rank = rank based on false discovery analysis
<FP> = false positive rate
FDR = false discovery rate
log2 (ko/wt) = log scale 2 (mean ko std chow / mean wt std chow)
log 2 (koro/ko) = log scale 2 (mean ko ro chow / mean ko std chow)
log 2 ttest ko/wt = unpaired t-test for wt std chow (log2 wt1, log2 wt2, log2 wt3, log2 wt4) versus ko std chow (log2 ko1, log2 ko2, log2 ko3, log2 ko4)
log 2 ttest koro/ko = unpaired t-test for ko ro chow (log2 koro1, log2 koro2, log2 koro3, log2 koro4) versus ko std chow (log2 ko1, log2 ko2, log2 ko3, log2 ko4)
Acc = GenBank Accession number
Description = GenBank description

rank	<FP>	FDR	log2 (ko/wt)	log2 (koro/ko)	log2 ttest ko/wt	log2 ttest koro/k	Acc	Description
1	1.30E-06	1.30E-06	1.67	-0.39	0.09	0.82	NM_011036	pancreatitis-associated protein (Pap)
4	1.37E-05	3.43E-06	2.34	-0.02	0.01	0.97	NM_025777	RIKEN cDNA 9030623N16 gene (9030623N16Rik)
3	1.14E-05	3.78E-06	1.31	-0.19	0.00	0.44	NM_022879	myosin, light polypeptide 7, regulatory (Myl7)
2	7.95E-06	3.97E-06	2.01	-0.85	0.05	0.46	NM_011260	regenerating islet-derived 3 gamma (Reg3g)
5	2.05E-05	4.09E-06	1.61	-0.92	0.12	0.40	NM_011036	pancreatitis-associated protein (Pap)
6	2.51E-05	4.19E-06	1.12	0.20	0.00	0.16	NM_007599	capping protein (actin filament), gelsolin-like (Capg)
7	2.94E-05	4.20E-06	1.27	0.41	0.01	0.38	NM_009903	claudin 4 (Cldn4)
8	5.69E-05	7.11E-06	1.99	-0.04	0.02	0.83	XM_131683	RIKEN cDNA 1700018O18 gene (1700018O18Rik)
9	7.03E-05	7.81E-06	1.00	0.42	0.00	0.20	NM_025929	RIKEN cDNA 2010109I03 gene (2010109I03Rik)
10	9.74E-05	9.74E-06	1.16	-0.27	0.00	0.34	NM_008102	GTP cyclohydrolase 1 (Gch1)
11	1.46E-04	1.33E-05	1.03	0.16	0.00	0.48	NM_133662	immediate early response 3 (Ier3)
12	1.62E-04	1.35E-05	0.95	-0.04	0.00	0.82	NM_030612	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta (Nfkbiz),
14	2.13E-04	1.52E-05	2.00	-0.41	0.01	0.71	XM_110239	tripartite motif protein 15 (Trim15)
13	2.02E-04	1.55E-05	3.43	-2.21	0.05	0.21	NM_029796	leucine-rich alpha-2-glycoprotein 1 (Lrg1)
15	3.39E-04	2.26E-05	1.08	-0.29	0.06	0.61	NM_007913	early growth response 1 (Egr1)
16	3.99E-04	2.49E-05	0.89	0.04	0.01	0.87	NM_009405	troponin I, skeletal, fast 2 (Tnni2)
17	4.67E-04	2.75E-05	1.09	0.47	0.01	0.20	NM_007969	extracellular proteinase inhibitor (Expi)
18	5.27E-04	2.93E-05	0.83	-0.16	0.00	0.48	NM_013642	dual specificity phosphatase 1 (Dusp1)
19	5.74E-04	3.02E-05	0.86	-0.38	0.00	0.12	NM_008489	lipopolysaccharide binding protein (Lbp)
21	8.29E-04	3.95E-05	0.80	0.18	0.00	0.29	NM_018802	synaptotagmin 8 (Syt8)
20	8.19E-04	4.10E-05	0.91	-0.17	0.00	0.40	NM_010415	diphtheria toxin receptor (Dtr)
22	9.35E-04	4.25E-05	0.95	-0.27	0.01	0.29	NM_146094	fatty acid desaturase 1 (Fads1)
25	1.16E-03	4.64E-05	1.10	0.62	0.00	0.03	NM_009344	pleckstrin homology-like domain, family A, member 1 (Phlda1)
24	1.14E-03	4.73E-05	1.08	0.15	0.03	0.73	NM_183274	RIKEN cDNA 0610041G09 gene (0610041G09Rik)
23	1.11E-03	4.81E-05	1.18	-0.41	0.01	0.27	NM_177733	E2F transcription factor 2 (E2f2)
26	1.26E-03	4.84E-05	0.83	0.31	0.00	0.08	NM_145533	spermine oxidase (Smox)
27	1.59E-03	5.88E-05	1.12	-0.86	0.11	0.22	NM_008324	indoleamine-pyrrole 2,3 dioxygenase (Indo)
28	1.93E-03	6.89E-05	0.73	0.01	0.00	0.90	NM_021389	SH3-domain kinase binding protein 1 (Sh3kbp1)
30	2.32E-03	7.73E-05	1.13	-0.28	0.01	0.50	NM_016740	S100 calcium binding protein A11 (calizzarin) (S100a11)
29	2.28E-03	7.86E-05	0.96	-0.41	0.03	0.36	AK007445	10 day old male pancreas cDNA, RIKEN full-length enriched library,
32	3.26E-03	1.02E-04	0.82	0.18	0.01	0.74	NM_007498	activating transcription factor 3 (Atf3)
31	3.26E-03	1.02E-04	0.80	0.38	0.01	0.16	NM_011113	urokinase plasminogen activator receptor (Plaur)
33	3.86E-03	1.17E-04	0.70	-0.02	0.00	0.93	NM_018754	stratifin (Sfn)
34	4.03E-03	1.19E-04	0.69	-0.16	0.01	0.45	NM_008137	guanine nucleotide binding protein, alpha 14 (Gna14)

36	4.69E-03	1.30E-04	0.93	-0.29	0.01	0.42	NM_172976	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3 (Pfkfb3)
35	4.64E-03	1.33E-04	0.59	0.02	0.00	0.86	XM_134274	
37	5.37E-03	1.45E-04	0.62	-0.29	0.00	0.07	NM_019390	lamin A (Lmna)
41	5.99E-03	1.46E-04	0.76	-0.08	0.00	0.66	NM_198627	gene model 691, (NCBI) (Gm691)
40	5.85E-03	1.46E-04	0.60	0.20	0.00	0.13	NM_145977	RIKEN cDNA 2210413P12 gene (2210413P12Rik)
39	5.83E-03	1.49E-04	0.61	-0.13	0.00	0.33	NM_010139	Eph receptor A2 (Epha2)
38	5.77E-03	1.52E-04	0.59	-0.31	0.00	0.05	NM_145554	expressed sequence AA691260 (AA691260)
42	7.91E-03	1.88E-04	0.56	0.52	0.00	0.01	NM_013749	tumor necrosis factor receptor superfamily, member 12a (Tnfrsf12a)
43	8.12E-03	1.89E-04	0.55	-0.19	0.00	0.17	NM_153546	O-acyltransferase (membrane bound) domain containing 1 (Oact1)
45	8.99E-03	2.00E-04	0.61	-0.22	0.04	0.24	NM_009270	squalene epoxidase (Sqle)
44	8.86E-03	2.01E-04	0.61	0.03	0.00	0.85	NM_033149	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 5 (B3galt5)
46	1.11E-02	2.41E-04	0.53	-0.27	0.00	0.07	NM_019980	LPS-induced TN factor (Litaf)
47	1.15E-02	2.45E-04	0.53	-0.10	0.00	0.24	NM_020559	aminolevulinic acid synthase 1 (Alas1)
48	1.34E-02	2.79E-04	0.66	-0.29	0.00	0.17	NM_133753	RIKEN cDNA 1300002F13 gene (1300002F13Rik)
51	1.57E-02	3.09E-04	0.62	-0.23	0.02	0.18	NM_013470	annexin A3 (Anxa3)
50	1.57E-02	3.09E-04	0.75	0.19	0.03	0.49	NM_010234	FBJ osteosarcoma oncogene (Fos)
49	1.57E-02	3.09E-04	0.68	0.29	0.00	0.09	NM_133685	RIKEN cDNA 1700093E07 gene (1700093E07Rik)
52	1.86E-02	3.57E-04	0.50	0.10	0.00	0.44	NM_007918	eukaryotic translation initiation factor 4E binding protein 1 (Eif4ebp1)
53	2.04E-02	3.85E-04	0.62	-0.49	0.00	0.07	NM_026862	RIKEN cDNA 1190003K14 gene (1190003K14Rik)
54	2.16E-02	4.00E-04	0.58	0.16	0.00	0.21	XM_131262	RIKEN cDNA 9130020L07 gene (9130020L07Rik)
55	2.36E-02	4.29E-04	0.51	0.14	0.00	0.40	NM_019390	lamin A (Lmna)
56	2.48E-02	4.43E-04	0.49	-0.12	0.00	0.17	NM_007585	annexin A2 (Anxa2)
57	2.54E-02	4.45E-04	0.58	0.31	0.00	0.13	NM_028766	RIKEN cDNA 1200015A22 gene (1200015A22Rik)
58	2.70E-02	4.66E-04	0.51	-0.25	0.00	0.14	NM_011609	tumor necrosis factor receptor superfamily, member 1a (Tnfrsf1a)
61	3.07E-02	5.03E-04	0.54	0.04	0.00	0.71	NM_023119	enolase 1, alpha non-neuron (Eno1)
60	3.02E-02	5.04E-04	0.52	0.29	0.00	0.20	NM_026087	CEA-related cell adhesion molecule 12 (Ceacam12)
62	3.13E-02	5.05E-04	0.49	-0.04	0.00	0.44	NM_026145	potassium channel tetramerisation domain containing 10 (Kctd10)
64	3.25E-02	5.07E-04	0.55	-0.15	0.01	0.45	NM_028800	RIKEN cDNA 2310004N11 gene (2310004N11Rik)
59	2.99E-02	5.07E-04	0.57	0.05	0.00	0.69	NM_010016	decay accelerating factor 1 (Daf1)
68	3.45E-02	5.08E-04	0.48	-0.36	0.00	0.02	NM_019762	plakophilin 3 (Pkp3)
63	3.20E-02	5.08E-04	0.57	-0.30	0.01	0.08	XM_133915	RIKEN cDNA 1190003J15 gene (1190003J15Rik)
67	3.44E-02	5.13E-04	0.66	-0.17	0.00	0.33	NM_133838	EH-domain containing 4 (Ehd4)
66	3.40E-02	5.15E-04	0.45	0.06	0.00	0.50	NM_178598	transgelin 2 (Tagln2)
65	3.37E-02	5.19E-04	0.48	-0.04	0.00	0.69	NM_019924	ribosomal protein S6 kinase, polypeptide 4 (Rps6ka4)
69	3.66E-02	5.31E-04	1.03	0.08	0.04	0.66	XM_358343	
70	3.73E-02	5.34E-04	0.54	-0.30	0.01	0.03	NM_008850	phosphatidylinositol transfer protein (Pitpn)
71	3.95E-02	5.56E-04	0.47	-0.22	0.00	0.09	NM_008102	GTP cyclohydrolase 1 (Gch1)
72	4.14E-02	5.76E-04	0.48	-0.01	0.00	0.84	NM_007598	CAP, adenylate cyclase-associated protein 1 (yeast) (Cap1)
75	4.46E-02	5.94E-04	0.49	-0.07	0.00	0.56	NM_173371	hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) (H6pd)
74	4.41E-02	5.96E-04	0.51	-0.06	0.01	0.70	NM_019390	lamin A (Lmna)
73	4.37E-02	5.99E-04	0.82	0.39	0.00	0.05	NM_008012	aldo-keto reductase family 1, member B8 (Akr1b8)
76	4.62E-02	6.08E-04	0.47	-0.65	0.00	0.00	XM_204283	RIKEN cDNA 2410003B16 gene (2410003B16Rik)
77	4.85E-02	6.30E-04	0.72	0.18	0.00	0.25	NM_008615	malic enzyme, supernatant (Mod1)
78	5.11E-02	6.55E-04	0.47	-0.15	0.00	0.05	NM_013810	drebrin-like (Dbnl)
79	5.28E-02	6.68E-04	0.48	-0.30	0.00	0.00	NM_011779	coronin, actin binding protein 1C (Coro1c)
80	5.56E-02	6.95E-04	0.58	-0.13	0.01	0.41	NM_007477	ADP-ribosylation factor 2 (Arf2)

81	6.08E-02	7.50E-04	0.68	0.00	0.01	0.94	NM_026268	dual specificity phosphatase 6 (Dusp6)
82	6.93E-02	8.45E-04	0.72	-0.15	0.01	0.57	NM_008474	keratin complex 2, basic, gene 16 (Krt2-16)
83	7.59E-02	9.14E-04	0.43	-0.05	0.00	0.66	NM_025859	ADP-ribosylation factor-like 1 (Arl1)
84	7.72E-02	9.19E-04	0.42	0.09	0.00	0.32	NM_027106	arginine vasopressin-induced 1 (Avpi1)
85	8.16E-02	9.60E-04	0.45	-0.22	0.00	0.06	NM_021565	midnolin (Midn)
86	8.62E-02	1.00E-03	0.43	-0.26	0.00	0.02	NM_011893	SH3-domain binding protein 2 (Sh3bp2)
87	8.87E-02	1.02E-03	0.52	-0.24	0.01	0.18	XM_133034	ubiquitin-conjugating enzyme E2H (Ube2h)
89	9.14E-02	1.03E-03	0.65	-0.02	0.00	0.92	NM_009863	cell division cycle 7 (S. cerevisiae) (Cdc7)
88	9.14E-02	1.03E-03	0.46	-0.01	0.00	0.94	NM_008485	laminin, gamma 2 (Lamc2)
90	9.34E-02	1.04E-03	0.47	-0.20	0.09	0.31	NM_145942	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (Hmgcs1)
91	9.52E-02	1.05E-03	0.55	0.05	0.01	0.90	NM_019390	lamin A (Lmna)
92	1.00E-01	1.09E-03	0.48	-0.17	0.03	0.42	NM_010810	matrix metalloproteinase 7 (Mmp7)
93	0.12	1.24E-03	0.40	0.25	0.00	0.02	NM_009775	benzodiazepine receptor, peripheral (Bzrp)
94	0.12	1.29E-03	0.58	-0.24	0.02	0.29	NM_026447	RIKEN cDNA 2810423O19 gene (2810423O19Rik), transcript variant 1
95	0.13	1.33E-03	0.46	-0.28	0.00	0.02	NM_033073	keratin complex 2, basic, gene 7 (Krt2-7)
96	0.13	1.33E-03	0.43	-0.24	0.01	0.09	NM_025385	RIKEN cDNA 1110020C13 gene (1110020C13Rik)
97	0.14	1.42E-03	0.53	-0.16	0.02	0.41	NM_172488	RIKEN cDNA 9030625A04 gene (9030625A04Rik)
99	0.14	1.44E-03	0.43	0.29	0.00	0.08	XM_109756	
100	0.15	1.45E-03	0.72	0.13	0.00	0.17	NM_181748	G protein-coupled receptor 120 (Gpr120)
98	0.14	1.45E-03	0.70	0.15	0.01	0.39	NM_007687	cofilin 1, non-muscle (Cfl1)
101	0.15	1.46E-03	0.43	0.08	0.01	0.31	NM_008851	phosphatidylinositol transfer protein, membrane-associated 1 (Pitpnm1), transcript variant 1
102	0.17	1.64E-03	0.52	-0.51	0.01	0.01	NM_021895	actinin alpha 4 (Actn4)
103	0.17	1.65E-03	0.40	0.21	0.00	0.03	NM_009883	CCAAT/enhancer binding protein (C/EBP), beta (Cebpb)
104	0.17	1.66E-03	0.39	-0.07	0.00	0.30	NM_008471	keratin complex 1, acidic, gene 19 (Krt1-19)
106	0.18	1.72E-03	0.38	-0.15	0.00	0.31	NM_010637	Kruppel-like factor 4 (gut) (Klf4)
105	0.18	1.73E-03	0.43	0.27	0.04	0.30	NM_009416	tropomyosin 2, beta (Tpm2)
107	0.19	1.78E-03	0.42	-0.20	0.01	0.06	NM_198034	RIKEN cDNA B830021E24 gene (B830021E24Rik)
108	0.2	1.88E-03	0.44	-0.24	0.00	0.01	NM_145135	ribonuclease/angiogenin inhibitor 1 (Rnh1)
111	0.22	1.97E-03	0.39	-0.05	0.00	0.55	NM_013693	tumor necrosis factor (Tnf)
110	0.22	1.98E-03	1.60	-0.24	0.01	0.54	NM_009704	amphiregulin (Areg)
109	0.22	1.99E-03	0.82	-0.46	0.02	0.16	NM_012055	asparagine synthetase (Asns)
112	0.23	2.08E-03	0.41	-0.11	0.01	0.51	NM_011700	villin-like (Vill), transcript variant 2
116	0.25	2.14E-03	0.53	0.19	0.10	0.41	NM_175108	RIKEN cDNA 2310047C17 gene (2310047C17Rik)
115	0.25	2.15E-03	0.58	0.19	0.01	0.21	XM_124389	chloride intracellular channel 4 (mitochondrial) (Clic4)
113	0.24	2.16E-03	0.45	-0.42	0.00	0.01	NM_007899	extracellular matrix protein 1 (Ecm1)
114	0.25	2.16E-03	0.41	-0.35	0.00	0.00	NM_010455	homeo box A7 (Hoxa7)
117	0.26	2.22E-03	0.40	0.18	0.03	0.24	NM_030236	F-box only protein 34 (Fbxo34)
118	0.27	2.30E-03	0.36	0.24	0.00	0.21	NM_134087	expressed sequence AA409316 (AA409316)
123	0.28	2.31E-03	0.45	-0.37	0.03	0.04	NM_011486	signal transducer and activator of transcription 3 (Stat3)
119	0.27	2.31E-03	0.36	-0.17	0.00	0.09	NM_138653	B-box and SPRY domain containing (Bspry)
120	0.28	2.31E-03	0.51	0.39	0.01	0.03	NM_022435	trans-acting transcription factor 5 (Sp5)
121	0.28	2.32E-03	0.37	-0.25	0.00	0.01	NM_011570	testis derived transcript (Tes)
122	0.28	2.33E-03	0.38	0.02	0.00	0.69	XM_110396	fer-1-like 4 (C. elegans) (Fer1l4)
124	0.3	2.40E-03	0.38	-0.02	0.00	0.82	NM_174851	interleukin 28 receptor alpha (Il28ra)
125	0.31	2.48E-03	0.43	0.25	0.00	0.09	NM_133664	ladinin (Lad1)
128	0.32	2.49E-03	0.45	0.02	0.00	0.83	NM_181547	nitric oxide synthase trafficker (LOC329416)

129	0.32	2.49E-03	0.36	0.31	0.03	0.07	NM_016675	claudin 2 (Cldn2)
127	0.32	2.51E-03	0.84	0.18	0.00	0.29	NM_009794	calpain 2 (Capn2)
126	0.32	2.52E-03	0.37	0.07	0.00	0.39	NM_027008	potassium channel tetramerisation domain containing 5 (Kctd5)
130	0.34	2.59E-03	0.35	-0.04	0.00	0.61	NM_008750	nucleoredoxin (Nxn)
131	0.35	2.67E-03	0.45	-0.09	0.10	0.48	NM_134469	farnesyl diphosphate synthetase (Fdps)
132	0.41	3.08E-03	0.38	-0.12	0.00	0.13	NM_023884	Ral GEF with PH domain and SH3 binding motif 2 (Ralgps2), transcript variant 2
133	0.41	3.12E-03	0.42	0.26	0.02	0.08	NM_175433	RIKEN cDNA 5430400N05 gene (5430400N05Rik)
135	0.43	3.19E-03	0.50	0.09	0.05	0.59	XM_283903	
134	0.43	3.20E-03	0.37	0.42	0.00	0.00	NM_007559	bone morphogenetic protein 8b (Bmp8b)
136	0.44	3.22E-03	0.45	0.01	0.04	0.94	NM_009338	acetyl-Coenzyme A acetyltransferase 2 (Acat2)
138	0.45	3.28E-03	0.46	0.05	0.04	0.94	NM_010476	hydroxysteroid (17-beta) dehydrogenase 7 (Hsd17b7)
137	0.45	3.28E-03	0.45	0.20	0.01	0.12	NM_018820	SERTA domain containing 1 (Sertad1)
139	0.46	3.31E-03	0.41	0.31	0.00	0.12	NM_172383	RIKEN cDNA 6330530A05 gene (6330530A05Rik)
140	0.47	3.37E-03	0.50	-0.28	0.01	0.15	NM_008028	flotillin 2 (Flot2)
141	0.48	3.38E-03	0.36	0.11	0.01	0.06	NM_080559	SH3 domain binding glutamic acid-rich protein-like 3 (Sh3bgrl3)
142	0.49	3.46E-03	0.36	0.58	0.03	0.01	NM_007485	ras homolog gene family, member D (Rhod)
143	0.53	3.67E-03	0.57	-0.08	0.02	0.75	NM_025829	RIKEN cDNA 1300018P11 gene (1300018P11Rik)
144	0.53	3.71E-03	0.42	-0.10	0.08	0.71	NM_145545	RIKEN cDNA 9830147J24 gene (9830147J24Rik)
146	0.56	3.80E-03	0.35	-0.23	0.03	0.09	NM_011117	plectin 1 (Plec1), transcript variant 1
147	0.56	3.80E-03	0.33	-0.03	0.00	0.63	XM_142024	RIKEN cDNA 5730416F02 gene (5730416F02Rik)
149	0.57	3.82E-03	0.35	0.20	0.02	0.16	XM_133826	general transcription factor III C 1 (Gtf3c1)
145	0.56	3.83E-03	0.39	-0.18	0.01	0.06	NM_009457	ubiquitin-activating enzyme E1, Chr X (Ube1x)
148	0.57	3.84E-03	0.47	-0.37	0.01	0.04	NM_011486	signal transducer and activator of transcription 3 (Stat3)
150	0.58	3.87E-03	0.39	0.29	0.00	0.10	NM_008928	mitogen activated protein kinase kinase 3 (Map2k3)
151	0.6	3.96E-03	0.34	0.11	0.00	0.01	NM_178606	DNA segment, Chr 10, University of California at Los Angeles 1 (D10Ucla1)
152	0.61	4.02E-03	0.33	-0.35	0.00	0.00	NM_011715	WD repeat domain 1 (Wdr1)
153	0.62	4.03E-03	0.95	-0.37	0.05	0.44	NM_020016	melanoma antigen, family A, 2 (Magea2)
154	0.63	4.12E-03	0.54	0.00	0.00	0.90	NM_018761	catenin alpha-like 1 (Catnal1)
155	0.65	4.20E-03	0.44	-0.21	0.01	0.15	NM_025429	serine (or cysteine) proteinase inhibitor, clade B, member 1a (Serpinb1a)
156	0.72	4.62E-03	0.34	0.32	0.00	0.00	NM_028416	kringle containing transmembrane protein 2 (Kremen2)
157	0.75	4.78E-03	0.58	-0.32	0.06	0.29	NM_008491	lipocalin 2 (Lcn2)
158	0.79	4.99E-03	0.58	-0.09	0.01	0.52	NM_010495	inhibitor of DNA binding 1 (Idb1)
159	0.8	5.01E-03	0.35	-0.14	0.02	0.21	NM_030693	activating transcription factor 5 (Atf5)
160	0.8	5.02E-03	0.39	-0.28	0.01	0.03	NM_026163	plakophilin 2 (Pkp2)
162	0.82	5.07E-03	0.48	0.00	0.02	0.96	NM_008416	Jun-B oncogene (Junb)
161	0.82	5.09E-03	0.37	-0.31	0.01	0.03	NM_025801	phosphogluconate dehydrogenase (Pgd)
163	0.83	5.12E-03	0.35	0.09	0.00	0.28	NM_207265	RIKEN cDNA C230071H18 gene (C230071H18Rik)
164	0.85	5.16E-03	0.33	-0.06	0.00	0.51	NM_145533	spermine oxidase (Smox)
165	0.86	5.19E-03	0.34	-0.10	0.00	0.16	NM_207655	epidermal growth factor receptor (Egfr), transcript variant 1
166	0.89	5.35E-03	0.42	-0.32	0.01	0.04	NM_027874	casein kinase 1, delta (Csnk1d), transcript variant 2
167	0.91	5.46E-03	0.57	0.18	0.03	0.59	NM_173733	sulfite oxidase (Suox)
168	0.93	5.48E-03	0.44	-0.21	0.05	0.33	NM_009141	chemokine (C-X-C motif) ligand 5 (Cxcl5)
169	0.93	5.48E-03	0.50	-0.12	0.01	0.48	XM_355635	
170	0.94	5.56E-03	0.34	0.10	0.04	0.39	NM_011777	zyxin (Zyx)
171	0.95	5.57E-03	0.43	0.12	0.00	0.67	NM_008654	myeloid differentiation primary response gene 116 (Myd116)
172	1	5.84E-03	0.38	-0.19	0.02	0.13	NM_023579	karyopherin (importin) beta 3 (Kpnb3)

173	1.05	6.08E-03	0.35	-0.17	0.01	0.13	XM_355676	RIKEN cDNA 3830408G10 gene (3830408G10Rik)
175	1.07	6.11E-03	0.43	-0.26	0.01	0.10	NM_011998	carbohydrate (chondroitin 6/keratan) sulfotransferase 4 (Chst4)
174	1.06	6.12E-03	0.34	0.20	0.01	0.08	NM_172691	RIKEN cDNA B230312A22 gene (B230312A22Rik)
176	1.09	6.18E-03	0.37	-0.11	0.00	0.35	NM_199009	RIKEN cDNA 4632419K20 gene (4632419K20Rik)
177	1.12	6.33E-03	0.42	-0.26	0.01	0.12	NM_010557	interleukin 4 receptor, alpha (Il4ra)
178	1.15	6.47E-03	0.36	-0.02	0.00	0.62	NM_009384	T-cell lymphoma invasion and metastasis 1 (Tiam1)
179	1.17	6.53E-03	0.31	-0.04	0.00	0.54	XM_130033	
180	1.19	6.62E-03	0.33	0.00	0.04	0.96	NM_207202	DNA segment, Chr X, Immunex 50, expressed (DXImx50e)
182	1.25	6.87E-03	0.38	-0.15	0.00	0.20	NM_153392	RIKEN cDNA 4922503N01 gene (4922503N01Rik)
181	1.25	6.89E-03	0.36	-0.51	0.00	0.00	XM_134274	
183	1.31	7.13E-03	0.32	0.22	0.00	0.01	NM_145469	RIKEN cDNA 9330161F08 gene (9330161F08Rik)
184	1.33	7.25E-03	0.47	0.11	0.01	0.41	NM_009812	caspase 8 (Casp8)
185	1.36	7.37E-03	0.51	-0.48	0.00	0.00	NM_028023	cell division cycle associated 4 (Cdca4)
186	1.4	7.54E-03	0.44	-0.07	0.01	0.52	NM_011843	membrane bound C2 domain containing protein (Mbc2)
188	1.56	8.30E-03	1.11	-0.88	0.06	0.13	NM_009311	tachykinin 1 (Tac1)
187	1.55	8.31E-03	0.36	-0.13	0.00	0.12	NM_009395	tumor necrosis factor, alpha-induced protein 1 (endothelial) (Tnfaip1)
189	1.58	8.35E-03	0.99	-0.06	0.03	1.00	NM_018876	fucosyltransferase 2 (Fut2)
190	1.64	8.63E-03	0.40	-0.37	0.00	0.01	NM_028064	solute carrier family 39 (zinc transporter), member 4 (Slc39a4)
191	1.67	8.76E-03	0.34	-0.01	0.01	0.92	NM_145533	spermine oxidase (Smox)
192	1.7	8.83E-03	0.30	-0.19	0.13	0.24	NM_183034	pleckstrin homology domain containing, family M (with RUN domain) member 1 (Plekhm1)
193	1.77	9.19E-03	0.31	-0.29	0.00	0.04	NM_172584	inositol 1,3,4-triphosphate 5/6 kinase (Itpk1)
196	1.82	9.28E-03	0.41	-0.11	0.02	0.52	NM_010877	neutrophil cytosolic factor 2 (Ncf2)
195	1.81	9.29E-03	0.32	0.39	0.06	0.04	NM_007483	ras homolog gene family, member B (Rhob)
194	1.81	9.33E-03	0.30	-0.40	0.00	0.00	XM_134274	
199	1.95	9.79E-03	0.49	-0.13	0.02	0.39	XM_128926	laminin, alpha 3 (Lama3)
198	1.95	9.83E-03	0.30	0.26	0.00	0.02	NM_181444	retinoic acid induced 3 (Rai3)
197	1.94	9.86E-03	0.33	0.65	0.12	0.01	NM_145209	2-5 oligoadenylate synthetase-like 1 (Oasl1)
200	1.97	9.87E-03	0.32	-0.11	0.00	0.30	NM_138752	expressed sequence AI194308 (AI194308)
201	2.07	1.03E-02	0.32	-0.19	0.01	0.08	NM_026473	RIKEN cDNA 2310057H16 gene (2310057H16Rik)
202	2.13	1.06E-02	0.34	-0.05	0.01	0.65	NM_175833	carnitine deficiency-associated gene expressed in ventricle 3 (Cdv3)
203	2.16	1.06E-02	0.29	-0.03	0.00	0.68	NM_021359	integrin beta 6 (Itgb6)
204	2.18	1.07E-02	0.33	-0.57	0.00	0.00	NM_145402	cDNA sequence BC003277 (BC003277)
205	2.23	1.09E-02	0.56	0.15	0.01	0.51	NM_026416	S100 calcium binding protein A16 (S100a16)
206	2.24	1.09E-02	0.43	0.27	0.00	0.03	NM_007393	actin, beta, cytoplasmic (Actb)
207	2.26	1.09E-02	0.50	-0.23	0.03	0.30	NM_175512	dehydrogenase/reductase (SDR family) member 9 (Dhrs9)
208	2.27	1.09E-02	0.41	-0.13	0.02	0.46	NM_008176	chemokine (C-X-C motif) ligand 1 (Cxcl1)
209	2.28	1.09E-02	0.35	-0.13	0.02	0.20	NM_029852	RIKEN cDNA 4921537D05 gene (4921537D05Rik)
210	2.29	1.09E-02	0.95	-0.05	0.01	0.80	NM_025393	S100 calcium binding protein A14 (S100a14)
211	2.33	1.10E-02	0.28	0.09	0.00	0.17	NM_146206	two pore segment channel 2 (Tpcn2)
212	2.37	1.12E-02	0.39	-0.16	0.00	0.08	NM_021468	
213	2.41	1.13E-02	0.29	0.04	0.00	0.49	NM_009740	B-cell leukemia/lymphoma 10 (Bcl10)
214	2.42	1.13E-02	0.28	-0.25	0.02	0.02	NM_145070	huntingtin interacting protein 1 related (Hip1r)
215	2.43	1.13E-02	0.34	-0.25	0.00	0.02	NM_026499	splicing factor, arginine/serine-rich 6 (Sfrs6)
216	2.58	1.19E-02	0.34	-0.03	0.00	0.69	NM_028810	ras homolog gene family, member E (Rhoe)
217	2.7	1.24E-02	0.35	-0.33	0.01	0.01	NM_134189	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 10 (Galnt10)
219	2.77	1.26E-02	0.29	-0.30	0.00	0.04	NM_007928	MAP/microtubule affinity-regulating kinase 2 (Mark2)

220	2.77	1.26E-02	0.36	0.41	0.05	0.02	NM_146006	lanosterol synthase (Lss)
218	2.76	1.27E-02	0.45	0.06	0.00	0.48	NM_207206	expressed sequence AI505034 (AI505034)
221	2.81	1.27E-02	0.31	0.09	0.01	0.92	NM_011803	core promoter element binding protein (Copeb)
222	2.84	1.28E-02	0.32	-0.15	0.01	0.17	NM_177729	hypothetical protein 4930477M19 (4930477M19)
223	2.85	1.28E-02	0.29	0.78	0.00	0.00	NM_080456	mitochondrial ribosomal protein S6 (Mrps6)
224	2.86	1.28E-02	0.29	-0.19	0.01	0.07	NM_027878	RIKEN cDNA 1200002N14 gene (1200002N14Rik)
225	3	1.33E-02	0.49	-0.05	0.02	0.84	NM_175003	expressed sequence AU040829 (AU040829)
226	3.05	1.35E-02	0.38	0.18	0.00	0.09	NM_023142	actin related protein 2/3 complex, subunit 1B (Arpc1b)
227	3.29	1.45E-02	0.32	0.08	0.01	0.39	XM_110503	microtubule-actin crosslinking factor 1 (Macf1)
228	3.37	1.48E-02	0.35	-0.44	0.01	0.00	NM_172395	small protein effector 1 of Cdc42 (Spec1)
229	3.4	1.48E-02	0.34	0.09	0.06	0.42	NM_022653	thimet oligopeptidase 1 (Thop1)
230	3.5	1.52E-02	0.26	-0.16	0.00	0.00	NM_011932	dual adaptor for phosphotyrosine and 3-phosphoinositides 1 (Dapp1)
231	3.54	1.53E-02	0.31	-0.03	0.00	0.67	XM_147219	phosphomannomutase 2 (Pmm2)
235	3.6	1.53E-02	0.27	0.91	0.00	0.00	NM_023655	tripartite motif protein 29 (Trim29)
232	3.56	1.54E-02	0.31	-0.24	0.02	0.19	NM_026470	spermatogenesis associated 6 (Spata6)
233	3.58	1.54E-02	0.82	0.17	0.04	0.63	NM_009610	actin, gamma 2, smooth muscle, enteric (Actg2)
234	3.59	1.54E-02	0.31	0.08	0.02	0.31	XM_138397	
236	3.69	1.56E-02	0.28	0.23	0.01	0.05	XM_127766	RIKEN cDNA C030027K23 gene (C030027K23Rik)
237	3.72	1.57E-02	0.30	0.01	0.01	0.79	NM_010194	feline sarcoma oncogene (Fes)
238	3.8	1.59E-02	0.27	0.09	0.00	0.34	NM_146119	RIKEN cDNA 9130404D14 gene (9130404D14Rik)
239	3.8	1.59E-02	0.36	-0.37	0.05	0.06	NM_009886	cadherin EGF LAG seven-pass G-type receptor 1 (Celsr1)
240	3.85	1.60E-02	0.38	-0.04	0.00	0.71	NM_207677	death effector domain-containing DNA binding protein 2 (Dedd2), transcript variant 2
241	4	1.66E-02	0.26	0.14	0.00	0.18	NM_145562	RIKEN cDNA 9130213B05 gene (9130213B05Rik)
242	4.08	1.69E-02	0.35	-0.19	0.01	0.08	NM_007594	calumenin (Calu), transcript variant 1
243	4.22	1.74E-02	0.55	0.27	0.02	0.14	NM_031159	apolipoprotein B editing complex 1 (Apobec1)
244	4.35	1.78E-02	0.31	-0.44	0.01	0.00	NM_053246	downstream of tyrosine kinase 4 (Dok4)
245	4.35	1.78E-02	0.32	-0.04	0.00	0.70	NM_172415	RIKEN cDNA 2810441C07 gene (2810441C07Rik)
246	4.54	1.85E-02	0.32	-0.17	0.01	0.01	NM_011216	protein tyrosine phosphatase, receptor type, O (Ptpro)
250	4.66	1.85E-02	0.42	-0.52	0.03	0.03	NM_009982	cathepsin C (Ctsc)
251	4.66	1.85E-02	0.33	-0.16	0.02	0.31	NM_022317	solute carrier family 28 (sodium-coupled nucleoside transporter), member 3 (Slc28a3)
252	4.67	1.85E-02	0.32	-0.37	0.02	0.00	NM_008446	kinesin family member 4 (Kif4)
248	4.65	1.87E-02	0.29	0.20	0.00	0.08	NM_009951	insulin-like growth factor 2, binding protein 1 (Igf2bp1)
249	4.65	1.87E-02	0.33	-0.10	0.10	0.60	NM_023214	solute carrier family 30 (zinc transporter), member 7 (Slc30a7)
247	4.64	1.88E-02	0.27	0.16	0.00	0.13	NM_016920	ATPase, H+ transporting, lysosomal V0 subunit a isoform 1 (Atp6v0a1)
253	4.91	1.94E-02	0.46	-0.06	0.01	0.70	NM_027652	DNA segment, Chr 5, Wayne State University 178, expressed (D5Wsu178e)
254	5.03	1.98E-02	0.32	0.02	0.04	0.82	NM_133819	protein phosphatase 1, regulatory (inhibitor) subunit 15b (Ppp1r15b)
255	5.23	2.05E-02	0.31	-0.03	0.06	0.88	NM_009397	tumor necrosis factor, alpha-induced protein 3 (Tnfaip3)
256	5.46	2.13E-02	0.66	-0.56	0.11	0.18	NM_009252	serine (or cysteine) proteinase inhibitor, clade A, member 3N (Serpina3n)
257	5.69	2.21E-02	0.35	-0.18	0.01	0.08	NM_024457	RAS related protein 1b (Rap1b)
258	5.72	2.22E-02	0.27	0.11	0.01	0.09	NM_009112	S100 calcium binding protein A10 (calpactin) (S100a10)
259	5.74	2.22E-02	0.29	-0.21	0.01	0.04	NM_025374	glyoxalase 1 (Glo1)
260	5.78	2.22E-02	0.33	-0.39	0.00	0.00	NM_033572	Williams-Beuren syndrome chromosome region 16 homolog (human) (Wbscr16)
261	5.86	2.25E-02	0.35	-0.39	0.04	0.08	NM_010739	lymphocyte antigen 64 (Ly64)
264	6.02	2.28E-02	0.28	0.01	0.03	0.85	NM_007891	E2F transcription factor 1 (E2f1)
265	6.03	2.28E-02	0.27	-0.30	0.01	0.01	NM_133803	dipeptidylpeptidase 3 (Dpp3)
263	6.02	2.29E-02	0.33	-0.03	0.03	0.72	NM_173395	hypothetical protein 4832406C22 (4832406C22)

262	6.02	2.30E-02	0.26	0.01	0.00	0.83	NM_009502	vinculin (Vcl)
266	6.38	2.40E-02	0.26	0.13	0.01	0.09	NM_013685	transcription factor 4 (Tcf4)
267	6.54	2.45E-02	0.27	-0.01	0.01	0.86	NM_007982	PTK2 protein tyrosine kinase 2 (Ptk2)
268	6.56	2.45E-02	0.32	-0.14	0.02	0.33	NM_011498	basic helix-loop-helix domain containing, class B2 (Bhlhb2)
269	6.62	2.46E-02	0.29	-0.14	0.04	0.30	NM_011182	pleckstrin homology, Sec7 and coiled-coil domains 3 (Pscd3)
270	6.66	2.47E-02	0.44	-0.07	0.00	0.49	NM_146217	alanyl-tRNA synthetase (Aars)
271	6.92	2.55E-02	0.56	-0.33	0.01	0.02	NM_009794	calpain 2 (Capn2)
272	7	2.57E-02	0.37	0.09	0.02	0.42	NM_018871	3-monooxgenase/tryptophan 5-monooxgenase activation protein, gamma polypeptide (Ywhag)
273	7.1	2.60E-02	0.26	-0.03	0.00	0.48	NM_031170	keratin complex 2, basic, gene 8 (Krt2-8)
274	7.16	2.61E-02	0.39	-0.32	0.01	0.01	NM_138952	receptor (TNFRSF)-interacting serine-threonine kinase 2 (Ripk2)
275	7.53	2.74E-02	0.52	-0.31	0.05	0.21	NM_130886	caspase recruitment domain family, member 14 (Card14)
276	7.76	2.81E-02	0.35	-0.12	0.02	0.36	XM_130985	
277	7.78	2.81E-02	0.35	0.09	0.16	0.69	NM_008885	peripheral myelin protein (Pmp22)
278	7.9	2.84E-02	0.28	-0.38	0.00	0.00	NM_028023	cell division cycle associated 4 (Cdca4)
279	8	2.87E-02	0.46	-0.07	0.11	0.88	NM_028031	zinc finger, DHHC domain containing 13 (Zdhhc13)
280	8.06	2.88E-02	0.32	-0.20	0.02	0.12	NM_139198	placenta-specific 8 (Plac8)
281	8.11	2.89E-02	0.24	0.16	0.00	0.01	NM_174850	RIKEN cDNA A930021H16 gene (A930021H16Rik)
283	8.3	2.93E-02	0.37	-0.14	0.02	0.29	NM_028965	sorting nexin 11 (Snx11)
282	8.3	2.94E-02	0.25	-0.10	0.00	0.08	NM_178884	expressed sequence AW822216 (AW822216)
284	8.34	2.94E-02	0.24	0.04	0.01	0.49	NM_008556	phosphoprotein enriched in astrocytes 15 (Pea15)
286	8.5	2.97E-02	0.33	0.23	0.03	0.22	NM_008808	platelet derived growth factor, alpha (Pdgfa)
285	8.49	2.98E-02	1.07	0.16	0.07	0.59	NM_010742	lymphocyte antigen 6 complex, locus D (Ly6d)
287	8.6	3.00E-02	0.51	-0.13	0.03	0.48	XM_127496	3-hydroxy-3-methylglutaryl-Coenzyme A reductase (Hmgcr)
288	8.87	3.08E-02	0.34	-0.06	0.01	0.56	NM_009627	adrenomedullin (Adm)
289	9.12	3.16E-02	0.26	-0.27	0.00	0.01	NM_009045	v-rel reticuloendotheliosis viral oncogene homolog A (avian) (Rela)
290	9.21	3.17E-02	0.25	-0.14	0.01	0.06	NM_011313	S100 calcium binding protein A6 (calcyclin) (S100a6)
291	9.87	3.39E-02	0.36	-0.10	0.03	0.58	NM_144862	LIM and senescent cell antigen like domains 2 (Lims2)
292	10.01	3.43E-02	0.24	-0.01	0.00	0.91	NM_133801	general transcription factor IIF, polypeptide 1 (Gtf2f1)
293	10.27	3.50E-02	0.23	-0.18	0.03	0.08	NM_146191	leucine-rich repeat kinase 1 (Lrrk1)
294	10.66	3.63E-02	0.26	-0.30	0.01	0.01	NM_183016	Cdc42 binding protein kinase beta (Cdc42bpb)
295	10.93	3.70E-02	0.35	-0.10	0.10	0.66	NM_008105	glucosaminyl (N-acetyl) transferase 2, I-branching enzyme (Gcnt2), transcript variant 3
296	10.97	3.71E-02	0.24	-0.03	0.00	0.21	NM_174997	cDNA sequence BC043098 (BC043098)
297	11.01	3.71E-02	0.26	0.24	0.02	0.03	NM_007871	dynamin 2 (Dnm2)
298	11.12	3.73E-02	0.26	-0.10	0.01	0.16	NM_018872	DNA segment, Chr 1, Brigham & Womens Genetics 0491 expressed (D1Bwg0491e)
299	11.39	3.81E-02	0.44	-0.39	0.00	0.01	NM_007875	dolichyl-phosphate (UDP-N-acetylglucosamine) acetylglucosaminephosphotransferase 1 (Dpagt1)
300	11.63	3.88E-02	0.27	-0.15	0.01	0.18	NM_010581	CD47 antigen (Rh-related antigen, integrin-associated signal transducer) (Cd47)
301	12.38	4.11E-02	0.32	0.07	0.01	0.47	XM_203312	syntaxin 11 (Stx11)
302	12.82	4.25E-02	0.32	0.16	0.02	0.32	NM_010052	delta-like 1 homolog (Drosophila) (Dlk1)
303	13.04	4.30E-02	0.27	-0.09	0.02	0.31	NM_148929	solute carrier family 9 (sodium/hydrogen exchanger), member 8 (Slc9a8), transcript variant 1
304	13.11	4.31E-02	0.24	-0.05	0.00	0.36	NM_019987	intestinal cell kinase (Ick)
305	13.25	4.35E-02	0.24	-0.01	0.01	0.86	NM_010579	integrin beta 4 binding protein (Itgb4bp)
306	13.45	4.40E-02	0.28	-0.28	0.06	0.06	NM_144904	ROD1 regulator of differentiation 1 (S. pombe) (Rod1)
307	13.6	4.43E-02	0.24	-0.18	0.00	0.00	NM_138673	stabilin 2 (Stab2)
309	13.75	4.45E-02	0.34	0.41	0.01	0.00	NM_008135	solute carrier family 6 (neurotransmitter transporter, glycine), member 9 (Slc6a9)
310	13.79	4.45E-02	0.23	-0.31	0.01	0.00	NM_022993	low-density lipoprotein receptor-related protein 10 (Lrp10)
308	13.74	4.46E-02	0.29	-0.22	0.00	0.08	NM_020042	molybdenum cofactor synthesis 1 (Mocs1), transcript variant 1

311	13.95	4.49E-02	0.23	-0.27	0.00	0.01	NM_016742	cell division cycle 37 homolog (S. cerevisiae) (Cdc37)
312	14.27	4.57E-02	0.40	0.13	0.02	0.35	NM_010664	keratin complex 1, acidic, gene 18 (Krt1-18)
313	14.36	4.57E-02	0.35	0.10	0.00	0.39	XM_139474	activating transcription factor 4 (Atf4)
314	14.36	4.57E-02	0.29	-0.09	0.01	0.15	NM_134131	tumor necrosis factor, alpha-induced protein 8 (Tnfaip8)
315	14.62	4.64E-02	0.38	0.23	0.01	0.15	XM_134537	RIKEN cDNA 2310061F22 gene (2310061F22Rik)
318	14.91	4.67E-02	0.42	0.26	0.03	0.15	NM_175270	RIKEN cDNA 5730467H21 gene (5730467H21Rik)
319	14.91	4.67E-02	0.24	0.05	0.04	0.58	NM_028733	protein kinase C and casein kinase substrate in neurons 3 (Pacsin3)
317	14.89	4.70E-02	0.24	0.11	0.00	0.25	NM_022009	flightless I homolog (Drosophila) (Fliih)
320	15.04	4.70E-02	0.27	-0.36	0.04	0.01	NM_029554	RIKEN cDNA 0610040J01 gene (0610040J01Rik)
321	15.07	4.70E-02	0.34	-0.29	0.01	0.01	NM_011715	WD repeat domain 1 (Wdr1)
316	14.87	4.71E-02	0.27	-0.13	0.10	0.40	NM_008567	minichromosome maintenance deficient 6 (MIS5 homolog, S. pombe) (S. cerevisiae) (Mcm6)
322	15.3	4.75E-02	0.24	-0.24	0.00	0.01	NM_080553	inositol 1,4,5-triphosphate receptor 3 (Itpr3)
323	15.5	4.80E-02	0.25	-0.07	0.02	0.42	NM_134099	F-box only protein 4 (Fbxo4)
324	15.54	4.80E-02	0.22	0.19	0.04	0.29	NM_053072	FYVE, RhoGEF and PH domain containing 6 (Fgd6)
325	15.64	4.81E-02	0.24	0.06	0.03	0.70	NM_007924	elongation factor RNA polymerase II (Ell)
326	16.17	4.96E-02	0.45	-0.24	0.07	0.28	NM_008565	minichromosome maintenance deficient 4 homolog (S. cerevisiae) (Mcm4)
327	16.31	4.99E-02	0.28	-0.23	0.05	0.03	NM_010838	microtubule-associated protein tau (Mapt)
328	16.35	4.99E-02	0.56	0.07	0.06	0.67	XM_124389	chloride intracellular channel 4 (mitochondrial) (Clic4)