4.30E-03	NM_001039509 /// NM_019999 /// NM_025580
2564	Tceal1	transcription elongation factor A (SII)-like 1	4.30E-03	NM_146236
2565	Capns1	calpain, small subunit 1	4.30E-03	NM_009795
2566	Tmlhe	trimethyllysine hydroxylase, epsilon	4.31E-03	NM_138758
2567	Slc25a33	solute carrier family 25, member 33	4.31E-03	NM_027460
2568	Ptprs	protein tyrosine phosphatase, receptor type, S	4.32E-03	NM_011218
2569	Tor1b	torsin family 1, member B	4.32E-03	NM_133673
2570	Snca	synuclein, gamma	4.32E-03	NM_011430
2571	Trim2	tripartite motif-containing 2	4.32E-03	NM_030706
2572	Set	SET translocation	4.34E-03	NM_023871
2573	Plp2	proteolipid protein 2	4.35E-03	NM_019755

2574	LOC100045442 /// Stag1	similar to Stromal antigen 1 /// stromal antigen 1	4.36E-03	NM_009282 /// XM_001474252
2575	Gypa	glycophorin A	4.36E-03	NM_010369
2576	Plek	pleckstrin	4.36E-03	NM_019549
2577	Mmab	methylmalonic aciduria (cobalamin deficiency) type B homolog (human)	4.38E-03	NM_029956
2578	Sfrs3	splicing factor, arginine/serine-rich 3 (SRp20)	4.38E-03	NM_013663
2579	Pitpnc1	phosphatidylinositol transfer protein, cytoplasmic 1	4.38E-03	NM_145823
2580	LOC100046843 /// Msh3	similar to mutS homolog 3 /// mutS homolog 3 (E. coli)	4.38E-03	NM_010829 /// XM_001475901
2581	Aldoa	aldolase A, fructose-bisphosphate	4.39E-03	NM_007438
2582	Gm10241 /// Gm13430 /// Gm13690	predicted gene 10241 /// predicted gene 13430 /// predicted gene 13690 /// simil	4.39E-03	NM_133354 /// XM_001475721 /// XM_001476458 /// XM_001476473 /// XM
2583	Cbl	Casitas B-lineage lymphoma	4.39E-03	NM_007619
2584	Prkg2	protein kinase, cGMP-dependent, type II	4.40E-03	NM_008926
2585	Set	SET translocation	4.41E-03	NM_023871
2586	Rnf111	ring finger 111	4.41E-03	NM_033604
2587	Iqgap3	IQ motif containing GTPase activating protein 3	4.42E-03	NM_001033484
2588	Tbca	tubulin cofactor A	4.42E-03	NM_009321
2589	Sart3	squamous cell carcinoma antigen recognized by T-cells 3	4.43E-03	NM_016926
2590	Nsdhl	NAD(P) dependent steroid dehydrogenase-like	4.43E-03	NM_010941
2591	Ncdn	neurochondrin	4.43E-03	NM_011986
2592	BC004004	cDNA sequence BC004004	4.43E-03	NM_030561
2593	Sec16a	SEC16 homolog A (S. cerevisiae)	4.43E-03	NM_153125
2594	Ptgs1	prostaglandin-endoperoxide synthase 1	4.43E-03	NM_008969
2595	Tomm22	translocase of outer mitochondrial membrane 22 homolog (yeast)	4.44E-03	NM_172609
2596	Gm5256 /// Gm5529 /// Slc25a2	predicted gene 5256 /// predicted gene 5529 /// solute carrier family 25 (mitoch	4.45E-03	NM_007451 /// XM_484885 /// XM_904056 /// XR_032730 /// XR_033954
2597	Gcnt2	glucosaminyl (N-acetyl) transferase 2, I-branching enzyme	4.46E-03	NM_008105 /// NM_023887 /// NM_133219
2598	Vps29	vacuolar protein sorting 29 (S. pombe)	4.47E-03	NM_019780
2599	Hspa9	heat shock protein 9	4.48E-03	NM_010481
2600	Frk	fyn-related kinase	4.48E-03	NM_001159544 /// NM_010237
2601	Col14a1	collagen, type XIV, alpha 1	4.48E-03	NM_181277
2602	Sertad2	SERTA domain containing 2	4.49E-03	NM_001038625 /// NM_021372
2603	Dpep1	dipeptidase 1 (renal)	4.49E-03	NM_007876
2604	Ehd4	EH-domain containing 4	4.49E-03	NM_133838
2605	Asf1b	ASF1 anti-silencing function 1 homolog B (S. cerevisiae)	4.49E-03	NM_024184
2606	Hdac11	histone deacetylase 11	4.50E-03	NM_144919
2607	Thrap3	thyroid hormone receptor associated protein 3	4.51E-03	NM_146153
2608	---	---	4.52E-03	---
2609	Rbp7	retinol binding protein 7, cellular	4.54E-03	NM_022020
2610	Jak1	Janus kinase 1	4.54E-03	NM_146145
2611	Zfp467	zinc finger protein 467	4.54E-03	NM_001085415 /// NM_001085416 /// NM_001085417 /// NM_020589
2612	Brwd1	bromodomain and WD repeat domain containing 1	4.55E-03	NM_001103179 /// NM_145125 /// NM_176928
2613	Sag	retinal S-antigen	4.55E-03	NM_009118
2614	Cd151	CD151 antigen	4.55E-03	NM_001111049 /// NM_001111050 /// NM_009842
2615	Dcackd	dephospho-CoA kinase domain containing	4.55E-03	NM_026551
2616	Fcrla	Fc receptor-like A	4.57E-03	NM_001160215 /// NM_145141 /// NR_027666
2617	Epha2	Eph receptor A2	4.60E-03	NM_010139
2618	Mynn	myoneurin	4.61E-03	NM_030557
2619	Bcs1l	BCS1-like (yeast)	4.61E-03	NM_025784

2620	Tex9	testis expressed gene 9	4.61E-03	NM_009359
2621	Stk24	serine/threonine kinase 24 (STE20 homolog, yeast)	4.61E-03	NM_145465
2622	Fgd2	FYVE, RhoGEF and PH domain containing 2	4.61E-03	NM_001159538 /// NM_013710
2623	Fbxo2	F-box protein 2	4.62E-03	NM_176848
2624	Acer2	alkaline ceramidase 2	4.62E-03	NM_139306
2625	Il4ra	interleukin 4 receptor, alpha	4.62E-03	NM_001008700
2626	U2af2	U2 small nuclear ribonucleoprotein auxiliary factor (U2AF) 2	4.63E-03	NM_133671
2627	Uqcrb	ubiquinol-cytochrome c reductase binding protein	4.63E-03	NM_026219
2628	Thoc4	THO complex 4	4.64E-03	NM_011568
2629	Pmm2	phosphomannomutase 2	4.64E-03	NM_016881
2630	Igh	immunoglobulin heavy chain complex	4.66E-03	---
2631	Tiam1	T-cell lymphoma invasion and metastasis 1	4.66E-03	NM_001145886 /// NM_001145887 /// NM_009384
2632	Wfikkn1	WAP, FS, Ig, KU, and NTR-containing protein 1	4.67E-03	NM_001100454 /// XM_128578 /// XM_914842
2633	Gstt3	glutathione S-transferase, theta 3	4.67E-03	NM_133994
2634	Map3k3	mitogen-activated protein kinase kinase kinase 3	4.68E-03	NM_011947
2635	Pvr12	poliovirus receptor-related 2	4.68E-03	NM_001159724 /// NM_008990
2636	Mrps9	mitochondrial ribosomal protein S9	4.70E-03	NM_023514
2637	Il1rl1	interleukin 1 receptor-like 1	4.70E-03	NM_001025602 /// NM_010743
2638	Snrnp40	small nuclear ribonucleoprotein 40 (U5)	4.70E-03	NM_025645
2639	Atp6v0a2	ATPase, H+ transporting, lysosomal V0 subunit A2	4.71E-03	NM_011596
2640	Htr1a	5-hydroxytryptamine (serotonin) receptor 1A	4.71E-03	NM_008308
2641	Coro2a	coronin, actin binding protein 2A	4.72E-03	NM_178893
2642	Ccr2	chemokine (C-C motif) receptor 2	4.72E-03	NM_009915
2643	Tom1	target of myb1 homolog (chicken)	4.72E-03	NM_001136259 /// NM_011622
2644	Dtymk	deoxythymidylate kinase	4.72E-03	NM_001105667 /// NM_023136
2645	Aqp7	aquaporin 7	4.73E-03	NM_007473
2646	Acpp	acid phosphatase, prostate	4.73E-03	NM_019807 /// NM_207668
2647	---	---	4.73E-03	---
2648	Dedd2	death effector domain-containing DNA binding protein 2	4.74E-03	NM_207677
2649	Dusp7	dual specificity phosphatase 7	4.74E-03	NM_153459
2650	Pigm	phosphatidylinositol glycan anchor biosynthesis, class M	4.75E-03	NM_026234
2651	Git1	G protein-coupled receptor kinase-interactor 1	4.75E-03	NM_001004144
2652	Lgals8	lectin, galactose binding, soluble 8	4.75E-03	NM_018886
2653	Acd /// Nsd1	adrenocortical dysplasia /// nuclear receptor-binding SET-domain protein 1	4.75E-03	NM_001012638 /// NM_008739
2654	Orm1	orosomucoid 1	4.75E-03	NM_008768
2655	Slc38a10	solute carrier family 38, member 10	4.76E-03	NM_024249
2656	1110031102RIK	RIKEN cDNA 1110031102 gene	4.77E-03	NM_025402
2657	---	---	4.77E-03	---
2658	Ilgp1	interferon inducible GTPase 1	4.79E-03	NM_001146275 /// NM_021792
2659	Atp2c1 /// LOC100045884	ATPase, Ca++-sequestering /// hypothetical protein LOC100045884	4.79E-03	NM_175025 /// XM_001475215
2660	Porcn	porcupine homolog (Drosophila)	4.79E-03	NM_016913 /// NM_023638 /// NM_145907 /// NM_145908
2661	AA881470	EST AA881470	4.80E-03	NM_172724 /// NM_181066
2662	Il22 /// Il1fb	interleukin 22 /// interleukin 10-related T cell-derived inducible factor beta	4.80E-03	NM_016971 /// NM_054079
2663	Ctage5	CTAGE family, member 5	4.80E-03	NM_146034
2664	Zfp59	zinc finger protein 59	4.81E-03	NM_011762
2665	Lmbrd1	LMBR1 domain containing 1	4.81E-03	NM_026719

2666	Endog	endonuclease G	4.82E-03	NM_007931
2667	Rpl12	ribosomal protein L12	4.82E-03	NM_009076
2668	Igk	immunoglobulin kappa chain complex	4.82E-03	---
2669	Tubb2c /// Tubb2c-ps2	tubulin, beta 2C /// tubulin, beta 2c, pseudogene 2	4.83E-03	NM_146116 /// XR_032016 /// XR_032129
2670	Cnm2	cyclin M2	4.86E-03	NM_001102471 /// NM_033569
2671	Rbm14	RNA binding motif protein 14	4.86E-03	NM_019869
2672	Nasp	nuclear autoantigenic sperm protein (histone-binding)	4.86E-03	NM_001081475 /// NM_016777
2673	Tshz2	teashirt zinc finger family member 2	4.86E-03	NM_080455
2674	LOC100048071 /// Tex21	similar to tsec-2 /// testis expressed gene 21	4.87E-03	NM_001159532 /// NM_019784 /// XR_034206
2675	LOC100046930 /// Sh2d1a	similar to T cell signal transduction molecule1 SAP /// SH2 domain protein 1A	4.87E-03	NM_011364 /// XM_001477084
2676	Mcoln1	mucopolin 1	4.87E-03	NM_053177
2677	Samd4	sterile alpha motif domain containing 4	4.89E-03	NM_001037221 /// NM_001163433 /// NM_028966
2678	Pmf1	polyamine-modulated factor 1	4.90E-03	NM_025928
2679	Cidec	cell death-inducing DFFA-like effector c	4.90E-03	NM_178373
2680	AU040320	expressed sequence AU040320	4.90E-03	NM_001035525 /// NM_001035526 /// NM_133886
2681	Ikbkb	inhibitor of kappaB kinase beta	4.90E-03	NM_001159774 /// NM_010546
2682	1810011010RIK	RIKEN cDNA 1810011010 gene	4.90E-03	NM_026931
2683	Rilpl1	Rab interacting lysosomal protein-like 1	4.90E-03	NM_021430
2684	Setdb1	SET domain, bifurcated 1	4.92E-03	NM_001163641 /// NM_001163642 /// NM_018877
2685	Rbm22	RNA binding motif protein 22	4.92E-03	NM_025776
2686	Map3k12	mitogen-activated protein kinase kinase kinase 12	4.92E-03	NM_001163643 /// NM_009582
2687	Eif4ebp2	eukaryotic translation initiation factor 4E binding protein 2	4.92E-03	NM_010124
2688	Dyrk3	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 3	4.93E-03	NM_145508
2689	Ap2b1	adaptor-related protein complex 2, beta 1 subunit	4.93E-03	NM_001035854 /// NM_027915
2690	Tlr7	toll-like receptor 7	4.94E-03	NM_133211
2691	Dhx9	DEAH (Asp-Glu-Ala-His) box polypeptide 9	4.96E-03	NM_007842
2692	Igh-6	Immunoglobulin heavy chain 6 (heavy chain of IgM)	4.96E-03	---
2693	Cnm2	cyclin M2	4.96E-03	NM_001102471 /// NM_033569
2694	Marveld3	MARVEL (membrane-associating) domain containing 3	4.97E-03	NM_028584 /// NM_212447
2695	Tep1	telomerase associated protein 1	4.97E-03	NM_009351
2696	Stk16	serine/threonine kinase 16	4.98E-03	NM_011494
2697	LOC100045999 /// Ran	similar to RAN, member RAS oncogene family /// RAN, member RAS oncogene famil	4.99E-03	NM_009391 /// XM_001475422
2698	Gltp	glycolipid transfer protein	4.99E-03	NM_019821
2699	Zfp790	zinc finger protein 790	5.00E-03	NM_001145880 /// NM_146185
2700	Mff	mitochondrial fission factor	5.00E-03	NM_029409
2701	Pkd1	polycystic kidney disease 1 homolog	5.01E-03	NM_013630
2702	Mcm4	minichromosome maintenance deficient 4 homolog (S. cerevisiae)	5.02E-03	NM_008565
2703	Ss18	synovial sarcoma translocation, Chromosome 18	5.02E-03	NM_001161369 /// NM_001161370 /// NM_001161371 /// NM_009280
2704	Rbm16	RNA binding motif protein 16	5.02E-03	NM_134123 /// XM_619423 /// XM_918778
2705	Rnf114	ring finger protein 114	5.02E-03	NM_030743
2706	Arfp2	ADP-ribosylation factor interacting protein 2	5.02E-03	NM_029802
2707	Dnajb6 /// LOC100048324	DnaJ (Hsp40) homolog, subfamily B, member 6 /// similar to DnaJ (Hsp40) homolog	5.04E-03	NM_001037940 /// NM_001037941 /// NM_001127367 /// NM_011847 /// XM
2708	Tmem159	transmembrane protein 159	5.04E-03	NM_145586
2709	Adamts1	a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin ty	5.05E-03	NM_009621
2710	Psm6	proteasome (prosome, macropain) 26S subunit, non-ATPase, 6	5.06E-03	NM_025550
2711	LOC100047393 /// Nae1	similar to Amyloid beta precursor protein binding protein 1 /// NEDD8 activating	5.07E-03	NM_144931 /// XM_001478170

2712	Myh6	myosin, heavy polypeptide 6, cardiac muscle, alpha	5.07E-03	NM_001164171 /// NM_010856
2713	Glx2	glutaredoxin 2 (thioltransferase)	5.07E-03	NM_001038592 /// NM_001038593 /// NM_001038594 /// NM_023505
2714	Tcea1	transcription elongation factor A (SII) 1	5.07E-03	NM_001159750 /// NM_001159751 /// NM_011541
2715	Cyb5	cytochrome b-5	5.08E-03	NM_025797
2716	Polr1a	polymerase (RNA) I polypeptide A	5.08E-03	NM_009088
2717	Tipr1	TIP41, TOR signalling pathway regulator-like (S. cerevisiae)	5.08E-03	NM_145513
2718	C79407	expressed sequence C79407	5.09E-03	NM_172578
2719	Atp11a	ATPase, class VI, type 11A	5.09E-03	NM_015804
2720	Itk	IL2-inducible T-cell kinase	5.10E-03	NM_010583
2721	Mospd2	motile sperm domain containing 2	5.10E-03	NM_029730
2722	Saps2	SAPS domain family, member 2	5.10E-03	NM_026813 /// NM_027805
2723	Epb4.1l2	erythrocyte protein band 4.1-like 2	5.11E-03	NM_013511
2724	Tyms	thymidylate synthase	5.12E-03	NM_021288
2725	Abhd4	abhydrolase domain containing 4	5.13E-03	NM_134076
2726	Gapdh	glyceraldehyde-3-phosphate dehydrogenase	5.14E-03	NM_008084
2727	1810019J16Rik	RIKEN cDNA 1810019J16 gene	5.14E-03	NM_001083916 /// NM_133707
2728	Phpp1	PH domain and leucine rich repeat protein phosphatase 1	5.15E-03	NM_133821 /// XM_001475839 /// XM_129968
2729	Egfl7	EGF-like domain 7	5.15E-03	NM_001164564 /// NM_178444 /// NM_198724 /// NM_198725
2730	Snx16	sorting nexin 16	5.15E-03	NM_001127191 /// NM_029068
2731	Galm	galactose mutarotase	5.17E-03	NM_176963
2732	Cib1	calcium and integrin binding 1 (calmyrin)	5.17E-03	NM_011870
2733	Pisd-ps3	phosphatidylserine decarboxylase, pseudogene 3	5.18E-03	NR_003518
2734	Cpeb4	cytoplasmic polyadenylation element binding protein 4	5.19E-03	NM_026252
2735	Smr2	submaxillary gland androgen regulated protein 2	5.19E-03	NM_021289
2736	4932425I24Rik	RIKEN cDNA 4932425I24 gene	5.19E-03	NM_001081025
2737	Rabif	RAB interacting factor	5.19E-03	NM_145510
2738	Clns1a	chloride channel, nucleotide-sensitive, 1A	5.20E-03	NM_023671
2739	Fkbp1a	FK506 binding protein 1a	5.20E-03	NM_008019
2740	Ltbp3	latent transforming growth factor beta binding protein 3	5.22E-03	NM_008520
2741	Rnpc3	RNA-binding region (RNP1, RRM) containing 3	5.22E-03	NM_001038696 /// NM_026043
2742	Gtf2f1	general transcription factor IIF, polypeptide 1	5.23E-03	NM_133801
2743	Cmtm8	CKLF-like MARVEL transmembrane domain containing 8	5.23E-03	NM_027294
2744	St13	Suppression of tumorigenicity 13	5.23E-03	NM_133726
2745	Map3k8	mitogen-activated protein kinase kinase kinase 8	5.24E-03	NM_007746
2746	Parp6	poly (ADP-ribose) polymerase family, member 6	5.24E-03	NM_029922
2747	Dclk1	doublecortin-like kinase 1	5.25E-03	NM_001111051 /// NM_001111052 /// NM_001111053 /// NM_019978
2748	Acp6	acid phosphatase 6, lysophosphatidic	5.26E-03	NM_019800
2749	LOC100046746 /// Smap1	similar to SMAP1 /// stromal membrane-associated protein 1	5.26E-03	NM_028534 /// XM_001476743
2750	Hmgcs2	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2	5.27E-03	NM_008256
2751	Pxn	paxillin	5.28E-03	NM_011223 /// NM_133915
2752	Sifn4	schlafen 4	5.29E-03	NM_011410
2753	Elk3	ELK3, member of ETS oncogene family	5.30E-03	NM_013508 /// NM_205536
2754	6720487G11Rik /// Zfp71-rs1	RIKEN cDNA 6720487G11 gene /// zinc finger protein 71, related sequence	5.30E-03	XM_620861 /// XM_990694
2755	Galr2	galanin receptor 2	5.31E-03	NM_010254
2756	Efnb2	ephrin B2	5.32E-03	NM_010111
2757	Cast	calpastatin	5.32E-03	NM_009817

2758	Cdkn2c	cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4)	5.33E-03	NM_007671
2759	Zfand2a	zinc finger, AN1-type domain 2A	5.33E-03	NM_001159908 /// NM_133349
2760	Cks2	CDC28 protein kinase regulatory subunit 2	5.33E-03	NM_025415
2761	Gap43	growth associated protein 43	5.35E-03	NM_008083
2762	Pcsk5	proprotein convertase subtilisin/kexin type 5	5.35E-03	NM_001163144 /// XM_129214 /// XM_987372
2763	Tspan3	tetraspanin 3	5.36E-03	NM_019793
2764	Mrps9	mitochondrial ribosomal protein S9	5.36E-03	NM_023514
2765	Myst3	MYST histone acetyltransferase (monocytic leukemia) 3	5.36E-03	NM_001081149
2766	Traf3ip2	TRAF3 interacting protein 2	5.38E-03	NM_134000
2767	Bcl2l14	BCL2-like 14 (apoptosis facilitator)	5.38E-03	NM_025778
2768	Zfp296	zinc finger protein 296	5.38E-03	NM_022409
2769	Igkv15-103	immunoglobulin kappa chain variable 15-103	5.39E-03	XM_001476407
2770	Trem3	triggering receptor expressed on myeloid cells 3	5.41E-03	NM_021407
2771	DXErttd223e	DNA segment, Chr X, ERATO Doi 223, expressed	5.41E-03	---
2772	Add3	adducin 3 (gamma)	5.43E-03	NM_001164099 /// NM_001164100 /// NM_001164101 /// NM_013758
2773	Kctd9	potassium channel tetramerisation domain containing 9	5.43E-03	NM_001111028 /// NM_134073
2774	Ctr9	Ctr9, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae)	5.44E-03	NM_009431
2775	Pou2f1	POU domain, class 2, transcription factor 1	5.44E-03	NM_011137 /// NM_198932 /// NM_198933 /// NM_198934
2776	Shmt2	serine hydroxymethyltransferase 2 (mitochondrial)	5.44E-03	NM_028230
2777	Slc20a1	solute carrier family 20, member 1	5.45E-03	NM_001159593 /// NM_015747
2778	Ldlrap1	low density lipoprotein receptor adaptor protein 1	5.45E-03	NM_145554
2779	Gadd45b	growth arrest and DNA-damage-inducible 45 beta	5.45E-03	NM_008655
2780	Htatsf1	HIV TAT specific factor 1	5.45E-03	NM_028242
2781	D030029J20Rik	RIKEN cDNA D030029J20 gene	5.45E-03	---
2782	Pgp	phosphoglycolate phosphatase	5.46E-03	NM_025954
2783	Masp2	mannan-binding lectin serine peptidase 2	5.46E-03	NM_001003893 /// NM_010767
2784	Nat6	N-acetyltransferase 6	5.47E-03	NM_019750
2785	Rab31	RAB31, member RAS oncogene family	5.48E-03	NM_133685
2786	Prkar1b	protein kinase, cAMP dependent regulatory, type I beta	5.49E-03	NM_008923
2787	Tmem38a	transmembrane protein 38A	5.49E-03	NM_144534
2788	Arhgef16	Rho guanine nucleotide exchange factor (GEF) 16	5.50E-03	NM_001112744 /// XM_149562 /// XM_902459
2789	Unc50	unc-50 homolog (C. elegans)	5.50E-03	NM_026123
2790	Amdhd1	amidohydrolase domain containing 1	5.51E-03	NM_027908 /// XM_125854 /// XM_990660
2791	Nap113	nucleosome assembly protein 1-like 3	5.53E-03	NM_138742
2792	Prkd1	protein kinase D1	5.54E-03	NM_008858
2793	Plscr1	phospholipid scramblase 1	5.54E-03	NM_011636
2794	1100001G20Rik	RIKEN cDNA 1100001G20 gene	5.55E-03	NM_183249
2795	Sgpl1	sphingosine phosphate lyase 1	5.57E-03	NM_009163
2796	Ipk6k1	inositol hexaphosphate kinase 1	5.57E-03	NM_013785
2797	Pts	6-pyruvoyl-tetrahydropterin synthase	5.58E-03	NM_011220
2798	Ube2e3	ubiquitin-conjugating enzyme E2E 3, UBC4/5 homolog (yeast)	5.58E-03	NM_009454
2799	Tpp2	tripeptidyl peptidase II	5.59E-03	NM_009418
2800	BC022687	cDNA sequence BC022687	5.60E-03	NM_145450
2801	Cldn1	claudin 1	5.60E-03	NM_016674
2802	Lims1	LIM and senescent cell antigen-like domains 1	5.61E-03	NM_026148
2803	Pafah2	platelet-activating factor acetylhydrolase 2	5.61E-03	NM_133880

2804	Ccr4	chemokine (C-C motif) receptor 4	5.61E-03	NM_009916
2805	Tjp2	tight junction protein 2	5.61E-03	NM_011597
2806	Smn1	survival motor neuron 1	5.62E-03	NM_011420
2807	Prss23	protease, serine, 23	5.62E-03	NM_029614
2808	Gm8203 /// H2afz	predicted gene 8203 /// H2A histone family, member Z	5.63E-03	NM_016750 /// XM_001000460 /// XM_001480384
2809	Serpib9	serine (or cysteine) peptidase inhibitor, clade B, member 9	5.64E-03	NM_009256
2810	Lym5	LYR motif containing 5	5.65E-03	NM_001163628 /// NM_133688
2811	Gm5806 /// Gm9855 /// Tdg	predicted gene 5806 /// predicted gene 9855 /// thymine DNA glycosylase	5.66E-03	NM_011561 /// NM_172552 /// XM_001479614 /// XM_001479618 /// XM_619
2812	Clip4	CAP-GLY domain containing linker protein family, member 4	5.67E-03	NM_030179 /// NM_175378
2813	Gorasp2	golgi reassembly stacking protein 2	5.69E-03	NM_027352 /// NR_027343
2814	Pdgfa	platelet derived growth factor, alpha	5.69E-03	NM_008808
2815	Oas1a	2'-5' oligoadenylate synthetase 1A	5.69E-03	NM_145211
2816	Col22a1	collagen, type XXII, alpha 1	5.70E-03	NM_027174 /// XM_907370 /// XM_981889
2817	Lsm3	LSM3 homolog, U6 small nuclear RNA associated (S. cerevisiae)	5.71E-03	NM_026309
2818	Acbd6	acyl-Coenzyme A binding domain containing 6	5.71E-03	NM_001145781 /// NM_026683 /// NM_028250
2819	Fgl2	fibrinogen-like protein 2	5.71E-03	NM_008013
2820	Crip1	cysteine-rich protein 1 (intestinal)	5.72E-03	NM_007763
2821	Vopp1	vesicular, overexpressed in cancer, prosurvival protein 1	5.72E-03	NM_146168
2822	Twf1	twinfilin, actin-binding protein, homolog 1 (Drosophila)	5.73E-03	NM_008971
2823	Snrnp48	small nuclear ribonucleoprotein 48 (U11/U12)	5.73E-03	NM_026382
2824	Sh3bgrl	SH3-binding domain glutamic acid-rich protein like	5.73E-03	NM_019989
2825	1200009O22Rik	RIKEN cDNA 1200009O22 gene	5.73E-03	NM_025817
2826	Id3	inhibitor of DNA binding 3	5.73E-03	NM_008321
2827	Cdc37	cell division cycle 37 homolog (S. cerevisiae)	5.75E-03	NM_016742
2828	Tbc1d23	TBC1 domain family, member 23	5.75E-03	NM_026254
2829	Tmem186	transmembrane protein 186	5.76E-03	NM_025708
2830	Fkbp1b	FK506 binding protein 1b	5.76E-03	NM_016863
2831	Urm1	ubiquitin related modifier 1 homolog (S. cerevisiae)	5.77E-03	NM_026615
2832	Rundc3a	RUN domain containing 3A	5.78E-03	NM_016759
2833	Gm9706 /// Isg15	predicted gene 9706 /// ISG15 ubiquitin-like modifier	5.78E-03	NM_015783 /// XM_001471685 /// XM_001471686 /// XR_005074 /// XR_034
2834	Pppde2	PPPDE peptidase domain containing 2	5.79E-03	NM_134095
2835	Tmem51	transmembrane protein 51	5.79E-03	NM_145402
2836	Fkbp3	FK506 binding protein 3	5.80E-03	NM_013902
2837	Hus1	Hus1 homolog (S. pombe)	5.80E-03	NM_008316
2838	Gda	guanine deaminase	5.81E-03	NM_010266
2839	Ugdh	UDP-glucose dehydrogenase	5.81E-03	NM_009466
2840	Nupl2	nucleoporin like 2	5.82E-03	NM_153092
2841	Baz2a	bromodomain adjacent to zinc finger domain, 2A	5.83E-03	NM_054078
2842	Cwf19l1	CWF19-like 1, cell cycle control (S. pombe)	5.83E-03	NM_001081077
2843	Reep1	receptor accessory protein 1	5.84E-03	NM_178608
2844	Cmb1	carboxymethylenebutenolidase-like (Pseudomonas)	5.84E-03	NM_181588
2845	Adamts5 /// LOC100048332	a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin ty	5.85E-03	NM_011782 /// XM_001480027
2846	Gm11663 /// Gm2992 /// Gm7	predicted gene 11663 /// predicted gene 2992 /// predicted gene 7862 /// high mo	5.85E-03	NM_008251 /// XR_032169 /// XR_032491 /// XR_032933 /// XR_033818 ///
2847	Gbf1	golgi-specific brefeldin A-resistance factor 1	5.85E-03	NM_178930
2848	Slc25a38	solute carrier family 25, member 38	5.85E-03	NM_144793
2849	Ckmt2	creatine kinase, mitochondrial 2	5.85E-03	NM_198415

2850	Pcyox1	prenylcysteine oxidase 1	5.86E-03	NM_025823
2851	Mapk1	mitogen-activated protein kinase 1	5.87E-03	NM_001038663 /// NM_011949
2852	C1qbp	complement component 1, q subcomponent binding protein	5.87E-03	NM_007573
2853	Map1lc3b	microtubule-associated protein 1 light chain 3 beta	5.87E-03	NM_026160
2854	Myt1l	myelin transcription factor 1-like	5.87E-03	NM_001093775 /// NM_001093776 /// NM_001093777 /// NM_008666 /// XM
2855	Lrrk1	leucine-rich repeat kinase 1	5.88E-03	NM_146191
2856	Scn3a	sodium channel, voltage-gated, type III, alpha	5.88E-03	NM_018732
2857	Syncrip	synaptotagmin binding, cytoplasmic RNA interacting protein	5.88E-03	NM_019666 /// NM_019796
2858	Ccnd3	cyclin D3	5.89E-03	NM_001081635 /// NM_001081636 /// NM_007632
2859	Cdc73	cell division cycle 73, Paf1/RNA polymerase II complex component, homolog (S. ce	5.89E-03	NM_145991
2860	Slc25a39	solute carrier family 25, member 39	5.89E-03	NM_026542
2861	LOC631302 /// Pqbp1	similar to polyglutamine binding protein 1 /// polyglutamine binding protein 1	5.90E-03	NM_019478 /// XM_919383
2862	Errf1	ERBB receptor feedback inhibitor 1	5.90E-03	NM_133753
2863	1110059G10Rik	RIKEN cDNA 1110059G10 gene	5.90E-03	NM_025419
2864	4933411G06Rik	RIKEN cDNA 4933411G06 gene	5.90E-03	XM_621219 /// XM_911175
2865	Cnn3 /// LOC100047856	calponin 3, acidic /// similar to calponin 3, acidic	5.92E-03	NM_028044 /// XM_001479297
2866	Vrk3	vaccinia related kinase 3	5.92E-03	NM_133945
2867	Ipo4	importin 4	5.93E-03	NM_024267
2868	Bcat1	branched chain aminotransferase 1, cytosolic	5.93E-03	NM_001024468 /// NM_007532
2869	Plod2	procollagen lysine, 2-oxoglutarate 5-dioxygenase 2	5.94E-03	NM_001142916 /// NM_011961
2870	Emp1	epithelial membrane protein 1	5.94E-03	NM_010128
2871	Matn4	matrilin 4	5.95E-03	NM_013592
2872	Inpp5b	inositol polyphosphate-5-phosphatase B	5.96E-03	NM_008385
2873	Acbd3	acyl-Coenzyme A binding domain containing 3	5.96E-03	NM_133225
2874	Sae1	SUMO1 activating enzyme subunit 1	5.97E-03	NM_019748
2875	Guca1a	guanylate cyclase activator 1a (retina)	5.97E-03	NM_008189
2876	Myoc	myocilin	5.98E-03	NM_010865
2877	Thoc3	THO complex 3	5.98E-03	NM_028597
2878	Pitpnc1	phosphatidylinositol transfer protein, cytoplasmic 1	5.99E-03	NM_145823
2879	Pros1	protein S (alpha)	6.00E-03	NM_011173
2880	Matn2	matrilin 2	6.00E-03	NM_016762
2881	Ilfg1	integrin alpha FG-GAP repeat containing 1	6.01E-03	NM_028007
2882	Usp24	ubiquitin specific peptidase 24	6.01E-03	XM_001473472 /// XM_001479517 /// XM_001481281 /// XM_915524
2883	Fzd7	frizzled homolog 7 (Drosophila)	6.02E-03	NM_008057
2884	Kctd20	potassium channel tetramerisation domain containing 20	6.04E-03	NM_025888
2885	Mtap4	microtubule-associated protein 4	6.05E-03	NM_008633
2886	Kif1b	kinesin family member 1B	6.06E-03	NM_008441 /// NM_207682
2887	Mfsd5	major facilitator superfamily domain containing 5	6.07E-03	NM_134100
2888	Cox7c /// Gm10012 /// Gm338	cytochrome c oxidase, subunit VIIc /// cytochrome c oxidase, subunit VIIc pseudo	6.07E-03	NM_007749 /// NR_028042 /// XM_001477253 /// XM_001477263 /// XM_00
2889	LOC100047619 /// Slc7a5	similar to solute carrier family 7 (cationic amino acid transporter, y+ system),	6.08E-03	NM_011404 /// XR_033736
2890	Vps11	vacuolar protein sorting 11 (yeast)	6.11E-03	NM_027889
2891	LOC100047492 /// Stk11ip	similar to serine/threonine kinase 11 interacting protein /// serine/threonine k	6.13E-03	NM_027886 /// XM_001478275
2892	Syngn2	synaptogyrin 2	6.13E-03	NM_009304
2893	Irf6	interferon regulatory factor 6	6.14E-03	NM_016851
2894	Nrip1	nuclear receptor interacting protein 1	6.14E-03	NM_173440
2895	Hlnfp /// LOC100045760	histone H4 transcription factor /// similar to MBD2-Interacting zinc finger	6.15E-03	NM_172162 /// XM_001474880

2896	Havcr2	hepatitis A virus cellular receptor 2	6.16E-03	NM_134250
2897	Tpi1	triosephosphate isomerase 1	6.17E-03	NM_009415
2898	Sfpq	splicing factor proline/glutamine rich (polypyrimidine tract binding protein ass	6.18E-03	NM_023603
2899	Rpgrip1	retinitis pigmentosa GTPase regulator interacting protein 1	6.18E-03	NM_023879
2900	Ccl11	chemokine (C-C motif) ligand 11	6.18E-03	NM_011330
2901	Thoc2	THO complex 2	6.19E-03	NM_001033422
2902	Ptprk	protein tyrosine phosphatase, receptor type, K	6.19E-03	NM_008983
2903	Mettl6	methyltransferase like 6	6.19E-03	NM_025907
2904	---	---	6.19E-03	---
2905	Grtp1	GH regulated TBC protein 1	6.19E-03	NM_025768
2906	Hmgcl	3-hydroxy-3-methylglutaryl-Coenzyme A lyase	6.20E-03	NM_008254
2907	Gh	growth hormone	6.23E-03	NM_008117
2908	Ola1	Obg-like ATPase 1	6.23E-03	NM_025942 /// NM_030091
2909	Sntb2	syntrophin, basic 2	6.23E-03	NM_009229
2910	Adi1	acireductone dioxygenase 1	6.24E-03	NM_134052
2911	Clptm1l	CLPTM1-like	6.24E-03	NM_146047
2912	Hsd17b2	hydroxysteroid (17-beta) dehydrogenase 2	6.25E-03	NM_008290
2913	Mrpl18	mitochondrial ribosomal protein L18	6.26E-03	NM_026310
2914	Snap23	synaptosomal-associated protein 23	6.26E-03	NM_009222
2915	Gmppa	GDP-mannose pyrophosphorylase A	6.27E-03	NM_133708
2916	Psrc1	proline/serine-rich coiled-coil 1	6.27E-03	NM_019976
2917	Snx15	sorting nexin 15	6.27E-03	NM_026912
2918	Mia3	melanoma inhibitory activity 3	6.27E-03	NM_177389
2919	AA408650	expressed sequence AA408650	6.27E-03	---
2920	Creg1	cellular repressor of E1A-stimulated genes 1	6.28E-03	NM_011804
2921	Ptp4a1	protein tyrosine phosphatase 4a1	6.28E-03	NM_011200
2922	Limd2	LIM domain containing 2	6.28E-03	NM_172397
2923	Ranbp10	RAN binding protein 10	6.29E-03	NM_145824
2924	LOC100046080 /// Spin1	similar to Spindlin 1 /// spindlin 1	6.30E-03	NM_011462 /// NM_146043 /// XM_001475418 /// XM_001475434
2925	Fam103a1	family with sequence similarity 103, member A1	6.30E-03	NM_025997
2926	Trim32	tripartite motif-containing 32	6.30E-03	NM_001161782 /// NM_053084
2927	Gngt1	guanine nucleotide binding protein (G protein), gamma transducing activity polyp	6.31E-03	NM_010314
2928	Dio2	deiodinase, iodothyronine, type II	6.32E-03	NM_010050
2929	Mapre3	microtubule-associated protein, RP/EB family, member 3	6.32E-03	NM_133350
2930	Sf3b1	splicing factor 3b, subunit 1	6.32E-03	NM_031179
2931	Thoc1	THO complex 1	6.33E-03	NM_153552
2932	Shoc2	soc-2 (suppressor of clear) homolog (C. elegans)	6.33E-03	NM_019658
2933	Midn	midnolin	6.34E-03	NM_021565
2934	A030009H04Rik	RIKEN cDNA A030009H04 gene	6.34E-03	NM_020591 /// NR_027827
2935	---	---	6.34E-03	---
2936	Pdlim5	PDZ and LIM domain 5	6.35E-03	NM_019808 /// NM_019809 /// NM_022554
2937	LOC100047046 /// Mogat1	similar to monoacylglycerol O-acyltransferase 1 /// monoacylglycerol O-acyltrans	6.35E-03	NM_026713 /// XM_001477283
2938	Zeb1	zinc finger E-box binding homeobox 1	6.36E-03	NM_011546
2939	Yipf2	Yip1 domain family, member 2	6.36E-03	NM_138303
2940	Slc39a11	solute carrier family 39 (metal ion transporter), member 11	6.36E-03	NM_027216
2941	Erap1	endoplasmic reticulum aminopeptidase 1	6.36E-03	NM_030711

2942	Pla1a	phospholipase A1 member A	6.37E-03	NM_134102
2943	Ptprb	protein tyrosine phosphatase, receptor type, B	6.38E-03	NM_029928
2944	Arih1	ariadne ubiquitin-conjugating enzyme E2 binding protein homolog 1 (Drosophila)	6.41E-03	NM_019927
2945	Hcfc1r1	host cell factor C1 regulator 1 (XPO1-dependent)	6.41E-03	NM_181821
2946	Cxcl10	chemokine (C-X-C motif) ligand 10	6.41E-03	NM_021274
2947	Nr4a2	nuclear receptor subfamily 4, group A, member 2	6.41E-03	NM_001139509 /// NM_013613
2948	Camk1	calcium/calmodulin-dependent protein kinase I	6.43E-03	NM_133926
2949	Aebp1	AE binding protein 1	6.43E-03	NM_009636
2950	Lrrc51	Leucine rich repeat containing 51	6.44E-03	NM_001162973 /// NM_001162974 /// NM_027053 /// XM_890234 /// XM_90
2951	Suv420h1	suppressor of variegation 4-20 homolog 1 (Drosophila)	6.44E-03	NM_144871
2952	2810449G22Rik	RIKEN cDNA 2810449G22 gene	6.44E-03	---
2953	Hexb	hexosaminidase B	6.45E-03	NM_010422
2954	Mlx	MAX-like protein X	6.45E-03	NM_001159384 /// NM_001159385 /// NM_011550
2955	---	---	6.46E-03	---
2956	Mapre1	microtubule-associated protein, RP/EB family, member 1	6.47E-03	NM_007896
2957	LOC100046746 /// Smap1	similar to SMAP1 /// stromal membrane-associated protein 1	6.48E-03	NM_028534 /// XM_001476743
2958	Ppp2r4	protein phosphatase 2A, regulatory subunit B (PR 53)	6.49E-03	NM_138748
2959	Rpl7l1	ribosomal protein L7-like 1	6.50E-03	NM_025433
2960	Gabbr1	gamma-aminobutyric acid (GABA) B receptor, 1	6.51E-03	NM_019439
2961	C1qc	complement component 1, q subcomponent, C chain	6.51E-03	NM_007574
2962	Usp16	ubiquitin specific peptidase 16	6.52E-03	NM_024258
2963	Unc119b	unc-119 homolog B (C. elegans)	6.52E-03	NM_175352

Table S2. Differentially expressed genes in Study 1 PC samples revealed by BETR

No.	Gene Symbol	Gene Title	RefSeq ID
1	1190002H23RIK	:RIKEN cDNA 1190002H23 gene	NM_025427
2	1810009A15RIK	:RIKEN cDNA 1810009A15 gene	NM_025463
3	2010107G23RIK	:RIKEN cDNA 2010107G23 gene	NM_027251
4	2310061J03RIK	:RIKEN cDNA 2310061J03 gene	NM_133677 /// NR_027965
5	2610018G03RIK	:RIKEN cDNA 2610018G03 gene	NM_133729
6	5730403B10RIK	:RIKEN cDNA 5730403B10 gene	NM_025670
7	5730403B10RIK	:RIKEN cDNA 5730403B10 gene	NM_025670
8	6720475J19RIK	:RIKEN cDNA 6720475J19 gene	XM_001474896 /// XM_001481296
9	9530028C05	:hypothetical protein 9530028C05	---
10	Abca8b	:ATP-binding cassette, sub-family A (ABC1), member 8b	NM_013851
11	Abhd14a	:abhydrolase domain containing 14A	NM_001110271 /// NM_001110272 /// NM_145919
12	Acs1l	:acyl-CoA synthetase long-chain family member 1	NM_007981
13	Adpgk	:ADP-dependent glucokinase	NM_028121
14	Aldh1a2	:aldehyde dehydrogenase family 1, subfamily A2	NM_009022
15	Antxr2	:anthrax toxin receptor 2	NM_133738
16	Arhgap6	:Rho GTPase activating protein 6	NM_009707 /// NM_178754
17	Asb4	:ankyrin repeat and SOCS box-containing 4	NM_023048
18	Asb4	:ankyrin repeat and SOCS box-containing 4	NM_023048
19	Bcl11a	:B-cell CLL/lymphoma 11A (zinc finger protein)	NM_001159289 /// NM_001159290 /// NM_016707
20	Bcl2l1	:BCL2-like 1	NM_009743
21	C1s /// LOC100044326	:complement component 1, s subcomponent /// similar to Complement component 1, s	NM_001097617 /// NM_144938 /// XR_030514
22	C3	:complement component 3	NM_009778
23	C4bp	:complement component 4 binding protein	NM_007576
24	Car15	:carbonic anhydrase 15	NM_030558
25	Car3	:carbonic anhydrase 3	NM_007606
26	Cat	:catalase	NM_009804
27	Cbr2	:carbonyl reductase 2	NM_007621
28	Cbx1	:chromobox homolog 1 (Drosophila HP1 beta)	NM_007622
29	Cbx1	:chromobox homolog 1 (Drosophila HP1 beta)	NM_007622
30	Ccdc23	:coiled-coil domain containing 23	NM_001038998 /// NM_024462
31	Ccdc80	:coiled-coil domain containing 80	NM_026439
32	Ccl8	:chemokine (C-C motif) ligand 8	NM_021443 /// XM_001480890
33	Ccl9	:chemokine (C-C motif) ligand 9	NM_011338
34	Ccp1	:cell cycle progression 1	NM_001114328 /// NM_028181
35	Cd163	:CD163 antigen	NM_053094
36	Cd36	:CD36 antigen	NM_001159555 /// NM_001159556 /// NM_001159557 /// NM_001159558 /// NM_007643
37	Cd36	:CD36 antigen	NM_001159555 /// NM_001159556 /// NM_001159557 /// NM_001159558 /// NM_007643
38	Cd47	:CD47 antigen (Rh-related antigen, integrin-associated signal transducer)	NM_010581
39	Cdcp1	:CUB domain containing protein 1	NM_133974
40	Ch25h	:cholesterol 25-hydroxylase	NM_009890
41	Cklf	:chemokine-like factor	NM_001037841 /// NM_029295
42	Cnn3 /// LOC100047856	:calponin 3, acidic /// similar to calponin 3, acidic	NM_028044 /// XM_001479297
43	Col14a1	:collagen, type XIV, alpha 1	NM_181277

44	Col3a1	:collagen, type III, alpha 1	NM_009930
45	Col6a1	:collagen, type VI, alpha 1	NM_009933
46	Col6a2	:collagen, type VI, alpha 2	NM_146007
47	Colec12	:collectin sub-family member 12	NM_130449
48	Ctsb	:cathepsin B	NM_007798
49	Ctsc	:cathepsin C	NM_009982
50	Ctse	:cathepsin E	NM_007799
51	Cxcl12	:chemokine (C-X-C motif) ligand 12	NM_001012477 /// NM_013655 /// NM_021704
52	Cxcl12	:chemokine (C-X-C motif) ligand 12	NM_001012477 /// NM_013655 /// NM_021704
53	Cxxc5	:CXXC finger 5	NM_133687
54	Cxxc5	:CXXC finger 5	NM_133687
55	Cyp1b1	:cytochrome P450, family 1, subfamily b, polypeptide 1	NM_009994
56	Cyp27a1	:cytochrome P450, family 27, subfamily a, polypeptide 1	NM_024264
57	Cyp2b10	:cytochrome P450, family 2, subfamily b, polypeptide 10	NM_009998 /// NM_009999
58	Cyp4v3	:cytochrome P450, family 4, subfamily v, polypeptide 3	NM_133969
59	Dap	:death-associated protein	NM_146057
60	Dcn	:decorin	NM_007833
61	Degs1	:degenerative spermatocyte homolog 1 (Drosophila)	NM_007853
62	Degs1	:degenerative spermatocyte homolog 1 (Drosophila)	NM_007853
63	Dek	:DEK oncogene (DNA binding)	NM_025900
64	Dnmt3a	:DNA methyltransferase 3A	NM_007872 /// NM_153743
65	Dpt	:dermatopontin	NM_019759
66	Dsp	:desmoplakin	NM_023842 /// XM_001481272 /// XM_621314 /// XM_896350
67	Dyrk1a	:dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1a	NM_001113389 /// NM_007890
68	Ear1 /// Ear12 /// Ear2 /// Ear3	:eosinophil-associated, ribonuclease A family, member 1 /// eosinophil-associated	NM_001012766 /// NM_007894 /// NM_007895 /// NM_017388
69	Ear2	:eosinophil-associated, ribonuclease A family, member 2	NM_007895
70	Efemp1	:epidermal growth factor-containing fibulin-like extracellular matrix protein 1	NM_146015
71	Egln1	:EGL nine homolog 1 (C. elegans)	NM_053207
72	Elf4e3	:eukaryotic translation initiation factor 4E member 3	NM_025829
73	Emb	:embigin	NM_010330
74	Emb	:embigin	NM_010330
75	Enpp2	:ectonucleotide pyrophosphatase/phosphodiesterase 2	NM_001136077 /// NM_015744
76	Entpd1	:ectonucleoside triphosphate diphosphohydrolase 1	NM_009848
77	Epha8	:Eph receptor A8	NM_007939
78	Extl2	:exostoses (multiple)-like 2	NM_001163514 /// NM_001163515 /// NM_021388
79	Extl2	:exostoses (multiple)-like 2	NM_001163514 /// NM_001163515 /// NM_021388
80	F13a1	:coagulation factor XIII, A1 subunit	NM_028784
81	Fabp4	:fatty acid binding protein 4, adipocyte	NM_024406
82	Fabp4	:fatty acid binding protein 4, adipocyte	NM_024406
83	Fbn1	:fibrillin 1	NM_007993
84	Fbxo28	:F-box protein 28	NM_175127
85	Fcgr3	:Fc receptor, IgG, low affinity III	NM_010188
86	Fhl1	:four and a half LIM domains 1	NM_001077361 /// NM_001077362 /// NM_010211
87	Fmod	:fibromodulin	NM_021355
88	Frmd6	:FERM domain containing 6	NM_028127
89	G0s2	:G0/G1 switch gene 2	NM_008059

90	Gbp2	:guanylate binding protein 2	NM_010260
91	Gbp2	:guanylate binding protein 2	NM_010260
92	Gfra3 /// LOC100045484	:glial cell line derived neurotrophic factor family receptor alpha 3 /// similar	NM_010280 /// XM_001474380
93	Gm11793 /// Hnrnpf	:predicted gene 11793 /// heterogeneous nuclear ribonucleoprotein F	NM_133834 /// XR_002079 /// XR_034451
94	Gm5529 /// Gm5560 /// Gm6159	:predicted gene 5529 /// predicted gene 5560 /// predicted gene 6425 /// predicted gene 6159	NM_001081233 /// NM_007451 /// XM_484885 /// XM_887851 /// XM_904056 /// XM_9076
95	Gm5560 /// Gm8429 /// Slc22a1	:predicted gene 5560 /// predicted gene 8429 /// solute carrier family 25 (mitochondrial)	NM_001081233 /// NM_007451 /// XR_033177
96	Gm6159 /// Hnrnpf	:predicted gene 6159 /// heterogeneous nuclear ribonucleoprotein R	NM_028871 /// XR_030753
97	Gm9844 /// Tmsb10	:predicted gene 9844 /// thymosin, beta 10	NM_001039392 /// NM_025284 /// XM_001478515 /// XM_001480801
98	Gnai1	:guanine nucleotide binding protein (G protein), alpha inhibiting 1	NM_010305
99	Gns	:glucosamine (N-acetyl)-6-sulfatase	NM_029364
100	Golm1	:golgi membrane protein 1	NM_001035122 /// NM_027307
101	Gp49a /// Liltrb4	:glycoprotein 49 A /// leukocyte immunoglobulin-like receptor, subfamily B, member 4	NM_008147 /// NM_013532
102	Gpatch8	:G patch domain containing 8	NM_001159492 /// XM_152907 /// XM_895150 /// XM_903059 /// XM_903060 /// XM_9030
103	Gpnmb	:glycoprotein (transmembrane) nmb	NM_053110
104	Gpr137b	:G protein-coupled receptor 137B	NM_031999
105	Gpr137b /// Gpr137b-ps /// LOC100045484	:G protein-coupled receptor 137B /// G protein-coupled receptor 137B, pseudogene	NM_031999 /// NR_003568 /// XM_001473441 /// XR_001658
106	Gpr137b-ps	:G protein-coupled receptor 137B, pseudogene	NR_003568 /// XR_001658
107	Gpr19	:G protein-coupled receptor 19	NM_008157
108	Gpx8	:glutathione peroxidase 8 (putative)	NM_027127
109	Grem2	:gremlin 2 homolog, cysteine knot superfamily (Xenopus laevis)	NM_011825
110	Gsn	:gelsolin	NM_146120
111	Gsn	:gelsolin	NM_146120
112	Gsp12	:G1 to S phase transition 2	NM_008179
113	Gsta4	:glutathione S-transferase, alpha 4	NM_010357
114	Gstt1	:glutathione S-transferase, theta 1	NM_008185
115	Hells	:helicase, lymphoid specific	NM_008234
116	Hmgn3	:high mobility group nucleosomal binding domain 3	NM_026122 /// NM_175074
117	Hnrnpu	:heterogeneous nuclear ribonucleoprotein U	NM_016805
118	Hoxc4	:homeo box C4	NM_013553
119	Hrh1 /// LOC100041871	:histamine receptor H1 /// similar to histamine receptor H1	NM_008285 /// XR_031594
120	Htra1	:HtrA serine peptidase 1	NM_019564
121	Ica1	:islet cell autoantigen 1	NM_010492
122	Ick	:intestinal cell kinase	NM_001163780 /// NM_019987
123	Ifi203	:interferon activated gene 203	NM_001045481 /// NM_008328
124	Ifi203	:interferon activated gene 203	NM_001045481 /// NM_008328
125	Ifi205 /// Mnda	:interferon activated gene 205 /// myeloid cell nuclear differentiation antigen	NM_001033450 /// NM_172648
126	Igf1	:insulin-like growth factor 1	NM_001111274 /// NM_001111275 /// NM_001111276 /// NM_010512 /// NM_184052
127	Igf1	:insulin-like growth factor 1	NM_001111274 /// NM_001111275 /// NM_001111276 /// NM_010512 /// NM_184052
128	Igh /// Ighg	:immunoglobulin heavy chain complex /// Immunoglobulin heavy chain (gamma polypeptide)	XM_001472541
129	Igh-6	:immunoglobulin heavy chain 6 (heavy chain of IgM)	---
130	Igh-6	:immunoglobulin heavy chain 6 (heavy chain of IgM)	---
131	Igk-V1	:immunoglobulin kappa chain variable 1 (V1)	---
132	Igl-V1	:immunoglobulin lambda chain, variable 1	---
133	Il2rg	:interleukin 2 receptor, gamma chain	NM_013563
134	Il7r	:interleukin 7 receptor	NM_008372
135	Impad1	:inositol monophosphatase domain containing 1	NM_177730

136	Itga6	:integrin alpha 6	NM_008397
137	Itga9	:integrin alpha 9	NM_001113514 /// NM_133721
138	Itih5	:inter-alpha (globulin) inhibitor H5	NM_172471
139	Jund	:Jun proto-oncogene related gene d	NM_010592
140	Kdm5b	:lysine (K)-specific demethylase 5B	NM_152895
141	Klhl13	:kelch-like 13 (Drosophila)	NM_026167
142	Klhl22	:kelch-like 22 (Drosophila)	NM_145479 /// XM_001475578 /// XM_001478907
143	Klk1	:kallikrein 1	NM_010639
144	Klk1	:kallikrein 1	NM_010639
145	Klk1b22 /// Klk1b9	:kallikrein 1-related peptidase b22 /// kallikrein 1-related peptidase b9	NM_010114 /// NM_010116
146	Klra17	:killer cell lectin-like receptor, subfamily A, member 17	NM_133203
147	Lcp1	:lymphocyte cytosolic protein 1	NM_008879
148	Lgals3	:lectin, galactose binding, soluble 3	NM_001145953 /// NM_010705
149	Lifr	:leukemia inhibitory factor receptor	NM_001113386 /// NM_013584
150	LOC100038746	:hypothetical LOC100038746	---
151	LOC100045999 /// LOC64020	:similar to RAN, member RAS oncogene family /// similar to RAN, member RAS oncoge	NM_009391 /// XM_001475422 /// XR_034742
152	LOC664787	:similar to Sp110 nuclear body protein	XR_030524
153	Lpl	:lipoprotein lipase	NM_008509
154	Lrrrip1	:leucine rich repeat (in FLII) interacting protein 1	NM_001111311 /// NM_001111312 /// NM_008515
155	Ly6d	:lymphocyte antigen 6 complex, locus D	NM_010742
156	Lyz2	:lysozyme 2	NM_017372
157	Man1a2	:mannosidase, alpha, class 1A, member 2	NM_010763
158	Map4k4	:mitogen-activated protein kinase kinase kinase 4	NM_008696
159	Mat2a	:methionine adenosyltransferase II, alpha	NM_145569
160	Matn2	:matrilin 2	NM_016762
161	Meg3	:maternally expressed 3	NR_003633 /// NR_027651 /// NR_027652 /// XR_035480 /// XR_035483 /// XR_035484
162	Metap2	:methionine aminopeptidase 2	NM_019648
163	Mfsd4	:major facilitator superfamily domain containing 4	NM_001114662 /// NM_172510
164	Mgst1	:microsomal glutathione S-transferase 1	NM_019946
165	Mpeg1	:macrophage expressed gene 1	NM_010821
166	Mrc1	:mannose receptor, C type 1	NM_008625
167	Ms4a6d	:membrane-spanning 4-domains, subfamily A, member 6D	NM_026835
168	Nav2	:neuron navigator 2	NM_001111016 /// NM_175272
169	Ndn	:necdin	NM_010882
170	Ndn	:necdin	NM_010882
171	Ndn	:necdin	NM_010882
172	Ndn	:necdin	NM_010882
173	Ndst1	:N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 1	NM_008306
174	Ndufa5	:NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5	NM_026614
175	Ndufv3	:NADH dehydrogenase (ubiquinone) flavoprotein 3	NM_001083891 /// NM_030087
176	Nek7	:NIMA (never in mitosis gene a)-related expressed kinase 7	NM_021605
177	Neurog3	:neurogenin 3	NM_009719
178	Nrp1	:neuropilin 1	NM_008737
179	Nrp1	:neuropilin 1	NM_008737
180	Nts	:neurotensin	NM_024435
181	Nucb2	:nucleobindin 2	NM_001130479 /// NM_016773

182	Ogn	:osteoglycin	NM_008760
183	Orc6l	:origin recognition complex, subunit 6-like (S. cerevisiae)	NM_001163791 /// NM_019716 /// NR_028268
184	Osbpl1a	:oxysterol binding protein-like 1A	NM_207530
185	Osbpl1a	:oxysterol binding protein-like 1A	NM_207530
186	Pcolce	:procollagen C-endopeptidase enhancer protein	NM_008788
187	Pdgfra	:platelet derived growth factor receptor, alpha polypeptide	NM_001083316 /// NM_011058
188	PF4	:platelet factor 4	NM_019932
189	Pfn2	:profilin 2	NM_019410
190	Pip5k1b	:phosphatidylinositol-4-phosphate 5-kinase, type 1 beta	NM_008846
191	Pitrm1	:pitrilysin metallopeptidase 1	NM_145131
192	Pkp4	:plakophilin 4	NM_026361 /// NM_175464
193	Plin2	:perilipin 2	NM_007408
194	Postn	:periostin, osteoblast specific factor	NM_015784
195	Ppap2a	:phosphatidic acid phosphatase type 2A	NM_008247 /// NM_008903
196	Ppap2a	:phosphatidic acid phosphatase type 2A	NM_008247 /// NM_008903
197	Ppap2b	:phosphatidic acid phosphatase type 2B	NM_080555
198	Prdx6	:peroxiredoxin 6	NM_007453
199	Prkcz	:protein kinase C, zeta	NM_001039079 /// NM_008860
200	Prpf19	:PRP19/PSO4 pre-mRNA processing factor 19 homolog (S. cerevisiae)	NM_134129
201	Prpf19	:PRP19/PSO4 pre-mRNA processing factor 19 homolog (S. cerevisiae)	NM_134129
202	Ptger4	:prostaglandin E receptor 4 (subtype EP4)	NM_001136079 /// NM_008965
203	Ptpn20	:protein tyrosine phosphatase, non-receptor type 20	NM_008978
204	Ptpn4	:protein tyrosine phosphatase, non-receptor type 4	NM_019933
205	Rdx	:radixin	NM_001104616 /// NM_001104617 /// NM_009041
206	Rdx	:radixin	NM_001104616 /// NM_001104617 /// NM_009041
207	Rdx	:radixin	NM_001104616 /// NM_001104617 /// NM_009041
208	Ripply3	:rippy3 homolog (zebrafish)	NM_133229
209	Rnase4	:ribonuclease, RNase A family 4	NM_021472 /// NM_201239
210	Robo1	:roundabout homolog 1 (Drosophila)	NM_019413
211	Rpn1	:ribophorin I	NM_133933
212	Rpn1	:ribophorin I	NM_133933
213	S100a10	:S100 calcium binding protein A10 (calpactin)	NM_009112
214	Sash1	:SAM and SH3 domain containing 1	NM_175155
215	Sdpr	:serum deprivation response	NM_138741
216	Sel1l	:sel-1 suppressor of lin-12-like (C. elegans)	NM_001039089 /// NM_011344
217	Sema3f	:sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphor	NM_011349
218	Serpini1	:serine (or cysteine) peptidase inhibitor, clade I, member 1	NM_009250
219	Sgk1	:serum/glucocorticoid regulated kinase 1	NM_001161845 /// NM_001161847 /// NM_001161848 /// NM_001161849 /// NM_001161850
220	Sgpp1	:sphingosine-1-phosphate phosphatase 1	NM_030750
221	Sh3kbp1	:SH3-domain kinase binding protein 1	NM_001135727 /// NM_001135728 /// NM_021389
222	Sil1	:endoplasmic reticulum chaperone SIL1 homolog (S. cerevisiae)	NM_030749
223	Slamf9	:SLAM family member 9	NM_029612
224	Slc12a8	:solute carrier family 12 (potassium/chloride transporters), member 8	NM_001083902 /// NM_134251
225	Slc1a1	:solute carrier family 1 (neuronal/epithelial high affinity glutamate transporter	NM_009199
226	Slc25a4	:solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator	NM_007450
227	Slc25a4	:solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator	NM_007450

228	Slc25a4	:solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator	NM_007450
229	Slit3	:Slit homolog 3 (Drosophila)	NM_011412
230	Smad7	:MAD homolog 7 (Drosophila)	NM_001042660
231	Smoc1	:SPARC related modular calcium binding 1	NM_001146217 /// NM_022316
232	Smyd2	:SET and MYND domain containing 2	NM_026796
233	Snrpn /// Snurf	:small nuclear ribonucleoprotein N /// SNRPN upstream reading frame	NM_001082961 /// NM_001082962 /// NM_013670 /// NM_033174
234	Sntg2	:syntrophin, gamma 2	NM_172951
235	Sod1	:superoxide dismutase 1, soluble	NM_011434
236	Spats2	:spermatogenesis associated, serine-rich 2	NM_139140
237	Spp1	:secreted phosphoprotein 1	NM_009263
238	Srgn	:serglycin	NM_011157
239	Stab1	:stabilin 1	NM_138672
240	Steap4	:STEAP family member 4	NM_054098
241	Tgfb2	:transforming growth factor, beta 2	NM_009367
242	Tgfb2	:transforming growth factor, beta 2	NM_009367
243	Tgfb1	:transforming growth factor, beta induced	NM_009369
244	Timp2	:tissue inhibitor of metalloproteinase 2	NM_011594
245	Tmeff2	:transmembrane protein with EGF-like and two follistatin-like domains 2	NM_019790
246	Tmem176a	:transmembrane protein 176A	NM_001098271 /// NM_025326
247	Tnfsf10	:tumor necrosis factor (ligand) superfamily, member 10	NM_009425
248	Trpc1	:transient receptor potential cation channel, subfamily C, member 1	NM_011643
249	Tshz1	:teashirt zinc finger family member 1	NM_001081300
250	Tspan15	:tetraspanin 15	NM_197996
251	Ttc39b	:tetratricopeptide repeat domain 39B	NM_027238
252	Ttc8	:tetratricopeptide repeat domain 8	NM_029553 /// NM_198311
253	Ubl5	:ubiquitin-like 5	NM_025401
254	Ugt1a1 /// Ugt1a10 /// Ugt1a11	:UDP glucuronosyltransferase 1 family, polypeptide A1 /// UDP glycosyltransferase	NM_013701 /// NM_145079 /// NM_201410 /// NM_201641 /// NM_201642 /// NM_201643
255	Uhrf1bp1l	:UHRF1 (ICBP90) binding protein 1-like	NM_029166
256	Usp2	:ubiquitin specific peptidase 2	NM_016808 /// NM_198091 /// NM_198092
257	Usp2	:ubiquitin specific peptidase 2	NM_016808 /// NM_198091 /// NM_198092
258	Usp3	:ubiquitin specific peptidase 3	NM_144937
259	Usp3	:ubiquitin specific peptidase 3	NM_144937
260	Vim	:vimentin	NM_011701
261	Wdr45	:WD repeat domain 45	NM_172372
262	Wdr81	:WD repeat domain 81	NM_138950 /// XM_001002633 /// XM_911699
263	Wwp1	:WW domain containing E3 ubiquitin protein ligase 1	NM_177327
264	Zadh2	:zinc binding alcohol dehydrogenase, domain containing 2	NM_146090
265	---	---	---
266	---	---	---

Table S3. Differentially expressed genes in Study 1 OG samples revealed by ANOVA

No.	Gene Symbol	Gene Title	p-value	RefSeq ID
1	Igh /// Igh-2 /// Igh-VJ558	immunoglobulin heavy chain complex /// immunoglobulin heavy chain 2 (ser	9.97E-09	---
2	Slpi	secretory leukocyte peptidase inhibitor	6.76E-07	NM_011414
3	Hpgd	hydroxyprostaglandin dehydrogenase 15 (NAD)	2.22E-06	NM_008278
4	Col14a1	collagen, type XIV, alpha 1	2.38E-06	NM_181277
5	Igh /// Igh-2 /// Igh-VJ558	immunoglobulin heavy chain complex /// immunoglobulin heavy chain 2 (ser	2.58E-06	---
6	Gm5560 /// Gm8429 /// Slc2	predicted gene 5560 /// predicted gene 8429 /// solute carrier family 25 (mit	2.85E-06	NM_001081233 /// NM_007451 /// XR_033177
7	Gpx1	glutathione peroxidase 1	4.02E-06	NM_008160
8	Cdc42se2	CDC42 small effector 2	4.08E-06	NM_178626
9	Ramp2	receptor (calcitonin) activity modifying protein 2	4.15E-06	NM_019444
10	Ddx26b	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 26B	4.27E-06	NM_172779
11	Pwp1	PWP1 homolog (S. cerevisiae)	4.92E-06	NM_133993
12	Ltbp2	latent transforming growth factor beta binding protein 2	5.07E-06	NM_013589
13	Tram1	translocating chain-associating membrane protein 1	9.53E-06	NM_028173
14	Col6a3	collagen, type VI, alpha 3	9.62E-06	XM_001474562 /// XM_897036
15	Edem1	ER degradation enhancer, mannosidase alpha-like 1	1.03E-05	NM_138677
16	Rbbp7	retinoblastoma binding protein 7	1.06E-05	NM_009031
17	Ero1lb	ERO1-like beta (S. cerevisiae)	1.37E-05	NM_026184
18	Atxn7	ataxin 7	1.46E-05	NM_139227
19	Igj	immunoglobulin joining chain	1.48E-05	NM_152839
20	Reln	reelin	1.61E-05	NM_011261
21	Rbbp7	retinoblastoma binding protein 7	2.05E-05	NM_009031
22	Postn	periostin, osteoblast specific factor	2.19E-05	NM_015784
23	Mbd1	methyl-CpG binding domain protein 1	2.38E-05	NM_013594
24	Dusp18	dual specificity phosphatase 18	2.54E-05	NM_173745
25	Lama2	laminin, alpha 2	2.58E-05	NM_008481
26	Ear1	eosinophil-associated, ribonuclease A family, member 1	2.68E-05	NM_007894
27	Nr4a1	nuclear receptor subfamily 4, group A, member 1	2.82E-05	NM_010444
28	RP23-195K8.6	hypothetical protein LOC622404	2.95E-05	NM_001037913
29	Sel1l	sel-1 suppressor of lin-12-like (C. elegans)	3.40E-05	NM_001039089 /// NM_011344
30	Sel1l	sel-1 suppressor of lin-12-like (C. elegans)	3.49E-05	NM_001039089 /// NM_011344
31	Elmo1	engulfment and cell motility 1, ced-12 homolog (C. elegans)	3.54E-05	NM_080288 /// NM_198093
32	Col14a1	collagen, type XIV, alpha 1	3.60E-05	NM_181277

33	Stard5	STAR-related lipid transfer (START) domain containing 5	3.71E-05	NM_023377
34	Nfkbiz	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta	3.74E-05	NM_001159394 /// NM_001159395 /// NM_030612
35	Slco2a1	solute carrier organic anion transporter family, member 2a1	3.78E-05	NM_033314
36	Ube2d3	ubiquitin-conjugating enzyme E2D 3 (UBC4/5 homolog, yeast)	3.90E-05	NM_025356
37	Acaa1a /// Acaa1b	acetyl-Coenzyme A acyltransferase 1A /// acetyl-Coenzyme A acyltransferase	4.08E-05	NM_130864 /// NM_146230
38	Svep1	sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1	4.11E-05	NM_022814
39	Il1rl1	interleukin 1 receptor-like 1	4.11E-05	NM_001025602 /// NM_010743
40	Irf3	interferon regulatory factor 3	4.28E-05	NM_016849
41	Ica1	islet cell autoantigen 1	4.29E-05	NM_010492
42	Gabpa	GA repeat binding protein, alpha	4.68E-05	NM_008065
43	Dnajc3	DnaJ (Hsp40) homolog, subfamily C, member 3	5.16E-05	NM_008929
44	Zfp521	zinc finger protein 521	5.25E-05	NM_145492 /// NM_181326
45	1500031L02Rik	RIKEN cDNA 1500031L02 gene	5.37E-05	NM_025892
46	Itsn2	intersectin 2	5.66E-05	NM_011365
47	Mosc2	MOCO sulphurase C-terminal domain containing 2	5.88E-05	NM_133684
48	Pgam1	phosphoglycerate mutase 1	5.88E-05	NM_023418
49	Scara5	scavenger receptor class A, member 5 (putative)	6.01E-05	NM_028903
50	Lifr	leukemia inhibitory factor receptor	6.47E-05	NM_001113386 /// NM_013584
51	Avpi1	arginine vasopressin-induced 1	7.04E-05	NM_027106
52	Igh /// LOC631129 /// LOC67	immunoglobulin heavy chain complex /// similar to Ig heavy chain V-III region	7.15E-05	XM_984967 /// XR_031667 /// XR_034099
53	Gorasp2	golgi reassembly stacking protein 2	8.00E-05	NM_027352 /// NR_027343
54	Fos	FBJ osteosarcoma oncogene	8.00E-05	NM_010234
55	Cand1	cullin associated and neddylation disassociated 1	8.93E-05	NM_027994 /// XM_125901 /// XM_904108
56	Prr13	proline rich 13	8.97E-05	NM_025385
57	Ptgs2	prostaglandin-endoperoxide synthase 2	9.23E-05	NM_011198
58	Gpnmb	glycoprotein (transmembrane) nmb	9.25E-05	NM_053110
59	Ccl11	chemokine (C-C motif) ligand 11	9.26E-05	NM_011330
60	Tm2d2	TM2 domain containing 2	9.66E-05	NM_027194
61	Pim3	proviral integration site 3	9.86E-05	NM_145478
62	Ythdf2	YTH domain family 2	9.87E-05	NM_145393
63	Trmt2a	TRM2 tRNA methyltransferase 2 homolog A (S. cerevisiae)	1.01E-04	NM_001080999 /// NM_001081000 /// NM_008307
64	Ck1f	chemokine-like factor	1.01E-04	NM_001037841 /// NM_029295
65	Abat	4-aminobutyrate aminotransferase	1.03E-04	NM_172961
66	Aldoa /// Aldoart1	aldolase A, fructose-bisphosphate /// aldolase 1, A isoform, retrogene 1	1.03E-04	NM_007438
67	Iars2	isoleucine-tRNA synthetase 2, mitochondrial	1.04E-04	NM_198653

68	LOC100047222 /// LOC67619	similar to anti-glycoprotein-B of human Cytomegalovirus immunoglobulin VI c	1.05E-04	XM_001477680 /// XM_988029
69	Txndc16	thioredoxin domain containing 16	1.07E-04	NM_172597
70	1110008F13Rik	RIKEN cDNA 1110008F13 gene	1.07E-04	NM_026124
71	PsmA6	proteasome (prosome, macropain) subunit, alpha type 6	1.18E-04	NM_011968
72	Ctsc	cathepsin C	1.20E-04	NM_009982
73	2310044G17Rik	RIKEN cDNA 2310044G17 gene	1.21E-04	NM_173735
74	Fh1	fumarate hydratase 1	1.24E-04	NM_010209
75	Brpf1	bromodomain and PHD finger containing, 1	1.27E-04	NM_030178
76	H2-Ke6	H2-K region expressed gene 6	1.30E-04	NM_013543
77	Wac	WW domain containing adaptor with coiled-coil	1.34E-04	NM_001146298 /// NM_153085 /// NR_027465
78	Fastkd2	FAST kinase domains 2	1.34E-04	NM_172422
79	Arf6	ADP-ribosylation factor 6	1.34E-04	NM_007481
80	Ear1 /// Ear12 /// Ear2 /// Ear3	eosinophil-associated, ribonuclease A family, member 1 /// eosinophil-associated	1.35E-04	NM_001012766 /// NM_007894 /// NM_007895 /// NM_017388
81	Antxr1	anthrax toxin receptor 1	1.35E-04	NM_054041
82	Pik3cg	phosphoinositide-3-kinase, catalytic, gamma polypeptide	1.41E-04	NM_001146200 /// NM_001146201 /// NM_020272
83	Cma1	chymase 1, mast cell	1.51E-04	NM_010780
84	Chd4	chromodomain helicase DNA binding protein 4	1.53E-04	NM_145979
85	Wipi1	WD repeat domain, phosphoinositide interacting 1	1.54E-04	NM_145940
86	Baz2a	bromodomain adjacent to zinc finger domain, 2A	1.57E-04	NM_054078
87	Grem2	gremlin 2 homolog, cysteine knot superfamily (Xenopus laevis)	1.57E-04	NM_011825
88	Pole2	polymerase (DNA directed), epsilon 2 (p59 subunit)	1.57E-04	NM_011133
89	B9d2	B9 protein domain 2	1.59E-04	NM_172148
90	Ptger4	prostaglandin E receptor 4 (subtype EP4)	1.62E-04	NM_001136079 /// NM_008965
91	Igfbp1	insulin-like growth factor binding protein 1	1.62E-04	NM_008341
92	Emr1	EGF-like module containing, mucin-like, hormone receptor-like sequence 1	1.62E-04	NM_010130
93	Idh3a	isocitrate dehydrogenase 3 (NAD+) alpha	1.63E-04	NM_029573
94	Ogt	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamin	1.64E-04	NM_139144
95	Thbs3	thrombospondin 3	1.64E-04	NM_013691
96	Comp	cartilage oligomeric matrix protein	1.69E-04	NM_016685
97	Tfpt	TCF3 (E2A) fusion partner	1.73E-04	NM_023524
98	---	---	1.73E-04	---
99	Clip1	CAP-GLY domain containing linker protein 1	1.80E-04	NM_019765
100	Star	steroidogenic acute regulatory protein	1.86E-04	NM_011485
101	Blk	B lymphoid kinase	1.87E-04	NM_007549
102	Dnajc1	DnaJ (Hsp40) homolog, subfamily C, member 1	1.96E-04	NM_007869

103	Clec2g	C-type lectin domain family 2, member g	1.98E-04	NM_027562
104	Egfl7	EGF-like domain 7	2.06E-04	NM_001164564 /// NM_178444 /// NM_198724 /// NM_198725
105	Dnajc8	DnaJ (Hsp40) homolog, subfamily C, member 8	2.09E-04	NM_172400
106	Nes	nestin	2.09E-04	NM_016701
107	Tfpi2	tissue factor pathway inhibitor 2	2.13E-04	NM_009364
108	Robo4	roundabout homolog 4 (Drosophila)	2.20E-04	NM_028783
109	Pld4	phospholipase D family, member 4	2.25E-04	NM_178911
110	Tmem109	transmembrane protein 109	2.29E-04	NM_134142
111	2010205A11Rik /// Gm10883	RIKEN cDNA 2010205A11 gene /// predicted gene 10883 /// predicted gene	2.29E-04	XM_001476664 /// XM_001476679 /// XM_001476703
112	Agpat5	1-acylglycerol-3-phosphate O-acyltransferase 5 (lysophosphatidic acid acyltra	2.29E-04	NM_026792
113	Cd38	CD38 antigen	2.35E-04	NM_007646
114	Id1	inhibitor of DNA binding 1	2.36E-04	NM_010495
115	Ncam1	neural cell adhesion molecule 1	2.37E-04	NM_001081445 /// NM_001113204 /// NM_010875
116	Chrnb1	cholinergic receptor, nicotinic, beta polypeptide 1 (muscle)	2.39E-04	NM_009601
117	Derl3	Der1-like domain family, member 3	2.42E-04	NM_024440
118	Cyb5d1 /// Gm6685	cytochrome b5 domain containing 1 /// cytochrome b5 domain containing 1 p	2.43E-04	NM_001045525 /// XM_484000 /// XM_901734 /// XM_904084 /// XM_9
119	Psat1	phosphoserine aminotransferase 1	2.46E-04	NM_177420
120	Pak2	p21 protein (Cdc42/Rac)-activated kinase 2	2.47E-04	NM_177326
121	Ddx19a	DEAD (Asp-Glu-Ala-Asp) box polypeptide 19a	2.56E-04	NM_007916
122	Rars2	arginyl-tRNA synthetase 2, mitochondrial	2.56E-04	NM_181406
123	Fibp	fibroblast growth factor (acidic) intracellular binding protein	2.58E-04	NM_021438
124	Cpa3	carboxypeptidase A3, mast cell	2.59E-04	NM_007753
125	Ube2b	ubiquitin-conjugating enzyme E2B, RAD6 homology (S. cerevisiae)	2.60E-04	NM_009458
126	Gzma	granzyme A	2.67E-04	NM_010370
127	Lysmd2	LysM, putative peptidoglycan-binding, domain containing 2	2.68E-04	NM_027309
128	Tes	testis derived transcript	2.72E-04	NM_011570 /// NM_207176
129	Dgka	diacylglycerol kinase, alpha	2.73E-04	NM_016811 /// XM_001475744 /// XM_001480976
130	Atp6v0c	ATPase, H+ transporting, lysosomal V0 subunit C	2.75E-04	NM_009729
131	Metap1	methionine aminopeptidase-like 1	2.79E-04	NM_025633
132	Itm2a	integral membrane protein 2A	2.84E-04	NM_008409
133	Cnot4	CCR4-NOT transcription complex, subunit 4	2.85E-04	NM_001164411 /// NM_001164412 /// NM_001164413 /// NM_0011644
134	Gramd3	GRAM domain containing 3	2.90E-04	NM_026240
135	Egr1	early growth response 1	2.90E-04	NM_007913
136	Psmb4	proteasome (prosome, macropain) subunit, beta type 4	2.97E-04	NM_008945

Table S4. Differentially expressed genes in Study 1 OG samples revealed by BETR

No.	Gene Symbol	Gene Title	RefSeq ID	Pathway
1	1100001G20Rik	RIKEN cDNA 1100001G20 gene	NM_183249	---
2	1110057K04Rik	RIKEN cDNA 1110057K04 gene	NM_172401	---
3	1810020D17Rik	RIKEN cDNA 1810020D17 gene	NM_183251	---
4	A530016L24Rik	RIKEN cDNA A530016L24 gene	NM_177039	---
5	Abat	4-aminobutyrate aminotransferase	NM_172961	---
6	Acly	ATP citrate lyase	NM_134037	Fatty_Acid_Synthesis // GenMAPP
7	Ada	adenosine deaminase	NM_007398	---
8	Adamts1	a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin ty	NM_009621	---
9	Adh1	alcohol dehydrogenase 1 (class I)	NM_007409	---
10	Adora1	adenosine A1 receptor	NM_001008533 // NM_001008533	GPCRDB_Other // GenMAPP /// Nucleotide_GPCRs // GenMAPP
11	AI324046	expressed sequence AI324046	---	---
12	Antxr1	anthrax toxin receptor 1	NM_054041	---
13	Apccd1	adenomatosis polyposis coli down-regulated 1	NM_133237	---
14	Btg2	B-cell translocation gene 2, anti-proliferative	NM_007570	---
15	Bub1b	budding uninhibited by benzimidazoles 1 homolog, beta (S. cerevisiae)	NM_009773	Cell_Cycle_KEGG // GenMAPP
16	Ccl11	chemokine (C-C motif) ligand 11	NM_011330	---
17	Ccnl1	cyclin L1	NM_019937	---
18	Cd163	CD163 antigen	NM_053094	---
19	Chpt1	choline phosphotransferase 1	NM_001146690 // NM_001146690	---
20	Cma1	chymase 1, mast cell	NM_010780	---
21	Col14a1	collagen, type XIV, alpha 1	NM_181277	---
22	Col14a1	collagen, type XIV, alpha 1	NM_181277	---
23	Col6a3	collagen, type VI, alpha 3	XM_001474562 // XM_001474562	---
24	Cpa3	carboxypeptidase A3, mast cell	NM_007753	---
25	Cspg4	chondroitin sulfate proteoglycan 4	NM_139001	---
26	Ctse	cathepsin E	NM_007799	---
27	Cyr61	cysteine rich protein 61	NM_010516	---
28	Cyr61	cysteine rich protein 61	NM_010516	---
29	Decr1	2,4-dienoyl CoA reductase 1, mitochondrial	NM_026172	---
30	Derl3	Der1-like domain family, member 3	NM_024440	---
31	Dhx32	DEAH (Asp-Glu-Ala-His) box polypeptide 32	NM_133941	---
32	Dnajc3	DnaJ (Hsp40) homolog, subfamily C, member 3	NM_008929	---
33	Dpysl3	dihydropyrimidinase-like 3	NM_001136086 // NM_001136086	---
34	Ear1	eosinophil-associated, ribonuclease A family, member 1	NM_007894	---
35	Ear1 /// Ear12 /// Ear2	eosinophil-associated, ribonuclease A family, member 1 /// eosinophil-associated	NM_001012766 // NM_001012766	---
36	Ear2	eosinophil-associated, ribonuclease A family, member 2	NM_007895	---
37	Edem1	ER degradation enhancer, mannosidase alpha-like 1	NM_138677	---
38	Egr1	early growth response 1	NM_007913	Ovarian_Infertility_Genes // GenMAPP
39	Egr2	early growth response 2	NM_010118	---
40	Elmo1	engulfment and cell motility 1, ced-12 homolog (C. elegans)	NM_080288 // NM_080288	---
41	Emr1	EGF-like module containing, mucin-like, hormone receptor-like sequence 1	NM_010130	GPCRDB_Class_B_Secretin-like // GenMAPP
42	Ero1b	ERO1-like beta (S. cerevisiae)	NM_026184	---
43	Errfi1	ERBB receptor feedback inhibitor 1	NM_133753	---

44	F13a1	coagulation factor XIII, A1 subunit	NM_028784	---
45	Fbln5	fibulin 5	NM_011812	---
46	Fkbp11	FK506 binding protein 11	NM_024169	---
47	Fos	FBJ osteosarcoma oncogene	NM_010234	Smooth_muscle_contraction // GenMAPP /// TGF_Beta_Signaling_Path
48	Gem	GTP binding protein (gene overexpressed in skeletal muscle)	NM_010276	---
49	Gm5560 /// Gm8429 ///	predicted gene 5560 /// predicted gene 8429 /// solute carrier family 25 (mitoch	NM_001081233 /// NM	Electron_Transport_Chain // GenMAPP
50	Gpc3	glypican 3	NM_016697	---
51	Gpnmb	glycoprotein (transmembrane) nmb	NM_053110	---
52	Grem2	gremlin 2 homolog, cysteine knot superfamily (Xenopus laevis)	NM_011825	---
53	Has1	hyaluronan synthase1	NM_008215	---
54	Hbb-b1 /// Hbb-b2	hemoglobin, beta adult major chain /// hemoglobin, beta adult minor chain	NM_008220 /// NM_0	Calcium_regulation_in_cardiac_cells // GenMAPP /// G_Protein_Signal
55	Hpgd	hydroxyprostaglandin dehydrogenase 15 (NAD)	NM_008278	Prostaglandin_synthesis_regulation // GenMAPP
56	Id3	inhibitor of DNA binding 3	NM_008321	---
57	Igh	immunoglobulin heavy chain complex	---	---
58	Igh	immunoglobulin heavy chain complex	---	---
59	Igh /// Igh-2 /// Igh-VJ5	immunoglobulin heavy chain complex /// immunoglobulin heavy chain 2 (serum IgA)	---	---
60	Igh /// Igh-2 /// Igh-VJ5	immunoglobulin heavy chain complex /// immunoglobulin heavy chain 2 (serum IgA)	---	---
61	Igh /// Ighg1	immunoglobulin heavy chain complex /// immunoglobulin heavy constant gamma 1 (G1	---	---
62	Igh /// LOC631129 /// L	immunoglobulin heavy chain complex /// similar to Ig heavy chain V-III region J6	XM_984967 /// XR_0	---
63	Igk-V19-14	Immunoglobulin kappa chain variable 19 (V19)-14	---	---
64	Il1rl1	interleukin 1 receptor-like 1	NM_001025602 /// NM	---
65	Il27ra	interleukin 27 receptor, alpha	NM_016671	---
66	Kcnk2	potassium channel, subfamily K, member 2	NM_001159850 /// NM	---
67	Klf4	Kruppel-like factor 4 (gut)	NM_010637	---
68	Klk8	kallikrein related-peptidase 8	NM_008940	---
69	Lama2	laminin, alpha 2	NM_008481	---
70	Lamb1-1	laminin B1 subunit 1	NM_008482	Inflammatory_Response_Pathway // GenMAPP
71	Ldlr	low density lipoprotein receptor	NM_010700	Statin_Pathway_PharmGKB // GenMAPP /// Wnt_Signaling // GenMAP
72	LOC100045982 /// Mosc	similar to MOSC domain-containing protein 1, mitochondrial /// MOCO sulphurase C	NM_001081361 /// XM	---
73	LOC100046643 /// Spry	similar to sprouty 1 /// sprouty homolog 1 (Drosophila)	NM_011896 /// XM_0	---
74	LOC100047162 /// LOC	similar to immunoglobulin kappa-chain /// similar to Ig kappa chain V-V region M	XM_001477552 /// XM	---
75	LOC100047222 /// LOC	similar to anti-glycoprotein-B of human Cytomegalovirus immunoglobulin VI chain	XM_001477680 /// XM	---
76	Ltbp2	latent transforming growth factor beta binding protein 2	NM_013589	---
77	Lyplal1	lysophospholipase-like 1	NM_146106	---
78	Matn2	matrilin 2	NM_016762	---
79	Mbd1	methyl-CpG binding domain protein 1	NM_013594	---
80	Meg3	maternally expressed 3	NR_003633 /// NR_0	---
81	Mfap5	microfibrillar associated protein 5	NM_015776	---
82	Mgst2	microsomal glutathione S-transferase 2	NM_174995	---
83	Mt1	metallothionein 1	NM_013602	---
84	Mtap	methylthioadenosine phosphorylase	NM_024433	---
85	Nacc2	nucleus accumbens associated 2, BEN and BTB (POZ) domain containing	NM_001037098 /// NM	---
86	Ncam1	neural cell adhesion molecule 1	NM_001081445 /// NM	---
87	Ndn	necdin	NM_010882	---
88	Nov	nephroblastoma overexpressed gene	NM_010930	---
89	Nr4a1	nuclear receptor subfamily 4, group A, member 1	NM_010444	Nuclear_Receptors // GenMAPP

90	Odz3	odd Oz/ten-m homolog 3 (Drosophila)	NM_001145937 /// NM	---
91	Pcolce2	procollagen C-endopeptidase enhancer 2	NM_029620	---
92	Postn	periostin, osteoblast specific factor	NM_015784	---
93	Psat1	phosphoserine aminotransferase 1	NM_177420	---
94	Ptger3	prostaglandin E receptor 3 (subtype EP3)	NM_011196	GPCRDB_Class_A_Rhodopsin-like // GenMAPP /// Prostaglandin_synth
95	Ptgs2	prostaglandin-endoperoxide synthase 2	NM_011198	Eicosanoid_Synthesis // GenMAPP /// Prostaglandin_synthesis_regulat
96	Ptprd	protein tyrosine phosphatase, receptor type, D	NM_001014288 /// NM	---
97	Pvr12	poliovirus receptor-related 2	NM_001159724 /// NM	---
98	Pxmp2	peroxisomal membrane protein 2	NM_008993	---
99	Ramp2	receptor (calcitonin) activity modifying protein 2	NM_019444	Smooth_muscle_contraction // GenMAPP
100	Rdh10	retinol dehydrogenase 10 (all-trans)	NM_133832	---
101	Rein	reelin	NM_011261	---
102	Scara5	scavenger receptor class A, member 5 (putative)	NM_028903	---
103	Sdpr	serum deprivation response	NM_138741	---
104	Sel1l	sel-1 suppressor of lin-12-like (C. elegans)	NM_001039089 /// NM	---
105	Sel1l	sel-1 suppressor of lin-12-like (C. elegans)	NM_001039089 /// NM	---
106	Selk	selenoprotein K	NM_019979	---
107	Sema5a	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembran	NM_009154	---
108	Sipi	secretory leukocyte peptidase inhibitor	NM_011414	---
109	Star	steroidogenic acute regulatory protein	NM_011485	---
110	Stbd1	starch binding domain 1	NM_175096	Circadian_Exercise // GenMAPP
111	Svep1	sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1	NM_022814	---
112	Tfpi2	tissue factor pathway inhibitor 2	NM_009364	---
113	Tmem109	transmembrane protein 109	NM_134142	---
114	Tnfrsf17	tumor necrosis factor receptor superfamily, member 17	NM_011608	---
115	Txndc5	thioredoxin domain containing 5	NM_145367	---
116	Vcan	versican	NM_001081249 /// NM	---
117	Zfp521	zinc finger protein 521	NM_145492 /// NM_1	---

Table S5. Differentially expressed genes in Study 2 PC samples revealed by ANOVA

No.	Gene Symbol	Gene Title	p-value	RefSeq ID
1	Gaa	glucosidase, alpha, acid	4.93E-10	NM_001159324 /// NM_008064
2	Entpd1	ectonucleoside triphosphate diphosphohydrolase 1	2.29E-09	NM_009848
3	Smc6	structural maintenance of chromosomes 6	4.95E-09	NM_025695
4	Clcn5	chloride channel 5	6.66E-09	NM_016691
5	Nbea	neurobeachin	8.98E-09	NM_030595
6	Extl2	exostosins (multiple)-like 2	1.73E-08	NM_001163514 /// NM_001163515 /// NM_021388
7	Osbpl1a	oxysterol binding protein-like 1A	2.51E-08	NM_207530
8	Ero1l	ERO1-like (S. cerevisiae)	3.26E-08	NM_015774
9	Cd163	CD163 antigen	3.90E-08	NM_053094
10	Gjc1	gap junction protein, gamma 1	4.03E-08	NM_001159382 /// NM_001159383 /// NM_008122
11	Sel1l	sel-1 suppressor of lin-12-like (C. elegans)	4.77E-08	NM_001039089 /// NM_011344
12	Smc1a	structural maintenance of chromosomes 1A	7.09E-08	NM_019710
13	Ebf2	early B-cell factor 2	8.18E-08	NM_010095
14	Fzd4	frizzled homolog 4 (Drosophila)	8.58E-08	NM_008055
15	Plbd2	phospholipase B domain containing 2	1.01E-07	NM_023625
16	Enah	enabled homolog (Drosophila)	1.13E-07	NM_001083120 /// NM_001083121 /// NM_008680 /// NM_010135
17	Tubb2b	tubulin, beta 2B	1.27E-07	NM_023716
18	Ssr1	signal sequence receptor, alpha	1.29E-07	NM_025965
19	Gdap2	ganglioside-induced differentiation-associated-protein 2	1.40E-07	NM_010269
20	Rgs4	regulator of G-protein signaling 4	1.47E-07	NM_009062
21	Tshz1	teashirt zinc finger family member 1	1.53E-07	NM_001081300
22	---	---	1.63E-07	---
23	Tmem134	transmembrane protein 134	1.66E-07	NM_001078649 /// NM_025889
24	Serbp1	serpine1 mRNA binding protein 1	1.68E-07	NM_001113564 /// NM_001113565 /// NM_001113566 /// NM_025814
25	Gipc1	GIPC PDZ domain containing family, member 1	1.84E-07	NM_018771
26	Phf17	PHD finger protein 17	1.88E-07	NM_001130184 /// NM_001130185 /// NM_001130186 /// NM_172303
27	Elf2ak3	eukaryotic translation initiation factor 2 alpha kinase 3	1.92E-07	NM_010121
28	Rock2	Rho-associated coiled-coil containing protein kinase 2	1.92E-07	NM_009072
29	Usp34	ubiquitin specific peptidase 34	2.18E-07	XM_483996
30	B3gat3	beta-1,3-glucuronyltransferase 3 (glucuronosyltransferase I)	2.18E-07	NM_024256
31	Wnk1	WNK lysine deficient protein kinase 1	2.29E-07	NM_198703
32	Cep290	centrosomal protein 290	2.39E-07	NM_146009
33	Lpp	LIM domain containing preferred translocation partner in lipoma	2.42E-07	NM_001145952 /// NM_001145954 /// NM_178665
34	Rsrc2	arginine/serine-rich coiled-coil 2	2.67E-07	NM_001005523 /// NM_001005525 /// NM_025438
35	Mela	melanoma antigen	2.72E-07	NM_008581
36	Nol3	nucleolar protein 3 (apoptosis repressor with CARD domain)	2.75E-07	NM_030152
37	LOC100048413 /// Mlf2	similar to Myeloid leukemia factor 2 /// myeloid leukemia factor 2	2.84E-07	NM_145385 /// XM_001480186
38	Klra17	killer cell lectin-like receptor, subfamily A, member 17	3.09E-07	NM_133203
39	AA517023	expressed sequence AA517023	3.17E-07	---
40	Serpini1	serine (or cysteine) peptidase inhibitor, clade I, member 1	3.22E-07	NM_009250
41	Carhsp1	calcium regulated heat stable protein 1	3.24E-07	NM_025821
42	Dclk1	doublecortin-like kinase 1	3.68E-07	NM_001111051 /// NM_001111052 /// NM_001111053 /// NM_019978
43	Hist1h3d	histone cluster 1, H3d	4.10E-07	NM_178204

44	Usp14	ubiquitin specific peptidase 14	4.29E-07	NM_001038589 /// NM_021522
45	Hlcs	holocarboxylase synthetase (biotin- [propionyl-Coenzyme A-carboxylase (ATP-hydro	4.45E-07	NM_139145
46	Akap12	A kinase (PRKA) anchor protein (gravin) 12	4.58E-07	NM_031185
47	Atf7	activating transcription factor 7	4.72E-07	NM_146065
48	Dok3	docking protein 3	4.73E-07	NM_013739
49	LOC100047840 /// Stap1	similar to stem cell adaptor protein STAP-1 /// signal transducing adaptor famil	4.77E-07	NM_019992 /// XM_001479407 /// XM_001479415
50	Rab25	RAB25, member RAS oncogene family	5.19E-07	NM_016899
51	Gnai1	guanine nucleotide binding protein (G protein), alpha inhibiting 1	5.44E-07	NM_010305
52	Edem2	ER degradation enhancer, mannosidase alpha-like 2	5.88E-07	NM_145537
53	Neu1	neuraminidase 1	7.57E-07	NM_010893
54	2310061J03Rik	RIKEN cDNA 2310061J03 gene	7.99E-07	NM_133677 /// NR_027965
55	Alpl	alkaline phosphatase, liver/bone/kidney	8.49E-07	NM_007431
56	Atrx	alpha thalassemia/mental retardation syndrome X-linked homolog (human)	8.51E-07	NM_009530
57	Elf2ak3 /// LOC100047634	eukaryotic translation initiation factor 2 alpha kinase 3 /// similar to Eukaryo	8.96E-07	NM_010121 /// XR_032896
58	Ssx2ip	synovial sarcoma, X breakpoint 2 interacting protein	8.96E-07	NM_138744
59	Tanc1	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1	9.87E-07	NM_198294
60	Usf1	upstream transcription factor 1	9.99E-07	NM_009480
61	Nedd4	neural precursor cell expressed, developmentally down-regulated 4	1.00E-06	NM_010890
62	Pdik11	PDLIM1 interacting kinase 1 like	1.05E-06	NM_001163794 /// NM_146156
63	Trib2	tribbles homolog 2 (Drosophila)	1.24E-06	NM_144551 /// XM_001474232 /// XM_001480364
64	Mela	Melanoma antigen	1.24E-06	NM_008581
65	Nap113	nucleosome assembly protein 1-like 3	1.32E-06	NM_138742
66	Rfc1	replication factor C (activator 1) 1	1.43E-06	NM_011258
67	Abcg2	ATP-binding cassette, sub-family G (WHITE), member 2	1.48E-06	NM_011920
68	Mtf2	metal response element binding transcription factor 2	1.93E-06	NM_013827
69	Rab3d	RAB3D, member RAS oncogene family	1.94E-06	NM_031874
70	Enah	enabled homolog (Drosophila)	1.96E-06	NM_001083120 /// NM_001083121 /// NM_008680 /// NM_010135
71	Cpsf2	cleavage and polyadenylation specific factor 2	2.02E-06	NM_016856
72	Dclk1	doublecortin-like kinase 1	2.08E-06	NM_001111051 /// NM_001111052 /// NM_001111053 /// NM_019978
73	Atg4d	autophagy-related 4D (yeast)	2.10E-06	NM_153583
74	---	---	2.15E-06	---
75	Commd5	COMM domain containing 5	2.24E-06	NM_025536
76	Cdc5l	cell division cycle 5-like (S. pombe)	2.37E-06	NM_152810
77	Bzw2	basic leucine zipper and W2 domains 2	2.37E-06	NM_025840
78	Kdm5a	lysine (K)-specific demethylase 5A	2.65E-06	NM_145997 /// XM_359326 /// XM_925213 /// XM_979596
79	Lipt1	lipoyltransferase 1	2.81E-06	NM_001037918
80	Lamc1	laminin, gamma 1	2.90E-06	NM_010683
81	Txnrd1	thioredoxin reductase 1	2.97E-06	NM_001042513 /// NM_001042514 /// NM_001042523 /// NM_015762
82	Ccng2	cyclin G2	3.00E-06	NM_007635
83	Xiap	X-linked inhibitor of apoptosis	3.08E-06	NM_009688
84	P2ry14	purinergic receptor P2Y, G-protein coupled, 14	3.11E-06	NM_001008497 /// NM_133200
85	Birc6	baculoviral IAP repeat-containing 6	3.18E-06	NM_007566
86	Tmem9	transmembrane protein 9	3.24E-06	NM_001160145 /// NM_001160146 /// NM_025439
87	1190002N15Rik /// LOC100044725	RIKEN cDNA 1190002N15 gene /// hypothetical protein LOC100044725	3.50E-06	NM_001033145 /// XM_001472923
88	Cited2	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain,	3.60E-06	NM_010828
89	Cbx5	chromobox homolog 5 (Drosophila HP1a)	3.63E-06	NM_001076789 /// NM_001110216 /// NM_007626

90	Serf1	small EDRK-rich factor 1	3.73E-06	NM_011353
91	Ccr9	chemokine (C-C motif) receptor 9	4.05E-06	NM_009913
92	Mela	melanoma antigen	4.09E-06	NM_008581
93	Arsg	arylsulfatase G	4.10E-06	NM_028710
94	Snx18	sorting nexin 18	4.14E-06	NM_130796
95	Bmi1	Bmi1 polycomb ring finger oncogene	4.65E-06	NM_007552
96	Hdac11	histone deacetylase 11	4.80E-06	NM_144919
97	Usp5	ubiquitin specific peptidase 5 (isopeptidase T)	5.05E-06	NM_013700
98	Ptrh1	peptidyl-tRNA hydrolase 1 homolog (S. cerevisiae)	5.18E-06	NM_178595
99	Elf2	E74-like factor 2	5.23E-06	NM_023502
100	Chac2	ChaC, cation transport regulator homolog 2 (E. coli)	5.51E-06	NM_026527
101	---	---	5.54E-06	---
102	Kcnn4	potassium intermediate/small conductance calcium-activated channel, subfamily N,	5.80E-06	NM_001163510 /// NM_008433
103	Pgs1	phosphatidylglycerophosphate synthase 1	6.61E-06	NM_133757
104	A230046K03Rik	RIKEN cDNA A230046K03 gene	6.73E-06	NM_001033375
105	Ebf3	early B-cell factor 3	7.11E-06	NM_001113414 /// NM_001113415 /// NM_010096
106	Ckap4	cytoskeleton-associated protein 4	7.25E-06	NM_175451
107	Jam2	junction adhesion molecule 2	7.39E-06	NM_023844
108	Spint2	serine protease inhibitor, Kunitz type 2	7.46E-06	NM_001082548 /// NM_011464
109	Cbl /// LOC100048010	Casitas B-lineage lymphoma /// similar to Casitas B-lineage lymphoma	7.65E-06	NM_007619 /// XR_034155
110	Rbx1	ring-box 1	7.79E-06	NM_019712
111	Ndn	necdin	7.89E-06	NM_010882
112	Derl2	Der1-like domain family, member 2	7.93E-06	NM_033562
113	Stxbp2	syntaxin binding protein 2	8.05E-06	NM_011503
114	Rap2b	RAP2B, member of RAS oncogene family	8.06E-06	NM_028712
115	Rnf38	ring finger protein 38	8.14E-06	NM_001038993 /// NM_175201
116	3830406C13Rik	RIKEN cDNA 3830406C13 gene	8.36E-06	NM_146051 /// NM_178141
117	Emb	embigin	8.72E-06	NM_010330
118	Wdr54	WD repeat domain 54	9.09E-06	NM_023790
119	Zfp148	zinc finger protein 148	9.26E-06	NM_011749
120	Ppp1r2	protein phosphatase 1, regulatory (inhibitor) subunit 2	9.30E-06	NM_025800
121	Fam20b	family with sequence similarity 20, member B	9.33E-06	NM_145413
122	Ttc14	tetratricopeptide repeat domain 14	9.42E-06	NM_025978 /// NM_027619
123	Jmjd6	jumonji domain containing 6	1.00E-05	NM_033398
124	Kif16b	kinesin family member 16B	1.01E-05	NM_001081133
125	Ncln	nicalin homolog (zebrafish)	1.02E-05	NM_134009
126	Fam98c	family with sequence similarity 98, member C	1.03E-05	NM_001146023 /// NM_028661
127	Csnk1e	casein kinase 1, epsilon	1.04E-05	NM_013767
128	Sdc4	syndecan 4	1.04E-05	NM_011521
129	4732418C07Rik	RIKEN cDNA 4732418C07 gene	1.07E-05	NM_172698
130	Kif16b	kinesin family member 16B	1.10E-05	NM_001081133
131	Gtpbp4	GTP binding protein 4	1.12E-05	NM_027000
132	Vpreb3	pre-B lymphocyte gene 3	1.13E-05	NM_009514
133	D6Wsu116e	DNA segment, Chr 6, Wayne State University 116, expressed	1.16E-05	NM_026585
134	Diap2	diaphanous homolog 2 (Drosophila)	1.16E-05	NM_017398 /// NM_172493
135	1810063B05Rik	RIKEN cDNA 1810063B05 gene	1.17E-05	NM_174987

136	Snap23	synaptosomal-associated protein 23	1.18E-05	NM_009222
137	Ahcy1	S-adenosylhomocysteine hydrolase-like 1	1.22E-05	NM_145542
138	Sptlc1	serine palmitoyltransferase, long chain base subunit 1	1.23E-05	NM_009269
139	BC013529	cDNA sequence BC013529	1.24E-05	NM_145418
140	---	---	1.25E-05	---
141	Drap1	Dr1 associated protein 1 (negative cofactor 2 alpha)	1.25E-05	NM_024176
142	Cldn6	claudin 6	1.28E-05	NM_018777
143	Mgat2	mannoside acetylglucosaminyltransferase 2	1.31E-05	NM_146035
144	Ppil2	peptidylprolyl isomerase (cyclophilin)-like 2	1.32E-05	NM_144954
145	Dedd2	death effector domain-containing DNA binding protein 2	1.32E-05	NM_207677
146	Tmem49	transmembrane protein 49	1.35E-05	NM_029478
147	---	---	1.40E-05	---
148	Tor2a	torsin family 2, member A	1.42E-05	NM_152800
149	Cd36	CD36 antigen	1.46E-05	NM_001159555 /// NM_001159556 /// NM_001159557 /// NM_001159558
150	Ssx2ip	synovial sarcoma, X breakpoint 2 interacting protein	1.55E-05	NM_138744
151	Scrn2	secernin 2	1.57E-05	NM_146027
152	Clec14a	C-type lectin domain family 14, member a	1.59E-05	NM_025809
153	Farp2	FERM, RhoGEF and pleckstrin domain protein 2	1.60E-05	NM_145519
154	Plxnc1	plexin C1	1.61E-05	NM_018797
155	BC003940	cDNA sequence BC003940	1.63E-05	NM_001033231
156	Sf3a3	splicing factor 3a, subunit 3	1.71E-05	NM_029157
157	Ndn	necdin	1.72E-05	NM_010882
158	Limch1	LIM and calponin homology domains 1	1.74E-05	NM_001001980
159	Thoc2	THO complex 2	1.75E-05	NM_001033422
160	Tspyl1	testis-specific protein, Y-encoded-like 1	1.83E-05	NM_009433
161	Tpp2	tripeptidyl peptidase II	1.86E-05	NM_009418
162	Igh-6	immunoglobulin heavy chain 6 (heavy chain of IgM)	1.87E-05	---
163	Csnk1d	casein kinase 1, delta	1.92E-05	NM_027874 /// NM_139059
164	Clcn5	chloride channel 5	1.94E-05	NM_016691
165	Comm5	COMM domain containing 5	2.04E-05	NM_025536
166	Swap70	SWA-70 protein	2.05E-05	NM_009302
167	Agap3	ArfGAP with GTPase domain, ankyrin repeat and PH domain 3	2.06E-05	NM_139153
168	Gba	glucosidase, beta, acid	2.07E-05	NM_001077411 /// NM_008094
169	Rabggta	Rab geranylgeranyl transferase, a subunit	2.07E-05	NM_019519
170	Lig12 /// LOC100047332	lethal giant larvae homolog 2 (Drosophila) /// similar to Lethal giant larvae ho	2.07E-05	NM_145438 /// XR_033868
171	Gnb3	guanine nucleotide binding protein (G protein), beta 3	2.13E-05	NM_013530
172	Tek	endothelial-specific receptor tyrosine kinase	2.15E-05	NM_013690
173	Epha8	Eph receptor A8	2.19E-05	NM_007939
174	Apbb2	amyloid beta (A4) precursor protein-binding, family B, member 2	2.19E-05	NM_009686
175	Ttyh2	tweety homolog 2 (Drosophila)	2.20E-05	NM_053273
176	Eprs	glutamyl-prolyl-tRNA synthetase	2.28E-05	NM_029735
177	Fermt2	fermitin family homolog 2 (Drosophila)	2.32E-05	NM_146054
178	Amz2	archaealysin family metallopeptidase 2	2.34E-05	NM_025275
179	Igf2r	insulin-like growth factor 2 receptor	2.34E-05	NM_010515
180	1810044D09RIK	RIKEN cDNA 1810044D09 gene	2.38E-05	---
181	Foxj3	forkhead box J3	2.40E-05	NM_172699

182	Thns12	threonine synthase-like 2 (bacterial)	2.46E-05	NM_001033929 /// NM_178413
183	Zeb1	zinc finger E-box binding homeobox 1	2.46E-05	NM_011546
184	Med27	mediator complex subunit 27	2.50E-05	NM_026896
185	Pkp3	plakophilin 3	2.50E-05	NM_001162924 /// NM_019762
186	Psrc1	proline/serine-rich coiled-coil 1	2.50E-05	NM_019976
187	Trim24	tripartite motif-containing 24	2.50E-05	NM_145076
188	Tmem106b	transmembrane protein 106B	2.58E-05	NM_027992
189	Zfp740	zinc finger protein 740	2.58E-05	NM_153194
190	Cdc42se2	CDC42 small effector 2	2.60E-05	NM_178626
191	2810021G02Rik	RIKEN cDNA 2810021G02 gene	2.62E-05	NM_001162922 /// XR_030794 /// XR_032954
192	Fzd6	frizzled homolog 6 (Drosophila)	2.65E-05	NM_001162494 /// NM_008056
193	Spred1	sprouty protein with EVH-1 domain 1, related sequence	2.72E-05	NM_033524
194	Sfrs2ip	splicing factor, arginine/serine-rich 2, interacting protein	2.72E-05	NM_028148
195	Hnrnp	heterogeneous nuclear ribonucleoprotein R	2.73E-05	NM_028871
196	Spata5	spermatogenesis associated 5	2.73E-05	NM_001163511 /// NM_021343
197	Ddx6	DEAD (Asp-Glu-Ala-Asp) box polypeptide 6	2.82E-05	NM_001110826 /// NM_007841 /// NM_181324
198	Wdly3	WD repeat and FYVE domain containing 3	2.85E-05	NM_172882
199	Pcd6ip	programmed cell death 6 interacting protein	2.87E-05	NM_011052
200	Copg2as2	coatamer protein complex, subunit gamma 2, antisense 2	2.96E-05	NR_002845 /// XM_001471930
201	MacroD2	MACRO domain containing 2	3.01E-05	NM_001013802 /// NM_028387
202	Tfrc	transferrin receptor	3.14E-05	NM_011638
203	Chid1	chitinase domain containing 1	3.17E-05	NM_001142681 /// NM_026522
204	Nup155	nucleoporin 155	3.22E-05	NM_133227
205	Mphosph9	M-phase phosphoprotein 9	3.22E-05	NM_001081323
206	Frdm6	FERM domain containing 6	3.26E-05	NM_028127
207	Ankrd40	ankyrin repeat domain 40	3.27E-05	NM_027799 /// NM_146024
208	Fkbp8	FK506 binding protein 8	3.32E-05	NM_001111066 /// NM_010223
209	Gna13	guanine nucleotide binding protein, alpha 13	3.33E-05	NM_010303
210	Abca8a	ATP-binding cassette, sub-family A (ABC1), member 8a	3.39E-05	NM_153145
211	Tusc2	tumor suppressor candidate 2	3.43E-05	NM_019742
212	Prkcz	protein kinase C, zeta	3.50E-05	NM_001039079 /// NM_008860
213	Art3	ADP-ribosyltransferase 3	3.56E-05	NM_181728
214	LOC100043998 /// Tpr	similar to nuclear pore complex-associated intranuclear coiled-coil protein TPR	3.58E-05	NM_133780 /// XM_001474137
215	Ppt1	palmitoyl-protein thioesterase 1	3.63E-05	NM_008917
216	2610101N10Rik	RIKEN cDNA 2610101N10 gene	3.67E-05	NM_001114977 /// NM_026476
217	Emb	embigin	3.67E-05	NM_010330
218	Tnfrsf13c	tumor necrosis factor receptor superfamily, member 13c	3.73E-05	NM_028075
219	Kdm5c	lysine (K)-specific demethylase 5C	3.76E-05	NM_013668
220	Amfr /// LOC100046262	autocrine motility factor receptor /// similar to Autocrine motility factor rece	3.80E-05	NM_011787 /// XM_001475898
221	Aoc3	amine oxidase, copper containing 3	3.80E-05	NM_009675
222	Tgfb2	transforming growth factor, beta receptor II	3.97E-05	NM_009371 /// NM_029575
223	Smc1a	structural maintenance of chromosomes 1A	3.97E-05	NM_019710
224	Myo1b	myosin IB	4.00E-05	NM_001161817 /// NM_010863
225	Colec12	collectin sub-family member 12	4.01E-05	NM_130449
226	Taok1	TAO kinase 1	4.06E-05	NM_144825
227	Cbx5	chromobox homolog 5 (Drosophila HP1a)	4.12E-05	NM_001076789 /// NM_001110216 /// NM_007626

228	Klc1	kinesin light chain 1	4.13E-05	NM_001025360 /// NM_001081959 /// NM_008450
229	Entpd2	ectonucleoside triphosphate diphosphohydrolase 2	4.14E-05	NM_009849
230	Rchy1	ring finger and CHY zinc finger domain containing 1	4.16E-05	NM_026557
231	Rffl	ring finger and FYVE like domain containing protein	4.18E-05	NM_001007465 /// NM_026097
232	MacroD1	MACRO domain containing 1	4.25E-05	NM_134147
233	Metrn	meteorin, glial cell differentiation regulator	4.38E-05	NM_133719
234	Cno	cappuccino	4.39E-05	NM_133724
235	Nle1	notchless homolog 1 (Drosophila)	4.44E-05	NM_145431
236	Enah	enabled homolog (Drosophila)	4.45E-05	NM_001083120 /// NM_001083121 /// NM_008680 /// NM_010135
237	Tpp2	tripeptidyl peptidase II	4.51E-05	NM_009418
238	Arsg	arylsulfatase G	4.57E-05	NM_028710
239	Itsn2	intersectin 2	4.73E-05	NM_011365
240	Tbc1d15	TBC1 domain family, member 15	4.73E-05	NM_025706
241	Ccdc77	coiled-coil domain containing 77	4.80E-05	NM_026028
242	Entpd1	ectonucleoside triphosphate diphosphohydrolase 1	4.88E-05	NM_009848
243	Zfp53	zinc finger protein 53	4.91E-05	NM_013843
244	Luzp1	leucine zipper protein 1	5.04E-05	NM_024452
245	Ttc3	tetratricopeptide repeat domain 3	5.04E-05	NM_009441
246	Ttc8	tetratricopeptide repeat domain 8	5.09E-05	NM_029553 /// NM_198311
247	Adam8	a disintegrin and metallopeptidase domain 8	5.16E-05	NM_007403
248	Mapk11	mitogen-activated protein kinase 11	5.18E-05	NM_011161
249	LOC100046080 /// Spin1	similar to Spindlin 1 /// spindlin 1	5.23E-05	NM_011462 /// NM_146043 /// XM_001475418 /// XM_001475434
250	Mphosph9	M-phase phosphoprotein 9	5.27E-05	NM_001081323
251	Gpr172b	G protein-coupled receptor 172B	5.28E-05	NM_029643
252	Ppargc1b	peroxisome proliferative activated receptor, gamma, coactivator 1 beta	5.34E-05	NM_133249
253	Serpini1	serine (or cysteine) peptidase inhibitor, clade I, member 1	5.35E-05	NM_009250
254	Csnk1e	casein kinase 1, epsilon	5.38E-05	NM_013767
255	Spata13	spermatogenesis associated 13	5.47E-05	NM_001033272 /// XM_901902 /// XM_923227
256	9130213B05Rik	RIKEN cDNA 9130213B05 gene	5.48E-05	NM_145562
257	Slc39a3	solute carrier family 39 (zinc transporter), member 3	5.52E-05	NM_134135
258	Dclre1b	DNA cross-link repair 1B, PSO2 homolog (S. cerevisiae)	5.57E-05	NM_001025312 /// NM_133865
259	Add3	adducin 3 (gamma)	5.58E-05	NM_001164099 /// NM_001164100 /// NM_001164101 /// NM_013758
260	Orc2l	origin recognition complex, subunit 2-like (S. cerevisiae)	5.71E-05	NM_001025378 /// NM_008765
261	Taf8	TAF8 RNA polymerase II, TATA box binding protein (TBP)-associated factorq	5.78E-05	NM_022015
262	Crif1	cytokine receptor-like factor 1	5.83E-05	NM_018827
263	Sh3tc1	SH3 domain and tetratricopeptide repeats 1	5.84E-05	NM_194344
264	Gmppa	GDP-mannose pyrophosphorylase A	6.07E-05	NM_133708
265	Tmem192	transmembrane protein 192	6.21E-05	NM_001163747 /// NM_028427
266	Notch3	Notch gene homolog 3 (Drosophila)	6.23E-05	NM_008716
267	Thrap3	thyroid hormone receptor associated protein 3	6.29E-05	NM_146153
268	Crat	carnitine acetyltransferase	6.31E-05	NM_007760
269	Cenpb	centromere protein B	6.37E-05	NM_007682
270	Sdpr	serum deprivation response	6.39E-05	NM_138741
271	Gclc	glutamate-cysteine ligase, catalytic subunit	6.41E-05	NM_010295
272	Rasal2	RAS protein activator like 2	6.47E-05	NM_177644
273	Gpnmb	glycoprotein (transmembrane) nmb	6.60E-05	NM_053110

274	Ehmt2	euchromatic histone lysine N-methyltransferase 2	6.72E-05	NM_145830 /// NM_147151
275	Socs2	suppressor of cytokine signaling 2	6.73E-05	NM_007706
276	Spry2	sprouty homolog 2 (Drosophila)	6.86E-05	NM_011897
277	Robo1	roundabout homolog 1 (Drosophila)	6.86E-05	NM_019413
278	Btbd3	BTB (POZ) domain containing 3	6.86E-05	NM_001025431 /// NM_145534
279	Hltf	helicase-like transcription factor	6.98E-05	NM_009210 /// NM_144959
280	Spna2	spectrin alpha 2	7.12E-05	NM_001076554
281	Pcyt2	phosphate cytidyltransferase 2, ethanolamine	7.14E-05	NM_024229
282	Spep	SPEG complex locus	7.23E-05	NM_001085370 /// NM_001085371 /// NM_007463
283	Arfgap3 /// LOC100045474	ADP-ribosylation factor GTPase activating protein 3 /// similar to ADP-ribosylat	7.31E-05	NM_025445 /// XR_032156
284	Cd34	CD34 antigen	7.36E-05	NM_001111059 /// NM_133654
285	Pdc61p	programmed cell death 6 interacting protein	7.41E-05	NM_011052
286	Atp2a3	ATPase, Ca++ transporting, ubiquitous	7.43E-05	NM_001163336 /// NM_001163337 /// NM_016745
287	Scand1	SCAN domain-containing 1	7.50E-05	NM_020255
288	2610002J02Rik	RIKEN cDNA 2610002J02 gene	7.50E-05	NM_001033134
289	Jak1	Janus kinase 1	7.52E-05	NM_146145
290	Wbp1	WW domain binding protein 1	7.53E-05	NM_001083922 /// NM_001083923 /// NM_016757
291	Rps6ka2	ribosomal protein S6 kinase, polypeptide 2	7.60E-05	NM_011299
292	Hoxd8	homeo box D8	7.81E-05	NM_008276
293	Rnf167	ring finger protein 167	7.88E-05	NM_027445 /// XM_001471737
294	Med23	mediator complex subunit 23	7.89E-05	NM_027347
295	Syncrip	synaptotagmin binding, cytoplasmic RNA interacting protein	7.90E-05	NM_019666 /// NM_019796
296	LOC100047864 /// Snx6	similar to sorting nexin 6 /// sorting nexin 6	8.05E-05	NM_026998 /// XM_001479028
297	Sharpin	SHANK-associated RH domain interacting protein	8.10E-05	NM_025340
298	Mef2c	myocyte enhancer factor 2C	8.23E-05	NM_025282
299	Dicer1	Dicer1, Dcr-1 homolog (Drosophila)	8.24E-05	NM_148948
300	Igh-6	immunoglobulin heavy chain 6 (heavy chain of IgM)	8.27E-05	---
301	Rab30	RAB30, member RAS oncogene family	8.37E-05	NM_029494
302	Aspm	asp (abnormal spindle)-like, microcephaly associated (Drosophila)	8.38E-05	NM_009791
303	Ttc39b	tetratricopeptide repeat domain 39B	8.47E-05	NM_027238
304	G6pc3	glucose 6 phosphatase, catalytic, 3	8.54E-05	NM_175935
305	Eltf1	EGF, latrophilin seven transmembrane domain containing 1	8.61E-05	NM_133222
306	Ankrd40	ankyrin repeat domain 40	8.76E-05	NM_027799 /// NM_146024
307	Pfkf1	PFTAIRE protein kinase 1	8.77E-05	NM_011074
308	Cnot4	CCR4-NOT transcription complex, subunit 4	8.77E-05	NM_001164411 /// NM_001164412 /// NM_001164413 /// NM_001164414
309	Atrx	alpha thalassemia/mental retardation syndrome X-linked homolog (human)	8.95E-05	NM_009530
310	Sema3f	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semapho	9.02E-05	NM_011349
311	Asb3	ankyrin repeat and SOCS box-containing 3	9.04E-05	NM_023906
312	Sp1	trans-acting transcription factor 1	9.05E-05	NM_013672
313	Nr2f6	nuclear receptor subfamily 2, group F, member 6	9.06E-05	NM_010150
314	Rasa1	RAS p21 protein activator 1	9.09E-05	NM_145452
315	Klc3	kinesin light chain 3	9.15E-05	NM_146182
316	Kif4	kinesin family member 4	9.17E-05	NM_008446
317	Praf2	PRA1 domain family 2	9.26E-05	NM_138602
318	Stub1	STIP1 homology and U-Box containing protein 1	9.31E-05	NM_019719
319	Akt1	thymoma viral proto-oncogene 1	9.42E-05	NM_009652

320	Tnrc6a	trinucleotide repeat containing 6a	9.46E-05	NM_144925
321	Rell1	RELT-like 1	9.48E-05	NM_145923
322	Hsd3b3	hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 3	9.56E-05	NM_001012306 /// NM_001161742 /// NM_001161743 /// NM_001161744
323	Arhgap6	Rho GTPase activating protein 6	9.89E-05	NM_009707 /// NM_178754
324	Ap3b1	adaptor-related protein complex 3, beta 1 subunit	9.91E-05	NM_009680
325	C030006K11Rik	RIKEN cDNA C030006K11 gene	9.95E-05	NM_145472 /// NM_176828
326	Nfib	nuclear factor I/B	1.01E-04	NM_001113209 /// NM_001113210 /// NM_008687
327	Pus3	pseudouridine synthase 3	1.03E-04	NM_023292
328	Cebpz	CCAAT/enhancer binding protein zeta	1.03E-04	NM_001024806
329	Klk1b21	kallikrein 1-related peptidase b21	1.03E-04	NM_010642
330	Naglu	alpha-N-acetylglucosaminidase (Sanfilippo disease IIIB)	1.05E-04	NM_013792
331	Gpr137b-ps	G protein-coupled receptor 137B, pseudogene	1.06E-04	NR_003568 /// XR_001658
332	LOC100270747	hypothetical LOC100270747	1.06E-04	---
333	D1Ert75e	DNA segment, Chr 1, ERATO Doi 75, expressed	1.06E-04	---
334	Il7r	interleukin 7 receptor	1.09E-04	NM_008372
335	Pex13	peroxisomal biogenesis factor 13	1.10E-04	NM_023651
336	Galnt2	UDP-N-acetyl-alpha-D-galactosamine: polypeptide N-acetylgalactosaminyltransferase	1.11E-04	NM_139272
337	Gna13	guanine nucleotide binding protein, alpha 13	1.11E-04	NM_010303
338	Pik3ca	phosphatidylinositol 3-kinase, catalytic, alpha polypeptide	1.12E-04	NM_008839
339	Rgs3	regulator of G-protein signaling 3	1.14E-04	NM_001081650 /// NM_019492 /// NM_134257
340	Hipk1	homeodomain interacting protein kinase 1	1.15E-04	NM_010432
341	Eif3a	eukaryotic translation initiation factor 3, subunit A	1.18E-04	NM_010123
342	Zfp518b	zinc finger protein 518B	1.18E-04	NM_001081144
343	Nrp1	neuropilin 1	1.18E-04	NM_008737
344	Ctdsp2 /// Gm9770	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase	1.21E-04	NM_001113470 /// NM_146012 /// XR_032943 /// XR_034953
345	Cpeb3	cytoplasmic polyadenylation element binding protein 3	1.22E-04	NM_198300
346	Clcn3	chloride channel 3	1.23E-04	NM_007711 /// NM_173873 /// NM_173874 /// NM_173876
347	Tram2	translocating chain-associating membrane protein 2	1.24E-04	NM_133252 /// NM_177409
348	Mapk8	mitogen-activated protein kinase 8	1.26E-04	NM_016700
349	Gab1	growth factor receptor bound protein 2-associated protein 1	1.26E-04	NM_021356
350	Ralb	v-ras simian leukemia viral oncogene homolog B (ras related)	1.28E-04	NM_022327
351	Flt1	FMS-like tyrosine kinase 1	1.29E-04	NM_010228
352	Gnai1	guanine nucleotide binding protein (G protein), alpha inhibiting 1	1.30E-04	NM_010305
353	Tfpi	tissue factor pathway inhibitor	1.31E-04	NM_011576
354	Fubp1	far upstream element (FUSE) binding protein 1	1.32E-04	NM_057172
355	Gpr137b /// LOC10004497	G protein-coupled receptor 137B /// similar to Gpr137b protein	1.33E-04	NM_031999 /// XM_001473441
356	Usp14	ubiquitin specific peptidase 14	1.33E-04	NM_001038589 /// NM_021522
357	---	---	1.33E-04	---
358	Chm	choroideremia	1.33E-04	NM_018818
359	Efr3a	EFR3 homolog A (S. cerevisiae)	1.33E-04	NM_133766
360	Apaf1	apoptotic peptidase activating factor 1	1.35E-04	NM_001042558 /// NM_009684
361	B3gnt9	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 9	1.37E-04	NM_178879
362	Lpp	LIM domain containing preferred translocation partner in lipoma	1.37E-04	NM_001145952 /// NM_001145954 /// NM_178665
363	Zmym4	zinc finger, MYM-type 4	1.39E-04	NM_001114399 /// XM_355521
364	Slc12a2	solute carrier family 12, member 2	1.39E-04	NM_009194
365	Grhpr	glyoxylate reductase/hydroxypyruvate reductase	1.39E-04	NM_080289

366	Rnf145	ring finger protein 145	1.40E-04	NM_028862
367	Slc39a11	solute carrier family 39 (metal ion transporter), member 11	1.41E-04	NM_027216
368	Ctr9	Ctr9, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae)	1.42E-04	NM_009431
369	Adamts5 /// LOC10004833	a disintegrin-like and metallopeptidase (repolysin type) with thrombospondin ty	1.45E-04	NM_011782 /// XM_001480027
370	Dhrs3	dehydrogenase/reductase (SDR family) member 3	1.46E-04	NM_011303
371	Ggta1	glycoprotein galactosyltransferase alpha 1, 3	1.46E-04	NM_001145821 /// NM_010283
372	Dclre1a	DNA cross-link repair 1A, PSO2 homolog (S. cerevisiae)	1.47E-04	NM_018831
373	Ncapg	non-SMC condensin I complex, subunit G	1.47E-04	NM_019438 /// XM_485604
374	Brd8	bromodomain containing 8	1.47E-04	NM_030147
375	Gzmb	granzyme B	1.47E-04	NM_013542
376	Phtf2	putative homeodomain transcription factor 2	1.48E-04	NM_172992
377	Pawr	PRKC, apoptosis, WT1, regulator	1.48E-04	NM_054056
378	Pla2g6	phospholipase A2, group VI	1.48E-04	NM_016915
379	Boc	biregional cell adhesion molecule-related/down-regulated by oncogenes (Cdon) bin	1.48E-04	NM_172506
380	Prkd3	protein kinase D3	1.48E-04	NM_029239
381	Thrap3	thyroid hormone receptor associated protein 3	1.49E-04	NM_146153
382	Airn	antisense Igf2r RNA	1.50E-04	NR_002853 /// NR_027772 /// NR_027773 /// NR_027784
383	Tcf25	transcription factor 25 (basic helix-loop-helix)	1.51E-04	NM_001037877 /// NM_001037878 /// NM_025804
384	Dstyk	dual serine/threonine and tyrosine protein kinase	1.51E-04	NM_172516
385	Ghr	growth hormone receptor	1.51E-04	NM_001048147 /// NM_001048178 /// NM_010284
386	BC017643	cDNA sequence BC017643	1.52E-04	NM_144832
387	Mdk	midkine	1.53E-04	NM_001012335 /// NM_001012336 /// NM_010784
388	Gsn	gelsolin	1.53E-04	NM_146120
389	Tmc6	transmembrane channel-like gene family 6	1.54E-04	NM_145439 /// NM_181321
390	Cox4i2	cytochrome c oxidase subunit IV isoform 2	1.54E-04	NM_053091
391	Ugt1a1 /// Ugt1a10 /// Ugt1a11	UDP glucuronosyltransferase 1 family, polypeptide A1 /// UDP glycosyltransferase	1.54E-04	NM_013701 /// NM_145079 /// NM_201410 /// NM_201641 /// NM_201642
392	Nbn	nibrin	1.55E-04	NM_013752
393	Dtx2	deltex 2 homolog (Drosophila)	1.55E-04	NM_023742
394	Tnrc6a	trinucleotide repeat containing 6a	1.55E-04	NM_144925
395	Hey1	hairy/enhancer-of-split related with YRPW motif 1	1.56E-04	NM_010423
396	Ncbp1	nuclear cap binding protein subunit 1	1.58E-04	NM_001033201
397	Zc3h12c	zinc finger CCCH type containing 12C	1.60E-04	NM_001162921 /// XM_146893 /// XM_917341
398	Postn	periostin, osteoblast specific factor	1.60E-04	NM_015784
399	Gsn	gelsolin	1.61E-04	NM_146120
400	Csk	c-src tyrosine kinase	1.64E-04	NM_007783
401	Pdgfrb	platelet derived growth factor receptor, beta polypeptide	1.65E-04	NM_001146268 /// NM_008809
402	Luzp1	leucine zipper protein 1	1.65E-04	NM_024452
403	Galnt7	UDP-N-acetyl-alpha-D-galactosamine: polypeptide N-acetylgalactosaminyltransferas	1.65E-04	NM_144731
404	Ctsb	cathepsin B	1.66E-04	NM_007798
405	Dgcr14	DiGeorge syndrome critical region gene 14	1.67E-04	NM_001081633 /// NM_022408
406	Tubgcp5	tubulin, gamma complex associated protein 5	1.67E-04	NM_146190
407	Hist1h2ad /// Hist1h2an /// Hist1h2af	histone cluster 1, H2ad /// histone cluster 1, H2an /// histone cluster 2, H2aa1	1.68E-04	NM_013549 /// NM_019469 /// NM_175662 /// NM_178184 /// NM_178185
408	Pcbp4	poly(rC) binding protein 4	1.69E-04	NM_021567
409	Elf2s2	eukaryotic translation initiation factor 2, subunit 2 (beta)	1.70E-04	NM_026030
410	Ubtf	upstream binding transcription factor, RNA polymerase I	1.70E-04	NM_001044383 /// NM_011551
411	Ttc39b	tetratricopeptide repeat domain 39B	1.70E-04	NM_027238

412	Phf17	PHD finger protein 17	1.71E-04	NM_001130184 /// NM_001130185 /// NM_001130186 /// NM_172303
413	Syngn1	synaptogyrin 1	1.71E-04	NM_009303 /// NM_207708
414	Repn1	replication initiator 1	1.71E-04	NM_001079901 /// NM_001079902 /// NM_001079903 /// NM_001079904
415	Sel1l	sel-1 suppressor of lin-12-like (C. elegans)	1.73E-04	NM_001039089 /// NM_011344
416	Flad1	RFad1, flavin adenine dinucleotide synthetase, homolog (yeast)	1.73E-04	NM_177041
417	1110032E23Rik	RIKEN cDNA 1110032E23 gene	1.74E-04	NM_133187
418	Igf1	insulin-like growth factor 1	1.75E-04	NM_001111274 /// NM_001111275 /// NM_001111276 /// NM_010512 /
419	Ccdc6	coiled-coil domain containing 6	1.76E-04	NM_001111121 /// XM_618775 /// XM_908442
420	Sec14l2	SEC14-like 2 (S. cerevisiae)	1.77E-04	NM_144520
421	Cenpe	centromere protein E	1.77E-04	NM_173762
422	Sipa1l2	signal-induced proliferation-associated 1 like 2	1.78E-04	NM_001081337
423	Tspan6	tetraspanin 6	1.79E-04	NM_019656
424	Huwe1	HECT, UBA and WWE domain containing 1	1.80E-04	NM_021523
425	Bzw1	basic leucine zipper and W2 domains 1	1.81E-04	NM_025824
426	Cadm1	cell adhesion molecule 1	1.82E-04	NM_001025600 /// NM_018770 /// NM_207675 /// NM_207676
427	Ssrp1	structure specific recognition protein 1	1.83E-04	NM_001136081 /// NM_182990
428	Ear1 /// Ear12 /// Ear2 ///	eosinophil-associated, ribonuclease A family, member 1 /// eosinophil-associated	1.84E-04	NM_001012766 /// NM_007894 /// NM_007895 /// NM_017388
429	Sorbs1	sorbin and SH3 domain containing 1	1.87E-04	NM_001034962 /// NM_001034963 /// NM_001034964 /// NM_009166 /
430	Rgs14	regulator of G-protein signaling 14	1.88E-04	NM_016758
431	Syncrip	synaptotagmin binding, cytoplasmic RNA interacting protein	1.89E-04	NM_019666 /// NM_019796
432	Sec63	SEC63-like (S. cerevisiae)	1.92E-04	NM_153055
433	Chmp1b	chromatin modifying protein 1B	1.93E-04	NM_024190
434	Arg2	arginase type II	1.94E-04	NM_009705
435	Nt5c3l	5'-nucleotidase, cytosolic III-like	1.97E-04	NM_001102650 /// NM_026561
436	Igfbp3	insulin-like growth factor binding protein 3	1.98E-04	NM_008343
437	Prrx1	paired related homeobox 1	1.99E-04	NM_001025570 /// NM_011127 /// NM_175686
438	Jak1	Janus kinase 1	1.99E-04	NM_146145
439	Ifngr2	interferon gamma receptor 2	2.02E-04	NM_008338
440	1200009O22Rik	RIKEN cDNA 1200009O22 gene	2.02E-04	NM_025817
441	6820431F20Rik	RIKEN cDNA 6820431F20 gene	2.05E-04	XM_001481304
442	---	---	2.07E-04	---
443	Pofut2	protein O-fucosyltransferase 2	2.08E-04	NM_030262
444	Trps1	trichorhinophalangeal syndrome I (human)	2.09E-04	NM_032000
445	Impad1	inositol monophosphatase domain containing 1	2.12E-04	NM_177730
446	Sfpq	splicing factor proline/glutamine rich (polypyrimidine tract binding protein ass	2.15E-04	NM_023603
447	Phlda1	pleckstrin homology-like domain, family A, member 1	2.16E-04	NM_009344
448	Itih5	inter-alpha (globulin) inhibitor H5	2.16E-04	NM_172471
449	Fam100b	family with sequence similarity 100, member B	2.17E-04	NM_176902
450	Tnfsf10	tumor necrosis factor (ligand) superfamily, member 10	2.21E-04	NM_009425
451	Tex261	testis expressed gene 261	2.23E-04	NM_009357
452	Pvr13	poliovirus receptor-related 3	2.23E-04	NM_021495 /// NM_021496 /// NM_021497
453	Gbas	glioblastoma amplified sequence	2.25E-04	NM_008095
454	Abcb1a	ATP-binding cassette, sub-family B (MDR/TAP), member 1A	2.25E-04	NM_011076
455	Nfyb	nuclear transcription factor-Y beta	2.25E-04	NM_010914
456	Zfand6	zinc finger, AN1-type domain 6	2.28E-04	NM_022985
457	A130022J15Rik	RIKEN cDNA A130022J15 gene	2.31E-04	NM_175313

458	Btbd2	BTB (POZ) domain containing 2	2.31E-04	NM_145361 /// XM_001000710 /// XM_910826
459	Cbx1	chromobox homolog 1 (Drosophila HP1 beta)	2.36E-04	NM_007622
460	Snrnp48	small nuclear ribonucleoprotein 48 (U11/U12)	2.39E-04	NM_026382
461	Nrarp	Notch-regulated ankyrin repeat protein	2.41E-04	NM_025980
462	Polr3g	polymerase (RNA) III (DNA directed) polypeptide G	2.43E-04	NM_001081176
463	Bbc3	BCL2 binding component 3	2.44E-04	NM_133234
464	Tmem38b	transmembrane protein 38B	2.46E-04	NM_028053
465	Kif5b	kinesin family member 5B	2.49E-04	NM_008448
466	Irak1	interleukin-1 receptor-associated kinase 1	2.49E-04	NM_008363
467	Bptf	bromodomain PHD finger transcription factor	2.50E-04	NM_176850
468	Cyp27a1	cytochrome P450, family 27, subfamily a, polypeptide 1	2.51E-04	NM_024264
469	Wac	WW domain containing adaptor with coiled-coil	2.52E-04	NM_001146298 /// NM_153085 /// NR_027465
470	Ndn	necdin	2.52E-04	NM_010882
471	Bscl2	Bernardinelli-Seip congenital lipodystrophy 2 homolog (human)	2.54E-04	NM_001136064 /// NM_008144
472	Ndn	necdin	2.54E-04	NM_010882
473	Tada3l	transcriptional adaptor 3 (NGG1 homolog, yeast)-like	2.58E-04	NM_133932
474	Spp1	secreted phosphoprotein 1	2.60E-04	NM_009263
475	Ash1l	ash1 (absent, small, or homeotic)-like (Drosophila)	2.60E-04	NM_138679
476	Cd36	CD36 antigen	2.60E-04	NM_001159555 /// NM_001159556 /// NM_001159557 /// NM_001159558
477	Vrk1	vaccinia related kinase 1	2.61E-04	NM_001029843 /// NM_001029844 /// NM_011705
478	Stk4	serine/threonine kinase 4	2.66E-04	NM_021420
479	Chd4	chromodomain helicase DNA binding protein 4	2.66E-04	NM_145979
480	Psd3	pleckstrin and Sec7 domain containing 3	2.67E-04	NM_027626 /// NM_030263 /// NM_177698
481	Fam63a	family with sequence similarity 63, member A	2.68E-04	NM_133858
482	Pde7a	phosphodiesterase 7A	2.70E-04	NM_001122759 /// NM_008802
483	2610507B11Rik	RIKEN cDNA 2610507B11 gene	2.70E-04	NM_001002004
484	Nr2f2	nuclear receptor subfamily 2, group F, member 2	2.73E-04	NM_009697 /// NM_183261
485	Ift80	intraflagellar transport 80 homolog (Chlamydomonas)	2.74E-04	NM_026641
486	Tnrc6a	trinucleotide repeat containing 6a	2.74E-04	NM_144925
487	AI314976	expressed sequence AI314976	2.77E-04	NM_207219
488	Gdap10	ganglioside-induced differentiation-associated-protein 10	2.77E-04	XM_895068
489	Taok1	TAO kinase 1	2.78E-04	NM_144825
490	Elmod3 /// LOC100047355	ELMO/CED-12 domain containing 3 /// similar to RNA binding motif and ELMO domain	2.80E-04	NM_144917 /// XM_001477967
491	Rab3d	RAB3D, member RAS oncogene family	2.86E-04	NM_031874
492	2310001A20Rik	RIKEN cDNA 2310001A20 gene	2.87E-04	NM_027977
493	Nsun4	NOL1/NOP2/Sun domain family, member 4	2.88E-04	NM_028142
494	Fbn1	fibrillin 1	2.88E-04	NM_007993
495	Gab1	growth factor receptor bound protein 2-associated protein 1	2.88E-04	NM_021356
496	Sulf2	sulfatase 2	2.90E-04	NM_028072
497	Atp7a	ATPase, Cu++ transporting, alpha polypeptide	2.91E-04	NM_001109757 /// NM_009726
498	Stl7l	suppression of tumorigenicity 7-like	2.91E-04	NM_153091
499	Prkd3	protein kinase D3	2.92E-04	NM_029239
500	Dgcr6	DIGeorge syndrome critical region gene 6	2.92E-04	NM_010047
501	Uxs1	UDP-glucuronate decarboxylase 1	2.93E-04	NM_026430
502	a	nonagouti	2.95E-04	NM_015770
503	Dnpep	aspartyl aminopeptidase	2.96E-04	NM_001110831 /// NM_016878

504	---	---	2.96E-04	---
505	Gstt1	glutathione S-transferase, theta 1	2.98E-04	NM_008185
506	Zfp426	zinc finger protein 426	2.98E-04	NM_001110309 /// NM_146221
507	Tmem189	transmembrane protein 189	3.01E-04	NM_145538
508	Use1	unconventional SNARE in the ER 1 homolog (S. cerevisiae)	3.02E-04	NM_001145780 /// NM_025917 /// NM_029768
509	Gpr137b /// Gpr137b-ps ///	G protein-coupled receptor 137B /// G protein-coupled receptor 137B, pseudogene	3.02E-04	NM_031999 /// NR_003568 /// XM_001473441 /// XR_001658
510	Sos2	son of sevenless homolog 2 (Drosophila)	3.04E-04	NM_001135559 /// XM_127051 /// XM_916574
511	B230308N11Rik	RIKEN cDNA B230308N11 gene	3.05E-04	---
512	Purb	purine rich element binding protein B	3.08E-04	NM_011221
513	Zfand2b	zinc finger, AN1 type domain 2B	3.08E-04	NM_001159905 /// NM_001159906 /// NM_026846
514	Trim23	tripartite motif-containing 23	3.09E-04	NM_030731
515	Kcnn4	potassium intermediate/small conductance calcium-activated channel, subfamily N,	3.09E-04	NM_001163510 /// NM_008433
516	---	---	3.10E-04	---
517	Trim47	tripartite motif-containing 47	3.10E-04	NM_172570
518	Baz2a	bromodomain adjacent to zinc finger domain, 2A	3.11E-04	NM_054078
519	Fam111a	family with sequence similarity 111, member A	3.16E-04	NM_026640
520	Pcmt2	protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 2	3.17E-04	NM_153594
521	Mea1	male enhanced antigen 1	3.17E-04	NM_010787
522	Jak3	Janus kinase 3	3.17E-04	NM_010589
523	Golm4	golgi integral membrane protein 4	3.20E-04	NM_175193
524	Elf4g1	eukaryotic translation initiation factor 4, gamma 1	3.23E-04	NM_001005331 /// NM_145941
525	Tpr	translocated promoter region	3.23E-04	NM_133780
526	Rnasel	ribonuclease L (2', 5'-oligoadenylate synthetase-dependent)	3.24E-04	NM_011882
527	Rapgef3	Rap guanine nucleotide exchange factor (GEF) 3	3.27E-04	NM_144850
528	28104740I9Rik	RIKEN cDNA 28104740I9 gene	3.28E-04	NM_026054
529	Rbm5	RNA binding motif protein 5	3.28E-04	NM_148930
530	Trim44	tripartite motif-containing 44	3.30E-04	NM_020267
531	Cpeb3	cytoplasmic polyadenylation element binding protein 3	3.30E-04	NM_198300
532	Nln	neurolysin (metallopeptidase M3 family)	3.31E-04	NM_029447
533	Elt1	EGF, latrophilin seven transmembrane domain containing 1	3.34E-04	NM_133222
534	Abtb1	ankyrin repeat and BTB (POZ) domain containing 1	3.36E-04	NM_030251
535	Plagl2	pleiomorphic adenoma gene-like 2	3.36E-04	NM_018807
536	Nrtn	neurturin	3.37E-04	NM_008738
537	Rundc3a	RUN domain containing 3A	3.37E-04	NM_016759
538	Cdk2ap2	CDK2-associated protein 2	3.38E-04	NM_026373
539	Erf	Ets2 repressor factor	3.38E-04	NM_010155
540	Cramp1l	Crm, cramped-like (Drosophila)	3.39E-04	NM_020608 /// XM_001005194 /// XM_484614 /// XM_904007 /// XM_9
541	Hnmt	histamine N-methyltransferase	3.40E-04	NM_080462
542	Magohb	mago-nashi homolog B (Drosophila)	3.40E-04	NM_025564
543	Npl	N-acetylneuraminate pyruvate lyase	3.42E-04	NM_028749
544	Tmem38b	transmembrane protein 38B	3.43E-04	NM_028053
545	Ifngr2	interferon gamma receptor 2	3.43E-04	NM_008338
546	Phax	phosphorylated adaptor for RNA export	3.44E-04	NM_001162989 /// NM_019996
547	Prpf40a	PRP40 pre-mRNA processing factor 40 homolog A (yeast)	3.45E-04	NM_018785
548	Cpeb3	cytoplasmic polyadenylation element binding protein 3	3.45E-04	NM_198300
549	Qser1	glutamine and serine rich 1	3.45E-04	NM_001123327 /// XM_001479246 /// XM_001479250 /// XM_916928

550	Phip	pleckstrin homology domain interacting protein	3.45E-04	NM_001081216
551	Rnasel	ribonuclease L (2', 5'-oligoadenylate synthetase-dependent)	3.46E-04	NM_011882
552	Cnot6l	CCR4-NOT transcription complex, subunit 6-like	3.46E-04	NM_144910 /// NM_178854
553	B3galt6	UDP-Gal:betaGal beta 1,3-galactosyltransferase, polypeptide 6	3.47E-04	NM_080445
554	Pam	peptidylglycine alpha-amidating monooxygenase	3.49E-04	NM_013626
555	Copg2as2	coatomer protein complex, subunit gamma 2, antisense 2	3.51E-04	NR_002845 /// XM_001471930
556	---	---	3.52E-04	---
557	Tjp2	tight junction protein 2	3.53E-04	NM_011597
558	Nfib	nuclear factor I/B	3.55E-04	NM_001113209 /// NM_001113210 /// NM_008687
559	Cbx1	chromobox homolog 1 (Drosophila HP1 beta)	3.56E-04	NM_007622
560	Plaur	plasminogen activator, urokinase receptor	3.58E-04	NM_011113
561	Amz2	archaealysin family metallopeptidase 2	3.60E-04	NM_025275
562	Nr3c1	nuclear receptor subfamily 3, group C, member 1	3.60E-04	NM_008173
563	Klra5	killer cell lectin-like receptor, subfamily A, member 5	3.64E-04	NM_008463
564	Ankrd49	ankyrin repeat domain 49	3.65E-04	NM_019683
565	Pdpx	pyridoxal (pyridoxine, vitamin B6) phosphatase	3.66E-04	NM_020271
566	2610028A01Rik	RIKEN cDNA 2610028A01 gene	3.67E-04	NM_028228
567	Csnk2a2	casein kinase 2, alpha prime polypeptide	3.68E-04	NM_009974
568	Pip5k1b	phosphatidylinositol-4-phosphate 5-kinase, type 1 beta	3.69E-04	NM_008846
569	Jam2	junction adhesion molecule 2	3.70E-04	NM_023844
570	Zfand2b	zinc finger, AN1 type domain 2B	3.70E-04	NM_001159905 /// NM_001159906 /// NM_026846
571	Lama4	laminin, alpha 4	3.72E-04	NM_010681
572	Itga6	integrin alpha 6	3.73E-04	NM_008397
573	Tnrc6a	trinucleotide repeat containing 6a	3.76E-04	NM_144925
574	Stx17	syntaxin 17	3.76E-04	NM_026343
575	Nfkbib	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, be	3.79E-04	NM_010908
576	P4ha2	procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha	3.83E-04	NM_001136076 /// NM_011031
577	Cbr4 /// LOC100046395	carbonyl reductase 4 /// similar to carbonic reductase 4	3.83E-04	NM_145595 /// XR_032392
578	Insl3 /// Jak3	insulin-like 3 /// Janus kinase 3	3.84E-04	NM_010589 /// NM_013564
579	Pdrg1	p53 and DNA damage regulated 1	3.85E-04	NM_178939
580	Dom3z	DOM-3 homolog Z (C. elegans)	3.86E-04	NM_001163770 /// NM_033613
581	Usp34	ubiquitin specific peptidase 34	3.89E-04	XM_483996
582	Chmp4b /// LOC674706	chromatin modifying protein 4B /// similar to zinc finger protein 341	3.89E-04	NM_029362 /// XM_976559
583	2610002J02Rik	RIKEN cDNA 2610002J02 gene	3.92E-04	NM_001033134
584	Sbno1	sno, strawberry notch homolog 1 (Drosophila)	3.94E-04	NM_001081203
585	Rnf25	ring finger protein 25	3.94E-04	NM_021313
586	LOC100045546	similar to Id4	4.00E-04	XM_001474498
587	Cacnb3	calcium channel, voltage-dependent, beta 3 subunit	4.01E-04	NM_001044741 /// NM_007581
588	Wdr45	WD repeat domain 45	4.07E-04	NM_172372
589	Wwc2	WW, C2 and coiled-coil domain containing 2	4.08E-04	NM_133791
590	Grb10	growth factor receptor bound protein 10	4.08E-04	NM_010345
591	Rab22a	RAB22A, member RAS oncogene family	4.10E-04	NM_024436
592	AA409749	expressed sequence AA409749	4.10E-04	---
593	Ppp1r1a	protein phosphatase 1, regulatory (inhibitor) subunit 1A	4.13E-04	NM_021391
594	Mettl8	methyltransferase like 8	4.14E-04	NM_001110512 /// NM_145524
595	Acp2	acid phosphatase 2, lysosomal	4.14E-04	NM_007387

596	Reep3	receptor accessory protein 3	4.17E-04	NM_178606
597	Msl2	male-specific lethal 2 homolog (Drosophila)	4.18E-04	NM_001100451 /// XM_150227 /// XM_907909
598	Adh1	alcohol dehydrogenase 1 (class I)	4.18E-04	NM_007409
599	Uhrf1bp1l	UHRF1 (ICBP90) binding protein 1-like	4.22E-04	NM_029166
600	Ets1	E26 avian leukemia oncogene 1, 5' domain	4.24E-04	NM_001038642 /// NM_011808
601	Pnrc2	proline-rich nuclear receptor coactivator 2	4.26E-04	NM_026383
602	Pla1a	phospholipase A1 member A	4.30E-04	NM_134102
603	Malat1	metastasis associated lung adenocarcinoma transcript 1 (non-coding RNA)	4.34E-04	NR_002847
604	Prdm4	PR domain containing 4	4.39E-04	NM_181650
605	Vps41	vacuolar protein sorting 41 (yeast)	4.39E-04	NM_172120
606	Ndn	necdin	4.42E-04	NM_010882
607	Slc6a8	solute carrier family 6 (neurotransmitter transporter, creatine), member 8	4.47E-04	NM_001142809 /// NM_001142810 /// NM_133987
608	---	---	4.47E-04	---
609	Bxdc1	brix domain containing 1	4.51E-04	NM_001042556 /// NM_023323
610	Gpx8	glutathione peroxidase 8 (putative)	4.52E-04	NM_027127
611	Parp10	poly (ADP-ribose) polymerase family, member 10	4.54E-04	NM_001163575 /// NM_001163576 /// XM_001476518 /// XM_00147653
612	Lsr	lipolysis stimulated lipoprotein receptor	4.56E-04	NM_001164184 /// NM_001164185 /// NM_017405
613	Pds5a	PDS5, regulator of cohesion maintenance, homolog A (S. cerevisiae)	4.58E-04	NM_001081321
614	Gas5	growth arrest specific 5	4.58E-04	NR_002840
615	Grem2	gremlin 2 homolog, cysteine knot superfamily (Xenopus laevis)	4.59E-04	NM_011825
616	Lmf1	lipase maturation factor 1	4.60E-04	NM_029624
617	Cln8	ceroid-lipofuscinosis, neuronal 8	4.61E-04	NM_012000
618	AU040320	expressed sequence AU040320	4.65E-04	NM_001035525 /// NM_001035526 /// NM_133886
619	Slc43a3	solute carrier family 43, member 3	4.67E-04	NM_021398
620	Aldh7a1	aldehyde dehydrogenase family 7, member A1	4.67E-04	NM_001127338 /// NM_138600
621	Zeb2	zinc finger E-box binding homeobox 2	4.68E-04	NM_015753
622	Mpp7	membrane protein, palmitoylated 7 (MAGUK p55 subfamily member 7)	4.72E-04	NM_001081287 /// NM_001161620
623	Pkn1 /// Ptger1	protein kinase N1 /// prostaglandin E receptor 1 (subtype EP1)	4.73E-04	NM_013641 /// NM_177262
624	Smc3	structural maintenance of chromosomes 3	4.76E-04	NM_007790
625	Matk	megakaryocyte-associated tyrosine kinase	4.80E-04	NM_010768
626	Ccnb1 /// Gm5593 /// Gm8416	cyclin B1 /// predicted gene 5593 /// predicted gene 8416	4.81E-04	NM_172301 /// XM_001005050 /// XM_485921 /// XM_900988 /// XR_0
627	Man1a2	mannosidase, alpha, class 1A, member 2	4.83E-04	NM_010763
628	Comm9	COMM domain containing 9	4.87E-04	NM_029635
629	Bmpr2	bone morphogenic protein receptor, type II (serine/threonine kinase)	4.89E-04	NM_007561
630	Nop56	NOP56 ribonucleoprotein homolog (yeast)	4.91E-04	NM_024193
631	Aspscr1	alveolar soft part sarcoma chromosome region, candidate 1 (human)	4.93E-04	NM_001164224 /// NM_026877 /// NM_198223
632	Rnf160	ring finger protein 160	4.94E-04	NM_001081068
633	Cpa3	carboxypeptidase A3, mast cell	4.94E-04	NM_007753
634	1700124K17Rik /// Arid2	RIKEN cDNA 1700124K17 gene /// AT rich interactive domain 2 (ARID, RFX-like)	4.97E-04	NM_175251
635	BC037034	cDNA sequence BC037034	5.00E-04	NM_001115015 /// NM_153161
636	Plekhf1	pleckstrin homology domain containing, family F (with FYVE domain) member 1	5.00E-04	NM_024413
637	Exoc1	exocyst complex component 1	5.04E-04	NM_027270
638	Tspan9	tetraspanin 9	5.05E-04	NM_175414
639	Taok1	TAO kinase 1	5.07E-04	NM_144825
640	Sfrs2ip	splicing factor, arginine/serine-rich 2, interacting protein	5.10E-04	NM_028148
641	Stk11	serine/threonine kinase 11	5.12E-04	NM_011492

642	LOC100046232 /// Nfil3	similar to NFIL3/E4BP4 transcription factor /// nuclear factor, interleukin 3, r	5.12E-04	NM_017373 /// XM_001475817
643	Pigs	phosphatidylinositol glycan anchor biosynthesis, class S	5.13E-04	NM_201406
644	Brwd1	bromodomain and WD repeat domain containing 1	5.13E-04	NM_001103179 /// NM_145125 /// NM_176928
645	Asb5	ankyrin repeat and SOCs box-containing 5	5.14E-04	NM_029569
646	Senp2	SUMO/sentrin specific peptidase 2	5.17E-04	NM_029457 /// NR_027488
647	Tardbp	TAR DNA binding protein	5.19E-04	NM_001003898 /// NM_001003899 /// NM_001008545 /// NM_001008546
648	Igf2	insulin-like growth factor 2	5.21E-04	NM_001122736 /// NM_001122737 /// NM_010514
649	---	---	5.24E-04	---
650	Mmp3	matrix metallopeptidase 3	5.25E-04	NM_010809
651	Zscan21	zinc finger and SCAN domain containing 21	5.27E-04	NM_001044703 /// NM_001044704 /// NM_001044705 /// NM_011757
652	Kif1b	kinesin family member 1B	5.28E-04	NM_008441 /// NM_207682
653	BC018101 /// Zfp97	cDNA sequence BC018101 /// zinc finger protein 97	5.28E-04	NM_001005358 /// NM_001163919 /// NM_011765
654	Cnot8	CCR4-NOT transcription complex, subunit 8	5.30E-04	NM_026949
655	Utrn	utrophin	5.33E-04	NM_011682
656	Cadm1	cell adhesion molecule 1	5.34E-04	NM_001025600 /// NM_018770 /// NM_207675 /// NM_207676
657	Gucy1a3	guanylate cyclase 1, soluble, alpha 3	5.35E-04	NM_021896
658	Hipk1	homeodomain interacting protein kinase 1	5.36E-04	NM_010432
659	Bmi1	Bmi1 polycomb ring finger oncogene	5.38E-04	NM_007552
660	Plxnc1	plexin C1	5.38E-04	NM_018797
661	O610037L13Rik	RIKEN cDNA O610037L13 gene	5.43E-04	NM_028754
662	Pnkd	paroxysmal nonkinesinogenic dyskinesia	5.43E-04	NM_001039509 /// NM_019999 /// NM_025580
663	Pdlim5	PDZ and LIM domain 5	5.45E-04	NM_019808 /// NM_019809 /// NM_022554
664	---	---	5.49E-04	---
665	Ncl	nucleolin	5.51E-04	NM_010880
666	Crk	v-crk sarcoma virus CT10 oncogene homolog (avian)	5.52E-04	NM_133656
667	Fam86	family with sequence similarity 86	5.55E-04	NM_027446
668	Lpp	LIM domain containing preferred translocation partner in lipoma	5.56E-04	NM_001145952 /// NM_001145954 /// NM_178665
669	Lyst	lysosomal trafficking regulator	5.62E-04	NM_010748
670	Enpep	glutamyl aminopeptidase	5.64E-04	NM_007934
671	Dnmt3a	DNA methyltransferase 3A	5.65E-04	NM_007872 /// NM_153743
672	Srp54a /// Srp54b	signal recognition particle 54a /// signal recognition particle 54b	5.66E-04	NM_001100109 /// NM_011899 /// XM_001479059 /// XM_976391
673	Ube2d2	ubiquitin-conjugating enzyme E2D 2	5.66E-04	NM_019912
674	Asb6	ankyrin repeat and SOCS box-containing 6	5.70E-04	NM_133346
675	LOC674195 /// Usp48	hypothetical protein LOC674195 /// ubiquitin specific peptidase 48	5.73E-04	NM_130879 /// XM_001052064
676	Herc2	hect (homologous to the E6-AP (UBE3A) carboxyl terminus) domain and RCC1 (CHC1)	5.77E-04	NM_010418
677	Ergic3	ERGIC and golgi 3	5.77E-04	NM_025516
678	Klhl7	kelch-like 7 (Drosophila)	5.78E-04	NM_001161800 /// NM_026448
679	Fance	Fanconi anemia, complementation group E	5.79E-04	NM_001163819 /// NM_001163820 /// NR_028296 /// NR_028297 /// NM_001163821
680	Tnk2	tyrosine kinase, non-receptor, 2	5.82E-04	NM_001110147 /// NM_016788
681	Znrf1	zinc and ring finger 1	5.82E-04	NM_133206
682	Pttg1	pituitary tumor-transforming gene 1	5.84E-04	NM_001131054 /// NM_013917
683	Lama4	laminin, alpha 4	5.88E-04	NM_010681
684	Rbm5	RNA binding motif protein 5	5.89E-04	NM_148930
685	Csnk2a1 /// Gm10031	casein kinase 2, alpha 1 polypeptide /// predicted gene 10031	5.90E-04	NM_007788 /// XM_001472047
686	Podxl	podocalyxin-like	5.93E-04	NM_013723
687	Pcmt1	protein-L-isospartate (D-aspartate) O-methyltransferase domain containing 1	5.93E-04	NM_183028

688	Lgals3bp	lectin, galactoside-binding, soluble, 3 binding protein	5.98E-04	NM_011150
689	Fads2	fatty acid desaturase 2	5.98E-04	NM_019699
690	Gtrgeo22	gene trap ROSA b-geo 22	6.01E-04	NM_148934
691	Foxp1	forkhead box P1	6.04E-04	NM_053202
692	Trmt1	TRM1 tRNA methyltransferase 1 homolog (S. cerevisiae)	6.08E-04	NM_001164559 /// NM_001164560 /// NM_198020
693	Bace1	beta-site APP cleaving enzyme 1	6.11E-04	NM_001145947 /// NM_011792
694	Tjp2	tight junction protein 2	6.12E-04	NM_011597
695	Kpna1	karyopherin (Importin) alpha 1	6.13E-04	NM_008465
696	2510006D16Rik	RIKEN cDNA 2510006D16 gene	6.18E-04	NM_029748
697	Frmd8	FERM domain containing 8	6.22E-04	NM_026169
698	Tnxb	tenascin XB	6.23E-04	NM_031176
699	Hnrnpu	heterogeneous nuclear ribonucleoprotein U	6.24E-04	NM_016805
700	Gmppa	GDP-mannose pyrophosphorylase A	6.24E-04	NM_133708
701	Txn1	thioredoxin 1	6.28E-04	NM_011660
702	Dpysl3	dihydropyrimidinase-like 3	6.30E-04	NM_001136086 /// NM_009468
703	Igf1	insulin-like growth factor 1	6.33E-04	NM_001111274 /// NM_001111275 /// NM_001111276 /// NM_010512 /
704	Ssbp3	single-stranded DNA binding protein 3	6.33E-04	NM_023672 /// NM_198438
705	Son	Son DNA binding protein	6.35E-04	NM_019973 /// NM_178880
706	Fmo5	flavin containing monooxygenase 5	6.41E-04	NM_001161763 /// NM_001161765 /// NM_010232
707	Hsbp1	heat shock factor binding protein 1	6.42E-04	NM_024219
708	Aup1	ancient ubiquitous protein 1	6.48E-04	NM_007517
709	Snap23	synaptosomal-associated protein 23	6.51E-04	NM_009222
710	Chd4	chromodomain helicase DNA binding protein 4	6.56E-04	NM_145979
711	Fam63a	family with sequence similarity 63, member A	6.56E-04	NM_133858
712	Neurog3	neurogenin 3	6.60E-04	NM_009719
713	Xdh	xanthine dehydrogenase	6.63E-04	NM_011723
714	Pcbp4	poly(rC) binding protein 4	6.64E-04	NM_021567
715	Gsn	gelsolin	6.71E-04	NM_146120
716	Zfp106	zinc finger protein 106	6.71E-04	NM_011743
717	Fam36a	family with sequence similarity 36, member A	6.71E-04	NM_025511
718	Rlan	RNA imprinted and accumulated in nucleus	6.75E-04	NR_028261 /// XM_901568 /// XM_922645
719	Baz2b	bromodomain adjacent to zinc finger domain, 2B	6.76E-04	NM_001001182
720	Cux2	cut-like homeobox 2	6.77E-04	NM_007804
721	Cluap1	clusterin associated protein 1	6.78E-04	NM_029738
722	D2Wsu81e	DNA segment, Chr 2, Wayne State University 81, expressed	6.85E-04	NM_172660
723	Stxbp2	syntaxin binding protein 2	6.86E-04	NM_011503
724	Preli1	PRELI domain containing 1	6.88E-04	NM_025596
725	Ccdc92	coiled-coil domain containing 92	6.89E-04	NM_144819
726	Map3k7	mitogen-activated protein kinase kinase kinase 7	6.94E-04	NM_009316 /// NM_172688
727	Rnf11	ring finger protein 11	6.96E-04	NM_013876
728	NIK	nemo like kinase	6.96E-04	NM_008702
729	Rbm25	RNA binding motif protein 25	6.97E-04	NM_025930 /// NM_027349
730	Cd80	CD80 antigen	7.00E-04	NM_009855
731	Tcf2a	transcription factor E2a	7.02E-04	NM_001164147 /// NM_001164148 /// NM_001164149 /// NM_001164150
732	0610010B08Rik /// Gm142	RIKEN cDNA 0610010B08 gene /// predicted gene 14295 /// similar to zinc finger p	7.04E-04	XM_001472180 /// XM_001472314 /// XM_895085 /// XM_902617 /// XM_902618
733	C630004H02Rik	RIKEN cDNA C630004H02 gene	7.07E-04	NM_175454

734	Ctsw	cathepsin W	7.12E-04	NM_009985
735	Tbl1xr1	transducin (beta)-like 1X-linked receptor 1	7.13E-04	NM_030732
736	Anapc4	anaphase promoting complex subunit 4	7.15E-04	NM_024213
737	Enpp4	ectonucleotide pyrophosphatase/phosphodiesterase 4	7.18E-04	NM_199016
738	Chst1	carbohydrate (keratan sulfate Gal-6) sulfotransferase 1	7.20E-04	NM_023850
739	Slc35c2	solute carrier family 35, member C2	7.27E-04	NM_144893
740	Shmt1	serine hydroxymethyltransferase 1 (soluble)	7.36E-04	NM_009171
741	Smarcc1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subf	7.36E-04	NM_009211
742	2310001A20Rik	RIKEN cDNA 2310001A20 gene	7.36E-04	NM_027977
743	Gzma	granzyme A	7.37E-04	NM_010370
744	Lima1	LIM domain and actin binding 1	7.38E-04	NM_001113545 /// NM_023063
745	Asna1	arsA arsenite transporter, ATP-binding, homolog 1 (bacterial)	7.44E-04	NM_019652
746	Cav2	caveolin 2	7.46E-04	NM_016900
747	Lamb1-1	laminin B1 subunit 1	7.49E-04	NM_008482
748	Nasp	nuclear autoantigenic sperm protein (histone-binding)	7.49E-04	NM_001081475 /// NM_016777
749	Igh	Immunoglobulin heavy chain complex	7.51E-04	---
750	Mut	methylmalonyl-Coenzyme A mutase	7.53E-04	NM_008650
751	Suv420h1	suppressor of variegation 4-20 homolog 1 (Drosophila)	7.63E-04	NM_144871
752	Endod1	endonuclease domain containing 1	7.63E-04	NM_028013
753	Fxc1	fractured callus expressed transcript 1	7.65E-04	NM_019502
754	F8a	factor 8-associated gene A	7.66E-04	NM_007978
755	Siah2	seven in absentia 2	7.66E-04	NM_009174
756	Gm5529 /// Gm5560 /// G	predicted gene 5529 /// predicted gene 5560 /// predicted gene 6425 /// predicte	7.72E-04	NM_001081233 /// NM_007451 /// XM_484885 /// XM_887851 /// XM_9
757	Mus81	MUS81 endonuclease homolog (yeast)	7.72E-04	NM_027877
758	Rgs5	regulator of G-protein signaling 5	7.73E-04	NM_009063
759	2900073G15Rik	RIKEN cDNA 2900073G15 gene	7.74E-04	NM_026064
760	Lamb1-1	laminin B1 subunit 1	7.76E-04	NM_008482
761	Ddhd2	DDHD domain containing 2	7.77E-04	NM_028102 /// XM_356065 /// XM_911470 /// XM_983745
762	Klf7	Kruppel-like factor 7 (ubiquitous)	7.78E-04	NM_033563
763	Itpr3	inositol 1,4,5-triphosphate receptor 3	7.80E-04	NM_080553
764	Srrm1	serine/arginine repetitive matrix 1	7.81E-04	NM_001130477 /// NM_016799
765	Nfatc3	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3	7.81E-04	NM_010901
766	Pnpla7	patatin-like phospholipase domain containing 7	7.82E-04	NM_146251
767	Elp2	elongation protein 2 homolog (S. cerevisiae)	7.85E-04	NM_021448
768	Cdh2	cadherin 2	7.86E-04	NM_007664
769	Ciz1	CDKN1A interacting zinc finger protein 1	7.86E-04	NM_028412
770	Ncstn	nicastrin	7.90E-04	NM_021607
771	Nudt7	nudix (nucleoside diphosphate linked moiety X)-type motif 7	7.93E-04	NM_024437 /// NM_024446
772	Nlgn2	neuroligin 2	7.93E-04	NM_198862
773	Hrk	harakiri, BCL2 interacting protein (contains only BH3 domain)	7.96E-04	NM_007545
774	Mbtps1	membrane-bound transcription factor peptidase, site 1	7.97E-04	NM_019709
775	Gna11	guanine nucleotide binding protein, alpha 11	7.98E-04	NM_010301
776	---	---	8.01E-04	---
777	Pdcl	phosducin-like	8.03E-04	NM_026176
778	Gm2648 /// Gm5481 /// G	ribosomal protein L30 pseudogene /// predicted gene 5481 /// predicted gene 6109	8.05E-04	NM_001163485 /// NM_009083 /// XM_001474827 /// XM_001475086 //
779	---	---	8.07E-04	---

780	Rgs5	regulator of G-protein signaling 5	8.07E-04	NM_009063
781	Atf6b	activating transcription factor 6 beta	8.08E-04	NM_017406
782	Rab7	RAB7, member RAS oncogene family	8.16E-04	NM_009005
783	Inpp5k	inositol polyphosphate 5-phosphatase K	8.21E-04	NM_008916
784	Elf5b	eukaryotic translation initiation factor 5B	8.21E-04	NM_198303
785	Ift172	intraflagellar transport 172 homolog (Chlamydomonas)	8.21E-04	NM_026298
786	Foxp1	Forkhead box P1	8.26E-04	NM_053202
787	Kank2	KN motif and ankyrin repeat domains 2	8.29E-04	NM_145611
788	Zmynd11	zinc finger, MYND domain containing 11	8.30E-04	NM_144516
789	Tjp2	tight junction protein 2	8.35E-04	NM_011597
790	Plt1pnb	phosphatidylinositol transfer protein, beta	8.43E-04	NM_019640
791	Gck	glucokinase	8.45E-04	NM_010292
792	Pdcd6ip	Programmed cell death 6 interacting protein	8.46E-04	NM_011052
793	Clcn7	chloride channel 7	8.47E-04	NM_011930
794	Tm7sf3	transmembrane 7 superfamily member 3	8.52E-04	NM_026281 /// XM_001475674
795	Rest	RE1-silencing transcription factor	8.55E-04	NM_011263
796	Csnk1d	casein kinase 1, delta	8.56E-04	NM_027874 /// NM_139059
797	Mrps23	mitochondrial ribosomal protein S23	8.58E-04	NM_024174
798	2010107G23Rik	RIKEN cDNA 2010107G23 gene	8.64E-04	NM_027251
799	Gas5	growth arrest specific 5	8.64E-04	NR_002840
800	Lyrm2	LYR motif containing 2	8.64E-04	NM_175364
801	Wars	tryptophanyl-tRNA synthetase	8.65E-04	NM_001164314 /// NM_001164488 /// NM_011710
802	Zfyve21	zinc finger, FYVE domain containing 21	8.69E-04	NM_026752
803	Hmgb2	high mobility group box 2	8.71E-04	NM_008252
804	Kpna1	karyopherin (importin) alpha 1	8.75E-04	NM_008465
805	Cyfp2	cytoplasmic FMR1 interacting protein 2	8.77E-04	NM_133769
806	Rbbp8	retinoblastoma binding protein 8	8.80E-04	NM_001081223
807	Spats2	spermatogenesis associated, serine-rich 2	8.82E-04	NM_139140
808	Tomm7	translocase of outer mitochondrial membrane 7 homolog (yeast)	8.82E-04	NM_025394
809	Stard8	START domain containing 8	8.88E-04	NM_199018
810	Fam101b	family with sequence similarity 101, member B	8.89E-04	XM_893392 /// XM_983541
811	Fus	fusion, derived from t(12;16) malignant liposarcoma (human)	8.89E-04	NM_139149
812	Tnrc6a	trinucleotide repeat containing 6a	8.90E-04	NM_144925
813	Ogt	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:poly	8.90E-04	NM_139144
814	1100001G20Rik	RIKEN cDNA 1100001G20 gene	8.91E-04	NM_183249
815	Zfp275	zinc finger protein 275	8.92E-04	NM_001160229 /// NM_031494
816	Ing3	inhibitor of growth family, member 3	8.95E-04	NM_023626
817	Rnf185	ring finger protein 185	8.98E-04	NM_145355
818	Sel1l	sel-1 suppressor of lin-12-like (C. elegans)	8.99E-04	NM_001039089 /// NM_011344
819	Luc7l	Luc7 homolog (S. cerevisiae)-like	8.99E-04	NM_025881 /// NM_028190
820	Traf6	TNF receptor-associated factor 6	8.99E-04	NM_009424 /// XM_001479093 /// XM_001479837
821	Sertad2	SERTA domain containing 2	9.01E-04	NM_001038625 /// NM_021372
822	C1gal1	core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase	9.08E-04	NM_052993
823	Clcn3	chloride channel 3	9.10E-04	NM_007711 /// NM_173873 /// NM_173874 /// NM_173876
824	Xlr3a /// Xlr3b /// Xlr3c	X-linked lymphocyte-regulated 3A /// X-linked lymphocyte-regulated 3B /// X-link	9.11E-04	NM_001081643 /// NM_001110784 /// NM_011726 /// NM_011727 /// X
825	Hemk1	HemK methyltransferase family member 1	9.17E-04	NM_133984

826	Sirt7	sirtuin 7 (silent mating type information regulation 2, homolog) 7 (S. cerevisia	9.19E-04	NM_153056
827	Rock2	Rho-associated coiled-coil containing protein kinase 2	9.23E-04	NM_009072
828	Gpr177	G protein-coupled receptor 177	9.24E-04	NM_026582
829	Cd320	CD320 antigen	9.26E-04	NM_019421
830	Ralgps2	Ral GEF with PH domain and SH3 binding motif 2	9.28E-04	NM_001159965 /// NM_001159966 /// NM_001159967 /// NM_001159968
831	Kcmf1	potassium channel modulatory factor 1	9.33E-04	NM_019715 /// XM_001477544
832	Rbm7	RNA binding motif protein 7	9.35E-04	NM_144948
833	Acp1	acid phosphatase 1, soluble	9.36E-04	NM_001110239 /// NM_021330
834	Rere	arginine glutamic acid dipeptide (RE) repeats	9.38E-04	NM_001085492 /// XM_204015 /// XM_907824
835	D0H4S114	DNA segment, human D4S114	9.38E-04	NM_001109988 /// NM_001109989 /// NM_001109990 /// NM_053078
836	Zfp790	zinc finger protein 790	9.40E-04	NM_001145880 /// NM_146185
837	Trappc6a	trafficking protein particle complex 6A	9.44E-04	NM_025960
838	Ttc14	tetratricopeptide repeat domain 14	9.48E-04	NM_025978 /// NM_027619
839	A1428936	expressed sequence A1428936	9.48E-04	NM_153577
840	Slc25a39	Solute carrier family 25, member 39	9.56E-04	NM_026542
841	Zfp148	zinc finger protein 148	9.56E-04	NM_011749
842	Pdlim5	PDZ and LIM domain 5	9.59E-04	NM_019808 /// NM_019809 /// NM_022554
843	Lepre1	leprecan 1	9.61E-04	NM_001042411 /// NM_019782 /// NM_019783
844	Scpep1	serine carboxypeptidase 1	9.66E-04	NM_029023
845	Ube3a	ubiquitin protein ligase E3A	9.67E-04	NM_001033962 /// NM_011668 /// NM_173010
846	1300001101Rik	RIKEN cDNA 1300001101 gene	9.67E-04	NM_001081158
847	Slc44a2	solute carrier family 44, member 2	9.68E-04	NM_152808
848	Fbxo36	F-box protein 36	9.70E-04	NM_025386
849	Cckbr	cholecystokinin B receptor	9.70E-04	NM_007627
850	Pik3r1	phosphatidylinositol 3-kinase, regulatory subunit, polypeptide 1 (p85 alpha)	9.72E-04	NM_001024955 /// NM_001077495
851	Csf3r	colony stimulating factor 3 receptor (granulocyte)	9.75E-04	NM_007782
852	Procr	protein C receptor, endothelial	9.79E-04	NM_011171
853	Ubr7	ubiquitin protein ligase E3 component n-recogin 7 (putative)	9.83E-04	NM_025666
854	Ctcf	CCCTC-binding factor	9.92E-04	NM_007794 /// NM_181322
855	Elf3c	eukaryotic translation initiation factor 3, subunit C	9.96E-04	NM_146200
856	Vps72	vacuolar protein sorting 72 (yeast)	9.97E-04	NM_009336
857	Hgs	HGF-regulated tyrosine kinase substrate	1.00E-03	NM_001159328 /// NM_008244
858	Mapre1	microtubule-associated protein, RP/EB family, member 1	1.00E-03	NM_007896
859	Cox7c /// Gm10012 /// Gm10013	cytochrome c oxidase, subunit VIIc /// cytochrome c oxidase, subunit VIIc pseudo	1.00E-03	NM_007749 /// NR_028042 /// XM_001477253 /// XM_001477263 /// XM_001477273
860	Ero1lb	ERO1-like beta (S. cerevisiae)	1.00E-03	NM_026184
861	Got1	glutamate oxaloacetate transaminase 1, soluble	1.01E-03	NM_010324
862	Nudt22	nudix (nucleoside diphosphate linked moiety X)-type motif 22	1.01E-03	NM_026675
863	Mtm1	X-linked myotubular myopathy gene 1	1.02E-03	NM_001164190 /// NM_001164191 /// NM_001164192 /// NM_001164193
864	Zfp161	zinc finger protein 161	1.02E-03	NM_009547
865	Ero1l	ERO1-like (S. cerevisiae)	1.03E-03	NM_015774
866	Htr2b	5-hydroxytryptamine (serotonin) receptor 2B	1.03E-03	NM_008311
867	Kat2a	K(lysine) acetyltransferase 2A	1.03E-03	NM_001038010 /// NM_020004
868	Scube1	signal peptide, CUB domain, EGF-like 1	1.03E-03	NM_022723
869	Tbc1d19	TBC1 domain family, member 19	1.04E-03	NM_144517
870	Ugg1	UDP-glucose glycoprotein glucosyltransferase 1	1.05E-03	NM_198899
871	Ptcd1	tetratricopeptide repeat domain 1	1.05E-03	NM_133735

872	Gng12	guanine nucleotide binding protein (G protein), gamma 12	1.05E-03	NM_025278
873	2600001M11RIK	RIKEN cDNA 2600001M11 gene	1.06E-03	---
874	Mttr2	myotubularin related protein 2	1.06E-03	NM_023858 /// NR_024025
875	Rpl17	ribosomal protein L17	1.06E-03	NM_001002239
876	Srprb	signal recognition particle receptor, B subunit	1.06E-03	NM_009275
877	Cdkn1b	cyclin-dependent kinase inhibitor 1B	1.07E-03	NM_009875
878	Bcl7c	B-cell CLL/lymphoma 7C	1.07E-03	NM_009746
879	Synrg	synergin, gamma	1.07E-03	NM_001115009 /// NM_194341
880	Gpr137b	G protein-coupled receptor 137B	1.07E-03	NM_031999
881	Ankrd17	ankyrin repeat domain 17	1.08E-03	NM_030886 /// NM_198010
882	Cdh5	cadherin 5	1.08E-03	NM_009868
883	Wac	WW domain containing adaptor with coiled-coil	1.08E-03	NM_001146298 /// NM_153085 /// NR_027465
884	Zfp704	zinc finger protein 704	1.08E-03	NM_133218
885	3300001P08RIK	RIKEN cDNA 3300001P08 gene	1.09E-03	NM_026313
886	Acvr1b	activin A receptor, type 1B	1.09E-03	NM_007395
887	Gbp6	guanylate binding protein 6	1.09E-03	NM_001083312 /// NM_145545
888	1200009O22RIK	RIKEN cDNA 1200009O22 gene	1.09E-03	NM_025817
889	Il1rl1	interleukin 1 receptor-like 1	1.09E-03	NM_001025602 /// NM_010743
890	Zfp445	zinc finger protein 445	1.09E-03	NM_173364
891	Ltb4r1	leukotriene B4 receptor 1	1.10E-03	NM_008519
892	B4galt7	xylosylprotein beta1,4-galactosyltransferase, polypeptide 7 (galactosyltransferase)	1.10E-03	NM_146045
893	2310075K07RIK	RIKEN cDNA 2310075K07 gene	1.11E-03	---
894	Stx18	syntaxin 18	1.11E-03	NM_026959
895	Spg7	spastic paraplegia 7 homolog (human)	1.11E-03	NM_153176
896	Cpd	carboxypeptidase D	1.11E-03	NM_007754
897	Zdhhc4	zinc finger, DHHC domain containing 4	1.11E-03	NM_028379
898	Prrg2	proline-rich Gla (G-carboxyglutamic acid) polypeptide 2	1.12E-03	NM_022999
899	Glce	glucuronyl C5-epimerase	1.12E-03	NM_033320
900	Arl2	ADP-ribosylation factor-like 2	1.13E-03	NM_019722
901	Mxd4	Max dimerization protein 4	1.13E-03	NM_010753
902	Elk3	ELK3, member of ETS oncogene family	1.15E-03	NM_013508 /// NM_205536
903	Shroom3	shroom family member 3	1.15E-03	NM_001077595 /// NM_001077596 /// NM_015756
904	Pfdn1	prefoldin 1	1.16E-03	NM_026027
905	Cmpk2	cytidine monophosphate (UMP-CMP) kinase 2, mitochondrial	1.16E-03	NM_020557
906	Speer4f	spermatogenesis associated glutamate (E)-rich protein 4f	1.16E-03	NM_027609
907	Vapb	vesicle-associated membrane protein, associated protein B and C	1.17E-03	NM_019806
908	Tsn	translin	1.17E-03	NM_011650
909	Pank1	pantothenate kinase 1	1.17E-03	NM_001114339 /// NM_023792
910	Rab22a	RAB22A, member RAS oncogene family	1.18E-03	NM_024436
911	Dab2	disabled homolog 2 (Drosophila)	1.18E-03	NM_001008702 /// NM_001037905 /// NM_001102400 /// NM_023118
912	Rbp1	retinol binding protein 1, cellular	1.18E-03	NM_011254 /// XM_001473622
913	S1pr1	sphingosine-1-phosphate receptor 1	1.18E-03	NM_007901
914	Cysltr1	cysteiny leukotriene receptor 1	1.18E-03	NM_021476
915	Hist1h3a /// Hist1h3b /// Hist1h3c	histone cluster 1, H3a /// histone cluster 1, H3b /// histone cluster 1, H3c ///	1.18E-03	NM_013548 /// NM_013550 /// NM_019469 /// NM_054045 /// NM_145011
916	Clock	circadian locomotor output cycles kaput	1.19E-03	NM_007715
917	Rheb1	Ras homolog enriched in brain like 1	1.19E-03	NM_026967

918	Brunol4	bruno-like 4, RNA binding protein (Drosophila)	1.20E-03	NM_001146292 /// NM_001146293 /// NM_001146294 /// NM_001146295
919	Polr1b	polymerase (RNA) I polypeptide B	1.20E-03	NM_009086
920	Plekhj1	pleckstrin homology domain containing, family J member 1	1.20E-03	NM_023900
921	Napa	N-ethylmaleimide sensitive fusion protein attachment protein alpha	1.20E-03	NM_025898
922	Gmfb	glia maturation factor, beta	1.21E-03	NM_022023
923	Prpf40a	PRP40 pre-mRNA processing factor 40 homolog A (yeast)	1.21E-03	NM_018785
924	Ehd1	EH-domain containing 1	1.22E-03	NM_010119
925	Rapgef3	Rap guanine nucleotide exchange factor (GEF) 3	1.22E-03	NM_144850
926	Foxp1	forkhead box P1	1.23E-03	NM_053202
927	Gfm1	G elongation factor, mitochondrial 1	1.23E-03	NM_138591
928	Lztr1	leucine-zipper-like transcriptional regulator, 1	1.24E-03	NM_025808
929	Cyhr1	cysteine and histidine rich 1	1.24E-03	NM_019396 /// NM_180962
930	Ric8	resistance to inhibitors of cholinesterase 8 homolog (C. elegans)	1.24E-03	NM_053194
931	Hps1	Hermansky-Pudlak syndrome 1 homolog (human)	1.24E-03	NM_019424
932	Rap1gap	Rap1 GTPase-activating protein	1.24E-03	NM_001081155
933	Brms1	breast cancer metastasis-suppressor 1	1.24E-03	NM_134155
934	Aftph	aftiphilin	1.25E-03	NM_181411
935	2210016L21Rik	RIKEN cDNA 2210016L21 gene	1.26E-03	NM_028211
936	App1	adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper conta	1.26E-03	NM_145221
937	Ccdc93	coiled-coil domain containing 93	1.26E-03	NM_001025156 /// NM_027567 /// NM_029955
938	Bclaf1	BCL2-associated transcription factor 1	1.27E-03	NM_001025392 /// NM_001025393 /// NM_153787
939	Fdft1	farnesyl diphosphate farnesyl transferase 1	1.27E-03	NM_010191
940	Il4ra	interleukin 4 receptor, alpha	1.28E-03	NM_001008700
941	Elf3a	eukaryotic translation initiation factor 3, subunit A	1.28E-03	NM_010123
942	Akr7a5	aldo-keto reductase family 7, member A5 (aflatoxin aldehyde reductase)	1.28E-03	NM_025337
943	Zadh2	zinc binding alcohol dehydrogenase, domain containing 2	1.28E-03	NM_146090
944	Dph5	DPH5 homolog (S. cerevisiae)	1.28E-03	NM_027193
945	Nek6	NIMA (never in mitosis gene a)-related expressed kinase 6	1.28E-03	NM_001159631 /// NM_021606
946	Tcerg1	transcription elongation regulator 1 (CA150)	1.29E-03	NM_001039474
947	Bmp6	bone morphogenetic protein 6	1.29E-03	NM_007556
948	Arg2	arginase type II	1.30E-03	NM_009705
949	Ly6d	lymphocyte antigen 6 complex, locus D	1.30E-03	NM_010742
950	Usp2	ubiquitin specific peptidase 2	1.31E-03	NM_016808 /// NM_198091 /// NM_198092
951	Pvt1	plasmacytoma variant translocation 1	1.31E-03	NR_003368
952	Gpr137b /// Gpr137b-ps ///	G protein-coupled receptor 137B /// G protein-coupled receptor 137B, pseudogene	1.31E-03	NM_031999 /// NR_003568 /// XM_001473441 /// XR_001658
953	Irf5	interferon regulatory factor 5	1.32E-03	NM_012057
954	Parva	parvin, alpha	1.32E-03	NM_020606
955	Enpp2	ectonucleotide pyrophosphatase/phosphodiesterase 2	1.34E-03	NM_001136077 /// NM_015744
956	Taf7	TAF7 RNA polymerase II, TATA box binding protein (TBP)-associated factor	1.35E-03	NM_011901 /// NM_175770
957	Ptplad2	protein tyrosine phosphatase-like A domain containing 2	1.36E-03	NM_025760
958	G0s2	G0/G1 switch gene 2	1.36E-03	NM_008059
959	---	---	1.37E-03	---
960	Rnf157	ring finger protein 157	1.37E-03	NM_027258 /// XM_001003576 /// XM_001003581 /// XM_126776
961	Acacb /// LOC100047358	acetyl-Coenzyme A carboxylase beta /// similar to acetyl-Coenzyme A carboxylase	1.37E-03	NM_133904 /// XR_033562
962	Klf13	Kruppel-like factor 13	1.37E-03	NM_021366
963	Gm2382 /// Mthfs	predicted gene 2382 /// 5, 10-methenyltetrahydrofolate synthetase	1.37E-03	NM_001128601 /// NM_026829 /// XM_001473273

964	---	---	1.38E-03	---
965	Ascc1	activating signal cointegrator 1 complex subunit 1	1.38E-03	NM_026937
966	Plxdc2	plexin domain containing 2	1.40E-03	NM_026162
967	2210419D22Rik	RIKEN cDNA 2210419D22 gene	1.40E-03	---
968	Ak3	adenylate kinase 3	1.41E-03	NM_021299
969	Wwc2	WW, C2 and coiled-coil domain containing 2	1.41E-03	NM_133791
970	Ifitm1	interferon induced transmembrane protein 1	1.41E-03	NM_001112715 /// NM_026820
971	Tesk1	testis specific protein kinase 1	1.41E-03	NM_011571
972	Tradd	TNFRSF1A-associated via death domain	1.42E-03	NM_001033161
973	Ccdc132	coiled-coil domain containing 132	1.42E-03	NM_024260
974	Tnfrsf13b	tumor necrosis factor receptor superfamily, member 13b	1.42E-03	NM_021349
975	Rbm5	RNA binding motif protein 5	1.42E-03	NM_148930
976	Cebpd	CCAAT/enhancer binding protein (C/EBP), delta	1.42E-03	NM_007679
977	Pde6d	phosphodiesterase 6D, cGMP-specific, rod, delta	1.42E-03	NM_008801
978	Igf2as	insulin-like growth factor 2, antisense	1.42E-03	NR_002855
979	Trim54	tripartite motif-containing 54	1.43E-03	NM_021447
980	Vamp1	vesicle-associated membrane protein 1	1.43E-03	NM_001080557 /// NM_009496
981	Nomo1	nodal modulator 1	1.43E-03	NM_153057
982	Clock	circadian locomotor output cycles kaput	1.44E-03	NM_007715
983	Nop58	NOP58 ribonucleoprotein homolog (yeast)	1.44E-03	NM_018868
984	Dgkz	diacylglycerol kinase zeta	1.44E-03	NM_138306
985	Serp1nb1a	serine (or cysteine) peptidase inhibitor, clade B, member 1a	1.45E-03	NM_025429
986	Slamf9	SLAM family member 9	1.45E-03	NM_029612
987	Wwtr1	WW domain containing transcription regulator 1	1.45E-03	NM_133784
988	Itpr1	inositol 1,4,5-triphosphate receptor 1	1.46E-03	NM_010585
989	Gm11560 /// Gm6540 /// L	CCAAT-binding protein /// predicted gene 6540 /// similar to transcription facto	1.46E-03	NM_011732 /// XM_001473821 /// XR_001819 /// XR_030657 /// XR_03
990	Phip	pleckstrin homology domain interacting protein	1.46E-03	NM_001081216
991	6720475J19Rik	RIKEN cDNA 6720475J19 gene	1.47E-03	XM_001474896 /// XM_001481296
992	Gne	glucosamine	1.47E-03	NM_015828
993	D0H4S114	DNA segment, human D4S114	1.47E-03	NM_001109988 /// NM_001109989 /// NM_001109990 /// NM_053078
994	Dctn6	dynactin 6	1.47E-03	NM_011722
995	Glul	glutamate-ammonia ligase (glutamine synthetase)	1.48E-03	NM_008131
996	Ftsj3	FtsJ homolog 3 (E. coli)	1.48E-03	NM_025310
997	Plk2	PTK2 protein tyrosine kinase 2	1.49E-03	NM_001130409 /// NM_007982
998	Refbp2 /// Thoc4	RNA and export factor binding protein 2 /// THO complex 4	1.49E-03	NM_011568 /// NM_019484
999	Selm	selenoprotein M	1.50E-03	NM_053267
1000	Acad10	acyl-Coenzyme A dehydrogenase family, member 10	1.50E-03	NM_028037
1001	Ier3	immediate early response 3	1.51E-03	NM_133662
1002	A1413582	expressed sequence A1413582	1.51E-03	NM_001002895
1003	Ubp1	upstream binding protein 1	1.51E-03	NM_001083319 /// NM_013699
1004	Ms4a4c	membrane-spanning 4-domains, subfamily A, member 4C	1.52E-03	NM_029499
1005	Dsn1	DSN1, MIND kinetochore complex component, homolog (S. cerevisiae)	1.52E-03	NM_025853
1006	Sepn1	selenoprotein N, 1	1.52E-03	NM_029100
1007	Ppp2ca	protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform	1.53E-03	NM_019411
1008	Scel	sciellin	1.54E-03	NM_022886
1009	Kdm4b	lysine (K)-specific demethylase 4B	1.54E-03	NM_172132

1010	Supt16h	suppressor of Ty 16 homolog (<i>S. cerevisiae</i>)	1.56E-03	NM_033618
1011	Osr1	odd-skipped related 1 (<i>Drosophila</i>)	1.56E-03	NM_011859
1012	Cd84	CD84 antigen	1.56E-03	NM_013489
1013	LOC100046746 /// Smap1	similar to SMAP1 /// stromal membrane-associated protein 1	1.56E-03	NM_028534 /// XM_001476743
1014	Arl6ip1	ADP-ribosylation factor-like 6 interacting protein 1	1.57E-03	NM_019419
1015	Glc1c1 /// Gm5815 /// LOC	glucocorticoid induced transcript 1 /// predicted gene 5815 /// similar to gluco	1.57E-03	NM_133236 /// XM_001475372 /// XM_619479 /// XM_914705
1016	Arid5b /// LOC100044968	AT rich interactive domain 5B (MRF1-like) /// similar to modulator recognition f	1.57E-03	NM_023598 /// XM_001473421
1017	Ick	intestinal cell kinase	1.57E-03	NM_001163780 /// NM_019987
1018	8-Sep	septin 8	1.58E-03	NM_033144
1019	Mier2	mesoderm induction early response 1, family member 2	1.58E-03	NM_027422
1020	Sel1l	sel-1 suppressor of lin-12-like (<i>C. elegans</i>)	1.58E-03	NM_001039089 /// NM_011344
1021	Plxdc1	plexin domain containing 1	1.59E-03	NM_001163608 /// NM_028199
1022	Zc3hc1	zinc finger, C3HC type 1	1.59E-03	NM_172735
1023	Prr5	proline rich 5 (renal)	1.60E-03	NM_146061
1024	Pck2	phosphoenolpyruvate carboxykinase 2 (mitochondrial)	1.61E-03	NM_028994
1025	Kpna1	karyopherin (importin) alpha 1	1.61E-03	NM_008465
1026	Rtt1	rotatin	1.62E-03	NM_175542
1027	Wsb2	WD repeat and SOCS box-containing 2	1.63E-03	NM_021539
1028	Fbn1	fibrillin 1	1.63E-03	NM_007993
1029	4-Sep	septin 4	1.63E-03	NM_011129
1030	Ankzf1	ankyrin repeat and zinc finger domain containing 1	1.63E-03	NM_026187
1031	Rps4y2	ribosomal protein S4, Y-linked 2	1.63E-03	NR_003634 /// XR_035148 /// XR_035151
1032	Bcl2l1	BCL2-like 1	1.64E-03	NM_009743
1033	Tpm3	tropomyosin 3, gamma	1.64E-03	NM_022314
1034	Tm2d1	TM2 domain containing 1	1.65E-03	NM_053157
1035	Dnajc1	DnaJ (Hsp40) homolog, subfamily C, member 1	1.65E-03	NM_007869
1036	Abhd6	abhydrolase domain containing 6	1.66E-03	NM_025341
1037	Zbp1	Z-DNA binding protein 1	1.66E-03	NM_001139519 /// NM_021394
1038	Ddx42	DEAD (Asp-Glu-Ala-Asp) box polypeptide 42	1.66E-03	NM_028074
1039	Zfx	zinc finger protein X-linked	1.66E-03	NM_001044386 /// NM_011768
1040	Its1	intersectin 1 (SH3 domain protein 1A)	1.66E-03	NM_001110275 /// NM_001110276 /// NM_010587
1041	Ehbp111	EH domain binding protein 1-like 1	1.67E-03	NM_001114595 /// NM_001114596 /// NM_001114597 /// NM_053252
1042	D2Erttd391e	DNA segment, Chr 2, ERATO Doi 391, expressed	1.68E-03	NM_145528
1043	Zfp444	zinc finger protein 444	1.68E-03	NM_001146024 /// NM_028316
1044	Ncaph	non-SMC condensin I complex, subunit H	1.68E-03	NM_144818
1045	Sbno1	sno, strawberry notch homolog 1 (<i>Drosophila</i>)	1.68E-03	NM_001081203
1046	Plprm	protein tyrosine phosphatase, receptor type, M	1.69E-03	NM_008984
1047	Acp1	acid phosphatase 1, soluble	1.69E-03	NM_001110239 /// NM_021330
1048	Serf1	small EDRK-rich factor 1	1.69E-03	NM_011353
1049	Adam15	a disintegrin and metallopeptidase domain 15 (metargidin)	1.70E-03	NM_001037722 /// NM_009614
1050	Dna2	DNA replication helicase 2 homolog (yeast)	1.70E-03	NM_177372
1051	Cd93	CD93 antigen	1.70E-03	NM_010740
1052	Unc45a	Unc-45 homolog A (<i>C. elegans</i>)	1.71E-03	NM_133952
1053	Serpinf1	serine (or cysteine) peptidase inhibitor, clade F, member 1	1.71E-03	NM_011340
1054	Map2k7	mitogen-activated protein kinase kinase 7	1.71E-03	NM_001042557 /// NM_001164172 /// NM_011944
1055	Maea	macrophage erythroblast attacher	1.71E-03	NM_021500

1056	Ccnd2	cyclin D2	1.71E-03	NM_009829
1057	Fzd8	frizzled homolog 8 (Drosophila)	1.71E-03	NM_008058
1058	Itga9	integrin alpha 9	1.73E-03	NM_001113514 /// NM_133721
1059	Ccl11	chemokine (C-C motif) ligand 11	1.73E-03	NM_011330
1060	---	---	1.73E-03	---
1061	Grb2	growth factor receptor bound protein 2	1.73E-03	NM_008163
1062	Gpr19	G protein-coupled receptor 19	1.75E-03	NM_008157
1063	Kdm6a	4lysine (K)-specific demethylase 6A	1.75E-03	NM_009483
1064	Tmco4	transmembrane and coiled-coil domains 4	1.77E-03	NM_029857
1065	Sh3glb2	SH3-domain GRB2-like endophilin B2	1.77E-03	NM_139302
1066	Kitl	kit ligand	1.77E-03	NM_013598
1067	Pptc7	PTC7 protein phosphatase homolog (S. cerevisiae)	1.77E-03	NM_177242
1068	Arhgap6	Rho GTPase activating protein 6	1.78E-03	NM_009707 /// NM_178754
1069	Smc4	structural maintenance of chromosomes 4	1.79E-03	NM_133786
1070	Tex10	testis expressed gene 10	1.79E-03	NM_172304
1071	Cd80	CD80 antigen	1.80E-03	NM_009855
1072	Tiparp	TCDD-inducible poly(ADP-ribose) polymerase	1.81E-03	NM_178892
1073	Mettl6	methyltransferase like 6	1.82E-03	NM_025907
1074	Mta3	metastasis associated 3	1.82E-03	NM_054082
1075	Seh1l	SEH1-like (S. cerevisiae)	1.82E-03	NM_001039088 /// NM_028112
1076	Fkbp9	FK506 binding protein 9	1.83E-03	NM_012056
1077	Ereg	epiregulin	1.83E-03	NM_007950
1078	Smc6	structural maintenance of chromosomes 6	1.83E-03	NM_025695
1079	Sash3	SAM and SH3 domain containing 3	1.83E-03	NM_028773
1080	Slc6a8	solute carrier family 6 (neurotransmitter transporter, creatine), member 8	1.84E-03	NM_001142809 /// NM_001142810 /// NM_133987
1081	O610007P08RIK	RIKEN cDNA O610007P08 gene	1.84E-03	NM_001013608 /// NM_023507
1082	Spint2	serine protease inhibitor, Kunitz type 2	1.84E-03	NM_001082548 /// NM_011464
1083	Ptprk	protein tyrosine phosphatase, receptor type, K	1.84E-03	NM_008983
1084	Cyp4b1	cytochrome P450, family 4, subfamily b, polypeptide 1	1.84E-03	NM_007823
1085	Luc7l2	LUC7-like 2 (S. cerevisiae)	1.85E-03	NM_138680
1086	Dpysl3	dihydropyrimidinase-like 3	1.85E-03	NM_001136086 /// NM_009468
1087	Arsa	arylsulfatase A	1.85E-03	NM_009713
1088	Ttc1	tetratricopeptide repeat domain 1	1.87E-03	NM_133795
1089	Papss2	3'-phosphoadenosine 5'-phosphosulfate synthase 2	1.87E-03	NM_011864
1090	Sh2d1b1	SH2 domain protein 1B1	1.88E-03	NM_012009
1091	Abcc5	ATP-binding cassette, sub-family C (CFTR/MRP), member 5	1.89E-03	NM_013790 /// NM_176839
1092	Rgs17	regulator of G-protein signaling 17	1.89E-03	NM_001161822 /// NM_019958
1093	Otub1	OTU domain, ubiquitin aldehyde binding 1	1.89E-03	NM_134150
1094	Rbm25	RNA binding motif protein 25	1.89E-03	NM_025930 /// NM_027349
1095	Timm17b	translocase of inner mitochondrial membrane 17b	1.90E-03	NM_011591
1096	Exosc5	exosome component 5	1.92E-03	NM_138586
1097	Xrcc5	X-ray repair complementing defective repair in Chinese hamster cells 5	1.92E-03	NM_009533
1098	Cspp1	centrosome and spindle pole associated protein 1	1.94E-03	NM_026493
1099	Malat1	metastasis associated lung adenocarcinoma transcript 1 (non-coding RNA)	1.95E-03	NR_002847
1100	Myst4	MYST histone acetyltransferase monocytic leukemia 4	1.95E-03	NM_017479
1101	Pplg	peptidyl-prolyl isomerase G (cyclophilin G)	1.95E-03	NM_001081086

1102	2610030H06Rik	RIKEN cDNA 2610030H06 gene	1.96E-03	NM_001081356
1103	Nab2	Ngfi-A binding protein 2	1.97E-03	NM_001122895 /// NM_008668
1104	Suv420h1	suppressor of variegation 4-20 homolog 1 (Drosophila)	1.97E-03	NM_144871
1105	Dock1	dedicator of cytokinesis 1	1.98E-03	NM_001033420
1106	Kpna4	karyopherin (importin) alpha 4	1.98E-03	NM_008467
1107	Smarca5	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subf	1.98E-03	NM_053124
1108	Fas	Fas (TNF receptor superfamily member 6)	1.98E-03	NM_001146708 /// NM_007987
1109	1810063B05Rik	RIKEN cDNA 1810063B05 gene	1.99E-03	NM_174987
1110	Asl	argininosuccinate lyase	1.99E-03	NM_133768
1111	Trmt1	TRM1 tRNA methyltransferase 1 homolog (S. cerevisiae)	1.99E-03	NM_001164559 /// NM_001164560 /// NM_198020
1112	Serinc1	serine incorporator 1	1.99E-03	NM_019760
1113	Scrn2	secernin 2	1.99E-03	NM_146027
1114	Cd200r1	CD200 receptor 1	2.00E-03	NM_021325
1115	Irs1	insulin receptor substrate 1	2.01E-03	NM_010570
1116	Mbtd1	mbt domain containing 1	2.01E-03	NM_134012
1117	Secisbp2l	SECIS binding protein 2-like	2.01E-03	NM_177608
1118	Elp4	elongation protein 4 homolog (S. cerevisiae)	2.01E-03	NM_023876
1119	Rabepk	Rab9 effector protein with kelch motifs	2.01E-03	NM_145522
1120	Ssb	Sjogren syndrome antigen B	2.02E-03	NM_001110145 /// NM_009278
1121	Atg5	autophagy-related 5 (yeast)	2.02E-03	NM_053069
1122	Orc4l	origin recognition complex, subunit 4-like (S. cerevisiae)	2.02E-03	NM_011958
1123	Cfh /// LOC100048018	complement component factor h /// similar to complement component factor H	2.03E-03	NM_009888 /// XM_001479650
1124	Fam160b1	family with sequence similarity 160, member B1	2.03E-03	NM_145505
1125	Gucy2e	guanylate cyclase 2e	2.03E-03	NM_008192
1126	Atp5s	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit s	2.04E-03	NM_026536
1127	Scy1l	SCY1-like 1 (S. cerevisiae)	2.04E-03	NM_023912
1128	Extl2	exostosins (multiple)-like 2	2.04E-03	NM_001163514 /// NM_001163515 /// NM_021388
1129	Aldoc	aldolase C, fructose-bisphosphate	2.05E-03	NM_009657
1130	Pmvk	phosphomevalonate kinase	2.05E-03	NM_026784 /// NM_027348
1131	A930001N09Rik	RIKEN cDNA A930001N09 gene	2.06E-03	NM_029870
1132	Grina	glutamate receptor, ionotropic, N-methyl D-aspartate-associated protein 1 (gluta	2.06E-03	NM_023168
1133	Tiparp	TCDD-inducible poly(ADP-ribose) polymerase	2.07E-03	NM_178892
1134	Scara3	scavenger receptor class A, member 3	2.07E-03	NM_172604
1135	Mlycd	malonyl-CoA decarboxylase	2.08E-03	NM_019966
1136	Cand1	cullin associated and neddylation disassociated 1	2.08E-03	NM_027994 /// XM_125901 /// XM_904108
1137	Tpcn2	two pore segment channel 2	2.08E-03	NM_146206
1138	Ccdc77	coiled-coil domain containing 77	2.08E-03	NM_026028
1139	Ihh	Indian hedgehog	2.08E-03	NM_010544
1140	Cd36	CD36 antigen	2.08E-03	NM_001159555 /// NM_001159556 /// NM_001159557 /// NM_001159558
1141	Eprs	glutamyl-prolyl-tRNA synthetase	2.09E-03	NM_029735
1142	Atoh8	atonal homolog 8 (Drosophila)	2.09E-03	NM_153778
1143	Bod1l	bioorientation of chromosomes in cell division 1-like	2.10E-03	NM_001081422
1144	Acs1l	acyl-CoA synthetase long-chain family member 1	2.11E-03	NM_007981
1145	Dcun1d1	DCN1, defective in cullin neddylation 1, domain containing 1 (S. cerevisiae)	2.11E-03	NM_033623
1146	Pnn	pinin	2.12E-03	NM_008891
1147	Bxdc5	brix domain containing 5	2.13E-03	NM_027332 /// NM_027371

1148	Solh	small optic lobes homolog (Drosophila)	2.13E-03	NM_015830
1149	Cp	ceruloplasmin	2.14E-03	NM_001042611 /// NM_007752
1150	Arid1a	AT rich interactive domain 1A (SWI-like)	2.14E-03	NM_001080819
1151	Rlf	rearranged L-myc fusion sequence	2.14E-03	NM_001081013
1152	Trim62	tripartite motif-containing 62	2.15E-03	NM_178110
1153	Camkk2	calcium/calmodulin-dependent protein kinase kinase 2, beta	2.16E-03	NM_145358
1154	Nov	nephroblastoma overexpressed gene	2.16E-03	NM_010930
1155	Ippk	inositol 1,3,4,5,6-pentakisphosphate 2-kinase	2.17E-03	NM_199056
1156	Stk19	serine/threonine kinase 19	2.17E-03	NM_019442
1157	Skp2	S-phase kinase-associated protein 2 (p45)	2.17E-03	NM_013787 /// NM_145468
1158	2010111101RIK	RIKEN cDNA 2010111101 gene	2.18E-03	NM_028079
1159	Eomes	eomesodermin homolog (Xenopus laevis)	2.18E-03	NM_010136
1160	Spon2	spondin 2, extracellular matrix protein	2.19E-03	NM_133903
1161	D9Erttd306e	DNA segment, Chr 9, ERATO Doi 306, expressed	2.20E-03	---
1162	Apcdd1	adenomatosis polyposis coli down-regulated 1	2.20E-03	NM_133237
1163	Pip5K1b	phosphatidylinositol-4-phosphate 5-kinase, type 1 beta	2.20E-03	NM_008846
1164	Pias1	protein inhibitor of activated STAT 1	2.20E-03	NM_019663
1165	Me2	malic enzyme 2, NAD(+)-dependent, mitochondrial	2.20E-03	NM_145494
1166	Ccnh	cyclin H	2.21E-03	NM_023243
1167	Zfp622	zinc finger protein 622	2.21E-03	NM_144523
1168	Mfhas1	malignant fibrous histiocytoma amplified sequence 1	2.21E-03	NM_001081279
1169	Meis1	Meis homeobox 1	2.21E-03	NM_010789
1170	Pros1	protein S (alpha)	2.22E-03	NM_011173
1171	Phf23	PHD finger protein 23	2.24E-03	NM_030064
1172	Ptges	prostaglandin E synthase	2.24E-03	NM_022415
1173	Vangl1	vang-like 1 (van gogh, Drosophila)	2.24E-03	NM_177545
1174	Fabp4	fatty acid binding protein 4, adipocyte	2.24E-03	NM_024406
1175	Edf1	endothelial differentiation-related factor 1	2.25E-03	NM_021519
1176	Sparcl1	SPARC-like 1	2.26E-03	NM_010097
1177	Vps41	vacuolar protein sorting 41 (yeast)	2.26E-03	NM_172120
1178	LOC100046775 /// Slc35a1	similar to CMP-sialic acid transporter /// solute carrier family 35 (CMP-sialic	2.26E-03	NM_011895 /// XM_001476786
1179	Clstn1	calyntenin 1	2.26E-03	NM_023051
1180	Wipi1	WD repeat domain, phosphoinositide interacting 1	2.27E-03	NM_145940
1181	Pitpnc1	phosphatidylinositol transfer protein, cytoplasmic 1	2.27E-03	NM_145823
1182	Nav2	neuron navigator 2	2.27E-03	NM_001111016 /// NM_175272
1183	Sfmbt2	Scm-like with four mbt domains 2	2.27E-03	NM_177386
1184	Nfkbie	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, ep	2.28E-03	NM_008690
1185	Ypel5	yippee-like 5 (Drosophila)	2.28E-03	NM_027166
1186	Kif5b	kinesin family member 5B	2.28E-03	NM_008448
1187	Faah	fatty acid amide hydrolase	2.28E-03	NM_010173
1188	Slain1	SLAIN motif family, member 1	2.30E-03	NM_198014
1189	Igfbp5	insulin-like growth factor binding protein 5	2.30E-03	NM_010518
1190	Atp6v1e1	ATPase, H+ transporting, lysosomal V1 subunit E1	2.30E-03	NM_007510
1191	Arl6ip6	ADP-ribosylation factor-like 6 interacting protein 6	2.31E-03	NM_022989
1192	Ccnb1	cyclin B1	2.31E-03	NM_172301
1193	Tmlhe	trimethyllysine hydroxylase, epsilon	2.32E-03	NM_138758

1194	Gm6563 /// Sarnp	SAP domain containing ribonucleoprotein pseudogene /// SAP domain containing rib	2.32E-03	NM_025364 /// XM_001478220 /// XM_001479601 /// XM_899946 /// X
1195	LOC677213	similar to U2AF homology motif (UHM) kinase 1	2.33E-03	XM_001001408
1196	Dhx36	DEAH (Asp-Glu-Ala-His) box polypeptide 36	2.34E-03	NM_028136
1197	Pitpnc1	phosphatidylinositol transfer protein, cytoplasmic 1	2.34E-03	NM_145823
1198	Hsp90aa1	heat shock protein 90, alpha (cytosolic), class A member 1	2.35E-03	NM_010480
1199	A230050P20Rik	RIKEN cDNA A230050P20 gene	2.35E-03	NM_175687
1200	1300018I05RIK	RIKEN cDNA 1300018I05 gene	2.35E-03	NM_028791
1201	Srr	serine racemase	2.35E-03	NM_001163311 /// NM_013761
1202	Rbp7	retinol binding protein 7, cellular	2.35E-03	NM_022020
1203	Eefsec	eukaryotic elongation factor, selenocysteine-tRNA-specific	2.36E-03	NM_023060
1204	Rock1	Rho-associated coiled-coil containing protein kinase 1	2.37E-03	NM_009071
1205	Mynn	myoneurin	2.37E-03	NM_030557
1206	Mlxip	MLX interacting protein	2.37E-03	NM_133917 /// NM_177582
1207	Dnajb2	DnaJ (Hsp40) homolog, subfamily B, member 2	2.37E-03	NM_001159883 /// NM_001159884 /// NM_001159885 /// NM_020266 /
1208	Akr1b10	aldo-keto reductase family 1, member B10 (aldose reductase)	2.37E-03	NM_172398
1209	Itgax	integrin alpha X	2.37E-03	NM_021334
1210	Dhx8	DEAH (Asp-Glu-Ala-His) box polypeptide 8	2.38E-03	NM_144831
1211	Egfr	epidermal growth factor receptor	2.38E-03	NM_007912 /// NM_207655
1212	Abhd8	abhydrolase domain containing 8	2.39E-03	NM_022419
1213	Fam117a	family with sequence similarity 117, memberA	2.40E-03	NM_172543
1214	Tk2	thymidine kinase 2, mitochondrial	2.40E-03	NM_021028
1215	Tbc1d13	TBC1 domain family, member 13	2.40E-03	NM_146252
1216	Stard3	START domain containing 3	2.40E-03	NM_021547
1217	Rraga	Ras-related GTP binding A	2.42E-03	NM_178376
1218	Ube2l	ubiquitin-conjugating enzyme E2l	2.43E-03	NM_011665
1219	Ergic3	ERGIC and golgi 3	2.43E-03	NM_025516
1220	Trip12	thyroid hormone receptor interactor 12	2.43E-03	NM_133975
1221	Plagl1	pleiomorphic adenoma gene-like 1	2.44E-03	NM_009538
1222	Csnk1g2	casein kinase 1, gamma 2	2.44E-03	NM_001159591 /// NM_134002
1223	Usp53	ubiquitin specific peptidase 53	2.45E-03	NM_133857
1224	Cask	calcium/calmodulin-dependent serine protein kinase (MAGUK family)	2.45E-03	NM_009806
1225	Stard10	START domain containing 10	2.45E-03	NM_019990
1226	2810453I06Rik	RIKEN cDNA 2810453I06 gene	2.46E-03	NM_026050 /// NM_133703
1227	Fam174a	family with sequence similarity 174, member A	2.47E-03	NM_026321
1228	Sptlc1	serine palmitoyltransferase, long chain base subunit 1	2.47E-03	NM_009269
1229	Zbtb25	zinc finger and BTB domain containing 25	2.47E-03	NM_028356
1230	Zfp101	zinc finger protein 101	2.47E-03	NM_009542
1231	Adhfe1	alcohol dehydrogenase, iron containing, 1	2.47E-03	NM_175236 /// NR_027664
1232	Igfbp7	insulin-like growth factor binding protein 7	2.48E-03	NM_001159518 /// NM_008048
1233	Ppat	phosphoribosyl pyrophosphate amidotransferase	2.48E-03	NM_172146 /// XM_001002879 /// XM_001002886 /// XM_896000 /// X
1234	Ankzf1	ankyrin repeat and zinc finger domain containing 1	2.49E-03	NM_026187
1235	Vegfb	vascular endothelial growth factor B	2.49E-03	NM_011697
1236	Pcolce	procollagen C-endopeptidase enhancer protein	2.50E-03	NM_008788
1237	Tnk2	tyrosine kinase, non-receptor, 2	2.50E-03	NM_001110147 /// NM_016788
1238	Tspan2	tetraspanin 2	2.51E-03	NM_027533
1239	Esrra	estrogen related receptor, alpha	2.51E-03	NM_007953

1240	Oplah	5-oxoprolinase (ATP-hydrolysing)	2.51E-03	NM_153122
1241	Wsb2	WD repeat and SOCS box-containing 2	2.51E-03	NM_021539
1242	Osbpl5	oxysterol binding protein-like 5	2.52E-03	NM_024289
1243	Tmem30a	transmembrane protein 30A	2.52E-03	NM_133718
1244	Fcgr4	Fc receptor, IgG, low affinity IV	2.53E-03	NM_144559
1245	Pqlc1	PQ loop repeat containing 1	2.53E-03	NM_001164420 /// NM_001164421 /// NM_001164422 /// NM_001164423
1246	Dnm1	dynamin 1	2.53E-03	NM_010065
1247	Elk4	ELK4, member of ETS oncogene family	2.54E-03	NM_007923
1248	Agl	amylase, 1,6-glycosidase, 4-alpha-glucanotransferase	2.55E-03	NM_001081326
1249	Efnb2	ephrin B2	2.55E-03	NM_010111
1250	Dnttip2	deoxynucleotidyltransferase, terminal, interacting protein 2	2.55E-03	NM_153806
1251	Pkig	protein kinase inhibitor, gamma	2.55E-03	NM_001039390 /// NM_001039391 /// NM_001164053 /// NM_001164054
1252	Tusc4	tumor suppressor candidate 4	2.57E-03	NM_018879
1253	Slc25a38	solute carrier family 25, member 38	2.57E-03	NM_144793
1254	Ppp6c	protein phosphatase 6, catalytic subunit	2.58E-03	NM_024209
1255	Zkscan3	zinc finger with KRAB and SCAN domains 3	2.58E-03	NM_001145778 /// NM_023685
1256	Mrpl54	mitochondrial ribosomal protein L54	2.59E-03	NM_025317
1257	Gsn	gelsolin	2.59E-03	NM_146120
1258	Gm2397	predicted gene 2397	2.60E-03	XM_001473420
1259	Klc4	kinesin light chain 4	2.60E-03	NM_029091
1260	Cp	ceruloplasmin	2.60E-03	NM_001042611 /// NM_007752
1261	Ino80	INO80 homolog (S. cerevisiae)	2.61E-03	NM_026574
1262	Tmem140	transmembrane protein 140	2.61E-03	NM_197986
1263	Nid1	nidogen 1	2.61E-03	NM_010917
1264	Hdhd3	haloacid dehalogenase-like hydrolase domain containing 3	2.61E-03	NM_024257
1265	Mastl	microtubule associated serine/threonine kinase-like	2.62E-03	NM_025979
1266	Gramd3	GRAM domain containing 3	2.62E-03	NM_026240
1267	Wwtr1	WW domain containing transcription regulator 1	2.62E-03	NM_133784
1268	Ncapg	non-SMC condensin I complex, subunit G	2.63E-03	NM_019438 /// XM_485604
1269	Nploc4	nuclear protein localization 4 homolog (S. cerevisiae)	2.64E-03	NM_199469
1270	Myo1b	myosin IB	2.65E-03	NM_001161817 /// NM_010863
1271	Msh5	mutS homolog 5 (E. coli)	2.65E-03	NM_001146215 /// NM_013600
1272	Usp1	ubiquitin specific peptidase 1	2.65E-03	NM_146144
1273	Atp6v0b	ATPase, H+ transporting, lysosomal V0 subunit B	2.65E-03	NM_033617
1274	9430016H08Rik	RIKEN cDNA 9430016H08 gene	2.65E-03	NM_001081181 /// XM_001478981 /// XM_907464
1275	Ext2	exostoses (multiple) 2	2.66E-03	NM_010163
1276	Ccbl2	cysteine conjugate-beta lyase 2	2.66E-03	NM_173763
1277	Cyp4f18 /// LOC100044433	cytochrome P450, family 4, subfamily f, polypeptide 18 /// similar to cytochrome	2.66E-03	NM_024444 /// XM_001472253
1278	Zfp292	zinc finger protein 292	2.67E-03	NM_013889 /// XM_620009 /// XM_909747
1279	Ttc30a1	tetratricopeptide repeat domain 30A1	2.67E-03	NM_030188
1280	Ergic3	ERGIC and golgi 3	2.68E-03	NM_025516
1281	Slc38a10	solute carrier family 38, member 10	2.68E-03	NM_024249
1282	Tapbp1	TAP binding protein-like	2.68E-03	NM_145391
1283	Errfi1	ERBB receptor feedback inhibitor 1	2.71E-03	NM_133753
1284	Tax1bp1	Tax1 (human T-cell leukemia virus type I) binding protein 1	2.72E-03	NM_025816
1285	Ttc3	tetratricopeptide repeat domain 3	2.72E-03	NM_009441

1286	Cort	cortistatin	2.73E-03	NM_007745
1287	Cldn7	claudin 7	2.73E-03	NM_016887
1288	Gm5560 /// Gm8429 /// Sl	predicted gene 5560 /// predicted gene 8429 /// solute carrier family 25 (mitoch	2.73E-03	NM_001081233 /// NM_007451 /// XR_033177
1289	Mef2c	myocyte enhancer factor 2C	2.74E-03	NM_025282
1290	Ddx6	DEAD (Asp-Glu-Ala-Asp) box polypeptide 6	2.75E-03	NM_001110826 /// NM_007841 /// NM_181324
1291	Cxcl1	chemokine (C-X-C motif) ligand 1	2.75E-03	NM_008176
1292	Scrn3	secernin 3	2.76E-03	NM_029022
1293	Tmem199	transmembrane protein 199	2.76E-03	NM_199199
1294	Baiap2	brain-specific angiogenesis inhibitor 1-associated protein 2	2.76E-03	NM_001037754 /// NM_001037755 /// NM_130862
1295	Fam20b	family with sequence similarity 20, member B	2.76E-03	NM_145413
1296	Klf4	Kruppel-like factor 4 (gut)	2.76E-03	NM_010637
1297	Coq5	coenzyme Q5 homolog, methyltransferase (yeast)	2.77E-03	NM_026504
1298	Csgalnact2	chondroitin sulfate N-acetylgalactosaminyltransferase 2	2.79E-03	NM_030165
1299	Ywhab	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta po	2.80E-03	NM_018753
1300	9430015G10Rik	RIKEN cDNA 9430015G10 gene	2.80E-03	NM_145557 /// NM_177205
1301	1810048J11Rik	RIKEN cDNA 1810048J11 gene	2.80E-03	NM_026327
1302	5430417L22Rik	RIKEN cDNA 5430417L22 gene	2.81E-03	---
1303	Cnpy3	canopy 3 homolog (zebrafish)	2.82E-03	NM_028065
1304	Jarid2	jumonji, AT rich interactive domain 2	2.83E-03	NM_021878
1305	Pum2	pumilio 2 (Drosophila)	2.83E-03	NM_001160219 /// NM_001160220 /// NM_001160221 /// NM_0011602
1306	Capn1	calpain 1	2.83E-03	NM_001110504 /// NM_007600
1307	Psmf1	proteasome (prosome, macropain) inhibitor subunit 1	2.84E-03	NM_144889 /// NM_212446
1308	Aspn	asporin	2.84E-03	NM_025711
1309	Wdr13	WD repeat domain 13	2.85E-03	NM_026137
1310	Stk16	serine/threonine kinase 16	2.86E-03	NM_011494
1311	Slc12a8	solute carrier family 12 (potassium/chloride transporters), member 8	2.86E-03	NM_001083902 /// NM_134251
1312	Sin3a	transcriptional regulator, SIN3A (yeast)	2.86E-03	NM_001110350 /// NM_001110351 /// NM_011378
1313	Serhl	serine hydrolase-like	2.86E-03	NM_023475
1314	Sf3b2	splicing factor 3b, subunit 2	2.86E-03	NM_030109
1315	Cp	ceruloplasmin	2.87E-03	NM_001042611 /// NM_007752
1316	Il1f9	interleukin 1 family, member 9	2.88E-03	NM_153511
1317	Tnrc6a	trinucleotide repeat containing 6a	2.88E-03	NM_144925
1318	Pou2f1	POU domain, class 2, transcription factor 1	2.89E-03	NM_011137 /// NM_198932 /// NM_198933 /// NM_198934
1319	Fbxo6	F-box protein 6	2.89E-03	NM_001163704 /// NM_001163705 /// NM_001163706 /// NM_00116370
1320	Cstb	cystatin B	2.90E-03	NM_007793
1321	Arrdc1	arrestin domain containing 1	2.90E-03	NM_001162485 /// NM_178408 /// NR_027876

Table S6. Differentially expressed genes in Study 2 PC samples revealed by BETR

No.	Gene Symbol	Gene Title	RefSeq ID
2	1810044D09Rik	RIKEN cDNA 1810044D09 gene	---
3	Cd163	CD163 antigen	NM_053094
4	Clcn5	chloride channel 5	NM_016691
5	Eif2ak3	eukaryotic translation initiation factor 2 alpha kinase 3	NM_010121
6	Enah	enabled homolog (Drosophila)	NM_001083120 /// NM_001083121 /// NM_008680 /// NM_010135
7	Entpd1	ectonucleoside triphosphate diphosphohydrolase 1	NM_009848
8	Ero1l	ERO1-like (S. cerevisiae)	NM_015774
9	Extl2	exostosin (multiple)-like 2	NM_001163514 /// NM_001163515 /// NM_021388
10	Gaa	glucosidase, alpha, acid	NM_001159324 /// NM_008064
11	Gdap2	ganglioside-induced differentiation-associated-protein 2	NM_010269
12	Gpnmb	glycoprotein (transmembrane) nmb	NM_053110
13	Klra17	killer cell lectin-like receptor, subfamily A, member 17	NM_133203
14	Mela	melanoma antigen	NM_008581
15	Naglu	alpha-N-acetylglucosaminidase (Sanfilippo disease IIIB)	NM_013792
16	Nbea	neurobeachin	NM_030595
17	Nedd4	neural precursor cell expressed, developmentally down-regulated 4	NM_010890
18	Osbpl1a	oxysterol binding protein-like 1A	NM_207530
19	Rsrc2	arginine/serine-rich coiled-coil 2	NM_001005523 /// NM_001005525 /// NM_025438
20	Sel1l	sel-1 suppressor of lin-12-like (C. elegans)	NM_001039089 /// NM_011344
21	Serbp1	serpine1 mRNA binding protein 1	NM_001113564 /// NM_001113565 /// NM_001113566 /// NM_025814
22	Serpini1	serine (or cysteine) peptidase inhibitor, clade I, member 1	NM_009250
23	Smc6	structural maintenance of chromosomes 6	NM_025695
24	Syng1	synaptogyrin 1	NM_009303 /// NM_207708
25	Tanc1	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1	NM_198294
26	Tshz1	teashirt zinc finger family member 1	NM_001081300
27	Tubb2b	tubulin, beta 2B	NM_023716
28	Usp14	ubiquitin specific peptidase 14	NM_001038589 /// NM_021522

Table S7. Differentially expressed genes in Study 2 OG samples revealed by ANOVA

No.	Gene Symbol	Gene Title	p-value	RefSeq ID
1	Mela	melanoma antigen	4.53E-07	NM_008581
2	Mmp23	matrix metalloproteinase 23	5.02E-07	NM_011985
3	Mela	melanoma antigen	5.93E-07	NM_008581
4	Mapk8	mitogen-activated protein kinase 8	8.23E-07	NM_016700
5	Cldn6	claudin 6	1.56E-06	NM_018777
6	Klra17	killer cell lectin-like receptor, subfamily A, member 17	2.41E-06	NM_133203
7	Cbs	cystathionine beta-synthase	2.75E-06	NM_144855 /// NM_178224
8	Rabggta	Rab geranylgeranyl transferase, a subunit	2.80E-06	NM_019519
9	Ppic	peptidylprolyl isomerase C	3.97E-06	NM_008908
10	6720475J19Rik	RIKEN cDNA 6720475J19 gene	4.16E-06	XM_001474896 /// XM_001481296
11	Arid4b	AT rich interactive domain 4B (RBP1-like)	4.48E-06	NM_194262 /// NM_198122
12	Extl2	exostosin (multiple)-like 2	4.61E-06	NM_001163514 /// NM_001163515 /// NM_021388
13	Slc12a8	solute carrier family 12 (potassium/chloride transporters), member 8	5.58E-06	NM_001083902 /// NM_134251
14	Tax1bp3	Tax1 (human T-cell leukemia virus type 1) binding protein 3	8.62E-06	NM_029564
15	Mmp23	matrix metalloproteinase 23	1.03E-05	NM_011985
16	Mela	Melanoma antigen	1.09E-05	NM_008581
17	Stmn1	stathmin 1	1.28E-05	NM_019641
18	Entpd1	ectonucleoside triphosphate diphosphohydrolase 1	1.30E-05	NM_009848
19	Cpeb3	cytoplasmic polyadenylation element binding protein 3	1.32E-05	NM_198300
20	Ccl24	chemokine (C-C motif) ligand 24	1.56E-05	NM_019577
21	Dclre1b	DNA cross-link repair 1B, PSO2 homolog (S. cerevisiae)	1.61E-05	NM_001025312 /// NM_133865
22	Mest	mesoderm specific transcript	1.62E-05	NM_008590
23	Tspan1	tetraspanin 1	1.78E-05	NM_133681
24	1300018I05Rik	RIKEN cDNA 1300018I05 gene	1.83E-05	NM_028791
25	Copg2as2	coatamer protein complex, subunit gamma 2, antisense 2	1.88E-05	NR_002845 /// XM_001471930
26	Opn4	opsin 4 (melanopsin)	1.99E-05	NM_001128599 /// NM_013887
27	Soat2	sterol O-acyltransferase 2	2.30E-05	NM_146064
28	Tctn3	tectonic family member 3	2.50E-05	NM_026260
29	Trim24	tripartite motif-containing 24	2.60E-05	NM_145076
30	Aif1l	allograft inflammatory factor 1-like	2.64E-05	NM_145144
31	Bmi1	Bmi1 polycomb ring finger oncogene	3.10E-05	NM_007552
32	Enpp1	ectonucleotide pyrophosphatase/phosphodiesterase 1	3.80E-05	NM_008813
33	Rrm1	ribonucleotide reductase M1	3.95E-05	NM_009103
34	Chrnd	cholinergic receptor, nicotinic, delta polypeptide	4.10E-05	NM_021600
35	Prpf19	PRP19/PSO4 pre-mRNA processing factor 19 homolog (S. cerevisiae)	4.33E-05	NM_134129
36	V1rb2	vomerolateral 1, receptor B2	4.41E-05	NM_011911
37	Hmmr	hyaluronan mediated motility receptor (RHAMM)	4.55E-05	NM_013552
38	Cxcl1	chemokine (C-X-C motif) ligand 1	4.63E-05	NM_008176
39	Spp1	secreted phosphoprotein 1	4.98E-05	NM_009263
40	Copg2as2	coatamer protein complex, subunit gamma 2, antisense 2	5.01E-05	NR_002845 /// XM_001471930
41	Asf1b	ASF1 anti-silencing function 1 homolog B (S. cerevisiae)	5.27E-05	NM_024184
42	Apf	apataxin and PNKP like factor	5.65E-05	NM_024251
43	C1galt1	core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase	5.65E-05	NM_052993

44	Cited2	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain,	6.09E-05	NM_010828
45	Tspan13	tetraspanin 13	6.29E-05	NM_025359
46	Gfod2	glucose-fructose oxidoreductase domain containing 2	6.33E-05	NM_027469
47	Rpl13 /// Tax1bp3	ribosomal protein L13 /// Tax1 (human T-cell leukemia virus type 1) binding prot	6.34E-05	NM_016738 /// NM_029564
48	6720475J19RIK	RIKEN cDNA 6720475J19 gene	6.38E-05	XM_001474896 /// XM_001481296
49	Acaa2	acetyl-Coenzyme A acyltransferase 2 (mitochondrial 3-oxoacyl-Coenzyme A thiolase	6.40E-05	NM_177470
50	Edem1	ER degradation enhancer, mannosidase alpha-like 1	6.77E-05	NM_138677
51	Prr13	proline rich 13	7.28E-05	NM_025385
52	Xrn2	5'-3' exoribonuclease 2	7.40E-05	NM_011917
53	Igh-6	immunoglobulin heavy chain 6 (heavy chain of IgM)	7.59E-05	---
54	BC004004	cDNA sequence BC004004	7.89E-05	NM_030561
55	Pon3	paraoxonase 3	8.00E-05	NM_173006
56	Hipk1	homeodomain interacting protein kinase 1	8.14E-05	NM_010432
57	Adora2b /// LOC10004523	adenosine A2b receptor /// similar to Adenosine A2b receptor	8.50E-05	NM_007413 /// XM_001473907
58	Slc18a1	solute carrier family 18 (vesicular monoamine), member 1	9.00E-05	NM_153054
59	Brc1	breast cancer 1	9.19E-05	NM_009764
60	Dab1	disabled homolog 1 (Drosophila)	9.44E-05	NM_010014 /// NM_177259
61	Nuf2	NUF2, NDC80 kinetochore complex component, homolog (S. cerevisiae)	9.52E-05	NM_023284
62	Jam2	junction adhesion molecule 2	9.68E-05	NM_023844
63	Prpf19	PRP19/PSO4 pre-mRNA processing factor 19 homolog (S. cerevisiae)	9.79E-05	NM_134129
64	Farsb	phenylalanyl-tRNA synthetase, beta subunit	9.91E-05	NM_011811
65	Lpin2	lipin 2	1.04E-04	NM_022882
66	Blzf1	basic leucine zipper nuclear factor 1	1.04E-04	NM_001160208 /// NM_001160209 /// NM_025505
67	Cbr2	carbonyl reductase 2	1.04E-04	NM_007621
68	Clec4d	C-type lectin domain family 4, member d	1.07E-04	NM_001163161 /// NM_010819
69	Ppp1r3c	protein phosphatase 1, regulatory (inhibitor) subunit 3C	1.07E-04	NM_016854
70	Socs2	suppressor of cytokine signaling 2	1.07E-04	NM_007706
71	Leprotl1	leptin receptor overlapping transcript-like 1	1.08E-04	NM_026609
72	Igh-6	immunoglobulin heavy chain 6 (heavy chain of IgM)	1.08E-04	---
73	Btg3 /// Gm7334	B-cell translocation gene 3 /// B-cell translocation gene 3 pseudogene	1.12E-04	NM_009770 /// NR_002700
74	Ttc13	tetratricopeptide repeat domain 13	1.12E-04	NM_145607
75	Xrn2	5'-3' exoribonuclease 2	1.14E-04	NM_011917
76	Faah	fatty acid amide hydrolase	1.16E-04	NM_010173
77	Nusap1	nucleolar and spindle associated protein 1	1.18E-04	NM_001042652 /// NM_133851
78	---	---	1.21E-04	---
79	Lgals1	lectin, galactose binding, soluble 1	1.22E-04	NM_008495
80	Snord116	small nucleolar RNA, C/D box 116 cluster	1.23E-04	NR_002895
81	Ggta1	glycoprotein galactosyltransferase alpha 1, 3	1.23E-04	NM_001145821 /// NM_010283
82	Igk-V1	immunoglobulin kappa chain variable 1 (V1)	1.23E-04	---
83	Ccl2	chemokine (C-C motif) ligand 2	1.26E-04	NM_011333
84	Sepsecs	Sep (O-phosphoserine) tRNA:Sec (selenocysteine) tRNA synthase	1.32E-04	NM_172490
85	Ephx1	epoxide hydrolase 1, microsomal	1.33E-04	NM_010145
86	Amz2	archaealysin family metallopeptidase 2	1.44E-04	NM_025275
87	Mgea5	meningioma expressed antigen 5 (hyaluronidase)	1.51E-04	NM_023799
88	Socs2	suppressor of cytokine signaling 2	1.52E-04	NM_007706
89	Ralgps2	Ral GEF with PH domain and SH3 binding motif 2	1.58E-04	NM_001159965 /// NM_001159966 /// NM_001159967 /// NM_001159968

90	Rab34	RAB34, member of RAS oncogene family	1.66E-04	NM_001159482 /// NM_033475
91	Trim47	tripartite motif-containing 47	1.67E-04	NM_172570
92	Dna2	DNA replication helicase 2 homolog (yeast)	1.69E-04	NM_177372
93	Cebpd	CCAAT/enhancer binding protein (C/EBP), delta	1.77E-04	NM_007679
94	Limch1	LIM and calponin homology domains 1	1.77E-04	NM_001001980
95	Ypel3	yippee-like 3 (Drosophila)	1.80E-04	NM_025347 /// NM_026875
96	Cmah	cytidine monophospho-N-acetylneuraminic acid hydroxylase	1.85E-04	NM_001111110 /// NM_007717
97	Postn	periostin, osteoblast specific factor	1.89E-04	NM_015784
98	Ppp1r15b	protein phosphatase 1, regulatory (inhibitor) subunit 15b	1.92E-04	NM_133819
99	Rpgr /// Srpx	retinitis pigmentosa GTPase regulator /// sushi-repeat-containing protein	1.94E-04	NM_011285 /// NM_016911
100	Rpia	ribose 5-phosphate isomerase A	2.02E-04	NM_009075
101	Rad51	RAD51 homolog (S. cerevisiae)	2.05E-04	NM_011234
102	LOC100047238	similar to N-deacetylase/N-sulfotransferase 4	2.09E-04	XM_001477706
103	Esf1	ESF1, nucleolar pre-rRNA processing protein, homolog (S. cerevisiae)	2.15E-04	NM_001081090
104	Fkbp1a	FK506 binding protein 1a	2.15E-04	NM_008019
105	Rnase4	ribonuclease, RNase A family 4	2.21E-04	NM_021472 /// NM_201239
106	Nelf	nasal embryonic LHRH factor	2.21E-04	NM_001039386 /// NM_001039387 /// NM_020276
107	S100a16	S100 calcium binding protein A16	2.24E-04	NM_026416
108	Orc1l	origin recognition complex, subunit 1-like (S.cerevisiae)	2.29E-04	NM_001014425 /// NM_011015
109	---	---	2.32E-04	---
110	Gdap2	ganglioside-induced differentiation-associated-protein 2	2.34E-04	NM_010269
111	Sncg	synuclein, gamma	2.36E-04	NM_011430
112	Pnpo	pyridoxine 5'-phosphate oxidase	2.39E-04	NM_134021
113	Nup50	nucleoporin 50	2.42E-04	NM_016714
114	Edem2	ER degradation enhancer, mannosidase alpha-like 2	2.45E-04	NM_145537
115	Clca2	chloride channel calcium activated 2	2.46E-04	NM_030601
116	Nbea	neurobeachin	2.48E-04	NM_030595
117	Cdca5	cell division cycle associated 5	2.55E-04	NM_026410
118	Eml5	echinoderm microtubule associated protein like 5	2.60E-04	NM_001081191
119	Ddx52	DEAD (Asp-Glu-Ala-Asp) box polypeptide 52	2.60E-04	NM_030096
120	Glce	glucuronyl C5-epimerase	2.60E-04	NM_033320
121	Inhbb /// LOC100046802	inhibin beta-B /// similar to Inhbb protein	2.62E-04	NM_008381 /// XM_001476835
122	Tsc1	tuberous sclerosis 1	2.62E-04	NM_022887
123	Bub1	budding uninhibited by benzimidazoles 1 homolog (S. cerevisiae)	2.62E-04	NM_001113179 /// NM_009772
124	Tmpo	thymopoietin	2.62E-04	NM_001080129 /// NM_001080130 /// NM_001080131 /// NM_001080132
125	2010205A11Rik /// Gm10883	RIKEN cDNA 2010205A11 gene /// predicted gene 10883 /// predicted gene 1420 ///	2.62E-04	XM_001476664 /// XM_001476679 /// XM_001476703
126	Gamt	guanidinoacetate methyltransferase	2.64E-04	NM_010255
127	Pcdhb14	protocadherin beta 14	2.71E-04	NM_053139
128	Gstm1	glutathione S-transferase, mu 1	2.74E-04	NM_010358
129	Slamf9	SLAM family member 9	2.78E-04	NM_029612
130	Gstm2	glutathione S-transferase, mu 2	2.87E-04	NM_008183
131	Cstb	cystatin B	2.89E-04	NM_007793
132	Rab25	RAB25, member RAS oncogene family	2.89E-04	NM_016899
133	Anxa3	annexin A3	2.91E-04	NM_013470

Table S8. Differentially expressed genes in Study 2 OG samples revealed by ANOVA

No.	Gene Symbol	Gene Title	RefSeq ID
1	2810432L2RIK	RIKEN cDNA 2810432L12 gene	NM_025944
2	3632451O06RIK	RIKEN cDNA 3632451O06 gene	NM_026142
3	6720475J19RIK	RIKEN cDNA 6720475J19 gene	XM_001474896 /// XM_001481296
4	6720475J19RIK	RIKEN cDNA 6720475J19 gene	XM_001474896 /// XM_001481296
5	9130213B05RIK	RIKEN cDNA 9130213B05 gene	NM_145562
6	Abcc9	ATP-binding cassette, sub-family C (CFTR/MRP), member 9	NM_001044720 /// NM_011511 /// NM_021041 /// NM_021042
7	Acaa1a	acetyl-Coenzyme A acyltransferase 1A	NM_130864
8	Acaa1a /// Acaa1b	acetyl-Coenzyme A acyltransferase 1A /// acetyl-Coenzyme A acyltransferase 1B	NM_130864 /// NM_146230
9	Acaa2	acetyl-Coenzyme A acyltransferase 2 (mitochondrial 3-oxoacyl-Coenzyme A thiolase	NM_177470
10	Ak311 /// LOC100047616	adenylate kinase 3-like 1 /// similar to adenylate kinase 4	NM_009647 /// XM_001478522
11	Akap12	A kinase (PRKA) anchor protein (gravin) 12	NM_031185
12	Akap2	A kinase (PRKA) anchor protein 2	NM_001035532 /// NM_001035533 /// NM_009649
13	Aldoa	aldolase A, fructose-bisphosphate	NM_007438
14	Armxc1	armadillo repeat containing, X-linked 1	NM_030066
15	Aspn	asporin	NM_025711
16	Aspn	asporin	NM_025711
17	Atf5	activating transcription factor 5	NM_030693
18	Bmi1	Bmi1 polycomb ring finger oncogene	NM_007552
19	Bmi1	Bmi1 polycomb ring finger oncogene	NM_007552
20	C1galt1	core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase	NM_052993
21	Car8	carbonic anhydrase 8	NM_007592
22	Cav2	caveolin 2	NM_016900
23	Cbs	cystathionine beta-synthase	NM_144855 /// NM_178224
24	Ccdc22	coiled-coil domain containing 22	NM_138603
25	Ccl24	chemokine (C-C motif) ligand 24	NM_019577
26	Cd151	CD151 antigen	NM_001111049 /// NM_001111050 /// NM_009842
27	Cebpd	CCAAT/enhancer binding protein (C/EBP), delta	NM_007679
28	Chrn1	cholinergic receptor, nicotinic, beta polypeptide 1 (muscle)	NM_009601
29	Chrnd	cholinergic receptor, nicotinic, delta polypeptide	NM_021600
30	Cited2	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain,	NM_010828
31	Ckap2	cytoskeleton associated protein 2	NM_001004140
32	Clca2	chloride channel calcium activated 2	NM_030601
33	Cldn6	claudin 6	NM_018777
34	Copg2as2	coatamer protein complex, subunit gamma 2, antisense 2	NR_002845 /// XM_001471930
35	Copg2as2	coatamer protein complex, subunit gamma 2, antisense 2	NR_002845 /// XM_001471930
36	Cpeb3	cytoplasmic polyadenylation element binding protein 3	NM_198300
37	Cryab	crystallin, alpha B	NM_009964
38	Cspg4	chondroitin sulfate proteoglycan 4	NM_139001
39	Cwc22	CWC22 spliceosome-associated protein homolog (S. cerevisiae)	NM_030560
40	Cxcl1	chemokine (C-X-C motif) ligand 1	NM_008176
41	Cyb5r3	cytochrome b5 reductase 3	NM_029787
42	Dclre1b	DNA cross-link repair 1B, PSO2 homolog (S. cerevisiae)	NM_001025312 /// NM_133865
43	Ddr2	discoidin domain receptor family, member 2	NM_022563

44	Dkk2	dickkopf homolog 2 (Xenopus laevis)	NM_020265
45	Edem1	ER degradation enhancer, mannosidase alpha-like 1	NM_138677
46	Emp2	epithelial membrane protein 2	NM_007929
47	Enpp1	ectonucleotide pyrophosphatase/phosphodiesterase 1	NM_008813
48	Entpd1	ectonucleoside triphosphate diphosphohydrolase 1	NM_009848
49	Evi5	ecotropic viral integration site 5	NM_007964
50	Extl2	exostoses (multiple)-like 2	NM_001163514 /// NM_001163515 /// NM_021388
51	F3	coagulation factor III	NM_010171
52	F5	coagulation factor V	NM_007976
53	F9	coagulation factor IX	NM_007979
54	Fabp7	fatty acid binding protein 7, brain	NM_021272
55	Fam54b	family with sequence similarity 54, member B	NM_029759
56	Fermt2	fermitin family homolog 2 (Drosophila)	NM_146054
57	Fermt2	fermitin family homolog 2 (Drosophila)	NM_146054
58	Fibin	fin bud initiation factor homolog (zebrafish)	NM_026271
59	Fkbp1a	FK506 binding protein 1a	NM_008019
60	Fkbp1a	FK506 binding protein 1a	NM_008019
61	Fxyd1	FXYD domain-containing ion transport regulator 1	NM_019503 /// NM_052991 /// NM_052992 /// NM_194321
62	Fzd7	frizzled homolog 7 (Drosophila)	NM_008057
63	Gdap2	ganglioside-induced differentiation-associated-protein 2	NM_010269
64	Gdf3	growth differentiation factor 3	NM_008108
65	Gjc1	gap junction protein, gamma 1	NM_001159382 /// NM_001159383 /// NM_008122
66	Gm10080 /// Gm5526 /// Gp	predicted gene 10080 /// predicted gene 5526 /// predicted gene 8894 /// myosin,	NM_010860 /// XM_001476215 /// XM_484859 /// XM_905351 /// XM_9934
67	Gm5560 /// Gm8429 /// Slc	predicted gene 5560 /// predicted gene 8429 /// solute carrier family 25 (mitoch	NM_001081233 /// NM_007451 /// XR_033177
68	Gnl2	guanine nucleotide binding protein-like 2 (nucleolar)	NM_145552
69	Gpr137b-ps	G protein-coupled receptor 137B, pseudogene	NR_003568 /// XR_001658
70	Grsf1	G-rich RNA sequence binding factor 1	NM_001098476 /// NM_178700
71	Gstm1	glutathione S-transferase, mu 1	NM_010358
72	Gstm1	glutathione S-transferase, mu 1	NM_010358
73	Gstm2	glutathione S-transferase, mu 2	NM_008183
74	Gtf3c2	general transcription factor IIIC, polypeptide 2, beta	NM_027901
75	Hdgfrp3	hepatoma-derived growth factor, related protein 3	NM_013886
76	Hdgfrp3	hepatoma-derived growth factor, related protein 3	NM_013886
77	Hlfpk1	homeodomain interacting protein kinase 1	NM_010432
78	Hlcs	holocarboxylase synthetase (biotin- [propionyl-Coenzyme A-carboxylase (ATP-hydro	NM_139145
79	Hlx	H2.0-like homeobox	NM_008250
80	Hoxb6	homeo box B6	NM_008269
81	Htatsf1	HIV TAT specific factor 1	NM_028242
82	Igfbp6	insulin-like growth factor binding protein 6	NM_008344
83	Igfbp7	insulin-like growth factor binding protein 7	NM_001159518 /// NM_008048
84	Igh-6	immunoglobulin heavy chain 6 (heavy chain of IgM)	---
85	Igh-6	immunoglobulin heavy chain 6 (heavy chain of IgM)	---
86	Igk-V1	immunoglobulin kappa chain variable 1 (V1)	---
87	Ino80e	INO80 complex subunit E	NM_153580
88	Jam2	junction adhesion molecule 2	NM_023844
89	Kcna5	potassium voltage-gated channel, shaker-related subfamily, member 5	NM_145983

90	:Khdrbs3	:KH domain containing, RNA binding, signal transduction associated 3	NM_010158
91	:Kif5b	:kinesin family member 5B	NM_008448
92	:Kif5b	:kinesin family member 5B	NM_008448
93	:Kitl	:kit ligand	NM_013598
94	:Klra17	:killer cell lectin-like receptor, subfamily A, member 17	NM_133203
95	:Las1l	:LAS1-like (S. cerevisiae)	NM_152822
96	:Leng1	:leukocyte receptor cluster (LRC) member 1	NM_027203
97	:Lgals1	:lectin, galactose binding, soluble 1	NM_008495
98	:Limch1	:LIM and calponin homology domains 1	NM_001001980
99	:Lims2	:LIM and senescent cell antigen like domains 2	NM_144862
100	:Lmcd1	:LIM and cysteine-rich domains 1	NM_144799
101	:Lmna	:lamin A	NM_001002011 /// NM_001111102 /// NM_019390
102	:LOC100045677 /// Mcm3	:similar to DNA replication licensing factor MCM3 (DNA polymerase alpha holoenzym	NM_008563 /// XR_031705
103	:LOC100045677 /// Mcm3	:similar to DNA replication licensing factor MCM3 (DNA polymerase alpha holoenzym	NM_008563 /// XR_031705
104	:LOC100047693 /// Pvr13	:similar to cell adhesion molecule nectin-3 beta /// poliovirus receptor-related	NM_021495 /// NM_021496 /// NM_021497 /// XM_001478695
105	:Lrig1	:leucine-rich repeats and immunoglobulin-like domains 1	NM_008377
106	:Lrig1	:leucine-rich repeats and immunoglobulin-like domains 1	NM_008377
107	:Lrrflp1	:leucine rich repeat (in FLII) interacting protein 1	NM_001111311 /// NM_001111312 /// NM_008515
108	:Lxn	:latexin	NM_016753
109	:Mapk8	:mitogen-activated protein kinase 8	NM_016700
110	:Mark1	:MAP/microtubule affinity-regulating kinase 1	NM_145515
111	:Marveld1	:MARVEL (membrane-associating) domain containing 1	XR_035382 /// XR_035422
112	:Meis1	:Meis homeobox 1	NM_010789
113	:Meis2	:Meis homeobox 2	NM_001136072 /// NM_001159567 /// NM_001159568 /// NM_001159569
114	:Mela	:melanoma antigen	NM_008581
115	:Mela	:melanoma antigen	NM_008581
116	:Mela	:Melanoma antigen	NM_008581
117	:Mest	:mesoderm specific transcript	NM_008590
118	:Mmp23	:matrix metallopeptidase 23	NM_011985
119	:Mmp23	:matrix metallopeptidase 23	NM_011985
120	:Mpdz	:multiple PDZ domain protein	NM_010820
121	:Mtap7d1	:microtubule-associated protein 7 domain containing 1	NM_001145970 /// NM_144941
122	:Ncapg	:non-SMC condensin I complex, subunit G	NM_019438 /// XM_485604
123	:Ndn	:necdin	NM_010882
124	:Ndn	:necdin	NM_010882
125	:Ndn	:necdin	NM_010882
126	:Ndn	:necdin	NM_010882
127	:Ndn	:necdin	NM_010882
128	:Neddd4l	:neural precursor cell expressed, developmentally down-regulated gene 4-like	NM_001114386 /// NM_031881
129	:Nelf	:nasal embryonic LHRH factor	NM_001039386 /// NM_001039387 /// NM_020276
130	:Nfib	:nuclear factor I/B	NM_001113209 /// NM_001113210 /// NM_008687
131	:Nolc1	:nucleolar and coiled-body phosphoprotein 1	NM_001039351 /// NM_001039352 /// NM_001039353 /// NM_053086
132	:Npdc1	:neural proliferation, differentiation and control gene 1	NM_008721
133	:Npnt	:nephronectin	NM_001029836 /// NM_033525
134	:Nupr1	:nuclear protein 1	NM_019738
135	:Parva	:parvin, alpha	NM_020606

136	Pcolce	:procollagen C-endopeptidase enhancer protein	NM_008788
137	Pdgfa	:platelet derived growth factor, alpha	NM_008808
138	Pdk4	:pyruvate dehydrogenase kinase, isoenzyme 4	NM_013743
139	Pfn2	:profilin 2	NM_019410
140	Pfn2	:profilin 2	NM_019410
141	Plagl1	:pleiomorphic adenoma gene-like 1	NM_009538
142	Plekha2	:pleckstrin homology domain-containing, family A (phosphoinositide binding specif	NM_031257
143	Plekha5	:pleckstrin homology domain containing, family A member 5	NM_144920
144	Pofut2	:protein O-fucosyltransferase 2	NM_030262
145	Pofut2	:protein O-fucosyltransferase 2	NM_030262
146	Pon3	:paraoxonase 3	NM_173006
147	Ppap2a	:phosphatidic acid phosphatase type 2A	NM_008247 /// NM_008903
148	Ppap2a	:phosphatidic acid phosphatase type 2A	NM_008247 /// NM_008903
149	Ppargc1a	:peroxisome proliferative activated receptor, gamma, coactivator 1 alpha	NM_008904 /// NR_027710
150	Ppic	:peptidylprolyl isomerase C	NM_008908
151	Ppp1r3c	:protein phosphatase 1, regulatory (inhibitor) subunit 3C	NM_016854
152	Prpf19	:PRP19/PSO4 pre-mRNA processing factor 19 homolog (S. cerevisiae)	NM_134129
153	Prpf19	:PRP19/PSO4 pre-mRNA processing factor 19 homolog (S. cerevisiae)	NM_134129
154	Ptgis	:prostaglandin I2 (prostacyclin) synthase	NM_008968
155	Ptgs1	:prostaglandin-endoperoxide synthase 1	NM_008969
156	Ptov1	:prostate tumor over expressed gene 1	NM_133949
157	Pvri3	:poliovirus receptor-related 3	NM_021495 /// NM_021496 /// NM_021497
158	Pygb	:brain glycogen phosphorylase	NM_153781
159	Rab34	:RAB34, member of RAS oncogene family	NM_001159482 /// NM_033475
160	Rab34	:RAB34, member of RAS oncogene family	NM_001159482 /// NM_033475
161	Rabggta	:Rab geranylgeranyl transferase, a subunit	NM_019519
162	Rarres2	:retinoic acid receptor responder (tazarotene induced) 2	NM_027852
163	Rbm19	:RNA binding motif protein 19	NM_028762
164	Rpl13 /// Tax1bp3	:ribosomal protein L13 /// Tax1 (human T-cell leukemia virus type I) binding prot	NM_016738 /// NM_029564
165	Rras	:Harvey rat sarcoma oncogene, subgroup R	NM_009101
166	Ryr2	:ryanodine receptor 2, cardiac	NM_023868
167	Sel1l	:sel-1 suppressor of lin-12-like (C. elegans)	NM_001039089 /// NM_011344
168	Sh3d19	:SH3 domain protein D19	NM_001082414
169	Slc12a8	:solute carrier family 12 (potassium/chloride transporters), member 8	NM_001083902 /// NM_134251
170	Slc25a23	:solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 23	NM_025877
171	Slco5a1	:solute carrier organic anion transporter family, member 5A1	NM_172841
172	Smap	:sarcolemma associated protein	NM_032008
173	Smo	:smoothened homolog (Drosophila)	NM_176996
174	Sncg	:synuclein, gamma	NM_011430
175	Soat2	:sterol O-acyltransferase 2	NM_146064
176	Socs2	:suppressor of cytokine signaling 2	NM_007706
177	Socs3	:suppressor of cytokine signaling 3	NM_007707
178	Sparcl1	:SPARC-like 1	NM_010097
179	Speg	:SPEG complex locus	NM_001085370 /// NM_001085371 /// NM_007463
180	Spp1	:secreted phosphoprotein 1	NM_009263
181	Sqrdl	:sulfide quinone reductase-like (yeast)	NM_001162503 /// NM_021507 /// NR_027888

182	Ssfa2	sperm specific antigen 2	NM_080558
183	Syngr1	synaptogyrin 1	NM_009303 /// NM_207708
184	Tax1bp3	Tax1 (human T-cell leukemia virus type I) binding protein 3	NM_029564
185	Tinagl1	tubulointerstitial nephritis antigen-like 1	NM_023476
186	Tmem161a	transmembrane protein 161A	NM_145597
187	Tmem192	transmembrane protein 192	NM_001163747 /// NM_028427
188	Tnfrsf13b	tumor necrosis factor receptor superfamily, member 13b	NM_021349
189	Tnfrsf13c	tumor necrosis factor receptor superfamily, member 13c	NM_028075
190	Tnpo3	transportin 3	NM_177296
191	Trim24	tripartite motif-containing 24	NM_145076
192	Trim47	tripartite motif-containing 47	NM_172570
193	Tspan2	tetraspanin 2	NM_027533
194	Ttc13	tetratricopeptide repeat domain 13	NM_145607
195	Tubb6	tubulin, beta 6	NM_026473
196	Wwtr1	WW domain containing transcription regulator 1	NM_133784
197	Wwtr1	WW domain containing transcription regulator 1	NM_133784
198	Zc3h18	zinc finger CCCH-type containing 18	NM_001029993 /// NM_001029994
199	---	---	---
200	---	---	---

Table S9. Number of significantly varying genes in two independent studies

		STUDY 1 (INITIAL)		STUDY 2 (VALIDATION)	
Sample	Analysis	Gene probes	Unique Genes	Gene probes	Unique Genes
PC	ANOVA	2963	2516*	1321	1122*
OG	ANOVA	136	132	133	124
PC	BETR	266	241	28	28
OG	BETR	117	113	200	176

*estimated

Figure S1. Histology of progressing plasma cell tumors in pristane oil-treated iMyc

mice. To identify and enumerate plasma cells *in situ*, paraffin-embedded formalin-fixed tissue sections of oil granulomas analyzed at early (day 7; panels A and B), middle (day 39, panels C and D) and late (day 107; panels E and F) times after ip injection of pristane were sectioned and either stained with hematoxylin and eosin (H&E; panels A, C and E) or immunolabeled with antibody to mouse immunoglobulin kappa light chains followed by counterstaining with hematoxylin (panels B, D and F). Cytoplasmic light chains were visualized using vector red (panels B and F) or diaminobenzidine (DAB; panel D) as substrates. All images were acquired with a 40X objective.

Figure S2. Focused analysis of gene expression changes during tumor progression in

initial study. Heat map of significantly changed genes during tumor progression in LMD-isolated PC samples or non-dissected whole-tissue OG samples. A total of 1385 gene probes were selected by ANOVA and subjected to unsupervised hierarchical cluster analysis.

Figure S3. Combined analysis of gene expression changes during tumor progression

in initial study (Study 1) and validation study (Study 2). Panel A depicts a heat map that resulted from unsupervised hierarchical cluster analysis of RNAs from PC and OG samples, using 5,521 variance-filtered genes (showing the top 25% variance and of which more than 20% of expression values have at least 1.5-fold change in either direction from the gene's median value). Panel B depicts the clustering of the 1205 ANOVA-revealed gene probes ($p < 0.001$) that showed significant differences in the PC samples from both experiments. The samples are ordered chronologically according to the day after which PCT development had been induced by ip administration of pristane.

Figure S4. Time courses of expression levels of five selected ANOVA-revealed OG

genes up- or downregulated in tissues containing frank tumor cells compared to tissues harboring premalignant tumor precursors. Log₂-transformed mean gene expression levels (horizontal lines) and individual gene expression levels (dots) at indicated times post tumor induction with pristane are plotted for Study 1 (Initial study) in the left column and Study 2 (Validation study) in the center column. The results of statistical comparisons (two-tailed t-test) of mean expression levels of combined tumor precursor samples (white columns; days 7-33 in case of Study 1 [n=9]; days 7-49 in case of Study 2 [n=12]) and tumor samples (black columns; day 104 in case of Study 1 [n=3]; day 105 in case of Study 2 [n=3]) are indicated as *p* values in the right column. *Eif2ak3*, eukaryotic translation initiation factor 2 alpha kinase 3; *Ccl11*, chemokine (C-C motif) ligand 11; *Cd36*, CD36 antigen; *Ear1*, eosinophil-associated, ribonuclease A family, member 1; *Rab34*, RAB34 member of RAS oncogene family.

Figure S5. Genetic pathway maps implicated in PCT progression by Metacore

(GeneGo) analysis. Statistically significant maps detected at a false discovery rate (FDR) of 10^{-4} in the PC samples from Study 2 (n=26) and Study 1 (n=7) are presented in panels A and B, respectively. Maps are ordered from top to bottom according to level of significance, which is expressed as negative logarithmic p value. Panel C depicts the top three significant maps at FDR 10^{-3} that exhibit the greatest deal of similarity between Studies 1 and 2. The maps are indicated in bright colors. Also included are three highly similar maps that are, however, not significant at FDR 10^{-3} and, therefore, indicated in dull colors.

Figure S6. Genes involved in mouse PCT progression in mouse are highly enriched in a gene set that includes human MGUS, SMM and MM).

A) Human Heat Map. Heat map of significantly differentially expressed genes (FDR < 5%) in 115 cases from the Mayo Clinic Patient Dataset deposited at the Multiple Myeloma Genomics Portal (MMGP), Broad Institute, Cambridge, Massachusetts (<http://www.broadinstitute.org/mmgp/>): MGUS (n=22), SMM (n=24) and MM (n=69). RNA samples from CD138⁺ plasma cells from patient bone marrows had been hybridized to Affymetrix U133A microarrays and gene expression determined according to established procedures. RMA-normalized data files were transferred from the MMGP website to the University of Iowa, where ANOVA analysis of the 18,737 genes that have a mouse counterpart with the identical gene name revealed 2,292 unique, annotated genes that varied significantly among the MGUS, SMM and MM groups. These genes were represented by 2,963 gene probes, which were subjected to unsupervised hierarchical cluster analysis that produced the presented heat map. Relapsed MM, which is also included in the Mayo Clinic Patient Dataset, was excluded here because of uncertainty whether gene expression changes reflected tumor progression or treatment effects.

B) Venn diagram on the origin and number of mouse genes used for cross-species comparison with the Mayo Clinic Patient Dataset. The mouse ANOVA-PC-gene probe sets from Study 1 and Study 2 (corrected for genes also found in OG stroma, see Figs. 2B and 3B for details) were merged to identify probes that varied significantly in the course of PCT progression in *either* Study 1 *or* Study 2 (“combined” probe set) or in *both* Study 1 *and* Study 2 (“in-common” probe set). The merged dataset was found to be populated by more than 4,000 gene probes that represented 2,218 “combined,” unique, annotated mouse genes with synonymous human counterparts. These “combined” genes were used for the statistical comparison with the Mayo Clinic Patient Dataset presented in panel C. The merged dataset also contained 386 gene probes that represented 315 “in-common,” unique, annotated mouse genes with synonymous homologues in the human genome. These “in-common” mouse genes were used for the statistical analysis of the Mayo Clinic Patient Dataset as depicted in panel D and displayed as a heat map in panel E.

C) Statistical analysis of the enrichment of “combined” mouse PCT progression genes in the Mayo Clinic Patient Dataset. EASE [Expression Analysis Systematic Explorer, Hosack, et al., *Genome Biol* **4**, R70 (2003)] was employed to determine whether genes that were found to be variably expressed during progression of mouse PCT were also statistically overrepresented in the human MGUS-SMM-MM dataset presented in panel A. EASE uses concepts very similar to those employed in genetic pathway enrichment analyses; it calculates p values to indicate the statistical strength of biologic associations. 294 (12.8%) of the 2,218 unique, “combined” mouse LMD-PC genes, which were shown by ANOVA to vary significantly during the course of mouse PCT progression in *either* Study 1 *or* Study 2, were also found within the set of 2,292 human genes from the Mayo Clinic. This overlap was significant ($p = 0.00285$) using the EASE software tool for statistical comparison.

D) Statistical analysis of the enrichment of “in-common” mouse PCT progression genes in the Mayo Clinic Patient Dataset. In a more stringent statistical analysis compared to that presented in panel C, 40 (12.7%) of the 315 “in-common” mouse LMD-PC genes – revealed by ANOVA to change significantly during mouse PCT progression in *both* Study 1 *and* Study 2 – were also found within the set of 2,292 human genes from the Mayo Clinic. This overlap was highly significant ($p = 2.05 \times 10^{-15}$) by EASE, in keeping with the expectation that a 12.7% overlap of a set of 315 genes with a 2,292-gene set is much less likely to occur by chance than a 12.8% overlap of a set of 2,218 genes with the same 2,292-gene set.

E) Cross-species heat map visualizing the enrichment of “in-common” mouse PCT progression genes in the Mayo Clinic Patient Dataset. The human counterparts of the 315 mouse genes indicated in panel D were used to re-analyze the Mayo Clinic Dataset in an attempt to reveal heretofore unknown associations in the human samples. The results of unsupervised hierarchical clustering are displayed as a heat map. Two portions of the heat map (boxed in white) are expanded on the right and demonstrate examples of apparent up-regulation of 12 unique genes in MGUS relative to SMM and MM (top right; represented by 15 gene probes) and 7 genes upregulated in SMM/MM relative to MGUS (represented by 15 gene probes; bottom right). More in-depth studies are warranted to validate these putative myeloma progression genes and understand the underlying biology.

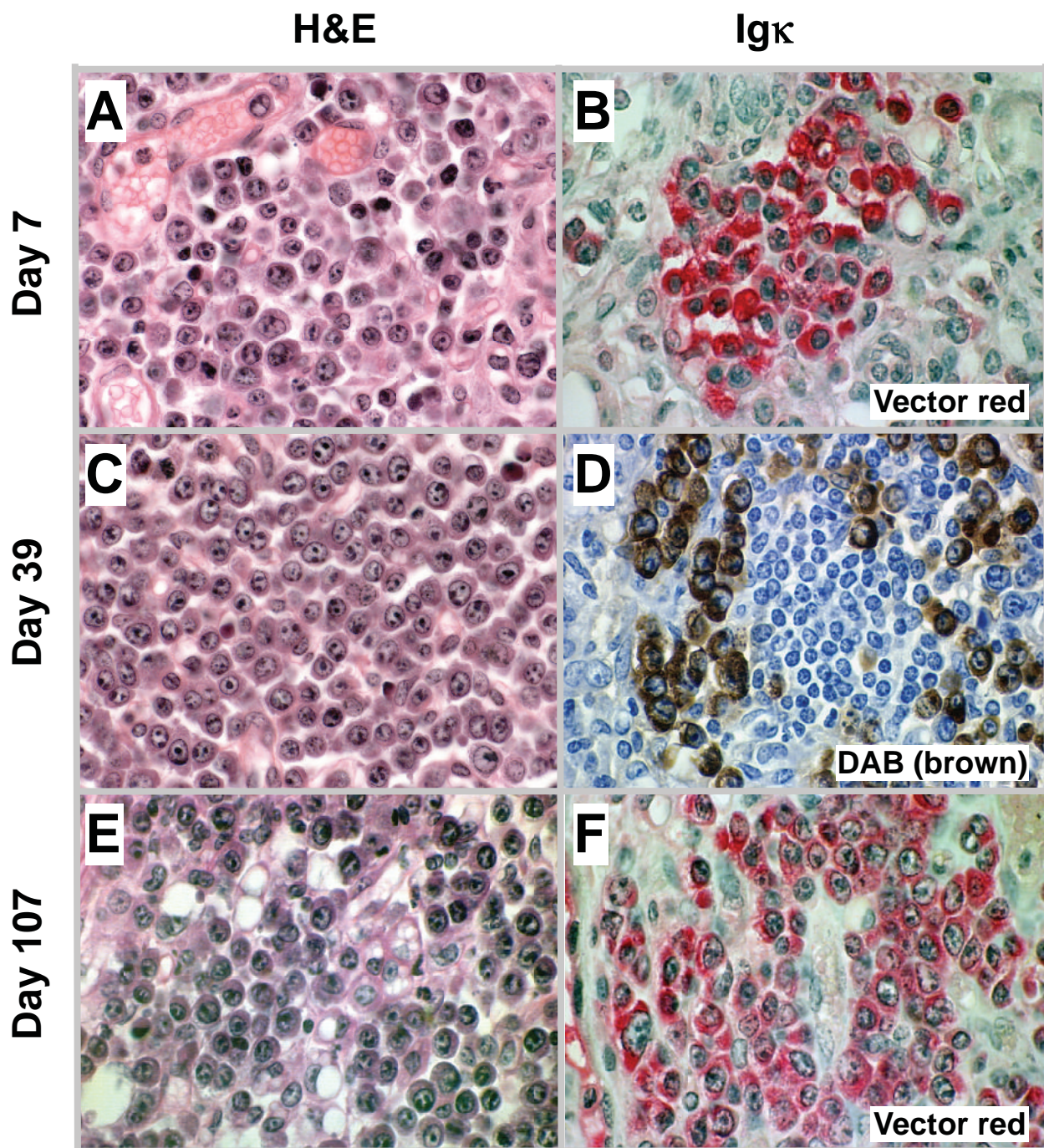


Figure S1

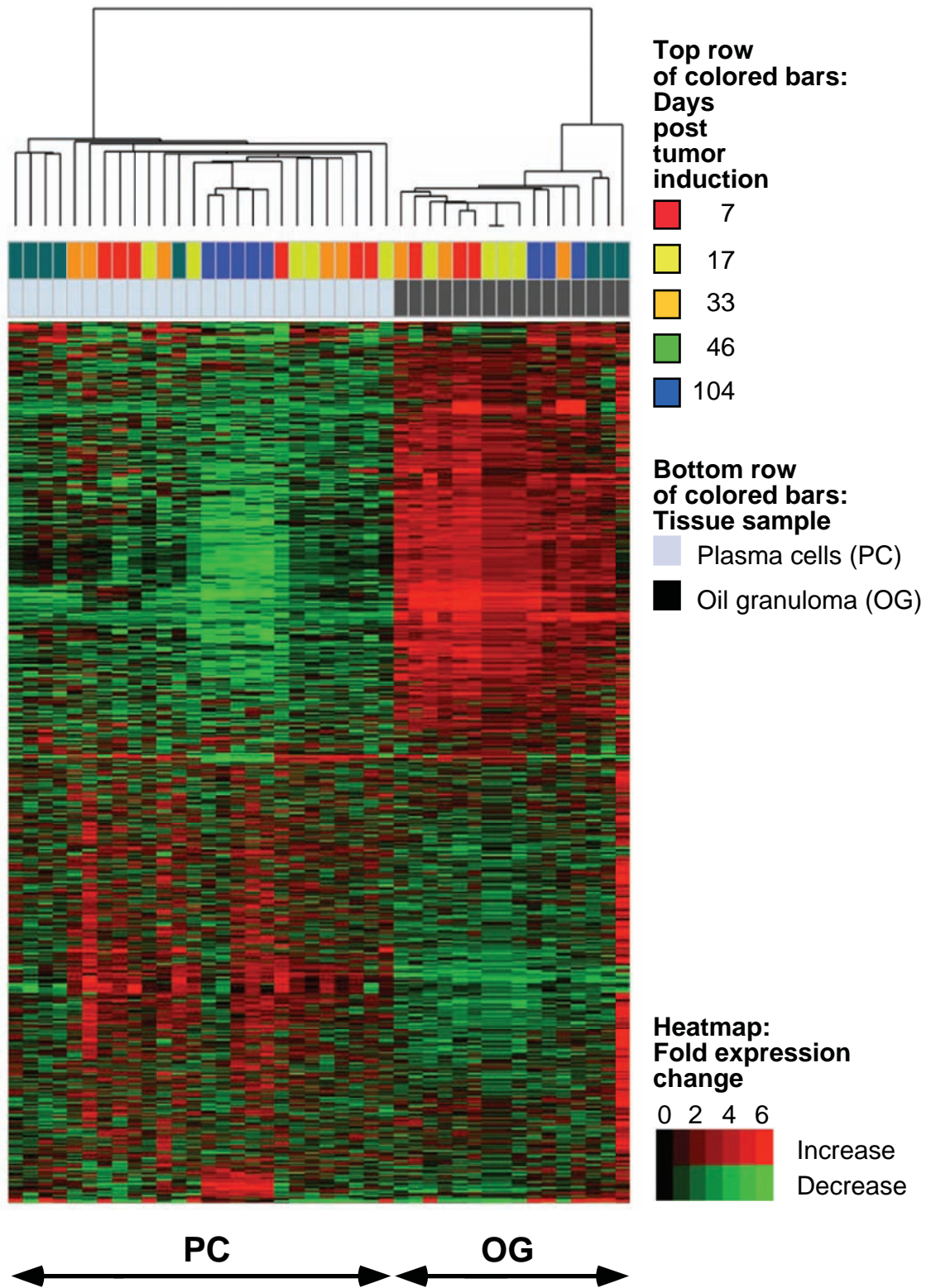
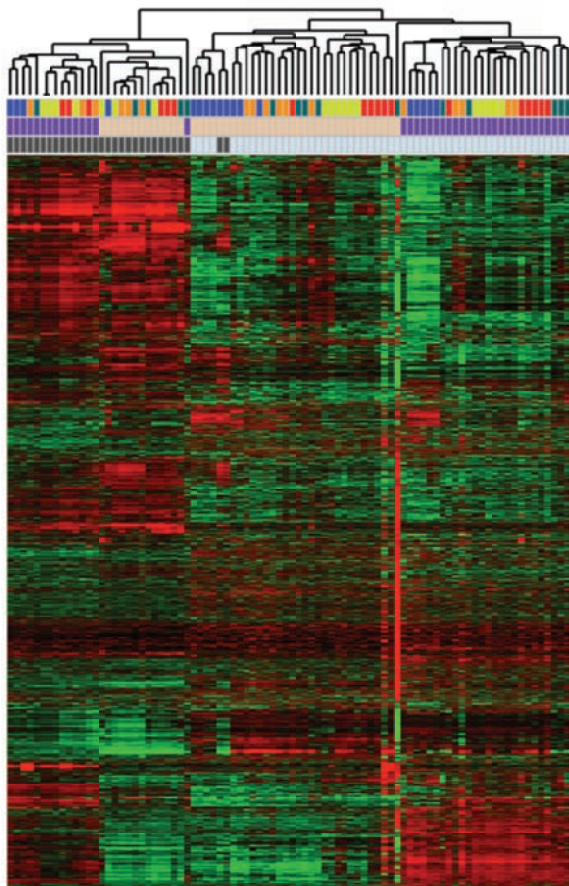
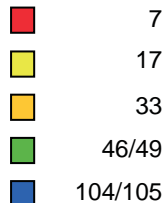


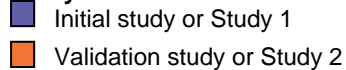
Figure S2

A

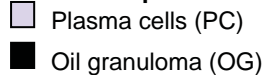
Top row of colored bars:
Days post tumor induction



Center row of colored bars:
Study

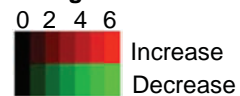
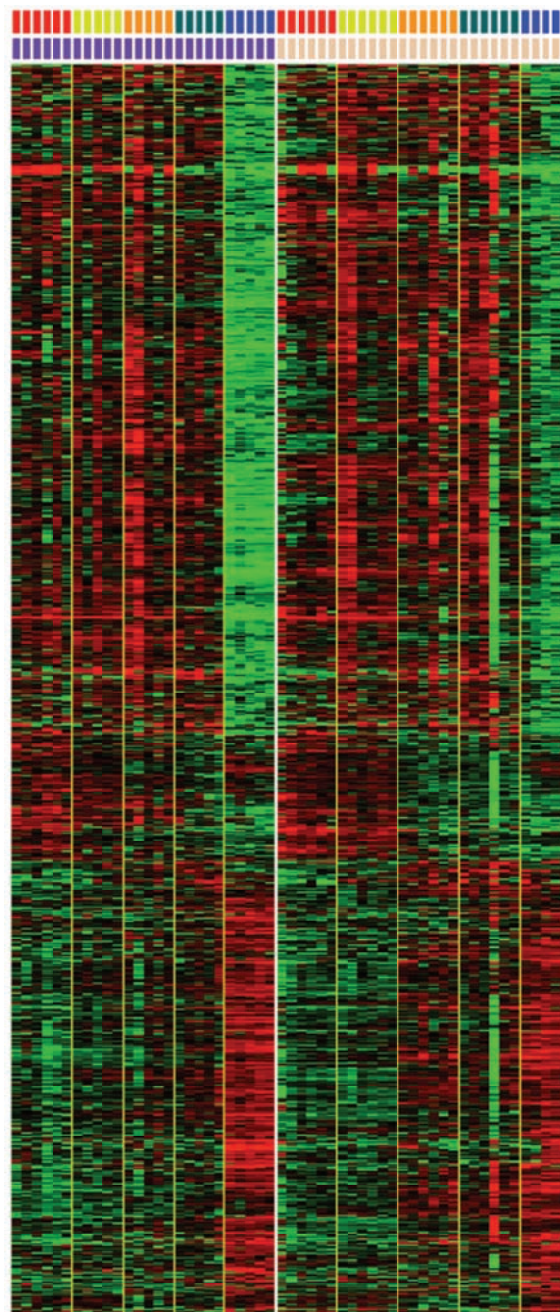


Bottom row of colored bars:
Tissue sample

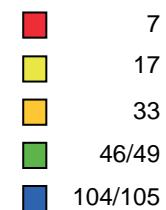


PC and OG from Studies 1 and 2

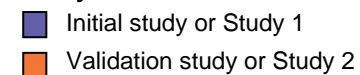
Heatmap:
Fold expression change

**B**

Top row of colored bars:
Days post tumor induction



Bottom row of colored bars:
Study



Heatmap:
Fold expression change



PC only (Study 1) PC only (Study 2)

Figure S3

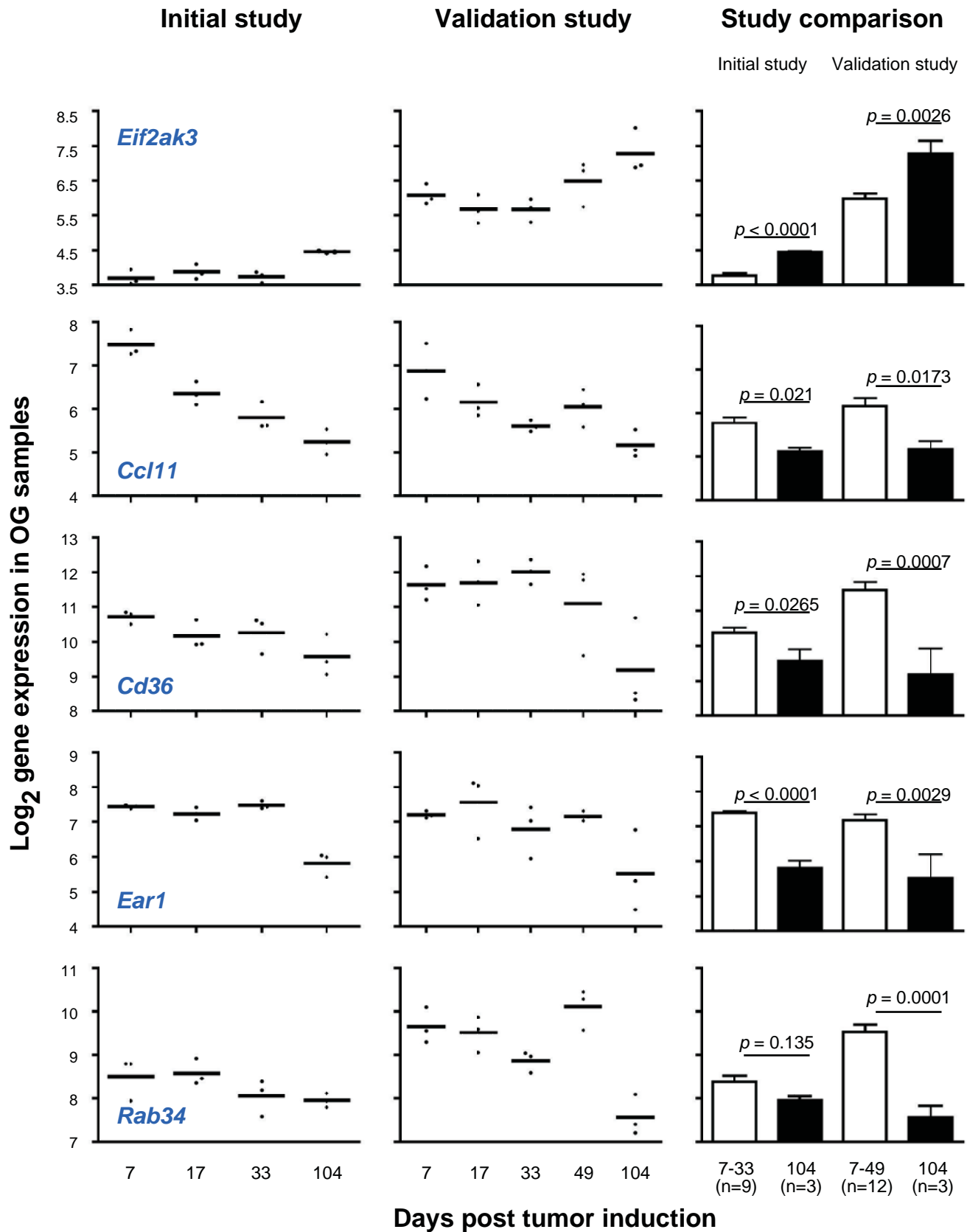
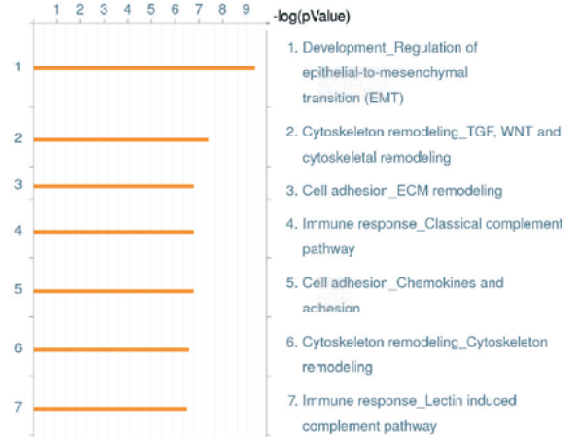


Figure S4

A GeneGo Pathway Maps
 Statistically significant maps
 PC w/o OG (1224 network objects)
 Validation study (Study 2)
 FDR 0.0001



B GeneGo Pathway Maps
 Statistically significant maps
 PC w/o OG (2511 network objects)
 Initial study (Study 1)
 FDR 0.0001



C GeneGo Pathway Maps
 Similarity by maps
 PC w/o OG
 Comparison of Studies 1 and 2
 FDR 0.001

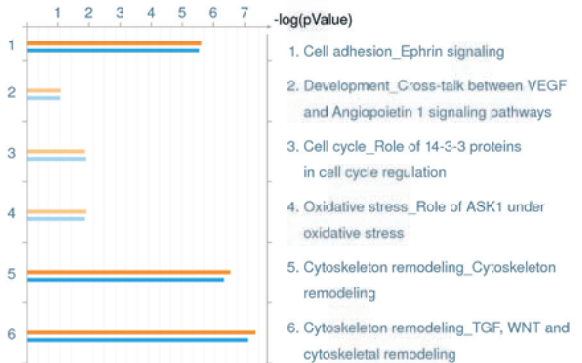


Figure S5

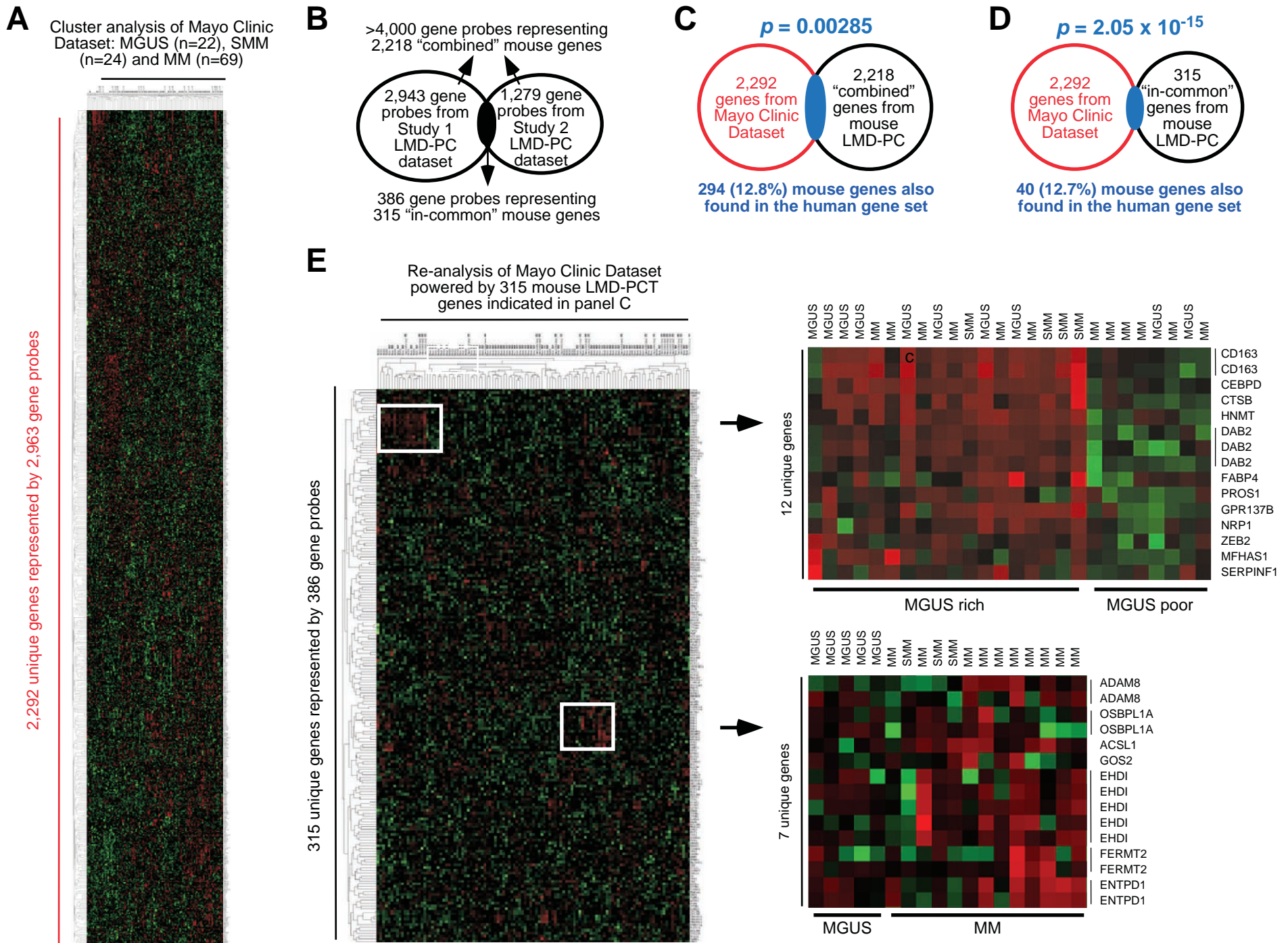


Figure S6