Supplemental Table 2A. Genes with at least 2 fold change in expression in TRα knockout tadpoles compared to wild type ones.

2-fold change (DOWN)

No	Gene ID	log2FoldChange	padj	Gene Symbol	Gene Name	Ensemble_Human ID
1	ENSXETG00000026601	-5.721777792	5.39E-91	gsto1	glutathione S	ENSG00000065621,ENSG00
2	ENSXETG00000024078	-5.033326333	2.41E-96	hsp70	heat shock 70	ENSG00000173110,ENSG00
3	ENSXETG00000008828	-4.672268967	2.87E-104	hspa1b	heat shock pr	ENSG00000173110,ENSG00
4	ENSXETG00000001746	-4.532370961	3.46E-54	slc39a2	solute carrier	ENSG00000165794
5	ENSXETG00000006714	-4.359893772	7.40E-48	hspa1l	heat shock pr	ENSG00000173110,ENSG00
6	ENSXETG00000022690	-4.236496299	2.66E-41	cldn18	claudin 18	ENSG00000066405
7	ENSXETG00000012851	-4.052088283	1.21E-38	vsig1	V-set and imr	ENSG00000101842
8	ENSXETG00000016802	-4.032757154	1.42E-35	nkx6-3	NK6 homeob	ENSG00000165066
9	ENSXETG00000005932	-3.909182833	5.22E-83	ctse	cathepsin E	ENSG00000196188
10	ENSXETG00000030246	-3.76628799	0	ENSXETG00000030246		ENSG00000016602,ENSG00
11	ENSXETG00000023614	-3.622049039	2.45E-27	nkx6-2	NK6 homeob	ENSG00000148826
12	ENSXETG00000005947	-3.502350575	1.15E-26	slc26a9	solute carrier	ENSG00000174502
13	ENSXETG00000000506	-3.405784771	0	clca1	chloride chan	ENSG00000016602,ENSG00
14	ENSXETG00000008818	-3.253973364	7.23E-21	ENSXETG00000008818		ENSG00000156413,ENSG00
15	ENSXETG00000025827	-3.223531004	3.41E-27	fshr	follicle stimul	ENSG00000170820
16	ENSXETG00000024186	-3.178353943	2.48E-46	TUBB1		ENSG00000101162
17	ENSXETG00000010251	-3.107024137	6.47E-61	hsp90aa1.1	heat shock pr	ENSG00000080824
18	ENSXETG00000004623	-3.043584451	1.57E-34	syt8	synaptotagmi	ENSG00000149043
19	ENSXETG00000025489	-3.033840288	3.25E-52	fgf19	fibroblast gro	ENSG00000162344
20	ENSXETG00000006294	-2.962243857	2.27E-17	ENSXETG00000006294		ENSG00000005001,ENSG00
21	ENSXETG00000011179	-2.930725685	0	ptger3	prostaglandin	ENSG00000050628
22	ENSXETG00000016042	-2.798346945	9.68E-36	tm4sf1	transmembra	ENSG00000169908
23	ENSXETG00000023050	-2.704843766	4.11E-34	sqle	squalene epo	ENSG00000104549
24	ENSXETG00000003335	-2.649780947	3.01E-11	slc7a11	solute carrier	ENSG00000151012
25	ENSXETG00000023898	-2.644309136	0	duox2	dual oxidase 2	ENSG00000137857,ENSG00
26	ENSXETG00000021814	-2.509646098	1.61E-15	slc16a12	solute carrier	ENSG00000152779
27	ENSXETG00000004371	-2.502560816	8.54E-144	tspan1	tetraspanin 1	ENSG00000117472
28	ENSXETG00000031120	-2.462554027	2.24E-86	CH25H		ENSG00000138135
29	ENSXETG00000012656	-2.375860139	1.29E-09	vsig2	V-set and imr	ENSG00000019102
30	ENSXETG00000025814	-2.353196425	4.72E-18	ENSXETG00000025814		ENSG00000109670
31	ENSXETG00000018960	-2.294315565	4.45E-13	ENSXETG00000018960		ENSG00000215182
32	ENSXETG00000031224	-2.264516143	1.80E-08	ENSXETG00000031224		ENSG00000187492
33	ENSXETG00000026537	-2.2564676	0	gadd45g	growth arrest	ENSG00000130222
34	ENSXETG00000015719	-2.254695634	4.05E-10	odf3	outer dense f	ENSG00000177989,ENSG00
35	ENSXETG00000000396	-2.157921787	6.39E-30	MGC108470		ENSG00000160339,ENSG00
36	ENSXETG00000001262	-2.146657405	1.22E-30	slc16a6	solute carrier	ENSG00000108932
37	ENSXETG00000021153	-2.123298073	4.42E-07	grp	gastrin releas	ENSG00000134443
38	ENSXETG00000006170	-2.106673442	3.20E-07	ccdc13	coiled-coil do	ENSG00000244607
39	ENSXETG00000027309	-2.093516766	6.35E-13	apold1	apolipoprotei	ENSG00000178878
40	ENSXETG00000012114	-2.072064556	0	tnip2	TNFAIP3 inter	ENSG00000168884
41	ENSXETG00000004553	-2.051623821	1.09E-06	armc4	armadillo rep	ENSG00000169126
42	ENSXETG00000018280	-2.04323538	4.28E-07	ENSXETG00000018280		ENSG00000132703,ENSG00
43	ENSXETG00000016627	-2.029587041	2.17E-18	EML5		ENSG00000165521
44	ENSXETG00000025129	-1.988979147	3.64E-07	saxo2	stabilizer of a	ENSG00000188659
45	ENSXETG00000008728	-1.956496593	2.34E-70	sptssb	serine palmito	ENSG00000196542
46	ENSXETG00000019383	-1.926189956	6.96E-17	lyg2	lysozyme G-li	ENSG00000185674,ENSG00
47	ENSXETG00000007373	-1.916988584	7.62E-31	azin2	antizyme inhi	ENSG00000142920
48	ENSXETG00000010955	-1.900208265	8.07E-06	sox21	SRY-box 21	ENSG00000125285
49	ENSXETG00000008703	-1.879725809	1.20E-179	mmp9	matrix metall	ENSG00000100985,ENSG00
50	ENSXETG00000019051	-1.877861103	1.24E-135	klf9	Kruppel-like f	ENSG00000119138
51	ENSXETG00000027136	-1.865716415	7.69E-14	ENSXETG00000027136		ENSG00000109670
52	ENSXETG00000004863	-1.864227325	1.11E-05	efcab6	EF-hand calci	ENSG00000186976
53	ENSXETG00000025738	-1.862596693	9.44E-86	ankrd37	ankyrin repea	ENSG00000186352
54	ENSXETG00000030596	-1.848682039	2.05E-154	ENSXETG00000030596		ENSG00000132703,ENSG00
55	ENSXETG00000012498	-1.831530646	5.39E-19	nos2	nitric oxide sy	ENSG00000007171
56	ENSXETG00000013957	-1.812769576	0	ldha	lactate dehyd	ENSG00000166796,ENSG00
57	ENSXETG00000019539	-1.798787106	1.62E-05	cfap52	cilia and flage	ENSG00000166596
58	ENSXETG00000019727	-1.798756742	2.79E-43	epx	eosinophil pe	ENSG00000005381,ENSG00
59	ENSXETG00000007216	-1.777190181	0	noxo1	NADPH oxida	ENSG00000196408
60	ENSXETG00000001882	-1.775616563	0	chst11	carbohydrate	ENSG00000171310
61	ENSXETG00000026395	-1.743171904	1.17E-37	nmral1	NmrA-like fan	ENSG00000153406
62	ENSXETG00000026292	-1.693549046	8.84E-05	sox2	SRY-box 2	ENSG00000181449
63	ENSXETG00000030029	-1.634237801	0.00012755	DNAH7		ENSG00000114841
64	ENSXETG00000009896	-1.631469251	4.79E-08	eva1c	eva-1 homolo	ENSG00000166979
65	ENSXETG00000028792	-1.616814843	0.000103532	SNORD16		ENSG00000199673
66	ENSXETG00000020878	-1.613603663	0.000119205	atp8b1	ATPase phosp	ENSG00000081923
67	ENSXETG00000006017	-1.610150332	0	errfi1	ERBB recepto	ENSG00000116285
68	ENSXETG00000003432	-1.602886518	0	cyp51a1	cytochrome P	ENSG00000001630
69	ENSXETG00000010820	-1.590991732	3.81E-05	cd200r1	CD200 recept	ENSG00000114013,ENSG00
70	ENSXETG00000013678	-1.585813747	0.000123396	NT5DC2		ENSG00000168268
71	ENSXETG00000007571	-1.577614451	5.08E-05	acan	aggrecan	ENSG00000157766
72	ENSXETG00000018955	-1.571952385	1.72E-05	nt5dc4	5'-nucleotida	ENSG00000144130
73	ENSXETG00000019369	-1.56717657	2.26E-76	XB-GENE-5914997	MGC108147	ENSG00000132703,ENSG00
74	ENSXETG00000025213	-1.545465973	0.000422106	mgp	matrix Gla pr	ENSG00000111341
75	ENSXETG00000004120	-1.542587437	4.15E-43	klf10	Kruppel-like f	ENSG00000155090
76	ENSXETG00000015911	-1.540732054	0.000427446	zp4	zona pellucid	ENSG00000149506
77	ENSXETG00000023154	-1.514017689	1.06E-11	slc9a3	solute carrier	ENSG00000066230
78	ENSXETG00000001839	-1.489068009	1.99E-13	fhdc1	FH2 domain c	ENSG00000137460
79	ENSXETG00000021408	-1.484561214	0.00048087	dnah5	dynein axone	ENSG00000039139
80	ENSXETG00000006171	-1.477167249	6.12E-81	higd1a	HIG1 hypoxia	ENSG00000181061,ENSG00
81	ENSXETG00000014481	-1.47405879	1.42E-08	gadl1	glutamate de	ENSG00000144644
82	ENSXETG00000019175	-1.453776265	2.22E-19	hsph1	heat shock pr	ENSG00000120694
83	ENSXETG00000009832	-1.451001403	7.62E-76	nipal1	NIPA-like don	ENSG00000163293
84	ENSXETG00000008127	-1.446702085	2.60E-05	npffr2	neuropeptide	ENSG00000056291
85	ENSXETG00000010535	-1.442124509	1.08E-05	phyhip	phytanoyl-Co	ENSG00000168490
86	ENSXETG00000003484	-1.431843143	4.87E-147	sulf2	sulfatase 2	ENSG00000196562
87	ENSXETG00000012286	-1.422843652	8.74E-90	cebpb	CCAAT/enhar	ENSG00000172216
88	ENSXETG00000014066	-1.406872411	1.10E-13	egr2	early growth	ENSG00000122877
89	ENSXETG00000019700	-1.374002873	7.46E-09	slc16a3	solute carrier	ENSG00000141526
90	ENSXETG00000013667	-1.365421609	5.73E-91	mknk2	MAP kinase ir	ENSG00000099875
91	ENSXETG00000000300	-1.364025472	4.11E-06	acpp	acid phospha	ENSG00000142513
92	ENSXETG00000008198	-1.361987533	0.000195748	antxr1	anthrax toxin	ENSG00000169604
93	ENSXETG00000000335	-1.361214408	5.79E-05	cdkl2	cyclin depend	ENSG00000138769
94	ENSXETG00000030515	-1.349928135	2.05E-61	ENSXETG00000030515		ENSG00000104870,ENSG00
95	ENSXETG00000014366	-1.348419248	2.78E-16	flvcr1	feline leukem	ENSG00000162769
96	ENSXETG00000012829	-1.348388962	0.000143978	dnai2	dynein axone	ENSG00000171595
97	ENSXETG00000021647	-1.321474791	1.01E-16	prtn3	proteinase 3	ENSG00000196415,ENSG00
98	ENSXETG00000030360	-1.32110926	3.39E-193	slc10a3		ENSG00000126903
99	ENSXETG00000022727	-1.318269914	0.000416024	wnt16	Wnt family m	ENSG00000002745
100	ENSXETG00000021871	-1.313171714	1.24E-280	dusp6	dual specificit	ENSG00000139318
101	ENSXETG00000003405	-1.304177962	2.63E-13	slit1	slit guidance	ENSG00000187122
102	ENSXETG00000026821	-1.303155092	0.003549184	daw1	dynein assem	ENSG00000123977
103	ENSXETG00000019001	-1.302133981	0	npc1l1	NPC1 like 1	ENSG00000015520
104	ENSXETG00000011506	-1.299493401	0.00142893	C21orf58	chromosome	ENSG00000160298
105	ENSXETG00000000522	-1.284174569	0	clca4	chloride chan	ENSG00000016602,ENSG00
106	ENSXETG00000005344	-1.283859596	0.001249484	frmpd4	FERM and PD	ENSG00000169933
107	ENSXETG00000007864	-1.279550535	3.59E-06	hey1	hes related fa	ENSG00000164683
108	ENSXETG00000003683	-1.276872017	1.43E-49	pth1r	parathyroid h	ENSG00000160801
109	ENSXETG00000004023	-1.275169878	6.45E-30	zfand2a	zinc finger, AN	ENSG00000178381
110	ENSXETG00000004118	-1.274360363	0	azin1	antizyme inhi	ENSG00000155096
111	ENSXETG00000002137	-1.272570849	0.001579982	scara3	scavenger rec	ENSG00000168077
112	ENSXETG00000013950	-1.270214105	0.004017353	ak7	adenylate kin	ENSG00000140057
113	ENSXETG00000019664	-1.262203904	1.31E-46	cyp2r1	cytochrome P	ENSG00000186104
114	ENSXETG00000003970	-1.262021875	4.64E-05	zmynd19	zinc finger MY	ENSG00000165724
115	ENSXETG00000004083	-1.260546618	1.09E-135	has1	hyaluronan sy	ENSG00000105509
116	ENSXETG00000002790	-1.250963125	1.63E-08	slc8a2	solute carrier	ENSG00000118160
117	ENSXETG00000016064	-1.249678123	0.003600531	tekt4	tektin 4	ENSG00000163060,ENSG00
118	ENSXETG00000004850	-1.249618637	0	cebpd	CCAAT/enhar	ENSG00000221869
119	ENSXETG00000030705	-1.24798362	7.12E-18	ENSXETG00000030705		ENSG00000174611
120	ENSXETG00000005880	-1.242572525	3.14E-31	hip1	huntingtin int	ENSG00000127946
121	ENSXETG00000005182	-1.24094782	0.005772986	c15orf59	chromosome	ENSG00000205363
122	ENSXETG00000025849	-1.23646003	1.75E-14	ripk3	receptor inte	ENSG00000129465
123	ENSXETG00000010527	-1.224662017	0.006543378	rsph1	radial spoke h	ENSG00000160188
124	ENSXETG00000000794	-1.216861569	6.20E-07	klhl32	kelch like fam	ENSG00000186231
125	ENSXETG00000026976	-1.206343708	0	ddit4	DNA damage	ENSG00000168209
126	ENSXETG00000007412	-1.199764083	0.0060535	dnah11	dynein axone	ENSG00000105877
127	ENSXETG00000021016	-1.199446164	9.68E-276	gstp1	glutathione S	ENSG00000084207
128	ENSXETG00000030120	-1.194103459	0.008489582	LGALS12		ENSG00000133317
129	ENSXETG00000000172	-1.190350821	3.47E-208	maf	v-maf avian m	ENSG00000178573
130	ENSXETG00000017416	-1.189939003	0.008468912	fam92b	family with se	ENSG00000153789
131	ENSXETG00000009994	-1.178817701	0.008800016	mycbpap	MYCBP assoc	ENSG00000136449
132	ENSXETG00000000078	-1.178233396	5.57E-75	cish	cytokine indu	ENSG00000114737
133	ENSXETG00000025811	-1.176697249	0.000127796	adra2b	adrenoceptor	ENSG00000274286
134	ENSXETG00000030174	-1.173891081	1.32E-05	WDR60		ENSG00000126870
135	ENSXETG00000009352	-1.169603157	2.45E-254	ldlr	low density li	ENSG00000130164
136	ENSXETG00000003124	-1.164441567	4.85E-20	rhobtb1	Rho related B	ENSG00000072422
137	ENSXETG00000025359	-1.160764785	0.01080196	spef2	sperm flagella	ENSG00000152582
138	ENSXETG00000016211	-1.158437045	2.27E-29	dhrs9	dehydrogena	ENSG00000073737
139	ENSXETG00000013449	-1.15651545	0.010443005	rsg1	REM2 and RA	ENSG00000132881
140	ENSXETG00000020322	-1.154542312	0.000379289	cfap53	cilia and flage	ENSG00000172361
141	ENSXETG00000000302	-1.153383855	1.02E-238	ganc	glucosidase, a	ENSG00000214013
142	ENSXETG00000019286	-1.148494037	9.93E-47	dnajb2	DnaJ heat sho	ENSG00000135924
143	ENSXETG00000025251	-1.142869576	0.011736774	ENSXETG00000025251		ENSG00000007174
144	ENSXETG00000014375	-1.138922378	1.89E-26	atf3	activating tra	ENSG00000162772
145	ENSXETG00000020890	-1.138492285	0.006266294	ENSXETG00000020890	interferon-ind	ENSG00000204010,ENSG00
146	ENSXETG00000003825	-1.137762196	0.01149413	nme5	NME/NM23 f	ENSG00000112981
147	ENSXETG00000025245	-1.136660263	1.51E-13	rbm20	RNA binding	ENSG00000203867
148	ENSXETG00000003329	-1.135695549	0.012174772	drc1	dynein regula	ENSG00000157856
149	ENSXETG00000007924	-1.135045837	0.000173921	epor	erythropoieti	ENSG00000187266
150	ENSXETG00000012835	-1.134260777	0.00198773	abca9	ATP binding c	ENSG00000154263,ENSG00
151	ENSXETG00000022959	-1.132240233	3.85E-12	XB-GENE-5764783	uncharacteriz	ENSG00000185198
152	ENSXETG00000005357	-1.130678302	2.68E-27	nt5dc3	5'-nucleotida	ENSG00000111696
153	ENSXETG00000012676	-1.129826758	8.73E-06	ENSXETG00000012676		ENSG00000132703,ENSG00
154	ENSXETG00000006697	-1.128778209	9.82E-238	egr1	early growth	ENSG00000120738
155	ENSXETG00000013742	-1.125852027	7.38E-30	ndrg3	NDRG family	ENSG00000103034
156	ENSXETG00000001179	-1.122644755	3.66E-10	dlg4	discs, large h	ENSG00000132535
157	ENSXETG00000023781	-1.120884245	0.000157331	c2orf50	chromosome	ENSG00000150873
158	ENSXETG00000005417	-1.119934496	0.000286564	kiaa1324l	KIAA1324-like	ENSG00000164659
159	ENSXETG00000030425	-1.119916278	0.003598695	ENSXETG00000030425		ENSG00000084207
160	ENSXETG00000026914	-1.117157763	0.001148093	ENSXETG00000026914		ENSG00000112115,ENSG00
161	ENSXETG00000009727	-1.116548901	3.92E-62	prkag1	protein kinas	ENSG00000106617
162	ENSXETG00000016838	-1.113800424	3.64E-162	hspa5	heat shock pr	ENSG00000044574
163	ENSXETG00000003301	-1.11237884	1.42E-218	ttc39b	tetratricopep	ENSG00000155158
164	ENSXETG00000010075	-1.110142013	1.92E-21	hyou1	hypoxia up-re	ENSG00000149428
165	ENSXETG00000004164	-1.107622785	1.87E-08	kif3a	kinesin family	ENSG00000131437
166	ENSXETG00000020893	-1.106510359	0.005794096	spag17	sperm associa	ENSG00000155761
167	ENSXETG00000006790	-1.104254761	5.43E-12	tctex1d1	Tctex1 domai	ENSG00000152760
168	ENSXETG00000023469	-1.104194902	0	slc34a3	solute carrier	ENSG00000198569
169	ENSXETG00000023228	-1.102766723	1.08E-80	fbxo32	F-box protein	ENSG00000156804
170	ENSXETG00000030978	-1.101478535	0.002297119	CFAP57		ENSG00000243710
171	ENSXETG00000019789	-1.100354239	6.38E-32	fam83c	family with se	ENSG00000125998
172	ENSXETG00000011482	-1.099936785	1.32E-05	slc19a1	solute carrier	ENSG00000173638
173	ENSXETG00000008794	-1.099429936	0.00679066	ENSXETG00000008794		ENSG00000127954
174	ENSXETG00000018427	-1.096923022	9.29E-05	cnnm1	cyclin and CB	ENSG00000119946
175	ENSXETG00000022138	-1.095167668	0.017346381	iqub	IQ motif and	ENSG00000164675
176	ENSXETG00000004835	-1.093002827	0.006616222	efhc2	EF-hand dom	ENSG00000183690
177	ENSXETG00000014934	-1.091935403	0.010537117	catip	ciliogenesis a	ENSG00000158428
178	ENSXETG00000000655	-1.088222984	0.001382861	trim50	tripartite mot	ENSG00000146755,ENSG00
179	ENSXETG00000031311	-1.085948261	0.016086125	ENSXETG00000031311		ENSG00000171931,ENSG00
180	ENSXETG00000030447	-1.083217161	2.41E-29	ENSXETG00000030447		ENSG00000184545
181	ENSXETG00000000914	-1.083156449	0	msmo1		ENSG00000052802
182	ENSXETG00000027390	-1.074032417	0.014764674	znf474	zinc finger pr	ENSG00000164185
183	ENSXETG00000010989	-1.073593599	2.00E-08	st3gal1	ST3 beta-gala	ENSG00000008513
184	ENSXETG00000027545	-1.073235478	0.019836243	cldn6.1	claudin 6, ger	ENSG00000165215,ENSG00
185	ENSXETG00000008299	-1.069570621	0.019998326	dnah2	dynein, axone	ENSG00000183914
186	ENSXETG00000007393	-1.069477503	5.07E-18	gpnmb	glycoprotein	ENSG00000136235
187	ENSXETG00000001940	-1.068977334	1.75E-38	smyd1	SET and MYN	ENSG00000115593
188	ENSXETG00000021994	-1.066333798	0.017317023	pip5kl1	phosphatidyli	ENSG00000167103
189	ENSXETG00000019549	-1.062748401	0.021372045	foxj1	forkhead box	ENSG00000129654
190	ENSXETG00000007668	-1.062272919	7.48E-32	aars	alanyl-tRNA s	ENSG00000090861
191	ENSXETG00000011465	-1.059197992	7.49E-151	zc3h12a	zinc finger CC	ENSG00000163874
192	ENSXETG00000002899	-1.056982557	0	zfp36	ZFP36 ring fin	ENSG00000128016
193	ENSXETG00000002108	-1.052941098	7.63E-33	arrdc4	arrestin doma	ENSG00000140450
194	ENSXETG00000027407	-1.05046033	4.15E-12	steap4	STEAP4 meta	ENSG00000127954
195	ENSXETG00000013055	-1.04959278	5.16E-07	plod1	procollagen-l	ENSG00000083444
196	ENSXETG00000029957	-1.048090875	4.70E-19	bcl2l11		ENSG00000153094
197	ENSXETG00000018683	-1.04472893	1.75E-61	ENSXETG00000018683		ENSG00000179148,ENSG00
198	ENSXETG00000018511	-1.041891886	9.00E-22	srf	serum respon	ENSG00000112658
199	ENSXETG00000026755	-1.040059996	0.006851603	ENSXETG00000026755		ENSG00000177238
200	ENSXETG00000016981	-1.037391405	0.024587128	lrrc9	leucine rich r	ENSG00000131951
201	ENSXETG00000004234	-1.029462079	0.000196935	csrnp1	cysteine-serir	ENSG00000144655
202	ENSXETG00000008633	-1.027583973	7.76E-05	mcoln3	mucolipin 3	ENSG00000055732
203	ENSXETG00000000804	-1.025106239	1.42E-157	nfil3	nuclear facto	ENSG00000165030
204	ENSXETG00000023749	-1.024414444	0.000119567	gpr20	G protein-cou	ENSG00000204882

2-fold change (UP)

No	Gene ID	log2FoldChange	padj	Gene Symbol	Gene Name	Ensemble_Human ID
1	ENSXETG00000005714	9.211697492	0	fabp6	fatty acid bin	ENSG00000170231
2	ENSXETG00000017955	5.48253786	6.62E-62	tmigd1	transmembra	ENSG00000182271
3	ENSXETG00000025667	5.057207724	3.73E-119	hbg1	hemoglobin s	ENSG00000213934,ENSG00000213931,ENSG00000196565
4	ENSXETG00000025664	4.712624611	9.58E-124	hba1	hemoglobin s	ENSG00000206172,ENSG00000086506,ENSG00000188536
5	ENSXETG00000030759	4.251606905	8.33E-147	rtp3		ENSG00000163825,ENSG00000175077,ENSG00000136514,ENSG00000198471
6	ENSXETG00000013747	3.768325286	1.11E-158	ca1	carbonic anhy	ENSG00000133742
7	ENSXETG00000014607	3.522114156	0	calb1	calbindin 1	ENSG00000104327
8	ENSXETG00000019108	2.923354392	2.30E-16	ckm	creatine kinas	ENSG00000104879
9	ENSXETG00000017467	2.764008446	3.24E-12	krt15	keratin 15, ty	ENSG00000171346,ENSG00000171401
10	ENSXETG00000000954	2.723210118	0	slc34a2	solute carrier	ENSG00000157765
11	ENSXETG00000023301	2.661055486	2.32E-192	gtse1	G2 and S-pha	ENSG00000075218
12	ENSXETG00000016972	2.638038455	5.49E-19	kl	klotho	ENSG00000133116
13	ENSXETG00000003527	2.321618503	1.29E-41	rrm2.1	ribonucleotid	ENSG00000171848
14	ENSXETG00000015130	2.306972019	2.03E-37	cacna1s	calcium chan	ENSG00000081248
15	ENSXETG00000026988	2.210502495	2.21E-30	prr11	proline rich 1	ENSG00000068489
16	ENSXETG00000003358	2.203360483	2.61E-12	stmn3	stathmin 3	ENSG00000197457
17	ENSXETG00000018739	2.155346114	1.63E-182	cdo1	cysteine diox	ENSG00000129596
18	ENSXETG00000022442	2.138999654	1.61E-76	mal	mal, T-cell dif	ENSG00000172005
19	ENSXETG00000014394	2.117288744	6.40E-23	dtl	denticleless E	ENSG00000143476
20	ENSXETG00000010800	2.115549465	0	ENSXETG00000010800	gastrula zinc f	ENSG00000128311
21	ENSXETG00000020438	2.112274081	1.91E-33	pbk	PDZ binding k	ENSG00000168078
22	ENSXETG00000023090	2.111885667	2.53E-45	ncaph2	non-SMC con	ENSG00000025770
23	ENSXETG00000014770	2.103385467	4.45E-178	tm4sf20	transmembra	ENSG00000168955
24	ENSXETG00000021362	2.093051001	1.32E-48	top2a	DNA topoisor	ENSG00000131747
25	ENSXETG00000006917	2.088840204	3.86E-07	myl1	myosin light c	ENSG00000168530
26	ENSXETG00000031284	2.088124139	2.93E-08	ENSXETG00000031284		ENSG00000090512
27	ENSXETG00000008002	2.088057412	1.77E-07	grin2a	glutamate rec	ENSG00000183454
28	ENSXETG00000006735	2.053441703	3.83E-75	incenp	inner centron	ENSG00000149503
29	ENSXETG00000015421	1.979835931	1.80E-41	cks1b	CDC28 protei	ENSG00000173207
30	ENSXETG00000020442	1.975264167	1.44E-23	esco2	establishmen	ENSG00000171320
31	ENSXETG00000003629	1.973617345	1.34E-17	ddx11	DEAD/H-box	ENSG00000013573
32	ENSXETG00000023342	1.965406971	1.15E-172	agt	angiotensino	ENSG00000135744
33	ENSXETG00000024534	1.945099106	1.70E-06	mylpf	myosin light c	ENSG00000180209
34	ENSXETG00000000343	1.93626588	5.47E-44	anln	anillin actin b	ENSG00000011426
35	ENSXETG00000025052	1.932794188	0	krt19	keratin 19	ENSG00000171345
36	ENSXETG00000018602	1.92949337	8.74E-15	cdc45	cell division c	ENSG00000093009
37	ENSXETG00000009695	1.927450861	5.95E-06	atp2a1	ATPase, Ca++	ENSG00000196296
38	ENSXETG00000003123	1.901148134	7.78E-91	cdk1	cyclin-depend	ENSG00000170312
39	ENSXETG00000004436	1.898651735	2.36E-19	e2f8	E2F transcript	ENSG00000129173
40	ENSXETG00000016818	1.892865369	8.90E-06	foxd1	forkhead box	ENSG00000186564,ENSG00000251493
41	ENSXETG00000007162	1.891540981	6.52E-24	ncapg2	non-SMC con	ENSG00000146918
42	ENSXETG00000024067	1.882172596	5.64E-10	otoa	otoancorin	ENSG00000155719
43	ENSXETG00000030117	1.880478947	9.90E-48	ENSXETG00000030117		ENSG00000111665
44	ENSXETG00000012144	1.866243891	5.59E-13	fam83d	family with se	ENSG00000101447
45	ENSXETG00000010655	1.864648056	2.00E-08	col2a1	collagen, type	ENSG00000139219
46	ENSXETG00000027499	1.861665773	3.21E-66	nusap1	nucleolar and	ENSG00000137804
47	ENSXETG00000001619	1.861630832	2.84E-15	myom1	myomesin 1	ENSG00000101605
48	ENSXETG00000012376	1.859222155	3.18E-32	depdc1	DEP domain c	ENSG00000024526
49	ENSXETG00000021140	1.85640165	4.49E-18	cyp1a1	cytochrome P	ENSG00000140505,ENSG00000140465
50	ENSXETG00000027925	1.844881864	9.85E-23	donson	downstream	ENSG00000159147
51	ENSXETG00000022448	1.844632182	9.31E-53	bub1	BUB1 mitotic	ENSG00000169679
52	ENSXETG00000026059	1.837090875	7.94E-18	ccnb2	cyclin B2	ENSG00000157456
53	ENSXETG00000001866	1.824953287	1.66E-05	itih2	inter-alpha-tr	ENSG00000151655
54	ENSXETG00000015449	1.815076597	1.42E-64	prc1	protein regula	ENSG00000198901
55	ENSXETG00000025008	1.812165598	4.46E-12	nek2	NIMA-related	ENSG00000117650
56	ENSXETG00000031127	1.790511339	6.24E-06	ENSXETG00000031127		ENSG00000106853
57	ENSXETG00000002100	1.785060513	1.75E-16	mad2l1	mitotic arrest	ENSG00000164109
58	ENSXETG00000008652	1.783182578	7.11E-09	fam107a	family with se	ENSG00000168309
59	ENSXETG00000006551	1.780560304	3.02E-23	melk	maternal emb	ENSG00000165304
60	ENSXETG00000002167	1.77800256	4.76E-22	cdca8	cell division c	ENSG00000134690
61	ENSXETG00000022597	1.776307647	6.66E-53	ccnb3	cyclin B3	ENSG00000147082
62	ENSXETG00000006660	1.764193479	1.21E-09	ccne2	cyclin E2	ENSG00000175305
63	ENSXETG00000017069	1.744826163	3.86E-33	shcbp1	SHC SH2-dom	ENSG00000171241
64	ENSXETG00000026722	1.734777598	3.87E-05	ambp	alpha-1-micro	ENSG00000106927
65	ENSXETG00000020384	1.732820736	4.75E-25	iqgap3	IQ motif cont	ENSG00000183856
66	ENSXETG00000025623	1.718605633	1.78E-47	cdc20	cell division c	ENSG00000117399
67	ENSXETG00000009114	1.713317868	9.38E-10	ucma	upper zone o	ENSG00000165623
68	ENSXETG00000027375	1.683394063	4.65E-08	gcm1	glial cells mis	ENSG00000137270
69	ENSXETG00000012183	1.683093746	1.76E-39	cit	citron rho-int	ENSG00000122966
70	ENSXETG00000008497	1.67654492	7.80E-25	kif15	kinesin family	ENSG00000163808
71	ENSXETG00000025341	1.673206844	8.13E-19	krt12	keratin 12	ENSG00000187242
72	ENSXETG00000012213	1.67165615	2.91E-42	kif11	kinesin family	ENSG00000138160
73	ENSXETG00000010344	1.66630066	1.64E-37	plk1	polo like kina	ENSG00000166851
74	ENSXETG00000030969	1.653558207	3.27E-16	ENSXETG00000030969		ENSG00000135917
75	ENSXETG00000013598	1.639997148	1.61E-17	kif2c	kinesin family	ENSG00000142945
76	ENSXETG00000012149	1.627624823	0.000182245	agxt	alanine-glyox	ENSG00000172482
77	ENSXETG00000016264	1.627252118	0	ENSXETG00000016264		ENSG00000168060
78	ENSXETG00000013383	1.618725907	2.61E-39	racgap1	Rac GTPase a	ENSG00000161800
79	ENSXETG00000001938	1.613652733	0	fabp1	fatty acid bin	ENSG00000163586
80	ENSXETG00000020708	1.610363562	2.55E-39	ckap2	cytoskeleton	ENSG00000136108
81	ENSXETG00000008946	1.606900651	8.02E-11	ska1	spindle and k	ENSG00000154839
82	ENSXETG00000009955	1.606794074	9.73E-38	dennd1b	DENN/MADD	ENSG00000066279
83	ENSXETG00000022574	1.60381687	1.86E-11	ercc6l	excision repa	ENSG00000186871
84	ENSXETG00000013014	1.579996755	1.98E-16	chaf1b	chromatin as	ENSG00000159259
85	ENSXETG00000014841	1.578078611	1.25E-48	habp4	hyaluronan b	ENSG00000130956
86	ENSXETG00000006721	1.577244272	2.10E-34	kif20a	kinesin family	ENSG00000112984
87	ENSXETG00000001315	1.569697277	1.57E-08	foxm1	forkhead box	ENSG00000111206
88	ENSXETG00000011389	1.564026209	1.31E-08	rad51ap1	RAD51 associ	ENSG00000111247
89	ENSXETG00000010855	1.562952471	3.64E-16	cks2	CDC28 protei	ENSG00000123975
90	ENSXETG00000003156	1.560362537	1.27E-18	tyms	thymidylate s	ENSG00000176890
91	ENSXETG00000008592	1.554135721	6.67E-05	otc	ornithine carb	ENSG00000036473
92	ENSXETG00000026373	1.553737024	4.63E-18	KIF20B		ENSG00000138182
93	ENSXETG00000026473	1.553083263	3.36E-10	fam64a	PICALM intera	ENSG00000129195
94	ENSXETG00000010209	1.541936982	1.26E-30	smc2	structural ma	ENSG00000136824
95	ENSXETG00000009983	1.540304235	6.75E-16	birc5.2	baculoviral IA	ENSG00000089685
96	ENSXETG00000020013	1.540236033	1.79E-10	cenpl	centromere p	ENSG00000120334
97	ENSXETG00000030684	1.525376677	0.00033164	ENSXETG00000030684		ENSG00000051620
98	ENSXETG00000015731	1.524576852	3.47E-23	dlgap5	discs large ho	ENSG00000126787
99	ENSXETG00000012353	1.522121307	4.19E-14	bora	bora, aurora k	ENSG00000136122
100	ENSXETG00000026715	1.520248708	9.34E-55	spef1	sperm flagella	ENSG00000144063
101	ENSXETG00000009626	1.515914454	8.65E-11	cenpi	centromere p	ENSG00000102384
102	ENSXETG00000022422	1.513146525	9.71E-09	tmprss15	transmembra	ENSG00000154646
103	ENSXETG00000001016	1.507272107	1.61E-25	ccna2	cyclin A2	ENSG00000145386
104	ENSXETG00000018184	1.505200826	5.04E-07	cyp26a1	cytochrome P	ENSG00000095596
105	ENSXETG00000025267	1.503525251	0.000134296	ybx2	Y-box binding	ENSG00000006047
106	ENSXETG00000007906	1.498849211	6.62E-27	hmmr	hyaluronan-m	ENSG00000072571
107	ENSXETG00000021319	1.49157927	4.92E-23	cenpe	centromere p	ENSG00000138778
108	ENSXETG00000025507	1.490262199	0	ethe1	ethylmalonic	ENSG00000105755
109	ENSXETG00000024394	1.486992312	1.06E-14	cdc6	cell division c	ENSG00000094804
110	ENSXETG00000023124	1.485998173	3.22E-17	cenpf	centromere p	ENSG00000117724
111	ENSXETG00000017882	1.477898348	0.0006634	fbxo43	F-box protein	ENSG00000156509
112	ENSXETG00000026284	1.474476209	1.45E-87	GDPD3		ENSG00000102886
113	ENSXETG00000016354	1.466176699	4.24E-49	ccnb1.2	cyclin B1	ENSG00000134057
114	ENSXETG00000003731	1.462019266	5.55E-06	rbp4	retinol bindin	ENSG00000138207
115	ENSXETG00000005927	1.446900059	3.53E-134	ENSXETG00000005927		ENSG00000091137
116	ENSXETG00000009097	1.445572702	3.54E-15	aurkb	aurora kinase	ENSG00000105146,ENSG00000178999
117	ENSXETG00000020840	1.439887116	1.10E-16	ndc80	NDC80 kineto	ENSG00000080986
118	ENSXETG00000023596	1.434796479	3.99E-18	ect2	epithelial cell	ENSG00000114346
119	ENSXETG00000007561	1.428989715	0.001009426	cat.1	catalase, gene	ENSG00000121691
120	ENSXETG00000009446	1.428221659	0.000693186	suox	sulfite oxidas	ENSG00000139531
121	ENSXETG00000013365	1.427288803	1.03E-71	rfesd	Rieske (Fe-S)	ENSG00000175449
122	ENSXETG00000010329	1.425422043	5.05E-147	decr2	2,4-dienoyl-C	ENSG00000242612
123	ENSXETG00000018124	1.422719906	3.59E-126	cldn2	claudin 2	ENSG00000165376
124	ENSXETG00000000930	1.420896406	4.85E-181	pnlip	pancreatic lip	ENSG00000266200,ENSG00000187021,ENSG00000175535
125	ENSXETG00000030801	1.411426878	0.001445122	ENSXETG00000030801		ENSG00000186907
126	ENSXETG00000010085	1.394250945	0	ENSXETG00000010085	sulfotransfera	ENSG00000105398
127	ENSXETG00000023395	1.391679488	0.000774454	alb	albumin	ENSG00000163631,ENSG00000079557,ENSG00000081051
128	ENSXETG00000005776	1.390570168	2.21E-21	chtf18	chromosome	ENSG00000127586
129	ENSXETG00000007829	1.383565727	1.99E-44	kif23	kinesin family	ENSG00000137807
130	ENSXETG00000022431	1.375619197	0.00016675	fgb	fibrinogen be	ENSG00000171564
131	ENSXETG00000012416	1.374885654	0.000847154	hs3st2	heparan sulfa	ENSG00000122254
132	ENSXETG00000012777	1.362635602	3.48E-49	acss1	acyl-CoA synt	ENSG00000154930
133	ENSXETG00000004673	1.35725665	4.95E-12	kif22	kinesin family	ENSG00000079616
134	ENSXETG00000025478	1.357018592	0.000461634	lum	lumican	ENSG00000139329
135	ENSXETG00000004865	1.343252404	0	pnpla3	patatin like pl	ENSG00000100344,ENSG00000100341
136	ENSXETG00000009373	1.338944902	0.001919194	pvalb	parvalbumin	ENSG00000100362
137	ENSXETG00000018379	1.338221445	1.03E-58	haus7	HAUS augmin	ENSG00000213397
138	ENSXETG00000014029	1.337801317	0.000748561	ins	insulin	ENSG00000129965,ENSG00000254647
139	ENSXETG00000016057	1.337166756	0	tst	thiosulfate su	ENSG00000128311
140	ENSXETG00000014352	1.335215292	2.81E-06	ENSXETG00000014352		ENSG00000154328
141	ENSXETG00000010624	1.331299498	0.000346388	rspo3	R-spondin 3	ENSG00000146374
142	ENSXETG00000004500	1.330652785	1.74E-08	mcm8	minichromos	ENSG00000125885
143	ENSXETG00000020409	1.326195577	4.28E-47	kifc1	kinesin family	ENSG00000237649
144	ENSXETG00000008336	1.324953161	3.30E-12	ncapd3	non-SMC con	ENSG00000151503
145	ENSXETG00000026269	1.321692087	0	akr1d1	aldo-keto red	ENSG00000122787
146	ENSXETG00000023867	1.319437633	0.00183866	naca	nascent polyp	ENSG00000136274
147	ENSXETG00000001323	1.318190572	4.48E-08	tk1	thymidine kin	ENSG00000167900
148	ENSXETG00000023826	1.312028478	6.59E-28	ncapg	non-SMC con	ENSG00000109805
149	ENSXETG00000012032	1.310481149	4.90E-08	aurka	aurora kinase	ENSG00000087586
150	ENSXETG00000003999	1.31048025	1.56E-58	rrm1	ribonucleotid	ENSG00000167325
151	ENSXETG00000007799	1.308890409	6.15E-09	kntc1	kinetochore a	ENSG00000184445
152	ENSXETG00000004755	1.303711467	1.73E-13	lrrc52	leucine rich r	ENSG00000162763
153	ENSXETG00000012677	1.29970795	1.01E-29	XB-GENE-5886929	hypothetical	ENSG00000132703,ENSG00000132693
154	ENSXETG00000009662	1.299106842	3.24E-06	clspn	claspin	ENSG00000092853
155	ENSXETG00000018262	1.297271864	0.000417322	pglyrp1	peptidoglycar	ENSG00000159527,ENSG00000163218,ENSG00000008438
156	ENSXETG00000014320	1.29563515	0.000107991	e2f7	E2F transcript	ENSG00000165891
157	ENSXETG00000006746	1.288975276	6.02E-151	slc52a3	solute carrier	ENSG00000101276
158	ENSXETG00000016289	1.284382885	1.07E-13	ucn3	urocortin 3	ENSG00000178473
159	ENSXETG00000015894	1.279506147	3.27E-11	zwilch	zwilch kineto	ENSG00000174442
160	ENSXETG00000001245	1.275256753	6.23E-17	ncaph	non-SMC con	ENSG00000121152
161	ENSXETG00000010911	1.275116628	1.61E-06	ENSXETG00000010911		ENSG00000105366,ENSG00000142512,ENSG00000105501,ENSG00000105383,ENSG00000254415,ENSG00000105492,ENSG00000268500,ENSG00000161640,ENSG00000168995,ENSG00000254521,ENSG00000129450
162	ENSXETG00000001547	1.268027045	1.77E-63	col4a6	collagen, type	ENSG00000197565
163	ENSXETG00000017586	1.265794073	0.002452154	fbp2	fructose-bisp	ENSG00000130957
164	ENSXETG00000014474	1.260510386	0.001241879	fgf8	fibroblast gro	ENSG00000158815,ENSG00000107831
165	ENSXETG00000009595	1.258347639	9.38E-17	ska3	spindle and k	ENSG00000165480
166	ENSXETG00000003874	1.255130102	3.83E-30	tacc3	transforming	ENSG00000013810
167	ENSXETG00000018741	1.250956504	1.95E-17	mastl	microtubule a	ENSG00000120539
168	ENSXETG00000026093	1.249275341	0.005017074	fga	fibrinogen alp	ENSG00000171560
169	ENSXETG00000018751	1.248774857	1.33E-05	aldh1a3	aldehyde deh	ENSG00000184254
170	ENSXETG00000010123	1.240777079	4.27E-12	scn4b	sodium voltag	ENSG00000177098
171	ENSXETG00000008149	1.240617597	0.000149887	nfic	nuclear facto	ENSG00000141905
172	ENSXETG00000004232	1.238555554	0	ggt1	gamma-gluta	ENSG00000274252,ENSG00000100121,ENSG00000133475,ENSG00000149435,ENSG00000100031
173	ENSXETG00000004522	1.232738146	3.08E-10	lypd6	LY6/PLAUR do	ENSG00000187123
174	ENSXETG00000015816	1.228915221	0.000324025	blvra	biliverdin red	ENSG00000106605
175	ENSXETG00000010847	1.222171605	1.48E-05	amy2a	amylase, alph	ENSG00000240038,ENSG00000187733,ENSG00000174876,ENSG00000243480,ENSG00000237763
176	ENSXETG00000022636	1.220300868	1.27E-08	prss35	protease, seri	ENSG00000146250
177	ENSXETG00000000312	1.219801255	2.43E-06	XB-GENE-981231	Putative orth	ENSG00000118193
178	ENSXETG00000023845	1.219653368	7.30E-55	pgam5	PGAM family	ENSG00000247077
179	ENSXETG00000012668	1.218035276	5.00E-06	espl1	extra spindle	ENSG00000135476
180	ENSXETG00000016040	1.212702555	3.73E-05	tmprss6	transmembra	ENSG00000187045
181	ENSXETG00000006338	1.210271644	0.000287772	thbs3	thrombospon	ENSG00000169231
182	ENSXETG00000008940	1.20941612	3.71E-34	lamb3	laminin subur	ENSG00000196878
183	ENSXETG00000001565	1.203220217	3.76E-173	col4a5	collagen, type	ENSG00000188153
184	ENSXETG00000002710	1.202619259	5.51E-09	rcor2	REST corepre	ENSG00000167771
185	ENSXETG00000011768	1.200617651	5.43E-08	ttk	TTK protein k	ENSG00000112742
186	ENSXETG00000009499	1.197581731	9.43E-151	slc39a5	solute carrier	ENSG00000139540
187	ENSXETG00000024952	1.197465517	0.004636445	tnnt3	troponin T3, f	ENSG00000130595
188	ENSXETG00000017641	1.194510722	6.61E-05	rcn3	reticulocalbin	ENSG00000142552
189	ENSXETG00000013741	1.19004427	0.000751112	gins3	GINS complex	ENSG00000181938
190	ENSXETG00000018545	1.188305656	3.00E-05	fbxo5	F-box protein	ENSG00000112029
191	ENSXETG00000006436	1.188217078	5.16E-07	ankle1	ankyrin repea	ENSG00000160117
192	ENSXETG00000000835	1.185550422	3.36E-33	nfib	nuclear facto	ENSG00000147862
193	ENSXETG00000024668	1.185348834	5.27E-58	lamc2	laminin subur	ENSG00000058085
194	ENSXETG00000031041	1.184892454	0.000857824	ENSXETG00000031041		ENSG00000249115
195	ENSXETG00000025809	1.183634859	0.005479979	adora3	adenosine A3	ENSG00000121933
196	ENSXETG00000007330	1.179331119	3.26E-96	hyal2	hyaluronoglu	ENSG00000068001
197	ENSXETG00000020033	1.178923921	0.008438851	serpinc1	serpin peptid	ENSG00000117601
198	ENSXETG00000004890	1.172462961	6.57E-23	ugt1a6	UDP glucuron	ENSG00000240224,ENSG00000241635,ENSG00000244474,ENSG00000243135
199	ENSXETG00000016582	1.168775483	0.000636842	recql4	RecQ helicase	ENSG00000160957
200	ENSXETG00000020892	1.166448844	0.00897135	gc	group-specifi	ENSG00000145321
201	ENSXETG00000003088	1.163008394	0.010493701	clca3p	chloride chan	ENSG00000016602,ENSG00000016490,ENSG00000137975
202	ENSXETG00000004181	1.161131619	5.79E-78	pnliprp2	pancreatic lip	ENSG00000266200,ENSG00000187021,ENSG00000175535
203	ENSXETG00000004282	1.159284066	1.71E-05	kif18a	kinesin family	ENSG00000121621
204	ENSXETG00000021566	1.158900439	9.73E-05	ttc36	tetratricopep	ENSG00000172425

205	ENSKETG00000009274	-1.02428906	5.40E-19	dlg3il2	ZFP36 ring fin	ENSG00000152518	
206	ENSKETG00000024887	-1.024183392	2.52E-130	cdkn1a	cyclin-depend	ENSG00000124762	
207	ENSKETG00000027735	-1.020753125	0.009475715	prf41	zinc finger pr	ENSG00000256571	
208	ENSKETG00000010280	-1.02015773	1.28E-10	pik3c3	phosphatidyli	ENSG00000078142	
209	ENSKETG00000024204	-1.019750591	5.75E-12	arntl	aryl hydrocar	ENSG00000113794	
210	ENSKETG00000011677	-1.016884232	1.81E-52	ras11b	RAS like famil	ENSG00000128045	
211	ENSKETG00000011114	-1.010498856	5.57E-10	kihh21	kelch like fam	ENSG00000162413	
212	ENSKETG00000008550	-1.008571332	1.19E-05	thbs2	thrombospon	ENSG00000186340	
213	ENSKETG00000006245	-1.008389762	1.19E-143	ddit3	DNA damage	ENSG00000175197	
214	ENSKETG00000022374	-1.008165835	6.60E-16	baat	bile acid-CoA	ENSG00000136881	
215	ENSKETG00000016587	-1.007865588	2.27E-235	hmgcs1	3-hydroxy-3-	ENSG00000112972	
216	ENSKETG00000001165	-1.002353213	3.79E-28	aspn	aspin	ENSG00000187017	
217	ENSKETG00000012760	-1.000733913	2.00E-67	ENSKETG0000012760		ENSG00000144035	

205	ENSKETG00000019362	1.158689388	0.020157503	XB-GENE-5742361	hypothetical	ENSG00000132703,ENSG00000132693	
206	ENSKETG00000021500	1.155455063	6.88E-06	haus1	HAUS augmi	ENSG00000152240	
207	ENSKETG00000007796	1.153805413	2.13E-06	mmu22l	MMU22 like	ENSG00000164263	
208	ENSKETG00000022551	1.153071873	0.039908547	fank1	fibronectin ty	ENSG00000200780	
209	ENSKETG00000002548	1.151662947	5.18E-33	tpx2	TPX2, microt	ENSG00000088325	
210	ENSKETG00000027208	1.14960025	9.59E-24	ptpn6	guanylate bin	ENSG00000117226,ENSG00000162645,ENSG00000213512,ENSG00000183347,ENSG00000162654,ENSG00000154451,ENSG00000117228	
211	ENSKETG00000003366	1.14694346	6.08E-23	rab27b	RAB27B, mem	ENSG00000041353	
212	ENSKETG00000023215	1.145073435	4.75E-25	atad2	ATPase family	ENSG00000156802	
213	ENSKETG00000010849	1.136808803	4.74E-13	angptl3	angiopoietin	ENSG00000132855	
214	ENSKETG00000002542	1.136518446	4.71E-08	slc5a8	solute carrier	ENSG00000205870	
215	ENSKETG00000014881	1.134998813	9.83E-23	ube2c	ubiquitin con	ENSG00000175063	
216	ENSKETG00000005916	1.133091033	1.63E-06	mscb2	methionine s	ENSG00000148450	
217	ENSKETG00000000287	1.1290506	1.67E-08	bub1b	BUB1B, mitot	ENSG00000156970	
218	ENSKETG00000017215	1.125397322	0.002625338	pgrip1	RPGR interac	ENSG00000092200	
219	ENSKETG00000007458	1.120133725	7.00E-39	st8sia6	ST8 alpha-N-	ENSG00000148488	
220	ENSKETG00000004369	1.117812808	0.001356843	rad54l	RAD54 like	ENSG00000085999	
221	ENSKETG00000022522	1.117761662	1.42E-11	pklr4	pyruvate kina	ENSG00000142731	
222	ENSKETG00000006710	1.117176474	2.44E-23	cdc25c	cell division c	ENSG00000158402	
223	ENSKETG00000018291	1.11483133	3.61E-107	nfyapa	CCAAT/enhar	ENSG00000245848	
224	ENSKETG00000015951	1.111195618	4.55E-09	rad51	RAD51 recom	ENSG00000051180	
225	ENSKETG00000017070	1.107128107	0.006660719	a2m11	alpha-2-macr	ENSG00000164535	
226	ENSKETG00000003617	1.103338353	4.65E-17	fancd2	Fanconi anem	ENSG00000144554	
227	ENSKETG00000019409	1.103175384	8.03E-117	ccdc69	coiled-coil do	ENSG00000198624	
228	ENSKETG00000015144	1.099075173	0.013778842	ttcap	titin-cap	ENSG00000173991	
229	ENSKETG00000003443	1.097563232	1.05E-08	hsga1	4-hydroxy-2-	ENSG00000241935	
230	ENSKETG00000013241	1.096847757	0.001943885	vcam1	vascular cell	ENSG00000162692	
231	ENSKETG00000030458	1.096114874	0.013802707	ENSKETG00000030458		ENSG00000125730	
232	ENSKETG00000020454	1.093739264	0	krt8	keratin 8	ENSG00000170421	
233	ENSKETG00000014772	1.090747509	1.73E-131	ENSKETG00000014772		ENSG00000135917	
234	ENSKETG00000019706	1.088160832	2.41E-08	mis18bp1	MIS18 bindin	ENSG00000129134	
235	ENSKETG00000000253	1.084984057	1.11E-23	mcm5	minichromos	ENSG00000100297	
236	ENSKETG00000008822	1.084134824	7.57E-66	ttdfc	trijokinase/FM	ENSG00000149476	
237	ENSKETG00000002005	1.082076887	7.37E-71	gnai2	guanine nucle	ENSG00000134183	
238	ENSKETG00000013911	1.075103593	0.020008638	DUSP27		ENSG00000198842	
239	ENSKETG00000011232	1.07241473	2.55E-11	cracr2a	calcium reley	ENSG00000130038	
240	ENSKETG00000002534	1.06618005	0.002611609	parp9p	PARP1 bindi	ENSG00000158480	
241	ENSKETG00000015724	1.06534736	0.004241341	tymp	thymidine ph	ENSG00000025708	
242	ENSKETG00000018863	1.059345968	0.012841232	slc15a5	solute carrier	ENSG00000188991	
243	ENSKETG00000009571	1.057405179	0.00065496	cpxm2	carboxypepti	ENSG00000121898	
244	ENSKETG00000023789	1.057066084	0.022027569	vtn	vitronectin	ENSG00000109072	
245	ENSKETG00000006186	1.054252067	4.33E-06	ahrr	aryl hydrocar	ENSG00000069438	
246	ENSKETG00000019389	1.053635688	0.018341678	hrg	histidine rich	ENSG00000090512	
247	ENSKETG00000030321	1.051482602	0.022975778	ENSKETG00000030321		ENSG00000225769	
248	ENSKETG00000021873	1.050497512	1.59E-19	acer1	alkaline cera	ENSG00000162769	
249	ENSKETG00000015050	1.048844066	0.021327212	cldn1	claudin 1	ENSG00000163347	
250	ENSKETG00000012599	1.0487333	1.55E-08	wgl	lenoglakin	ENSG00000167880	
251	ENSKETG00000014840	1.046960833	0.008350027	znf367	zinc finger pr	ENSG00000165244	
252	ENSKETG00000000504	1.040691188	3.40E-125	acmsd	aminocarboxy	ENSG00000153086	
253	ENSKETG00000022415	1.039675143	0.02369673	fgg	fibrinogen ga	ENSG00000171557	
254	ENSKETG00000029931	1.03860525	2.23E-09	ENSKETG00000029931		ENSG00000156886,ENSG00000140678,ENSG00000169896	
255	ENSKETG00000018027	1.037640354	1.17E-12	ifi27		ENSG00000100360	
256	ENSKETG00000002676	1.036256485	3.39E-42	syp11	synaptotagm	ENSG00000142765	
257	ENSKETG00000022029	1.035884133	1.53E-269	pfkfb1	6-phosphofru	ENSG00000158571	
258	ENSKETG00000019032	1.034768854	0.017446455	ewsr1	ewsnucleasa	ENSG00000174371	
259	ENSKETG00000018063	1.0281308	0.022243739	cga	glycoprotein	ENSG00000135346	
260	ENSKETG00000016407	1.027888181	1.03E-09	iqcd	IQ motif conta	ENSG00000166578	
261	ENSKETG00000001459	1.025525193	3.38E-13	gcnf	nuclin F	ENSG00000162063	
262	ENSKETG00000027687	1.020609069	3.54E-08	spc24	SPC24, NDC8	ENSG00000151888	
263	ENSKETG00000031212	1.018071493	2.00E-05	trrc61		ENSG00000127399	
264	ENSKETG00000019731	1.016780125	0.027869779	slc13a5	solute carrier	ENSG00000214485	
265	ENSKETG00000011663	1.016018242	0.01955668	ank11	ankyrin repea	ENSG00000170209	
266	ENSKETG00000002623	1.008691154	0.026913598	syt1	synaptotagm	ENSG00000196218	
267	ENSKETG00000007384	1.008247372	9.04E-06	spag8	sperm associ	ENSG00000077327	
268	ENSKETG00000017718	1.007091525	3.79E-09	mtfr2	mitochondria	ENSG00000146410	
269	ENSKETG00000004725	1.006377681	1.41E-25	ttr	transthyretin	ENSG00000118271	
270	ENSKETG00000006838	1.00411475	1.98E-08	rab37	RAB37, mem	ENSG00000127794	
271	ENSKETG00000006304	1.001975845	0.029252464	tbx1	T-box 1	ENSG00000184058	
272	ENSKETG00000016168	1.00193618	0.029104013	tmod3	leiomodin 3	ENSG00000163380	

Supplemental Table 2B. Genes with at least 2 fold change in expression in T3-treated TRα knockout tadpoles compared to wild type ones.

2-fold change (DOWN)

No	Gene ID	log2FoldChange	padj	Gene Symbol	Gene Name	Ensemble_Human ID
1	ENSXETG00000005714	-10.73997362	0	fabp6	fatty acid bind	ENSG00000170231
2	ENSXETG00000017955	-5.64351866	4.81E-67	tmigd1	transmembra	ENSG00000182271
3	ENSXETG00000013747	-5.154416085	1.34E-176	ca1	carbonic anhy	ENSG00000133742
4	ENSXETG00000017527	-4.628291873	2.43E-167	cyp24a1	cytochrome P	ENSG00000019186
5	ENSXETG00000022442	-3.865595103	3.83E-136	mal	mal, T-cell dif	ENSG00000172005
6	ENSXETG00000023425	-3.757730997	4.91E-42	akr1c2	aldo-keto red	ENSG00000187134,ENSG00
7	ENSXETG00000025341	-3.651904892	1.25E-51	krt12	keratin 12	ENSG00000187242
8	ENSXETG00000017467	-3.3608377	1.68E-17	krt15	keratin 15, ty	ENSG00000171346,ENSG00
9	ENSXETG00000023898	-3.111797283	0	duox2	dual oxidase 2	ENSG00000137857,ENSG00
10	ENSXETG00000012760	-3.111131616	2.01E-196	ENSXETG00000012760		ENSG00000144035
11	ENSXETG00000004725	-2.865089568	3.60E-117	ttr	transthyretin	ENSG00000118271
12	ENSXETG00000014770	-2.812328109	2.11E-265	tm4sf20	transmembra	ENSG00000168955
13	ENSXETG00000021566	-2.650360921	5.89E-17	ttc36	tetratricopep	ENSG00000172425
14	ENSXETG00000011685	-2.638620522	3.47E-193	slc1a1	solute carrier	ENSG00000106688
15	ENSXETG00000017044	-2.588544915	4.10E-73	ENSXETG00000017044		ENSG00000169876,ENSG00
16	ENSXETG00000011179	-2.553169175	3.60E-119	ptger3	prostaglandin	ENSG00000050628
17	ENSXETG00000021893	-2.544499774	3.19E-227	angptl4	angiopoietin l	ENSG00000167772
18	ENSXETG00000012709	-2.458515628	9.71E-14	pde6a	phosphodiest	ENSG00000132915
19	ENSXETG00000002122	-2.419692931	1.53E-20	sod3	superoxide di	ENSG00000109610
20	ENSXETG00000011266	-2.414573707	0	pck1	phosphoenol	ENSG00000124253
21	ENSXETG00000019854	-2.292895641	5.28E-47	sgms2	sphingomyeli	ENSG00000164023
22	ENSXETG00000006076	-2.285013299	7.25E-64	efemp1	EGF containin	ENSG00000115380
23	ENSXETG00000012583	-2.259811787	0	g6pc2	glucose-6-pho	ENSG00000131482
24	ENSXETG00000024110	-2.247543425	2.19E-139	cfi	complement	ENSG00000205403
25	ENSXETG00000007987	-2.23956734	0	arg2	arginase 2	ENSG00000081181
26	ENSXETG00000001882	-2.157319452	2.78E-213	chst11	carbohydrate	ENSG00000171310
27	ENSXETG00000000784	-2.149042579	9.69E-50	hebp2	heme binding	ENSG00000051620
28	ENSXETG00000014607	-2.095842737	0	calb1	calbindin 1	ENSG00000104327
29	ENSXETG00000029973	-2.09298504	1.77E-30	STXBP5L		ENSG00000145087
30	ENSXETG00000015130	-2.058967116	3.03E-35	cacna1s	calcium chann	ENSG00000081248
31	ENSXETG00000021353	-2.040013086	0	wsb1	WD repeat an	ENSG00000109046
32	ENSXETG00000010655	-2.0221957	4.80E-10	col2a1	collagen, type	ENSG00000139219
33	ENSXETG00000016818	-2.00826741	1.58E-06	foxd1	forkhead box	ENSG00000186564,ENSG00
34	ENSXETG00000006908	-1.97406009	2.77E-52	wnt2b	Wnt family m	ENSG00000134245
35	ENSXETG00000008002	-1.972584722	4.45E-07	grin2a	glutamate rec	ENSG00000183454
36	ENSXETG00000012777	-1.924332779	1.31E-89	acss1	acyl-CoA synt	ENSG00000154930
37	ENSXETG00000026976	-1.91520481	0	ddit4	DNA damage	ENSG00000168209
38	ENSXETG00000013222	-1.905930756	1.03E-43	osmr	oncostatin M	ENSG00000145623
39	ENSXETG00000030962	-1.86111306	2.03E-55	LONRF3		ENSG00000175556
40	ENSXETG00000014352	-1.8592832	6.14E-11	ENSXETG00000014352		ENSG00000154328
41	ENSXETG00000027407	-1.854607651	1.20E-19	steap4	STEAP4 metal	ENSG00000127954
42	ENSXETG00000000679	-1.852559211	1.58E-144	fgl1	fibrinogen like	ENSG00000104760
43	ENSXETG00000018715	-1.849760636	1.01E-18	olfm4	olfactomedin	ENSG00000102837
44	ENSXETG00000006865	-1.846907597	1.55E-37	emp1	epithelial mer	ENSG00000134531
45	ENSXETG00000019362	-1.823224711	5.97E-07	XB-GENE-574	hypothetical	ENSG00000132703,ENSG00
46	ENSXETG00000005513	-1.789396007	1.63E-96	lrrn4	leucine rich re	ENSG00000125872
47	ENSXETG00000000804	-1.784155174	4.10E-274	nfil3	nuclear factor	ENSG00000165030
48	ENSXETG00000003134	-1.77616913	1.67E-277	enpp2	ectonucleotid	ENSG00000136960
49	ENSXETG00000020473	-1.763611035	1.80E-75	slit2	slit guidance l	ENSG00000145147
50	ENSXETG00000017410	-1.745160424	6.06E-15	cdh16	cadherin 16	ENSG00000166589
51	ENSXETG00000014927	-1.744427023	0	ucp1	uncoupling pr	ENSG00000109424
52	ENSXETG00000016426	-1.743434552	2.45E-115	ca14	carbonic anhy	ENSG00000118298
53	ENSXETG00000024287	-1.710379501	9.56E-37	fah	fumarylaceto	ENSG00000103876
54	ENSXETG00000020606	-1.702453013	7.34E-14	fosl1	FOS-like antig	ENSG00000175592
55	ENSXETG00000014390	-1.693208176	7.00E-24	ntn1		ENSG00000142233
56	ENSXETG00000016972	-1.685746725	1.68E-10	kl	klotho	ENSG00000133116
57	ENSXETG00000010624	-1.680269094	3.17E-06	rspo3	R-spondin 3	ENSG00000146374
58	ENSXETG00000017241	-1.662888069	0	ENSXETG00000017241		ENSG00000125730
59	ENSXETG00000007776	-1.656688206	2.05E-75	sfrp1	secreted frizz	ENSG00000104332
60	ENSXETG00000026715	-1.656687544	1.12E-66	spef1	sperm flagella	ENSG00000144063
61	ENSXETG00000002423	-1.650658723	1.61E-50	f5	coagulation fa	ENSG00000198734
62	ENSXETG00000002514	-1.640364515	3.42E-15	crb2	crumbs 2, cell	ENSG00000148204
63	ENSXETG00000012677	-1.634676224	1.25E-45	XB-GENE-588	hypothetical	ENSG00000132703,ENSG00
64	ENSXETG00000005867	-1.634631672	3.85E-07	klkb1	kallikrein B1	ENSG00000164344,ENSG00
65	ENSXETG00000000286	-1.626162282	1.05E-196	cdknx	cyclin-depend	ENSG00000111276
66	ENSXETG00000021876	-1.622663053	7.82E-266	acsbg2	acyl-CoA synt	ENSG00000130377
67	ENSXETG00000001587	-1.615868974	6.66E-07	fgf2	fibroblast gro	ENSG00000138685
68	ENSXETG00000004679	-1.614404201	2.45E-32	lox	lysyl oxidase	ENSG00000113083
69	ENSXETG00000021403	-1.602553497	1.57E-28	sfxn3	sideroflexin 3	ENSG00000107819
70	ENSXETG00000030452	-1.59175663	9.59E-10	ENSXETG00000030452		ENSG00000106853
71	ENSXETG00000016214	-1.584695251	2.48E-06	lrp2	LDL receptor	ENSG00000081479
72	ENSXETG00000015454	-1.576925071	6.21E-07	ednrb	endothelin re	ENSG00000136160
73	ENSXETG00000013676	-1.576694049	1.13E-50	slit3	slit guidance l	ENSG00000184347
74	ENSXETG00000023914	-1.572690063	8.84E-39	ENSXETG00000023914		ENSG00000159403,ENSG00
75	ENSXETG00000019664	-1.568199827	8.28E-43	cyp2r1	cytochrome P	ENSG00000186104
76	ENSXETG00000002459	-1.567871841	2.85E-05	gpm6a	glycoprotein	ENSG00000150625
77	ENSXETG00000000760	-1.561524794	3.92E-55	gcnt1	glucosaminyl	ENSG00000187210
78	ENSXETG00000015417	-1.545307737	4.45E-17	cpz	carboxypeptid	ENSG00000109625
79	ENSXETG00000017362	-1.534341759	0.000219845	fmo5	flavin contain	ENSG00000131781
80	ENSXETG00000019843	-1.531359031	0	dpep1	dipeptidase 1	ENSG00000015413
81	ENSXETG00000015724	-1.529699982	1.73E-05	tymp	thymidine ph	ENSG00000025708
82	ENSXETG00000030684	-1.5256918	0.00022313	ENSXETG00000030684		ENSG00000051620
83	ENSXETG00000016040	-1.52222736	1.06E-07	tmprss6	transmembra	ENSG00000187045
84	ENSXETG00000004750	-1.515956989	2.51E-12	rxrg	retinoid X rec	ENSG00000143171
85	ENSXETG00000007911	-1.508621071	4.95E-07	ENSXETG00000007911		ENSG00000164616
86	ENSXETG00000023250	-1.503653869	2.19E-06	ENSXETG00000023250		ENSG00000124713
87	ENSXETG00000023109	-1.499764523	4.70E-07	adamtsl1	ADAMTS like	ENSG00000178031
88	ENSXETG00000023342	-1.49894756	1.16E-124	agt	angiotensinog	ENSG00000135744
89	ENSXETG00000001702	-1.498715193	9.79E-12	adora1	adenosine A1	ENSG00000163485
90	ENSXETG00000018734	-1.492983276	0.00032014	lvrn	laeverin	ENSG00000164307
91	ENSXETG00000016395	-1.492519381	4.97E-14	chrna7	cholinergic re	ENSG00000166664,ENSG00
92	ENSXETG00000017270	-1.487402767	4.42E-124	c3	complement	ENSG00000125730
93	ENSXETG00000015050	-1.487071175	0.000427448	cldn1	claudin 1	ENSG00000163347
94	ENSXETG00000009313	-1.484984317	0	adh1b		ENSG00000248144,ENSG00
95	ENSXETG00000007903	-1.481539993	3.61E-32	fbxl21	F-box and leu	ENSG00000164616
96	ENSXETG00000012934	-1.481037128	8.07E-104	bgn	biglycan	ENSG00000182492
97	ENSXETG00000012274	-1.480292464	2.52E-27	gpr84	G protein-cou	ENSG00000139572
98	ENSXETG00000016336	-1.476939956	9.08E-35	ptgs1	prostaglandin	ENSG00000095303
99	ENSXETG00000005431	-1.476030911	7.94E-14	sema3d	semaphorin 3	ENSG00000153993
100	ENSXETG00000022431	-1.475897457	2.77E-05	fgb	fibrinogen be	ENSG00000171564
101	ENSXETG00000018328	-1.471317505	2.64E-05	GSG1L		ENSG00000169181
102	ENSXETG00000026964	-1.470481722	7.00E-06	msmb.1	microseminop	ENSG00000263639
103	ENSXETG00000012783	-1.465214916	4.75E-10	emp2	epithelial mer	ENSG00000213853
104	ENSXETG00000015830	-1.46422898	3.38E-38	gpx3	glutathione p	ENSG00000211445,ENSG00
105	ENSXETG00000004792	-1.45859768	3.71E-14	chst13	carbohydrate	ENSG00000180767
106	ENSXETG00000023306	-1.450973711	1.01E-06	celsr1	cadherin EGF	ENSG00000075275
107	ENSXETG00000026864	-1.448989815	9.93E-18	ms4a1	membrane sp	ENSG00000166961,ENSG00
108	ENSXETG00000010839	-1.442887254	2.80E-09	COL11A1		ENSG00000060718
109	ENSXETG00000014518	-1.442548296	0.000331158	ptprq	protein tyrosi	ENSG00000139304
110	ENSXETG00000018739	-1.437329827	2.68E-122	cdo1	cysteine dioxy	ENSG00000129596
111	ENSXETG00000006917	-1.429071209	0.000437087	myl1	myosin light c	ENSG00000168530
112	ENSXETG00000008988	-1.423129597	0.000995078	galnt15	polypeptide N	ENSG00000131386
113	ENSXETG00000004181	-1.421115009	1.80E-116	pnliprp2	pancreatic lip	ENSG00000266200,ENSG00
114	ENSXETG00000018270	-1.420133886	1.70E-15	ptgir	prostaglandin	ENSG00000160013
115	ENSXETG00000023912	-1.409898814	1.79E-48	c1s	complement	ENSG00000182326
116	ENSXETG00000009462	-1.407457103	6.76E-78	as3mt.1	arsenite meth	ENSG00000214435
117	ENSXETG00000017411	-1.404721538	9.27E-49	hmcn1	hemicentin 1	ENSG00000143341
118	ENSXETG00000014474	-1.403540181	0.000181525	fgf8	fibroblast gro	ENSG00000158815,ENSG00
119	ENSXETG00000005661	-1.395070159	0	cyp7a1	cytochrome P	ENSG00000167910
120	ENSXETG00000001547	-1.393872198	1.07E-79	col4a6	collagen, type	ENSG00000197565
121	ENSXETG00000014905	-1.392913607	1.21E-12	lama2	laminin subur	ENSG00000196569
122	ENSXETG00000022391	-1.388249414	7.47E-41	lipg	lipase, endoth	ENSG00000101670
123	ENSXETG00000012748	-1.385330754	6.19E-15	hspa12b	heat shock pr	ENSG00000132622
124	ENSXETG00000009446	-1.383314825	0.000696664	suox	sulfite oxidase	ENSG00000139531
125	ENSXETG00000016053	-1.379205609	2.42E-07	kctd17	potassium ch	ENSG00000100379
126	ENSXETG00000012498	-1.377545144	5.34E-07	nos2	nitric oxide sy	ENSG00000007171
127	ENSXETG00000006020	-1.369734638	1.65E-11	lrrn4cl	LRRN4 C-term	ENSG00000177363
128	ENSXETG00000024115	-1.365041253	7.31E-05	lrit3	leucine-rich r	ENSG00000183423
129	ENSXETG00000021242	-1.364434659	3.30E-187	fam213b	family with se	ENSG00000157870
130	ENSXETG00000011481	-1.3624836	8.10E-157	col18a1	collagen type	ENSG00000182871
131	ENSXETG00000012730	-1.361775437	2.73E-124	stc2	stanniocalcin	ENSG00000113739
132	ENSXETG00000018268	-1.358636459	0	slc7a9	solute carrier	ENSG00000021488
133	ENSXETG00000001565	-1.356644047	5.99E-227	col4a5	collagen, type	ENSG00000188153
134	ENSXETG00000011551	-1.354661118	0	aldh1l1	aldehyde deh	ENSG00000144908
135	ENSXETG00000022298	-1.352928224	2.91E-12	ung	uracil DNA gly	ENSG00000076248
136	ENSXETG00000011549	-1.350715739	2.00E-52	klf15	Kruppel-like f	ENSG00000163884
137	ENSXETG00000003071	-1.350432765	2.93E-13	fbln1	fibulin 1	ENSG00000077942
138	ENSXETG00000017869	-1.341487104	2.72E-13	nqo1	NAD(P)H deh	ENSG00000181019
139	ENSXETG00000012244	-1.34118294	3.40E-25	PTX3		ENSG00000163661
140	ENSXETG00000009137	-1.337887523	1.60E-37	ppl	periplakin	ENSG00000118898
141	ENSXETG00000027686	-1.322882853	1.88E-72	serpinf1	serpin peptid	ENSG00000132386
142	ENSXETG00000008092	-1.322413066	7.41E-19	oprk1	opioid recept	ENSG00000082556
143	ENSXETG00000018751	-1.321431725	1.70E-06	aldh1a3	aldehyde deh	ENSG00000184254
144	ENSXETG00000027271	-1.317358721	0.00045755	XB-GENE-585	hypothetical	ENSG00000132703,ENSG00
145	ENSXETG00000008223	-1.317126054	0.001508655	abca4	ATP binding c	ENSG00000198691
146	ENSXETG00000012189	-1.31260905	1.56E-17	bicdl1	BICD family li	ENSG00000135127
147	ENSXETG00000007731	-1.31148442	0	slc25a25	solute carrier	ENSG00000148339
148	ENSXETG00000019108	-1.311384756	3.26E-05	ckm	creatine kinas	ENSG00000104879
149	ENSXETG00000001065	-1.310074928	2.84E-05	fhl5	four and a ha	ENSG00000112214
150	ENSXETG00000009576	-1.307697582	2.70E-44	oat.2	ornithine ami	ENSG00000065154
151	ENSXETG00000019898	-1.306458019	1.07E-93	rhbg	Rh family B gl	ENSG00000132677
152	ENSXETG00000009373	-1.305267798	0.002216447	pvalb	parvalbumin	ENSG00000100362
153	ENSXETG00000012149	-1.304559554	0.002636091	agxt	alanine-glyox	ENSG00000172482
154	ENSXETG00000024497	-1.3023001	1.37E-297	ENSXETG0000	cytochrome P	ENSG00000142973
155	ENSXETG00000030360	-1.302268207	2.60E-117	slc10a3		ENSG00000126903
156	ENSXETG00000000689	-1.297030176	1.13E-18	pdgfrl	platelet deriv	ENSG00000104213
157	ENSXETG00000008592	-1.296011564	0.00057534	otc	ornithine carb	ENSG00000036473
158	ENSXETG00000021016	-1.294980004	5.59E-209	gstp1	glutathione S	ENSG00000084207
159	ENSXETG00000016264	-1.293867803	0	ENSXETG00000016264		ENSG00000168060
160	ENSXETG00000013606	-1.29333683	9.36E-107	arrdc2	arrestin doma	ENSG00000105643
161	ENSXETG00000011833	-1.289588141	4.55E-26	ptprd	protein tyrosi	ENSG00000153707
162	ENSXETG00000013544	-1.288150313	8.43E-40	serpinf2	serpin peptid	ENSG00000167711
163	ENSXETG00000001339	-1.282830492	0.000246	frzb	frizzled-relate	ENSG00000162998
164	ENSXETG00000015656	-1.277582051	1.82E-284	igfbp1	insulin like gr	ENSG00000146678
165	ENSXETG00000024588	-1.26940488	8.31E-100	g6pc		ENSG00000131482
166	ENSXETG00000020597	-1.268541967	5.77E-11	efemp2	EGF containin	ENSG00000172638
167	ENSXETG00000004621	-1.268027929	0.000382109	tnni2	troponin I2, f	ENSG00000130598
168	ENSXETG00000003600	-1.267573643	0.002043843	rspo2	R-spondin 2	ENSG00000147655
169	ENSXETG00000008652	-1.26745522	9.63E-06	fam107a	family with se	ENSG00000168309
170	ENSXETG00000013241	-1.265615595	0.00018253	vcam1	vascular cell a	ENSG00000162692
171	ENSXETG00000020918	-1.26381357	0.0019107	ecm2.1	extracellular	ENSG00000106823
172	ENSXETG00000015822	-1.257470213	1.12E-07	fbln5	fibulin 5	ENSG00000140092
173	ENSXETG00000019349	-1.255628372	4.39E-52	ltbp1	latent transfo	ENSG00000049323
174	ENSXETG00000023789	-1.255196822	0.004042722	vtn	vitronectin	ENSG00000109072
175	ENSXETG00000005203	-1.255093536	4.41E-32	c4a	complement	ENSG00000224389,ENSG00
176	ENSXETG00000009717	-1.254829052	8.86E-15	tln2	talin 2	ENSG00000171914
177	ENSXETG00000014318	-1.250517619	6.75E-36	csrp2	cysteine and	ENSG00000175183
178	ENSXETG00000012999	-1.248720583	2.97E-28	cbs	cystathionine	ENSG00000160200,ENSG00
179	ENSXETG00000011140	-1.243141961	1.95E-37	XB-GENE-983	Putative orth	ENSG00000112077
180	ENSXETG00000030483	-1.238926379	0.002891746	ENSXETG00000030483		ENSG00000106686
181	ENSXETG00000008241	-1.233250541	0.002263688	arg1	arginase 1	ENSG00000118520
182	ENSXETG00000017433	-1.229074397	7.61E-06	il17c	interleukin 17	ENSG00000124391
183	ENSXETG00000001353	-1.228559773	3.55E-38	hmcn2	hemicentin 2	ENSG00000148357
184	ENSXETG00000012279	-1.224766778	1.87E-45	lamb1	laminin subur	ENSG00000091136
185	ENSXETG00000016084	-1.222683502	1.08E-10	bnc1	basonuclin 1	ENSG00000169594
186	ENSXETG00000005773	-1.218986557	0.000418121	noxo1.1	NADPH oxida	ENSG00000196408
187	ENSXETG00000014626	-1.218283905	1.36E-14	tgm1	transglutamin	ENSG00000092295
188	ENSXETG00000022417	-1.208821896	2.68E-09	serpind1	serpin peptid	ENSG00000099937
189	ENSXETG00000003405	-1.208628304	1.26E-08	slit1	slit guidance l	ENSG00000187122
190	ENSXETG00000009571	-1.207949019	4.79E-05	cpxm2	carboxypeptid	ENSG00000121898
191	ENSXETG00000010865	-1.206200124	4.35E-26	aldh1a2	aldehyde deh	ENSG00000128918
192	ENSXETG00000008786	-1.206149034	0.002827925	fgf7	fibroblast gro	ENSG00000140285
193	ENSXETG00000024302	-1.203357853	2.12E-05	atp10a	ATPase, class	ENSG00000206190
194	ENSXETG00000027245	-1.202715972	0.003729233	ogn	osteoglycin	ENSG00000106809
195	ENSXETG00000025478	-1.201328476	0.001207776	lum	lumican	ENSG00000139329

2-fold change (UP)

No	Gene ID	log2FoldChange	padj	Gene Symbol	Gene Name	Ensemble_Human ID
1	ENSXETG00000021140	5.763429672	0	cyp1a1	cytochrome P	ENSG00000140505,ENSG00000140465
2	ENSXETG00000012944	5.734290559	1.93E-83	foxo6	forkhead box	ENSG00000204060
3	ENSXETG00000022372	4.946267112	8.27E-86	mmp11	matrix metall	ENSG00000099953
4	ENSXETG00000003871	3.597122381	1.10E-129	thrb	thyroid horm	ENSG00000151090
5	ENSXETG00000004005	3.55139487	0	gal3st4		ENSG00000197093
6	ENSXETG00000021636	2.715555015	4.28E-16	amdhd1	amidohydrola	ENSG00000139344
7	ENSXETG00000023050	2.533634035	2.95E-30	sqle	squalene epo	ENSG00000104549
8	ENSXETG00000006930	2.527726477	2.09E-45	kctd1	potassium ch	ENSG00000134504
9	ENSXETG00000016585	2.473662686	1.29E-91	slc7a5	solute carrier	ENSG00000103257
10	ENSXETG00000000835	2.429435932	0	nfib	nuclear factor	ENSG00000147862
11	ENSXETG00000023016	2.422981849	1.04E-303	b4galt4	UDP-Gal:beta	ENSG00000121578
12	ENSXETG00000013957	2.406501071	0	ldha	lactate dehyd	ENSG00000166796,ENSG00000171989,ENSG00000166800,ENSG00000134333
13	ENSXETG00000008019	2.335676788	4.35E-33	pth2r	parathyroid h	ENSG00000144407
14	ENSXETG00000017213	2.333812043	5.77E-276	slc16a1	solute carrier	ENSG00000155380
15	ENSXETG00000004164	2.286462785	2.96E-39	kif3a	kinesin family	ENSG00000131437
16	ENSXETG00000006901	2.26999578	3.82E-61	mov10	Mov10 RISC c	ENSG00000155363
17	ENSXETG00000021812	2.225810555	5.96E-132	pdk3	pyruvate dehy	ENSG00000067992
18	ENSXETG00000002542	2.223840617	2.60E-51	slc5a8	solute carrier	ENSG00000256870
19	ENSXETG00000021043	2.173798386	0	gltpd2	glycolipid tran	ENSG00000182327
20	ENSXETG00000025667	2.147273873	2.25E-252	hbg1	hemoglobin s	ENSG00000213934,ENSG00000213931,ENSG00000196565
21	ENSXETG00000001688	2.091121491	2.91E-24	mamdc2	MAM domain	ENSG00000165072
22	ENSXETG00000025504	2.075609108	1.49E-135	tmem150b	transmembra	ENSG00000180061
23	ENSXETG00000025664	2.067270993	6.02E-242	hba1	hemoglobin s	ENSG00000206172,ENSG00000086506,ENSG00000188536
24	ENSXETG00000016478	2.024859625	6.29E-23	klf13	Kruppel-like f	ENSG00000169926
25	ENSXETG00000002790	1.988300557	1.59E-22	slc8a2	solute carrier	ENSG00000118160
26	ENSXETG00000001210	1.98136393	6.75E-57	aacs	acetoacetyl-C	ENSG00000081760
27	ENSXETG00000000954	1.977107834	0	slc34a2	solute carrier	ENSG00000157765
28	ENSXETG00000003447	1.880380168	1.70E-182	atp13a3	ATPase type 1	ENSG00000133657
29	ENSXETG00000024002	1.874523499	1.48E-30	b4galt6	UDP-Gal:beta	ENSG00000158470
30	ENSXETG00000007329	1.839406387	3.46E-285	hyal1	hyaluronoglu	ENSG00000114378
31	ENSXETG00000006623	1.79904574	7.41E-08	lrrc15	leucine rich re	ENSG00000172061
32	ENSXETG00000010847	1.786644125	1.21E-19	amy2a	amylase, alph	ENSG00000240038,ENSG00000187733,ENSG00000174876,ENSG00000243480,ENSG00000237763
33	ENSXETG00000019685	1.774683269	3.36E-81	ENSXETG00000019685		ENSG00000133818
34	ENSXETG00000024186	1.769630422	7.35E-14	TUBB1		ENSG00000101162
35	ENSXETG00000005916	1.747507446	1.53E-30	msrb2	methionine su	ENSG00000148450
36	ENSXETG00000010208	1.741294542	4.47E-64	fosl2	FOS-like antig	ENSG00000075426
37	ENSXETG00000009961	1.737226493	1.81E-125	kcnk5	potassium ch	ENSG00000164626
38	ENSXETG00000008268	1.734683103	2.07E-96	mboat2	membrane bo	ENSG00000143797
39	ENSXETG00000021818	1.73073501	6.93E-17	ifit5	interferon ind	ENSG00000204010,ENSG00000185745,ENSG00000119917,ENSG00000152778,ENSG00000119922
40	ENSXETG00000027136	1.725629923	3.39E-12	ENSXETG00000027136		ENSG00000109670
41	ENSXETG00000003175	1.712909317	1.83E-07	c1ql1	complement c	ENSG00000131094
42	ENSXETG00000000484	1.664085649	1.52E-22	serinc5	serine incorpo	ENSG00000164300
43	ENSXETG00000011870	1.654752893	0	tmem45a	transmembra	ENSG00000181458
44	ENSXETG00000005121	1.634064818	1.59E-22	slc16a9	solute carrier	ENSG00000165449
45	ENSXETG00000008149	1.601625741	1.06E-11	nfic	nuclear factor	ENSG00000141905
46	ENSXETG00000001262	1.59976201	4.99E-17	slc16a6	solute carrier	ENSG00000108932
47	ENSXETG00000005739	1.578108456	3.79E-49	klf4	Kruppel-like f	ENSG00000136826
48	ENSXETG00000010452	1.569277064	1.26E-29	gab2	GRB2 associat	ENSG00000033327,ENSG00000215568
49	ENSXETG00000009643	1.56762179	1.47E-09	zbtb43	zinc finger an	ENSG00000169155
50	ENSXETG00000001195	1.566647734	0	scarb1	scavenger rec	ENSG00000073060
51	ENSXETG00000012143	1.541227105	4.11E-55	axin1	axin 1	ENSG00000103126
52	ENSXETG00000012742	1.535997613	0.000308538	ENSXETG00000012742		ENSG00000134028
53	ENSXETG00000013055	1.512171162	7.80E-15	plod1	procollagen-l	ENSG00000083444
54	ENSXETG00000010280	1.506624226	1.77E-24	pik3c3	phosphatidyli	ENSG00000078142
55	ENSXETG00000008812	1.504409496	9.85E-232	fzd8	frizzled class r	ENSG00000177283
56	ENSXETG00000019051	1.497683908	2.46E-85	klf9	Kruppel-like f	ENSG00000119138
57	ENSXETG00000004315	1.490826124	9.95E-48	mmd	monocyte to	ENSG00000108960
58	ENSXETG00000022360	1.490354377	3.94E-05	slc2a11	solute carrier	ENSG00000133460,ENSG00000251357
59	ENSXETG00000000523	1.486955683	4.55E-26	bhmt	betaine--hom	ENSG00000132840,ENSG00000145692
60	ENSXETG00000027772	1.480360378	2.96E-05	hmga2	high mobility	ENSG00000149948
61	ENSXETG00000010535	1.462967528	4.52E-06	phyhip	phytanoyl-Co	ENSG00000168490
62	ENSXETG00000018744	1.4377022	2.34E-92	chsy1	chondroitin s	ENSG00000131873
63	ENSXETG00000022993	1.436525959	5.31E-69	rnf112.1	ring finger pro	ENSG00000128482
64	ENSXETG00000012345	1.42204939	6.43E-12	ENSXETG00000012345		ENSG00000117226,ENSG00000162645,ENSG00000213512,ENSG00000183347,ENSG00000162654,ENSG00000154451,ENSG00000117228
65	ENSXETG00000024887	1.420790814	1.80E-270	cdkn1a	cyclin-depend	ENSG00000124762
66	ENSXETG00000025131	1.414792879	1.41E-21	ENSXETG00000025131		ENSG00000126821
67	ENSXETG00000013594	1.404416633	6.83E-08	mex3d	mex-3 RNA bi	ENSG00000183496
68	ENSXETG00000001473	1.404334555	1.76E-130	tmcc1	transmembra	ENSG00000172765
69	ENSXETG00000018280	1.381313827	0.000908864	ENSXETG00000018280		ENSG00000132703,ENSG00000132693
70	ENSXETG00000015433	1.381021765	4.03E-96	jarid2	jumonji and A	ENSG00000008083
71	ENSXETG00000003623	1.37975715	0	psat1	phosphoserin	ENSG00000135069
72	ENSXETG00000022134	1.375178882	1.20E-22	slc39a10	solute carrier	ENSG00000196950
73	ENSXETG00000005560	1.35887064	3.75E-15	ghr	growth horm	ENSG00000112964
74	ENSXETG00000021814	1.355143958	7.59E-05	slc16a12	solute carrier	ENSG00000152779
75	ENSXETG00000023334	1.35313834	1.47E-33	slc25a22	solute carrier	ENSG00000177542
76	ENSXETG00000010186	1.351780558	0	coro2a	coronin 2A	ENSG00000106789
77	ENSXETG00000025814	1.349746641	3.08E-06	ENSXETG00000025814		ENSG00000109670
78	ENSXETG00000022980	1.341571563	3.05E-30	ankrd50	ankyrin repea	ENSG00000151458
79	ENSXETG00000018586	1.337484662	0	degs1	delta(4)-desat	ENSG00000143753
80	ENSXETG00000012935	1.332850859	3.07E-44	mast3	microtubule a	ENSG00000099308
81	ENSXETG00000002013	1.330276257	3.57E-46	cables2	Cdk5 and Abl	ENSG00000149679
82	ENSXETG00000012090	1.323908163	1.40E-45	tet3	tet methylcyt	ENSG00000187605
83	ENSXETG00000023572	1.323424637	3.16E-129	gk5	glycerol kinas	ENSG00000175066
84	ENSXETG00000018779	1.322605043	0.000791662	adamts17	ADAM metall	ENSG00000140470
85	ENSXETG00000004573	1.310035687	1.49E-19	hsd17b14	hydroxysteroi	ENSG00000087076
86	ENSXETG00000013658	1.309514783	2.56E-31	dot1l	DOT1-like hist	ENSG00000104885
87	ENSXETG00000019779	1.302899539	7.57E-61	bcl6	B-cell CLL/lym	ENSG00000113916
88	ENSXETG00000023383	1.302145861	2.87E-17	znf148	zinc finger pro	ENSG00000163848
89	ENSXETG00000014130	1.299905077	4.45E-05	ENSXETG00000014130		ENSG00000175575
90	ENSXETG00000020553	1.298068101	3.45E-19	bcas3	breast carcin	ENSG00000141376
91	ENSXETG00000021762	1.29805019	5.92E-28	angptl2	angiopoietin l	ENSG00000136859
92	ENSXETG00000021721	1.289665984	1.09E-92	renbp	renin binding	ENSG00000102032
93	ENSXETG00000024614	1.287472857	5.71E-14	tbcel	tubulin foldin	ENSG00000154114
94	ENSXETG00000012311	1.280274793	2.58E-37	nfatc2	nuclear factor	ENSG00000101096
95	ENSXETG00000014106	1.277493612	2.42E-22	arhgef38	Rho guanine r	ENSG00000236699
96	ENSXETG00000010923	1.266151805	4.11E-122	ENSXETG00000010923		ENSG00000105366,ENSG00000142512,ENSG00000105501,ENSG00000105383,ENSG00000254415,ENSG00000105492,ENSG00000268500,ENSG00000161640,ENSG00000168995,ENSG00000254521,ENSG00000129450
97	ENSXETG00000025781	1.266092518	3.49E-30	fam46c	family with se	ENSG00000183508
98	ENSXETG00000015092	1.264481617	4.66E-14	gbp1	guanylate bin	ENSG00000117226,ENSG00000162645,ENSG00000213512,ENSG00000183347,ENSG00000162654,ENSG00000154451,ENSG00000117228
99	ENSXETG00000004804	1.261008372	0.000119134	fam84b	family with se	ENSG00000168672
100	ENSXETG00000009634	1.260229133	2.04E-14	csrnp2	cysteine-serin	ENSG00000110925
101	ENSXETG00000014022	1.260187426	1.95E-07	sertad2	SERTA domai	ENSG00000179833
102	ENSXETG00000009544	1.240310394	0.00021702	pif1	PIF1 5'-to-3' D	ENSG00000140451
103	ENSXETG00000001534	1.239018694	4.61E-17	enpp6	ectonucleotid	ENSG00000164303
104	ENSXETG00000018449	1.238890907	1.68E-16	gatsl2	cytosolic argi	ENSG00000239521,ENSG00000274070
105	ENSXETG00000030007	1.237643666	0.001200084	HSF4		ENSG00000102878
106	ENSXETG00000001035	1.236581709	4.90E-10	fam132a	C1q and TNF r	ENSG00000184163
107	ENSXETG00000013702	1.236284033	1.67E-91	mical2	microtubule a	ENSG00000133816
108	ENSXETG00000024509	1.234604444	5.57E-11	slc25a23	solute carrier	ENSG00000181240,ENSG00000125648
109	ENSXETG00000009117	1.232297491	4.78E-56	bend7	BEN domain c	ENSG00000165626
110	ENSXETG00000012298	1.231053013	1.33E-35	pard6b	par-6 family c	ENSG00000124171
111	ENSXETG00000000527	1.230938248	0.001457299	dmgdh	dimethylglyci	ENSG00000132837
112	ENSXETG00000014366	1.214101894	1.10E-13	flvcr1	feline leukem	ENSG00000162769
113	ENSXETG00000000108	1.212651115	0.000123578	slc18b1	solute carrier	ENSG00000146409
114	ENSXETG00000013518	1.204861085	1.38E-23	insr	insulin recept	ENSG00000171105
115	ENSXETG00000030174	1.195979866	4.34E-06	WDR60		ENSG00000126870
116	ENSXETG00000024550	1.191634072	1.43E-05	mycbp2	MYC binding	ENSG00000005810
117	ENSXETG00000005275	1.191018917	0.006029657	myom3	myomesin 3	ENSG00000142661
118	ENSXETG00000019001	1.186395619	0	npc1l1	NPC1 like 1	ENSG00000015520
119	ENSXETG00000018194	1.18566971	2.83E-06	eva1a	eva-1 homolo	ENSG00000115363
120	ENSXETG00000012186	1.185579368	3.16E-05	ccnj	cyclin J	ENSG00000107443
121	ENSXETG00000021761	1.185203183	5.44E-12	iqce	IQ motif conta	ENSG00000106012
122	ENSXETG00000006614	1.183462807	4.89E-71	sgms1	sphingomyeli	ENSG00000198964
123	ENSXETG00000021123	1.179459524	8.09E-10	rora	RAR related o	ENSG00000069667
124	ENSXETG00000021337	1.178601995	2.51E-50	slc16a10	solute carrier	ENSG00000112394
125	ENSXETG00000018781	1.175576034	1.91E-05	avpr1a	arginine vaso	ENSG00000166148
126	ENSXETG00000007079	1.173654994	1.13E-87	sesn3	sestrin 3	ENSG00000149212
127	ENSXETG00000008208	1.157832856	1.22E-23	gmcl1	germ cell-less	ENSG00000087338
128	ENSXETG00000030142	1.157441144	1.29E-93	C2CD2		ENSG00000157617
129	ENSXETG00000019693	1.147965975	8.05E-05	xylt1	xylosyltransfe	ENSG00000103489
130	ENSXETG00000014375	1.143318391	1.42E-27	atf3	activating tra	ENSG00000162772
131	ENSXETG00000000925	1.142852852	7.41E-30	slc44a1	solute carrier	ENSG00000070214
132	ENSXETG00000003961	1.13982522	5.48E-78	entpd8	ectonucleosid	ENSG00000188833
133	ENSXETG00000014847	1.139823372	5.66E-128	foxo3	forkhead box	ENSG00000118689
134	ENSXETG00000013238	1.138444467	4.88E-92	fos	FBJ murine os	ENSG00000170345
135	ENSXETG00000000709	1.13717954	4.10E-16	prlr	prolactin rece	ENSG00000113494
136	ENSXETG00000001148	1.134313007	0	mgam	maltase-gluco	ENSG00000090402
137	ENSXETG00000006696	1.132650443	4.61E-06	dagla	diacylglycerol	ENSG00000134780
138	ENSXETG00000007703	1.132588531	6.72E-132	XB-GENE-986840	Putative orth	ENSG00000273554,ENSG00000130821
139	ENSXETG00000025190	1.131118727	8.39E-12	lrrc8b	leucine rich re	ENSG00000197147
140	ENSXETG00000003926	1.125181274	0.006116431	nxpe1	neurexophilin	ENSG00000204361,ENSG00000137634,ENSG00000095110
141	ENSXETG00000000997	1.123933512	4.61E-20	kiaa1109	KIAA1109	ENSG00000138688
142	ENSXETG00000010658	1.121400962	2.95E-60	vdr	vitamin D rec	ENSG00000111424
143	ENSXETG00000018124	1.117252461	1.77E-154	cldn2	claudin 2	ENSG00000165376
144	ENSXETG00000005929	1.116602965	1.29E-130	usp4	ubiquitin spec	ENSG00000114316
145	ENSXETG00000018211	1.114958758	2.49E-22	atad2b	ATPase family	ENSG00000119778
146	ENSXETG00000002669	1.113912444	2.52E-27	kdm7a	lysine (K)-spe	ENSG00000006459
147	ENSXETG00000031047	1.111947055	0.004258446	ENSXETG00000031047		ENSG00000119547
148	ENSXETG00000009700	1.111104971	4.63E-19	rin2	Ras and Rab i	ENSG00000132669
149	ENSXETG00000017875	1.108625946	1.46E-45	pdxk	pyridoxal kina	ENSG00000160209
150	ENSXETG00000001397	1.102925977	0.002010277	runx2	runt related t	ENSG00000124813
151	ENSXETG00000022373	1.101830077	3.42E-14	vsig10	V-set and imm	ENSG00000176834
152	ENSXETG00000008725	1.100187578	0	arl14	ADP ribosylat	ENSG00000179674
153	ENSXETG00000000121	1.099673858	8.58E-28	kif13b	kinesin family	ENSG00000197892
154	ENSXETG00000020402	1.099579929	1.07E-25	tapbp	TAP binding p	ENSG00000231925
155	ENSXETG00000011649	1.097995641	1.38E-09	cdkn2d	cyclin-depend	ENSG00000129355
156	ENSXETG00000019612	1.097385972	2.29E-51	entpd2	ectonucleosid	ENSG00000054179
157	ENSXETG00000000520	1.09617483	1.69E-15	jmy	junction medi	ENSG00000152409
158	ENSXETG00000001631	1.094606701	0.000130831	ENSXETG00000001631		ENSG00000248487
159	ENSXETG00000030874	1.094126459	1.52E-14	xkr8		ENSG00000158156
160	ENSXETG00000023750	1.09288333	2.97E-28	slc45a4	solute carrier	ENSG00000022567
161	ENSXETG00000004166	1.092808156	3.07E-21	sowaha	sosondowah a	ENSG00000198944
162	ENSXETG00000014752	1.089872771	0.007595737	grk7	G protein-cou	ENSG00000114124
163	ENSXETG00000024399	1.08936778	1.81E-06	thra		ENSG00000126351
164	ENSXETG00000023058	1.086431833	1.06E-05	invs	inversin	ENSG00000119509
165	ENSXETG00000018793	1.084319121	3.29E-07	ppm1h	protein phosp	ENSG00000111110
166	ENSXETG00000008672	1.081339912	5.00E-09	atg5	autophagy rel	ENSG00000057663
167	ENSXETG00000010165	1.07962628	3.18E-08	sik2	salt inducible	ENSG00000170145
168	ENSXETG00000008813	1.077630196	7.52E-18	ccny	cyclin Y	ENSG00000108100
169	ENSXETG00000026476	1.075143183	0.003323411	arl6	ADP ribosylat	ENSG00000113966
170	ENSXETG00000016815	1.07435053	8.23E-27	fcho2	FCH domain c	ENSG00000157107
171	ENSXETG00000014805	1.073765227	1.02E-11	ENSXETG00000014805		ENSG00000198399
172	ENSXETG00000030813	1.072004308	1.48E-181	ENSXETG00000030813		ENSG00000079432
173	ENSXETG00000010942	1.070366474	0.006117445	dct	dopachrome t	ENSG00000080166
174	ENSXETG00000007257	1.070235893	2.51E-103	esr2	estrogen rece	ENSG00000140009
175	ENSXETG00000007289	1.066788225	1.77E-40	glcci1	glucocorticoid	ENSG00000106415
176	ENSXETG00000030682	1.065070449	1.09E-34	ENSXETG00000030682		ENSG00000149485
177	ENSXETG00000016587	1.056565427	2.54E-268	hmgcs1	3-hydroxy-3-m	ENSG00000112972
178	ENSXETG00000002240	1.056488571	0.015354828	palm2	paralemmin 2	ENSG00000243444
179	ENSXETG00000013207	1.056053803	5.67E-40	gba2	glucosidase, b	ENSG00000070610
180	ENSXETG00000004200	1.053709232	9.35E-11	ENSXETG00000004200		ENSG00000141519
181	ENSXETG00000007493	1.052755942	0.000389579	tll2	tolloid like 2	ENSG00000095587
182	ENSXETG00000000723	1.051899822	1.44E-05	nacc2	NACC family r	ENSG00000148411
183	ENSXETG00000022960	1.051379268	1.68E-132	aqp10	aquaporin 10	ENSG00000143595
184	ENSXETG00000022542	1.04955626	1.19E-05	ptpdc1	protein tyrosi	ENSG00000158079
185	ENSXETG00000007559	1.046804178	6.80E-05	ehf	ETS homolog	ENSG00000135373
186	ENSXETG00000014202	1.046237982	5.78E-45	ENSXETG00000014202		ENSG00000137177
187	ENSXETG00000021787	1.043327297	9.02E-06	rbms2	RNA binding m	ENSG00000076067
188	ENSXETG00000021703	1.040810705	2.35E-12	fmnl2	formin like 2	ENSG00000157827
189	ENSXETG00000005328	1.038360533	4.72E-11	tanc2	tetratricopep	ENSG00000170921
190	ENSXETG00000015978	1.036990082	2.86E-20	ski	SKI proto-onc	ENSG00000157933
191	ENSXETG00000011184	1.033214947	4.51E-36	lmbr1l	limb develop	ENSG00000139636
192	ENSXETG00000008198	1.032234226	0.005222991	antxr1	anthrax toxin	ENSG00000169604
193	ENSXETG00000016718	1.030679664	0.002592309	nfix	nuclear factor	ENSG00000008441
194	ENSXETG00000002076	1.0281173	0.021882925	gdf3	growth differ	ENSG00000184344,ENSG00000223802,ENSG00000130283
195	ENSXETG00000010911	1.024781998	2.08E-06	ENSXETG00000010911		ENSG00000105366,ENSG00000142512,ENSG00000105501,ENSG00000105383,ENSG00000254415,ENSG00000105492,ENSG00000268500,ENSG00000161640,ENSG00000168995,ENSG00000254521,ENSG00000129450

196	ENSXETG00000008940	-1.201255286	7.49E-36	lamb3	laminin subur	ENSG00000196878
197	ENSXETG00000003895	-1.19825517	1.57E-08	gpt	glutamic-pyru	ENSG00000166123
198	ENSXETG00000017913	-1.197110441	3.04E-53	st3gal4	ST3 beta-gala	ENSG00000110080
199	ENSXETG00000013347	-1.193147498	5.53E-18	gpm6b	glycoprotein I	ENSG00000046653
200	ENSXETG00000027362	-1.191477343	0.001926071	wisp2	WNT1 inducib	ENSG00000064205
201	ENSXETG00000019306	-1.188738414	0	lct.2	lactase, gene	ENSG00000115850
202	ENSXETG00000026395	-1.182784178	8.06E-12	nmral1	NmrA-like fan	ENSG00000153406
203	ENSXETG00000003085	-1.182417772	5.09E-05	lcat	lecithin-chole	ENSG00000213398
204	ENSXETG00000010035	-1.180190778	0.004107916	tshr	thyroid stimu	ENSG00000165409
205	ENSXETG00000024067	-1.179652838	2.30E-05	otoa	otoancorin	ENSG00000155719
206	ENSXETG00000009695	-1.17932307	0.007238335	atp2a1	ATPase, Ca++	ENSG00000196296
207	ENSXETG00000011201	-1.175856441	0.005944592	cat1	calcium trans	ENSG00000127412,ENSG00
208	ENSXETG00000022798	-1.173011404	1.42E-11	sostdc1	sclerostin dor	ENSG00000171243
209	ENSXETG00000016321	-1.170036922	1.69E-10	glp2r	glucagon-like	ENSG00000065325
210	ENSXETG00000001697	-1.169717217	2.91E-07	olfml3	olfactomedin	ENSG00000116774
211	ENSXETG00000029928	-1.169387085	8.27E-25	gas1		ENSG00000180447
212	ENSXETG00000011444	-1.164634759	1.90E-05	ppic	peptidylproly	ENSG00000168938
213	ENSXETG00000014933	-1.163860359	1.03E-22	tbc1d9	TBC1 domain	ENSG00000109436
214	ENSXETG00000004748	-1.161771812	4.07E-05	olfml2b	olfactomedin	ENSG00000162745
215	ENSXETG00000012115	-1.160977009	8.58E-05	l3mbtl1	L3MBTL1, hist	ENSG00000185513
216	ENSXETG00000000377	-1.160966431	9.43E-13	fras1	Fraser extrace	ENSG00000138759
217	ENSXETG00000030481	-1.160266006	7.06E-09	angptl1		ENSG00000116194
218	ENSXETG00000006912	-1.154105735	2.20E-15	pdgfb	platelet deriv	ENSG00000100311
219	ENSXETG00000015525	-1.149242651	0.000723506	arsj	arylsulfatase f	ENSG00000180801
220	ENSXETG00000023157	-1.146923547	1.92E-06	ptpn14	protein tyrosi	ENSG00000152104
221	ENSXETG00000017719	-1.140106518	2.28E-31	pde7b	phosphodiest	ENSG00000171408
222	ENSXETG00000021601	-1.135843414	1.22E-17	CHAC1		ENSG00000128965
223	ENSXETG00000018291	-1.134575776	4.27E-118	cebpa	CCAAT/enhan	ENSG00000245848
224	ENSXETG00000026528	-1.132232967	0.000102979	havcr1	hepatitis A vir	ENSG00000113249,ENSG00000135077
225	ENSXETG00000024581	-1.127237976	0.009839862	ENSXETG00000024581		ENSG00000086159
226	ENSXETG00000002499	-1.126895743	3.77E-35	apom	apolipoprotei	ENSG00000204444
227	ENSXETG00000011677	-1.123918388	1.34E-43	rasl11b	RAS like famil	ENSG00000128045
228	ENSXETG00000002211	-1.123465858	0	srsf5	serine/argini	ENSG00000100650
229	ENSXETG00000025827	-1.122568557	0.00509518	fshr	follicle stimul	ENSG00000170820
230	ENSXETG00000013866	-1.121341556	0.000821798	arhgef4	Rho guanine r	ENSG00000136002
231	ENSXETG00000026706	-1.118428437	0.010875401	XB-GENE-577	nat8 protein	ENSG00000144035
232	ENSXETG00000004974	-1.115566557	1.64E-05	stac	SH3 and cyste	ENSG00000144681
233	ENSXETG00000010979	-1.111787423	0.011480559	tctex1d4	Tctex1 domai	ENSG00000188396
234	ENSXETG00000024952	-1.104265815	0.006809725	tnnt3	troponin T3, f	ENSG00000130595
235	ENSXETG00000017087	-1.102909836	0.010244712	tnni1	troponin I1, s	ENSG00000159173
236	ENSXETG00000016596	-1.1013736	0.000156742	plxdc2	plexin domair	ENSG00000120594
237	ENSXETG00000009523	-1.100964246	1.84E-08	htr2b	5-hydroxytryp	ENSG00000135914
238	ENSXETG00000019257	-1.09974415	0.000412722	rab34	RAB34, memb	ENSG00000109113
239	ENSXETG00000001179	-1.094870557	2.65E-07	dlg4	discs, large ho	ENSG00000132535
240	ENSXETG00000027636	-1.092182944	0.010701197	c1r	complement (	ENSG00000159403,ENSG00000139178
241	ENSXETG00000018908	-1.091475661	7.75E-26	rgcc	regulator of c	ENSG00000102760
242	ENSXETG00000029207	-1.09011122	1.91E-05	xtr-mir-34a		ENSG00000207865
243	ENSXETG00000024869	-1.08072043	6.40E-234	sptssa	serine palmit	ENSG00000165389
244	ENSXETG00000004225	-1.080475607	3.59E-10	upb1	ureidopropio	ENSG00000100024
245	ENSXETG00000002008	-1.080393342	3.17E-93	lama5	laminin subur	ENSG00000130702
246	ENSXETG00000020653	-1.078295976	1.23E-103	id3	inhibitor of D	ENSG00000117318
247	ENSXETG00000001780	-1.076941397	3.48E-08	ptgis	prostaglandin	ENSG00000124212
248	ENSXETG00000026722	-1.076243588	0.010767049	ambp	alpha-1-micro	ENSG00000106927
249	ENSXETG00000021481	-1.069682865	2.94E-10	lrig3	leucine-rich r	ENSG00000139263
250	ENSXETG00000024105	-1.068387181	0.003514789	negr1	neuronal grov	ENSG00000172260
251	ENSXETG00000005331	-1.068288459	1.82E-11	mrc2	mannose rece	ENSG00000011028
252	ENSXETG00000003088	-1.064556072	0.016684156	clca3p	chloride chan	ENSG00000016602,ENSG00000016490,ENSG00000137975
253	ENSXETG00000004609	-1.064397887	0.001327295	fibin	fin bud initiat	ENSG00000176971
254	ENSXETG00000007851	-1.064211397	2.73E-12	crtap	cartilage asso	ENSG00000170275
255	ENSXETG00000010716	-1.061745353	3.32E-07	ckap4	cytoskeleton-	ENSG00000136026
256	ENSXETG00000001839	-1.060661484	2.58E-05	fhdc1	FH2 domain c	ENSG00000137460
257	ENSXETG00000010851	-1.059885619	0.000502152	kank4	KN motif and	ENSG00000132854
258	ENSXETG00000018157	-1.0555499	0.017720819	mrap2	melanocortin	ENSG00000135324
259	ENSXETG00000000593	-1.054579317	1.87E-14	pcolce2	procollagen C	ENSG00000163710
260	ENSXETG00000014317	-1.054376361	0.012949452	hspa12a	heat shock pr	ENSG00000165868
261	ENSXETG00000007538	-1.052035535	6.49E-97	fam134b	reticulophagy	ENSG00000154153
262	ENSXETG00000027815	-1.051940732	4.05E-05	vcan	versican	ENSG00000038427
263	ENSXETG00000022606	-1.051798736	5.34E-24	ENSXETG00000022606		ENSG00000160870,ENSG00000021461,ENSG00000106258,ENSG00000160868
264	ENSXETG00000012841	-1.050502	0.018075573	mc3r	melanocortin	ENSG00000124089
265	ENSXETG00000008803	-1.049843974	9.56E-122	atf5	activating tra	ENSG00000169136
266	ENSXETG00000009863	-1.049434263	0.012702139	adamts12	ADAM metall	ENSG00000151388
267	ENSXETG00000010379	-1.048741924	9.53E-40	upp2	uridine phosp	ENSG00000007001
268	ENSXETG00000001781	-1.047983044	1.78E-24	fbn3	fibrillin 3	ENSG00000142449
269	ENSXETG00000030758	-1.047207953	7.73E-29	ENSXETG00000030758		ENSG00000240224,ENSG00000241635,ENSG00000244474,ENSG00000243135
270	ENSXETG00000016183	-1.041911272	0.007617507	otol1	otolin 1	ENSG00000114270
271	ENSXETG00000003340	-1.03797792	1.57E-22	f2rl2	coagulation fa	ENSG00000164220
272	ENSXETG00000015989	-1.036619701	1.05E-12	frem2	FRAS1 related	ENSG00000150893
273	ENSXETG00000024840	-1.036404162	7.65E-28	c21orf62	chromosome	ENSG00000205929
274	ENSXETG00000000717	-1.036322061	2.59E-09	hoxa3	homeobox A3	ENSG00000105997,ENSG00000128652,ENSG00000120093
275	ENSXETG00000008600	-1.034796567	4.97E-248	DPYD		ENSG00000188641
276	ENSXETG00000017604	-1.034008922	1.72E-38	nbl1	neuroblastom	ENSG00000270136,ENSG00000158747
277	ENSXETG00000011119	-1.033185541	2.49E-12	mxra8	matrix-remod	ENSG00000162576
278	ENSXETG00000001185	-1.0325884	1.95E-256	mfsd2a	major facilitat	ENSG00000168389
279	ENSXETG00000014111	-1.032272017	1.81E-34	npnt	nephronectin	ENSG00000168743
280	ENSXETG00000003899	-1.031282994	3.83E-165	grhl3	grainyhead lik	ENSG00000158055
281	ENSXETG00000024527	-1.028754653	0.004813231	cfap70	cilia and flage	ENSG00000206538
282	ENSXETG00000002609	-1.028178532	5.75E-20	svep1	sushi, von Wi	ENSG00000165124
283	ENSXETG00000003384	-1.027559504	0.000327828	nags	N-acetylgluta	ENSG00000161653
284	ENSXETG00000027478	-1.027000331	1.42E-82	anxa1	annexin A1	ENSG00000135046
285	ENSXETG00000004177	-1.024959363	2.47E-27	itga2	integrin subu	ENSG00000164171
286	ENSXETG00000023967	-1.023225302	0.009956675	LRTOMT		ENSG00000184154
287	ENSXETG00000014398	-1.021420704	0.022394577	myrip	myosin VIIA a	ENSG00000170011
288	ENSXETG00000002363	-1.021184862	5.93E-07	vwa5a.2	von Willebran	ENSG00000110002
289	ENSXETG00000004196	-1.020995886	2.62E-09	pisd	phosphatidyls	ENSG00000241878
290	ENSXETG00000023475	-1.020626044	0.015799056	hoxc9	homeobox C9	ENSG00000180806
291	ENSXETG00000030515	-1.020585597	1.96E-23	ENSXETG00000030515		ENSG00000104870,ENSG00000204520,ENSG00000204516
292	ENSXETG00000030085	-1.020300126	5.34E-07	SMOC1		ENSG00000198732
293	ENSXETG00000017586	-1.019815578	0.012033898	fbp2	fructose-bisp	ENSG00000130957
294	ENSXETG00000013014	-1.019658785	6.77E-09	chaf1b	chromatin ass	ENSG00000159259
295	ENSXETG00000017807	-1.016711668	1.14E-12	spry2	sprouty RTK s	ENSG00000136158
296	ENSXETG00000015816	-1.015678901	0.001869769	blvra	biliverdin red	ENSG00000106605
297	ENSXETG00000019757	-1.015648249	4.56E-06	masp1	mannan-bind	ENSG00000127241
298	ENSXETG00000012265	-1.015524936	0.000847198	kcne3	potassium ch	ENSG00000175538
299	ENSXETG00000012422	-1.009732594	2.61E-05	tmprss15	transmembra	ENSG00000154646
300	ENSXETG00000018293	-1.008593417	0.00275619	kcnip1	Kv channel in	ENSG00000182132
301	ENSXETG00000014993	-1.007132863	1.36E-13	kcp	kielin/chordin	ENSG00000135253
302	ENSXETG00000024219	-1.006264774	0.013355415	a2m	alpha-2-macr	ENSG00000175899,ENSG00000126838
303	ENSXETG00000007561	-1.005588363	0.020194527	cat.1	catalase, gene	ENSG00000121691
304	ENSXETG00000027689	-1.00517721	0.021941899	tmem229a	transmembra	ENSG00000234224
305	ENSXETG00000020282	-1.002463127	1.32E-06	itga8	integrin subu	ENSG00000077943

196	ENSXETG00000013638	1.024609702	5.58E-05	adamts5	ADAM metall	ENSG00000154736
197	ENSXETG00000006665	1.024270231	1.34E-19	tp53inp1	tumor protein	ENSG00000164938
198	ENSXETG00000004766	1.022593276	8.14E-128	junb	jun B proto-o	ENSG00000171223
199	ENSXETG00000019424	1.021969465	1.70E-108	slc36a1	solute carrier	ENSG00000186334,ENSG00000186335,ENSG00000123643
200	ENSXETG00000020570	1.01886157	3.82E-22	colgalt1	collagen beta	ENSG00000130309
201	ENSXETG00000006166	1.018761051	1.90E-54	FRK		ENSG00000111816
202	ENSXETG00000007405	1.017784442	1.29E-101	dfna5	gasdermin E	ENSG00000105928
203	ENSXETG00000003160	1.016742827	2.15E-05	dbp	D site of albu	ENSG00000105516
204	ENSXETG00000000302	1.010777527	9.14E-186	ganc	glucosidase, a	ENSG00000214013
205	ENSXETG00000008154	1.010111975	9.74E-05	ppp1r3b	protein phosp	ENSG00000173281
206	ENSXETG00000030544	1.009942429	0.018181791	ENSXETG00000030544		ENSG00000188211
207	ENSXETG00000000914	1.007717747	9.92E-280	msmo1		ENSG00000052802
208	ENSXETG00000021811	1.005293348	1.24E-05	map3k9	mitogen-activ	ENSG00000006432
209	ENSXETG00000023881	1.00151899	5.67E-06	kif9	kinesin family	ENSG00000088727
210	ENSXETG00000012850	1.000653383	3.01E-98	lpp	LIM domain c	ENSG00000145012

Supplemental Table 2C. Genes with at least 2 fold change in expression after T3 treatment in wild type tadpoles.

2-fold change (DOWN)

No	Gene ID	log2FoldChange	padj	Gene Symbol	Gene Name	Ensemble_Human ID
1	ENSXETG00000026601	-5.042084631	2.22E-106	gsto1	glutathione S-	ENSG00000065621,ENSG00
2	ENSXETG00000017935	-5.031118912	3.17E-199	ugt2a1	UDP glucuron	ENSG00000135226,ENSG00
3	ENSXETG00000026395	-4.848501767	3.52E-109	nmral1	NmrA-like fan	ENSG00000153406
4	ENSXETG00000022374	-4.45475986	3.86E-101	baat	bile acid-CoA:	ENSG00000136881
5	ENSXETG00000008828	-3.846131891	3.30E-117	hspa1b	heat shock pr	ENSG00000173110,ENSG00
6	ENSXETG00000011266	-3.672831748	0	pck1	phosphoenolp	ENSG00000124253
7	ENSXETG00000017527	-3.590414923	4.34E-121	cyp24a1	cytochrome P	ENSG00000019186
8	ENSXETG00000006714	-3.444211601	1.06E-44	hspa1l	heat shock pr	ENSG00000173110,ENSG00
9	ENSXETG00000024078	-3.378201781	7.39E-99	hsp70	heat shock 70	ENSG00000173110,ENSG00
10	ENSXETG00000003683	-3.372726402	8.25E-191	pth1r	parathyroid h	ENSG00000160801
11	ENSXETG00000022606	-3.34797732	6.88E-164	ENSXETG00000022606		ENSG00000160870,ENSG00
12	ENSXETG00000020334	-3.19549002	2.21E-62	fgfbp1	fibroblast gro	ENSG00000137440
13	ENSXETG00000014927	-3.17313786	0	ucp1	uncoupling pr	ENSG00000109424
14	ENSXETG00000010379	-3.068627259	1.09E-140	upp2	uridine phosp	ENSG00000007001
15	ENSXETG00000027880	-3.041364145	0	dusp1	dual specificit	ENSG00000120129
16	ENSXETG00000011549	-3.03210844	2.86E-157	klf15	Kruppel-like f	ENSG00000163884
17	ENSXETG00000022391	-2.945209582	9.59E-92	lipg	lipase, endoth	ENSG00000101670
18	ENSXETG00000011179	-2.932800867	0	ptger3	prostaglandin	ENSG00000050628
19	ENSXETG00000016153	-2.910721615	2.80E-118	pla2g3	phospholipase	ENSG00000100078
20	ENSXETG00000000655	-2.835389374	2.91E-16	trim50	tripartite mot	ENSG00000146755,ENSG00
21	ENSXETG00000025489	-2.806005994	1.95E-54	fgf19	fibroblast gro	ENSG00000162344
22	ENSXETG00000009352	-2.790553968	0	ldlr	low density lip	ENSG00000130164
23	ENSXETG00000011685	-2.730001776	1.14E-274	slc1a1	solute carrier	ENSG00000106688
24	ENSXETG00000023898	-2.632263813	0	duox2	dual oxidase 2	ENSG00000137857,ENSG00
25	ENSXETG00000026976	-2.581826585	0	ddit4	DNA damage-i	ENSG00000168209
26	ENSXETG00000027309	-2.539811709	9.35E-19	apold1	apolipoprotei	ENSG00000178878
27	ENSXETG00000000804	-2.492762531	0	nfil3	nuclear factor	ENSG00000165030
28	ENSXETG00000030969	-2.467000134	4.84E-17	ENSXETG00000030969		ENSG00000135917
29	ENSXETG00000016264	-2.441629343	0	ENSXETG00000016264		ENSG00000168060
30	ENSXETG00000030740	-2.44001958	0	ENSXETG00000030740		ENSG00000168060
31	ENSXETG00000007216	-2.421699536	0	noxo1	NADPH oxida	ENSG00000196408
32	ENSXETG00000003335	-2.400464996	4.06E-10	slc7a11	solute carrier	ENSG00000151012
33	ENSXETG00000026715	-2.313597417	1.21E-61	spef1	sperm flagella	ENSG00000144063
34	ENSXETG00000021601	-2.309365605	3.65E-71	CHAC1		ENSG00000128965
35	ENSXETG00000006170	-2.298812139	7.59E-09	ccdc13	coiled-coil do	ENSG00000244607
36	ENSXETG00000020235	-2.284406064	8.60E-09	stra8	stimulated by	ENSG00000146857
37	ENSXETG00000011551	-2.25187152	0	aldh1l1	aldehyde deh	ENSG00000144908
38	ENSXETG00000012583	-2.250795371	0	g6pc2	glucose-6-pho	ENSG00000131482
39	ENSXETG00000010535	-2.226451977	6.04E-12	phyhip	phytanoyl-Co	ENSG00000168490
40	ENSXETG00000000506	-2.220125966	0	clca1	chloride chan	ENSG00000016602,ENSG00
41	ENSXETG00000030095	-2.208470607	1.18E-109	ENSXETG00000030095		ENSG00000188886
42	ENSXETG00000003301	-2.205689874	0	ttc39b	tetratricopept	ENSG00000155158
43	ENSXETG00000025827	-2.18584615	2.74E-18	fshr	follicle stimul	ENSG00000170820
44	ENSXETG00000030246	-2.166560545	8.13E-302	ENSXETG00000030246		ENSG00000016602,ENSG00
45	ENSXETG00000019843	-2.155869148	0	dpep1	dipeptidase 1	ENSG00000015413
46	ENSXETG00000017433	-2.142842833	2.67E-17	il17c	interleukin 17	ENSG00000124391
47	ENSXETG00000008034	-2.133678343	0	ENSXETG00000008034		ENSG00000144410
48	ENSXETG00000021353	-2.114442925	0	wsb1	WD repeat an	ENSG00000109046
49	ENSXETG00000009576	-2.107793133	1.42E-94	oat.2	ornithine ami	ENSG00000065154
50	ENSXETG00000022727	-2.0699038	7.75E-09	wnt16	Wnt family m	ENSG00000002745
51	ENSXETG00000012999	-2.065688833	2.82E-63	cbs	cystathionine	ENSG00000160200,ENSG00
52	ENSXETG00000010251	-2.059095282	2.00E-42	hsp90aa1.1	heat shock pr	ENSG00000080824
53	ENSXETG00000015911	-2.054736141	6.15E-07	zp4	zona pellucida	ENSG00000149506
54	ENSXETG00000000286	-2.039540534	0	cdknx	cyclin-depend	ENSG00000111276
55	ENSXETG00000021016	-1.963912969	0	gstp1	glutathione S-	ENSG00000084207
56	ENSXETG00000002122	-1.961432878	2.25E-21	sod3	superoxide di	ENSG00000109610
57	ENSXETG00000011465	-1.949919735	0	zc3h12a	zinc finger CC	ENSG00000163874
58	ENSXETG00000023815	-1.943927683	5.88E-125	socs2	suppressor of	ENSG00000120833
59	ENSXETG00000018157	-1.941685271	2.67E-06	mrap2	melanocortin	ENSG00000135324
60	ENSXETG00000020097	-1.940100356	1.89E-06	clrn1	clarin 1	ENSG00000163646,ENSG00
61	ENSXETG00000031156	-1.896542682	2.51E-121	ENSXETG00000031156		ENSG00000269693
62	ENSXETG00000000543	-1.888812307	0	gldc	glycine decarb	ENSG00000178445
63	ENSXETG00000005319	-1.88105506	2.63E-21	nccrp1	non-specific c	ENSG00000188505
64	ENSXETG00000020289	-1.874734435	0	pdk4	pyruvate deh	ENSG00000004799
65	ENSXETG00000004023	-1.873403756	6.34E-61	zfand2a	zinc finger, AN	ENSG00000178381
66	ENSXETG00000007458	-1.855431483	2.60E-55	st8sia6	ST8 alpha-N-a	ENSG00000148488
67	ENSXETG00000031120	-1.828700644	3.62E-65	CH25H		ENSG00000138135
68	ENSXETG00000028792	-1.825790906	3.90E-06	SNORD16		ENSG00000199673
69	ENSXETG00000023865	-1.822780966	0	slco4c1	solute carrier	ENSG00000173930,ENSG00
70	ENSXETG00000024204	-1.816005348	3.13E-33	arntl	aryl hydrocarb	ENSG00000133794
71	ENSXETG00000003899	-1.806789357	0	grhl3	grainyhead lik	ENSG00000158055
72	ENSXETG00000026010	-1.804002668	0	ca3	carbonic anhy	ENSG00000185015
73	ENSXETG00000013678	-1.799758253	4.32E-06	NT5DC2		ENSG00000168268
74	ENSXETG00000021893	-1.79164858	2.41E-176	angptl4	angiopoietin l	ENSG00000167772
75	ENSXETG00000015619	-1.789080256	0	slc6a19	solute carrier	ENSG00000174358
76	ENSXETG00000015966	-1.785224651	0	gcat	glycine C-acet	ENSG00000100116
77	ENSXETG00000028984	-1.774743842	9.18E-06	xtr-mir-101a-2		ENSG00000199135
78	ENSXETG00000007731	-1.760231415	0	slc25a25	solute carrier	ENSG00000148339
79	ENSXETG00000023279	-1.753218938	4.59E-65	atoh1	atonal bHLH t	ENSG00000172238
80	ENSXETG00000000735	-1.751327583	6.58E-52	srpk2	SRSF protein k	ENSG00000184343
81	ENSXETG00000026845	-1.747399822	2.37E-08	ENSXETG00000026845		ENSG00000138068
82	ENSXETG00000004451	-1.743562588	1.45E-12	khdrbs2	KH domain co	ENSG00000112232
83	ENSXETG00000001882	-1.742708516	0	chst11	carbohydrate	ENSG00000171310
84	ENSXETG00000029194	-1.72776992	2.37E-05	xtr-mir-29a		ENSG00000277934
85	ENSXETG00000003502	-1.727636167	6.07E-37	mmachc	methylmalon	ENSG00000132763
86	ENSXETG00000011666	-1.707021403	2.05E-233	frrs1	ferric-chelate	ENSG00000156869
87	ENSXETG00000028882	-1.706930603	9.61E-06	SNORA2		ENSG00000202343,ENSG00
88	ENSXETG00000022588	-1.705627535	7.60E-18	mmp21	matrix metall	ENSG00000154485
89	ENSXETG00000024287	-1.695256456	4.21E-35	fah	fumarylaceto	ENSG00000103876
90	ENSXETG00000022572	-1.693638071	0	tsc22d3	TSC22 domain	ENSG00000157514
91	ENSXETG00000013304	-1.693208914	0	aldh6a1	aldehyde deh	ENSG00000119711
92	ENSXETG00000023631	-1.68988306	1.20E-21	ctbp2	C-terminal bin	ENSG00000175029
93	ENSXETG00000024478	-1.688890947	0	crip1	cysteine-rich	ENSG00000213145,ENSG00
94	ENSXETG00000007987	-1.686023785	1.49E-180	arg2	arginase 2	ENSG00000081181
95	ENSXETG00000004467	-1.685328061	8.44E-50	lpl	lipoprotein lip	ENSG00000175445
96	ENSXETG00000009896	-1.682542091	2.43E-09	eva1c	eva-1 homolo	ENSG00000166979
97	ENSXETG00000023425	-1.674072142	4.30E-12	akr1c2	aldo-keto red	ENSG00000187134,ENSG00
98	ENSXETG00000009108	-1.670914876	1.17E-16	rgs11	regulator of G	ENSG00000108370
99	ENSXETG00000030962	-1.669173401	8.42E-44	LONRF3		ENSG00000175556
100	ENSXETG00000021876	-1.668485679	2.70E-194	acsbg2	acyl-CoA synt	ENSG00000130377
101	ENSXETG00000007373	-1.660650213	3.41E-27	azin2	antizyme inhi	ENSG00000142920
102	ENSXETG00000022768	-1.658547659	4.80E-59	alpi.1	alkaline phos	ENSG00000163286,ENSG00
103	ENSXETG00000029017	-1.658545919	1.84E-06	xtr-let-7i		ENSG00000199179
104	ENSXETG00000017419	-1.655789002	6.16E-26	pdp2	pyruvate deh	ENSG00000172840
105	ENSXETG00000013364	-1.654690467	4.94E-51	rhobtb3	Rho-related B	ENSG00000164292
106	ENSXETG00000029207	-1.653397815	1.05E-10	xtr-mir-34a		ENSG00000207865
107	ENSXETG00000013830	-1.651731512	1.38E-22	plcd4	phospholipase	ENSG00000115556
108	ENSXETG00000021871	-1.64938799	0	dusp6	dual specificit	ENSG00000139318
109	ENSXETG00000026537	-1.645470886	0	gadd45g	growth arrest	ENSG00000130222
110	ENSXETG00000000292	-1.633550307	0	plekhg3	pleckstrin hor	ENSG00000126822
111	ENSXETG00000003405	-1.623293933	9.28E-21	slit1	slit guidance l	ENSG00000187122
112	ENSXETG00000030360	-1.621523613	1.30E-296	slc10a3		ENSG00000126903
113	ENSXETG00000000595	-1.614022369	4.29E-65	cdc37l1	cell division c	ENSG00000106993
114	ENSXETG00000021547	-1.614008366	1.52E-106	usp2	ubiquitin spec	ENSG00000036672
115	ENSXETG00000019626	-1.613622063	0.000114624	pah	phenylalanine	ENSG00000171759
116	ENSXETG00000023757	-1.613233113	0	scd	stearoyl-CoA	ENSG00000099194
117	ENSXETG00000030447	-1.609386397	6.71E-62	ENSXETG00000030447		ENSG00000184545
118	ENSXETG00000004189	-1.600660462	0	pik3ip1	phosphoinosi	ENSG00000100100
119	ENSXETG00000004126	-1.59471553	1.81E-40	plcxd1	phosphatidyli	ENSG00000182378
120	ENSXETG00000007231	-1.59192052	0	fgfr4	fibroblast gro	ENSG00000160867
121	ENSXETG00000001727	-1.591693907	8.70E-126	fam105a	family with se	ENSG00000145569
122	ENSXETG00000020238	-1.585778841	0.00011523	agbl3	ATP/GTP bind	ENSG00000146856
123	ENSXETG00000021090	-1.582934742	8.25E-06	ENSXETG00000021090		ENSG00000188886
124	ENSXETG00000015507	-1.576908796	0	rpl32	ribosomal pro	ENSG00000144713
125	ENSXETG00000012714	-1.570039666	2.06E-96	arhgef37	Rho guanine n	ENSG00000183111
126	ENSXETG00000029973	-1.567303751	2.08E-23	STXBP5L		ENSG00000145087
127	ENSXETG00000026914	-1.564589764	1.27E-06	ENSXETG00000026914		ENSG00000112115,ENSG00
128	ENSXETG00000023250	-1.564116829	3.21E-06	ENSXETG00000023250		ENSG00000124713
129	ENSXETG00000001179	-1.560728608	5.12E-19	dlg4	discs, large ho	ENSG00000132535
130	ENSXETG00000008929	-1.549925975	3.05E-11	ENSXETG00000008929		ENSG00000143387
131	ENSXETG00000006908	-1.549278072	2.10E-44	wnt2b	Wnt family m	ENSG00000134245
132	ENSXETG00000004899	-1.546589304	4.48E-253	lss	lanosterol syn	ENSG00000160285
133	ENSXETG00000005193	-1.542321688	5.50E-77	gramd3	GRAM domain	ENSG00000155324
134	ENSXETG00000012114	-1.538995957	7.93E-286	tnip2	TNFAIP3 inter	ENSG00000168884
135	ENSXETG00000027689	-1.538321339	9.62E-05	tmem229a	transmembra	ENSG00000234224
136	ENSXETG00000008786	-1.536060788	4.43E-05	fgf7	fibroblast gro	ENSG00000140285
137	ENSXETG00000009816	-1.533643327	0	fkbp11	FK506 binding	ENSG00000134285
138	ENSXETG00000027375	-1.530013651	2.56E-05	gcm1	glial cells miss	ENSG00000137270
139	ENSXETG00000015059	-1.52795375	2.37E-06	znf385b	zinc finger pro	ENSG00000144331
140	ENSXETG00000014752	-1.525734051	0.000178276	grk7	G protein-cou	ENSG00000114124
141	ENSXETG00000002782	-1.525329812	0	gltscr2	NOP53 riboso	ENSG00000105373
142	ENSXETG00000007376	-1.520767421	0	rsl24d1	ribosomal L24	ENSG00000137876
143	ENSXETG00000008728	-1.517558101	7.21E-53	sptssb	serine palmito	ENSG00000196542
144	ENSXETG00000014933	-1.51449662	4.56E-33	tbc1d9	TBC1 domain f	ENSG00000109436
145	ENSXETG00000016704	-1.508191516	8.13E-28	zp2	zona pellucida	ENSG00000103310
146	ENSXETG00000017288	-1.505158292	2.28E-29	fam131a	family with se	ENSG00000175182
147	ENSXETG00000027130	-1.495630392	6.68E-40	ENSXETG00000027130		ENSG00000136881
148	ENSXETG00000018268	-1.493639081	0	slc7a9	solute carrier	ENSG00000021488
149	ENSXETG00000006998	-1.481789861	1.26E-34	ENSXETG00000006998	NF-kappa-B in	ENSG00000144802
150	ENSXETG00000006245	-1.477276242	1.18E-301	ddit3	DNA damage	ENSG00000175197
151	ENSXETG00000016395	-1.477139893	8.08E-13	chrna7	cholinergic re	ENSG00000166664,ENSG00
152	ENSXETG00000002211	-1.476320679	0	srsf5	serine/argini	ENSG00000100650
153	ENSXETG00000007899	-1.476131877	0	cxcl14	chemokine (C	ENSG00000145824
154	ENSXETG00000026816	-1.476130421	2.33E-36	ENSXETG00000026816		ENSG00000164893
155	ENSXETG00000026359	-1.47384833	7.43E-66	arv1	ARV1 homolo	ENSG00000173409
156	ENSXETG00000006545	-1.469158552	2.87E-40	polrmt	polymerase (R	ENSG00000099821
157	ENSXETG00000002388	-1.458141101	0.000462013	poln	polymerase (D	ENSG00000130997
158	ENSXETG00000006824	-1.45589719	0.000549886	cacna1g	calcium chan	ENSG00000006283
159	ENSXETG00000012160	-1.455019147	0	srebf1	sterol regulat	ENSG00000072310
160	ENSXETG00000026901	-1.45345314	2.57E-184	vrk3	vaccinia relat	ENSG00000105053
161	ENSXETG00000029154	-1.452570723	0.000534297	xtr-mir-29c		ENSG00000275668
162	ENSXETG00000009354	-1.447928838	2.09E-237	pim1	Pim-1 proto-o	ENSG00000137193
163	ENSXETG00000019070	-1.446721916	5.08E-76	tbcb	tubulin foldin	ENSG00000105254
164	ENSXETG00000008746	-1.441629064	4.91E-06	slamf8	SLAM family r	ENSG00000158714
165	ENSXETG00000012655	-1.43755359	3.71E-30	ENSXETG00000012655		ENSG00000182405
166	ENSXETG00000024584	-1.436407834	5.39E-08	nalcn	sodium leak c	ENSG00000102452
167	ENSXETG00000006380	-1.432734441	5.46E-79	ereg	epiregulin	ENSG00000124882
168	ENSXETG00000016053	-1.432023503	4.10E-07	kctd17	potassium ch	ENSG00000100379
169	ENSXETG00000008836	-1.431887439	0	ddx21	DEAD-box hel	ENSG00000165732,ENSG00
170	ENSXETG00000003563	-1.430526661	5.01E-46	mthfsd	methenyltetra	ENSG00000103248
171	ENSXETG00000019506	-1.427563444	9.00E-32	st6galnac2	ST6 (alpha-N-	ENSG00000070731
172	ENSXETG00000002835	-1.42116526	1.85E-91	ttc39a	tetratricopept	ENSG00000085831
173	ENSXETG00000021769	-1.417542627	1.05E-19	npas2	neuronal PAS	ENSG00000170485
174	ENSXETG00000025903	-1.416207427	1.07E-71	ddx52	DEAD-box hel	ENSG00000278053
175	ENSXETG00000001048	-1.415811249	4.68E-110	trpm6	transient rece	ENSG00000119121
176	ENSXETG00000001839	-1.414320474	9.55E-14	fhdc1	FH2 domain c	ENSG00000137460
177	ENSXETG00000019664	-1.41362998	1.46E-61	cyp2r1	cytochrome P	ENSG00000186104
178	ENSXETG00000010908	-1.412632625	0.000755638	ENSXETG00000010908		ENSG00000240224,ENSG00
179	ENSXETG00000017349	-1.408737603	0	pno1	partner of NO	ENSG00000115946
180	ENSXETG00000001183	-1.406064805	0	ppt1	palmitoyl-pro	ENSG00000131238
181	ENSXETG00000020044	-1.403103036	6.33E-80	cacybp	calcyclin bind	ENSG00000116161
182	ENSXETG00000023897	-1.400259439	6.03E-142	sord	sorbitol dehyd	ENSG00000140263
183	ENSXETG00000003533	-1.400086999	3.66E-32	mutyh	mutY DNA gly	ENSG00000132781
184	ENSXETG00000008277	-1.398953511	0	aifm3	apoptosis ind	ENSG00000183773
185	ENSXETG00000005165	-1.396787765	5.85E-112	stra6	stimulated by	ENSG00000137868
186	ENSXETG00000012727	-1.396252335	8.68E-19	crebrf	CREB3 regula	ENSG00000164463
187	ENSXETG00000010172	-1.393348175	5.34E-07	fdxacb1	ferredoxin-fol	ENSG00000255561
188	ENSXETG00000019167	-1.39305693	4.83E-89	uspl1	ubiquitin spec	ENSG00000132952
189	ENSXETG00000013688	-1.390697115	2.47E-93	mbd2	methyl-CpG b	ENSG00000134046
190	ENSXETG00000003384	-1.390622981	1.19E-05	nags	N-acetylgluta	ENSG00000161653
191	ENSXETG00000008127	-1.375389233	1.88E-05	npffr2	neuropeptide	ENSG00000056291
192	ENSXETG00000022587	-1.375318954	1.76E-260	coq8a	coenzyme Q8	ENSG00000163050
193	ENSXETG00000008804	-1.373661957	1.02E-207	atf5.2	activating tra	ENSG00000169136
194	ENSXETG00000031281	-1.37331029	0	aqp8		ENSG00000103375
195	ENSXETG00000013606	-1.372037811	6.67E-164	arrdc2	arrestin doma	ENSG00000105643
196	ENSXETG00000023886	-1.371351692	5.13E-54	neil1	nei-like DNA g	ENSG00000140398
197	ENSXETG00000030761	-1.369269016	2.80E-249	KIAA1191		ENSG00000122203
198	ENSXETG00000023076	-1.368764821	1.16E-152	aspg	asparaginase	ENSG00000166183
199	ENSXETG00000022439	-1.367005886	2.59E-119	pir	pirin	ENSG00000087842
200	ENSXETG00000023819	-1.366822132	6.75E-73	ovca2	OVCA2, serine	ENSG00000262664
201	ENSXETG00000003725	-1.361982213	7.95E-34	myb	MYB proto-or	ENSG00000118513
202	ENSXETG00000017807	-1.360961394	5.19E-23	spry2	sprouty RTK s	ENSG00000136158
203	ENSXETG00000020337	-1.359646789	5.09E-26	adal	adenosine de	ENSG00000168803
204	ENSXETG00000027163	-1.35866129	2.09E-21	znf383	zinc finger pro	ENSG00000184517
205	ENSXETG00000026460	-1.355790816	5.40E-89	cdh26	cadherin 26	ENSG00000124215
206	ENSXETG00000005614	-1.355394095	1.14E-54	aasdh	aminoadipate	ENSG00000157426
207	ENSXETG00000026219	-1.350264296	0	fau	Finkel-Biskis-R	ENSG00000149806
208	ENSXETG00000004674	-1.349382757	0	eef1d	eukaryotic tra	ENSG00000104529
209	ENSXETG00000028182	-1.347297184	0.00071497	U3		ENSG00000221400,ENSG00
210	ENSXETG00000024497	-1.347127881	5.61E-247	ENSXETG00000024497	cytochrome P	ENSG00000142973
211	ENSXETG00000025146	-1.345182762	1.94E-18	tsen2	tRNA splicing	ENSG00000154743
212	ENSXETG00000007164	-1.343082239	1.18E-303	gne	glucosamine (	ENSG00000159921
213	ENSXETG00000009654	-1.340876093	1.05E-47	mettl21b	EEF1A lysine m	ENSG00000123427
214	ENSXETG00000018760	-1.339727516	6.39E-11	atp5sl	distal membra	ENSG00000105341
215	ENSXETG00000003706	-1.338667257	0	rps15	ribosomal pro	ENSG00000115268
216	ENSXETG00000029906	-1.338361812	0.001176472	SNORD97		ENSG00000238622
217	ENSXETG00000014518	-1.33354904	0.000639815	ptprq	protein tyrosi	ENSG00000139304
218	ENSXETG00000016009	-1.330991167	4.93E-103	gclc	glutamate-cys	ENSG00000001084
219	ENSXETG00000011646	-1.329181167	6.79E-103	kri1	KRI1 homolog	ENSG00000129347
220	ENSXETG00000030089	-1.328927431	8.67E-05	RASL10B		ENSG00000270885
221	ENSXETG00000026658	-1.328576449	1.55E-10	tnfsf15	TNF superfam	ENSG00000181634
222	ENSXETG00000025147	-1.32680066	8.29E-298	cnbp	CCHC-type zin	ENSG00000187969,ENSG00
223	ENSXETG00000017895	-1.326458456	4.40E-15	exd1	exonuclease 3	ENSG00000178997
224	ENSXETG00000009137	-1.326168787	1.36E-35	ppl	periplakin	ENSG00000118898
225	ENSXETG00000024723	-1.320753652	0	eif3k	eukaryotic tra	ENSG00000178982
226	ENSXETG00000010820	-1.320653558	0.000262714	cd200r1	CD200 recept	ENSG00000114013,ENSG00
227	ENSXETG00000027236	-1.315124619	0	ENSXETG00000027236		ENSG00000099812
228	ENSXETG00000015769	-1.315083512	5.56E-05	nrcam	neuronal cell	ENSG00000091129
229	ENSXETG00000010094	-1.312491126	2.29E-44	tyw1	tRNA-yW synt	ENSG00000277149,ENSG00
230	ENSXETG00000003894	-1.307886985	2.13E-91	c16orf87	chromosome	ENSG00000155330
231	ENSXETG00000011407	-1.30658139	3.59E-54	sfr1	SWI5-depend	ENSG00000156384
232	ENSXETG00000005868	-1.30545575	0	cyp4v2		ENSG00000145476
233	ENSXETG00000020482	-1.30527985	0	ENSXETG00000020482		ENSG00000109475
234	ENSXETG00000025051	-1.303294353	0	eif1	eukaryotic tra	ENSG00000173812
235	ENSXETG00000019718	-1.298937174	0	cited4	Cbp/p300-inte	ENSG00000179862
236	ENSXETG00000018097	-1.29826373	0	gtpbp4	GTP binding p	ENSG00000107937
237	ENSXETG00000029187	-1.296877637	1.68E-14	xtr-mir-192		ENSG00000207648
238	ENSXETG00000000067	-1.295126879	4.83E-212	ripk4	receptor inter	ENSG00000183421
239	ENSXETG00000021849	-1.293526511	5.89E-20	dcaf4	DDB1 and CU	ENSG00000176566,ENSG00
240	ENSXETG00000007538	-1.290390977	5.65E-127	fam134b	reticulophagy	ENSG00000154153
241	ENSXETG00000020593	-1.288039624	0	eif3b	eukaryotic tra	ENSG00000106263
242	ENSXETG00000009189	-1.286429409	0	znf593	zinc finger pro	ENSG00000142684
243	ENSXETG00000021664	-1.284957523	0.002523617	prodh	proline dehyd	ENSG00000277196,ENSG00
244	ENSXETG00000007700	-1.284262605	6.20E-105	gnl3l	guanine nucle	ENSG00000130119
245	ENSXETG00000021274	-1.281324285	4.71E-28	gpr84	G protein-cou	ENSG00000139572
246	ENSXETG00000007058	-1.277681998	6.51E-05	ENSXETG00000007058		ENSG00000106608
247	ENSXETG00000001122	-1.274797309	2.62E-23	rad51c	RAD51 paralo	ENSG00000108384
248	ENSXETG00000026980	-1.274625286	1.30E-221	ENSXETG00000026980		ENSG00000006747
249	ENSXETG00000012233	-1.273552729	0	slc26a3.1	solute carrier	ENSG00000091138
250	ENSXETG00000019117	-1.27164293	5.58E-15	ankrd6	ankyrin repea	ENSG00000135299
251	ENSXETG00000009747	-1.271497344	2.40E-81	dapk2	death-associa	ENSG00000035664
252	ENSXETG00000023000	-1.271482019	5.26E-67	tmed5	transmembra	ENSG00000117500
253	ENSXETG00000016735	-1.267852404	3.27E-21	REXO5	RNA exonucle	ENSG00000005189
254	ENSXETG00000017750	-1.266605518	1.29E-36	polg	polymerase (D	ENSG00000140521
255	ENSXETG00000006076	-1.265411656	9.28E-20	efemp1	EGF containin	ENSG00000115380
256	ENSXETG00000008224	-1.264840847	1.25E-69	gclm	glutamate-cys	ENSG00000023909
257	ENSXETG00000021095	-1.263990526	0	rpl34	ribosomal pro	ENSG00000109475
258	ENSXETG00000004407	-1.259592066	0	naca.2	nascent polyp	ENSG00000196531,ENSG00
259	ENSXETG00000013667	-1.259153332	1.94E-87	mknk2	MAP kinase in	ENSG00000099875
260	ENSXETG00000013590	-1.258210901	0	plk3	polo-like kina	ENSG00000173846
261	ENSXETG00000000078	-1.257667647	1.34E-91	cish	cytokine indu	ENSG00000114737
262	ENSXETG00000023236	-1.257607053	0	anxa13	annexin A13	ENSG00000104537
263	ENSXETG00000015461	-1.256514568	2.95E-199	nedd9	neural precur	ENSG00000111859
264	ENSXETG00000011050	-1.253964886	0	txnip	thioredoxin in	ENSG00000265972
265	ENSXETG00000029145	-1.253506088	0.003298362	xtr-mir-146a		ENSG00000277727

2-fold change (UP)

No	Gene ID	log2FoldChange	padj	Gene Symbol	Gene Name	Ensemble_Human ID
1	ENSXETG00000021140	10.53480271	0	cyp1a1	cytochrome P	ENSG00000140505,ENSG00000140465
2	ENSXETG00000022372	7.336897066	4.94E-221	mmp11	matrix metall	ENSG00000099953
3	ENSXETG00000004372	6.996986424	0	umod.1	uromodulin (	ENSG00000169344,ENSG00000169347
4	ENSXETG00000006829	6.885036893	1.33E-120	cela2a	chymotrypsin	ENSG00000215704,ENSG00000142615
5	ENSXETG00000012944	6.852435843	3.98E-120	foxo6	forkhead box	ENSG00000204060
6	ENSXETG00000016566	6.695943672	2.91E-87	ENSXETG00000016566		ENSG00000204983,ENSG00000010438
7	ENSXETG00000005916	6.27160824	5.95E-246	msrb2	methionine s	ENSG00000148450
8	ENSXETG00000016293	6.269585884	7.85E-74	cpa1	carboxypepti	ENSG00000091704
9	ENSXETG00000031155	6.176058507	2.64E-77	ENSXETG00000031155		ENSG00000204983,ENSG00000010438
10	ENSXETG00000007733	5.655668639	2.46E-61	prss2	protease, seri	ENSG00000204983,ENSG00000010438
11	ENSXETG00000025157	5.645970226	2.75E-54	ENSXETG00000025157	chymotrypsin	ENSG00000139610
12	ENSXETG00000004380	5.331450068	2.72E-61	ENSXETG00000004380		ENSG00000169344,ENSG00000169347
13	ENSXETG00000021636	5.189229001	1.04E-61	amdhd1	amidohydrola	ENSG00000139344
14	ENSXETG00000005773	5.16671662	1.18E-171	noxo1.1	NADPH oxida	ENSG00000196408
15	ENSXETG00000018779	5.049872944	1.54E-51	adamts17	ADAM metall	ENSG00000140470
16	ENSXETG00000015596	4.926374147	2.35E-47	ctrb2	chymotrypsin	ENSG00000168928,ENSG00000168925
17	ENSXETG00000030759	4.901304188	5.19E-200	rtp3		ENSG00000163825,ENSG00000175077,ENSG00000136514,ENSG00000198471
18	ENSXETG00000003871	4.776568664	1.17E-150	thrb	thyroid horm	ENSG00000151090
19	ENSXETG00000004005	4.769004091	0	gal3st4		ENSG00000197093
20	ENSXETG00000018739	4.608109161	0	cdo1	cysteine diox	ENSG00000129596
21	ENSXETG00000030368	4.600415552	6.27E-34	PI15		ENSG00000137558
22	ENSXETG00000018262	4.575378646	3.80E-52	pglyrp1	peptidoglycar	ENSG00000159527,ENSG00000163218,ENSG00000008438
23	ENSXETG00000001688	4.556793674	4.51E-159	mamdc2	MAM domain	ENSG00000165072
24	ENSXETG00000006460	4.391161513	5.19E-34	camk2a	calcium/calm	ENSG00000070808
25	ENSXETG00000013482	4.314062516	4.82E-57	unc45b	unc-45 myosi	ENSG00000141161
26	ENSXETG00000025504	4.309862418	0	tmem150b	transmembra	ENSG00000180061
27	ENSXETG00000006887	4.302861669	3.75E-52	itih3	inter-alpha-tr	ENSG00000055957
28	ENSXETG00000016111	4.267662909	4.32E-37	slc27a2	solute carrier	ENSG00000140284
29	ENSXETG00000006930	4.261931085	3.21E-104	kctd1	potassium ch	ENSG00000134504
30	ENSXETG00000014195	4.179381106	3.53E-28	ENSXETG00000014195		ENSG00000139610
31	ENSXETG00000017149	4.132650112	6.23E-33	inhbc.1	inhibin beta C	ENSG00000139269,ENSG00000175189
32	ENSXETG00000006623	4.084810066	8.95E-50	lrrc15	leucine rich re	ENSG00000172061
33	ENSXETG00000008149	3.963534042	2.06E-48	nfic	nuclear facto	ENSG00000141905
34	ENSXETG00000000954	3.941871084	0	slc34a2	solute carrier	ENSG00000157765
35	ENSXETG00000014950	3.932217926	6.92E-78	ccdc136	coiled-coil do	ENSG00000128596
36	ENSXETG00000000835	3.9082866	0	nfib	nuclear facto	ENSG00000147862
37	ENSXETG00000007345	3.881507499	1.48E-28	cldn8.3	claudin 8, ger	ENSG00000156284
38	ENSXETG00000013041	3.771344595	2.08E-22	LYZ		ENSG00000090382
39	ENSXETG00000010800	3.748572189	0	ENSXETG00000010800	gastrula zinc f	ENSG00000128311
40	ENSXETG00000018124	3.716393858	0	cldn2	claudin 2	ENSG00000165376
41	ENSXETG00000010847	3.707444268	1.35E-55	amy2a	amylase, alph	ENSG00000240038,ENSG00000187733,ENSG00000174876,ENSG00000243480,ENSG00000237763
42	ENSXETG00000014029	3.702965718	2.18E-28	ins	insulin	ENSG00000129965,ENSG00000254647
43	ENSXETG00000022360	3.63375252	3.48E-33	slc2a11	solute carrier	ENSG00000133460,ENSG00000251357
44	ENSXETG00000023154	3.565627992	1.64E-152	slc9a3	solute carrier	ENSG00000066230
45	ENSXETG00000019879	3.545361186	1.07E-96	igfbp5	insulin like gr	ENSG00000115461
46	ENSXETG00000019618	3.501799068	1.73E-22	nptx1	neuronal pen	ENSG00000171246
47	ENSXETG00000005356	3.499432114	8.59E-269	stab2	stabilin 2	ENSG00000136011
48	ENSXETG00000025507	3.44658955	0	ethe1	ethylmalonic	ENSG00000105755
49	ENSXETG00000022215	3.416738654	4.24E-61	mmp13l	matrix metall	ENSG00000137745
50	ENSXETG00000007353	3.402762519	3.42E-19	tgm5	transglutamin	ENSG00000159495,ENSG00000104055
51	ENSXETG00000016718	3.396200513	3.32E-24	nfix	nuclear facto	ENSG00000008441
52	ENSXETG00000021814	3.388034611	3.93E-84	slc16a12	solute carrier	ENSG00000152779
53	ENSXETG00000012422	3.377640307	1.48E-47	tmprss15	transmembra	ENSG00000154646
54	ENSXETG00000014014	3.376767958	4.90E-19	slc1a4	solute carrier	ENSG00000115902
55	ENSXETG00000016077	3.360525346	3.27E-17	cpb1	carboxypepti	ENSG00000153002
56	ENSXETG00000010344	3.335158807	1.91E-173	plk1	polo like kina	ENSG00000166851
57	ENSXETG00000003175	3.309620558	4.17E-26	c1ql1	complement	ENSG00000131094
58	ENSXETG00000003088	3.262955356	7.86E-17	clca3p	chloride chan	ENSG00000016602,ENSG00000016490,ENSG00000137975
59	ENSXETG00000015580	3.250465703	2.89E-63	htra1	HtrA serine p	ENSG00000166033
60	ENSXETG00000021762	3.241257673	6.73E-216	angptl2	angiopoietin l	ENSG00000136859
61	ENSXETG00000017292	3.222153707	8.63E-253	teddm1	transmembra	ENSG00000203730
62	ENSXETG00000019779	3.197837935	2.66E-273	bcl6	B-cell CLL/lym	ENSG00000113916
63	ENSXETG00000006294	3.190239658	2.98E-61	ENSXETG00000006294		ENSG00000005001,ENSG00000172382,ENSG00000052344
64	ENSXETG00000011159	3.146871304	3.40E-15	CP		ENSG00000047457
65	ENSXETG00000008638	3.11120789	1.03E-207	MGC107780		ENSG00000160339,ENSG00000085265
66	ENSXETG00000007734	3.097681825	1.30E-14	ENSXETG00000007734		ENSG00000204983,ENSG00000010438
67	ENSXETG00000003934	3.096434853	2.27E-157	slc37a2	solute carrier	ENSG00000134955
68	ENSXETG00000004104	3.071182581	4.73E-33	cthrc1	collagen tripl	ENSG00000164932
69	ENSXETG00000005714	3.065765448	5.26E-78	fabp6	fatty acid bin	ENSG00000170231
70	ENSXETG00000009497	3.059326272	3.93E-36	adamts10	ADAM metall	ENSG00000142303
71	ENSXETG00000001114	3.053567703	3.42E-31	rai2	retinoic acid i	ENSG00000131831
72	ENSXETG00000018790	3.021693917	5.86E-61	sh3pxd2b	SH3 and PX d	ENSG00000174705
73	ENSXETG00000025478	3.020624421	3.36E-19	lum	lumican	ENSG00000139329
74	ENSXETG00000016042	3.008504359	5.71E-167	tm4sf1	transmembra	ENSG00000169908
75	ENSXETG00000001210	3.003077848	9.11E-126	aacs	acetoacetyl-C	ENSG00000081760
76	ENSXETG00000000343	2.98218189	2.56E-115	anln	anillin actin b	ENSG00000011426
77	ENSXETG00000021362	2.97919935	8.40E-107	top2a	DNA topoisor	ENSG00000131747
78	ENSXETG00000012186	2.975065451	1.60E-30	ccnj	cyclin J	ENSG00000107443
79	ENSXETG00000005481	2.972394489	1.57E-15	trpc6	transient rece	ENSG00000137672
80	ENSXETG00000023301	2.95402496	5.13E-247	gtse1	G2 and S-pha	ENSG00000075218
81	ENSXETG00000001040	2.953500761	7.90E-14	ENSXETG00000001040		ENSG00000104951
82	ENSXETG00000012144	2.911275077	4.64E-34	fam83d	family with se	ENSG00000101447
83	ENSXETG00000017676	2.892064296	4.18E-60	adamts4	ADAM metall	ENSG00000158859
84	ENSXETG00000018032	2.89204982	7.49E-32	tubb2b	tubulin beta 2	ENSG00000137285,ENSG00000137267
85	ENSXETG00000026059	2.883286831	6.60E-48	ccnb2	cyclin B2	ENSG00000157456
86	ENSXETG00000007329	2.874582562	0	hyal1	hyaluronoglu	ENSG00000114378
87	ENSXETG00000006551	2.873707549	1.89E-66	melk	maternal emb	ENSG00000165304
88	ENSXETG00000006429	2.872825042	3.38E-24	hephl1	hephaestin lik	ENSG00000181333
89	ENSXETG00000021043	2.842494527	0	gltpd2	glycolipid tra	ENSG00000182327
90	ENSXETG00000023131	2.830529388	2.82E-28	ENSXETG00000023131		ENSG00000175575
91	ENSXETG00000005947	2.829575673	2.56E-68	slc26a9	solute carrier	ENSG00000174502
92	ENSXETG00000020708	2.802646758	2.24E-134	ckap2	cytoskeleton	ENSG00000136108
93	ENSXETG00000023016	2.799680193	0	b4galt4	UDP-Gal:beta	ENSG00000121578
94	ENSXETG00000015449	2.792904032	4.02E-169	prc1	protein regula	ENSG00000198901
95	ENSXETG00000022597	2.782723016	2.89E-144	ccnb3	cyclin B3	ENSG00000147082
96	ENSXETG00000001035	2.778947796	9.39E-53	fam132a	C1q and TNF	ENSG00000184163
97	ENSXETG00000001746	2.775294139	7.13E-164	slc39a2	solute carrier	ENSG00000165794
98	ENSXETG00000018960	2.772799717	1.24E-47	ENSXETG00000018960		ENSG00000215182
99	ENSXETG00000003123	2.772363166	2.23E-212	cdk1	cyclin-depend	ENSG00000170312
100	ENSXETG00000006265	2.753538727	2.67E-46	cel	carboxyl este	ENSG00000170835
101	ENSXETG00000016478	2.752237326	3.10E-40	klf13	Kruppel-like f	ENSG00000169926
102	ENSXETG00000030117	2.75057619	5.63E-112	ENSXETG00000030117		ENSG00000111665
103	ENSXETG00000025008	2.744510837	1.04E-29	nek2	NIMA-related	ENSG00000117650
104	ENSXETG00000004436	2.741453614	2.19E-43	e2f8	E2F transcript	ENSG00000129173
105	ENSXETG00000002411	2.74011185	2.36E-106	dpt	dermatopont	ENSG00000143196
106	ENSXETG00000011757	2.73077318	2.84E-21	COL5A3		ENSG00000080573
107	ENSXETG00000001030	2.702555476	3.29E-15	ENSXETG00000001030		ENSG00000162572
108	ENSXETG00000014270	2.701989069	1.73E-11	ENSXETG00000014270		ENSG00000215704,ENSG00000142615
109	ENSXETG00000018781	2.696413295	1.69E-28	avpr1a	arginine vaso	ENSG00000166148
110	ENSXETG00000009114	2.683927663	3.78E-25	ucma	upper zone of	ENSG00000165623
111	ENSXETG00000009544	2.68367594	1.40E-16	pif1	PIF1 5'-to-3' D	ENSG00000140451
112	ENSXETG00000003737	2.671231261	2.17E-21	cpn1	carboxypepti	ENSG00000120054
113	ENSXETG00000026148	2.661718611	5.23E-11	ENSXETG00000026148		ENSG00000204983,ENSG00000010438
114	ENSXETG00000004371	2.659195227	0	tspan1	tetraspanin 1	ENSG00000117472
115	ENSXETG00000003623	2.649271175	0	psat1	phosphoserin	ENSG00000135069
116	ENSXETG00000011881	2.641916499	1.39E-14	arsi	arylsulfatase	ENSG00000183876
117	ENSXETG00000008946	2.632471681	3.41E-31	ska1	spindle and k	ENSG00000154839
118	ENSXETG00000022538	2.621195012	8.03E-11	adam12	ADAM metall	ENSG00000148848
119	ENSXETG00000017641	2.606573497	1.04E-23	rcn3	reticulocalbin	ENSG00000142552
120	ENSXETG00000012353	2.595578902	3.79E-45	bora	bora, aurora k	ENSG00000136122
121	ENSXETG00000018643	2.594524259	1.77E-11	ENSXETG00000018643		ENSG00000173868
122	ENSXETG00000012742	2.592469168	8.32E-11	ENSXETG00000012742		ENSG00000134028
123	ENSXETG00000011787	2.591013524	2.12E-45	pdx1	pancreatic an	ENSG00000139515
124	ENSXETG00000005729	2.586557968	1.52E-10	ENSXETG00000005729		ENSG00000010072
125	ENSXETG00000025664	2.573434951	6.22E-35	hba1	hemoglobin s	ENSG00000206172,ENSG00000086506,ENSG00000188536
126	ENSXETG00000027414	2.57332353	3.11E-72	epn3	epsin 3	ENSG00000049283
127	ENSXETG00000007330	2.57026581	0	hyal2	hyaluronoglu	ENSG00000068001
128	ENSXETG00000026988	2.556428707	6.24E-43	prr11	proline rich 1	ENSG00000068489
129	ENSXETG00000025667	2.54958752	1.44E-28	hbg1	hemoglobin s	ENSG00000213934,ENSG00000213931,ENSG00000196565
130	ENSXETG00000007732	2.539735362	3.53E-10	prss1	protease, seri	ENSG00000204983,ENSG00000010438
131	ENSXETG00000020384	2.539115482	9.31E-59	iqgap3	IQ motif cont	ENSG00000183856
132	ENSXETG00000025623	2.538516618	1.21E-113	cdc20	cell division c	ENSG00000117399
133	ENSXETG00000003729	2.536393763	1.87E-13	lgi1	leucine-rich, g	ENSG00000108231
134	ENSXETG00000014130	2.512126863	1.66E-17	ENSXETG00000014130		ENSG00000175575
135	ENSXETG00000012213	2.508599413	1.32E-104	kif11	kinesin family	ENSG00000138160
136	ENSXETG00000023596	2.504665749	2.05E-61	ect2	epithelial cell	ENSG00000114346
137	ENSXETG00000016354	2.498487676	2.75E-161	ccnb1.2	cyclin B1	ENSG00000134057
138	ENSXETG00000013283	2.498485482	2.29E-14	wfdc1	WAP four-dis	ENSG00000103175
139	ENSXETG00000008198	2.498375035	2.59E-22	antxr1	anthrax toxin	ENSG00000169604
140	ENSXETG00000002167	2.49659055	5.91E-47	cdca8	cell division c	ENSG00000134690
141	ENSXETG00000015421	2.493940108	1.95E-70	cks1b	CDC28 protei	ENSG00000173207
142	ENSXETG00000021319	2.476767166	2.84E-70	cenpe	centromere p	ENSG00000138778
143	ENSXETG00000006721	2.472528123	7.26E-94	kif20a	kinesin family	ENSG00000112984
144	ENSXETG00000003527	2.472018748	2.73E-49	rrm2.1	ribonucleotid	ENSG00000171848
145	ENSXETG00000011728	2.469023148	1.07E-75	naalad2	N-acetylated	ENSG00000077616
146	ENSXETG00000017069	2.45371598	3.05E-71	shcbp1	SHC SH2-dom	ENSG00000171241
147	ENSXETG00000015731	2.453193446	5.06E-66	dlgap5	discs large ho	ENSG00000126787
148	ENSXETG00000008818	2.446624234	1.35E-35	ENSXETG00000008818		ENSG00000156413,ENSG00000171124,ENSG00000130383
149	ENSXETG00000007352	2.446282758	2.63E-18	hunk	hormonally u	ENSG00000142149
150	ENSXETG00000006578	2.419049062	3.17E-31	efnb1	ephrin-B1	ENSG00000090776
151	ENSXETG00000027499	2.41628904	4.69E-120	nusap1	nucleolar and	ENSG00000137804
152	ENSXETG00000027651	2.41477607	2.88E-29	ccdc28b	coiled-coil do	ENSG00000160050
153	ENSXETG00000011315	2.413453068	7.72E-52	adgrf1	adhesion G pr	ENSG00000069122
154	ENSXETG00000002534	2.4064358	1.21E-15	parpbp	PARP1 bindin	ENSG00000185480
155	ENSXETG00000029964	2.405237217	2.71E-17	ENSXETG00000029964		ENSG00000175575
156	ENSXETG00000022448	2.404978162	7.94E-97	bub1	BUB1 mitotic	ENSG00000169679
157	ENSXETG00000009955	2.403357776	5.88E-93	dennd1b	DENN/MADD	ENSG00000066279
158	ENSXETG00000012994	2.394884129	1.93E-09	ENSXETG00000012994		ENSG00000180644
159	ENSXETG00000001501	2.3904358	2.61E-09	nipal4	NIPA-like dom	ENSG00000172548
160	ENSXETG00000031143	2.38447918	1.98E-09	ENSXETG00000031143		ENSG00000204361,ENSG00000137634,ENSG00000095110
161	ENSXETG00000016585	2.379449343	2.29E-96	slc7a5	solute carrier	ENSG00000103257
162	ENSXETG00000011684	2.376349127	2.02E-18	cux2	cut like home	ENSG00000111249
163	ENSXETG00000023572	2.37340389	0	gk5	glycerol kinas	ENSG00000175066
164	ENSXETG00000012789	2.363954056	1.80E-46	abhd12	abhydrolase d	ENSG00000100997
165	ENSXETG00000012032	2.360217814	1.13E-27	aurka	aurora kinase	ENSG00000087586
166	ENSXETG00000012376	2.357081436	1.29E-55	depdc1	DEP domain c	ENSG00000024526
167	ENSXETG00000009355	2.354804567	2.17E-46	smarca4	SWI/SNF rela	ENSG00000127616
168	ENSXETG00000019659	2.348306229	1.55E-10	ldlrad4	low density li	ENSG00000168675
169	ENSXETG00000003603	2.343883115	1.53E-169	col12a1	collagen, type	ENSG00000111799
170	ENSXETG00000021839	2.343359156	4.14E-11	adamts15	ADAM metall	ENSG00000166106
171	ENSXETG00000013383	2.341425642	4.61E-90	racgap1	Rac GTPase a	ENSG00000161800
172	ENSXETG00000013638	2.333864377	1.65E-26	adamts5	ADAM metall	ENSG00000154736
173	ENSXETG00000006735	2.329989996	2.95E-102	incenp	inner centron	ENSG00000149503
174	ENSXETG00000017712	2.329756077	6.86E-281	emb	embigin	ENSG00000170571
175	ENSXETG00000030197	2.32964962	1.99E-12	ENSXETG00000030197		ENSG00000175575
176	ENSXETG00000022574	2.329052538	8.72E-26	ercc6l	excision repai	ENSG00000186871
177	ENSXETG00000000723	2.324835003	6.31E-32	nacc2	NACC family r	ENSG00000148411
178	ENSXETG00000021122	2.318224126	3.52E-264	nt5c3a	5'-nucleotida	ENSG00000122643
179	ENSXETG00000021097	2.304941884	1.01E-08	COL25A1		ENSG00000188517
180	ENSXETG00000013710	2.298319791	1.21E-18	mmp16	matrix metall	ENSG00000156103
181	ENSXETG00000010855	2.29521596	7.08E-38	cks2	CDC28 protei	ENSG00000123975
182	ENSXETG00000023297	2.291532301	1.15E-09	fabp7	fatty acid bin	ENSG00000164434
183	ENSXETG00000013598	2.290893111	8.73E-37	kif2c	kinesin family	ENSG00000142945
184	ENSXETG00000001016	2.282102248	1.98E-64	ccna2	cyclin A2	ENSG00000145386
185	ENSXETG00000022636	2.27761717	3.61E-32	prss35	protease, seri	ENSG00000146250
186	ENSXETG00000027925	2.272814559	9.80E-37	donson	downstream	ENSG00000159147
187	ENSXETG00000018211	2.271397286	3.26E-102	atad2b	ATPase family	ENSG00000119778
188	ENSXETG00000024756	2.270902562	3.45E-20	dnm1	dynamin 1	ENSG00000106976
189	ENSXETG00000021812	2.263534041	3.53E-133	pdk3	pyruvate deh	ENSG00000067992
190	ENSXETG00000017213	2.262446787	0	slc16a1	solute carrier	ENSG00000155380
191	ENSXETG00000015681	2.258273577	8.16E-125	upp1	uridine phosp	ENSG00000183696
192	ENSXETG00000015574	2.252433678	1.24E-29	pdzd2	PDZ domain c	ENSG00000133401
193	ENSXETG00000012557	2.241849739	1.38E-34	col6a3	collagen, type	ENSG00000206384,ENSG00000172752
194	ENSXETG00000003874	2.240825801	1.52E-108	tacc3	transforming	ENSG00000013810
195	ENSXETG00000017715	2.240654285	1.09E-21	gcnt3	glucosaminyl	ENSG00000140297
196	ENSXETG00000014881	2.238613086	5.33E-100	ube2c	ubiquitin con	ENSG00000175063
197	ENSXETG00000009097	2.237782677	1.51E-39	aurkb	aurora kinase	ENSG00000105146,ENSG00000178999
198	ENSXETG00000021847	2.234227143	4.92E-75	dcn	decorin	ENSG00000011465
199	ENSXETG00000011758	2.232974694	1.08E-60	adam33	ADAM metall	ENSG00000149451
200	ENSXETG00000023124	2.232354636	2.34E-42	cenpf	centromere p	ENSG00000117724
201	ENSXETG00000010208	2.228529352	5.61E-112	fosl2	FOS-like antig	ENSG00000075426
202	ENSXETG00000021851	2.228151032	1.15E-14	mmp19	matrix metall	ENSG00000123342
203	ENSXETG00000005339	2.220799551	3.13E-52	ankrd9	ankyrin repea	ENSG00000156381
204	ENSXETG00000010420	2.219820535	0	pmp2	peripheral my	ENSG00000147588,ENSG00000170323,ENSG00000205186,ENSG00000197416,ENSG00000164687
205	ENSXETG00000000527	2.215881401	6.22E-11	dmgdh	dimethylglyci	ENSG00000132837
206	ENSXETG00000025267	2.212088292	7.23E-10	ybx2	Y-box binding	ENSG00000006047
207	ENSXETG00000020438	2.208391986	2.98E-38	pbk	PDZ binding k	ENSG00000168078
208	ENSXETG00000002028	2.207439804	0	ulk1	unc-51 like au	ENSG00000177169
209	ENSXETG00000004435	2.207072291	1.55E-12	csrp3	cysteine and g	ENSG00000129170
210	ENSXETG00000008652	2.205831306	3.30E-14	fam107a	family with se	ENSG00000168309
211	ENSXETG00000014366	2.203855322	3.45E-84	flvcr1	feline leukem	ENSG00000162769
212	ENSXETG00000024551	2.202976776	3.02E-17	scel	sciellin	ENSG00000136155
213	ENSXETG00000004164	2.202846722	2.19E-57	kif3a	kinesin family	ENSG00000131437
214	ENSXETG00000031136	2.194465295	3.94E-10	tmem35a		ENSG00000126950
215	ENSXETG00000014770	2.191794486	8.47E-201	tm4sf20	transmembra	ENSG00000168955
216	ENSXETG00000010783	2.190403405	0	col3a1	collagen, type	ENSG00000168542
217	ENSXETG00000017770	2.188596364	8.53E-08	rlbp1	retinaldehyde	ENSG00000140522
218	ENSXETG00000030529	2.186494673	3.08E-31	LYPD6B		ENSG00000150556
219	ENSXETG00000026473	2.185501692	1.82E-21	fam64a	PICALM intera	ENSG00000129195
220	ENSXETG00000007786	2.184806121	7.80E-135	gdpd1	glycerophosp	ENSG00000153982
221	ENSXETG00000000925	2.184728333	2.09E-96	slc44a1	solute carrier	ENSG00000070214
222	ENSXETG00000004035	2.182926725	1.51E-14	prss12	protease, seri	ENSG00000164099
223	ENSXETG00000022690	2.181173362	3.23E-56	cldn18	claudin 18	ENSG00000066405
224	ENSXETG00000003417	2.17807373	8.00E-10	arhgap19	Rho GTPase a	ENSG00000213390,ENSG00000269891
225	ENSXETG00000001594	2.172019743	0	kpna2	karyopherin a	ENSG00000182481
226	ENSXETG00000024988	2.169413301	5.26E-09	fam72a	family with se	ENSG00000196550,ENSG00000188610,ENSG00000215784,ENSG00000263513
227	ENSXETG00000023090	2.162201926	1.56E-49	ncaph2	non-SMC con	ENSG00000025770
228	ENSXETG00000012183	2.161393427	4.56E-70	cit	citron rho-int	ENSG00000122966
229	ENSXETG00000019690	2.156731689	6.71E-22	cidea	cell death-ind	ENSG00000176194
230	ENSXETG00000024067	2.14985403	1.15E-13	otoa	otoancorin	ENSG00000155719
231	ENSXETG00000007162	2.14537874	1.75E-32	ncapg2	non-SMC con	ENSG00000146918
232	ENSXETG00000017473	2.145203262	3.75E-45	ENSXETG00000017473		ENSG00000069122
233	ENSXETG00000006349	2.142580683	7.45E-25	onecut1	one cut home	ENSG00000169856
234	ENSXETG00000015433	2.136357518	9.85E-203	jarid2	jumonji and A	ENSG00000008083
235	ENSXETG00000004522	2.136100717	5.53E-33	lypd6	LY6/PLAUR do	ENSG00000187123
236	ENSXETG00000004673	2.134956553	4.78E-32	kif22	kinesin family	ENSG00000079616
237	ENSXETG00000012459	2.133268377	3.47E-64	ccnf	cyclin F	ENSG00000162063
238	ENSXETG00000019927	2.127173192	2.31E-16	crabp2	cellular retino	ENSG00000143320
239	ENSXETG00000003928	2.126648557	1.48E-32	ENSXETG00000003928		ENSG00000204361,ENSG00000137634,ENSG00000095110
240	ENSXETG00000015232	2.122515327	1.53E-07	slco5a1	solute carrier	ENSG00000137571
241	ENSXETG00000001397	2.122063652	2.69E-10	runx2	runt related t	ENSG00000124813
242	ENSXETG00000000988	2.121505053	9.18E-18	stard9	StAR related l	ENSG00000159433
243	ENSXETG00000015154	2.117675655	1.23E-10	htra4	HtrA serine p	ENSG00000169495
244	ENSXETG00000003328	2.113420252	5.84E-20	selenoi	selenoprotein	ENSG00000138018
245	ENSXETG00000007829	2.110857637	4.36E-114	kif23	kinesin family	ENSG00000137807
246	ENSXETG00000012988	2.10542557	1.62E-09	arnt2	aryl hydrocar	ENSG00000172379
247	ENSXETG00000009961	2.105253117	2.22E-142	kcnk5	potassium ch	ENSG00000164626
248	ENSXETG00000025781	2.101813465	3.62E-85	fam46c	family with se	ENSG00000183508
249	ENSXETG00000006901	2.097062571	3.71E-64	mov10	Mov10 RISC c	ENSG00000155363
250	ENSXETG00000003466	2.089138812	1.71E-22	cdk14	cyclin-depend	ENSG00000058091
251	ENSXETG00000002801	2.08154424	4.71E-135	mmp2	matrix metall	ENSG00000087245
252	ENSXETG00000013658	2.08153994	6.44E-78	dot1l	DOT1-like his	ENSG00000104885
253	ENSXETG00000019612	2.075982097	5.79E-165	entpd2	ectonucleosi	ENSG00000054179
254	ENSXETG00000020442	2.071793217	2.93E-27	esco2	establishmen	ENSG00000171320
255	ENSXETG00000014101	2.069552225	6.58E-41	tet2	tet methylcyt	ENSG00000168769
256	ENSXETG00000018184	2.065348877	8.65E-14	cyp26a1	cytochrome P	ENSG00000095596
257	ENSXETG00000008019	2.056737965	7.31E-20	pth2r	parathyroid h	ENSG00000144407
258	ENSXETG00000009634	2.056601445	3.69E-39	csrnp2	cysteine-serin	ENSG00000110925
259	ENSXETG00000025190	2.053687595	7.89E-38	lrrc8b	leucine rich re	ENSG00000197147
260	ENSXETG00000006838	2.048009998	7.29E-38	rab37	RAB37, memb	ENSG00000172794
261	ENSXETG00000021730	2.042599156	4.37E-28	pappa	pappalysin 1	ENSG00000182752
262	ENSXETG00000008336	2.040990153	4.06E-31	ncapd3	non-SMC con	ENSG00000151503
263	ENSXETG00000012050	2.039266454	6.28E-11	PRDM16		ENSG00000142611
264	ENSXETG00000001315	2.038557749	4.06E-15	foxm1	forkhead box	ENSG00000111206
265	ENSXETG00000010165	2.034857579	1.99E-25	sik2	salt inducible	ENSG00000170145

266	ENSXETG00000007911	-1.251491974	1.73E-06	ENSXETG00000007911		ENSG00000164616	266	ENSXETG00000009264	2.032255559	0	papss2	3'-phosphoad	ENSG00000198682
267	ENSXETG00000002459	-1.247526529	0.000679876	gpm6a	glycoprotein I	ENSG00000150625	267	ENSXETG00000005727	2.025309669	1.32E-11	c1qtnf1	C1q and TNF	ENSG00000184471,ENSG00000173918,ENSG00000133466
268	ENSXETG00000012454	-1.246448556	3.31E-08	slc17a9	solute carrier	ENSG00000101194	268	ENSXETG00000009643	2.025298778	2.55E-17	zbtb43	zinc finger an	ENSG00000169155
269	ENSXETG00000020676	-1.245210141	4.04E-42	sytl1	synaptotagmi	ENSG00000142765	269	ENSXETG00000022980	2.023528463	2.41E-67	ankrd50	ankyrin repea	ENSG00000151458
270	ENSXETG00000009030	-1.24365597	0	rps9	ribosomal pro	ENSG00000170889	270	ENSXETG00000012677	2.022934084	2.11E-78	XB-GENE-5886929	hypothetical	ENSG00000132703,ENSG00000132693
271	ENSXETG00000021822	-1.243386265	1.17E-09	ifit1	interferon ind	ENSG00000204010,ENSG00	271	ENSXETG00000021999	2.022513668	0	ak1	adenylate kin	ENSG00000106992
272	ENSXETG00000008988	-1.240822237	0.003584562	galnt15	polypeptide N	ENSG00000131386	272	ENSXETG00000024414	2.021141711	8.72E-07	dio3	deiodinase, ic	ENSG00000197406
273	ENSXETG00000016749	-1.237905462	4.89E-28	eppk1	epiplakin 1	ENSG00000261150	273	ENSXETG00000012668	2.010842318	5.34E-17	espl1	extra spindle	ENSG00000135476
274	ENSXETG00000004681	-1.23392674	3.76E-57	srfbp1	serum respon	ENSG00000151304	274	ENSXETG00000000457	2.008393612	2.03E-07	adamts6	ADAM metall	ENSG00000049192
275	ENSXETG00000014603	-1.23189291	0	slc7a8	solute carrier	ENSG00000092068	275	ENSXETG00000001547	2.005807898	1.96E-175	col4a6	collagen, type	ENSG00000197565
276	ENSXETG00000021539	-1.231784344	0.001547219	prkg2	protein kinase	ENSG00000138669	276	ENSXETG00000011768	2.002953422	1.16E-23	ttk	TTK protein k	ENSG00000112742
277	ENSXETG00000010343	-1.230457182	2.30E-119	wbscr22	BUD23, rRNA	ENSG00000071462	277	ENSXETG00000023306	2.00293633	3.05E-21	celsr1	cadherin EGF	ENSG00000075275
278	ENSXETG00000008333	-1.230254917	3.14E-16	thyn1	thymocyte nu	ENSG00000151500	278	ENSXETG00000007698	2.001296081	7.93E-09	dusp9	dual specificit	ENSG00000130829
279	ENSXETG00000005536	-1.229446555	2.41E-82	rrn3	RRN3 homolo	ENSG00000085721	279	ENSXETG00000030965	2.000797493	4.34E-287	ENSXETG00000030965		ENSG00000167676
280	ENSXETG00000001449	-1.229225342	4.79E-22	irak2	interleukin 1	ENSG00000134070	280	ENSXETG00000014191	1.998489154	1.00E-19	cap2	cyclase assoc	ENSG00000112186
281	ENSXETG00000012312	-1.228337871	6.84E-05	c3orf33	chromosome	ENSG00000174928	281	ENSXETG00000025742	1.996359945	9.13E-08	ENSXETG00000025742		ENSG00000134812
282	ENSXETG00000017617	-1.217532616	7.09E-19	rpp40	ribonuclease	ENSG00000124787	282	ENSXETG00000006797	1.99550935	2.26E-38	prickle1	prickle planar	ENSG00000139174
283	ENSXETG00000014186	-1.215250668	8.76E-29	prmt3	protein argini	ENSG00000185238	283	ENSXETG00000007906	1.993500485	1.62E-51	hmmr	hyaluronan-m	ENSG00000072571
284	ENSXETG00000019628	-1.212616456	6.21E-19	adgrv1	adhesion G pr	ENSG00000164199	284	ENSXETG00000013424	1.98931036	2.19E-12	mfap2	microfibril as	ENSG00000117122
285	ENSXETG00000015913	-1.209050176	0	sqstm1	sequestosome	ENSG00000161011	285	ENSXETG00000007559	1.988412811	2.27E-14	ehf	ETS homolog	ENSG00000135373
286	ENSXETG00000012599	-1.207908515	1.27E-08	evpl	envoplakin	ENSG00000167880	286	ENSXETG00000030070	1.986306556	5.39E-11	CUZD1		ENSG00000138161
287	ENSXETG00000016758	-1.20736923	3.86E-180	XB-GENE-1002559	Putative orth	ENSG00000165105	287	ENSXETG00000014772	1.986550163	0	ENSXETG00000014772		ENSG00000135917
288	ENSXETG00000008706	-1.206587824	1.68E-40	flrt3	fibronectin le	ENSG00000125848	288	ENSXETG00000018194	1.981949789	6.13E-16	eva1a	eva-1 homolo	ENSG00000115363
289	ENSXETG00000025544	-1.205096205	0	cpo	carboxypepti	ENSG00000144410	289	ENSXETG00000030125	1.980022702	2.72E-42	TRIM59		ENSG00000213186
290	ENSXETG00000003912	-1.203582969	0	rpl27a	ribosomal pro	ENSG00000166441	290	ENSXETG00000022745	1.978207152	1.16E-81	mcfd2	multiple coag	ENSG00000180398
291	ENSXETG00000029157	-1.201702776	3.04E-05	xtr-mir-210		ENSG00000199038	291	ENSXETG00000004752	1.977054037	6.20E-11	XB-GENE-983827	Putative orth	ENSG00000162733
292	ENSXETG00000029116	-1.200563999	0.003081739	xtr-mir-24b		ENSG00000276797	292	ENSXETG00000006000	1.975330422	3.41E-39	pkdcc.2	protein kinase	ENSG00000162878
293	ENSXETG00000011183	-1.200552143	4.50E-247	cth	cystathionine	ENSG00000116761	293	ENSXETG00000000694	1.975262513	2.14E-11	zdhhc2	zinc finger DH	ENSG00000104219
294	ENSXETG00000029956	-1.200156182	2.40E-26	ENSXETG00000029956		ENSG00000176485,ENSG00	294	ENSXETG00000030605	1.974783046	1.50E-06	ENSXETG00000030605		ENSG00000167210
295	ENSXETG00000009235	-1.200144259	1.13E-14	ENSXETG00000009235		ENSG00000074527	295	ENSXETG00000020971	1.971351241	9.76E-11	robo1	roundabout g	ENSG00000169855
296	ENSXETG00000011678	-1.198062354	1.94E-19	scfd2	sec1 family do	ENSG00000184178	296	ENSXETG00000002710	1.967419447	1.37E-25	rcor2	REST corepres	ENSG00000167771
297	ENSXETG00000023355	-1.198014154	7.14E-182	hdac6	histone deace	ENSG00000094631	297	ENSXETG00000006338	1.965810253	4.67E-11	thbs3	thrombospon	ENSG00000169231
298	ENSXETG00000012372	-1.197573148	4.15E-28	lrrc40	leucine rich re	ENSG00000066557	298	ENSXETG00000008497	1.95540935	5.62E-36	kif15	kinesin family	ENSG00000163808
299	ENSXETG00000007220	-1.195898292	0	rps2	ribosomal pro	ENSG00000140988	299	ENSXETG00000020146	1.954626789	0	ezh2	enhancer of z	ENSG00000106462
300	ENSXETG00000026602	-1.195470967	0	gsto2	glutathione S	ENSG00000065621,ENSG00	300	ENSXETG00000020878	1.953240922	7.50E-09	atp8b1	ATPase phosp	ENSG00000081923
301	ENSXETG00000025319	-1.193876359	0	rpl38	ribosomal pro	ENSG00000172809	301	ENSXETG00000000473	1.949230953	7.02E-39	bin1	bridging integ	ENSG00000136717
302	ENSXETG00000018137	-1.193875018	0	rps24	ribosomal pro	ENSG00000138326	302	ENSXETG00000019362	1.947251017	4.36E-09	XB-GENE-5742361	hypothetical	ENSG00000132703,ENSG00000132693
303	ENSXETG00000018756	-1.193450453	3.02E-14	b3gnt6	UDP-GlcNAc:b	ENSG00000177191	303	ENSXETG00000019636	1.943381835	2.44E-07	glt8d2	glycosyltransf	ENSG00000120820
304	ENSXETG00000002899	-1.193283964	0	zfp36	ZFP36 ring fin	ENSG00000128016	304	ENSXETG00000011637	1.941407944	3.97E-10	pde4a	phosphodiest	ENSG00000065989
305	ENSXETG00000030425	-1.189990584	0.001263598	ENSXETG00000030425		ENSG00000084207	305	ENSXETG00000006965	1.940571844	6.05E-98	pxdn	peroxidasin	ENSG00000130508
306	ENSXETG00000009324	-1.189747175	0	ip6k2	inositol hexap	ENSG00000068745	306	ENSXETG00000010209	1.939014051	5.39E-52	smc2	structural ma	ENSG00000136824
307	ENSXETG00000029104	-1.186368795	0.003064213	xtr-mir-429		ENSG00000198976	307	ENSXETG00000006573	1.935899031	8.73E-27	mier2	mesoderm ind	ENSG00000105556
308	ENSXETG00000023719	-1.186096518	0	rpl23	ribosomal pro	ENSG00000125691	308	ENSXETG00000027282	1.93131665	0	flvcr2	feline leukem	ENSG00000119686
309	ENSXETG00000027362	-1.186037297	0.001261781	wisp2	WNT1 inducib	ENSG00000064205	309	ENSXETG00000000847	1.925634611	1.08E-25	ENSXETG00000000847		ENSG00000169919
310	ENSXETG00000026094	-1.184125175	1.07E-35	ercc1	excision repai	ENSG00000012061	310	ENSXETG00000010725	1.925233621	7.89E-49	serpinh1	serpin peptid	ENSG00000149257
311	ENSXETG00000013333	-1.183057404	0	enpep	glutamyl amin	ENSG00000138792	311	ENSXETG00000009983	1.92483108	1.45E-26	birc5.2	baculoviral IA	ENSG00000089685
312	ENSXETG00000001622	-1.179350596	3.12E-09	hcrtr2	hypocretin (o	ENSG00000137252	312	ENSXETG00000021232	1.924475761	1.80E-15	zbtb45	zinc finger an	ENSG00000119574
313	ENSXETG00000008727	-1.178092859	2.22E-232	ENSXETG00000008727		ENSG00000084207	313	ENSXETG00000021586	1.915755624	7.17E-40	nlrx1	NLR family m	ENSG00000160703
314	ENSXETG00000009313	-1.177944001	0	adh1b		ENSG00000248144,ENSG00	314	ENSXETG00000008524	1.910598169	5.11E-20	tacr1	tachykinin re	ENSG00000115353
315	ENSXETG00000030856	-1.177077791	3.48E-25	ENSXETG00000030856		ENSG00000144035	315	ENSXETG00000015130	1.904564565	4.27E-26	cacna1s	calcium chan	ENSG00000081248
316	ENSXETG00000030937	-1.174764756	1.42E-07	ENSXETG00000030937		ENSG00000150667	316	ENSXETG00000002637	1.90381816	1.76E-104	col4a1	collagen, type	ENSG00000187498
317	ENSXETG00000024697	-1.173319315	5.51E-25	siva1	SIVA1, apopto	ENSG00000184990	317	ENSXETG00000020840	1.901285661	3.61E-31	ndc80	NDC80 kineto	ENSG00000080986
318	ENSXETG00000002161	-1.171212894	0	gnl2	guanine nucle	ENSG00000134697	318	ENSXETG00000017377	1.899719239	6.69E-12	pcolce	procollagen C	ENSG00000106333
319	ENSXETG00000012885	-1.168823358	2.03E-24	traf3ip2	TRAF3 interac	ENSG00000056972	319	ENSXETG00000002100	1.898997399	1.15E-19	mad2l1	mitotic arrest	ENSG00000164109
320	ENSXETG00000030573	-1.168357818	0	rpl39		ENSG00000163923,ENSG00	320	ENSXETG00000002725	1.898486957	0	bpnt1	3'(2'), 5'-bisph	ENSG00000162813
321	ENSXETG00000002842	-1.168089726	7.17E-16	alkbh6	alkB homolog	ENSG00000239382	321	ENSXETG00000003447	1.89652306	1.14E-174	atp13a3	ATPase type 1	ENSG00000133657
322	ENSXETG00000019578	-1.16582963	0	vav2	vav guanine n	ENSG00000160293	322	ENSXETG00000018715	1.896436786	2.86E-40	olfm4	olfactomedin	ENSG00000102837
323	ENSXETG00000009754	-1.16213628	0	idh3a	isocitrate deh	ENSG00000166411	323	ENSXETG00000016245	1.893535374	4.38E-07	tmem52b	transmembra	ENSG00000165685
324	ENSXETG00000019435	-1.159477373	1.50E-47	ttc14	tetratricopep	ENSG00000163728	324	ENSXETG00000026822	1.890548346	3.60E-06	slc19a3		ENSG00000135917
325	ENSXETG00000022960	-1.159119469	2.58E-127	aqp10	aquaporin 10	ENSG00000143595	325	ENSXETG00000017718	1.887727827	8.53E-35	mtfr2	mitochondria	ENSG00000146410
326	ENSXETG00000025213	-1.158898604	0.006805843	mgp	matrix Gla pro	ENSG00000111341	326	ENSXETG00000009700	1.88439161	1.24E-63	rin2	Ras and Rab i	ENSG00000132669
327	ENSXETG00000006911	-1.158515458	2.05E-07	cbx7	chromobox 7	ENSG00000100307	327	ENSXETG00000012142	1.882240401	4.45E-56	ppp1r16b	protein phosp	ENSG00000101445
328	ENSXETG00000001388	-1.158353099	1.22E-145	dhrs3	dehydrogenas	ENSG00000162496	328	ENSXETG00000011189	1.878455657	1.59E-20	gli2	GLI family zin	ENSG00000074047
329	ENSXETG00000018640	-1.156596949	4.29E-41	TARS2		ENSG00000143374	329	ENSXETG00000004290	1.875524667	7.76E-08	mtcl1	microtubule c	ENSG00000168502
330	ENSXETG00000017449	-1.15640083	0	srebf2	sterol regulat	ENSG00000198911	330	ENSXETG00000015100	1.872854445	2.95E-31	ttc39c	tetratricopep	ENSG00000168234
331	ENSXETG00000021160	-1.153750828	2.61E-76	znf395	zinc finger pro	ENSG00000186918	331	ENSXETG00000000274	1.872269215	6.36E-81	trpm5	transient rece	ENSG00000130529
332	ENSXETG00000007073	-1.152819348	4.23E-31	ccdc82	coiled-coil do	ENSG00000149231	332	ENSXETG00000007772	1.869085704	1.28E-21	plch1	phospholipas	ENSG00000114805
333	ENSXETG00000027405	-1.152626423	1.95E-56	dus3l	dihydrouridin	ENSG00000267157	333	ENSXETG00000001227	1.861569715	1.30E-08	dpysl5	dihydropyrim	ENSG00000157851
334	ENSXETG00000017973	-1.151701855	5.16E-15	stap1	signal transdu	ENSG00000035720	334	ENSXETG00000021703	1.857434674	1.75E-35	fmnl2	formin like 2	ENSG00000157827
335	ENSXETG00000016843	-1.148392052	0	rpl35	ribosomal pro	ENSG00000136942	335	ENSXETG00000008045	1.854479785	1.04E-06	kazald1	Kazal type ser	ENSG00000107821
336	ENSXETG00000012271	-1.14751513	4.75E-33	yars2	tyrosyl-tRNA	ENSG00000139131	336	ENSXETG00000026373	1.851543242	2.37E-27	KIF20B		ENSG00000138182
337	ENSXETG00000012024	-1.147188098	0	slc15a2	solute carrier	ENSG00000163406	337	ENSXETG00000024618	1.850171358	2.22E-38	rbm24	RNA binding	ENSG00000112183
338	ENSXETG00000024649	-1.146637892	0	irf2bp2	interferon reg	ENSG00000168264	338	ENSXETG00000000161	1.848549208	1.14E-59	sae1	SUMO1 activa	ENSG00000142230
339	ENSXETG00000015630	-1.146136615	0	ccdc68		ENSG00000166510	339	ENSXETG00000007838	1.846988913	7.66E-18	adamts7	ADAM metall	ENSG00000136378
340	ENSXETG00000023711	-1.145456476	1.14E-284	rpl19	ribosomal pro	ENSG00000108298	340	ENSXETG00000014481	1.844035361	1.58E-23	gadl1	glutamate de	ENSG00000144644
341	ENSXETG00000006221	-1.14408322	6.19E-18	arsd	arylsulfatase	ENSG00000062096,ENSG00	341	ENSXETG00000023614	1.842879689	1.12E-24	nkx6-2	NK6 homeob	ENSG00000148826
342	ENSXETG00000016819	-1.142849459	0	btf3	basic transcri	ENSG00000145741	342	ENSXETG00000016685	1.83751151	5.69E-84	hps5	Hermansky-P	ENSG00000110756
343	ENSXETG00000029963	-1.142689603	3.13E-109	WWP1		ENSG00000123124	343	ENSXETG00000011400	1.836126455	1.01E-09	casr	calcium-sensi	ENSG00000036828
344	ENSXETG00000018610	-1.141726724	0	gk	glycerol kinas	ENSG00000196475,ENSG00	344	ENSXETG00000015018	1.83566177	1.06E-21	fkbp7	FK506 binding	ENSG00000079150
345	ENSXETG00000012540	-1.139578246	4.86E-12	tor3a	torsin family	ENSG00000186283	345	ENSXETG00000007165	1.835655135	9.19E-28	myo10.2	myosin 10, ge	ENSG00000068137
346	ENSXETG00000008642	-1.139435355	2.29E-156	rpf1	ribosome pro	ENSG00000117133	346	ENSXETG00000027772	1.826123502	1.70E-08	hmga2	high mobility	ENSG00000149948
347	ENSXETG00000023100	-1.138709011	0	rps6	ribosomal pro	ENSG00000137154	347	ENSXETG00000022431	1.82229009	6.00E-08	fgb	fibrinogen be	ENSG00000171564
348	ENSXETG00000027840	-1.138273207	0	rpl36	ribosomal pro	ENSG00000130255	348	ENSXETG00000022669	1.821012334	0	mmp14	matrix metall	ENSG00000157227
349	ENSXETG00000007518	-1.138028589	2.62E-45	cdca7	cell division c	ENSG00000144354	349	ENSXETG00000006535	1.819179257	6.04E-11	prickle2	prickle planar	ENSG00000163637
350	ENSXETG00000003382	-1.137588444	1.55E-124	pyy	peptide YY	ENSG00000131096	350	ENSXETG00000012308	1.8163938	8.88E-12	kcng1	potassium ch	ENSG00000026559
351	ENSXETG00000027811	-1.137576608	0	rps23	ribosomal pro	ENSG00000186468	351	ENSXETG00000010435	1.814579311	5.64E-17	prss23	protease, seri	ENSG00000150687
352	ENSXETG00000022747	-1.135563469	2.87E-61	aass	aminoadipate	ENSG00000008311	352	ENSXETG00000007614	1.81127041	1.34E-65	epha4	EPH receptor	ENSG00000116106
353	ENSXETG00000009832	-1.1353909	1.06E-55	nipal1	NIPA-like dom	ENSG00000163293	353	ENSXETG00000011184	1.809452685	9.11E-122	lmbr1l	limb develop	ENSG00000139636
354	ENSXETG00000002942	-1.134844492	0	rps15a	ribosomal pro	ENSG00000134419	354	ENSXETG00000027636	1.804778783	1.52E-06	c1r	complement	ENSG00000159403,ENSG00000139178
355	ENSXETG00000000172	-1.132917982	4.91E-207	maf	v-maf avian m	ENSG00000178573	355	ENSXETG00000024528	1.803960847	2.05E-08	CFAP70		ENSG00000156042
356	ENSXETG00000018175	-1.131433974	1.11E-25	drp2	dystrophin re	ENSG00000102385	356	ENSXETG00000000312	1.798426006	2.40E-14	XB-GENE-981231	Putative orth	ENSG00000118193
357	ENSXETG00000012903	-1.130672097	1.86E-95	nup188	nucleoporin 1	ENSG00000095319,ENSG00	357	ENSXETG00000010042	1.792083207	6.26E-150	gusb	glucuronidase	ENSG00000169919
358	ENSXETG00000026175	-1.129779033	0	timm23	translocase o	ENSG00000265354,ENSG00	358	ENSXETG00000007405	1.789363838	1.40E-277	dfna5	gasdermin E	ENSG00000105928
359	ENSXETG00000010811	-1.129587256	0	rpl29	ribosomal pro	ENSG00000162244	359	ENSXETG00000012198	1.784618753	1.97E-236	nid2	nidogen 2	ENSG00000087303
360	ENSXETG00000016932	-1.129236778	6.21E-200	pnp	purine nucleo	ENSG00000198805	360	ENSXETG00000020013	1.782906015	7.13E-15	cenpl	centromere p	ENSG00000120334
361	ENSXETG00000012711	-1.128099167	1.20E-10	ppargc1b	peroxisome p	ENSG00000155846	361	ENSXETG00000019797	1.782200467	1.46E-11	hapln1	hyaluronan a	ENSG00000145681
362	ENSXETG00000007362	-1.126883902	8.50E-73	slc35c2	solute carrier	ENSG00000080189	362	ENSXETG00000000108	1.780131957	4.90E-08	slc18b1	solute carrier	ENSG00000146409
363	ENSXETG00000000688	-1.125282894	0	pinx1	PIN2/TERF1 in	ENSG00000254093	363	ENSXETG00000026166	1.779912592	1.73E-05	arl13a	ADP ribosylat	ENSG00000174225
364	ENSXETG00000001321	-1.123910928	8.08E-16	ENSXETG00000001321		ENSG00000117500	364	ENSXETG00000000310	1.779365809	8.25E-10	wdr47	WD repeat do	ENSG00000085433
365	ENSXETG00000001262	-1.122011918	5.55E-13	slc16a6	solute carrier	ENSG00000108932	365	ENSXETG00000018688	1.776405011	2.75E-06	ENSXETG00000018688		ENSG00000143127
366	ENSXETG00000001263	-1.121829158	5.84E-134	mat2a	methionine a	ENSG00000168906	366	ENSXETG00000013214	1.776105385	1.39E-112	vash1	vasohibin 1	ENSG00000071246
367	ENSXETG00000024127	-1.121142731	0.001830317	st8sia2	ST8 alpha-N-a	ENSG00000140557	367	ENSXETG00000009287	1.774997585	3.63E-32	dync2li1	dynein, cytop	ENSG00000138036
368	ENSXETG00000001209	-1.121034427	0	rps7	ribosomal pro	ENSG00000171863	368	ENSXETG00000018293	1.774847264	1.37E-11	kcnip1	Kv channel in	ENSG00000182132
369	ENSXETG00000001178	-1.118649578	0	rpl11	ribosomal pro	ENSG00000142676	369	ENSXETG00000008982	1.766919774	8.63E-09	grb14	growth factor	ENSG00000115290
370	ENSXETG00000022342	-1.117150017	1.03E-261	nop16	NOP16 nucleo	ENSG00000048162	370	ENSXETG00000022341	1.76301743	0	col5a1	collagen, type	ENSG00000130635
371	ENSXETG00000025457	-1.114536804	0	rpl7	ribosomal pro	ENSG00000147604	371	ENSXETG00000004282	1.762742013	6.12E-13	kif18a	kinesin family	ENSG00000121621
372	ENSXETG00000000800	-1.113618446	7.64E-110	pnisr	PNN-interacti	ENSG00000132424	372	ENSXETG00000021265	1.761079961	2.27E-64	itga5	integrin subu	ENSG00000161638
373	ENSXETG00000028035	-1.113442	9.22E-54	akap8l	A-kinase anch	ENSG00000011243	373	ENSXETG00000000504	1.757279653	0	acmsd	aminocarbox	ENSG00000153086
374	ENSXETG00000016481	-1.112543021	1.08E-63	gjb3	gap junction p	ENSG00000188910	374	ENSXETG00000003539	1.755974261	1.09E-09	dydc1	DPY30 domai	ENSG00000170788
375	ENSXETG00000005247	-1.111943677	0	eif3i	eukaryotic tra	ENSG00000084623	375	ENSXETG00000021408	1.752482891	5.06E-07	dnah5	dynein axone	ENSG00000039139
376	ENSXETG00000010649	-1.110905582	9.13E-121	trip4	thyroid horm	ENSG00000103671	376	ENSXETG00000023803	1.75246803	1.23E-26	hic1	hypermethyla	ENSG00000177374
377	ENSXETG00000018150	-1.108914952	0	rpl36a	ribosomal pro	ENSG00000241343,ENSG00	377	ENSXETG00000000906	1.750355061	9.28E-07	tbc1d19	TBC1 domain	ENSG00000109680
378	ENSXETG00000019938	-1.108484197	8.43E-44	fnbp4	formin bindin	ENSG00000109920	378	ENSXETG00000017882	1.747377682	1.63E-05	fbxo43	F-box protein	ENSG00000156509
379	ENSXETG00000004232	-1.106849163	0	ggt1	gamma-glutar	ENSG00000274252,ENSG00	379	ENSXETG00000007561	1.739996623	1.67E-05	cat.1	catalase, gene	ENSG00000121691
380	ENSXETG00000029196	-1.106395988	0.009058029	xtr-mir-194-1		ENSG00000277225	380	ENSXETG00000021531	1.739697277	8.19E-70	antxr2	anthrax toxin	ENSG00000163297
381	ENSXETG00000008000	-1.106035269	2.52E-43	hnf1b	HNF1 homeol	ENSG00000275410	381	ENSXETG00000018009	1.737456843	1.01E-122	fstl1	follistatin like	ENSG00000163430
382	ENSXETG00000005077	-1.105054886	0	nsa2	NSA2, ribosor	ENSG00000164346	382	ENSXETG00000003265	1.735656265	7.87E-11	b4galt2	UDP-Gal:beta	ENSG00000117411
383	ENSXETG00000003420	-1.104773865	2.38E-120	pex1	peroxisomal b	ENSG00000127980	383	ENSXETG00000022839	1.733954707	1.47E-26	mecom	MDS1 and EV	ENSG00000085276
384	ENSXETG00000023096	-1.10218504	2.84E-50	rexo4	REX4 homolo	ENSG00000148300	384	ENSXETG00000021253	1.73119044	7.07E-07	kif18b	kinesin family	ENSG00000186185
385	ENSXETG00000000739	-1.101062824	1.43E-83	dnlz	DNL-type zinc	ENSG00000213221	385	ENSXETG00000006614	1.730092098	1.29E-154	sgms1	sphingomyeli	ENSG00000198964
386	ENSXETG00000015468	-1.098236983	0	rpl37a	ribosomal pro	ENSG00000197756	386	ENSXETG00000019945	1.726495144	3.41E-06	slc35e4	solute carrier	ENSG00000100036
387	ENSXETG00000020299	-1.098169374	0	pon2	paraoxonase	ENSG00000005421,ENSG00	387	ENSXETG00000005121	1.724703655	5.31E-29	slc16a9	solute carrier	ENSG00000165449
388	ENSXETG00000019929	-1.097586955	4.20E-17	c16orf91	chromosome	ENSG00000174109	388	ENSXETG00000012981	1.723713486	9.22E-102	cemip	cell migration	ENSG00000103888
389	ENSXETG00000026372	-1.09661209	0	eef1g	eukaryotic tra	ENSG00000254772	389	ENSXETG00000008495	1.723608669	3.06E-05	ntf3	neurotrophin	ENSG00000185652
390	ENSXETG00000021803	-1.096308115	4.58E-46	spryd4	SPRY domain	ENSG00000176422	390	ENSXETG00000015929	1.720602525	2.65E-08	gxylt2	glucoside xylo	ENSG00000172986
391	ENSXETG00000016391	-1.096226837	4.72E-37	mettl21a	methyltransfe	ENSG00000144401	391	ENSXETG00000008208	1.716894168	1.48E-49	gmcl1	germ cell-less	ENSG00000087338
392	ENSXETG00000020355	-1.095586856	0	rps5	ribosomal pro	ENSG00000083845	392	ENSXETG00000016622	1.71557567	2.63E-55	snn	stannin	ENSG00000184602
393	ENSXETG00000022133	-1.095154474	1.85E-160	u2surp	U2 snRNP ass	ENSG00000163714	393	ENSXETG00000023585	1.714779553	4.56E-10	dpysl4	dihydropyrim	ENSG00000151640
394	ENSXETG00000021106	-1.095041217	0	cyp2u1	cytochrome P	ENSG00000155016	394	ENSXETG00000005198	1.712599144	1.19E-29	psmb7.2	proteasome s	ENSG00000205220
395	ENSXETG00000007803	-1.094864967	7.03E-34	gcfc2	GC-rich seque	ENSG00000005436	395	ENSXETG00000029971	1.710183455	3.86E-05	DPF1		ENSG00000011332
396	ENSXETG00000030953	-1.094215471	1.09E-139	FILIP1L		ENSG00000168386	396	ENSXETG00000002013	1.708599848	4.97E-83	cables2	Cdk5 and Abl	ENSG00000149679
397	ENSXETG00000022128	-1.092833572	0	slc7a7	solute carrier	ENSG00000155465	397	ENSXETG00000010136	1.703718785	2.97E-10	homer3	homer scaffo	ENSG00000051128
398	ENSXETG00000010071	-1.091782384	2.85E-21	ccdc84	coiled-coil do	ENSG00000186166	398	ENSXETG00000001795	1.703506892	2.83E-09	lmnb2	lamin B2	ENSG00000176619
399	ENSXETG00000017962	-1.091203405	2.27E-25	tmprss11f	transmembra	ENSG00000185873,ENSG00	399	ENSXETG00000015832	1.702627491	6.14E-82	anxa6	annexin A6	ENSG00000197043
400	ENSXETG00000000617	-1.090858031	1.14E-15	atr	ATR serine/th	ENSG00000175054	400	ENSXETG00000005761	1.70065705	6.16E-13	col14a1	collagen, type	ENSG00000187955
401	ENSXETG00000004304	-1.090501134	0	rpl6	ribosomal pro	ENSG00000089009	401	ENSXETG00000022442	1.700597772	8.62E-49	mal	mal, T-cell dif	ENSG00000172005
402	ENSXETG00000001352	-1.087791902	9.73E-116	ssfa2	sperm specifi	ENSG00000138434	402	ENSXETG00000006252	1.699816753	1.04E-21	ENSXETG00000006252		ENSG00000182938
403	ENSXETG00000007874	-1.087421753	1.44E-22	sema3c	semaphorin 3	ENSG00000075223	403	ENSXETG00000006073	1.699258065	4.29E-12	depdc1b	DEP domain c	ENSG00000035499
404	ENSXETG00000023064	-1.084762999	3.54E-60	ppp1r13b	protein phosp	ENSG00000088808	404	ENSXETG00000004692	1.69852267	1.20E-16	DCHS1		ENSG00000166341
405	ENSXETG00000004457	-1.084729534	2.33E-135	c21orf33	chromosome	ENSG00000276612,ENSG00	405	ENSXETG00000014140	1.697990226	1.70E-07	runx1	runt related t	ENSG00000159216
406	ENSXETG00000029142	-1.084351727	0.011275348	xtr-mir-23a-1		ENSG00000207980	406	ENSXETG00000013827	1.697574677	2.50E-05	tmem255b	transmembra	ENSG00000184497
407	ENSXETG00000008839	-1.083447819	8.86E-88	nifk	nucleolar pro	ENSG00000155438	407	ENSXETG00000005275	1.697167542	3.61E-05	myom3	myomesin 3	ENSG00000142661
408	ENSXETG00000025753	-1.083228602	4.94E-41	wwc2	WW and C2 d	ENSG00000151718	408	ENSXETG00000004755	1.69420914	2.95E-24	lrrc52	leucine rich re	ENSG00000162763
409	ENSXETG00000008682	-1.081524594	1.04E-220	ENSXETG00000008682		ENSG00000087086	409	ENSXETG00000016064	1.694007962	9.34E-07	tekt4	tektin 4	ENSG00000163060,ENSG00000274847
410	ENSXETG00000003870	-1.081177414	1.00E-272	rpl15	ribosomal pro	ENSG00000174748	410	ENSXETG00000015485	1.693935634	6.44E-08	mycn	MYCN proto-c	ENSG00000134323
411	ENSXETG00000022287	-1.081041073	6.13E-131	ttc13	tetratricopep	ENSG00000143643	411	ENSXETG00000018039	1.690402145	5.21E-07	cntfr	ciliary neurot	ENSG00000122756
412	ENSXETG00000027727	-1.080175863	9.71E-113	nmd3	NMD3 riboso	ENSG00000169251	412	ENSXETG00000001565	1.690309816	0	col4a5	collagen, type	ENSG00000188153
413	ENSXETG00000013492	-1.079795997	0	insig1	insulin induce	ENSG00000186480	413	ENSXETG00000001473	1.690254818	3.99E-176	tmcc1	transmembra	ENSG00000172765
414	ENSXETG00000024679	-1.079766984	0	spats2	spermatogen	ENSG00000123352	414	ENSXETG00000013147	1.689351133	6.28E-11	adamts9	ADAM metall	ENSG00000163638
415	ENSXETG00000022007	-1.079371403	2.00E-118	fpgs	folylpolygluta	ENSG00000136877	415	ENSXETG00000004700	1.681210574	2.86E-06	hpx	hemopexin	ENSG00000110169
416	ENSXETG00000020010	-1.078594936	1.08E-178	dhcr24	24-dehydroch	ENSG00000116133	416	ENSXETG00000020173	1.674580497	5.61E-15	epha3	EPH receptor	ENSG00000044524
417	ENSXETG00000003891	-1.078398357	1.82E-74	orc6	origin recogn	ENSG00000091651	417	ENSXETG00000025730	1.672919153	2.35E-05	pgc	progastricsin	ENSG00000096088
418	ENSXETG00000021857	-1.078142481	1.03E-214	rbm25	RNA binding m	ENSG00000119707	418	ENSXETG00000006710	1.672708136	5.85E-57	cdc25c	cell division c	ENSG00000158402
419	ENSXETG00000000914	-1.074941629	0	msmo1		ENSG00000052802	419	ENSXETG00000022117	1.672523745	1.06E-31	brwd3	bromodomain	ENSG00000165288
420	ENSXETG00000020781	-1.074373693	4.51E-52	utp23	UTP23, small	ENSG00000147679	420	ENSXETG00000023798	1.668873279	1.26E-14	clu	clusterin	ENSG00000120885
421	ENSXETG00000003066	-1.074247118	1.36E-95	prpf39.1	pre-mRNA pro	ENSG00000185246	421	ENSXETG00000024624	1.667165578	5.36E-29	kif13a	kinesin family	ENSG00000137177
422	ENSXETG00000016928	-1.074086704	3.80E-63	stard13	StAR related l	ENSG00000133121	422	ENSXETG00000002635	1.666958073	8.98E-62	col4a2	collagen, type	ENSG00000134871
423	ENSXETG00000002414	-1.073089888	0	atp1b1	ATPase Na+/K	ENSG00000143153	423	ENSXETG00000016057	1.660755068	0	tst	thiosulfate su	ENSG00000128311
424	ENSXETG00000018683	-1.072943377	2.66E-70	ENSXETG00000018683		ENSG00000179148,ENSG00	424	ENSXETG00000018208	1.659606914	7.43E-19	wdcp	WD repeat an	ENSG00000163026
425	ENSXETG00000000326	-1.072664207	1.01E-12	TMTC1		ENSG00000133687	425	ENSXETG00000004500	1.659558696	5.78E-14	mcm8	minichromos	ENSG00000125885
426	ENSXETG00000006697	-1.072260613	5.15E-236	egr1	early growth	ENSG00000120738	426	ENSXETG00000014834	1.65852503	4.35E-26	ptch1	patched 1	ENSG00000185920
427	ENSXETG00000007539	-1.072229814	1.22E-133	znf622	zinc finger pro	ENSG00000173545	427	ENSXETG00000009697	1.657692567	5.06E-05	cfap61	cilia and flage	ENSG00000089101
428	ENSXETG00000012111	-1.071878454	0	epb41l1	erythrocyte m	ENSG00000088367	428	ENSXETG00000002603	1.655369537	6.09E-05	gas2	growth arrest	ENSG00000148935
429	ENSXETG00000020308	-1.071614444	0	rpl17	ribosomal pro	ENSG00000265681,ENSG00	429	ENSXETG00000006199	1.655093538	6.39E-05	mapk10	mitogen-activ	ENSG00000109339
430	ENSXETG00000008830	-1.070358367	1.85E-61	hells	helicase, lym	ENSG00000119969	430	ENSXETG00000002548	1.653592428	1.93E-74	tpx2	TPX2, microtu	ENSG00000088325
431	ENSXETG00000018622	-1.069801183	0.012476952	lrrc3	leucine rich re	ENSG00000160233	431	ENSXETG00000007799	1.652164347	4.22E-15	kntc1	kinetochore a	ENSG00000184445
432	ENSXETG00000007350	-1.069196803	4.07E-225	sod1	superoxide di	ENSG00000142168	432	ENSXETG00000007501	1.651433396	2.34E-64	fscn1	fascin actin-b	ENSG00000075618
433	ENSXETG00000022440	-1.067524066	7.65E-46	mrps5	mitochondria	ENSG00000144029	433	ENSXETG00000023413	1.650443892	4.84E-19	tubb3	tubulin beta 3	ENSG00000198211,ENSG00000258947
434	ENSXETG00000015483	-1.067429186	0	rpl8	ribosomal pro	ENSG00000161016	434	ENSXETG00000012764	1.648239168	1.60E-27	tnfaip2	TNF alpha ind	ENSG00000205436
435	ENSXETG00000026232	-1.067398576	5.84E-194	slc31a1	solute carrier	ENSG00000136868	435	ENSXETG00000001073	1.648117348	3.15E-06	gcnt2	glucosaminyl	ENSG00000111846
436	ENSXETG00000013820	-1.067057075	7.66E-183	chst10	carbohydrate	ENSG00000115526	436	ENSXETG00000018144	1.647457014	7.50E-16	DIAPH3		ENSG00000139734
437	ENSXETG00000008061	-1.066957241	3.45E-109	zcchc11	zinc finger CC	ENSG00000134744	437	ENSXETG00000011941	1.635429051	1.04E-26	tmem132a	transmembra	ENSG00000006118
438	ENSXETG00000022939	-1.066688307	5.38E-125	dhfr	dihydrofolate	ENSG00000178700,ENSG00	438	ENSXETG00000010085	1.634551342	0	ENSXETG00000010085	sulfotransfera	ENSG00000105398
439	ENSXETG00000008690	-1.06438989	6.18E-15	mettl22	methyltransfe	ENSG00000067365	439	ENSXETG00000006456	1.632554705	6.84E-09	uggt2	UDP-glucose	ENSG00000102595
440	ENSXETG00000004519	-1.064170479	0	rps27a	ribosomal pro	ENSG00000143947	440	ENSXETG00000014841	1.632443097	1.11E-54	habp4	hyaluronan b	ENSG00000130956
441	ENSXETG00000001796	-1.063919142	0.013395455	lrrc14b	leucine rich re	ENSG00000185028	441	ENSXETG00000009626	1.630866051	2.89E-13	cenpi	centromere p	ENSG00000102384
442	ENSXETG00000006017	-1.06383644	4.24E-296	errfi1	ERBB recepto	ENSG00000116285	442	ENSXETG00000003878	1.630598133	6.53E-73	fam53a	family with se	ENSG00000174137
443	ENSXETG00000025510	-1.063713422	0	rps19	ribosomal pro	ENSG00000105372	443	ENSXETG00000021089	1.63026046	4.33E-24	uchl1	ubiquitin C-te	ENSG00000154277
444	ENSXETG00000024911	-1.063704149	8.49E-07	tgfa	transforming	ENSG00000163235	444	ENSXETG00000020230	1.628969193	8.99E-20	hs3st5	heparan sulfa	ENSG00000249853
445	ENSXETG00000021546	-1.063011862	5.95E-229	cyp26b1	cytochrome P	ENSG00000003137	445	ENSXETG00000016612	1.628190345	7.98E-05	gnrhr	gonadotropin	ENSG00000109163
446	ENSXETG00000013641	-1.062115635	0.013562398	g6pc	glucose-6-pho	ENSG00000131482	446	ENSXETG00000003133	1.627297001	1.76E-09	tmem26	transmembra	ENSG00000196932
447	ENSXETG00000012856	-1.060847343	0	rpl9	ribosomal pro	ENSG00000163682	447	ENSXETG00000004623	1.625824214	1.02E-32	syt8	synaptotagmi	ENSG00000149043
448	ENSXETG00000019116	-1.06064282	9.94E-07	ENSXETG00000019116		ENSG00000135299	448	ENSXETG00000031325	1.623956215	2.15E-203	S100P		ENSG00000163993
449	ENSXETG00000023792	-1.060150601	0	poldip2	polymerase (D	ENSG00000004142	449	ENSXETG00000025480	1.623325713	3.34E-05	epyc	epiphycan	ENSG00000083782
450	ENSXETG00000002209	-1.059860895	5.46E-49	rel	v-rel avian ret	ENSG00000162924	450	ENSXETG00000030458	1.620279482	4.58E-05	ENSXETG00000030458		ENSG00000125730
451	ENSXETG00000007932	-1.058276612	0	gcdh	glutaryl-CoA	ENSG00000105607	451	ENSXETG00000013251	1.619944327	1.10E-07	nceh1	neutral chole	ENSG00000144959
452	ENSXETG00000024782	-1.05741086	0	rpl26	ribosomal pro	ENSG00000037241	452	ENSXETG00000022020	1.619851035	3.77E-07	fam198a	family with se	ENSG00000144649
453	ENSXETG00000005661	-1.057139767	0	cyp7a1	cytochrome P	ENSG00000167910	453	ENSXETG00000010680	1.619126455	8.83E-05	shisa2	shisa family m	ENSG00000180730
454	ENSXETG00000005972	-1.0564007	3.48E-15	ccnd2	cyclin D2	ENSG00000118971	454	ENSXETG00000001619	1.618548522	3.16E-12	myom1	myomesin 1	ENSG00000101605
455	ENSXETG00000007453	-1.056176143	2.38E-118	cubn	cubilin	ENSG00000107611	455	ENSXETG00000019581	1.612998243	2.36E-05	hs3st3a1	heparan sulfa	ENSG00000153976,ENSG00000125430
456	ENSXETG00000003895	-1.056103482	3.51E-07	gpt	glutamic-pyru	ENSG00000166123	456	ENSXETG00000008782	1.611369417	0.000102589	shc4	SHC (Src hom	ENSG00000185634
457	ENSXETG00000013175	-1.056098447	1.20E-264	gca	grancalcin	ENSG00000115271	457	ENSXETG00000021645	1.610675479	1.17E-07	hal.2	histidine amn	ENSG00000084110
458	ENSXETG00000014962	-1.055113904	0	nop56	NOP56 ribonu	ENSG00000101361	458	ENSXETG00000019498	1.609241311	6.01E-11	fam198b	family with se	ENSG00000164125
459	ENSXETG00000012897	-1.054541121	3.74E-14	dph6	diphthamine	ENSG00000134146	459	ENSXETG00000006665	1.608993544	4.57E-52	tp53inp1	tumor protein	ENSG00000164938
460	ENSXETG00000020012	-1.053902546	3.04E-152	pcsk9	proprotein co	ENSG00000169174	460	ENSXETG00000021948	1.607581244	1.42E-07	chtf8	chromosome	ENSG00000168802
461	ENSXETG00000023654	-1.053160343	3.76E-23	il17re	interleukin 17	ENSG00000163701	461	ENSXETG00000001638	1.607453113	9.97E-215	ehd1	EH domain co	ENSG00000110047
462	ENSXETG00000019024	-1.053027711	0	rplp2	ribosomal pro	ENSG00000177600	462	ENSXETG00000016985	1.607345973	8.55E-07	tspan9	tetraspanin 9	ENSG00000011105
463	ENSXETG00000027024	-1.052537045	3.46E-172	rpl37	ribosomal pro	ENSG00000145592	463	ENSXETG00000000484	1.604739856	2.02E-26	serinc5	serine incorp	ENSG00000164300
464	ENSXETG00000030097	-1.052006271	7.54E-190	PES1		ENSG00000100029	464	ENSXETG00000000921	1.603737085	1.41E-12	arhgef3.2	Rho guanine	ENSG00000163947
465	ENSXETG00000002914	-1.050778145	0	rpl22	ribosomal pro	ENSG00000116251	465	ENSXETG00000018545	1.602694082	8.52E-10	fbxo5	F-box protein	ENSG00000112029
466	ENSXETG00000020252	-1.050443344	1.47E-43	plekhn1	pleckstrin hor	ENSG00000187583	466	ENSXETG00000008550	1.602176878	2.55E-20	thbs2	thrombospon	ENSG00000186340
467	ENSXETG00000003432	-1.050198261	1.38E-238	cyp51a1	cytochrome P	ENSG00000001630	467	ENSXETG00000010861	1.600868593	1.16E-05	aqp9	aquaporin 9	ENSG00000103569
468	ENSXETG00000007396	-1.05005121	2.08E-16	igf2bp3	insulin like gro	ENSG00000136231	468	ENSXETG00000012653	1.600855369	2.20E-05	irx2	iroquois hom	ENSG00000170561
469	ENSXETG00000025056	-1.049152808	0.011461041	atp1b2	ATPase, Na+/	ENSG00000129244	469	ENSXETG00000019611	1.595281334	3.48E-15	garnl3	GTPase activa	ENSG00000136895
470	ENSXETG00000022675	-1.048731358	2.14E-78	dopey1	dopey family	ENSG00000083097	470	ENSXETG00000011294	1.594699369	2.35E-17	trim36	tripartite mot	ENSG00000152503
471	ENSXETG00000024999	-1.047554291	0	dnaja2	DnaJ heat sho	ENSG00000069345	471	ENSXETG00000023144	1.593830563	1.19E-19	mfap3l	microfibril as	ENSG00000198948
472	ENSXETG00000023050	-1.047425066	5.06E-10	sqle	squalene epo	ENSG00000104549	472	ENSXETG00000012851	1.591589	2.71E-26	vsig1	V-set and imr	ENSG00000101842
473	ENSXETG00000005657	-1.046537316	5.70E-133	penk	proenkephali	ENSG00000181195	473	ENSXETG00000012311	1.590193681	7.32E-57	nfatc2	nuclear facto	ENSG00000101096
474	ENSXETG00000014662	-1.046196022	1.52E-101	slc38a2	solute carrier	ENSG00000134294	474	ENSXETG00000026547	1.59009514	0.000128999	ENSXETG00000026547		ENSG00000180644
475	ENSXETG00000020354	-1.045351662	2.36E-134	scap	SREBF chaper	ENSG00000114650	475	ENSXETG00000017241	1.589842597	0	ENSXETG00000017241		ENSG00000125730
476	ENSXETG00000023153	-1.045023386	0	ogt	O-linked N-ac	ENSG00000147162	476	ENSXETG00000016582	1.58927234	3.02E-07	recql4	RecQ helicase	ENSG00000160957
477	ENSXETG00000010729	-1.044733442	0	rps3	ribosomal pro	ENSG00000149273	477	ENSXETG00000017911	1.586936762	0	hspg2	heparan sulfa	ENSG00000142798
478	ENSXETG00000025065	-1.044712238	0.015383655	ENSXETG00000025065		ENSG00000138068	478	ENSXETG00000022781	1.58667384	1.68E-44	ets1	v-ets avian er	ENSG00000134954
479	ENSXETG00000000683	-1.044364854	0.010723238	slc7a2.1	solute carrier	ENSG00000003989	479	ENSXETG00000015025	1.584278856	6.77E-05	susd4	sushi domain	ENSG00000143502
480	ENSXETG00000008008	-1.044326299	2.62E-84	kiaa1324	KIAA1324	ENSG00000116299	480	ENSXETG00000024161	1.580972357	8.22E-270	lmna	lamin A/C	ENSG00000160789
481	ENSXETG00000006139	-1.044254455	1.57E-05	ENSXETG00000006139		ENSG00000019505	481	ENSXETG00000030131	1.579296762	0.000157043	KCNT2		ENSG00000162687
482	ENSXETG00000010098	-1.0436079	0	eef1b2	eukaryotic tra	ENSG00000114942	482	ENSXETG00000023750	1.577036025	1.28E-52	slc45a4	solute carrier	ENSG00000022567
483	ENSXETG00000022018	-1.042995315	0	rpl14	ribosomal pro	ENSG00000188846	483	ENSXETG00000005430	1.57633335	8.73E-09	slc12a4	solute carrier	ENSG00000124067
484	ENSXETG00000027008	-1.042211074	0	eif3g	eukaryotic tra	ENSG00000130811	484	ENSXETG00000025253	1.574128873	2.07E-05	ENSXETG00000025253		ENSG00000215704,ENSG00000142615
485	ENSXETG00000019603	-1.042104116	0	tmem52	transmembra	ENSG00000178821	485	ENSXETG00000007649	1.571880739	5.96E-05	c11orf87		ENSG00000185742
486	ENSXETG00000003576	-1.041946609	3.06E-30	chst6	carbohydrate	ENSG00000135702,ENSG00	486	ENSXETG00000011383	1.571584717	1.31E-277	iyd	iodotyrosine	ENSG00000009765
487	ENSXETG00000011667	-1.03850474	7.29E-268	palmd	palmdelphin	ENSG00000099260	487	ENSXETG00000014607	1.570907247	1.80E-87	calb1	calbindin 1	ENSG00000104327
488	ENSXETG00000013647	-1.038418764	0	rpl27	ribosomal pro	ENSG00000131469	488	ENSXETG00000002491	1.56749988	1.59E-09	rundc3b	RUN domain c	ENSG00000105784
489	ENSXETG00000024836	-1.03815618	4.13E-221	rps27	ribosomal pro	ENSG00000185088,ENSG00	489	ENSXETG00000025183	1.566272519	2.40E-08	hoxc5	homeobox C5	ENSG00000273049,ENSG00000172789
490	ENSXETG00000017615	-1.037984086	7.05E-236	akr7a2	aldo-keto red	ENSG00000211454,ENSG00	490	ENSXETG00000024951	1.564888796	1.04E-18	ENSXETG00000024951		ENSG00000159433
491	ENSXETG00000023433	-1.037598873	0.003669834	rnf144a	ring finger pro	ENSG00000151692	491	ENSXETG00000018089	1.564845662	1.43E-28	arhgap11a.1	Rho GTPase a	ENSG00000198826,ENSG00000187951
492	ENSXETG00000014544	-1.037130441	3.08E-19	sdccag8	serologically	ENSG00000054282	492	ENSXETG00000021361	1.564793839	1.24E-16	igfbp4	insulin like gr	ENSG00000141753
493	ENSXETG00000015604	-1.036702917	3.81E-22	ttll12	tubulin tyrosi	ENSG00000100304	493	ENSXETG00000004760	1.563455967	0.000164648	mast1	microtubule a	ENSG00000105613
494	ENSXETG00000009253	-1.036161836	2.54E-57	znf277	zinc finger pro	ENSG00000198839	494	ENSXETG00000017916	1.561091546	1.49E-13	galnt16	polypeptide N	ENSG00000100626
495	ENSXETG00000002019	-1.034328618	0	eps8l3	EPS8-like 3	ENSG00000198758	495	ENSXETG00000020342	1.558633983	1.63E-08	lrrc49	leucine rich re	ENSG00000137821
496	ENSXETG00000003709	-1.033481469	0.005764752	pcsk4	proprotein co	ENSG00000115257	496	ENSXETG00000005782	1.555954002	0.000180129	col8a1	collagen, type	ENSG00000144810
497	ENSXETG00000005345	-1.032545283	1.76E-30	prps2	phosphoribos	ENSG00000101911	497	ENSXETG00000012918	1.554220832	1.82E-60	serinc2	serine incorp	ENSG00000168528
498	ENSXETG00000013336	-1.031193299	1.78E-52	zc3h15	zinc finger CC	ENSG00000065548	498	ENSXETG00000000287	1.553084653	5.47E-17	bub1b	BUB1B, mitot	ENSG00000156970
499	ENSXETG00000001447	-1.031109184	4.13E-19	thumpd3	THUMP doma	ENSG00000134077	499	ENSXETG00000002138	1.552407936	7.10E-11	ENSXETG00000002138		ENSG00000120885
500	ENSXETG00000014487	-1.030298064	9.83E-11	alkbh8	alkB homolog	ENSG00000137760	500	ENSXETG00000008597	1.55192776	1.20E-06	sytl5	synaptotagmi	ENSG00000147041
501	ENSXETG00000030824	-1.029927317	1.51E-43	ENSXETG00000030824		ENSG00000180316	501	ENSXETG00000017649	1.551352271	0.000109954	tmem132e	transmembra	ENSG00000181291
502	ENSXETG00000012374	-1.029023572	0	rpl10a	ribosomal pro	ENSG00000198755	502	ENSXETG00000012140	1.550480769	0.000217048	pdia2	protein disulf	ENSG00000185615
503	ENSXETG00000017816	-1.028433929	3.28E-63	apool	apolipoprotei	ENSG00000155008	503	ENSXETG00000017293	1.55021524	5.11E-35	ephb3	EPH receptor	ENSG00000182580
504	ENSXETG00000006328	-1.028337277	5.58E-91	adsl	adenylosuccin	ENSG00000239900	504	ENSXETG00000006910	1.549388105	9.03E-22	cbx6	chromobox 6	ENSG00000183741
505	ENSXETG00000018172	-1.027572758	3.10E-81	nif3l1	NGG1 interac	ENSG00000196290	505	ENSXETG00000003530	1.547055517	4.89E-09	mat1a	methionine a	ENSG00000151224
506	ENSXETG00000012666	-1.027253915	7.13E-202	c12orf10	chromosome	ENSG00000139637	506	ENSXETG00000006766	1.546379141	6.81E-19	c9	complement	ENSG00000113600
507	ENSXETG00000001837	-1.027025277	3.39E-163	trim2	tripartite mot	ENSG00000109654	507	ENSXETG00000027655	1.546054695	3.26E-27	slc25a40	solute carrier	ENSG00000075303
508	ENSXETG00000004422	-1.025452884	0	myo1a	myosin IA	ENSG00000166866	508	ENSXETG00000014233	1.545597626	0.000215813	avpr2	arginine vaso	ENSG00000126895
509	ENSXETG00000015994	-1.025040782	3.32E-103	elovl5	ELOVL fatty a	ENSG00000012660	509	ENSXETG00000013698	1.5443806	3.88E-31	c18orf54	chromosome	ENSG00000166845
510	ENSXETG00000000985	-1.023881487	1.78E-17	mfsd4a	major facilitat	ENSG00000174514	510	ENSXETG00000013594	1.543244883	2.29E-11	mex3d	mex-3 RNA bi	ENSG00000183496
511	ENSXETG00000018016	-1.023849444	0.00172806	sybu	syntabulin	ENSG00000147642	511	ENSXETG00000020892	1.541568371	0.000190965	gc	group-specific	ENSG00000145321
512	ENSXETG00000007889	-1.022738045	1.37E-42	sult6b1	sulfotransfera	ENSG00000138068	512	ENSXETG00000031179	1.53940038	0.000228793	slc12a5		ENSG00000124140
513	ENSXETG00000018603	-1.022718196	2.44E-13	mvk	mevalonate k	ENSG00000110921	513	ENSXETG00000007412	1.539305822	1.84E-05	dnah11	dynein axone	ENSG00000105877
514	ENSXETG00000006712	-1.022374342	2.02E-07	gfra3	GDNF family r	ENSG00000146013	514	ENSXETG00000013237	1.538219952	4.65E-05	top1.2	DNA topoison	ENSG00000198900
515	ENSXETG00000005191	-1.022187633	4.88E-78	aldh7a1	aldehyde deh	ENSG00000164904	515	ENSXETG00000000659	1.534341045	3.74E-07	efhc1	EF-hand dom	ENSG00000096093
516	ENSXETG00000022301	-1.022153011	1.57E-95	usp30	ubiquitin spe	ENSG00000135093	516	ENSXETG00000006932	1.533702872	9.49E-14	cdh2	cadherin 2	ENSG00000170558
517	ENSXETG00000013316	-1.021891497	6.44E-37	birc7	baculoviral IA	ENSG00000101197	517	ENSXETG00000001463	1.533037895	2.58E-11	ift122	intraflagellar	ENSG00000163913
518	ENSXETG00000023004	-1.020756583	0	rpl5	ribosomal pro	ENSG00000122406	518	ENSXETG00000011613	1.529273175	2.93E-285	slc25a39	solute carrier	ENSG00000013306
519	ENSXETG00000010087	-1.020699186	6.07E-25	kmt2a	lysine methyl	ENSG00000118058	519	ENSXETG00000006585	1.528198027	0.000260684	htr5a	5-hydroxytryp	ENSG00000157219
520	ENSXETG00000024667	-1.02052432	2.63E-300	rpl31	ribosomal pro	ENSG00000071082	520	ENSXETG00000023103	1.527797768	0.000176568	spata18	spermatogen	ENSG00000163071
521	ENSXETG00000030671	-1.019680433	8.40E-24	RRP9		ENSG00000114767	521	ENSXETG00000003349	1.527273503	4.05E-12	poc5	POC5 centrio	ENSG00000152359
522	ENSXETG00000031332	-1.017560032	4.91E-10	CPNE8		ENSG00000139117	522	ENSXETG00000000663	1.52645141	8.53E-88	tram2	translocation	ENSG00000065308
523	ENSXETG00000016903	-1.017459173	5.72E-61	khnyn	KH and NYN d	ENSG00000205978,ENSG00	523	ENSXETG00000018602	1.522819952	7.73E-10	cdc45	cell division c	ENSG00000093009
524	ENSXETG00000004096	-1.015717725	4.02E-17	slc25a32	solute carrier	ENSG00000164933	524	ENSXETG00000018922	1.520279628	2.48E-09	tmem56	transmembra	ENSG00000152078,ENSG00000271092
525	ENSXETG00000015129	-1.015662269	0	rps10	ribosomal pro	ENSG00000124614,ENSG00	525	ENSXETG00000023826	1.518902726	4.78E-40	ncapg	non-SMC con	ENSG00000109805
526	ENSXETG00000018085	-1.015380384	4.17E-130	arrdc3	arrestin doma	ENSG00000113369	526	ENSXETG00000007042	1.513701192	2.20E-07	ren	renin	ENSG00000143839
527	ENSXETG00000003933	-1.014532448	2.51E-08	PDE9A	Putative orth	ENSG00000160191	527	ENSXETG00000013228	1.508854515	2.23E-25	egflam	EGF-like, fibro	ENSG00000164318
528	ENSXETG00000022337	-1.012370099	5.40E-109	arl10	ADP ribosylat	ENSG00000175414	528	ENSXETG00000024931	1.50855676	2.87E-05	igl	immunoglobu	ENSG00000211659,ENSG00000211657,ENSG00000211669,ENSG00000211662,ENSG00000211673,ENSG00000211665,ENSG00000211670,ENSG00000211667,ENSG00000211661,ENSG00000211663,ENSG00000211658
529	ENSXETG00000023034	-1.012033379	6.10E-22	cdc7	cell division c	ENSG00000097046	529	ENSXETG00000000719	1.507748506	4.82E-32	l1cam	L1 cell adhesi	ENSG00000198910
530	ENSXETG00000012273	-1.011888581	0	ttc38	tetratricopep	ENSG00000075234	530	ENSXETG00000004787	1.506991485	4.82E-299	slc41a3	solute carrier	ENSG00000114544
531	ENSXETG00000007983	-1.01131164	0	timm17a	translocase o	ENSG00000134375	531	ENSXETG00000000572	1.506766692	4.22E-20	acvr1b	activin A rece	ENSG00000135503
532	ENSXETG00000000109	-1.011294334	0	rps12	ribosomal pro	ENSG00000112306	532	ENSXETG00000010537	1.506411046	1.08E-158	reep4	receptor acce	ENSG00000168476
533	ENSXETG00000016211	-1.011290639	9.26E-26	dhrs9	dehydrogenas	ENSG00000073737	533	ENSXETG00000007312	1.505031968	7.74E-35	sema3f	semaphorin 3	ENSG00000001617

534	ENSXETG00000011443	-1.011257399	3.29E-66	fbxo33	F-box protein	ENSG00000165355
535	ENSXETG00000017950	-1.010908015	6.50E-292	nfkbia	NFKB inhibito	ENSG00000100906
536	ENSXETG00000003944	-1.010630157	4.27E-231	rpl12	ribosomal pro	ENSG00000197958
537	ENSXETG00000023741	-1.010408777	5.34E-09	glt1d1	glycosyltransf	ENSG00000151948
538	ENSXETG00000015898	-1.010391394	0	rpl4	ribosomal pro	ENSG00000174444
539	ENSXETG00000029119	-1.009091895	0.002934025	xtr-mir-215		ENSG00000207590
540	ENSXETG00000029776	-1.00758872	0.019330332	SNORA71		ENSG00000225091,ENSG00
541	ENSXETG00000000132	-1.006763492	0	rpl28	ribosomal pro	ENSG00000108107
542	ENSXETG00000007902	-1.006754775	1.08E-38	thg1l	tRNA-histidin	ENSG00000113272
543	ENSXETG00000021446	-1.002707502	1.48E-155	sike1	suppressor of	ENSG00000052723
544	ENSXETG00000001829	-1.002267411	0	eif4b	eukaryotic tra	ENSG00000063046
545	ENSXETG00000022510	-1.00208111	4.55E-35	jade1	jade family PH	ENSG00000077684

534	ENSXETG00000010186	1.499726954	0	coro2a	coronin 2A	ENSG00000106789
535	ENSXETG00000013531	1.497933668	1.46E-93	nr2f6	nuclear recep	ENSG00000160113
536	ENSXETG00000003449	1.497639531	5.54E-05	kcnt1	potassium ch	ENSG00000107147
537	ENSXETG00000003253	1.494175774	0.000366722	pik3r3	phosphoinosi	ENSG00000117461,ENSG00000278139
538	ENSXETG00000003740	1.493979045	0	abcc2	ATP binding c	ENSG00000023839
539	ENSXETG00000004529	1.491429618	1.83E-05	tnfaip6	TNF alpha ind	ENSG00000123610
540	ENSXETG00000016345	1.489792362	6.49E-102	myh10	myosin, heav	ENSG00000133026
541	ENSXETG00000015370	1.489704586	4.43E-13	mybph	myosin bindir	ENSG00000221986,ENSG00000133055
542	ENSXETG00000001723	1.489701987	3.38E-05	XB-GENE-5810167	undefined	ENSG00000132703,ENSG00000132693
543	ENSXETG00000006660	1.487660264	1.78E-07	ccne2	cyclin E2	ENSG00000175305
544	ENSXETG00000020613	1.487386337	2.06E-05	ENSXETG00000020613		ENSG00000214946,ENSG00000278599,ENSG00000278299,ENSG00000273513,ENSG00000274512,ENSG00000274933,ENSG00000274808,ENSG00000129204,ENSG00000255104,ENSG00000260287,ENSG00000274419,ENSG00000274226,ENSG00000274611,ENSG00000189375,ENSG00000275954
545	ENSXETG00000021330	1.487277145	0.000110143	ENSXETG00000021330		ENSG00000196569
546	ENSXETG00000001069	1.486890819	5.99E-08	mak	male germ ce	ENSG00000111837
547	ENSXETG00000007079	1.485181536	9.37E-138	sesn3	sestrin 3	ENSG00000149212
548	ENSXETG00000007289	1.483707165	5.23E-85	glcci1	glucocorticoic	ENSG00000106415
549	ENSXETG00000011665	1.482895785	4.11E-07	NCAM1		ENSG00000149294
550	ENSXETG00000001781	1.482249829	7.24E-65	fbn3	fibrillin 3	ENSG00000142449
551	ENSXETG00000015620	1.479067669	8.87E-11	enkd1	enkurin doma	ENSG00000124074
552	ENSXETG00000016411	1.476706997	0.000265166	cfap73	cilia and flage	ENSG00000186710
553	ENSXETG00000031309	1.474079161	1.84E-18	rab31		ENSG00000168461
554	ENSXETG00000011389	1.474022741	2.96E-08	rad51ap1	RAD51 associ	ENSG00000111247
555	ENSXETG00000000170	1.473461853	2.24E-08	cenpn	centromere p	ENSG00000166451
556	ENSXETG00000027366	1.47213634	4.51E-08	snai1	snail family zi	ENSG00000124216
557	ENSXETG00000030726	1.471986991	4.40E-17	RCCD1		ENSG00000166965
558	ENSXETG00000011611	1.465751478	3.08E-08	afap1	actin filament	ENSG00000196526
559	ENSXETG00000002568	1.46377127	3.87E-07	numbl	numb homolo	ENSG00000105245
560	ENSXETG00000013086	1.46376487	0	mthfr	methylenetet	ENSG00000177000
561	ENSXETG00000007071	1.463155627	1.30E-05	bmp5	bone morpho	ENSG00000112175
562	ENSXETG00000002785	1.461954494	0.000478588	slc6a2	solute carrier	ENSG00000103546
563	ENSXETG00000003734	1.461701896	4.43E-93	myof	myoferlin	ENSG00000138119
564	ENSXETG00000003680	1.461072474	1.98E-51	mfap3	microfibril as	ENSG00000037749
565	ENSXETG00000003217	1.460675708	5.95E-07	mylk	myosin light c	ENSG00000065534
566	ENSXETG00000017294	1.459132044	3.92E-28	prkcb	protein kinase	ENSG00000166501
567	ENSXETG00000023717	1.458214089	7.30E-15	erg	v-ets avian er	ENSG00000157554
568	ENSXETG00000008680	1.454155537	1.35E-08	elavl4	ELAV like neu	ENSG00000162374
569	ENSXETG00000024519	1.451356154	6.61E-09	ENSXETG00000024519		ENSG00000242419
570	ENSXETG00000012043	1.449929273	3.67E-08	tril	TLR4 interact	ENSG00000255690
571	ENSXETG00000006186	1.449878664	4.20E-12	ahrr	aryl-hydrocar	ENSG00000063438
572	ENSXETG00000002669	1.44982979	1.68E-47	kdm7a	lysine (K)-spe	ENSG00000006459
573	ENSXETG00000024468	1.449706379	1.43E-73	mfap4	microfibril as	ENSG00000166482
574	ENSXETG00000005518	1.44921787	0.000532844	mtus2	microtubule a	ENSG00000132938
575	ENSXETG00000003669	1.448406308	2.98E-20	dock11	dedicator of c	ENSG00000147251
576	ENSXETG00000001968	1.445364482	2.99E-35	ENSXETG00000001968		ENSG00000106608
577	ENSXETG00000021272	1.444852948	2.97E-06	znf385a	zinc finger pro	ENSG00000161642
578	ENSXETG00000016204	1.444851589	8.18E-10	rbms1	RNA binding r	ENSG00000153250
579	ENSXETG00000006436	1.444242636	5.94E-11	ankle1	ankyrin repea	ENSG00000160117
580	ENSXETG00000005113	1.443511797	1.42E-18	ipmk	inositol polyp	ENSG00000151151
581	ENSXETG00000011186	1.442364666	5.98E-110	tuba1b	tubulin alpha	ENSG00000167552
582	ENSXETG00000002029	1.440105358	3.08E-30	rbm15	RNA binding r	ENSG00000162775
583	ENSXETG00000025372	1.436424392	0	myc	MYC proto-or	ENSG00000136997
584	ENSXETG00000028025	1.436158037	1.20E-08	srm	spermidine sy	ENSG00000116649
585	ENSXETG00000000690	1.435259247	0.000316142	mtmr7	myotubularin	ENSG00000003987
586	ENSXETG00000001625	1.434629552	0.000229596	slc9a9	solute carrier	ENSG00000181804
587	ENSXETG00000012277	1.431748646	9.06E-07	scube1	signal peptide	ENSG00000159307
588	ENSXETG00000010784	1.430673769	5.53E-191	COL5A2		ENSG00000204262
589	ENSXETG00000014947	1.427029734	0.000120482	tspan33	tetraspanin 3	ENSG00000158457
590	ENSXETG00000022691	1.425953478	0.000680369	dzip1l	DAZ interacti	ENSG00000158163
591	ENSXETG00000001116	1.425498821	2.59E-20	scml2	Scm polycom	ENSG00000102098
592	ENSXETG00000023867	1.424763495	0.000305113	naca	nascent polyp	ENSG00000136274
593	ENSXETG00000026476	1.424430782	3.76E-06	arl6	ADP ribosylat	ENSG00000113966
594	ENSXETG00000016542	1.423693497	1.17E-07	nudt1	nudix hydrola	ENSG00000106268
595	ENSXETG00000009151	1.420738508	9.42E-08	sept12	septin 12	ENSG00000140623
596	ENSXETG00000012397	1.419724738	1.31E-05	il12rb2	interleukin 12	ENSG00000081985,ENSG00000281152
597	ENSXETG00000006261	1.418857288	0.000761074	spaca9	sperm acroso	ENSG00000165698
598	ENSXETG00000008476	1.417984014	1.63E-40	wipf1	WAS/WASL in	ENSG00000115935
599	ENSXETG00000005357	1.416366282	9.99E-73	nt5dc3	5'-nucleotidas	ENSG00000111696
600	ENSXETG00000004060	1.415117801	6.38E-05	nkx3-2	NK3 homeob	ENSG00000109705
601	ENSXETG00000009201	1.413953037	2.80E-19	plcxd2	phosphatidyli	ENSG00000240891
602	ENSXETG00000016904	1.412645421	1.39E-27	hpgd	15-hydroxypr	ENSG00000164120
603	ENSXETG00000005417	1.411996014	1.17E-09	kiaa1324l	KIAA1324-like	ENSG00000164659
604	ENSXETG00000006632	1.408165836	7.40E-12	grhl2	grainyhead lik	ENSG00000083307
605	ENSXETG00000003986	1.407799886	1.92E-14	lmo2	LIM domain o	ENSG00000135363
606	ENSXETG00000014548	1.407708856	1.09E-09	cep170	centrosomal p	ENSG00000143702
607	ENSXETG00000017312	1.406214033	0.000813475	tgif2	TGFB induced	ENSG00000176679,ENSG00000118707,ENSG00000153779
608	ENSXETG00000019706	1.405917956	9.40E-15	mis18bp1	MIS18 bindin	ENSG00000129534
609	ENSXETG00000030204	1.404394363	2.46E-140	spock3		ENSG00000196104
610	ENSXETG00000002427	1.404288779	7.63E-67	ccdc80	coiled-coil do	ENSG00000091986
611	ENSXETG00000030188	1.402528571	0.000516837	DNAH10		ENSG00000197653
612	ENSXETG00000030147	1.402057123	8.03E-60	ENSXETG00000030147		ENSG00000165240
613	ENSXETG00000010536	1.401660437	1.07E-126	bmp1	bone morpho	ENSG00000168487
614	ENSXETG00000013334	1.401648467	9.98E-08	osbpl8	oxysterol bind	ENSG00000091039
615	ENSXETG00000027687	1.400410003	2.83E-16	spc24	SPC24, NDC80	ENSG00000161888
616	ENSXETG00000006304	1.400171226	0.000626913	tbx1	T-box 1	ENSG00000184058
617	ENSXETG00000004415	1.399577448	0.000903756	ENSXETG00000004415		ENSG00000170426,ENSG00000139547,ENSG00000025423
618	ENSXETG00000011814	1.396718613	2.04E-217	tf	transferrin	ENSG00000012223,ENSG00000091513
619	ENSXETG00000016815	1.395727723	3.93E-43	fcho2	FCH domain o	ENSG00000157107
620	ENSXETG00000021035	1.392499667	6.09E-21	pdgfra	platelet-deriv	ENSG00000134853
621	ENSXETG00000015995	1.391955906	6.94E-09	lgals1	lectin, galacto	ENSG00000100097
622	ENSXETG00000024635	1.390410162	8.86E-08	bmp6	bone morpho	ENSG00000153162
623	ENSXETG00000015152	1.388588346	0.000867623	ikzf3	IKAROS family	ENSG00000161405
624	ENSXETG00000019824	1.387163009	0.000338264	ttll11	tubulin tyrosi	ENSG00000175764
625	ENSXETG00000003528	1.386837406	0.000250775	hpdl	4-hydroxyphe	ENSG00000186603
626	ENSXETG00000024758	1.386712234	3.12E-19	odf2	outer dense f	ENSG00000136811
627	ENSXETG00000027011	1.384024324	5.98E-10	s1pr2	sphingosine-1	ENSG00000267534
628	ENSXETG00000002528	1.381738381	0.000912511	degs2	delta(4)-desat	ENSG00000168350
629	ENSXETG00000003926	1.38128337	0.000507736	nxpe1	neurexophilin	ENSG00000204361,ENSG00000137634,ENSG00000095110
630	ENSXETG00000014937	1.38114318	2.95E-16	slc11a1	solute carrier	ENSG00000018280
631	ENSXETG00000012500	1.380860391	4.72E-12	slc16a5	solute carrier	ENSG00000170190
632	ENSXETG00000010707	1.380611282	0	sparc	secreted prot	ENSG00000113140
633	ENSXETG00000003961	1.376651819	5.34E-114	entpd8	ectonucleosid	ENSG00000188833
634	ENSXETG00000019051	1.376449283	8.86E-157	klf9	Kruppel-like f	ENSG00000119138
635	ENSXETG00000007384	1.375779363	4.11E-11	spag6	sperm associa	ENSG00000077327
636	ENSXETG00000004298	1.374114207	4.54E-07	pde1b	phosphodiest	ENSG00000123360
637	ENSXETG00000007327	1.372755439	1.17E-06	nat6	N-acetyltrans	ENSG00000243477
638	ENSXETG00000009066	1.372384008	2.53E-05	kcnab3	potassium ch	ENSG00000170049
639	ENSXETG00000006497	1.372295286	0.000473599	XB-GENE-980117	Putative orth	ENSG00000114200
640	ENSXETG00000009233	1.371076662	0.000861098	ENSXETG00000009233		ENSG00000153976,ENSG00000125430
641	ENSXETG00000007569	1.370806326	2.95E-34	hapln3	hyaluronan a	ENSG00000140511
642	ENSXETG00000020288	1.368551273	1.71E-12	ntn3	netrin 3	ENSG00000162068
643	ENSXETG00000015816	1.361205929	1.92E-05	blvra	biliverdin red	ENSG00000106605
644	ENSXETG00000024399	1.361038681	3.56E-10	thra		ENSG00000126351
645	ENSXETG00000025239	1.360014997	4.77E-39	abhd1	abhydrolase c	ENSG00000143994
646	ENSXETG00000011734	1.358718779	0.000849603	nox4	NADPH oxida	ENSG00000086991
647	ENSXETG00000006627	1.355882557	0.001303226	cdh13	cadherin 13	ENSG00000140945
648	ENSXETG00000004373	1.354986868	0.000326034	tekt2	tektin 2 (testi	ENSG00000092850
649	ENSXETG00000025214	1.354892206	0	bnip3	BCL2/adenov	ENSG00000176171
650	ENSXETG00000013956	1.354877684	1.73E-14	mthfd1l	methylenetet	ENSG00000120254
651	ENSXETG00000017323	1.354855587	7.26E-109	tgm2	transglutamir	ENSG00000198959
652	ENSXETG00000012935	1.353829731	3.52E-40	mast3	microtubule a	ENSG00000099308
653	ENSXETG00000015061	1.353620663	5.87E-07	map6	microtubule a	ENSG00000171533
654	ENSXETG00000023334	1.353440763	8.20E-34	slc25a22	solute carrier	ENSG00000177542
655	ENSXETG00000009209	1.352994905	0.000435598	cldn11	claudin 11 (ol	ENSG00000013297
656	ENSXETG00000009595	1.352490185	1.63E-20	ska3	spindle and ki	ENSG00000165480
657	ENSXETG00000025913	1.352305288	0.000439797	lrrc69	leucine rich re	ENSG00000214954
658	ENSXETG00000013633	1.351633726	9.04E-62	rab30	RAB30, memb	ENSG00000137502
659	ENSXETG00000017925	1.351105332	2.08E-08	adamts8	ADAM metall	ENSG00000134917
660	ENSXETG00000004166	1.348416195	4.83E-30	sowaha	sosondowah a	ENSG00000198944
661	ENSXETG00000031224	1.348008976	4.76E-05	ENSXETG00000031224		ENSG00000187492
662	ENSXETG00000021786	1.347236918	0.001015241	ENSXETG00000021786		ENSG00000158764,ENSG00000179914
663	ENSXETG00000009913	1.34570258	1.31E-13	polq	polymerase (D	ENSG00000051341
664	ENSXETG00000010848	1.343432302	1.27E-29	fam63b	to MINDY lysi	ENSG00000128923
665	ENSXETG00000011756	1.343365712	0	ENSXETG00000011756	cytochrome P	ENSG00000160870,ENSG00000021461,ENSG00000106258,ENSG00000160868
666	ENSXETG00000003585	1.342897964	4.09E-06	rhoj	ras homolog f	ENSG00000126785
667	ENSXETG00000001245	1.342014636	5.97E-20	ncaph	non-SMC con	ENSG00000121152
668	ENSXETG00000024787	1.341638051	0.000972387	htr2c	5-hydroxytryp	ENSG00000147246
669	ENSXETG00000025709	1.341168661	0.001137376	tac1	tachykinin pre	ENSG00000006128
670	ENSXETG00000018075	1.341109381	1.35E-127	syncrip	synaptotagmi	ENSG00000135316
671	ENSXETG00000000793	1.339667841	1.44E-10	slc24a3	solute carrier	ENSG00000185052
672	ENSXETG00000019430	1.3373086	1.21E-05	lrrc32.1	leucine rich re	ENSG00000137507
673	ENSXETG00000010924	1.337108969	2.24E-32	slc44a4	solute carrier	ENSG00000204385
674	ENSXETG00000020984	1.335401404	2.15E-30	ppp1r3c.1	protein phosp	ENSG00000119938
675	ENSXETG00000010195	1.333856837	0.000163136	stkld1	serine/threon	ENSG00000198870
676	ENSXETG00000019919	1.332838261	3.30E-18	spdl1	spindle appar	ENSG00000040275
677	ENSXETG00000020659	1.332229519	2.55E-24	fgr	FGR proto-on	ENSG00000000938
678	ENSXETG00000012656	1.330541105	2.05E-05	vsig2	V-set and imr	ENSG00000019102
679	ENSXETG00000020303	1.330023081	0.001679491	zbtb7c	zinc finger an	ENSG00000184828
680	ENSXETG00000017270	1.329805112	1.93E-155	c3	complement	ENSG00000125730
681	ENSXETG00000003358	1.328359653	3.70E-05	stmn3	stathmin 3	ENSG00000197457
682	ENSXETG00000018741	1.327909924	6.97E-21	mastl	microtubule a	ENSG00000120539
683	ENSXETG00000007913	1.32687466	2.67E-15	spi1	Spi-1 proto-o	ENSG00000066336
684	ENSXETG00000013760	1.326035696	3.64E-08	ttl	tubulin tyrosi	ENSG00000114999
685	ENSXETG00000012236	1.32553352	1.25E-260	narf	nuclear prelar	ENSG00000141562
686	ENSXETG00000009846	1.324312977	3.07E-05	ENSXETG00000009846		ENSG00000106608
687	ENSXETG00000019232	1.3210017	4.87E-06	nek8	NIMA-related	ENSG00000160602
688	ENSXETG00000004542	1.320781168	2.29E-43	bambi	BMP and acti	ENSG00000095739
689	ENSXETG00000025052	1.319192974	0	krt19	keratin 19	ENSG00000171345
690	ENSXETG00000002964	1.315639563	0.001058007	proc	protein C, ina	ENSG00000115718
691	ENSXETG00000017151	1.31552013	5.53E-07	zfhx4	zinc finger ho	ENSG00000091656
692	ENSXETG00000011817	1.315512418	3.04E-206	slco2a1	solute carrier	ENSG00000174640
693	ENSXETG00000003402	1.315181874	0.000105134	ccdc103	coiled-coil do	ENSG00000167131,ENSG00000214447
694	ENSXETG00000011185	1.312617263	4.18E-83	tuba4a	tubulin alpha	ENSG00000123416
695	ENSXETG00000012229	1.311272317	0.001913362	uts2r	urotensin 2 re	ENSG00000181408
696	ENSXETG00000005230	1.311100327	8.22E-24	gpsm2	G-protein sigr	ENSG00000121957
697	ENSXETG00000024390	1.309824817	2.53E-115	rara	retinoic acid r	ENSG00000131759
698	ENSXETG00000018635	1.308608651	4.46E-18	plxna1	plexin A1	ENSG00000114554
699	ENSXETG00000020679	1.308256541	0.001229583	pitpnm3	PITPNM famil	ENSG00000091622
700	ENSXETG00000010949	1.307022277	0.001437962	nt5c1b	5'-nucleotidas	ENSG00000116981
701	ENSXETG00000022131	1.306793016	2.27E-09	chst2	carbohydrate	ENSG00000175040
702	ENSXETG00000023744	1.304290485	2.54E-15	ptp4a3	protein tyrosi	ENSG00000184489
703	ENSXETG00000009063	1.303173171	0.000105909	spon1	spondin 1, ex	ENSG00000262655
704	ENSXETG00000018027	1.302028698	2.15E-21	ift27		ENSG00000100360
705	ENSXETG00000002712	1.300557412	2.13E-14	soga1	suppressor of	ENSG00000149639
706	ENSXETG00000007254	1.298936617	0.001030226	kcnmb3	potassium ch	ENSG00000171121
707	ENSXETG00000012154	1.29889374	0.001481552	ENSXETG00000012154		ENSG00000226321
708	ENSXETG00000015861	1.298216487	2.89E-05	klhl4	kelch like fam	ENSG00000102271
709	ENSXETG00000003618	1.296364904	5.94E-08	atp2b4	ATPase, Ca++	ENSG00000157087
710	ENSXETG00000030878	1.295756709	0.00063431	NHLRC4		ENSG00000257108
711	ENSXETG00000002702	1.295601992	0.001919032	mmp24	matrix metall	ENSG00000125966
712	ENSXETG00000024642	1.295583587	0.000795079	fjx1	four jointed b	ENSG00000179431
713	ENSXETG00000004773	1.295309921	0.000129381	col9a2	collagen, type	ENSG00000049089
714	ENSXETG00000011174	1.295267656	1.04E-07	arf3	ADP ribosylat	ENSG00000134287,ENSG00000272822
715	ENSXETG00000024509	1.293710424	9.57E-14	slc25a23	solute carrier	ENSG00000181240,ENSG00000125648
716	ENSXETG00000002363	1.293478346	1.72E-11	vwa5a.2	von Willebran	ENSG00000110002
717	ENSXETG00000003154	1.29174967	1.30E-30	colec12	collectin subf	ENSG00000158270
718	ENSXETG00000003191	1.289529194	0.002357414	cdk5r1	cyclin-depend	ENSG00000176749
719	ENSXETG00000018061	1.287425501	2.28E-05	fam98b	family with se	ENSG00000171262
720	ENSXETG00000025680	1.287175828	0.001637286	lhfpl3	LHFPL tetrasp	ENSG00000187416
721	ENSXETG00000010716	1.286206169	2.43E-13	ckap4	cytoskeleton-	ENSG00000136026
722	ENSXETG00000021754	1.28503239	0.000188148	zbtb34	zinc finger an	ENSG00000177125
723	ENSXETG00000004680	1.283993475	2.05E-06	tigd5	tigger transpo	ENSG00000179886
724	ENSXETG00000013227	1.283919388	0.000254137	nkx6-1	NK6 homeob	ENSG00000163623
725	ENSXETG00000001938	1.282799921	0	fabp1	fatty acid bin	ENSG00000163586
726	ENSXETG00000002288	1.282134835	4.61E-34	fkbp10	FK506 binding	ENSG00000141756
727	ENSXETG00000002570	1.28203587	1.17E-52	notch3	notch 3	ENSG00000074181
728	ENSXETG00000006863	1.280603659	0.002009536	has2	hyaluronan sy	ENSG00000170961
729	ENSXETG00000030461	1.280437733	0.000923947	ENSXETG00000030461		ENSG00000101004
730	ENSXETG00000004409	1.280356632	0.000249573	rdh7.2	retinol dehyd	ENSG00000170426,ENSG00000139547,ENSG00000025423
731	ENSXETG00000010141	1.279542695	0.000597192	lrch2	leucine-rich re	ENSG00000130224
732	ENSXETG00000007844	1.278441086	0.002134392	frmd5	FERM domair	ENSG00000171877
733	ENSXETG00000013697	1.277505235	1.99E-159	stard6	StAR related l	ENSG00000174448
734	ENSXETG00000001835	1.27476766	3.57E-06	THEMIS2		ENSG00000130775
735	ENSXETG00000001207	1.271005791	2.22E-28	bri3bp	BRI3 binding p	ENSG00000184992
736	ENSXETG00000003020	1.269418289	4.66E-06	gpr55	G protein-cou	ENSG00000135898
737	ENSXETG00000015684	1.269111445	2.68E-06	ikzf1	IKAROS family	ENSG00000185811
738	ENSXETG00000014016	1.267029872	1.12E-119	lsp1	lymphocyte-s	ENSG00000130592
739	ENSXETG00000000190	1.26671119	0.000322711	tusc3	tumor suppre	ENSG00000104723
740	ENSXETG00000012101	1.266656668	1.34E-14	aplp1	amyloid beta	ENSG00000105290
741	ENSXETG00000001670	1.265979512	6.93E-35	pgm5	phosphogluco	ENSG00000154330
742	ENSXETG00000021136	1.262568246	0.00265645	cplx3	complexin 3	ENSG00000140506
743	ENSXETG00000004581	1.26195188	0.000740501	slc16a2	solute carrier	ENSG00000147100
744	ENSXETG00000009990	1.2615394	1.56E-183	mospd2	motile sperm	ENSG00000130150
745	ENSXETG00000020409	1.260835939	1.54E-44	kifc1	kinesin family	ENSG00000237649
746	ENSXETG00000004546	1.26062653	8.09E-17	mpp7	membrane pr	ENSG00000150054
747	ENSXETG00000014840	1.260380872	0.000462448	znf367	zinc finger pro	ENSG00000165244
748	ENSXETG00000008794	1.259686039	0.000127255	ENSXETG00000008794		ENSG00000127954
749	ENSXETG00000014394	1.258770332	1.32E-08	dtl	denticleless E	ENSG00000143476
750	ENSXETG00000016106	1.258113778	5.81E-05	caskin1	CASK interact	ENSG00000167971
751	ENSXETG00000016157	1.255879826	1.28E-05	znf219	zinc finger pro	ENSG00000165804
752	ENSXETG00000015052	1.254823478	0.00114857	ENSXETG00000015052		ENSG00000132182
753	ENSXETG00000015904	1.253141515	0.002970888	lctl	lactase like	ENSG00000188501
754	ENSXETG00000021000	1.250023658	1.67E-10	exog	endo/exonuc	ENSG00000157036
755	ENSXETG00000031338	1.248714329	0.003192502	cntn4		ENSG00000144619
756	ENSXETG00000016094	1.248286805	0.003198178	homer2	homer scaffo	ENSG00000103942
757	ENSXETG00000005250	1.248098923	5.00E-07	lck	LCK proto-onc	ENSG00000182866
758	ENSXETG00000001323	1.246302745	7.77E-08	tk1	thymidine kin	ENSG00000167900
759	ENSXETG00000015273	1.24603795	2.33E-06	XB-GENE-990170	Putative orth	ENSG00000173546
760	ENSXETG00000025687	1.245879235	0.002780419	ENSXETG00000025687		ENSG00000188486
761	ENSXETG00000024001	1.245337441	1.58E-21	prex1	phosphatidyli	ENSG00000124126
762	ENSXETG00000019549	1.245138197	0.002925839	foxj1	forkhead box	ENSG00000129654
763	ENSXETG00000011486	1.245106352	3.63E-149	col6a1	collagen, type	ENSG00000142156
764	ENSXETG00000023395	1.242605219	0.001636797	alb	albumin	ENSG00000163631,ENSG00000079557,ENSG00000081051
765	ENSXETG00000010609	1.241994647	0.003465361	FAM180A		ENSG00000189320
766	ENSXETG00000021376	1.241008694	0.000364495	mpped2	metallophosp	ENSG00000066382
767	ENSXETG00000026274	1.240696426	0.002354808	ENSXETG00000026274		ENSG00000180644
768	ENSXETG00000010324	1.239925613	2.01E-05	limk1	LIM domain k	ENSG00000106683
769	ENSXETG00000011566	1.239293295	4.31E-05	tfec	transcription	ENSG00000105967
770	ENSXETG00000005484	1.239247362	1.11E-43	emc3	ER membrane	ENSG00000125037
771	ENSXETG00000007684	1.238599928	1.83E-212	jmjd1c	jumonji doma	ENSG00000171988
772	ENSXETG00000010846	1.238317095	0.00337598	amy2b	amylase, alph	ENSG00000240038,ENSG00000187733,ENSG00000174876,ENSG00000243480,ENSG00000237763
773	ENSXETG00000023870	1.238068628	0.000191719	st8sia4	ST8 alpha-N-a	ENSG00000113532
774	ENSXETG00000016565	1.235395731	3.39E-05	islr2	immunoglobu	ENSG00000167178,ENSG00000129009
775	ENSXETG00000016084	1.235273572	3.36E-12	bnc1	basonuclin 1	ENSG00000169594
776	ENSXETG00000003127	1.235253918	5.09E-07	ikzf2	IKAROS family	ENSG00000030419
777	ENSXETG00000001861	1.235240481	4.08E-06	INHBA		ENSG00000122641
778	ENSXETG00000008431	1.231907893	2.49E-31	ltbp3	latent transfo	ENSG00000168056
779	ENSXETG00000003800	1.231619324	1.86E-06	ccnd1	cyclin D1	ENSG00000110092
780	ENSXETG00000010532	1.231403106	0	slc39a14	solute carrier	ENSG00000104635
781	ENSXETG00000001061	1.230943348	1.57E-84	fut9	fucosyltransfe	ENSG00000172461
782	ENSXETG00000017729	1.229582848	5.45E-06	ralyl	RALY RNA bin	ENSG00000184672
783	ENSXETG00000012514	1.228066792	2.87E-108	npl	N-acetylneura	ENSG00000135838
784	ENSXETG00000022545	1.228064933	0.000623283	ppp1r14c	protein phosp	ENSG00000198729
785	ENSXETG00000015374	1.227482303	0.000567945	nr0b1	nuclear recep	ENSG00000169297
786	ENSXETG00000012870	1.227377625	4.19E-14	wdr19	WD repeat do	ENSG00000157796
787	ENSXETG00000007336	1.226990684	4.45E-25	lama4	laminin subur	ENSG00000112769
788	ENSXETG00000012610	1.22644929	0.001996657	ENSXETG00000012610	Fc receptor-lil	ENSG00000163534,ENSG00000160856,ENSG00000198019,ENSG00000181036,ENSG00000179639,ENSG00000132185,ENSG00000163518,ENSG00000244682,ENSG00000072694,ENSG00000162746,ENSG00000143226,ENSG00000162747,ENSG00000150337,ENSG00000203747,ENSG00000143297,ENSG00000132704
789	ENSXETG00000012029	1.226148231	3.32E-06	cass4	Cas scaffoldin	ENSG00000087589
790	ENSXETG00000003825	1.225258386	0.001523948	nme5	NME/NM23 f	ENSG00000112981
791	ENSXETG00000012264	1.224919625	3.66E-08	pde2a	phosphodiest	ENSG00000186642
792	ENSXETG00000023058	1.224841729	1.05E-07	invs	inversin	ENSG00000119509
793	ENSXETG00000017737	1.223396026	3.60E-22	asap1	ArfGAP with S	ENSG00000153317
794	ENSXETG00000007773	1.223309995	4.65E-64	loxl2	lysyl oxidase l	ENSG00000134013
795	ENSXETG00000020318	1.222475905	0	col1a2	collagen type	ENSG00000164692
796	ENSXETG00000012825	1.220489774	9.90E-20	cbx4	chromobox 4	ENSG00000141582
797	ENSXETG00000003561	1.220254391	1.99E-20	irf8	interferon reg	ENSG00000140968
798	ENSXETG00000014877	1.219210466	0.002722653	tnnc2	troponin C2, f	ENSG00000101470
799	ENSXETG00000013427	1.218689615	3.14E-29	atp13a2	ATPase type 1	ENSG00000159363
800	ENSXETG00000004603	1.217213613	6.12E-16	pla2g7	phospholipas	ENSG00000146070
801	ENSXETG00000022286	1.216757587	2.99E-09	fam89a	family with se	ENSG00000182118

802	ENSXETG00000000547	1.213995155	7.89E-21	scamp1	secretory car	ENSG00000085365
803	ENSXETG00000005959	1.213897868	7.85E-12	traip	TRAF interact	ENSG00000183763
804	ENSXETG00000025040	1.21348804	0.00014773	celsr2	cadherin EGF	ENSG00000143126
805	ENSXETG00000018612	1.212983104	1.60E-05	c3orf70	chromosome	ENSG00000187068
806	ENSXETG00000020531	1.21281885	2.64E-06	zbtb26	zinc finger an	ENSG00000171448
807	ENSXETG00000011196	1.210933241	0.000358328	tmem59l	transmembra	ENSG00000105696
808	ENSXETG00000021721	1.210750801	5.39E-95	renbp	renin binding	ENSG00000102032
809	ENSXETG00000021972	1.21073432	5.36E-19	col27a1	collagen, type	ENSG00000196739
810	ENSXETG00000031073	1.210273836	0.004153108	KATNAL1		ENSG00000102781
811	ENSXETG00000012421	1.210205454	4.37E-07	pak3	p21 protein (	ENSG00000077264
812	ENSXETG00000006172	1.209341756	0.000449108	cfap206	cilia and flage	ENSG00000272514,ENSG00000213204
813	ENSXETG00000002377	1.208756916	0	ces3	carboxylester	ENSG00000172831
814	ENSXETG00000024614	1.208217238	7.96E-13	tbcel	tubulin foldin	ENSG00000154114
815	ENSXETG00000015845	1.206854508	1.57E-46	tpk1	thiamin pyrop	ENSG00000196511
816	ENSXETG00000017070	1.206838178	0.001269601	a2ml1	alpha-2-macr	ENSG00000166535
817	ENSXETG00000013340	1.20654972	9.04E-06	egfl6	EGF-like-dom	ENSG00000198759
818	ENSXETG00000007825	1.205947252	2.90E-20	glce	glucuronic ac	ENSG00000138604
819	ENSXETG00000014793	1.205289887	1.01E-29	rcc2	regulator of c	ENSG00000179051
820	ENSXETG00000019375	1.204968538	2.33E-35	rev1	REV1, DNA di	ENSG00000135945
821	ENSXETG00000004916	1.204588506	3.16E-06	pcgf3	polycomb gro	ENSG00000185619
822	ENSXETG00000020206	1.202930177	1.18E-63	timp2	TIMP metallo	ENSG00000035862
823	ENSXETG00000001252	1.202112507	0.004764317	kirrel2	kirre like nep	ENSG00000126259
824	ENSXETG00000026587	1.200590467	9.27E-07	ENSXETG00000026587		ENSG00000197816
825	ENSXETG00000021161	1.199758155	9.38E-08	ccbe1	collagen and	ENSG00000183287
826	ENSXETG00000024004	1.1977361	5.00E-05	tmem189	transmembra	ENSG00000240849,ENSG00000124208
827	ENSXETG00000001232	1.197151845	4.93E-29	dnmt3a	DNA (cytosine	ENSG00000119772
828	ENSXETG00000021148	1.197077209	5.27E-05	znf532	zinc finger pro	ENSG00000074657
829	ENSXETG00000010434	1.196046307	2.69E-06	fzd4	frizzled class	ENSG00000174804
830	ENSXETG00000015857	1.195005273	0.001671711	mtss1l	metastasis su	ENSG00000132613
831	ENSXETG00000024488	1.193791626	0.005123902	lexm	lymphocyte e	ENSG00000162398
832	ENSXETG00000007863	1.193109409	8.92E-09	stmn2	stathmin 2	ENSG00000104435
833	ENSXETG00000012751	1.192055107	1.19E-170	amn	amnion assoc	ENSG00000166126
834	ENSXETG00000008299	1.192018957	0.002909749	dnah2	dynein, axone	ENSG00000183914
835	ENSXETG00000016868	1.191738881	0.001336445	kctd15	potassium ch	ENSG00000153885
836	ENSXETG00000011082	1.190820404	2.09E-07	tmed8	transmembra	ENSG00000100580
837	ENSXETG00000023302	1.190315378	3.33E-37	cnksr3	CNKSR family	ENSG00000074706,ENSG00000153721
838	ENSXETG00000001078	1.190078012	8.15E-118	adprh	ADP-ribosylar	ENSG00000144843
839	ENSXETG00000003829	1.188649916	5.17E-07	adamts2	ADAM metall	ENSG00000087116
840	ENSXETG00000010280	1.188062725	1.14E-22	pik3c3	phosphatidyli	ENSG00000078142
841	ENSXETG00000015440	1.187077301	0.001495187	edn1	endothelin 1	ENSG00000078401
842	ENSXETG00000022533	1.185031836	4.34E-06	intu	inturned plan	ENSG00000164066
843	ENSXETG00000016627	1.183329107	5.06E-13	EML5		ENSG00000165521
844	ENSXETG00000006224	1.182418019	8.98E-05	slc26a10	solute carrier	ENSG00000135502
845	ENSXETG00000019965	1.179915831	0.002669285	kcnq1	potassium ch	ENSG00000053918
846	ENSXETG00000008268	1.179568584	6.41E-51	mboat2	membrane bo	ENSG00000143797
847	ENSXETG00000012892	1.178934018	4.00E-82	ptafr	platelet activ	ENSG00000169403
848	ENSXETG00000005328	1.178525362	1.33E-12	tanc2	tetratricopep	ENSG00000170921
849	ENSXETG00000019911	1.178481174	1.86E-79	slc4a7	solute carrier	ENSG00000033867
850	ENSXETG00000004369	1.176788986	0.000279935	rad54l	RAD54 like	ENSG00000085999
851	ENSXETG00000003037	1.175589125	0.000530695	gpc1	glypican 1	ENSG00000063660
852	ENSXETG00000009494	1.175090589	0.000346189	phc2	polyhomeotic	ENSG00000134686
853	ENSXETG00000011399	1.173557362	6.31E-15	sh3pxd2a	SH3 and PX d	ENSG00000107957
854	ENSXETG00000027677	1.171905588	6.55E-25	aldoc	aldolase, fruc	ENSG00000109107
855	ENSXETG00000007214	1.171062876	0.005429189	hs3st6	heparan sulfa	ENSG00000162040
856	ENSXETG00000004299	1.170335204	7.56E-19	nckap1l	NCK-associate	ENSG00000123338
857	ENSXETG00000006175	1.170157687	8.23E-07	gjc2	gap junction	ENSG00000198835
858	ENSXETG00000001119	1.169823454	0.006087843	ppm1e	protein phosp	ENSG00000175175
859	ENSXETG00000023495	1.169109262	1.03E-16	rap2a	RAP2A, mem	ENSG00000125249
860	ENSXETG00000008234	1.168633893	0.003179247	mag	myelin associ	ENSG00000105695
861	ENSXETG00000027273	1.168403775	2.15E-33	XB-GENE-5761426	MGC107876	ENSG00000132703,ENSG00000132693
862	ENSXETG00000016438	1.168228613	8.40E-16	jak3	Janus kinase	ENSG00000105639
863	ENSXETG00000031018	1.168064961	1.39E-91	pitpna		ENSG00000174238
864	ENSXETG00000000244	1.168043073	0.001818621	brinp1	bone morpho	ENSG00000078725
865	ENSXETG00000010327	1.167781554	4.29E-06	nme4	NME/NM23 n	ENSG00000103202
866	ENSXETG00000024529	1.166799382	9.29E-96	cyp7b1	cytochrome P	ENSG00000172817
867	ENSXETG00000017772	1.166005255	5.73E-133	mfge8	milk fat globu	ENSG00000140545
868	ENSXETG00000024773	1.165439531	2.96E-37	apex1	APEX nucleas	ENSG00000100823
869	ENSXETG00000014500	1.164905836	1.35E-05	micu3	mitochondria	ENSG00000155970
870	ENSXETG00000022940	1.164557458	0.000602928	ssbp4	single strande	ENSG00000130511
871	ENSXETG00000016343	1.16431532	4.55E-11	stil	STIL, centriola	ENSG00000123473
872	ENSXETG00000015989	1.164295258	1.17E-19	frem2	FRAS1 related	ENSG00000150893
873	ENSXETG00000013759	1.163934584	0.00512448	drc7	dynein regula	ENSG00000159625
874	ENSXETG00000017731	1.163904216	1.27E-51	pex11a	peroxisomal	ENSG00000166821
875	ENSXETG00000024932	1.163568187	0.00563583	ENSXETG00000024932		ENSG00000211592,ENSG00000241351,ENSG00000240671
876	ENSXETG00000019266	1.163414611	1.47E-07	bend3	BEN domain	ENSG00000178409
877	ENSXETG00000014423	1.162688709	3.34E-19	stk10	serine/threon	ENSG00000072786
878	ENSXETG00000000050	1.162042684	5.08E-06	mapkbp1	mitogen-activ	ENSG00000137802
879	ENSXETG00000000702	1.161843132	0.002523407	ttc23l	tetratricopep	ENSG00000205838
880	ENSXETG00000009200	1.161828985	3.99E-67	ddx58	DEXD/H-box	ENSG00000107201
881	ENSXETG00000005960	1.161707783	2.58E-16	fam212a	family with se	ENSG00000185614
882	ENSXETG00000019108	1.160651101	0.002461214	ckm	creatine kinas	ENSG00000104879
883	ENSXETG00000012860	1.160618469	0.005073748	lhfpl1	LHFPL tetrasp	ENSG00000182508
884	ENSXETG00000016119	1.159480562	0.001991222	pcdha13	protocadheri	ENSG00000240184
885	ENSXETG00000020598	1.158976231	0.001419483	dupd1	dual specificit	ENSG00000188716
886	ENSXETG00000031203	1.157843652	2.20E-37	MFSD1		ENSG00000118855
887	ENSXETG00000014413	1.156778693	1.70E-10	chpf2	chondroitin p	ENSG00000033100
888	ENSXETG00000002904	1.156542527	2.39E-05	chd5	chromodoma	ENSG00000116254
889	ENSXETG00000027500	1.156527616	1.50E-21	tmem237	transmembra	ENSG00000155755
890	ENSXETG00000012292	1.155453964	2.28E-05	ENSXETG00000012292		ENSG00000106608
891	ENSXETG00000031036	1.154873767	0.006413442	ENSXETG00000031036		ENSG00000090382
892	ENSXETG00000009117	1.154736843	1.74E-47	bend7	BEN domain	ENSG00000165626
893	ENSXETG00000010194	1.154250337	2.29E-07	pih1d2	PIH1 domain	ENSG00000150773
894	ENSXETG00000012260	1.153312301	7.51E-257	tiparp	TCDD inducib	ENSG00000163659
895	ENSXETG00000017780	1.152053809	0.000103375	fez1	fasciculation	ENSG00000149557
896	ENSXETG00000002059	1.151916281	5.02E-19	mcm2	minichromos	ENSG00000073111
897	ENSXETG00000024628	1.151782525	0	hbg2	hemoglobin s	ENSG00000213934,ENSG00000213931,ENSG00000196565
898	ENSXETG00000022859	1.151029726	1.05E-06	lrrc8e	leucine rich re	ENSG00000171017
899	ENSXETG00000003156	1.148414914	8.96E-11	tyms	thymidylate s	ENSG00000176890
900	ENSXETG00000000994	1.148106114	1.28E-23	ENSXETG00000000994		ENSG00000138688
901	ENSXETG00000004479	1.146811285	1.09E-11	zbtb33	zinc finger an	ENSG00000177485
902	ENSXETG00000013777	1.146752956	0.005199427	ENSXETG00000013777		ENSG00000188486
903	ENSXETG00000007078	1.146748891	1.10E-18	endod1	endonuclease	ENSG00000149218
904	ENSXETG00000008651	1.146500698	0.002012806	ttll7	tubulin tyrosi	ENSG00000137941
905	ENSXETG00000016967	1.145795402	3.37E-12	ltbp4	latent transfo	ENSG00000090006
906	ENSXETG00000015636	1.145738283	7.59E-149	kdm6b	lysine (K)-spe	ENSG00000132510
907	ENSXETG00000000775	1.145249469	9.75E-09	clstn1	calsyntenin 1	ENSG00000171603
908	ENSXETG00000022013	1.145183299	0.000449849	efcab1	EF-hand calci	ENSG00000034239
909	ENSXETG00000030433	1.144071631	3.46E-09	proser2		ENSG00000148426
910	ENSXETG00000008630	1.143722008	0.007576992	wdr63	WD repeat do	ENSG00000162643
911	ENSXETG00000011540	1.14332257	2.76E-18	tmem43	transmembra	ENSG00000170876,ENSG00000268279
912	ENSXETG00000012090	1.142940769	2.05E-31	tet3	tet methylcyt	ENSG00000187605
913	ENSXETG00000017722	1.141739808	1.51E-08	otud7a	OTU deubiqu	ENSG00000169918
914	ENSXETG00000014194	1.141695297	4.47E-50	nav2	neuron navig	ENSG00000166833
915	ENSXETG00000006733	1.141247798	9.71E-05	n4bp3	NEDD4 bindir	ENSG00000145911
916	ENSXETG00000014072	1.141143756	6.45E-15	itga4	integrin subu	ENSG00000115232
917	ENSXETG00000016079	1.140457671	5.93E-18	agtr1	angiotensin II	ENSG00000144891
918	ENSXETG00000025681	1.140162386	1.10E-11	reln	reelin	ENSG00000189056
919	ENSXETG00000025391	1.139257682	0.004430952	hist1h2ad	histone cluste	ENSG00000188486
920	ENSXETG00000012724	1.138726533	0.003294017	col11a2p1	collagen type	ENSG00000204248
921	ENSXETG00000018919	1.138341568	8.48E-74	cnn3	calponin 3, ac	ENSG00000117519
922	ENSXETG00000011188	1.137613737	1.32E-15	prph	peripherin	ENSG00000135406
923	ENSXETG00000021098	1.136535523	0	etnppl	ethanolamine	ENSG00000164089
924	ENSXETG00000016721	1.135070706	1.92E-10	lyl1	lymphoblastic	ENSG00000104903
925	ENSXETG00000027613	1.133650118	2.59E-177	ell3	elongation fa	ENSG00000128886
926	ENSXETG00000013196	1.133417392	0.000147162	lix1	limb and CNS	ENSG00000145721
927	ENSXETG00000027208	1.132636632	1.94E-24	gbp6	guanylate bin	ENSG00000117226,ENSG00000162645,ENSG00000213512,ENSG00000183347,ENSG00000162654,ENSG00000154451,ENSG00000117228
928	ENSXETG00000013702	1.131480724	2.64E-77	mical2	microtubule a	ENSG00000133816
929	ENSXETG00000003617	1.130652261	4.45E-19	fancd2	Fanconi anem	ENSG00000144554
930	ENSXETG00000027168	1.130316076	0.008368961	fam124a	family with se	ENSG00000150510
931	ENSXETG00000002112	1.129696985	0.003612926	igf1r	insulin like gr	ENSG00000140443
932	ENSXETG00000022288	1.129426611	3.34E-05	c1orf198	chromosome	ENSG00000119280
933	ENSXETG00000009704	1.128065163	3.33E-06	tnfrsf19	tumor necros	ENSG00000127863
934	ENSXETG00000012416	1.127653123	0.004407777	hs3st2	heparan sulfa	ENSG00000122254
935	ENSXETG00000015347	1.127291167	0.005662585	tgfb2	transforming	ENSG00000092969
936	ENSXETG00000003028	1.12647621	0.000828363	xrra1	X-ray radiatio	ENSG00000166435
937	ENSXETG00000015719	1.125388678	5.05E-05	odf3	outer dense f	ENSG00000177989,ENSG00000177947
938	ENSXETG00000026426	1.124842685	0.001947656	fn3k	fructosamine	ENSG00000167363
939	ENSXETG00000021270	1.124659265	0.001600032	fer	fer (fps/fes re	ENSG00000151422
940	ENSXETG00000021159	1.124197562	7.28E-164	lman1	lectin, manno	ENSG00000074695
941	ENSXETG00000000524	1.123423933	0.000592553	ankrd45	ankyrin repea	ENSG00000183831
942	ENSXETG00000007574	1.123185072	3.65E-90	cldn7	claudin 7	ENSG00000181885
943	ENSXETG00000005528	1.121549356	3.41E-41	nde1	nudE neurode	ENSG00000072864
944	ENSXETG00000002721	1.120872309	1.09E-251	slc30a10	solute carrier	ENSG00000196660
945	ENSXETG00000009257	1.120793241	3.61E-33	bmt2	base methylt	ENSG00000164603
946	ENSXETG00000012621	1.119734731	0.005336276	galr2	galanin recep	ENSG00000182687
947	ENSXETG00000010439	1.119266692	2.18E-12	hikeshi	Hikeshi, heat	ENSG00000149196
948	ENSXETG00000015599	1.118646023	1.36E-33	sugct	succinyl-CoA:	ENSG00000175600
949	ENSXETG00000004516	1.116053057	1.04E-07	ccdc88a	coiled-coil do	ENSG00000115355
950	ENSXETG00000018010	1.115926894	0.008387313	insrr	insulin recept	ENSG00000027644
951	ENSXETG00000000117	1.11554153	1.57E-46	extl3	exostosin like	ENSG00000012232
952	ENSXETG00000015819	1.115204289	0.001506697	tc2n	tandem C2 do	ENSG00000165929
953	ENSXETG00000022388	1.115047577	3.50E-104	me2	malic enzyme	ENSG00000082212
954	ENSXETG00000000796	1.115039073	1.59E-06	mms22l	MMS22 like,	ENSG00000146263
955	ENSXETG00000026678	1.114716261	0.009429821	ENSXETG00000026678		ENSG00000275713,ENSG00000203814,ENSG00000274290,ENSG00000197903,ENSG00000184678,ENSG00000196890,ENSG00000234289,ENSG00000276410,ENSG00000273703,ENSG00000277224,ENSG00000185130,ENSG00000274641,ENSG00000273802,ENSG00000180596,ENSG00000233822,ENSG00000158373,ENSG00000124635,ENSG00000278588
956	ENSXETG00000022989	1.114276036	8.29E-21	dr1	down-regulat	ENSG00000117505
957	ENSXETG00000019661	1.114092775	1.01E-05	abcc1	ATP binding c	ENSG00000103222
958	ENSXETG00000007104	1.11390769	3.59E-13	sdc3	syndecan 3	ENSG00000162512
959	ENSXETG00000030880	1.11197784	0.000471076	CD247		ENSG00000198821
960	ENSXETG00000016802	1.111431947	9.66E-11	nkx6-3	NK6 homeob	ENSG00000165066
961	ENSXETG00000023927	1.111412698	3.63E-13	ENSXETG00000023927		ENSG00000180035
962	ENSXETG00000003160	1.111398126	7.01E-06	dbp	D site of albu	ENSG00000105516
963	ENSXETG00000013500	1.111293484	1.51E-05	f2rl3	F2R like thror	ENSG00000127533
964	ENSXETG00000011490	1.111286085	2.03E-204	col6a2	collagen, type	ENSG00000142173
965	ENSXETG00000030526	1.111231807	0.009224523	tsga10		ENSG00000135951
966	ENSXETG00000030792	1.110467472	0.009505758	SV2C		ENSG00000122012
967	ENSXETG00000022285	1.109074828	0.000103033	vit	vitrin	ENSG00000205221
968	ENSXETG00000022236	1.108757688	6.92E-22	tspan18	tetraspanin 1	ENSG00000157570
969	ENSXETG00000018502	1.107646315	3.70E-05	crhr2	corticotropin	ENSG00000106113
970	ENSXETG00000031173	1.107304986	1.47E-09	MORC1		ENSG00000114487
971	ENSXETG00000004215	1.106939937	2.55E-57	bcr	BCR, RhoGEF	ENSG00000186716
972	ENSXETG00000001029	1.106237414	7.69E-12	runx3	runt related t	ENSG00000020633
973	ENSXETG00000012587	1.105086417	4.79E-10	aoc2	amine oxidas	ENSG00000131471,ENSG00000131480
974	ENSXETG00000015894	1.104985583	4.33E-09	zwilch	zwilch kineto	ENSG00000174442
975	ENSXETG00000014529	1.104825783	5.64E-14	pim3	Pim-3 proto-o	ENSG00000198355
976	ENSXETG00000010631	1.103576089	0.004293889	themis	thymocyte se	ENSG00000172673
977	ENSXETG00000027069	1.102662944	4.66E-08	tmem47	transmembra	ENSG00000147027
978	ENSXETG00000008674	1.101779611	7.64E-08	prdm1	PR domain 1	ENSG00000057657
979	ENSXETG00000005150	1.101431569	0.002777503	nyap2	neuronal tyro	ENSG00000144460
980	ENSXETG00000026893	1.100563393	0.0098155	apcdd1	adenomatosis	ENSG00000154856
981	ENSXETG00000023615	1.100516425	1.52E-06	fndc3b	fibronectin ty	ENSG00000075420
982	ENSXETG00000027887	1.099941556	1.24E-21	trib2	tribbles pseu	ENSG00000071575
983	ENSXETG00000021716	1.0994565	0.009273916	galnt13	polypeptide N	ENSG00000144278
984	ENSXETG00000012541	1.09921953	0.003364374	dnajb13	DnaJ heat sho	ENSG00000187726
985	ENSXETG00000017566	1.099067657	6.61E-31	smarca5	SWI/SNF rela	ENSG00000153147
986	ENSXETG00000026343	1.098231245	4.00E-06	gap43	growth assoc	ENSG00000172020
987	ENSXETG00000013134	1.097476527	0.000985473	miga1	mitoguardin 1	ENSG00000180488
988	ENSXETG00000012850	1.097347565	1.47E-117	lpp	LIM domain c	ENSG00000145012
989	ENSXETG00000001412	1.09690591	5.12E-34	gbp4	guanylate bin	ENSG00000117226,ENSG00000162645,ENSG00000213512,ENSG00000183347,ENSG00000162654,ENSG00000154451,ENSG00000117228
990	ENSXETG00000002371	1.096443658	0.001062052	kif27	kinesin family	ENSG00000165115
991	ENSXETG00000007633	1.095509427	0.006990021	slco3a1	solute carrier	ENSG00000176463
992	ENSXETG00000022070	1.095490289	2.68E-12	ehd3	EH domain co	ENSG00000013016
993	ENSXETG00000021787	1.094959176	2.21E-06	rbms2	RNA binding r	ENSG00000076067
994	ENSXETG00000018493	1.094243114	0.010462386	gucy1a2	guanylate cyc	ENSG00000152402
995	ENSXETG00000011663	1.09418581	0.005911945	ankk1	ankyrin repea	ENSG00000170209
996	ENSXETG00000001586	1.093913096	0.000219643	XB-GENE-959703	Putative orth	ENSG00000154217
997	ENSXETG00000019373	1.093761142	0.002348715	htr4	5-hydroxytryp	ENSG00000164270
998	ENSXETG00000020336	1.093720014	0.009714858	prom1	prominin 1	ENSG00000007062
999	ENSXETG00000004564	1.093361265	6.22E-09	fut1	fucosyltransfe	ENSG00000176920,ENSG00000174951
1000	ENSXETG00000030585	1.092951339	0.010918945	CD79A		ENSG00000105369
1001	ENSXETG00000007804	1.092414727	1.42E-14	smad3	SMAD family	ENSG00000166949
1002	ENSXETG00000008812	1.092390791	2.70E-138	fzd8	frizzled class	ENSG00000177283
1003	ENSXETG00000003952	1.091162687	1.24E-19	nrarp	NOTCH regula	ENSG00000198435
1004	ENSXETG00000013020	1.090718601	7.94E-05	wdpcp	WD repeat co	ENSG00000143951
1005	ENSXETG00000013207	1.090691945	4.89E-42	gba2	glucosidase, b	ENSG00000070610
1006	ENSXETG00000003579	1.0901818	1.02E-95	hsd17b2	hydroxystero	ENSG00000086696
1007	ENSXETG00000008665	1.089997116	1.81E-09	dnase1l3	deoxyribonuc	ENSG00000163687
1008	ENSXETG00000010898	1.089765479	3.53E-229	fn1	fibronectin 1	ENSG00000115414
1009	ENSXETG00000001999	1.088830591	1.91E-06	ss18l1	synovial sarco	ENSG00000184402
1010	ENSXETG00000023649	1.088828082	7.88E-11	dck.1	deoxycytidine	ENSG00000156136
1011	ENSXETG00000012096	1.088373652	1.61E-11	pex10	peroxisomal	ENSG00000157911
1012	ENSXETG00000013193	1.088279876	0.011335436	slc35a3.1	solute carrier	ENSG00000117620
1013	ENSXETG00000022616	1.087055694	4.12E-06	fam184a	family with se	ENSG00000111879
1014	ENSXETG00000000421	1.086700534	6.69E-35	smpd2	sphingomyeli	ENSG00000135587
1015	ENSXETG00000005842	1.08665512	1.53E-77	vangl2	VANGL plana	ENSG00000162738
1016	ENSXETG00000008779	1.086441882	5.40E-43	fbn1	fibrillin 1	ENSG00000166147
1017	ENSXETG00000004180	1.084277729	1.39E-25	itga1	integrin subu	ENSG00000213949
1018	ENSXETG00000014356	1.083666387	7.50E-36	tmem206	transmembra	ENSG00000065600
1019	ENSXETG00000008592	1.082797625	0.004860328	otc	ornithine carb	ENSG00000036473
1020	ENSXETG00000022367	1.08202737	1.80E-46	mex3c	mex-3 RNA bi	ENSG00000176624
1021	ENSXETG00000025740	1.08164156	0.006913867	slc25a4	solute carrier	ENSG00000151729
1022	ENSXETG00000014890	1.08129979	6.89E-13	cxcr4	C-X-C motif c	ENSG00000121966
1023	ENSXETG00000010839	1.079839526	8.37E-10	COL11A1		ENSG00000060718
1024	ENSXETG00000010095	1.07888282	1.51E-16	nrp2	neuropilin 2	ENSG00000118257
1025	ENSXETG00000004390	1.077737295	0.011779024	nfasc	neurofascin	ENSG00000163531
1026	ENSXETG00000006147	1.07726384	0.000401638	spock2	sparc/osteon	ENSG00000107742
1027	ENSXETG00000013442	1.07618286	6.48E-08	ccdc30	coiled-coil do	ENSG00000186409
1028	ENSXETG00000023449	1.075973226	7.01E-05	rnf208	ring finger pro	ENSG00000212864
1029	ENSXETG00000027485	1.074475452	0.009602319	tmem74	transmembra	ENSG00000164841
1030	ENSXETG00000002336	1.073819175	3.31E-16	btbd3	BTB (POZ) do	ENSG00000132640
1031	ENSXETG00000005411	1.073620931	2.42E-08	meig1	meiosis/sperm	ENSG00000197889
1032	ENSXETG00000007819	1.073248907	0.008713916	nox5	NADPH oxida	ENSG00000255346
1033	ENSXETG00000023120	1.072659428	0.008205755	kcnk2	potassium ch	ENSG00000082482
1034	ENSXETG00000012788	1.072242058	1.09E-21	pygm	phosphorylas	ENSG00000100994
1035	ENSXETG00000007233	1.07130173	4.91E-12	nsd1	nuclear recep	ENSG00000165671
1036	ENSXETG00000005251	1.069652406	1.54E-147	tor2a	torsin family	ENSG00000160404
1037	ENSXETG00000021811	1.069503626	1.77E-06	map3k9	mitogen-activ	ENSG00000006432
1038	ENSXETG00000021132	1.06901394	3.58E-73	phkg2	phosphorylas	ENSG00000156873
1039	ENSXETG00000022651	1.067570336	4.37E-06	foxn2	forkhead box	ENSG00000170802
1040	ENSXETG00000006883	1.067436694	9.45E-15	cacfd1	calcium chan	ENSG00000160325
1041	ENSXETG00000000997	1.065126665	7.36E-19	kiaa1109	KIAA1109	ENSG00000138688
1042	ENSXETG00000014693	1.065067438	0.005341515	galr1	galanin recep	ENSG00000166573
1043	ENSXETG00000013646	1.063902968	4.14E-06	ENSXETG00000013646		ENSG00000105483
1044	ENSXETG00000011233	1.063469613	4.85E-05	cmtm4	CKLF-like MA	ENSG00000183723
1045	ENSXETG00000012591	1.062868092	2.02E-08	psme3	proteasome a	ENSG00000131467
1046	ENSXETG00000024889	1.062444467	0.005037196	foxe1	forkhead box	ENSG00000178919
1047	ENSXETG00000011649	1.061465091	2.19E-09	cdkn2d	cyclin-depend	ENSG00000129355
1048	ENSXETG00000002151	1.06090038	1.14E-06	aqp3	aquaporin 3 (	ENSG00000165272
1049	ENSXETG00000023400	1.060484963	2.82E-59	ENSXETG00000023400		ENSG00000173193,ENSG00000173200
1050	ENSXETG00000019577	1.060123825	0.00241958	tekt3	tektin 3	ENSG00000125409
1051	ENSXETG00000010956	1.058498853	2.27E-12	mycl	MYCL proto-o	ENSG00000116990
1052	ENSXETG00000026167	1.058124762	1.18E-12	epas1	endothelial P	ENSG00000116016
1053	ENSXETG00000002582	1.05807019	0.000525362	gpr45	G protein-cou	ENSG00000135973
1054	ENSXETG00000031041	1.057195832	0.001738577	ENSXETG00000031041		ENSG00000249115
1055	ENSXETG00000018449	1.057133961	1.42E-12	gatsl2	cytosolic argi	ENSG00000239521,ENSG00000274070
1056	ENSXETG00000013741	1.054414173	0.001668813	gins3	GINS complex	ENSG00000181938
1057	ENSXETG00000018162	1.054366264	0.000242398	fam151b	family with se	ENSG00000152380
1058	ENSXETG00000019757	1.054280092	2.30E-07	masp1	mannan-bind	ENSG00000127241
1059	ENSXETG00000019032	1.05357776	0.00850511	exo1	exonuclease 1	ENSG00000174371
1060	ENSXETG00000010393	1.053576369	1.82E-05	ENSXETG00000010393		ENSG00000117983
1061	ENSXETG00000030625	1.053412754	0.011731931	sept4	septin 4	ENSG00000108387
1062	ENSXETG00000021989	1.052975508	9.40E-12	st6galnac4	ST6 (alpha-N-	ENSG00000136840
1063	ENSXETG00000014202	1.052745161	1.57E-38	ENSXETG00000014202		ENSG00000137177
1064	ENSXETG00000011870	1.052527456	4.72E-174	tmem45a	transmembra	ENSG00000181458
1065	ENSXETG00000018823	1.051878583	1.15E-13	stk36	serine/threon	ENSG00000163482
1066	ENSXETG00000005387	1.051830234	3.06E-93	pm20d2	peptidase M2	ENSG00000146281
1067	ENSXETG00000006917	1.051059096	0.012904256	myl1	myosin light c	ENSG00000168530
1068	ENSXETG00000000802	1.051017357	5.99E-10	ror2	receptor tyro	ENSG00000169071
1069	ENSXETG00000021073	1.050694688	0.014231851	bend4	BEN domain	ENSG00000188848

1070	ENSXETG00000016741	1.050486229	0.014164753	elavl3	ELAV like neu	ENSG00000196361
1071	ENSXETG00000025068	1.050232554	1.33E-18	coro1a	coronin, actin	ENSG00000102879
1072	ENSXETG00000023687	1.050058879	6.02E-06	srgap2	SLIT-ROBO Rh	ENSG00000266028,ENSG00000171943,ENSG00000196369
1073	ENSXETG00000012588	1.049780361	2.62E-97	aoc3	amine oxidas	ENSG00000131471,ENSG00000131480
1074	ENSXETG00000022169	1.049283932	4.76E-05	cenps	centromere p	ENSG00000251503,ENSG00000175279
1075	ENSXETG00000009227	1.049228777	8.79E-05	khdrbs3	KH domain co	ENSG00000131773
1076	ENSXETG00000019437	1.048790798	0.01030636	ccdc39	coiled-coil do	ENSG00000145075
1077	ENSXETG00000008256	1.048425522	3.47E-12	per2	period circadi	ENSG00000132326
1078	ENSXETG00000015094	1.048294999	5.03E-08	gbp3	guanylate bin	ENSG00000117226,ENSG00000162645,ENSG00000213512,ENSG00000183347,ENSG00000162654,ENSG00000154451,ENSG00000117228
1079	ENSXETG00000025130	1.048207227	0.000295676	fgf10	fibroblast gro	ENSG00000070193
1080	ENSXETG00000017395	1.048196296	1.08E-71	spag7	sperm associa	ENSG00000091640
1081	ENSXETG00000019005	1.04668785	0.008446555	ENSXETG00000019005		ENSG00000163071
1082	ENSXETG00000015231	1.046288462	0.000336224	sulf1	sulfatase 1	ENSG00000137573
1083	ENSXETG00000009661	1.046037893	1.32E-05	agap2	ArfGAP with G	ENSG00000135439
1084	ENSXETG00000030321	1.045620789	0.014550855	ENSXETG00000030321		ENSG00000125730
1085	ENSXETG00000004804	1.045170343	0.001351094	fam84b	family with se	ENSG00000168672
1086	ENSXETG00000013584	1.044738346	7.69E-06	ENSXETG00000013584		ENSG00000105366,ENSG00000142512,ENSG00000105501,ENSG00000105383,ENSG00000254415,ENSG00000105492,ENSG00000268500,ENSG00000161640,ENSG00000168995,ENSG00000254521,ENSG00000129450
1087	ENSXETG00000011382	1.044630771	0.000469627	kcnmb4	potassium ch	ENSG00000135643
1088	ENSXETG00000009839	1.042722562	0.005083286	atp10d	ATPase, class	ENSG00000145246
1089	ENSXETG00000019731	1.041721216	0.01423673	slc13a5	solute carrier	ENSG00000141485
1090	ENSXETG00000015503	1.040864045	1.82E-12	il6st	interleukin 6	ENSG00000134352
1091	ENSXETG00000023881	1.040464887	2.06E-06	kif9	kinesin family	ENSG00000088727
1092	ENSXETG00000023806	1.040429569	0.005992526	atrnl1	attractin like	ENSG00000107518
1093	ENSXETG00000012207	1.040212974	0.001472972	pla2g1b	phospholipas	ENSG00000170890
1094	ENSXETG00000023912	1.039672001	2.93E-45	c1s	complement	ENSG00000182326
1095	ENSXETG00000019705	1.039447368	0	slc25a10	solute carrier	ENSG00000262660,ENSG00000183048
1096	ENSXETG00000016965	1.039028931	1.66E-23	maml3	mastermind l	ENSG00000196782
1097	ENSXETG00000027534	1.038498742	1.63E-05	hoxa4	homeobox A4	ENSG00000197576
1098	ENSXETG00000018417	1.037516631	0.016166525	sall1	spalt-like tran	ENSG00000103449
1099	ENSXETG00000008547	1.037102888	2.22E-57	memo1	mediator of c	ENSG00000162959
1100	ENSXETG00000004865	1.037096318	0	pnpla3	patatin like pl	ENSG00000100344,ENSG00000100341
1101	ENSXETG00000011962	1.036881788	3.32E-24	dact1	disheveled-b	ENSG00000165617
1102	ENSXETG00000030224	1.036162704	0.016273278	ENSXETG00000030224		ENSG00000140527
1103	ENSXETG00000017123	1.035919821	3.65E-05	slc36a4	solute carrier	ENSG00000180773
1104	ENSXETG00000016388	1.035704982	0.003752527	foxl1	forkhead box	ENSG00000176678
1105	ENSXETG00000012033	1.035390105	4.53E-16	LATS1		ENSG00000131023
1106	ENSXETG00000021296	1.03527929	0.010435624	ppil6	peptidylproly	ENSG00000185250
1107	ENSXETG00000006915	1.035174708	0.003310014	syngr1	synaptogyrin	ENSG00000100321
1108	ENSXETG00000019722	1.032414629	0.000275102	phtf2	putative hom	ENSG00000006576
1109	ENSXETG00000011158	1.032170447	4.69E-12	pcdh18	protocadheri	ENSG00000189184
1110	ENSXETG00000023383	1.030881325	1.80E-13	znf148	zinc finger pr	ENSG00000163848
1111	ENSXETG00000022097	1.030754531	0.013563736	gipc3	GIPC PDZ dom	ENSG00000179855
1112	ENSXETG00000020324	1.029584371	1.58E-09	cpeb2	cytoplasmic p	ENSG00000137449
1113	ENSXETG00000006260	1.029404338	0.000459726	ak8	adenylate kin	ENSG00000165695
1114	ENSXETG00000012131	1.029061115	4.55E-93	tmem8a	transmembra	ENSG00000129925
1115	ENSXETG00000001415	1.029022838	3.83E-12	gbp7	guanylate bin	ENSG00000117226,ENSG00000162645,ENSG00000213512,ENSG00000183347,ENSG00000162654,ENSG00000154451,ENSG00000117228
1116	ENSXETG00000001967	1.028908929	2.41E-62	mdk	midkine	ENSG00000110492
1117	ENSXETG00000023012	1.028621311	3.08E-07	rcsd1	RCSD domain	ENSG00000198771
1118	ENSXETG00000016091	1.027664738	7.50E-202	e4f1	E4F transcript	ENSG00000167967
1119	ENSXETG00000022548	1.02762942	0.000135323	WNK2		ENSG00000165238
1120	ENSXETG00000025131	1.02544758	3.31E-12	ENSXETG00000025131		ENSG00000126821
1121	ENSXETG00000008840	1.025256608	3.33E-21	fzd2	frizzled class	ENSG00000180340
1122	ENSXETG00000009122	1.02512506	1.07E-15	dnaaf2	dynein, axone	ENSG00000165506
1123	ENSXETG00000009908	1.025078396	2.04E-62	atp6v1a	ATPase H+ tra	ENSG00000114573
1124	ENSXETG00000022417	1.024916498	1.15E-09	serpind1	serpin peptid	ENSG00000099937
1125	ENSXETG00000015532	1.024830469	0.010980047	fbxl16	F-box and leu	ENSG00000127585
1126	ENSXETG00000008194	1.024724918	1.21E-11	cds2	CDP-diacylgly	ENSG00000101290
1127	ENSXETG00000004470	1.023629417	0.006627043	cfap157	cilia and flage	ENSG00000160401
1128	ENSXETG00000010427	1.022850296	6.30E-09	snx16	sorting nexin	ENSG00000104497
1129	ENSXETG00000006153	1.02265134	2.23E-12	nudt13	nudix hydrola	ENSG00000166321
1130	ENSXETG00000013794	1.022322955	0.000120143	dzank1	double zinc ri	ENSG00000089091
1131	ENSXETG00000012255	1.021204197	0.016995363	dhrs7c	dehydrogena	ENSG00000184544
1132	ENSXETG00000014465	1.020924017	2.12E-08	kdelc2	KDEL motif co	ENSG00000178202
1133	ENSXETG00000013061	1.02090872	0.000708192	yjefn3	YjeF N-termin	ENSG00000250067
1134	ENSXETG00000018402	1.020109009	1.44E-107	pyroxd2	pyridine nucle	ENSG00000119943
1135	ENSXETG00000004315	1.019932024	1.05E-25	mmd	monocyte to	ENSG00000108960
1136	ENSXETG00000020891	1.019799854	0.007263265	nlgn3	neuroligin 3	ENSG00000196338
1137	ENSXETG00000013083	1.019490434	1.34E-41	clcn6	chloride chan	ENSG00000011021
1138	ENSXETG00000030708	1.019132394	1.22E-06	ENSXETG00000030708		ENSG00000196118
1139	ENSXETG00000031111	1.019077384	0.004699907	ENSXETG00000031111		ENSG00000104870,ENSG00000204520,ENSG00000204516
1140	ENSXETG00000004486	1.018816763	0.018506259	kif5c	kinesin family	ENSG00000168280
1141	ENSXETG00000000668	1.018549411	0.014678682	xkr5	X-linked Kx bl	ENSG00000275591
1142	ENSXETG00000001613	1.018543895	3.96E-18	emilin2	elastin microf	ENSG00000132205
1143	ENSXETG00000002166	1.017734006	4.82E-05	dnali1	dynein axone	ENSG00000163879
1144	ENSXETG00000001662	1.017534476	2.66E-26	snx15	sorting nexin	ENSG00000110025
1145	ENSXETG00000018422	1.017273041	0.004036091	hpse2	heparanase 2	ENSG00000172987
1146	ENSXETG00000014368	1.016488062	7.95E-195	zfand5	zinc finger AN	ENSG00000107372
1147	ENSXETG00000004201	1.016137579	0.00048259	ENSXETG00000004201		ENSG00000141519
1148	ENSXETG00000007116	1.014231401	0.010837376	ttc29	tetratricopep	ENSG00000137473
1149	ENSXETG00000015044	1.013809524	3.07E-14	il1rap	interleukin 1	ENSG00000196083
1150	ENSXETG00000023914	1.013734507	3.17E-27	ENSXETG00000023914		ENSG00000159403,ENSG00000139178
1151	ENSXETG00000030103	1.01364446	0.017739112	ENSXETG00000030103		ENSG00000206531,ENSG00000163606
1152	ENSXETG00000010231	1.013418524	0.001269348	rgs10	regulator of G	ENSG00000148908
1153	ENSXETG00000015595	1.013253533	0.008798625	npr3	natriuretic pe	ENSG00000113389
1154	ENSXETG00000005931	1.01307949	1.21E-22	ptpru	protein tyrosi	ENSG00000060656
1155	ENSXETG00000003641	1.012696869	0.017436922	slc6a13	solute carrier	ENSG00000010379
1156	ENSXETG00000000523	1.012538828	3.98E-17	bhmt	betaine--hom	ENSG00000132840,ENSG00000145692
1157	ENSXETG00000017066	1.012538752	5.89E-22	mhc2a	major histoco	ENSG00000204257
1158	ENSXETG00000030354	1.011460194	8.61E-13	ENSXETG00000030354		ENSG00000131746
1159	ENSXETG00000003733	1.011419261	8.14E-07	ENSXETG00000003733		ENSG00000138180
1160	ENSXETG00000004464	1.011105978	7.78E-97	sh2d4a	SH2 domain c	ENSG00000104611
1161	ENSXETG00000010185	1.011031382	0.00827049	dixdc1	DIX domain co	ENSG00000150764
1162	ENSXETG00000013724	1.010587393	3.84E-53	rmdn1	regulator of m	ENSG00000176623
1163	ENSXETG00000021660	1.01027459	0.000584716	scarf2	scavenger rec	ENSG00000244486
1164	ENSXETG00000030771	1.010077815	0.017583939	PLAC8		ENSG00000145287
1165	ENSXETG00000012145	1.009821597	7.36E-12	dhx35	DEAH-box hel	ENSG00000101452
1166	ENSXETG00000015914	1.009588584	1.58E-17	rybp	RING1 and YY	ENSG00000163602
1167	ENSXETG00000018660	1.008542462	8.52E-10	tpbg	trophoblast g	ENSG00000146242
1168	ENSXETG00000013911	1.008297299	0.019428709	DUSP27		ENSG00000198842
1169	ENSXETG00000013504	1.008294	1.15E-15	shh	sonic hedgeh	ENSG00000164690
1170	ENSXETG00000000873	1.008228904	0.016967136	cecr2	CECR2, histor	ENSG00000099954
1171	ENSXETG00000023900	1.008153842	0.015608202	duoxa1		ENSG00000140254,ENSG00000140274
1172	ENSXETG00000014776	1.007737562	0.0001591	tsc22d1	TSC22 domain	ENSG00000102804
1173	ENSXETG00000021844	1.00725152	0.007621342	hey2	hes related fa	ENSG00000135547
1174	ENSXETG00000008212	1.00702828	3.04E-17	ing1	inhibitor of gr	ENSG00000153487
1175	ENSXETG00000007822	1.006953782	0.012115813	lrfn2	leucine rich re	ENSG00000156564
1176	ENSXETG00000020744	1.006702526	2.95E-72	mapk6	mitogen-activ	ENSG00000069956
1177	ENSXETG00000005831	1.005845758	8.23E-07	tctn2	tectonic famil	ENSG00000168778
1178	ENSXETG00000025848	1.005672802	6.55E-74	sh3bgrl2	SH3 domain b	ENSG00000198478
1179	ENSXETG00000002171	1.004230216	9.58E-18	il11ra	interleukin 11	ENSG00000137070
1180	ENSXETG00000012662	1.004155576	0.000119712	ccdc14	coiled-coil do	ENSG00000175455
1181	ENSXETG00000015515	1.003824461	0.008512264	ENSXETG00000015515		ENSG00000106608
1182	ENSXETG00000017530	1.00358329	0.006081467	stmn4	stathmin 4	ENSG00000015592
1183	ENSXETG00000001479	1.003554995	0.010315533	plpp7	phospholipid	ENSG00000160539
1184	ENSXETG00000010633	1.002475596	1.66E-75	ptprk	protein tyrosi	ENSG00000152894
1185	ENSXETG00000012629	1.002282323	3.15E-60	nrp1	neuropilin 1	ENSG00000099250
1186	ENSXETG00000027245	1.002034691	0.012899955	ogn	osteoglycin	ENSG00000106809
1187	ENSXETG00000010630	1.001525647	0.006174457	soga3	SOGA family m	ENSG00000214338,ENSG00000255330
1188	ENSXETG00000012743	1.001501249	3.29E-14	rcor1	REST corepre	ENSG00000089902
1189	ENSXETG00000016103	1.001399095	0.004545286	fsd2	fibronectin ty	ENSG00000186628
1190	ENSXETG00000011877	1.000570482	2.71E-234	cd74	CD74 molecul	ENSG00000019582
1191	ENSXETG00000016887	1.00034068	2.00E-07	nfatc4	nuclear facto	ENSG00000100968
1192	ENSXETG00000016659	1.000214044	0.000152358	eri2	ERI1 exoribon	ENSG00000196678

Supplemental Table 2D. Genes with at least 2 fold change in expression in T3 treatment in TRα knockout tadpoles.

2-fold change (DOWN)

No	Gene ID	log2FoldChange	padj	Gene Symbol	Gene Name	Ensemble_Human ID
1	ENSXETG00000006829	-7.648221817	1.73E-127	cela2a	chymotrypsin	ENSG00000215704,ENSG00
2	ENSXETG00000001746	-7.59791724	2.13E-154	slc39a2	solute carrier	ENSG00000165794
3	ENSXETG00000005773	-7.077016815	1.02E-151	noxo1.1	NADPH oxida	ENSG00000196408
4	ENSXETG00000016042	-6.747590359	3.36E-165	tm4sf1	transmembra	ENSG00000169908
5	ENSXETG00000031155	-6.688873445	8.02E-86	ENSXETG00000031155		ENSG00000204983,ENSG00
6	ENSXETG00000016566	-6.671013076	3.40E-92	ENSXETG00000016566		ENSG00000204983,ENSG00
7	ENSXETG00000022690	-6.569763437	1.87E-105	cldn18	claudin 18	ENSG00000066405
8	ENSXETG00000016293	-6.509365682	9.42E-80	cpa1	carboxypepti	ENSG00000091704
9	ENSXETG00000005947	-6.407458566	1.09E-98	slc26a9	solute carrier	ENSG00000174502
10	ENSXETG00000006294	-6.291667259	4.85E-86	ENSXETG00000006294		ENSG00000005001,ENSG00
11	ENSXETG00000004372	-6.231754195	0	umod.1	uromodulin (u	ENSG00000169344,ENSG00
12	ENSXETG00000007733	-5.895548564	8.78E-67	prss2	protease, seri	ENSG00000204983,ENSG00
13	ENSXETG00000008818	-5.8381932	1.53E-72	ENSXETG00000008818		ENSG00000156413,ENSG00
14	ENSXETG00000025157	-5.773267437	1.60E-57	ENSXETG00000025157	chymotrypsin	ENSG00000139610
15	ENSXETG00000012851	-5.66839018	1.32E-83	vsig1	V-set and imr	ENSG00000101842
16	ENSXETG00000015596	-5.619669811	6.61E-57	ctrb2	chymotrypsin	ENSG00000168928,ENSG00
17	ENSXETG00000023614	-5.608458379	4.52E-70	nkx6-2	NK6 homeobo	ENSG00000148826
18	ENSXETG00000004623	-5.475036895	8.90E-95	syt8	synaptotagmi	ENSG00000149043
19	ENSXETG00000004380	-5.426454101	3.84E-66	ENSXETG00000004380		ENSG00000169344,ENSG00
20	ENSXETG00000004371	-5.374495668	0	tspan1	tetraspanin 1	ENSG00000117472
21	ENSXETG00000023154	-5.330458993	1.64E-171	slc9a3	solute carrier	ENSG00000066230
22	ENSXETG00000016802	-5.291699698	1.18E-64	nkx6-3	NK6 homeobo	ENSG00000165066
23	ENSXETG00000013482	-5.168326557	1.88E-67	unc45b	unc-45 myosi	ENSG00000141161
24	ENSXETG00000018960	-4.928537505	4.08E-75	ENSXETG00000018960		ENSG00000215182
25	ENSXETG00000007345	-4.823784324	1.38E-39	cldn8.3	claudin 8, ger	ENSG00000156284
26	ENSXETG00000017292	-4.7904082	1.44E-305	teddm1	transmembra	ENSG00000203730
27	ENSXETG00000030368	-4.606212011	1.71E-34	PI15		ENSG00000137558
28	ENSXETG00000005714	-4.59404158	3.05E-90	fabp6	fatty acid bin	ENSG00000170231
29	ENSXETG00000021814	-4.542536751	4.04E-105	slc16a12	solute carrier	ENSG00000152779
30	ENSXETG00000014195	-4.514305579	1.67E-32	ENSXETG00000014195		ENSG00000139610
31	ENSXETG00000014481	-4.133780077	1.30E-59	gadl1	glutamate de	ENSG00000144644
32	ENSXETG00000013041	-4.105320771	3.08E-26	LYZ		ENSG00000090382
33	ENSXETG00000007353	-3.914646167	1.41E-24	tgm5	transglutamin	ENSG00000159495,ENSG00
34	ENSXETG00000017149	-3.893322111	2.98E-32	inhbc.1	inhibin beta C	ENSG00000139269,ENSG00
35	ENSXETG00000018739	-3.890092874	0	cdo1	cysteine diox	ENSG00000129596
36	ENSXETG00000016627	-3.851289566	1.85E-61	EML5		ENSG00000165521
37	ENSXETG00000003934	-3.83630766	2.09E-197	slc37a2	solute carrier	ENSG00000134955
38	ENSXETG00000001030	-3.828913045	6.93E-26	ENSXETG00000001030		ENSG00000162572
39	ENSXETG00000012656	-3.826066075	7.89E-29	vsig2	V-set and imr	ENSG00000019102
40	ENSXETG00000012760	-3.785869882	0	ENSXETG00000012760		ENSG00000144035
41	ENSXETG00000020878	-3.775699253	2.89E-24	atp8b1	ATPase phosp	ENSG00000081923
42	ENSXETG00000008638	-3.77376959	1.20E-256	MGC107780		ENSG00000160339,ENSG00
43	ENSXETG00000019854	-3.761524128	2.29E-141	sgms2	sphingomyeli	ENSG00000164023
44	ENSXETG00000018779	-3.746410799	1.29E-43	adamts17	ADAM metall	ENSG00000140470
45	ENSXETG00000018715	-3.730035841	1.09E-86	olfm4	olfactomedin	ENSG00000102837
46	ENSXETG00000031224	-3.721573458	2.16E-23	ENSXETG00000031224		ENSG00000187492
47	ENSXETG00000006460	-3.709401496	1.62E-28	camk2a	calcium/calm	ENSG00000070808
48	ENSXETG00000023306	-3.692939948	2.09E-46	celsr1	cadherin EGF	ENSG00000075275
49	ENSXETG00000006887	-3.642284982	4.04E-50	itih3	inter-alpha-tr	ENSG00000055957
50	ENSXETG00000016077	-3.573835045	2.87E-19	cpb1	carboxypepti	ENSG00000153002
51	ENSXETG00000005932	-3.573172248	9.97E-79	ctse	cathepsin E	ENSG00000196188
52	ENSXETG00000021408	-3.537024606	5.51E-21	dnah5	dynein axone	ENSG00000039139
53	ENSXETG00000019618	-3.502760221	2.67E-23	nptx1	neuronal pen	ENSG00000171246
54	ENSXETG00000022442	-3.42719322	2.68E-107	mal	mal, T-cell dif	ENSG00000172005
55	ENSXETG00000005916	-3.393009759	0	msrb2	methionine su	ENSG00000148450
56	ENSXETG00000007734	-3.304856434	2.08E-16	ENSXETG00000007734		ENSG00000204983,ENSG00
57	ENSXETG00000004104	-3.287072667	3.62E-38	cthrc1	collagen triple	ENSG00000164932
58	ENSXETG00000003737	-3.230708759	1.65E-28	cpn1	carboxypepti	ENSG00000120054
59	ENSXETG00000001501	-3.197716171	1.25E-15	nipal4	NIPA-like dom	ENSG00000172548
60	ENSXETG00000003088	-3.164503034	5.31E-16	clca3p	chloride chan	ENSG00000166602,ENSG00
61	ENSXETG00000008794	-3.159535212	2.09E-18	ENSXETG00000008794		ENSG00000127954
62	ENSXETG00000023898	-3.123842606	0	duox2	dual oxidase 2	ENSG00000137857,ENSG00
63	ENSXETG00000031159	-3.122978141	7.48E-15	CP		ENSG00000047457
64	ENSXETG00000006429	-3.119084109	2.21E-28	hephl1	hephaestin lik	ENSG00000181333
65	ENSXETG00000018262	-3.11720345	7.99E-42	pglyrp1	peptidoglycar	ENSG00000159527,ENSG00
66	ENSXETG00000016111	-3.043346815	3.39E-27	slc27a2	solute carrier	ENSG00000140284
67	ENSXETG00000031325	-3.03028173	0	S100P		ENSG00000163993
68	ENSXETG00000025129	-3.020138636	6.31E-17	saxo2	stabilizer of a	ENSG00000188659
69	ENSXETG00000026148	-2.984478547	1.53E-13	ENSXETG00000026148		ENSG00000204983,ENSG00
70	ENSXETG00000012557	-2.963341226	2.05E-51	col6a3	collagen, type	ENSG00000206384,ENSG00
71	ENSXETG00000010839	-2.951276637	2.79E-42	COL11A1		ENSG00000060718
72	ENSXETG00000017676	-2.948236712	6.30E-67	adamts4	ADAM metall	ENSG00000158859
73	ENSXETG00000001688	-2.933553525	4.07E-147	mamdc2	MAM domain	ENSG00000165072
74	ENSXETG00000022215	-2.928426267	6.12E-59	mmp13l	matrix metall	ENSG00000137745
75	ENSXETG00000021140	-2.914971393	0	cyp1a1	cytochrome P	ENSG00000140505,ENSG00
76	ENSXETG00000014770	-2.900737129	3.03E-291	tm4sf20	transmembra	ENSG00000168955
77	ENSXETG00000000396	-2.896889329	1.31E-43	MGC108470		ENSG00000160339,ENSG00
78	ENSXETG00000012422	-2.874226375	7.30E-45	tmprss15	transmembra	ENSG00000154646
79	ENSXETG00000024931	-2.870437627	2.50E-14	igl	immunoglobu	ENSG00000211659,ENSG00
80	ENSXETG00000002138	-2.869888268	1.17E-26	ENSXETG00000002138		ENSG00000120885
81	ENSXETG00000025478	-2.864934305	1.10E-18	lum	lumican	ENSG00000139329
82	ENSXETG00000007412	-2.864675674	2.31E-14	dnah11	dynein axone	ENSG00000105877
83	ENSXETG00000012994	-2.862865266	6.86E-13	ENSXETG00000012994		ENSG00000180644
84	ENSXETG00000014950	-2.843832491	3.40E-68	ccdc136	coiled-coil do	ENSG00000128596
85	ENSXETG00000018293	-2.835565452	3.22E-23	kcnip1	Kv channel in	ENSG00000182132
86	ENSXETG00000006623	-2.833863239	1.80E-39	lrrc15	leucine rich re	ENSG00000172061
87	ENSXETG00000027655	-2.831316901	9.19E-66	slc25a40	solute carrier	ENSG00000075303
88	ENSXETG00000008198	-2.828128342	9.89E-28	antxr1	anthrax toxin	ENSG00000169604
89	ENSXETG00000004035	-2.824840237	1.04E-21	prss12	protease, seri	ENSG00000164099
90	ENSXETG00000019539	-2.821552683	1.63E-13	cfap52	cilia and flage	ENSG00000166596
91	ENSXETG00000027407	-2.819049353	4.10E-50	steap4	STEAP4 meta	ENSG00000127954
92	ENSXETG00000004700	-2.798014549	6.20E-14	hpx	hemopexin	ENSG00000110169
93	ENSXETG00000017241	-2.791913398	0	ENSXETG00000017241		ENSG00000125730
94	ENSXETG00000003603	-2.756755762	9.97E-222	col12a1	collagen, type	ENSG00000111799
95	ENSXETG00000006265	-2.756054871	2.91E-50	cel	carboxyl este	ENSG00000170835
96	ENSXETG00000007732	-2.73898163	1.39E-11	prss1	protease, seri	ENSG00000204983,ENSG00
97	ENSXETG00000012498	-2.72982833	2.49E-29	nos2	nitric oxide sy	ENSG00000007171
98	ENSXETG00000015719	-2.722368151	1.08E-18	odf3	outer dense f	ENSG00000177989,ENSG00
99	ENSXETG00000005727	-2.719674989	2.39E-18	c1qtnf1	C1q and TNF	ENSG00000184471,ENSG00
100	ENSXETG00000004725	-2.715925837	2.36E-107	ttr	transthyretin	ENSG00000118271
101	ENSXETG00000022372	-2.714893422	0	mmp11	matrix metall	ENSG00000099953
102	ENSXETG00000002603	-2.679101144	3.94E-11	gas2p	growth arrest	ENSG00000148935
103	ENSXETG00000004863	-2.671727267	1.77E-11	efcab6	EF-hand calci	ENSG00000186976
104	ENSXETG00000014270	-2.657598599	6.39E-11	ENSXETG00000014270		ENSG00000215704,ENSG00
105	ENSXETG00000008550	-2.644064066	2.61E-43	thbs2	thrombospon	ENSG00000186340
106	ENSXETG00000005356	-2.635507881	1.35E-233	stab2	stabilin 2	ENSG00000136011
107	ENSXETG00000012981	-2.633999659	7.68E-190	cemip	cell migration	ENSG00000103888
108	ENSXETG00000022360	-2.623525385	3.16E-24	slc2a11	solute carrier	ENSG00000133460,ENSG00
109	ENSXETG00000001040	-2.621035672	2.35E-11	ENSXETG00000001040		ENSG00000104951
110	ENSXETG00000030070	-2.619702182	4.77E-17	CUZD1		ENSG00000138161
111	ENSXETG00000019362	-2.611786342	2.04E-14	XB-GENE-5742361	hypothetical	ENSG00000132703,ENSG00
112	ENSXETG00000023798	-2.60749838	1.02E-28	clu	clusterin	ENSG00000120885
113	ENSXETG00000007352	-2.597921468	5.58E-21	hunk	hormonally u	ENSG00000142149
114	ENSXETG00000030515	-2.586029148	1.35E-181	ENSXETG00000030515		ENSG00000104870,ENSG00
115	ENSXETG00000023912	-2.582085731	1.10E-186	c1s	complement	ENSG00000182326
116	ENSXETG00000017270	-2.566452426	0	c3	complement	ENSG00000125730
117	ENSXETG00000004435	-2.56376102	3.43E-16	csrp3	cysteine and	ENSG00000129170
118	ENSXETG00000011179	-2.551093993	1.71E-123	ptger3	prostaglandin	ENSG00000050628
119	ENSXETG00000016245	-2.540878417	1.94E-11	tmem52b	transmembra	ENSG00000165685
120	ENSXETG00000021847	-2.522694057	1.62E-94	dcn	decorin	ENSG00000011465
121	ENSXETG00000013424	-2.512177331	4.90E-18	mfap2	microfibril ass	ENSG00000117122
122	ENSXETG00000023914	-2.505316094	3.31E-110	ENSXETG00000023914		ENSG00000159403,ENSG00
123	ENSXETG00000026087	-2.497448118	1.94E-49	sfrp2	secreted frizz	ENSG00000145423
124	ENSXETG00000002411	-2.495350229	9.19E-106	dpt	dermatopont	ENSG00000143196
125	ENSXETG00000021636	-2.495294304	9.16E-38	amdhd1	amidohydrola	ENSG00000139344
126	ENSXETG00000004373	-2.484900367	9.32E-11	tekt2	tektin 2 (testi	ENSG00000092850
127	ENSXETG00000027636	-2.476585651	6.61E-11	c1r	complement	ENSG00000159403,ENSG00
128	ENSXETG00000031143	-2.447394833	1.10E-09	ENSXETG00000031143		ENSG00000204361,ENSG00
129	ENSXETG00000015374	-2.446839698	3.12E-11	nr0b1	nuclear recep	ENSG00000169297
130	ENSXETG00000015580	-2.444175324	1.31E-51	htra1	HtrA serine pe	ENSG00000166033
131	ENSXETG00000005357	-2.419955313	4.79E-167	nt5dc3	5'-nucleotidas	ENSG00000111696
132	ENSXETG00000002801	-2.415326216	1.02E-177	mmp2	matrix metall	ENSG00000087245
133	ENSXETG00000009227	-2.403655788	2.38E-16	khdrbs3	KH domain co	ENSG00000131773
134	ENSXETG00000012050	-2.394121027	2.35E-14	PRDM16		ENSG00000142611
135	ENSXETG00000006261	-2.371606555	6.32E-09	spaca9	sperm acroso	ENSG00000165698
136	ENSXETG00000000457	-2.36850616	8.78E-10	adamts6	ADAM metall	ENSG00000049192
137	ENSXETG00000030188	-2.366453238	3.83E-09	DNAH10		ENSG00000197653
138	ENSXETG00000012677	-2.357902358	1.33E-103	XB-GENE-5886929	hypothetical	ENSG00000132703,ENSG00
139	ENSXETG00000027088	-2.350704479	1.36E-39	fut4	fucosyltransfe	ENSG00000156413,ENSG00
140	ENSXETG00000001114	-2.34073819	2.08E-24	rai2	retinoic acid i	ENSG00000131831
141	ENSXETG00000012244	-2.34070425	1.52E-86	PTX3		ENSG00000163661
142	ENSXETG00000014366	-2.338172676	3.16E-98	flvcr1	feline leukem	ENSG00000162769
143	ENSXETG00000011787	-2.333169958	2.60E-43	pdx1	pancreatic an	ENSG00000139515
144	ENSXETG00000014014	-2.331423738	5.98E-11	slc1a4	solute carrier	ENSG00000115902
145	ENSXETG00000002028	-2.327927542	0	ulk1	unc-51 like au	ENSG00000177169
146	ENSXETG00000030204	-2.326272206	0	spock3		ENSG00000196104
147	ENSXETG00000030965	-2.307373793	0	ENSXETG00000030965		ENSG00000167676
148	ENSXETG00000021035	-2.306827534	2.57E-46	pdgfra	platelet-deriv	ENSG00000134853
149	ENSXETG00000008982	-2.305928216	1.92E-13	grb14	growth factor	ENSG00000115290
150	ENSXETG00000024932	-2.294588798	1.87E-08	ENSXETG00000024932		ENSG00000211592,ENSG00
151	ENSXETG00000019549	-2.294387765	2.01E-08	foxj1	forkhead box	ENSG00000129654
152	ENSXETG00000021851	-2.277915085	7.80E-16	mmp19	matrix metall	ENSG00000123342
153	ENSXETG00000024551	-2.276189313	3.94E-19	scel	sciellin	ENSG00000136155
154	ENSXETG00000007571	-2.273435166	3.21E-10	acan	aggrecan	ENSG00000157766
155	ENSXETG00000022285	-2.271938143	7.48E-14	vit	vitrin	ENSG00000205221
156	ENSXETG00000019879	-2.268981236	7.17E-70	igfbp5	insulin like gr	ENSG00000115461
157	ENSXETG00000016064	-2.247242318	1.35E-10	tekt4	tektin 4	ENSG00000163060,ENSG00
158	ENSXETG00000014029	-2.246830887	8.92E-16	ins	insulin	ENSG00000129965,ENSG00
159	ENSXETG00000015370	-2.233974506	7.71E-25	mybph	myosin bindir	ENSG00000221986,ENSG00
160	ENSXETG00000012642	-2.22936418	6.98E-12	ENSXETG00000012642		ENSG00000204361,ENSG00
161	ENSXETG00000018790	-2.226590901	7.35E-47	sh3pxd2b	SH3 and PX do	ENSG00000174705
162	ENSXETG00000006252	-2.217946773	1.31E-33	ENSXETG00000006252		ENSG00000182938
163	ENSXETG00000011814	-2.217467977	0	tf	transferrin	ENSG00000012223,ENSG00
164	ENSXETG00000004553	-2.213856321	4.76E-08	armc4	armadillo rep	ENSG00000169126
165	ENSXETG00000018032	-2.199472728	1.87E-24	tubb2b	tubulin beta 2	ENSG00000137285,ENSG00
166	ENSXETG00000001882	-2.190227499	3.49E-229	chst11	carbohydrate	ENSG00000171310
167	ENSXETG00000013950	-2.185174955	4.59E-08	ak7	adenylate kin	ENSG00000140057
168	ENSXETG00000030433	-2.176484869	4.10E-25	proser2		ENSG00000148426
169	ENSXETG00000001781	-2.169968895	8.26E-121	fbn3	fibrillin 3	ENSG00000142449
170	ENSXETG00000025827	-2.16025341	6.94E-10	fshr	follicle stimul	ENSG00000170820
171	ENSXETG00000023900	-2.153156412	1.18E-07	duoxa1		ENSG00000140254,ENSG00
172	ENSXETG00000017377	-2.152291333	6.10E-15	pcolce	procollagen C	ENSG00000106333
173	ENSXETG00000022417	-2.146829721	3.60E-31	serpind1	serpin peptid	ENSG00000099937
174	ENSXETG00000011881	-2.145371916	3.61E-11	arsi	arylsulfatase	ENSG00000183876
175	ENSXETG00000002785	-2.144879458	1.88E-07	slc6a2	solute carrier	ENSG00000103546
176	ENSXETG00000025507	-2.139682156	0	ethe1	ethylmalonic	ENSG00000105755
177	ENSXETG00000027271	-2.134795368	4.39E-10	XB-GENE-5856185	hypothetical	ENSG00000132703,ENSG00
178	ENSXETG00000018643	-2.134205667	1.42E-08	ENSXETG00000018643		ENSG00000173868
179	ENSXETG00000001547	-2.131653051	4.21E-207	col4a6	collagen, type	ENSG00000197565
180	ENSXETG00000025811	-2.129154072	1.87E-13	adra2b	adrenoceptor	ENSG00000274286
181	ENSXETG00000023476	-2.120744379	4.49E-35	hoxc8	homeobox C8	ENSG00000037965
182	ENSXETG00000021762	-2.117758255	6.05E-155	angptl2	angiopoietin l	ENSG00000136859
183	ENSXETG00000017712	-2.117434276	2.68E-271	emb	embigin	ENSG00000170571
184	ENSXETG00000008299	-2.110758847	1.14E-07	dnah2	dynein, axone	ENSG00000183914
185	ENSXETG00000012142	-2.098849219	2.47E-70	ppp1r16b	protein phosp	ENSG00000101445
186	ENSXETG00000000694	-2.088768319	6.10E-13	zdhhc2	zinc finger DH	ENSG00000104219
187	ENSXETG00000010810	-2.085489455	1.69E-10	fbln2	fibulin 2	ENSG00000163520
188	ENSXETG00000015232	-2.084161956	3.68E-07	slco5a1	solute carrier	ENSG00000137571
189	ENSXETG00000023916	-2.078741311	1.24E-16	clstn3	calsyntenin 3	ENSG00000139182
190	ENSXETG00000010800	-2.074311059	0	ENSXETG00000010800	gastrula zinc f	ENSG00000128311
191	ENSXETG00000010783	-2.069980831	0	col3a1	collagen, type	ENSG00000168542
192	ENSXETG00000017737	-2.067480961	3.60E-52	asap1	ArfGAP with S	ENSG00000153317
193	ENSXETG00000002294	-2.062485001	2.00E-07	ttc25	tetratricopep	ENSG00000204815
194	ENSXETG00000022839	-2.054803294	3.23E-36	mecom	MDS1 and EV	ENSG00000085276
195	ENSXETG00000021089	-2.051095754	8.65E-36	uchl1	ubiquitin C-te	ENSG00000154277
196	ENSXETG00000019437	-2.045107009	3.77E-07	ccdc39	coiled-coil do	ENSG00000145075
197	ENSXETG00000010716	-2.037667096	7.60E-28	ckap4	cytoskeleton-	ENSG00000136026
198	ENSXETG00000005417	-2.03716465	2.38E-17	kiaa1324l	KIAA1324-like	ENSG00000164659
199	ENSXETG00000013196	-2.03703745	4.46E-11	lix1	limb and CNS	ENSG00000145721
200	ENSXETG00000010527	-2.036597652	4.73E-07	rsph1	radial spoke h	ENSG00000160188
201	ENSXETG00000020303	-2.035593038	8.46E-07	zbtb7c	zinc finger an	ENSG00000184828
202	ENSXETG00000005880	-2.034479239	1.08E-89	hip1	huntingtin int	ENSG00000127946
203	ENSXETG00000024756	-2.031225465	2.40E-18	dnm1	dynamin 1	ENSG00000106976
204	ENSXETG00000000251	-2.025097908	8.03E-51	hmox1	heme oxygen	ENSG00000100292
205	ENSXETG00000019581	-2.009864323	1.33E-07	hs3st3a1	heparan sulfa	ENSG00000153976,ENSG00
206	ENSXETG00000002427	-2.006500384	2.01E-122	ccdc80	coiled-coil do	ENSG00000091986
207	ENSXETG00000019005	-2.004673203	3.57E-07	ENSXETG00000019005		ENSG00000163071
208	ENSXETG00000009166	-2.00453369	3.09E-10	hmp19	neuronal vesi	ENSG00000170091
209	ENSXETG00000024528	-2.003781008	3.43E-10	CFAP70		ENSG00000156042
210	ENSXETG00000003133	-1.998067071	2.18E-13	tmem26	transmembra	ENSG00000196932
211	ENSXETG00000018009	-1.990438976	3.77E-161	fstl1	follistatin like	ENSG00000163430
212	ENSXETG00000007838	-1.990098378	4.49E-21	adamts7	ADAM metall	ENSG00000136378
213	ENSXETG00000003007	-1.98682129	2.02E-07	ENSXETG00000003007		ENSG00000168724
214	ENSXETG00000022669	-1.98355834	0	mmp14	matrix metall	ENSG00000157227
215	ENSXETG00000010784	-1.982843439	0	COL5A2		ENSG00000204262
216	ENSXETG00000015620	-1.97740564	2.22E-17	enkd1	enkurin doma	ENSG00000124074
217	ENSXETG00000003071	-1.97057961	1.88E-30	fbln1	fibulin 1	ENSG00000077942
218	ENSXETG00000000906	-1.969936047	2.81E-08	tbc1d19	TBC1 domain	ENSG00000109680
219	ENSXETG00000013633	-1.969723979	3.92E-118	rab30	RAB30, memb	ENSG00000137502
220	ENSXETG00000014625	-1.967140786	1.17E-103	nell2	neural EGFL li	ENSG00000184613
221	ENSXETG00000009462	-1.964259317	3.90E-168	as3mt.1	arsenite meth	ENSG00000214435
222	ENSXETG00000013228	-1.961628337	5.12E-40	egflam	EGF-like, fibro	ENSG00000164318
223	ENSXETG00000006456	-1.950158079	4.73E-12	uggt2	UDP-glucose g	ENSG00000102595
224	ENSXETG00000004679	-1.947766535	3.15E-50	lox	lysyl oxidase	ENSG00000113083
225	ENSXETG00000014905	-1.943943791	2.53E-26	lama2	laminin subur	ENSG00000196569
226	ENSXETG00000004752	-1.940143609	4.27E-11	XB-GENE-983827	Putative orth	ENSG00000162733
227	ENSXETG00000005917	-1.937666973	2.64E-06	armc3	armadillo rep	ENSG00000165309
228	ENSXETG00000018328	-1.933084589	3.38E-09	GSG1L		ENSG00000169181
229	ENSXETG00000022020	-1.931860153	1.36E-09	fam198a	family with se	ENSG00000144649
230	ENSXETG00000003265	-1.930321292	2.80E-13	b4galt2	UDP-Gal:beta	ENSG00000117411
231	ENSXETG00000012140	-1.928821349	3.36E-06	pdia2	protein disulf	ENSG00000185615
232	ENSXETG00000009066	-1.927292917	5.08E-09	kcnab3	potassium ch	ENSG00000170049
233	ENSXETG00000015574	-1.924866846	7.31E-26	pdzd2	PDZ domain c	ENSG00000133401
234	ENSXETG00000003466	-1.924769293	1.80E-21	cdk14	cyclin-depend	ENSG00000058091
235	ENSXETG00000004060	-1.923738496	6.44E-08	nkx3-2	NK3 homeobo	ENSG00000109705
236	ENSXETG00000022431	-1.92256835	6.74E-09	fgb	fibrinogen be	ENSG00000171564

2-fold change (UP)

No	Gene ID	log2FoldChange	padj	Gene Symbol	Gene Name	Ensemble_Human ID
1	ENSXETG00000017935	5.026664305	5.11E-200	ugt2a1	UDP glucuron	ENSG00000135226,ENSG00000270386,ENSG00000171234,ENSG00000109181,ENSG00000197888,ENSG00000173610,ENSG00000135220,ENSG00000196620,ENSG00000271271,ENSG00000156096,ENSG00000213759
2	ENSXETG00000025667	4.654894077	0	hbg1	hemoglobin s	ENSG00000213934,ENSG00000213931,ENSG00000196565
3	ENSXETG00000030969	4.390768377	1.90E-58	ENSXETG00000030969		ENSG00000135917
4	ENSXETG00000025664	4.206460653	0	hba1	hemoglobin s	ENSG00000206172,ENSG00000086506,ENSG00000188536
5	ENSXETG00000002542	3.986354666	3.02E-101	slc5a8	solute carrier	ENSG00000256870
6	ENSXETG00000007458	3.849286743	4.44E-282	st8sia6	ST8 alpha-N-a	ENSG00000148488
7	ENSXETG00000010911	2.884147129	7.13E-32	ENSXETG00000010911		ENSG00000105366,ENSG00000142512,ENSG00000105501,ENSG00000105383,ENSG00000254415,ENSG00000105492,ENSG00000268500,ENSG00000161640,ENSG00000168995,ENSG00000254521,ENSG00000129450
8	ENSXETG00000022374	2.85498768	2.48E-39	baat	bile acid-CoA	ENSG00000136881
9	ENSXETG00000016264	2.775013658	0	ENSXETG00000016264		ENSG00000168060
10	ENSXETG00000026284	2.73013631	2.50E-276	GDPD3		ENSG00000102886
11	ENSXETG00000010379	2.584558309	2.61E-98	upp2	uridine phosp	ENSG00000007001
12	ENSXETG00000027375	2.324186892	9.63E-12	gcm1	glial cells miss	ENSG00000137270
13	ENSXETG00000020097	2.265609694	1.60E-08	clrn1	clarin 1	ENSG00000163646,ENSG00000260234
14	ENSXETG00000010535	2.247294997	2.52E-12	phyhip	phytanoyl-Co	ENSG00000168490
15	ENSXETG00000026715	2.177158581	2.36E-55	spef1	sperm flagella	ENSG00000144063
16	ENSXETG00000022391	2.148375845	4.61E-47	lipg	lipase, endot	ENSG00000101670
17	ENSXETG00000014752	2.146011164	4.54E-08	grk7	G protein-cou	ENSG00000114124
18	ENSXETG00000031281	2.123123551	0	aqp8		ENSG00000103375
19	ENSXETG00000024584	2.104219322	2.00E-17	nalcn	sodium leak c	ENSG00000102452
20	ENSXETG00000007058	2.089705943	2.98E-12	ENSXETG00000007058		ENSG00000106608
21	ENSXETG00000016289	2.053767847	5.27E-37	ucn3	urocortin 3	ENSG00000178473
22	ENSXETG00000026010	2.018247723	0	ca3	carbonic anhy	ENSG00000185015
23	ENSXETG00000003576	2.000751687	3.23E-127	chst6	carbohydrate	ENSG00000135702,ENSG00000183196
24	ENSXETG00000018063	1.996852314	5.74E-07	cga	glycoprotein	ENSG00000135346
25	ENSXETG00000030089	1.963306552	9.52E-10	RASL10B		ENSG00000270885
26	ENSXETG00000004232	1.939647455	0	ggt1	gamma-gluta	ENSG00000274252,ENSG00000100121,ENSG00000133475,ENSG00000149435,ENSG00000100031
27	ENSXETG00000010123	1.933703054	1.27E-38	scn4b	sodium voltag	ENSG00000177098
28	ENSXETG00000003683	1.930976114	2.50E-57	pth1r	parathyroid h	ENSG00000160801
29	ENSXETG00000026395	1.922545684	2.12E-15	nmral1	NmrA-like far	ENSG00000153406
30	ENSXETG00000025303	1.912588976	1.25E-34	cyp1b1	cytochrome P	ENSG00000138061
31	ENSXETG00000022960	1.911908818	0	aqp10	aquaporin 10	ENSG00000143595
32	ENSXETG00000031156	1.906332284	2.65E-126	ENSXETG00000031156		ENSG00000269693
33	ENSXETG00000000655	1.885136097	1.66E-07	trim50	tripartite mot	ENSG00000146755,ENSG00000178809,ENSG00000155428
34	ENSXETG00000013364	1.867959319	2.33E-68	rhobtb3	Rho-related B	ENSG00000164292
35	ENSXETG00000010923	1.854525155	6.21E-247	ENSXETG00000010923		ENSG00000105366,ENSG00000142512,ENSG00000105501,ENSG00000105383,ENSG00000254415,ENSG00000105492,ENSG00000268500,ENSG00000161640,ENSG00000168995,ENSG00000254521,ENSG00000129450
36	ENSXETG00000020334	1.835039128	1.88E-19	fgfbp1	fibroblast gro	ENSG00000137440
37	ENSXETG00000006746	1.81962144	8.34E-289	slc52a3	solute carrier	ENSG00000101276
38	ENSXETG00000019409	1.787735485	5.24E-283	ccdc69	coiled-coil do	ENSG00000198624
39	ENSXETG00000004467	1.773997465	2.10E-57	lpl	lipoprotein lip	ENSG00000175445
40	ENSXETG00000001727	1.769295129	2.06E-163	fam105a	family with se	ENSG00000145569
41	ENSXETG00000018744	1.768683741	1.79E-141	chsy1	chondroitin su	ENSG00000131873
42	ENSXETG00000014497	1.766115389	0	slc22a13	solute carrier	ENSG00000172940
43	ENSXETG00000001534	1.730941744	5.18E-32	enpp6	ectonucleotid	ENSG00000164303
44	ENSXETG00000026980	1.726084846	0	ENSXETG00000026980		ENSG00000006747
45	ENSXETG00000011549	1.721752923	1.22E-46	klf15	Kruppel-like f	ENSG00000163884
46	ENSXETG00000011551	1.719081953	0	aldh1l1	aldehyde deh	ENSG00000144908
47	ENSXETG00000013178	1.703170811	3.38E-273	gcg	glucagon	ENSG00000115263
48	ENSXETG00000023865	1.69950427	0	slco4c1	solute carrier	ENSG00000173930,ENSG00000205359
49	ENSXETG00000010302	1.688770834	0	chga	chromogranin	ENSG00000100604
50	ENSXETG00000025544	1.672942393	0	cpo	carboxypepti	ENSG00000144410
51	ENSXETG00000004451	1.67293632	7.84E-12	khdrbs2	KH domain co	ENSG00000112232
52	ENSXETG00000013365	1.66504811	2.05E-97	rfesd	Rieske (Fe-S)	ENSG00000175449
53	ENSXETG00000011666	1.655712589	1.73E-224	frrs1	ferric-chelate	ENSG00000156869
54	ENSXETG00000007231	1.639016171	0	fgfr4	fibroblast gro	ENSG00000160867
55	ENSXETG00000001622	1.633573584	4.85E-18	hcrtr2	hypocretin (o	ENSG00000137252
56	ENSXETG00000013333	1.633108745	0	enpep	glutamyl amin	ENSG00000138792
57	ENSXETG00000023279	1.605008943	2.55E-55	atoh1	atonal bHLH t	ENSG00000172238
58	ENSXETG00000029017	1.595867552	4.03E-06	xtr-let-7i		ENSG00000199179
59	ENSXETG00000029956	1.593252196	2.37E-49	ENSXETG00000029956		ENSG00000176485,ENSG00000133328
60	ENSXETG00000027880	1.590974907	0	dusp1	dual specificit	ENSG00000120129
61	ENSXETG00000019672	1.58544266	4.74E-65	SPIRE1		ENSG00000134278
62	ENSXETG00000006221	1.580993277	3.79E-36	arsd	arylsulfatase	ENSG00000062096,ENSG00000006756,ENSG00000205667,ENSG00000157399
63	ENSXETG00000007257	1.572408111	3.51E-216	esr2	estrogen rece	ENSG00000140009
64	ENSXETG00000004231	1.570907236	3.92E-12	lrrc75b	leucine rich re	ENSG00000178026
65	ENSXETG00000010142	1.570619195	3.77E-05	nefl	neurofilamen	ENSG00000277586
66	ENSXETG00000005972	1.569374844	1.07E-35	ccnd2	cyclin D2	ENSG00000118971
67	ENSXETG00000021988	1.567446488	9.63E-07	dcdc2	doublecortin	ENSG00000146038
68	ENSXETG00000012727	1.566992086	1.45E-24	crebrf	CREB3 regula	ENSG00000164463
69	ENSXETG00000020676	1.561792756	3.85E-71	sytl1	synaptotagmi	ENSG00000142765
70	ENSXETG00000024478	1.561059582	0	crip1	cysteine-rich	ENSG00000213145,ENSG00000257341
71	ENSXETG00000009499	1.559986735	5.65E-260	slc39a5	solute carrier	ENSG00000139540
72	ENSXETG00000008929	1.555800539	1.33E-11	ENSXETG00000008929		ENSG00000143387
73	ENSXETG00000028021	1.53946539	1.09E-259	slc6a12	solute carrier	ENSG00000111181
74	ENSXETG00000018760	1.527473596	1.56E-14	atp5sl	distal membr	ENSG00000105341
75	ENSXETG00000027163	1.522887641	5.85E-28	znf383	zinc finger pr	ENSG00000184517
76	ENSXETG00000015501	1.522056369	0.000278667	ENSXETG00000015501		ENSG00000106608
77	ENSXETG00000023561	1.509720076	0	cndp2	CNDP dipepti	ENSG00000133313
78	ENSXETG00000002076	1.502161389	0.000376023	gdf3	growth differ	ENSG00000184344,ENSG00000223802,ENSG00000130283
79	ENSXETG00000004206	1.490733809	0	ENSXETG00000004206		ENSG00000100170,ENSG00000100191
80	ENSXETG00000016463	1.490494482	2.70E-157	eml2	echinoderm m	ENSG00000066629
81	ENSXETG00000002005	1.486487207	3.64E-137	gnat2	guanine nucle	ENSG00000134183
82	ENSXETG00000005739	1.485663736	1.17E-49	klf4	Kruppel-like f	ENSG00000136826
83	ENSXETG00000020238	1.485267469	0.000323739	agbl3	ATP/GTP bind	ENSG00000146856
84	ENSXETG00000012714	1.484597482	3.41E-88	arhgef37	Rho guanine	ENSG00000183111
85	ENSXETG00000031127	1.468854385	2.43E-05	ENSXETG00000031127		ENSG00000106853
86	ENSXETG00000020174	1.456048214	4.12E-07	ca8	carbonic anhy	ENSG00000178538
87	ENSXETG00000022606	1.451915338	3.72E-27	ENSXETG00000022606		ENSG00000160870,ENSG00000021461,ENSG00000106258,ENSG00000160868
88	ENSXETG00000017215	1.451621417	5.29E-05	rpgrip1	RPGR interact	ENSG00000092200
89	ENSXETG00000005319	1.449829492	7.65E-13	nccrp1	non-specific c	ENSG00000188505
90	ENSXETG00000000355	1.388061773	1.92E-50	cck	cholecystokin	ENSG00000187094
91	ENSXETG00000015619	1.378847542	0	slc6a19	solute carrier	ENSG00000174358
92	ENSXETG00000005868	1.378403092	0	cyp4v2		ENSG00000145476
93	ENSXETG00000008111	1.376678562	2.36E-44	cfap45	cilia and flage	ENSG00000213085
94	ENSXETG00000030824	1.373453886	8.10E-84	ENSXETG00000030824		ENSG00000180316
95	ENSXETG00000030740	1.372809136	0	ENSXETG00000030740		ENSG00000168060
96	ENSXETG00000030682	1.368470743	4.08E-58	ENSXETG00000030682		ENSG00000149485
97	ENSXETG00000026816	1.361092204	1.30E-31	ENSXETG00000026816		ENSG00000164893
98	ENSXETG00000025146	1.35359512	2.93E-19	tsen2	tRNA splicing	ENSG00000154743
99	ENSXETG00000024780	1.353558363	2.20E-52	pxmp2	peroxisomal	ENSG00000176894
100	ENSXETG00000023757	1.349913618	0	scd	stearoyl-CoA	ENSG00000099194
101	ENSXETG00000017977	1.346412042	8.57E-16	lzts3	leucine zipper	ENSG00000088899
102	ENSXETG00000010087	1.345950896	5.17E-46	kmt2a	lysine methyl	ENSG00000118058
103	ENSXETG00000000543	1.336737688	0	gldc	glycine decar	ENSG00000178445
104	ENSXETG00000030466	1.326781653	1.32E-12	ENSXETG00000030466		ENSG00000166484
105	ENSXETG00000015059	1.320428006	5.22E-05	znf385b	zinc finger pr	ENSG00000144331
106	ENSXETG00000018480	1.314155605	5.54E-285	rmdn2	regulator of m	ENSG00000115841
107	ENSXETG00000030511	1.30968918	0	ENSXETG00000030511		ENSG00000108244
108	ENSXETG00000030781	1.3072046	1.22E-10	IQCG		ENSG00000114473
109	ENSXETG00000015771	1.306408654	2.10E-205	haao	3-hydroxyant	ENSG00000162882
110	ENSXETG00000019506	1.300077333	6.06E-27	st6galnac2	ST6 (alpha-N-	ENSG00000070731
111	ENSXETG00000020454	1.293221816	0	krt8	keratin 8	ENSG00000170421
112	ENSXETG00000014927	1.285091719	0	ucp1	uncoupling pr	ENSG00000109424
113	ENSXETG00000016153	1.284304309	8.66E-21	pla2g3	phospholipas	ENSG00000100078
114	ENSXETG00000019578	1.279253558	0	vav2	vav guanine n	ENSG00000160293
115	ENSXETG00000013834	1.276205286	0.000801412	c17orf105	chromosome	ENSG00000231256
116	ENSXETG00000017818	1.270839906	1.90E-126	pof1b	POF1B, actin	ENSG00000124429
117	ENSXETG00000031284	1.268479427	0.000722537	ENSXETG00000031284		ENSG00000090512
118	ENSXETG00000006156	1.264499466	8.34E-07	oit3	oncoprotein i	ENSG00000138315
119	ENSXETG00000012599	1.262604895	1.21E-09	evpl	envoplakin	ENSG00000167880
120	ENSXETG00000010329	1.261420443	2.23E-113	decr2	2,4-dienoyl-C	ENSG00000242612
121	ENSXETG00000015966	1.260895814	2.72E-221	gcat	glycine C-acet	ENSG00000100116
122	ENSXETG00000012711	1.254521119	1.81E-13	ppargc1b	peroxisome p	ENSG00000155846
123	ENSXETG00000021547	1.254362833	6.93E-64	usp2	ubiquitin spe	ENSG00000036672
124	ENSXETG00000022768	1.252101317	1.84E-33	alpi.1	alkaline phos	ENSG00000163286,ENSG00000163283,ENSG00000163295
125	ENSXETG00000022357	1.240491925	1.26E-193	ddt	D-dopachrom	ENSG00000099974,ENSG00000099977
126	ENSXETG00000031042	1.239174647	0.000230079	FFAR1		ENSG00000126266
127	ENSXETG00000001148	1.236926138	0	mgam	maltase-gluco	ENSG00000090402
128	ENSXETG00000018756	1.23381022	1.11E-15	b3gnt6	UDP-GlcNAc:	ENSG00000177191
129	ENSXETG00000019004	1.229919279	0.001672575	myl7	myosin light c	ENSG00000106631
130	ENSXETG00000006053	1.228002872	0.00183321	slc25a45	solute carrier	ENSG00000162241
131	ENSXETG00000013957	1.215177878	2.27E-294	ldha	lactate dehyd	ENSG00000166796,ENSG00000171989,ENSG00000166800,ENSG00000134333
132	ENSXETG00000013304	1.212436685	1.27E-205	aldh6a1	aldehyde deh	ENSG00000119711
133	ENSXETG00000017085	1.211669532	2.93E-30	pkp1	plakophilin 1	ENSG00000081277
134	ENSXETG00000004704	1.20998748	7.10E-37	hsd11b2	hydroxysteroi	ENSG00000176387
135	ENSXETG00000019936	1.205156384	0	susd2	sushi domain	ENSG00000099994
136	ENSXETG00000003384	1.203045827	0.000169258	nags	N-acetylgluta	ENSG00000161653
137	ENSXETG00000008000	1.201886692	9.36E-54	hnf1b	HNF1 homeo	ENSG00000275410
138	ENSXETG00000001225	1.200681075	4.21E-60	mapre3	microtubule a	ENSG00000084764
139	ENSXETG00000009115	1.19813512	0	phyh	phytanoyl-Co	ENSG00000107537
140	ENSXETG00000025065	1.189271826	0.005325949	ENSXETG00000025065		ENSG00000138068
141	ENSXETG00000013688	1.177532833	1.31E-67	mbd2	methyl-CpG b	ENSG00000134046
142	ENSXETG00000001183	1.176942669	3.09E-219	ppt1	palmitoyl-pro	ENSG00000131238
143	ENSXETG00000019693	1.174880602	2.23E-05	xylt1	xylosyltransfe	ENSG00000103489
144	ENSXETG00000006704	1.173523529	6.78E-170	sigirr	single immun	ENSG00000185187
145	ENSXETG00000007460	1.173424445	0	xpnpep2	X-prolyl amin	ENSG00000122121
146	ENSXETG00000011901	1.168879831	0	slc2a5	solute carrier	ENSG00000197241,ENSG00000142583
147	ENSXETG00000012447	1.168059484	0	aldh3b2	aldehyde deh	ENSG00000006534,ENSG00000132746
148	ENSXETG00000012233	1.167184774	0	slc26a3.1	solute carrier	ENSG00000091138
149	ENSXETG00000000342	1.161202561	1.12E-56	herc6	HECT and RLD	ENSG00000138642,ENSG00000138646
150	ENSXETG00000024002	1.15862607	3.69E-16	b4galt6	UDP-Gal:beta	ENSG00000158470
151	ENSXETG00000008206	1.15531313	0	anxa4	annexin A4	ENSG00000196975
152	ENSXETG00000026901	1.154033264	6.51E-116	vrk3	vaccinia relat	ENSG00000105053
153	ENSXETG00000030472	1.153052631	0.001997024	ENSXETG00000030472		ENSG00000137177
154	ENSXETG00000003703	1.152753205	0	gamt	guanidinoace	ENSG00000130005
155	ENSXETG00000018469	1.150932315	2.53E-88	pgm2	phosphogluc	ENSG00000169299
156	ENSXETG00000005871	1.14835242	2.33E-32	fam149a	family with se	ENSG00000109794
157	ENSXETG00000001703	1.148151922	1.28E-22	neurl1b	neuralized E3	ENSG00000214357
158	ENSXETG00000010908	1.147416509	0.007295244	ENSXETG00000010908		ENSG00000240224,ENSG00000241635,ENSG00000244474,ENSG00000243135
159	ENSXETG00000002414	1.146737264	0	atp1b1	ATPase Na+/K	ENSG00000143153
160	ENSXETG00000023397	1.146139513	0	GPD1		ENSG00000167588
161	ENSXETG00000029187	1.146000982	1.08E-11	xtr-mir-192		ENSG00000207648
162	ENSXETG00000006911	1.145323523	1.89E-07	cbx7	chromobox 7	ENSG00000100307
163	ENSXETG00000026845	1.145135112	0.000459462	ENSXETG00000026845		ENSG00000138068
164	ENSXETG00000007703	1.145006601	1.93E-146	XB-GENE-986840	Putative orth	ENSG00000273554,ENSG00000130821
165	ENSXETG00000023348	1.144586029	5.06E-09	ENSXETG00000023348		ENSG00000106608
166	ENSXETG00000002109	1.143655009	5.20E-27	pgpep1l	pyroglutamyl	ENSG00000183571
167	ENSXETG00000007706	1.133398267	2.34E-62	plxnb3	plexin B3	ENSG00000198753
168	ENSXETG00000030834	1.133132931	0.00265693	ARHGEF33		ENSG00000214694
169	ENSXETG00000029116	1.131414069	0.005443995	xtr-mir-24b		ENSG00000276797
170	ENSXETG00000012655	1.128652542	6.93E-19	ENSXETG00000012655		ENSG00000182405
171	ENSXETG00000003301	1.127633659	2.45E-169	ttc39b	tetratricopep	ENSG00000155158
172	ENSXETG00000019955	1.122662746	9.41E-32	aff1	AF4/FMR2 fa	ENSG00000172493
173	ENSXETG00000007518	1.12249717	1.00E-45	cdca7	cell division c	ENSG00000144354
174	ENSXETG00000013276	1.122047627	4.73E-07	pcsk1	proprotein co	ENSG00000175426
175	ENSXETG00000016932	1.121461229	2.78E-203	pnp	purine nucleo	ENSG00000198805
176	ENSXETG00000017895	1.120991451	3.95E-11	exd1	exonuclease 3	ENSG00000178997
177	ENSXETG00000028035	1.120841732	1.90E-56	akap8l	A-kinase anch	ENSG00000011243
178	ENSXETG00000003533	1.114764369	1.05E-20	mutyh	mutY DNA gly	ENSG00000132781
179	ENSXETG00000016597	1.109384507	8.42E-68	fnip1	folliculin inter	ENSG00000217128
180	ENSXETG00000003382	1.101977935	9.15E-121	pyy	peptide YY	ENSG00000131096
181	ENSXETG00000015828	1.100330657	0.000428352	loxl4	lysyl oxidase l	ENSG00000138131
182	ENSXETG00000029154	1.100093388	0.010584351	xtr-mir-29c		ENSG00000275668
183	ENSXETG00000009816	1.096965905	6.40E-184	fkbp11	FK506 binding	ENSG00000134285
184	ENSXETG00000013262	1.096327594	1.15E-180	cast	calpastatin	ENSG00000153113
185	ENSXETG00000008822	1.095708528	5.46E-89	tkfc	triokinase/FM	ENSG00000149476
186	ENSXETG00000011646	1.095537517	1.83E-70	kri1	KRI1 homolog	ENSG00000129347
187	ENSXETG00000003478	1.094711766	0.009024974	gpr101	G protein-cou	ENSG00000165370
188	ENSXETG00000013877	1.09051102	1.53E-31	samd9l	sterile alpha m	ENSG00000205413,ENSG00000177409
189	ENSXETG00000013183	1.089045983	0.000352607	lmx1a	LIM homeobo	ENSG00000162761
190	ENSXETG00000004453	1.088117842	0.006270193	lgsn	lengsin, lens g	ENSG00000146166
191	ENSXETG00000023968	1.08554036	0	folr1	folate recepto	ENSG00000165457,ENSG00000110203,ENSG00000110195,ENSG00000183560
192	ENSXETG00000026585	1.083652268	1.65E-90	nudt4	nudix hydrola	ENSG00000196368,ENSG00000122824,ENSG00000173598
193	ENSXETG00000023076	1.081372682	2.81E-95	aspg	asparaginase	ENSG00000166183
194	ENSXETG00000020440	1.080599069	0.012661204	cdh12	cadherin 12, t	ENSG00000154162
195	ENSXETG00000021546	1.080567414	9.82E-246	cyp26b1	cytochrome P	ENSG00000003137
196	ENSXETG00000029906	1.079596422	0.010336588	SNORD97		ENSG00000238622
197	ENSXETG00000030365	1.075193968	2.84E-09	ENSXETG00000030365		ENSG00000149716
198	ENSXETG00000022452	1.073775558	0	ace2	angiotensin I	ENSG00000130234
199	ENSXETG00000001828	1.072508014	8.93E-233	gpat3	glycerol-3-ph	ENSG00000138678
200	ENSXETG00000009754	1.071967928	1.07E-299	idh3a	isocitrate deh	ENSG00000166411
201	ENSXETG00000022939	1.067430714	1.93E-129	dhfr	dihydrofolate	ENSG00000178700,ENSG00000228716
202	ENSXETG00000024055	1.06696746	7.20E-95	eif2ak1	eukaryotic tra	ENSG00000086232
203	ENSXETG00000003004	1.061808241	0	enpp7	ectonucleotid	ENSG00000182156
204	ENSXETG00000010814	1.061453592	0	alas1	5'-aminolevul	ENSG00000023330
205	ENSXETG00000018237	1.057941643	0.003439785	fosb	FBJ murine os	ENSG00000125740
206	ENSXETG00000017289	1.056169568	0	clcn2	chloride volta	ENSG00000114859
207	ENSXETG00000022908	1.055293487	0	tbc1d14	TBC1 domain	ENSG00000132405
208	ENSXETG00000000595	1.05285478	3.44E-27	cdc37l1	cell division c	ENSG00000106993
209	ENSXETG00000025262	1.051381318	0.013584576	apoh	apolipoprotei	ENSG00000091583
210	ENSXETG00000030591	1.047592424	0	entpd5		ENSG00000187097
211	ENSXETG00000030335	1.046775051	0.007640142	PKD2L1		ENSG00000107593
212	ENSXETG00000020235	1.046646306	0.014310993	stra8	stimulated by	ENSG00000146857
213	ENSXETG00000009948	1.045701425	5.83E-26	fam102b	family with se	ENSG00000162636
214	ENSXETG00000008008	1.04294888	2.79E-87	kiaa1324	KIAA1324	ENSG00000116299
215	ENSXETG00000003053	1.042850377	7.92E-185	nup50	nucleoporin 5	ENSG00000093000
216	ENSXETG00000002388	1.040634965	0.015489754	poln	polymerase (I	ENSG00000130997
217	ENSXETG00000003571	1.040089482	5.43E-119	adat1	adenosine de	ENSG00000065457
218	ENSXETG00000021539	1.032857213	0.008940542	prkg2	protein kinase	ENSG00000138669
219	ENSXETG00000017355	1.031995808	0	ppp3r1	protein phosp	ENSG00000188386
220	ENSXETG00000005077	1.03193399	0	nsa2	NSA2, ribosor	ENSG00000164346
221	ENSXETG00000027236	1.03032004	0	ENSXETG00000027236		ENSG00000099812
222	ENSXETG00000024073	1.026596553	1.57E-249	clic1	chloride intra	ENSG00000213719
223	ENSXETG00000010343	1.025141453	8.10E-84	wbscr22	BUD23, rRNA	ENSG00000071462
224	ENSXETG00000021876	1.023066873	1.39E-69	acsbg2	acyl-CoA synt	ENSG00000130377
225	ENSXETG00000017285	1.020872838	6.00E-14	ece2	endothelin co	ENSG00000145194
226	ENSXETG00000008034	1.020264486	0	ENSXETG00000008034		ENSG00000144410
227	ENSXETG00000006380	1.01862406	1.31E-39	ereg	epiregulin	ENSG00000124882
228	ENSXETG00000008102	1.018237592	4.29E-153	capn5		ENSG00000149260
229	ENSXETG00000026876	1.018164243	0	plec	plectin	ENSG00000178209
230	ENSXETG00000006556	1.018039911	3.05E-61	trim14	tripartite mot	ENSG00000106785
231	ENSXETG00000015992	1.016970313	1.34E-93	slc2a15a	solute carrier	ENSG00000109667
232	ENSXETG00000002556	1.016693831	0.019400575	slc45a2	solute carrier	ENSG00000164175
233	ENSXETG00000012110	1.015527084	0.01035716	rhbdl1	rhomboid, ve	ENSG00000103269
234	ENSXETG00000007140	1.014751879	0	gpt2	glutamic pyru	ENSG00000167701
235	ENSXETG00000003321	1.013689959	0	XB-GENE-5829341	hypothetical	ENSG00000143954,ENSG00000172016,ENSG00000172023,ENSG00000115386
236	ENSXETG00000008675	1.013680256	7.93E-168	pxk	PX domain co	ENSG00000168297

237	ENSXETG00000024519	-1.922327328	4.15E-14	ENSXETG00000024519		ENSG00000242419
238	ENSXETG00000006535	-1.914668647	2.40E-12	prickle2	prickle planar	ENSG00000163637
239	ENSXETG00000001967	-1.913943835	2.55E-180	mdk	midkine	ENSG00000110492
240	ENSXETG00000005430	-1.909748493	3.55E-12	slc12a4	solute carrier	ENSG00000124067
241	ENSXETG00000015542	-1.905859685	3.56E-06	ccdc78	coiled-coil do	ENSG00000162004
242	ENSXETG00000027311	-1.901948986	1.35E-57	hebp1	heme binding	ENSG00000013583
243	ENSXETG00000030029	-1.900980822	2.30E-06	DNAH7		ENSG00000114841
244	ENSXETG00000023109	-1.900293614	1.19E-11	adamtsl1	ADAMTS like	ENSG00000178031
245	ENSXETG00000009063	-1.8992702	2.23E-08	spon1	spondin 1, ext	ENSG00000262655
246	ENSXETG00000015231	-1.896136415	3.25E-10	sulf1	sulfatase 1	ENSG00000137573
247	ENSXETG00000012500	-1.894916884	1.64E-20	slc16a5	solute carrier	ENSG00000170190
248	ENSXETG00000022341	-1.894425004	0	col5a1	collagen, type	ENSG00000130635
249	ENSXETG00000006932	-1.892597307	6.98E-20	cdh2	cadherin 2	ENSG00000170558
250	ENSXETG00000026165	-1.889624787	5.55E-27	bbs1	Bardet-Biedl s	ENSG00000256349,ENSG00
251	ENSXETG00000025687	-1.882971938	4.46E-06	ENSXETG00000025687		ENSG00000188486
252	ENSXETG00000022538	-1.882891584	3.56E-06	adam12	ADAM metall	ENSG00000148848
253	ENSXETG00000020557	-1.876887025	2.87E-26	tbx2	T-box 2	ENSG00000121068
254	ENSXETG00000020971	-1.876582586	2.16E-10	robo1	roundabout g	ENSG00000169855
255	ENSXETG00000004415	-1.875150302	6.32E-06	ENSXETG00000004415		ENSG00000170426,ENSG00000139547,ENSG00000025423
256	ENSXETG00000004773	-1.8734869	4.10E-08	col9a2	collagen, type	ENSG00000049089
257	ENSXETG00000031309	-1.872390725	4.65E-28	rab31		ENSG00000168461
258	ENSXETG00000003340	-1.871932397	1.68E-83	f2rl2	coagulation fa	ENSG00000164220
259	ENSXETG00000009355	-1.871575117	8.15E-37	smarca4	SWI/SNF relat	ENSG00000127616
260	ENSXETG00000023240	-1.868750612	3.91E-06	cdhr3	cadherin relat	ENSG00000128536
261	ENSXETG00000002421	-1.867890894	4.09E-06	ccdc181	coiled-coil do	ENSG00000117477
262	ENSXETG00000006578	-1.865782784	2.52E-23	efnb1	ephrin-B1	ENSG00000090776
263	ENSXETG00000015018	-1.863455101	1.37E-23	fkbp7	FK506 binding	ENSG00000079150
264	ENSXETG00000026822	-1.860568883	6.74E-06	slc19a3		ENSG00000135917
265	ENSXETG00000007071	-1.860231026	3.25E-08	bmp5	bone morpho	ENSG00000112175
266	ENSXETG00000008524	-1.857986411	1.57E-20	tacr1	tachykinin rec	ENSG00000115353
267	ENSXETG00000006041	-1.853014908	1.48E-06	fut6	fucosyltransfe	ENSG00000156413,ENSG00000171124,ENSG00000130383
268	ENSXETG00000020318	-1.85126603	0	col1a2	collagen type	ENSG00000164692
269	ENSXETG00000011728	-1.851192504	4.98E-55	naalad2	N-acetylated	ENSG00000077616
270	ENSXETG00000004529	-1.850085393	1.05E-07	tnfaip6	TNF alpha ind	ENSG00000123610
271	ENSXETG00000002137	-1.849426529	3.77E-07	scara3	scavenger rec	ENSG00000168077
272	ENSXETG00000012934	-1.84702303	1.38E-175	bgn	biglycan	ENSG00000182492
273	ENSXETG00000016079	-1.84670188	1.11E-40	agtr1	angiotensin II	ENSG00000144891
274	ENSXETG00000012988	-1.845671358	4.51E-08	arnt2	aryl hydrocarb	ENSG00000172379
275	ENSXETG00000001565	-1.843733646	0	col4a5	collagen, type	ENSG00000188153
276	ENSXETG00000013193	-1.840267641	8.35E-06	slc35a3.1	solute carrier	ENSG00000117620
277	ENSXETG00000015154	-1.840013695	5.32E-09	htra4	HtrA serine pe	ENSG00000169495
278	ENSXETG00000023144	-1.839992188	7.36E-26	mfap3l	microfibril ass	ENSG00000198948
279	ENSXETG00000015417	-1.839150577	1.22E-25	cpz	carboxypeptic	ENSG00000109625
280	ENSXETG00000019030	-1.836404907	1.09E-13	loxl3	lysyl oxidase l	ENSG00000019169
281	ENSXETG00000007336	-1.83065857	1.03E-49	lama4	laminin subur	ENSG00000112769
282	ENSXETG00000022281	-1.823348456	7.24E-15	pcdh7	protocadherin	ENSG00000169851
283	ENSXETG00000006627	-1.822238485	1.17E-05	cdh13	cadherin 13	ENSG00000140945
284	ENSXETG00000010955	-1.819134528	1.16E-05	sox21	SRY-box 21	ENSG00000125285
285	ENSXETG00000017780	-1.818539384	1.96E-09	fez1	fasciculation a	ENSG00000149557
286	ENSXETG00000010141	-1.815264574	1.10E-06	lrch2	leucine-rich re	ENSG00000130224
287	ENSXETG00000016612	-1.812307758	1.12E-05	gnrhr	gonadotropin	ENSG00000109163
288	ENSXETG00000000401	-1.807529039	1.30E-24	pdzrn3	PDZ domain c	ENSG00000121440
289	ENSXETG00000015929	-1.807365315	2.87E-09	gxylt2	glucoside xylo	ENSG00000172986
290	ENSXETG00000003734	-1.805761674	4.67E-138	myof	myoferlin	ENSG00000138119
291	ENSXETG00000025411	-1.802906087	2.19E-14	gja1	gap junction p	ENSG00000152661
292	ENSXETG00000011315	-1.801742828	1.46E-38	adgrf1	adhesion G pr	ENSG00000069122
293	ENSXETG00000017770	-1.801683005	1.55E-05	rlbp1	retinaldehyde	ENSG00000140522
294	ENSXETG00000003539	-1.801624103	1.64E-10	dydc1	DPY30 domai	ENSG00000133665,ENSG00000170788
295	ENSXETG00000005481	-1.801031367	1.94E-07	trpc6	transient rece	ENSG00000137672
296	ENSXETG00000016345	-1.80035651	3.74E-146	myh10	myosin, heav	ENSG00000133026
297	ENSXETG00000002288	-1.798280459	1.93E-61	fkbp10	FK506 binding	ENSG00000141756
298	ENSXETG00000003124	-1.797664125	1.01E-46	rhobtb1	Rho related B	ENSG00000072422
299	ENSXETG00000017416	-1.796076493	1.59E-05	fam92b	family with se	ENSG00000153789
300	ENSXETG00000021097	-1.794825655	7.78E-06	COL25A1		ENSG00000188517
301	ENSXETG00000013742	-1.794571849	5.37E-86	ndrg3	NDRG family	ENSG00000103034
302	ENSXETG00000022798	-1.791090048	5.53E-29	sostdc1	sclerostin dor	ENSG00000171243
303	ENSXETG00000012154	-1.789357812	7.12E-06	ENSXETG00000012154		ENSG00000226321
304	ENSXETG00000017044	-1.78914509	1.67E-34	ENSXETG00000017044		ENSG00000169876,ENSG00000169894,ENSG00000205277
305	ENSXETG00000006965	-1.787714168	7.90E-94	pxdn	peroxidasin	ENSG00000130508
306	ENSXETG00000018922	-1.787560718	2.02E-12	tmem56	transmembra	ENSG00000152078,ENSG00000271092
307	ENSXETG00000012279	-1.786938151	1.23E-106	lamb1	laminin subur	ENSG00000091136
308	ENSXETG00000020679	-1.78139626	9.20E-06	pitpnm3	PITPNM famil	ENSG00000091622
309	ENSXETG00000004298	-1.778627374	8.91E-11	pde1b	phosphodiest	ENSG00000123360
310	ENSXETG00000011506	-1.776312929	1.28E-06	C21orf58	chromosome	ENSG00000160298
311	ENSXETG00000004957	-1.77542292	4.22E-08	arhgap28	Rho GTPase a	ENSG00000088756
312	ENSXETG00000030131	-1.771600344	2.16E-05	KCNT2		ENSG00000162687
313	ENSXETG00000010536	-1.771587018	1.32E-195	bmp1	bone morpho	ENSG00000168487
314	ENSXETG00000004516	-1.77065155	2.77E-16	ccdc88a	coiled-coil do	ENSG00000115355
315	ENSXETG00000015989	-1.7667098	5.79E-40	frem2	FRAS1 related	ENSG00000150893
316	ENSXETG00000004470	-1.765338203	2.67E-06	cfap157	cilia and flage	ENSG00000160401
317	ENSXETG00000012653	-1.764953898	2.43E-06	irx2	iroquois home	ENSG00000170561
318	ENSXETG00000000723	-1.763531348	1.96E-23	nacc2	NACC family r	ENSG00000148411
319	ENSXETG00000009497	-1.763068736	3.68E-19	adamts10	ADAM metall	ENSG00000142303
320	ENSXETG00000005339	-1.762763418	4.80E-41	ankrd9	ankyrin repea	ENSG00000156381
321	ENSXETG00000019577	-1.761724877	5.49E-07	tekt3	tektin 3	ENSG00000125409
322	ENSXETG00000024110	-1.760729042	2.61E-85	cfi	complement f	ENSG00000205403
323	ENSXETG00000020467	-1.759715413	1.62E-39	cdh11	cadherin 11	ENSG00000140937
324	ENSXETG00000019051	-1.756626478	3.11E-247	klf9	Kruppel-like f	ENSG00000119138
325	ENSXETG00000010924	-1.753880706	1.22E-52	slc44a4	solute carrier	ENSG00000204385
326	ENSXETG00000003374	-1.752293849	0	col1a1	collagen, type	ENSG00000108821
327	ENSXETG00000003598	-1.749998547	2.98E-12	angpt1	angiopoietin 1	ENSG00000154188
328	ENSXETG00000007111	-1.749119763	8.91E-53	ednra	endothelin re	ENSG00000151617
329	ENSXETG00000007649	-1.747938273	8.44E-06	c11orf87		ENSG00000185742
330	ENSXETG00000019291	-1.742714327	5.44E-17	glb1	galactosidase	ENSG00000163521
331	ENSXETG00000005331	-1.74162835	4.30E-33	mrc2	mannose rece	ENSG00000011028
332	ENSXETG00000013358	-1.736153906	1.73E-34	abi3bp	ABI family me	ENSG00000154175
333	ENSXETG00000020160	-1.733758606	7.03E-85	pros1	protein S	ENSG00000184500
334	ENSXETG00000016388	-1.72826081	1.31E-06	foxl1	forkhead box	ENSG00000176678
335	ENSXETG00000019797	-1.727633488	1.33E-11	hapln1	hyaluronan ar	ENSG00000145681
336	ENSXETG00000012756	-1.724355209	3.90E-12	ebf4	early B-cell fa	ENSG00000088882
337	ENSXETG00000007330	-1.723968835	0	hyal2	hyaluronoglu	ENSG00000068001
338	ENSXETG00000007614	-1.722425701	3.26E-65	epha4	EPH receptor	ENSG00000116106
339	ENSXETG00000012198	-1.720843608	1.51E-242	nid2	nidogen 2	ENSG00000087303
340	ENSXETG00000013283	-1.718906438	1.03E-08	wfdc1	WAP four-dis	ENSG00000103175
341	ENSXETG00000021861	-1.715073547	4.03E-05	gdf11.1	growth differe	ENSG00000135414
342	ENSXETG00000000522	-1.713912918	0	clca4	chloride chan	ENSG00000016602,ENSG00000016490,ENSG00000137975
343	ENSXETG00000021272	-1.713046888	2.62E-08	znf385a	zinc finger pro	ENSG00000161642
344	ENSXETG00000004290	-1.710933826	5.33E-07	mtcl1	microtubule c	ENSG00000168502
345	ENSXETG00000003154	-1.701698543	3.91E-50	colec12	collectin subf	ENSG00000158270
346	ENSXETG00000021786	-1.701369882	2.88E-05	ENSXETG00000021786		ENSG00000158764,ENSG00000179914
347	ENSXETG00000000473	-1.701123379	1.47E-34	bin1	bridging integ	ENSG00000136717
348	ENSXETG00000019353	-1.700872512	1.02E-11	cadm3	cell adhesion	ENSG00000162706
349	ENSXETG00000014097	-1.699939382	6.82E-69	rarres1	retinoic acid r	ENSG00000118849
350	ENSXETG00000021122	-1.698522396	4.25E-186	nt5c3a	5'-nucleotidas	ENSG00000122643
351	ENSXETG00000031311	-1.698217278	4.71E-05	ENSXETG00000031311		ENSG00000171931,ENSG00000241322
352	ENSXETG00000027815	-1.697095168	2.71E-13	vcan	versican	ENSG00000038427
353	ENSXETG00000011158	-1.695727154	4.41E-28	pcdh18	protocadherin	ENSG00000189184
354	ENSXETG00000009114	-1.694362342	4.27E-14	ucma	upper zone of	ENSG00000165623
355	ENSXETG00000018919	-1.693637772	1.83E-150	cnn3	calponin 3, ac	ENSG00000117519
356	ENSXETG00000012587	-1.692106522	2.78E-20	aoc2	amine oxidase	ENSG00000131471,ENSG00000131480
357	ENSXETG00000007579	-1.691823026	9.06E-19	pla2r1	phospholipase	ENSG00000153246
358	ENSXETG00000008652	-1.690103948	2.88E-10	fam107a	family with se	ENSG00000168309
359	ENSXETG00000019257	-1.686243846	3.11E-09	rab34	RAB34, memb	ENSG00000109113
360	ENSXETG00000025504	-1.683632374	8.10E-227	tmem150b	transmembra	ENSG00000180061
361	ENSXETG00000020173	-1.681505561	5.25E-16	epha3	EPH receptor	ENSG00000044524
362	ENSXETG00000025251	-1.681060909	5.78E-05	ENSXETG00000025251		ENSG00000007174
363	ENSXETG00000010707	-1.680339732	0	sparc	secreted prot	ENSG00000113140
364	ENSXETG00000016904	-1.680289579	1.89E-38	hpgd	15-hydroxypr	ENSG00000164120
365	ENSXETG00000005931	-1.679820543	1.63E-54	ptpru	protein tyrosi	ENSG00000060656
366	ENSXETG00000012789	-1.677793487	3.39E-31	abhd12	abhydrolase d	ENSG00000100997
367	ENSXETG00000021153	-1.677237217	5.52E-05	grp	gastrin releas	ENSG00000134443
368	ENSXETG00000001073	-1.674458491	1.56E-06	gcnt2	glucosaminyl	ENSG00000111846
369	ENSXETG00000007569	-1.673133666	7.43E-50	hapln3	hyaluronan ar	ENSG00000140511
370	ENSXETG00000007501	-1.671747146	1.55E-70	fscn1	fascin actin-b	ENSG00000075618
371	ENSXETG00000011757	-1.667319345	2.55E-11	COL5A3		ENSG00000080573
372	ENSXETG00000008431	-1.666500701	6.56E-54	ltbp3	latent transfo	ENSG00000168056
373	ENSXETG00000020893	-1.665968487	5.78E-07	spag17	sperm associa	ENSG00000155761
374	ENSXETG00000015025	-1.663458156	2.58E-05	susd4	sushi domain	ENSG00000143502
375	ENSXETG00000012308	-1.662961281	6.93E-11	kcng1	potassium cha	ENSG00000026559
376	ENSXETG00000012186	-1.662433861	4.32E-15	ccnj	cyclin J	ENSG00000107443
377	ENSXETG00000006000	-1.661964252	6.20E-33	pkdcc.2	protein kinase	ENSG00000162878
378	ENSXETG00000011756	-1.661415969	0	ENSXETG00000011756	cytochrome P	ENSG00000160870,ENSG00000021461,ENSG00000106258,ENSG00000160868
379	ENSXETG00000003663	-1.659803057	9.31E-116	pcdh10	protocadherin	ENSG00000240184
380	ENSXETG00000006632	-1.659458332	5.01E-16	grhl2	grainyhead lik	ENSG00000083307
381	ENSXETG00000024105	-1.658845705	6.88E-07	negr1	neuronal grov	ENSG00000172260
382	ENSXETG00000031136	-1.658634539	7.18E-07	tmem35a		ENSG00000126950
383	ENSXETG00000015130	-1.656559662	2.42E-23	cacna1s	calcium chan	ENSG00000081248
384	ENSXETG00000010851	-1.656043598	2.52E-09	kank4	KN motif and	ENSG00000132854
385	ENSXETG00000021329	-1.655089342	1.95E-50	slc39a8	solute carrier	ENSG00000138821
386	ENSXETG00000019659	-1.65504406	2.21E-06	ldlrad4	low density li	ENSG00000168675
387	ENSXETG00000010725	-1.65416679	7.11E-42	serpinh1	serpin peptid	ENSG00000149257
388	ENSXETG00000022131	-1.653449698	4.99E-14	chst2	carbohydrate	ENSG00000175040
389	ENSXETG00000009118	-1.652779394	1.50E-21	frmd4a	FERM domain	ENSG00000151474
390	ENSXETG00000003825	-1.652133502	1.71E-05	nme5	NME/NM23 f	ENSG00000112981
391	ENSXETG00000001154	-1.649837215	7.85E-27	gpr153	G protein-cou	ENSG00000158292
392	ENSXETG00000030932	-1.64836975	1.95E-05	ptgfr		ENSG00000122420
393	ENSXETG00000012588	-1.647902178	4.43E-217	aoc3	amine oxidase	ENSG00000131471,ENSG00000131480
394	ENSXETG00000005944	-1.647336053	1.17E-09	rab7b	RAB7B, meml	ENSG00000276600
395	ENSXETG00000005761	-1.645914647	4.98E-13	col14a1	collagen, type	ENSG00000187955
396	ENSXETG00000010706	-1.644586302	6.82E-19	myo7a	myosin 7a	ENSG00000137474
397	ENSXETG00000022859	-1.642699678	6.57E-12	lrrc8e	leucine rich re	ENSG00000171017
398	ENSXETG00000005160	-1.641777203	4.22E-15	3-Mar	membrane as	ENSG00000173926
399	ENSXETG00000023413	-1.641098618	3.62E-20	tubb3	tubulin beta 3	ENSG00000198211,ENSG00000258947
400	ENSXETG00000001587	-1.639776962	1.80E-07	fgf2	fibroblast gro	ENSG00000138685
401	ENSXETG00000023297	-1.638087269	6.36E-06	fabp7	fatty acid bin	ENSG00000164434
402	ENSXETG00000020413	-1.636226896	1.70E-29	fkbp9	FK506 binding	ENSG00000122642
403	ENSXETG00000012730	-1.635920046	7.36E-194	stc2	stanniocalcin	ENSG00000113739
404	ENSXETG00000013794	-1.635055702	1.49E-09	dzank1	double zinc ri	ENSG00000089091
405	ENSXETG00000002637	-1.634921346	1.98E-90	col4a1	collagen, type	ENSG00000187498
406	ENSXETG00000003300	-1.634640294	3.29E-22	FREM1		ENSG00000164946
407	ENSXETG00000006338	-1.634292061	7.35E-09	thbs3	thrombospon	ENSG00000169231
408	ENSXETG00000010861	-1.633968695	6.03E-06	aqp9	aquaporin 9	ENSG00000103569
409	ENSXETG00000017916	-1.632934748	2.61E-15	galnt16	polypeptide N	ENSG00000100626
410	ENSXETG00000025120	-1.631737987	3.36E-17	c1qa	complement c	ENSG00000173372
411	ENSXETG00000026601	-1.630585228	7.20E-06	gsto1	glutathione S	ENSG00000065621,ENSG00000148834
412	ENSXETG00000030921	-1.629682052	5.21E-07	KIRREL1		ENSG00000183853
413	ENSXETG00000025239	-1.629232295	2.19E-55	abhd1	abhydrolase d	ENSG00000143994
414	ENSXETG00000021839	-1.62601067	1.22E-06	adamts15	ADAM metall	ENSG00000166106
415	ENSXETG00000019175	-1.625839332	1.83E-25	hsph1	heat shock pr	ENSG00000120694
416	ENSXETG00000022658	-1.624529266	9.85E-30	gtf2a1l	general transc	ENSG00000243244,ENSG00000068781
417	ENSXETG00000027390	-1.623595157	7.57E-05	znf474	zinc finger pro	ENSG00000164185
418	ENSXETG00000007393	-1.622424952	1.57E-50	gpnmb	glycoprotein	ENSG00000136235
419	ENSXETG00000013777	-1.622128484	6.33E-05	ENSXETG00000013777		ENSG00000188486
420	ENSXETG00000026274	-1.621945283	5.17E-05	ENSXETG00000026274		ENSG00000180644
421	ENSXETG00000029971	-1.621467219	0.000113074	DPF1		ENSG00000011332
422	ENSXETG00000016031	-1.620977092	1.25E-09	edar	ectodysplasin	ENSG00000135960
423	ENSXETG00000016084	-1.620722302	1.31E-19	bnc1	basonuclin 1	ENSG00000169594
424	ENSXETG00000006175	-1.620434742	1.49E-11	gjc2	gap junction p	ENSG00000198835
425	ENSXETG00000018781	-1.618190432	8.78E-15	avpr1a	arginine vaso	ENSG00000166148
426	ENSXETG00000017925	-1.615780464	1.67E-11	adamts8	ADAM metall	ENSG00000134917
427	ENSXETG00000025253	-1.615168804	1.73E-05	ENSXETG00000025253		ENSG00000215704,ENSG00000142615
428	ENSXETG00000026772	-1.613732221	2.27E-174	rhob	ras homolog f	ENSG00000143878
429	ENSXETG00000016220	-1.613725113	2.13E-70	nid1	nidogen 1	ENSG00000116962
430	ENSXETG00000006797	-1.613135024	2.05E-30	prickle1	prickle planar	ENSG00000139174
431	ENSXETG00000002725	-1.611413164	0	bpnt1	3'(2'), 5'-bisph	ENSG00000162813
432	ENSXETG00000008630	-1.610371509	0.000122617	wdr63	WD repeat do	ENSG00000162643
433	ENSXETG00000002904	-1.609720702	5.04E-09	chd5	chromodoma	ENSG00000116254
434	ENSXETG00000025040	-1.608179776	4.92E-07	celsr2	cadherin EGF	ENSG00000143126
435	ENSXETG00000019306	-1.607075443	0	lct.2	lactase, gene	ENSG00000115850
436	ENSXETG00000004522	-1.606628091	1.12E-23	lypd6	LY6/PLAUR do	ENSG00000187123
437	ENSXETG00000016157	-1.60658015	2.42E-08	znf219	zinc finger pro	ENSG00000165804
438	ENSXETG00000018039	-1.60603968	1.02E-06	cntfr	ciliary neurot	ENSG00000122756
439	ENSXETG00000002987	-1.604105896	3.56E-54	slc44a5	solute carrier	ENSG00000137968
440	ENSXETG00000024078	-1.603956997	3.45E-10	hsp70	heat shock 70	ENSG00000173110,ENSG00000204389,ENSG00000204390,ENSG00000204388
441	ENSXETG00000023615	-1.603415425	5.18E-12	fndc3b	fibronectin ty	ENSG00000075420
442	ENSXETG00000007786	-1.602760968	1.00E-90	gdpd1	glycerophosp	ENSG00000153982
443	ENSXETG00000010910	-1.602040626	1.66E-23	sh3bp4	SH3-domain b	ENSG00000130147
444	ENSXETG00000018391	-1.601722346	5.75E-22	sema6d	semaphorin 6	ENSG00000137872
445	ENSXETG00000010609	-1.60154419	0.000135973	FAM180A		ENSG00000189320
446	ENSXETG00000012255	-1.599294185	0.000129009	dhrs7c	dehydrogena	ENSG00000184544
447	ENSXETG00000025372	-1.594896804	0	myc	MYC proto-or	ENSG00000136997
448	ENSXETG00000014993	-1.594840878	4.95E-37	kcp	kielin/chordin	ENSG00000135253
449	ENSXETG00000021265	-1.594368127	2.00E-59	itga5	integrin subu	ENSG00000161638
450	ENSXETG00000008651	-1.59394685	1.60E-05	ttll7	tubulin tyrosi	ENSG00000137941
451	ENSXETG00000012297	-1.59263995	8.25E-11	fam65c	RIPOR family	ENSG00000042062
452	ENSXETG00000024414	-1.590548108	0.000147698	dio3	deiodinase, io	ENSG00000197406
453	ENSXETG00000025359	-1.589625493	0.000147646	spef2	sperm flagella	ENSG00000152582
454	ENSXETG00000019700	-1.589079688	8.00E-13	slc16a3	solute carrier	ENSG00000141526
455	ENSXETG00000005258	-1.588652721	3.06E-07	oscp1	organic solute	ENSG00000116885
456	ENSXETG00000030788	-1.588510012	4.65E-34	vipr2		ENSG00000106018
457	ENSXETG00000019636	-1.58797064	1.59E-05	glt8d2	glycosyltransf	ENSG00000120820
458	ENSXETG00000021148	-1.586744113	8.54E-08	znf532	zinc finger pro	ENSG00000074657
459	ENSXETG00000003565	-1.585284764	2.72E-92	foxf1	forkhead box	ENSG00000103241
460	ENSXETG00000011188	-1.584230468	8.71E-28	prph	peripherin	ENSG00000135406
461	ENSXETG00000010680	-1.581628914	0.000131185	shisa2	shisa family m	ENSG00000180730
462	ENSXETG00000023080	-1.581018758	2.32E-37	kif26a	kinesin family	ENSG00000066735
463	ENSXETG00000013214	-1.580979131	3.18E-102	vash1	vasohibin 1	ENSG00000071246
464	ENSXETG00000027078	-1.57934925	1.92E-17	ptdss2		ENSG00000174915
465	ENSXETG00000007776	-1.579014809	4.12E-71	sfrp1	secreted frizz	ENSG00000104332
466	ENSXETG00000027545	-1.57894485	0.000165456	cldn6.1	claudin 6, ger	ENSG00000165215,ENSG00000189143
467	ENSXETG00000015681	-1.575716442	5.70E-80	upp1	uridine phosp	ENSG00000183696
468	ENSXETG00000002568	-1.575435665	2.80E-08	numbl	numb homolo	ENSG00000105245
469	ENSXETG00000007698	-1.57228132	2.26E-06	dusp9	dual specificit	ENSG00000130829
470	ENSXETG00000021730	-1.570196574	1.21E-20	pappa	pappalysin 1	ENSG00000182752
471	ENSXETG00000013748	-1.568794033	6.01E-55	cfp	complement f	ENSG00000126759
472	ENSXETG00000005729	-1.567969811	0.000136797	ENSXETG00000005729		ENSG00000010072
473	ENSXETG00000000988	-1.563159371	4.05E-12	stard9	StAR related l	ENSG00000159433
474	ENSXETG00000011734	-1.562974574	0.000113281	nox4	NADPH oxida	ENSG00000086991
475	ENSXETG00000013500	-1.562316537	1.48E-09	f2rl3	F2R like thron	ENSG00000127533

237	ENSXETG00000020252	1.013501186	6.69E-42	plekhn1	pleckstrin hor	ENSG00000187583
238	ENSXETG00000005811	1.013449047	1.05E-40	trpv2	transient rece	ENSG00000187688
239	ENSXETG00000019224	1.012198667	6.31E-59	ADTRP		ENSG00000111863
240	ENSXETG00000015461	1.011544794	1.01E-129	nedd9	neural precur	ENSG00000111859
241	ENSXETG00000030641	1.009824399	1.00E-30	ENSXETG00000030641		ENSG00000088280
242	ENSXETG00000000985	1.009779834	1.29E-17	mfsd4a	major facilitat	ENSG00000174514
243	ENSXETG00000019998	1.009660897	9.87E-66	acot11	acyl-CoA thio	ENSG00000162390
244	ENSXETG00000018610	1.009314209	0	gk	glycerol kinas	ENSG00000196475,ENSG00000198814
245	ENSXETG00000021160	1.007441762	2.34E-59	znf395	zinc finger pro	ENSG00000186918
246	ENSXETG00000019276	1.005113888	2.35E-253	dnpep	aspartyl amin	ENSG00000123992
247	ENSXETG00000007988	1.004289762	3.14E-111	hacd2	3-hydroxyacy	ENSG00000206527
248	ENSXETG00000010788	1.003700625	1.90E-37	mbp	myelin basic p	ENSG00000197971
249	ENSXETG00000004890	1.001391948	2.59E-17	ugt1a6	UDP glucuron	ENSG00000240224,ENSG00000241635,ENSG00000244474,ENSG00000243135
250	ENSXETG00000015696	1.000479296	1.39E-110	peli1	pellino E3 ubi	ENSG00000139946

476	ENSXETG00000015440	-1.556110188	2.81E-05	edn1	endothelin 1	ENSG00000078401
477	ENSXETG00000016868	-1.555075698	2.55E-05	kctd15	potassium ch	ENSG00000153885
478	ENSXETG00000031238	-1.555051871	0.000196848	LRRC43		ENSG00000158113
479	ENSXETG00000025214	-1.554627164	0	bnip3	BCL2/adenov	ENSG00000176171
480	ENSXETG00000010075	-1.552989965	6.40E-45	hyou1	hypoxia up-re	ENSG00000149428
481	ENSXETG00000019498	-1.552141764	6.58E-11	fam198b	family with se	ENSG00000164125
482	ENSXETG00000020288	-1.551450233	6.08E-16	ntn3	netrin 3	ENSG00000162068
483	ENSXETG00000021538	-1.54998905	4.33E-09	bmp3	bone morpho	ENSG00000152785
484	ENSXETG00000011189	-1.549759914	1.64E-16	gli2	GLI family zin	ENSG00000074047
485	ENSXETG00000011290	-1.548869491	5.65E-20	rbpms	RNA binding p	ENSG00000157110
486	ENSXETG00000010779	-1.54859018	0.000129193	spata4	spermatogen	ENSG00000150628
487	ENSXETG00000014890	-1.548086487	6.04E-24	cxcr4	C-X-C motif ch	ENSG00000121966
488	ENSXETG00000007165	-1.544817336	8.08E-23	myo10.2	myosin 10, ge	ENSG00000068137
489	ENSXETG00000026058	-1.544009073	1.85E-48	cnfn.1	cornifelin, ge	ENSG00000105427
490	ENSXETG00000014465	-1.543932384	1.09E-16	kdelc2	KDEL motif co	ENSG00000178202
491	ENSXETG00000019927	-1.543042746	6.60E-11	crabp2	cellular retino	ENSG00000143320
492	ENSXETG00000011486	-1.542969039	7.71E-227	col6a1	collagen, type	ENSG00000142156
493	ENSXETG00000023495	-1.541323763	2.09E-27	rap2a	RAP2A, memb	ENSG00000125249
494	ENSXETG00000019430	-1.540899964	3.57E-07	lrrc32.1	leucine rich re	ENSG00000137507
495	ENSXETG00000008840	-1.537370464	2.93E-43	fzd2	frizzled class r	ENSG00000180340
496	ENSXETG00000008062	-1.533856828	6.23E-10	gpx7	glutathione p	ENSG00000116157
497	ENSXETG00000010462	-1.533604117	4.02E-137	rgs5	regulator of G	ENSG00000143248
498	ENSXETG00000006171	-1.532976587	1.58E-101	higd1a	HIG1 hypoxia	ENSG00000181061,ENSG00000280571
499	ENSXETG00000021161	-1.53200651	9.40E-12	ccbe1	collagen and c	ENSG00000183287
500	ENSXETG00000019369	-1.531208634	9.29E-75	XB-GENE-5914997	MGC108147 p	ENSG00000132703,ENSG00000132693
501	ENSXETG00000004609	-1.530489667	4.39E-07	fibin	fin bud initiat	ENSG00000176971
502	ENSXETG00000005203	-1.530270104	1.60E-51	c4a	complement c	ENSG00000224389,ENSG00000244731
503	ENSXETG00000026964	-1.528741879	1.19E-06	msmb.1	microseminop	ENSG00000263639
504	ENSXETG00000012835	-1.52688476	3.40E-06	abca9	ATP binding c	ENSG00000154263,ENSG00000141338,ENSG00000154262,ENSG00000154258
505	ENSXETG00000018688	-1.526877267	4.13E-05	ENSXETG00000018688		ENSG00000143127
506	ENSXETG00000010437	-1.525646764	0.000147956	ccdc81	coiled-coil do	ENSG00000149201
507	ENSXETG00000009697	-1.524446668	0.00019506	cfap61	cilia and flage	ENSG00000089101
508	ENSXETG00000010136	-1.524328969	4.75E-09	homer3	homer scaffol	ENSG00000051128
509	ENSXETG00000011758	-1.520006995	5.10E-38	adam33	ADAM metall	ENSG00000149451
510	ENSXETG00000029964	-1.519045342	1.93E-09	ENSXETG00000029964		ENSG00000175575
511	ENSXETG00000005344	-1.518594414	2.24E-05	frmpd4	FERM and PD	ENSG00000169933
512	ENSXETG00000001861	-1.518547424	1.28E-08	INHBA		ENSG00000122641
513	ENSXETG00000001021	-1.51844778	9.34E-16	acap3	ArfGAP with c	ENSG00000131584
514	ENSXETG00000022659	-1.515367321	8.40E-11	b9d1	B9 protein do	ENSG00000108641
515	ENSXETG00000002263	-1.515230063	9.11E-11	ttc28	tetratricopep	ENSG00000100154
516	ENSXETG00000001035	-1.515044496	1.78E-25	fam132a	C1q and TNF r	ENSG00000184163
517	ENSXETG00000010327	-1.512452497	2.66E-09	nme4	NME/NM23 n	ENSG00000103202
518	ENSXETG00000017293	-1.509169779	6.95E-36	ephb3	EPH receptor	ENSG00000182580
519	ENSXETG00000007574	-1.504698253	3.37E-156	cldn7	claudin 7	ENSG00000181885
520	ENSXETG00000003217	-1.504030686	1.48E-07	mylk	myosin light c	ENSG00000065534
521	ENSXETG00000003954	-1.50276397	2.75E-41	ptgds	prostaglandin	ENSG00000107317
522	ENSXETG00000011844	-1.501924075	2.49E-21	chit1	chitinase 1 (cl	ENSG00000085465
523	ENSXETG00000013638	-1.501922455	2.95E-15	adamts5	ADAM metall	ENSG00000154736
524	ENSXETG00000027414	-1.500173966	1.28E-36	epn3	epsin 3	ENSG00000049283
525	ENSXETG00000013739	-1.500063154	6.13E-07	ccdc113	coiled-coil do	ENSG00000103021
526	ENSXETG00000016303	-1.498647972	4.17E-06	gja5	gap junction p	ENSG00000265107
527	ENSXETG00000022940	-1.497108097	9.24E-06	ssbp4	single strande	ENSG00000130511
528	ENSXETG00000015061	-1.496952019	2.14E-08	map6	microtubule a	ENSG00000171533
529	ENSXETG00000025329	-1.495510544	5.59E-303	cldn4	claudin 4	ENSG00000165215,ENSG00000189143
530	ENSXETG00000005431	-1.495201719	5.40E-15	sema3d	semaphorin 3	ENSG00000153993
531	ENSXETG00000020206	-1.494594351	7.30E-97	timp2	TIMP metallo	ENSG00000035862
532	ENSXETG00000019690	-1.49359103	7.52E-14	cidea	cell death-ind	ENSG00000176194
533	ENSXETG00000015656	-1.493462088	0	igfbp1	insulin like gr	ENSG00000146678
534	ENSXETG00000000310	-1.49280118	6.06E-08	wdr47	WD repeat do	ENSG00000085433
535	ENSXETG00000030649	-1.487169225	1.04E-06	fcn1		ENSG00000160339,ENSG00000085265
536	ENSXETG00000016838	-1.487029538	0	hspa5	heat shock pr	ENSG00000044574
537	ENSXETG00000006020	-1.486396677	2.31E-14	lrrn4cl	LRRN4 C-term	ENSG00000177363
538	ENSXETG00000002363	-1.486277386	5.47E-15	vwa5a.2	von Willebran	ENSG00000110002
539	ENSXETG00000024787	-1.48447663	0.000242823	htr2c	5-hydroxytryp	ENSG00000147246
540	ENSXETG00000024840	-1.484425748	4.92E-63	c21orf62	chromosome	ENSG00000205929
541	ENSXETG00000011196	-1.482440214	1.08E-05	tmem59l	transmembra	ENSG00000105696
542	ENSXETG00000018635	-1.482313065	2.46E-23	plxna1	plexin A1	ENSG00000114554
543	ENSXETG00000023484	-1.481366258	9.26E-09	hoxc4	homeobox C4	ENSG00000198353
544	ENSXETG00000013090	-1.481143308	1.54E-05	abhd8	abhydrolase d	ENSG00000127220
545	ENSXETG00000010251	-1.480560608	3.25E-12	hsp90aa1.1	heat shock pr	ENSG00000080824
546	ENSXETG00000011817	-1.479453645	8.25E-267	slco2a1	solute carrier	ENSG00000174640
547	ENSXETG00000016687	-1.478824761	2.47E-81	cdh6	cadherin 6	ENSG00000113361
548	ENSXETG00000010420	-1.477126183	3.43E-239	pmp2	peripheral my	ENSG00000147588,ENSG00000170323,ENSG00000205186,ENSG00000197416,ENSG00000164687
549	ENSXETG00000027069	-1.475388922	3.24E-13	tmem47	transmembra	ENSG00000147027
550	ENSXETG00000008736	-1.474633572	4.55E-194	tpm4	tropomyosin	ENSG00000167460
551	ENSXETG00000013772	-1.473418081	5.56E-05	fbln7	fibulin 7	ENSG00000144152
552	ENSXETG00000009494	-1.473357501	6.39E-06	phc2	polyhomeotic	ENSG00000134686
553	ENSXETG00000011339	-1.47242307	2.49E-05	sez6l2	seizure relate	ENSG00000174938
554	ENSXETG00000015100	-1.472001054	1.70E-23	ttc39c	tetratricopep	ENSG00000168234
555	ENSXETG00000015830	-1.471935126	1.14E-40	gpx3	glutathione p	ENSG00000211445,ENSG00000198704,ENSG00000224586
556	ENSXETG00000012676	-1.471701382	8.97E-10	ENSXETG00000012676		ENSG00000132703,ENSG00000132693
557	ENSXETG00000003134	-1.470623594	2.17E-192	enpp2	ectonucleotid	ENSG00000136960
558	ENSXETG00000024951	-1.470512481	4.32E-18	ENSXETG00000024951		ENSG00000159433
559	ENSXETG00000003142	-1.470189439	4.84E-23	TNFRSF11B		ENSG00000164761
560	ENSXETG00000019757	-1.466121192	9.16E-13	masp1	mannan-bind	ENSG00000127241
561	ENSXETG00000008045	-1.465325481	7.98E-05	kazald1	Kazal type ser	ENSG00000107821
562	ENSXETG00000003552	-1.4650041	1.83E-05	ropn1l	rhophilin ass	ENSG00000145491
563	ENSXETG00000021716	-1.462448309	0.00045107	galnt13	polypeptide N	ENSG00000144278
564	ENSXETG00000015093	-1.461542567	0.000434231	ankef1	ankyrin repea	ENSG00000132623
565	ENSXETG00000013710	-1.461008651	2.70E-10	mmp16	matrix metall	ENSG00000156103
566	ENSXETG00000012189	-1.460935576	4.73E-23	bicdl1	BICD family li	ENSG00000135127
567	ENSXETG00000007499	-1.458850049	1.00E-19	vegfd	vascular endo	ENSG00000165197
568	ENSXETG00000001994	-1.458700825	1.39E-24	ano1	anoctamin 1,	ENSG00000131620
569	ENSXETG00000027366	-1.458311824	2.71E-08	snai1	snail family zi	ENSG00000124216
570	ENSXETG00000017641	-1.458132284	2.76E-11	rcn3	reticulocalbin	ENSG00000142552
571	ENSXETG00000002635	-1.457396539	2.21E-54	col4a2	collagen, type	ENSG00000134871
572	ENSXETG00000007924	-1.456954933	6.09E-07	epor	erythropoieti	ENSG00000187266
573	ENSXETG00000005518	-1.456492742	0.000561293	mtus2	microtubule a	ENSG00000132938
574	ENSXETG00000025480	-1.456429081	0.000309119	epyc	epiphycan	ENSG00000083782
575	ENSXETG00000000802	-1.456139403	1.54E-17	ror2	receptor tyros	ENSG00000169071
576	ENSXETG00000001116	-1.454865437	2.43E-22	scml2	Scm polycom	ENSG00000102098
577	ENSXETG00000008596	-1.452216501	9.46E-39	srpx	sushi repeat c	ENSG00000101955
578	ENSXETG00000016336	-1.451507155	3.32E-35	ptgs1	prostaglandin	ENSG00000095303
579	ENSXETG00000015832	-1.449182648	4.49E-69	anxa6	annexin A6	ENSG00000197043
580	ENSXETG00000016983	-1.448939329	1.84E-09	rtn1	reticulon 1	ENSG00000139970
581	ENSXETG00000024067	-1.447334272	3.62E-08	otoa	otoancorin	ENSG00000155719
582	ENSXETG00000013347	-1.446792249	2.48E-28	gpm6b	glycoprotein	ENSG00000046653
583	ENSXETG00000015003	-1.446465135	3.91E-15	chn1	chimerin 1	ENSG00000128656
584	ENSXETG00000000702	-1.444865253	0.000146331	ttc23l	tetratricopep	ENSG00000205838
585	ENSXETG00000018020	-1.444271635	0.000610379	sh3gl2	SH3-domain G	ENSG00000107295
586	ENSXETG00000002712	-1.44331213	6.29E-18	soga1	suppressor of	ENSG00000149639
587	ENSXETG00000019789	-1.442318429	7.40E-80	fam83c	family with se	ENSG00000125998
588	ENSXETG00000013759	-1.442240736	0.000463151	drc7	dynein regula	ENSG00000159625
589	ENSXETG00000012277	-1.441631323	4.48E-07	scube1	signal peptide	ENSG00000159307
590	ENSXETG00000027651	-1.439786622	4.09E-15	ccdc28b	coiled-coil do	ENSG00000160050
591	ENSXETG00000013147	-1.438709491	5.45E-09	adamts9	ADAM metall	ENSG00000163638
592	ENSXETG00000010446	-1.436703399	0.000471928	myoc	myocilin, trab	ENSG00000034971
593	ENSXETG00000000659	-1.435644672	9.57E-07	efhc1	EF-hand dom	ENSG00000096093
594	ENSXETG00000000720	-1.435308966	2.68E-16	hoxa5	homeobox A5	ENSG00000106004
595	ENSXETG00000030458	-1.434056395	0.00028159	ENSXETG00000030458		ENSG00000125730
596	ENSXETG00000008234	-1.433824793	0.000261283	mag	myelin associ	ENSG00000105695
597	ENSXETG00000030908	-1.433655407	8.03E-07	ENSXETG00000030908		ENSG00000137710
598	ENSXETG00000021330	-1.430742984	0.000170223	ENSXETG00000021330		ENSG00000196569
599	ENSXETG00000005342	-1.429693375	4.33E-12	arhgap6	Rho GTPase a	ENSG00000047648
600	ENSXETG00000007104	-1.428195335	1.28E-20	sdc3	syndecan 3	ENSG00000162512
601	ENSXETG00000014947	-1.427304369	1.00E-04	tspan33	tetraspanin 3	ENSG00000158457
602	ENSXETG00000021531	-1.426170011	1.22E-55	antxr2	anthrax toxin	ENSG00000163297
603	ENSXETG00000007851	-1.425046056	1.52E-23	crtap	cartilage asso	ENSG00000170275
604	ENSXETG00000001856	-1.424930627	6.27E-10	gli3	GLI family zin	ENSG00000106571
605	ENSXETG00000025130	-1.424734491	8.25E-07	fgf10	fibroblast gro	ENSG00000070193
606	ENSXETG00000003829	-1.421949431	1.39E-09	adamts2	ADAM metall	ENSG00000087116
607	ENSXETG00000015454	-1.42188899	4.41E-06	ednrb	endothelin re	ENSG00000136160
608	ENSXETG00000029923	-1.421701601	8.15E-13	EVC2		ENSG00000173040
609	ENSXETG00000017410	-1.421342079	1.73E-10	cdh16	cadherin 16	ENSG00000166589
610	ENSXETG00000024004	-1.417919838	1.25E-06	tmem189	transmembra	ENSG00000240849,ENSG00000124208
611	ENSXETG00000014548	-1.417568661	2.78E-10	cep170	centrosomal p	ENSG00000143702
612	ENSXETG00000019664	-1.416773751	2.22E-36	cyp2r1	cytochrome P	ENSG00000186104
613	ENSXETG00000000760	-1.413833677	6.47E-47	gcnt1	glucosaminyl	ENSG00000187210
614	ENSXETG00000007863	-1.411883237	6.52E-12	stmn2	stathmin 2	ENSG00000104435
615	ENSXETG00000012724	-1.411237112	0.000237592	col11a2p1	collagen type	ENSG00000204248
616	ENSXETG00000021361	-1.408510055	4.88E-15	igfbp4	insulin like gr	ENSG00000141753
617	ENSXETG00000005838	-1.408131171	5.48E-07	mllt11	MLLT11, trans	ENSG00000213190
618	ENSXETG00000026343	-1.405450925	3.21E-09	gap43	growth assoc	ENSG00000172020
619	ENSXETG00000014934	-1.404760649	0.000256234	catip	ciliogenesis a	ENSG00000158428
620	ENSXETG00000022815	-1.404048422	1.56E-08	ralgps2	Ral GEF with P	ENSG00000116191
621	ENSXETG00000018417	-1.403375651	0.000923409	sall1	spalt-like tran	ENSG00000103449
622	ENSXETG00000005359	-1.402680074	0	hsp90b1	heat shock pr	ENSG00000166598
623	ENSXETG00000001780	-1.402380669	1.59E-14	ptgis	prostaglandin	ENSG00000124212
624	ENSXETG00000021083	-1.400556957	2.10E-07	phox2b	paired like ho	ENSG00000109132
625	ENSXETG00000017649	-1.396971327	0.000468676	tmem132e	transmembra	ENSG00000181291
626	ENSXETG00000016718	-1.396793947	2.51E-07	nfix	nuclear facto	ENSG00000008441
627	ENSXETG00000016556	-1.396516391	7.25E-06	mns1	meiosis speci	ENSG00000138587
628	ENSXETG00000009863	-1.39570493	0.000373636	adamts12	ADAM metall	ENSG00000151388
629	ENSXETG00000021994	-1.394573292	0.000509699	pip5kl1	phosphatidyli	ENSG00000167103
630	ENSXETG00000030147	-1.394078881	3.87E-63	ENSXETG00000030147		ENSG00000165240
631	ENSXETG00000006260	-1.393709384	1.95E-06	ak8	adenylate kin	ENSG00000165695
632	ENSXETG00000014109	-1.393649005	6.59E-09	ier5l	immediate ea	ENSG00000188483
633	ENSXETG00000019484	-1.391914335	3.03E-40	ppid	peptidylproly	ENSG00000171497
634	ENSXETG00000006573	-1.389396801	1.81E-17	mier2	mesoderm in	ENSG00000105556
635	ENSXETG00000000377	-1.386695329	2.45E-19	fras1	Fraser extrac	ENSG00000138759
636	ENSXETG00000020322	-1.386498628	1.98E-06	cfap53	cilia and flage	ENSG00000172361
637	ENSXETG00000030085	-1.38531903	2.53E-13	SMOC1		ENSG00000198732
638	ENSXETG00000000338	-1.385212605	3.52E-18	pkd2	polycystin 2, t	ENSG00000118762
639	ENSXETG00000011490	-1.385015874	0	col6a2	collagen, type	ENSG00000142173
640	ENSXETG00000022545	-1.384487616	9.83E-05	ppp1r14c	protein phosp	ENSG00000198729
641	ENSXETG00000030100	-1.383953968	0.000764512	ENSXETG00000030100		ENSG00000165140
642	ENSXETG00000009839	-1.380550069	0.000179965	atp10d	ATPase, class	ENSG00000145246
643	ENSXETG00000000506	-1.379913418	0	clca1	chloride chan	ENSG00000016602,ENSG00000016490,ENSG00000137975
644	ENSXETG00000017563	-1.37920441	9.01E-73	hspb6	heat shock pr	ENSG00000004776
645	ENSXETG00000014390	-1.37907703	1.68E-16	ntn1		ENSG00000142233
646	ENSXETG00000015861	-1.378921331	6.39E-06	klhl4	kelch like fam	ENSG00000102271
647	ENSXETG00000009264	-1.377950614	0	papss2	3'-phosphoad	ENSG00000198682
648	ENSXETG00000001003	-1.377059646	0.000843327	trpc3	transient rece	ENSG00000138741
649	ENSXETG00000003545	-1.37613898	0.000147705	pcsk2	proprotein co	ENSG00000125851
650	ENSXETG00000026292	-1.370277919	0.001206164	sox2	SRY-box 2	ENSG00000181449
651	ENSXETG00000000646	-1.370049344	0.000642871	clec4m	C-type lectin c	ENSG00000182566
652	ENSXETG00000029095	-1.369828466	0.000378054	xtr-mir-145		ENSG00000276365
653	ENSXETG00000013701	-1.369791506	3.97E-129	dkk3	dickkopf WNT	ENSG00000050165
654	ENSXETG00000015931	-1.369580228	5.66E-75	slc9a3r2	SLC9A3 regula	ENSG00000065054
655	ENSXETG00000030705	-1.369536177	1.93E-21	ENSXETG00000030705		ENSG00000174611
656	ENSXETG00000004486	-1.368893209	0.001284471	kif5c	kinesin family	ENSG00000168280
657	ENSXETG00000019901	-1.368006085	0.000533384	unc5b	unc-5 netrin r	ENSG00000107731
658	ENSXETG00000010195	-1.36797616	0.00014677	stkld1	serine/threon	ENSG00000198870
659	ENSXETG00000006172	-1.367239566	6.01E-05	cfap206	cilia and flage	ENSG00000272514,ENSG00000213204
660	ENSXETG00000025335	-1.366279593	1.52E-46	rnd3	Rho family GT	ENSG00000115963
661	ENSXETG00000005040	-1.365428279	0.001268719	camta1	calmodulin bi	ENSG00000171735
662	ENSXETG00000003175	-1.365207176	4.51E-08	c1ql1	complement c	ENSG00000131094
663	ENSXETG00000014155	-1.364900443	1.65E-06	dnajb5	DnaJ heat sho	ENSG00000137094
664	ENSXETG00000021088	-1.363165126	6.26E-29	limch1	LIM and calpo	ENSG00000064042
665	ENSXETG00000008597	-1.361594036	1.19E-05	sytl5	synaptotagmi	ENSG00000147041
666	ENSXETG00000006532	-1.361390384	1.71E-05	fbxo10	F-box protein	ENSG00000147912
667	ENSXETG00000024347	-1.36074585	2.57E-40	znf703	zinc finger pro	ENSG00000183779
668	ENSXETG00000008581	-1.359106782	1.40E-22	olfml2a	olfactomedin	ENSG00000185585
669	ENSXETG00000026587	-1.358862197	1.82E-08	ENSXETG00000026587		ENSG00000197816
670	ENSXETG00000014233	-1.358087213	0.001302822	avpr2	arginine vaso	ENSG00000126895
671	ENSXETG00000004835	-1.357826136	0.000105026	efhc2	EF-hand dom	ENSG00000183690
672	ENSXETG00000000527	-1.356080709	1.61E-05	dmgdh	dimethylglyci	ENSG00000132837
673	ENSXETG00000011684	-1.355723901	2.26E-08	cux2	cut like home	ENSG00000111249
674	ENSXETG00000012101	-1.355371831	3.47E-17	aplp1	amyloid beta	ENSG00000105290
675	ENSXETG00000021454	-1.354720021	0.000345504	dennd2c	DENN/MADD	ENSG00000175984
676	ENSXETG00000000921	-1.353843383	3.09E-10	arhgef3.2	Rho guanine n	ENSG00000163947
677	ENSXETG00000031229	-1.353527825	8.01E-161	COL6A3		ENSG00000163359
678	ENSXETG00000014867	-1.353118324	3.40E-31	pltp	phospholipid	ENSG00000100979
679	ENSXETG00000021584	-1.35268747	3.36E-233	dll4	delta-like 4	ENSG00000128917
680	ENSXETG00000007819	-1.351495049	0.000825538	nox5	NADPH oxida	ENSG00000255346
681	ENSXETG00000002964	-1.351101287	0.000724671	proc	protein C, ina	ENSG00000115718
682	ENSXETG00000024518	-1.350615127	1.70E-15	pcdhga3	protocadherin	ENSG00000242419
683	ENSXETG00000022892	-1.350406202	0.001297823	sorcs2	sortilin-relate	ENSG00000184985
684	ENSXETG00000020537	-1.349675237	2.23E-13	cd248	CD248 molec	ENSG00000174807
685	ENSXETG00000005368	-1.346002183	0.001224269	c6orf118	chromosome	ENSG00000112539
686	ENSXETG00000021129	-1.344286189	0.000211129	bmper	BMP binding e	ENSG00000164619
687	ENSXETG00000030878	-1.34410439	0.000481617	NHLRC4		ENSG00000257108
688	ENSXETG00000014224	-1.343946924	0.000125777	igsf21	immunoglobi	ENSG00000117154
689	ENSXETG00000007864	-1.343306087	1.17E-08	hey1	hes related fa	ENSG00000164683
690	ENSXETG00000015995	-1.342383368	7.14E-09	lgals1	lectin, galacto	ENSG00000100097
691	ENSXETG00000020282	-1.342362209	2.92E-12	itga8	integrin subu	ENSG00000077943
692	ENSXETG00000005172	-1.342259433	0.000582325	ccdc33	coiled-coil do	ENSG00000140481
693	ENSXETG00000015233	-1.34194793	0.001211184	plekhg7	pleckstrin hor	ENSG00000187510
694	ENSXETG00000023131	-1.341895264	7.50E-11	ENSXETG00000023131		ENSG00000175575
695	ENSXETG00000008680	-1.340956305	5.36E-08	elavl4	ELAV like neu	ENSG00000162374
696	ENSXETG00000022614	-1.340692662	0	epcam	epithelial cell	ENSG00000119888,ENSG00000184292
697	ENSXETG00000012696	-1.339637563	5.61E-05	vat1l	vesicle amine	ENSG00000171724
698	ENSXETG00000017080	-1.339048759	0.001041222	crhbp	corticotropin	ENSG00000145708
699	ENSXETG00000009523	-1.338186098	4.69E-13	htr2b	5-hydroxytryp	ENSG00000135914
700	ENSXETG00000025267	-1.337614687	7.12E-05	ybx2	Y-box binding	ENSG00000006047
701	ENSXETG00000023689	-1.337183508	8.34E-07	SMAD9		ENSG00000120693
702	ENSXETG00000024889	-1.33686363	0.00035645	foxe1	forkhead box	ENSG00000178919
703	ENSXETG00000026547	-1.335297139	0.001455115	ENSXETG00000026547		ENSG00000180644
704	ENSXETG00000013222	-1.333556656	1.12E-21	osmr	oncostatin M	ENSG00000145623
705	ENSXETG00000006227	-1.33202703	4.17E-23	arhgef25	Rho guanine n	ENSG00000240771
706	ENSXETG00000001670	-1.331793798	2.16E-40	pgm5	phosphogluco	ENSG00000154330
707	ENSXETG00000014772	-1.331745328	2.89E-295	ENSXETG00000014772		ENSG00000135917
708	ENSXETG00000026864	-1.330342873	8.26E-16	ms4a1	membrane sp	ENSG00000166961,ENSG00000071203,ENSG00000214782,ENSG00000110079,ENSG00000166959,ENSG00000214787
709	ENSXETG00000010781	-1.330244639	0.000413586	pacrg	parkin co-reg	ENSG00000112530
710	ENSXETG00000014869	-1.329231553	4.12E-05	efna5	ephrin A5	ENSG00000184349
711	ENSXETG00000030143	-1.328863818	0.001665629	SBSPON		ENSG00000164764
712	ENSXETG00000031179	-1.328857159	0.001683257	slc12a5		ENSG00000124140
713	ENSXETG00000016384	-1.328514298	0.000194701	ENSXETG00000016384		ENSG00000187720
714	ENSXETG00000024618	-1.32826316	7.11E-25	rbm24	RNA binding r	ENSG00000112183

715	ENSXETG00000002268	-1.327171982	6.21E-21	phactr1	phosphatase	ENSG00000112137
716	ENSXETG00000029831	-1.325411196	0.001072926	SNORA40		ENSG00000210825,ENSG00000274458,ENSG00000252083,ENSG00000222966,ENSG00000212579,ENSG00000252188,ENSG00000273499,ENSG00000212273,ENSG00000212134,ENSG00000212363,ENSG00000212587,ENSG00000252352,ENSG00000252693,ENSG00000212149,ENSG00000212266,ENSG00000252138,ENSG00000253065,ENSG00000251704,ENSG00000208308,ENSG00000252049,ENSG00000253047,ENSG00000212455
717	ENSXETG00000008949	-1.325135693	2.54E-13	cuedc1	CUE domain c	ENSG00000180891
718	ENSXETG00000000896	-1.325025307	1.72E-30	abcc9	ATP binding c	ENSG00000069431
719	ENSXETG00000019780	-1.324062304	0.000454968	rassf10	Ras associatio	ENSG00000189431
720	ENSXETG00000024054	-1.323020288	0.001644829	rsph10b	radial spoke h	ENSG00000155026,ENSG00000169402
721	ENSXETG00000005630	-1.322697486	1.97E-19	dlc1	DLC1 Rho GTF	ENSG00000164741
722	ENSXETG00000010212	-1.32043394	1.11E-17	hopx	HOP homeob	ENSG00000171476
723	ENSXETG00000007384	-1.316881423	5.38E-11	spag6	sperm associa	ENSG00000077327
724	ENSXETG00000007561	-1.316595272	0.00114233	cat.1	catalase, gene	ENSG00000121691
725	ENSXETG00000020934	-1.316503983	6.13E-45	hvcn1	hydrogen volt	ENSG00000122986
726	ENSXETG00000016086	-1.315463247	3.05E-18	hdgfrp3	HDGF like 3	ENSG00000166503
727	ENSXETG00000016565	-1.315347662	7.26E-06	islr2	immunoglobu	ENSG00000167178,ENSG00000129009
728	ENSXETG00000011201	-1.315238528	0.00125067	cat1	calcium trans	ENSG00000127412,ENSG00000165125
729	ENSXETG00000006761	-1.314710367	1.30E-23	dab2	Dab, mitogen	ENSG00000153071
730	ENSXETG00000004054	-1.314578453	5.11E-06	PIEZO2		ENSG00000154864
731	ENSXETG00000017616	-1.313717325	2.46E-21	hhip	hedgehog inte	ENSG00000164161
732	ENSXETG00000002514	-1.313429197	2.46E-10	crb2	crumbs 2, cell	ENSG00000148204
733	ENSXETG00000020280	-1.312985034	7.53E-09	fam171a1	family with se	ENSG00000148468
734	ENSXETG00000003402	-1.311512981	8.41E-05	ccdc103	coiled-coil do	ENSG00000167131,ENSG00000214447
735	ENSXETG00000025730	-1.310781236	0.001555638	pgc	progastricsin	ENSG00000096088
736	ENSXETG00000014758	-1.310317162	3.17E-05	dner	delta/notch li	ENSG00000187957
737	ENSXETG00000006714	-1.310004082	0.000193885	hspa1l	heat shock pr	ENSG00000173110,ENSG00000204389,ENSG00000204390,ENSG00000204388
738	ENSXETG00000025913	-1.309736187	0.000585684	lrrc69	leucine rich re	ENSG00000214954
739	ENSXETG00000022691	-1.309221214	0.001992803	dzip1l	DAZ interactin	ENSG00000158163
740	ENSXETG00000023749	-1.307637123	1.12E-09	gpr20	G protein-cou	ENSG00000204882
741	ENSXETG00000006585	-1.306673032	0.0021084	htr5a	5-hydroxytryp	ENSG00000157219
742	ENSXETG00000030246	-1.306050198	9.12E-60	ENSXETG00000030246		ENSG00000016602,ENSG00000016490,ENSG00000137975
743	ENSXETG00000017555	-1.305936578	1.44E-06	tshz2	teashirt zinc f	ENSG00000182463
744	ENSXETG00000003585	-1.304431068	4.64E-06	rhoj	ras homolog f	ENSG00000126785
745	ENSXETG00000001069	-1.304333266	7.75E-07	mak	male germ ce	ENSG00000111837
746	ENSXETG00000014398	-1.304006729	0.001953382	myrip	myosin VIIA a	ENSG00000170011
747	ENSXETG00000016158	-1.303695379	9.05E-14	arhgef40	Rho guanine r	ENSG00000165801
748	ENSXETG00000002423	-1.30125724	4.19E-32	f5	coagulation fa	ENSG00000198734
749	ENSXETG00000011268	-1.300787159	2.36E-26	rbm38	RNA binding r	ENSG00000132819
750	ENSXETG00000018493	-1.29987942	0.002159731	gucy1a2	guanylate cyc	ENSG00000152402
751	ENSXETG00000003579	-1.299612037	2.06E-137	hsd17b2	hydroxysteroi	ENSG00000086696
752	ENSXETG00000004412	-1.298918904	1.63E-10	gpr182	G protein-cou	ENSG00000166856
753	ENSXETG00000024089	-1.297978866	7.70E-16	atat1	alpha tubulin	ENSG00000137343
754	ENSXETG00000021284	-1.297336098	0.001619234	armc2	armadillo rep	ENSG00000118690
755	ENSXETG00000009943	-1.296857753	0.002331695	ntng1	netrin G1	ENSG00000162631
756	ENSXETG00000011332	-1.296778488	3.69E-12	vwde	von Willebran	ENSG00000146530
757	ENSXETG00000030443	-1.29675709	0.00011827	ITIH6		ENSG00000102313
758	ENSXETG00000011677	-1.29661037	9.48E-63	rasl11b	RAS like famil	ENSG00000128045
759	ENSXETG00000012458	-1.293727127	1.04E-09	cacna1e	calcium chann	ENSG00000198216
760	ENSXETG00000008129	-1.293354005	5.58E-07	adamts3	ADAM metall	ENSG00000156140
761	ENSXETG00000001823	-1.293186986	2.11E-16	tns2	tensin 2	ENSG00000111077
762	ENSXETG00000013630	-1.293041154	1.56E-07	cyyr1	cysteine and t	ENSG00000166265
763	ENSXETG00000019261	-1.292582841	0.001306246	sobp		ENSG00000112320
764	ENSXETG00000029957	-1.290761148	9.76E-43	bcl2l11		ENSG00000153094
765	ENSXETG00000007038	-1.290306159	2.24E-11	mef2c	MADS box tra	ENSG00000081189
766	ENSXETG00000007116	-1.289508536	0.001029948	ttc29	tetratricopep	ENSG00000137473
767	ENSXETG00000030197	-1.287087057	1.81E-05	ENSXETG00000030197		ENSG00000175575
768	ENSXETG00000030452	-1.286476918	6.51E-07	ENSXETG00000030452		ENSG00000106853
769	ENSXETG00000022781	-1.285547562	2.48E-34	ets1	v-ets avian er	ENSG00000134954
770	ENSXETG00000028091	-1.284755687	0.002615579	ccno	cyclin O	ENSG00000152669
771	ENSXETG00000000784	-1.284087956	8.81E-18	hebp2	heme binding	ENSG00000051620
772	ENSXETG00000007075	-1.282562356	3.83E-10	maml2	mastermind l	ENSG00000184384
773	ENSXETG00000000589	-1.281765613	3.83E-08	foxf2	forkhead box	ENSG00000137273
774	ENSXETG00000009683	-1.281289631	4.38E-46	tpbgl	trophoblast g	ENSG00000261594
775	ENSXETG00000026488	-1.280667666	2.63E-10	p2ry13	purinergic rec	ENSG00000181631
776	ENSXETG00000018502	-1.279899954	1.37E-06	crhr2	corticotropin	ENSG00000106113
777	ENSXETG00000007554	-1.279820546	2.65E-06	pamr1	peptidase dor	ENSG00000149090
778	ENSXETG00000025814	-1.27912429	2.60E-09	ENSXETG00000025814		ENSG00000109670
779	ENSXETG00000026528	-1.278561718	3.55E-06	havcr1	hepatitis A vir	ENSG00000113249,ENSG00000135077
780	ENSXETG00000030355	-1.277988919	0.002110135	CYB5D1		ENSG00000182224
781	ENSXETG00000015746	-1.277943479	9.12E-22	wwc3	WWC family r	ENSG00000047644
782	ENSXETG00000005220	-1.277860444	5.51E-05	egfl8	EGF like doma	ENSG00000241404
783	ENSXETG00000005519	-1.276337824	4.47E-06	bmp2	bone morpho	ENSG00000125845
784	ENSXETG00000002491	-1.27627371	2.48E-07	rundc3b	RUN domain c	ENSG00000105784
785	ENSXETG00000027245	-1.275653394	0.001357383	ogn	osteoglycin	ENSG00000106809
786	ENSXETG00000021972	-1.273426271	7.77E-22	col27a1	collagen, type	ENSG00000196739
787	ENSXETG00000026803	-1.272842392	8.83E-05	otos	otospiralin	ENSG00000178602
788	ENSXETG00000030496	-1.27229923	0.001556064	SCARA5		ENSG00000168079
789	ENSXETG00000008473	-1.271621209	1.95E-07	ENSXETG00000008473		ENSG00000158764,ENSG00000179914
790	ENSXETG00000005053	-1.270078778	3.61E-12	dgkb	diacylglycerol	ENSG00000136267
791	ENSXETG00000027152	-1.269447632	4.45E-50	ENSXETG00000027152		ENSG00000242419
792	ENSXETG00000017863	-1.268450096	0.00282992	rgs22	regulator of G	ENSG00000132554
793	ENSXETG00000001974	-1.267918476	0.000449582	st3gal5	ST3 beta-gala	ENSG00000115525
794	ENSXETG00000024861	-1.26780596	8.20E-39	loxl1	lysyl oxidase l	ENSG00000129038
795	ENSXETG00000005867	-1.266425912	8.20E-05	klkb1	kallikrein B1	ENSG00000164344,ENSG00000088926
796	ENSXETG00000022236	-1.265730144	7.98E-29	tspan18	tetraspanin 18	ENSG00000157570
797	ENSXETG00000009195	-1.265598544	0.000369082	tnr	tenascin R	ENSG00000116147
798	ENSXETG00000017323	-1.26544694	3.65E-104	tgm2	transglutamin	ENSG00000198959
799	ENSXETG00000018247	-1.265166377	0.002969335	kcna4	potassium vo	ENSG00000182255
800	ENSXETG00000012558	-1.264374339	1.15E-16	ptpn13	protein tyrosi	ENSG00000163629
801	ENSXETG00000004570	-1.258114402	0.003033435	ENSXETG00000004570		ENSG00000105550
802	ENSXETG00000018144	-1.25777818	2.59E-11	DIAPH3		ENSG00000139734
803	ENSXETG00000008599	-1.257587288	1.21E-12	frrs1l	ferric-chelate	ENSG00000260230
804	ENSXETG00000010194	-1.25480445	9.48E-09	pih1d2	PIH1 domain	ENSG00000150773
805	ENSXETG00000002370	-1.25451692	0.003369452	pcdh11x	protocadherin	ENSG00000102290,ENSG00000099715
806	ENSXETG00000020877	-1.253834874	0.000730528	clcf1	cardiotrophin	ENSG00000175505
807	ENSXETG00000001339	-1.252712666	0.000214994	frzb	frizzled-relate	ENSG00000162998
808	ENSXETG00000017473	-1.252106209	2.32E-21	ENSXETG00000017473		ENSG00000069122
809	ENSXETG00000016908	-1.251994549	1.30E-27	hand2	heart and neu	ENSG00000164107
810	ENSXETG00000005484	-1.251183767	1.84E-47	emc3	ER membrane	ENSG00000125037
811	ENSXETG00000030708	-1.248752055	1.90E-09	ENSXETG00000030708		ENSG00000196118
812	ENSXETG00000012882	-1.24765159	1.83E-35	meis2	Meis homeob	ENSG00000134138
813	ENSXETG00000011390	-1.246606863	1.24E-22	cox20	COX20 cytoch	ENSG00000102181
814	ENSXETG00000014191	-1.246407165	3.37E-10	cap2	cyclase assoc	ENSG00000112186
815	ENSXETG00000020332	-1.245582151	1.39E-07	cd38	CD38 molecul	ENSG00000004468
816	ENSXETG00000025680	-1.245152909	0.002803613	lhfpl3	LHFPL tetrasp	ENSG00000187416
817	ENSXETG00000001712	-1.245137671	5.45E-18	pprc1	peroxisome p	ENSG00000148840
818	ENSXETG00000001697	-1.244862299	1.18E-08	olfml3	olfactomedin	ENSG00000116774
819	ENSXETG00000014939	-1.244401306	3.75E-15	smo	smoothened,	ENSG00000128602
820	ENSXETG00000020706	-1.2439077	2.37E-20	thsd1	thrombospon	ENSG00000136114
821	ENSXETG00000020459	-1.243531046	1.18E-20	eef1e1	eukaryotic tra	ENSG00000124802,ENSG00000265818
822	ENSXETG00000013134	-1.242331403	0.000159203	miga1	mitoguardin 1	ENSG00000180488
823	ENSXETG00000010095	-1.241077106	5.16E-22	nrp2	neuropilin 2	ENSG00000118257
824	ENSXETG00000004792	-1.238824842	7.27E-11	chst13	carbohydrate	ENSG00000180767
825	ENSXETG00000030785	-1.238073389	0.000128147	ENSXETG00000030785		ENSG00000104870,ENSG00000204520,ENSG00000204516
826	ENSXETG00000000976	-1.236558425	2.80E-17	klhdc8a	kelch domain	ENSG00000162873
827	ENSXETG00000026789	-1.233192442	2.63E-23	gja4	gap junction p	ENSG00000187513
828	ENSXETG00000023262	-1.23281843	0.003971064	ppp1r42	protein phosp	ENSG00000178125
829	ENSXETG00000030514	-1.231905169	9.75E-12	PLCE1		ENSG00000138193
830	ENSXETG00000014937	-1.231198706	2.57E-14	slc11a1	solute carrier	ENSG00000018280
831	ENSXETG00000026473	-1.228643537	4.08E-10	fam64a	PICALM intera	ENSG00000129195
832	ENSXETG00000008620	-1.228322568	3.97E-37	bmp4	bone morpho	ENSG00000125378
833	ENSXETG00000003729	-1.228280673	8.84E-05	lgi1	leucine-rich, g	ENSG00000108231
834	ENSXETG00000014957	-1.227320097	6.97E-05	chrne	cholinergic re	ENSG00000108556
835	ENSXETG00000021586	-1.227182797	7.12E-22	nlrx1	NLR family me	ENSG00000160703
836	ENSXETG00000019915	-1.226878072	7.12E-23	nes	nestin	ENSG00000132688
837	ENSXETG00000021754	-1.226684196	0.0002803	zbtb34	zinc finger an	ENSG00000177125
838	ENSXETG00000021375	-1.225299422	0.004214508	gria2		ENSG00000120251
839	ENSXETG00000001007	-1.225223705	1.36E-26	clic5	chloride intra	ENSG00000169504
840	ENSXETG00000000190	-1.224965839	0.000422176	tusc3	tumor suppre	ENSG00000104723
841	ENSXETG00000000274	-1.224783516	2.97E-45	trpm5	transient rece	ENSG00000130529
842	ENSXETG00000005959	-1.223984995	1.05E-12	traip	TRAF interact	ENSG00000183763
843	ENSXETG00000009831	-1.223616741	7.79E-14	tec	tec protein ty	ENSG00000135605
844	ENSXETG00000003370	-1.222619669	6.23E-10	plxna3	plexin A3	ENSG00000130827
845	ENSXETG00000012908	-1.22236367	0.001659317	nkain1	Sodium/potas	ENSG00000084628
846	ENSXETG00000021997	-1.222171887	1.76E-08	st6galnac6	ST6 (alpha-N-	ENSG00000160408
847	ENSXETG00000007169	-1.221564633	0.002309953	ENSXETG00000007169		ENSG00000214943
848	ENSXETG00000001613	-1.221447179	6.90E-26	emilin2	elastin microf	ENSG00000132205
849	ENSXETG00000031277	-1.219783448	6.62E-06	spry3		ENSG00000168939
850	ENSXETG00000020236	-1.216750947	0.003576937	rbfox3	RNA binding p	ENSG00000167281
851	ENSXETG00000012870	-1.215298153	1.01E-14	wdr19	WD repeat do	ENSG00000157796
852	ENSXETG00000002151	-1.214639262	1.54E-08	aqp3	aquaporin 3 (	ENSG00000165272
853	ENSXETG00000001586	-1.214255276	3.08E-05	XB-GENE-959703	Putative orth	ENSG00000154217
854	ENSXETG00000022636	-1.213841697	9.57E-14	prss35	protease, seri	ENSG00000146250
855	ENSXETG00000020892	-1.212470126	0.0046005	gc	group-specific	ENSG00000145321
856	ENSXETG00000017985	-1.211783718	2.98E-131	anxa3	annexin A3	ENSG00000138772
857	ENSXETG00000012202	-1.211453016	2.87E-23	ptger2	prostaglandin	ENSG00000125384
858	ENSXETG00000008495	-1.21135404	0.004068496	ntf3	neurotrophin	ENSG00000185652
859	ENSXETG00000016240	-1.210427173	0.004534273	styk1	serine/threon	ENSG00000060140
860	ENSXETG00000004621	-1.210282375	0.000460842	tnni2	troponin I2, fa	ENSG00000130598
861	ENSXETG00000010393	-1.209789721	5.82E-07	ENSXETG00000010393		ENSG00000117983
862	ENSXETG00000028025	-1.209231691	5.51E-07	srm	spermidine sy	ENSG00000116649
863	ENSXETG00000017133	-1.208589229	1.42E-07	fat3	FAT atypical c	ENSG00000165323
864	ENSXETG00000016503	-1.208437015	0.003798612	apba2	amyloid beta	ENSG00000034053
865	ENSXETG00000008779	-1.20778129	7.21E-55	fbn1	fibrillin 1	ENSG00000166147
866	ENSXETG00000030605	-1.207514864	0.004022722	ENSXETG00000030605		ENSG00000167210
867	ENSXETG00000017926	-1.207394398	0.001830742	COL9A1		ENSG00000112280
868	ENSXETG00000012709	-1.206150519	0.00058582	pde6a	phosphodiest	ENSG00000132915
869	ENSXETG00000023717	-1.205392836	1.07E-11	erg	v-ets avian er	ENSG00000157554
870	ENSXETG00000023103	-1.205134821	0.003158075	spata18	spermatogene	ENSG00000163071
871	ENSXETG00000011186	-1.204226754	1.97E-88	tuba1b	tubulin alpha	ENSG00000167552
872	ENSXETG00000018211	-1.201920002	2.75E-42	atad2b	ATPase family	ENSG00000119778
873	ENSXETG00000015273	-1.201354473	2.92E-06	XB-GENE-990170	Putative orth	ENSG00000173546
874	ENSXETG00000015027	-1.198613179	1.21E-11	tlr5	toll like recep	ENSG00000187554
875	ENSXETG00000013094	-1.198061642	2.80E-73	agtrap	angiotensin 2	ENSG00000177674
876	ENSXETG00000023228	-1.197747356	7.09E-93	fbxo32	F-box protein	ENSG00000156804
877	ENSXETG00000001112	-1.197698811	0.000329738	nhs	NHS actin rem	ENSG00000188158
878	ENSXETG00000026456	-1.197583474	0.001922942	rims2	regulating syn	ENSG00000176406
879	ENSXETG00000014072	-1.196656901	4.91E-17	itga4	integrin subu	ENSG00000115232
880	ENSXETG00000012239	-1.195831954	6.40E-94	abcc3	ATP binding c	ENSG00000108846
881	ENSXETG00000013631	-1.195080661	7.45E-25	adamts1	ADAM metall	ENSG00000154734
882	ENSXETG00000021376	-1.194068932	0.000496984	mpped2	metallophosp	ENSG00000066382
883	ENSXETG00000016316	-1.193464861	1.65E-17	ENSXETG00000016316		ENSG00000091972
884	ENSXETG00000022288	-1.193152563	7.68E-06	c1orf198	chromosome	ENSG00000119280
885	ENSXETG00000025742	-1.192085258	0.000933142	ENSXETG00000025742		ENSG00000134812
886	ENSXETG00000002660	-1.191357709	8.09E-17	JCAD		ENSG00000165757
887	ENSXETG00000012629	-1.190939256	4.12E-86	nrp1	neuropilin 1	ENSG00000099250
888	ENSXETG00000022183	-1.190382407	7.53E-204	birc2	baculoviral IA	ENSG00000110330,ENSG00000023445
889	ENSXETG00000025341	-1.189568152	1.24E-05	krt12	keratin 12	ENSG00000187242
890	ENSXETG00000002122	-1.189500235	1.98E-05	sod3	superoxide di	ENSG00000109610
891	ENSXETG00000004692	-1.189399408	3.14E-10	DCHS1		ENSG00000166341
892	ENSXETG00000008469	-1.189285762	7.08E-07	ttc30a	tetratricopep	ENSG00000196659,ENSG00000197557
893	ENSXETG00000003449	-1.18907645	0.001126529	kcnt1	potassium ch	ENSG00000107147
894	ENSXETG00000012041	-1.188961932	0.001938711	creb5	cAMP respon	ENSG00000146592
895	ENSXETG00000000161	-1.188828977	3.82E-32	sae1	SUMO1 activa	ENSG00000142230
896	ENSXETG00000016981	-1.188494478	0.005412218	lrrc9	leucine rich re	ENSG00000131951
897	ENSXETG00000007747	-1.18762811	0.004267462	sh3gl3	SH3-domain G	ENSG00000140600
898	ENSXETG00000018892	-1.187227917	9.24E-16	ptch2	patched 2	ENSG00000117425
899	ENSXETG00000002049	-1.186676799	5.98E-07	c21orf91	chromosome	ENSG00000154642
900	ENSXETG00000006011	-1.185818467	0.005673314	slc45a1	solute carrier	ENSG00000162426
901	ENSXETG00000004850	-1.185242523	0	cebpd	CCAAT/enhan	ENSG00000221869
902	ENSXETG00000012541	-1.184924912	0.001391064	dnajb13	DnaJ heat sho	ENSG00000187726
903	ENSXETG00000014232	-1.184363757	0.000884471	sema3a	semaphorin 3	ENSG00000075213
904	ENSXETG00000002008	-1.18430761	6.19E-119	lama5	laminin subur	ENSG00000130702
905	ENSXETG00000021660	-1.18303311	4.53E-05	scarf2	scavenger rec	ENSG00000244486
906	ENSXETG00000017730	-1.182388299	0.001514956	wdr93	WD repeat do	ENSG00000140527
907	ENSXETG00000000593	-1.182344556	2.57E-19	pcolce2	procollagen C	ENSG00000163710
908	ENSXETG00000030461	-1.179931537	0.002093426	ENSXETG00000030461		ENSG00000101004
909	ENSXETG00000022070	-1.178641464	1.37E-14	ehd3	EH domain co	ENSG00000013016
910	ENSXETG00000005513	-1.178499622	1.92E-41	lrrn4	leucine rich re	ENSG00000125872
911	ENSXETG00000012742	-1.178375083	0.003039215	ENSXETG00000012742		ENSG00000134028
912	ENSXETG00000025095	-1.176516741	0.003701353	sh3bgr	SH3 domain b	ENSG00000185437
913	ENSXETG00000018124	-1.17642149	8.62E-267	cldn2	claudin 2	ENSG00000165376
914	ENSXETG00000002597	-1.175844942	3.23E-05	lpar1	lysophosphat	ENSG00000198121
915	ENSXETG00000007431	-1.175694317	4.79E-05	adam22	ADAM metall	ENSG00000008277
916	ENSXETG00000011297	-1.175448059	2.70E-06	ccdc112	coiled-coil do	ENSG00000164221
917	ENSXETG00000026476	-1.175151701	8.17E-05	arl6	ADP ribosylat	ENSG00000113966
918	ENSXETG00000030529	-1.17511903	1.81E-13	LYPD6B		ENSG00000150556
919	ENSXETG00000010230	-1.174471022	2.66E-07	grk5	G protein-cou	ENSG00000198873
920	ENSXETG00000000244	-1.173995453	0.001526623	brinp1	bone morpho	ENSG00000078725
921	ENSXETG00000013827	-1.173994136	0.00359575	tmem255b	transmembra	ENSG00000184497
922	ENSXETG00000001812	-1.173679139	3.53E-25	postn	periostin, ost	ENSG00000133110
923	ENSXETG00000022580	-1.171757239	5.32E-05	nhsl2	NHS like 2	ENSG00000204131
924	ENSXETG00000002598	-1.170981192	3.84E-05	paqr6	progestin and	ENSG00000160781
925	ENSXETG00000013747	-1.170847895	4.04E-08	ca1	carbonic anhy	ENSG00000133742
926	ENSXETG00000000061	-1.17058968	0.000909747	dnal1	dynein, axone	ENSG00000119661
927	ENSXETG00000018908	-1.170405015	1.74E-31	rgcc	regulator of c	ENSG00000102760
928	ENSXETG00000006930	-1.170349685	4.43E-27	kctd1	potassium ch	ENSG00000134504
929	ENSXETG00000000073	-1.169004229	1.05E-38	manf	mesencephal	ENSG00000145050
930	ENSXETG00000000722	-1.168412109	0.001812586	hoxa7	homeobox A7	ENSG00000122592
931	ENSXETG00000000775	-1.168193455	1.81E-09	clstn1	calsyntenin 1	ENSG00000171603
932	ENSXETG00000011541	-1.167602092	1.37E-09	p3h3	prolyl 3-hydro	ENSG00000110811
933	ENSXETG00000015705	-1.167009493	9.71E-33	qki	QKI, KH doma	ENSG00000112531
934	ENSXETG00000018025	-1.165378838	0.003094417	slc22a23	solute carrier	ENSG00000137767
935	ENSXETG00000013612	-1.164889342	1.89E-139	app	amyloid beta	ENSG00000142192
936	ENSXETG00000030071	-1.162875619	3.85E-34	SLC12A2		ENSG00000064651
937	ENSXETG00000001314	-1.161883175	4.68E-06	tulp3	tubby like pro	ENSG00000078246
938	ENSXETG00000006497	-1.160770874	0.002914667	XB-GENE-980117	Putative orth	ENSG00000114200
939	ENSXETG00000003796	-1.160510002	0.005820117	shank2	SH3 and mult	ENSG00000162105
940	ENSXETG00000014034	-1.160422725	1.33E-12	lix1l	limb and CNS	ENSG00000271601
941	ENSXETG00000000689	-1.15991661	8.45E-16	pdgfrl	platelet deriv	ENSG00000104213
942	ENSXETG00000010865	-1.159108669	1.95E-25	aldh1a2	aldehyde deh	ENSG00000128918
943	ENSXETG00000009045	-1.158529882	5.13E-11	satb1	SATB homeob	ENSG00000182568
944	ENSXETG00000001438	-1.155963595	2.70E-12	cpm	carboxypeptid	ENSG00000135678
945	ENSXETG00000016967	-1.155557696	4.86E-13	ltbp4	latent transfo	ENSG00000090006
946	ENSXETG00000025183	-1.154827488	1.33E-05	hoxc5	homeobox C5	ENSG00000273049,ENSG00000172789
947	ENSXETG00000015784	-1.15422542	0.00092219	gpr143	G protein-cou	ENSG00000101850
948	ENSXETG00000007699	-1.154152437	1.58E-47	pnck	pregnancy up	ENSG00000130822
949	ENSXETG00000003286	-1.153182231	3.60E-46	cnn1	calponin 1, ba	ENSG00000064666
950	ENSXETG00000000793	-1.153041012	8.79E-09	slc24a3	solute carrier	ENSG00000185052
951	ENSXETG00000027607	-1.152979468	1.65E-29	vopp1	vesicular, ove	ENSG00000154978
952	ENSXETG00000007462	-1.152421151	7.27E-154	vim	vimentin	ENSG00000026025
953	ENSXETG00000005117	-1.151752342	1.38E-06	bicc1	BicC family R	ENSG00000122870

954	ENSXETG00000006863	-1.151399886	0.005618263	has2	hyaluronan sy	ENSG00000170961
955	ENSXETG00000022951	-1.151219019	7.40E-09	prkce	protein kinase	ENSG00000171132
956	ENSXETG00000018532	-1.151020599	5.11E-07	iffo2	intermediate	ENSG00000169991,ENSG00000255275
957	ENSXETG00000030759	-1.150199462	2.36E-59	rtp3		ENSG00000163825,ENSG00000175077,ENSG00000136514,ENSG00000198471
958	ENSXETG00000021344	-1.150067951	8.17E-26	fyn	FYN proto-on	ENSG00000010810
959	ENSXETG00000013925	-1.148355013	0.003902123	cfap58	cilia and flage	ENSG00000120051
960	ENSXETG00000013340	-1.148198763	1.44E-05	egfl6	EGF-like-dom	ENSG00000198759
961	ENSXETG00000015816	-1.147969609	0.000202061	blvra	biliverdin red	ENSG00000106605
962	ENSXETG00000018927	-1.146675528	5.25E-14	ppp2r3a	protein phosp	ENSG00000073711
963	ENSXETG00000023425	-1.145381364	0.000270431	akr1c2	aldo-keto red	ENSG00000187134,ENSG00000151632,ENSG00000196139,ENSG00000198610
964	ENSXETG00000027611	-1.145204523	0.006027208	wnt7a	wingless-type	ENSG00000154764
965	ENSXETG00000011974	-1.145135929	6.37E-05	moxd1	monooxygena	ENSG00000079931
966	ENSXETG00000017550	-1.144670704	5.10E-14	znf217	zinc finger pr	ENSG00000171940
967	ENSXETG00000022577	-1.144343261	2.71E-11	carmil3	capping prote	ENSG00000186648
968	ENSXETG00000011560	-1.143458897	4.31E-05	foxp2	forkhead box	ENSG00000128573
969	ENSXETG00000011566	-1.143382251	0.00011047	tfec	transcription	ENSG00000105967
970	ENSXETG00000010225	-1.141855675	6.59E-07	ENSXETG00000010225		ENSG00000236279,ENSG00000139187,ENSG00000069493,ENSG00000188883,ENSG00000110852,ENSG00000110848,ENSG00000188393
971	ENSXETG00000012944	-1.140383614	2.18E-35	foxo6	forkhead box	ENSG00000204060
972	ENSXETG00000010461	-1.139506352	3.93E-33	rgs4	regulator of G	ENSG00000117152
973	ENSXETG00000024790	-1.139437447	0.001005494	kif3c	kinesin family	ENSG00000084731
974	ENSXETG00000014319	-1.138348028	0.008291656	eno4	enolase famil	ENSG00000188316
975	ENSXETG00000014617	-1.138345828	1.11E-08	osgin2	oxidative stre	ENSG00000164823
976	ENSXETG00000027106	-1.137059297	2.26E-06	ngb	neuroglobin	ENSG00000165553
977	ENSXETG00000005336	-1.136616686	0.003323327	ENSXETG00000005336		ENSG00000224383
978	ENSXETG00000003528	-1.136517636	0.002360846	hpdl	4-hydroxyphe	ENSG00000186603
979	ENSXETG00000000679	-1.136330984	3.09E-53	fgl1	fibrinogen like	ENSG00000104760
980	ENSXETG00000001839	-1.135409019	2.01E-06	fhdc1	FH2 domain c	ENSG00000137460
981	ENSXETG00000006766	-1.134892323	1.99E-12	c9	complement	ENSG00000113600
982	ENSXETG00000014716	-1.134648227	1.71E-07	tbkbp1	TBK1 binding	ENSG00000198933
983	ENSXETG00000020597	-1.134127669	2.28E-09	efemp2	EGF containin	ENSG00000172638
984	ENSXETG00000009835	-1.134092716	7.14E-15	cercam	cerebral endo	ENSG00000167123
985	ENSXETG00000009846	-1.133985762	0.000242702	ENSXETG00000009846		ENSG00000106608
986	ENSXETG00000010474	-1.13379034	8.20E-34	c19orf12	chromosome	ENSG00000131943
987	ENSXETG00000020978	-1.132948821	2.06E-11	ROBO2		ENSG00000185008
988	ENSXETG00000020965	-1.132864128	2.31E-05	rnf34	ring finger pr	ENSG00000170633
989	ENSXETG00000030224	-1.132863672	0.008641462	ENSXETG00000030224		ENSG00000140527
990	ENSXETG00000003068	-1.132477901	0.005193153	ribc2	RIB43A doma	ENSG00000128408
991	ENSXETG00000005782	-1.130303878	0.008805731	col8a1	collagen, type	ENSG00000144810
992	ENSXETG00000004118	-1.130032906	0	azin1	antizyme inhi	ENSG00000155096
993	ENSXETG00000019945	-1.129922537	0.001820383	slc35e4	solute carrier	ENSG00000100036
994	ENSXETG00000011704	-1.129358471	2.16E-10	flrt2	fibronectin le	ENSG00000185070
995	ENSXETG00000030120	-1.129239926	0.008755993	LGALS12		ENSG00000133317
996	ENSXETG00000018133	-1.129147609	4.92E-06	rab9b	RAB9B, memb	ENSG00000123570
997	ENSXETG00000000154	-1.128669956	2.60E-05	mitf	microphthalm	ENSG00000187098
998	ENSXETG00000012171	-1.12763262	1.37E-07	boc	BOC cell adhe	ENSG00000144857
999	ENSXETG00000020218	-1.127469435	1.94E-29	tmem204	transmembra	ENSG00000131634
1000	ENSXETG00000003253	-1.127209093	0.008963822	pik3r3	phosphoinosi	ENSG00000117461,ENSG00000278139
1001	ENSXETG00000023938	-1.127109568	5.23E-109	tnc	tenascin C	ENSG00000041982
1002	ENSXETG00000014793	-1.126178544	2.36E-28	rcc2	regulator of c	ENSG00000179051
1003	ENSXETG00000018044	-1.124759368	5.09E-15	gan	gigaxonin	ENSG00000261609
1004	ENSXETG00000021989	-1.123689062	9.47E-14	st6galnac4	ST6 (alpha-N-	ENSG00000136840
1005	ENSXETG00000021179	-1.123619043	2.73E-08	adcy3	adenylate cyc	ENSG00000138031
1006	ENSXETG00000002702	-1.123390766	0.008772467	mmp24	matrix metall	ENSG00000125966
1007	ENSXETG00000015152	-1.122955976	0.007741941	ikzf3	IKAROS family	ENSG00000161405
1008	ENSXETG00000015044	-1.122163025	9.76E-18	il1rap	interleukin 1	ENSG00000196083
1009	ENSXETG00000027677	-1.122135487	1.18E-24	aldoc	aldolase, fruc	ENSG00000109107
1010	ENSXETG00000019661	-1.121944666	5.28E-06	abcc1	ATP binding c	ENSG00000103222
1011	ENSXETG00000008149	-1.121290704	4.35E-10	nfic	nuclear facto	ENSG00000141905
1012	ENSXETG00000010940	-1.120995255	0.006489766	bmp8	bone morpho	ENSG00000116985,ENSG00000183682
1013	ENSXETG00000014130	-1.120413775	1.02E-05	ENSXETG00000014130		ENSG00000175575
1014	ENSXETG00000031039	-1.120316176	0.000183783	F13A1		ENSG00000124491
1015	ENSXETG00000026569	-1.119852007	1.40E-09	nmu	neuromedin U	ENSG00000109255
1016	ENSXETG00000004763	-1.119359036	1.41E-24	prdx2	peroxiredoxin	ENSG00000167815
1017	ENSXETG00000013061	-1.118507068	0.000161578	yjefn3	YjeF N-termin	ENSG00000250067
1018	ENSXETG00000006883	-1.117538421	9.13E-17	cacfd1	calcium chann	ENSG00000160325
1019	ENSXETG00000002292	-1.117179718	2.48E-88	acly	ATP citrate ly	ENSG00000131473
1020	ENSXETG00000008953	-1.116516218	3.44E-08	tada2a	transcriptiona	ENSG00000276234
1021	ENSXETG00000027834	-1.11596107	0.00968373	MAEL		ENSG00000143194
1022	ENSXETG00000018430	-1.115896532	4.11E-17	nkx2-3	NK2 homeob	ENSG00000183072,ENSG00000119919,ENSG00000180053
1023	ENSXETG00000016685	-1.114838957	2.75E-41	hps5	Hermansky-P	ENSG00000110756
1024	ENSXETG00000000847	-1.114665498	1.05E-11	ENSXETG00000000847		ENSG00000169919
1025	ENSXETG00000022299	-1.113936617	1.71E-13	anos1	anosmin 1	ENSG00000011201
1026	ENSXETG00000000135	-1.113813207	1.40E-28	crip2	cysteine-rich	ENSG00000182809
1027	ENSXETG00000023585	-1.113778989	1.52E-05	dpysl4	dihydropyrim	ENSG00000151640
1028	ENSXETG00000004379	-1.112967789	0.005404992	ANGPT2		ENSG00000091879
1029	ENSXETG00000019848	-1.111441727	1.86E-05	gas8	growth arrest	ENSG00000141013
1030	ENSXETG00000021297	-1.110689277	0.010076573	ENSXETG00000021297		ENSG00000155085
1031	ENSXETG00000002112	-1.110501185	0.003909648	igf1r	insulin like gr	ENSG00000140443
1032	ENSXETG00000017408	-1.110216656	2.58E-08	rrad	Ras-related a	ENSG00000166592
1033	ENSXETG00000000524	-1.109437705	0.000549794	ankrd45	ankyrin repea	ENSG00000183831
1034	ENSXETG00000010782	-1.109327039	0.009814344	gulp1	GULP, engulfr	ENSG00000144366
1035	ENSXETG00000016887	-1.108257205	4.34E-09	nfatc4	nuclear facto	ENSG00000100968
1036	ENSXETG00000018202	-1.108045463	0.010091184	fam228b	family with se	ENSG00000276087,ENSG00000186453,ENSG00000219626
1037	ENSXETG00000019687	-1.106369261	1.11E-23	tubb6	tubulin beta 6	ENSG00000176014
1038	ENSXETG00000011962	-1.106111876	1.18E-28	dact1	dishevelled-b	ENSG00000165617
1039	ENSXETG00000013408	-1.104854617	5.61E-08	baiap2	BAI1-associat	ENSG00000175866
1040	ENSXETG00000022983	-1.104816997	0.006732608	gprc5a	G protein-cou	ENSG00000013588,ENSG00000111291
1041	ENSXETG00000021263	-1.104028438	4.79E-05	ENSXETG00000021263	uncharacteriz	ENSG00000124196
1042	ENSXETG00000014598	-1.103895736	0.010215103	tmem55a	phosphatidyli	ENSG00000155099
1043	ENSXETG00000026821	-1.103874926	0.010584523	daw1	dynein assem	ENSG00000123977
1044	ENSXETG00000015525	-1.103690542	0.000783965	arsj	arylsulfatase	ENSG00000180801
1045	ENSXETG00000024946	-1.103090624	0.00169005	comt.2	catechol-O-m	ENSG00000093010
1046	ENSXETG00000011611	-1.102341484	1.23E-05	afap1	actin filament	ENSG00000196526
1047	ENSXETG00000013334	-1.101093596	1.19E-05	osbpl8	oxysterol bind	ENSG00000091039
1048	ENSXETG00000003828	-1.100360425	0.006407811	gfpt2	glutamine-fru	ENSG00000131459
1049	ENSXETG00000021296	-1.099570461	0.007068125	ppil6	peptidylproly	ENSG00000185250
1050	ENSXETG00000030673	-1.099381494	2.98E-13	PREX2		ENSG00000046889
1051	ENSXETG00000030823	-1.098924538	3.89E-26	rspo1		ENSG00000169218
1052	ENSXETG00000001227	-1.098212897	0.000348421	dpysl5	dihydropyrim	ENSG00000157851
1053	ENSXETG00000024588	-1.096845883	5.63E-77	g6pc		ENSG00000131482
1054	ENSXETG00000016414	-1.096095253	6.02E-28	emid1	EMI domain c	ENSG00000186998
1055	ENSXETG00000001366	-1.094802885	2.59E-11	mrc1	mannose rece	ENSG00000260314
1056	ENSXETG00000022840	-1.094727551	0.001880976	adgrl1	adhesion G pr	ENSG00000072071
1057	ENSXETG00000018275	-1.094264985	2.09E-08	slc1a5	solute carrier	ENSG00000105281
1058	ENSXETG00000013760	-1.093282304	2.14E-06	ttl	tubulin tyrosi	ENSG00000114999
1059	ENSXETG00000021603	-1.09327458	0.009921436	thy1	Thy-1 cell sur	ENSG00000154096
1060	ENSXETG00000010363	-1.092846318	5.25E-12	tekt1	tektin 1	ENSG00000167858
1061	ENSXETG00000004614	-1.09259125	0.009167552	brsk2	BR serine/thr	ENSG00000174672
1062	ENSXETG00000026537	-1.092078239	4.08E-101	gadd45g	growth arrest	ENSG00000130222
1063	ENSXETG00000011378	-1.091171998	8.19E-31	ptprb	protein tyrosi	ENSG00000127329
1064	ENSXETG00000027686	-1.091093692	8.54E-51	serpinf1	serpin peptid	ENSG00000132386
1065	ENSXETG00000026101	-1.090952732	4.90E-181	fkbp1b	FK506 binding	ENSG00000119782
1066	ENSXETG00000010898	-1.090898705	1.79E-243	fn1	fibronectin 1	ENSG00000115414
1067	ENSXETG00000018604	-1.090897052	6.02E-54	cldn5	claudin 5 (tra	ENSG00000184113
1068	ENSXETG00000016992	-1.090430674	2.01E-06	tmem121	transmembra	ENSG00000185674,ENSG00000144214
1069	ENSXETG00000009994	-1.089752448	0.00691136	mycbpap	MYCBP assoc	ENSG00000136449
1070	ENSXETG00000021181	-1.088738344	0.005989626	pcdh9	protocadheri	ENSG00000184226
1071	ENSXETG00000018901	-1.088687344	1.42E-14	qprt	quinolinate p	ENSG00000103485,ENSG00000277669
1072	ENSXETG00000023781	-1.088445247	0.000136931	c2orf50	chromosome	ENSG00000150873
1073	ENSXETG00000004581	-1.087133483	0.003244164	slc16a2	solute carrier	ENSG00000147100
1074	ENSXETG00000013171	-1.087060537	0.011589266	kcnh7	potassium vo	ENSG00000184611
1075	ENSXETG00000018660	-1.086771612	1.40E-11	tpbg	trophoblast g	ENSG00000146242
1076	ENSXETG00000010530	-1.086672446	2.19E-35	c1qb	complement	ENSG00000173369
1077	ENSXETG00000010915	-1.086217642	6.12E-05	arl4c	ADP ribosylat	ENSG00000188042
1078	ENSXETG00000014500	-1.086011542	2.99E-05	micu3	mitochondria	ENSG00000155970
1079	ENSXETG00000007433	-1.085480022	0.008218407	ENSXETG00000007433		ENSG00000004846
1080	ENSXETG00000001251	-1.085377369	9.15E-18	sema4c	semaphorin 4	ENSG00000168758
1081	ENSXETG00000012174	-1.085280081	3.47E-27	nfe2l3	nuclear facto	ENSG00000050344
1082	ENSXETG00000018928	-1.085144392	2.48E-06	ccdc173	coiled-coil do	ENSG00000154479
1083	ENSXETG00000002417	-1.084959795	4.86E-27	nme7	NME/NM23 f	ENSG00000143156
1084	ENSXETG00000022668	-1.084517627	6.75E-06	grap	GRB2-related	ENSG00000154016,ENSG00000189152
1085	ENSXETG00000014740	-1.084514468	1.09E-08	arhgap23	Rho GTPase a	ENSG00000275832
1086	ENSXETG00000001325	-1.083210262	4.75E-13	nog	noggin	ENSG00000183691
1087	ENSXETG00000000581	-1.08268704	3.61E-14	fmnl3	formin like 3	ENSG00000161791
1088	ENSXETG00000010042	-1.082609608	2.77E-71	gusb	glucuronidase	ENSG00000169919
1089	ENSXETG00000016426	-1.08219883	7.02E-44	ca14	carbonic anhy	ENSG00000118298
1090	ENSXETG00000011655	-1.082067477	9.08E-24	zeb1	zinc finger E-b	ENSG00000148516
1091	ENSXETG00000010630	-1.081180007	0.002753429	soga3	SOGA family	ENSG00000214338,ENSG00000255330
1092	ENSXETG00000009209	-1.081132478	0.004539697	cldn11	claudin 11 (ol	ENSG00000013297
1093	ENSXETG00000002734	-1.080839803	8.06E-28	hlx	H2.0 like hom	ENSG00000136630
1094	ENSXETG00000024468	-1.078473497	7.62E-49	mfap4	microfibril ass	ENSG00000166482
1095	ENSXETG00000021136	-1.078328706	0.012479428	cplx3	complexin 3	ENSG00000140506
1096	ENSXETG00000017530	-1.077303888	0.002861062	stmn4	stathmin 4	ENSG00000015592
1097	ENSXETG00000000717	-1.077293571	1.11E-10	hoxa3	homeobox A3	ENSG00000105997,ENSG00000128652,ENSG00000120093
1098	ENSXETG00000019471	-1.077159848	3.17E-06	tp53inp2	tumor protein	ENSG00000078804
1099	ENSXETG00000016321	-1.077042	1.68E-09	glp2r	glucagon-like	ENSG00000065325
1100	ENSXETG00000017604	-1.076933061	2.77E-44	nbl1	neuroblastom	ENSG00000270136,ENSG00000158747
1101	ENSXETG00000018507	-1.076827511	2.59E-06	klhl5	kelch like fam	ENSG00000109790
1102	ENSXETG00000030771	-1.076108312	0.011184124	PLAC8		ENSG00000145287
1103	ENSXETG00000017151	-1.07597113	2.01E-05	zfhx4	zinc finger ho	ENSG00000091656
1104	ENSXETG00000000797	-1.075619827	0.008023901	faxc	failed axon co	ENSG00000146267
1105	ENSXETG00000014016	-1.075354334	5.58E-97	lsp1	lymphocyte-s	ENSG00000130592
1106	ENSXETG00000022354	-1.07460395	3.09E-10	nos1	nitric oxide sy	ENSG00000089250
1107	ENSXETG00000030679	-1.074389682	1.16E-05	pde1a		ENSG00000115252
1108	ENSXETG00000025417	-1.074373672	7.13E-08	XB-GENE-5807237	hypothetical	ENSG00000170426,ENSG00000139547,ENSG00000025423
1109	ENSXETG00000012519	-1.073234706	1.64E-05	fam84a	family with se	ENSG00000162981
1110	ENSXETG00000023610	-1.072623518	0.00100559	ghsr	growth horm	ENSG00000121853
1111	ENSXETG00000010876	-1.072231174	1.07E-08	cgnl1	cingulin-like 1	ENSG00000128849
1112	ENSXETG00000007844	-1.071839923	0.010617703	frmd5	FERM domain	ENSG00000171877
1113	ENSXETG00000012621	-1.071252989	0.007412157	galr2	galanin recep	ENSG00000182687
1114	ENSXETG00000031120	-1.070938789	3.96E-14	CH25H		ENSG00000138135
1115	ENSXETG00000001563	-1.070556785	3.10E-159	pdlim3	PDZ and LIM	ENSG00000154553
1116	ENSXETG00000021893	-1.070530255	2.50E-36	angptl4	angiopoietin	ENSG00000167772
1117	ENSXETG00000013266	-1.069489685	9.24E-05	s1pr1	sphingosine-1	ENSG00000170989
1118	ENSXETG00000024348	-1.068458048	0.004319582	vwa3b	von Willebrar	ENSG00000168658
1119	ENSXETG00000003758	-1.068392984	5.51E-31	rhof	ras homolog f	ENSG00000139725
1120	ENSXETG00000015225	-1.068200573	3.07E-06	arl3.1	ADP ribosylat	ENSG00000138175
1121	ENSXETG00000011574	-1.067951135	0.004167461	kiaa1549	KIAA1549	ENSG00000122778
1122	ENSXETG00000003381	-1.066074994	0.01348647	mpp2	membrane pr	ENSG00000108852
1123	ENSXETG00000012207	-1.065721645	0.001415577	pla2g1b	phospholipas	ENSG00000170890
1124	ENSXETG00000018086	-1.065703155	4.61E-23	adamtsl4	ADAMTS like	ENSG00000143382
1125	ENSXETG00000004500	-1.065036722	1.03E-07	mcm8	minichromos	ENSG00000125885
1126	ENSXETG00000017504	-1.064597956	5.71E-05	nrg1	neuregulin 1	ENSG00000157168
1127	ENSXETG00000025778	-1.064370419	5.63E-12	oxnad1	oxidoreducta	ENSG00000154814
1128	ENSXETG00000022175	-1.062901341	0.010766499	tmem132c	transmembra	ENSG00000181234
1129	ENSXETG00000008172	-1.062781035	0.001859224	wt1	Wilms tumor	ENSG00000184937
1130	ENSXETG00000005500	-1.062067257	7.88E-39	lrpap1	LDL receptor	ENSG00000163956
1131	ENSXETG00000002284	-1.061947188	2.94E-08	p3h4	prolyl 3-hydro	ENSG00000141696
1132	ENSXETG00000022286	-1.061092604	6.95E-08	fam89a	family with se	ENSG00000182118
1133	ENSXETG00000020090	-1.060602818	6.81E-99	pfn2	profilin 2	ENSG00000070087
1134	ENSXETG00000024011	-1.060361616	0.008360642	sox12	SRY-box 12	ENSG00000176887,ENSG00000177732,ENSG00000124766
1135	ENSXETG00000015954	-1.06018526	1.39E-61	kdelr3	KDEL endopla	ENSG00000100196
1136	ENSXETG00000012328	-1.060087648	0.009572269	ubxn11	UBX domain p	ENSG00000158062
1137	ENSXETG00000023331	-1.059389124	4.22E-09	urb2	URB2 riboson	ENSG00000135763
1138	ENSXETG00000010660	-1.057682093	0.000310669	cpeb1	cytoplasmic p	ENSG00000214575,ENSG00000260836
1139	ENSXETG00000023030	-1.05724561	2.66E-06	tgfbr3	transforming	ENSG00000069702
1140	ENSXETG00000024325	-1.056871362	1.20E-12	adgra2	adhesion G pr	ENSG00000020181
1141	ENSXETG00000017281	-1.055560308	0.007077949	ttc16	tetratricopep	ENSG00000167094
1142	ENSXETG00000015595	-1.054878414	0.005865337	npr3	natriuretic pe	ENSG00000113389
1143	ENSXETG00000001999	-1.054583085	2.18E-06	ss18l1	synovial sarco	ENSG00000184402
1144	ENSXETG00000006616	-1.054402028	4.47E-20	c8orf76	chromosome	ENSG00000189376,ENSG00000259305
1145	ENSXETG00000024006	-1.053776207	4.05E-06	snai2	snail family zi	ENSG00000019549
1146	ENSXETG00000014101	-1.05362189	7.96E-16	tet2	tet methylcyt	ENSG00000168769
1147	ENSXETG00000001252	-1.053614918	0.015080488	kirrel2	kirre like neph	ENSG00000126259
1148	ENSXETG00000012911	-1.053094885	5.59E-303	actc1	actin, alpha, c	ENSG00000159251
1149	ENSXETG00000009700	-1.051811411	2.76E-26	rin2	Ras and Rab i	ENSG00000132669
1150	ENSXETG00000015428	-1.050709685	0.015222446	nhlrc1	NHL repeat co	ENSG00000187566
1151	ENSXETG00000001628	-1.049756712	2.68E-10	plod2	procollagen-l	ENSG00000152952
1152	ENSXETG00000010315	-1.049408038	0.009014586	ppp4r4	protein phosp	ENSG00000119698
1153	ENSXETG00000017823	-1.049368894	0.001126149	plxnb1	plexin B1	ENSG00000164050
1154	ENSXETG00000024642	-1.048836499	0.006375162	fjx1	four jointed b	ENSG00000179431
1155	ENSXETG00000018095	-1.047965463	3.85E-27	grem1	gremlin 1, DA	ENSG00000166923
1156	ENSXETG00000031173	-1.047910398	3.03E-09	MORC1		ENSG00000114487
1157	ENSXETG00000015011	-1.047493829	3.12E-06	OSBPL6		ENSG00000079156
1158	ENSXETG00000013088	-1.046464759	0.002383056	ENSXETG00000013088		ENSG00000163534,ENSG00000160856,ENSG00000198019,ENSG00000181036,ENSG00000179639,ENSG00000132185,ENSG00000163518,ENSG00000244682,ENSG00000072694,ENSG00000162746,ENSG00000143226,ENSG00000162747,ENSG00000150337,ENSG00000203747,ENSG00000143297,ENSG00000132704
1159	ENSXETG00000030654	-1.046333141	0.010834829	ENSXETG00000030654		ENSG00000066923
1160	ENSXETG00000018010	-1.046240536	0.015201891	insrr	insulin recept	ENSG00000027644
1161	ENSXETG00000007042	-1.045917099	0.000162993	ren	renin	ENSG00000143839
1162	ENSXETG00000017114	-1.045447753	0.015850791	dclk2	doublecortin	ENSG00000133083
1163	ENSXETG00000007541	-1.045326786	7.19E-06	fbxl7	F-box and leu	ENSG00000183580
1164	ENSXETG00000018609	-1.04492031	3.36E-12	trpv4	transient rece	ENSG00000111199
1165	ENSXETG00000030384	-1.044835166	0.000775593	ENSXETG00000030384		ENSG00000164451
1166	ENSXETG00000012949	-1.044787414	1.69E-10	ctps1	CTP synthase	ENSG00000171793
1167	ENSXETG00000023738	-1.044766609	0.012668067	casq2	calsequestrin	ENSG00000118729
1168	ENSXETG00000003417	-1.044382053	0.001563006	arhgap19	Rho GTPase a	ENSG00000213390,ENSG00000269891
1169	ENSXETG00000017124	-1.044157529	0.005812845	mab21l1	mab-21-like 1	ENSG00000180660
1170	ENSXETG00000006733	-1.042890985	0.000262139	n4bp3	NEDD4 bindin	ENSG00000145911
1171	ENSXETG00000004005	-1.042669699	0	gal3st4		ENSG00000197093
1172	ENSXETG00000004287	-1.042636649	2.50E-10	ptprm	protein tyrosi	ENSG00000173482
1173	ENSXETG00000002453	-1.042570905	0.012036856	wdr17	WD repeat do	ENSG00000150627
1174	ENSXETG00000011791	-1.04235226	0.000440647	flt1	fms-related ty	ENSG00000102755
1175	ENSXETG00000016491	-1.042211567	0.000588559	FRMD6		ENSG00000139926
1176	ENSXETG00000012420	-1.041867271	0.009802139	capn6	calpain 6	ENSG00000077274
1177	ENSXETG00000027906	-1.041289859	2.07E-12	vip	vasoactive int	ENSG00000146469
1178	ENSXETG00000013609	-1.039720778	1.49E-29	jam2	junctional adh	ENSG00000154721
1179	ENSXETG00000019115	-1.039589457	0.016332168	rragd	Ras related G	ENSG00000025039
1180	ENSXETG00000013449	-1.039540636	0.013557457	rsg1	REM2 and RA	ENSG00000132881
1181	ENSXETG00000012860	-1.038480814	0.014722444	lhfpl1	LHFPL tetrasp	ENSG00000182508
1182	ENSXETG00000002320	-1.037582571	1.36E-25	lars	leucyl-tRNA s	ENSG00000133706
1183	ENSXETG00000020369	-1.036969958	0.00386207	sgip1	SH3-domain G	ENSG00000118473
1184	ENSXETG00000001463	-1.036667644	1.34E-06	ift122	intraflagellar	ENSG00000163913
1185	ENSXETG00000002609	-1.036249545	1.25E-21	svep1	sushi, von Wi	ENSG00000165124
1186	ENSXETG00000004750	-1.036010221	2.29E-06	rxrg	retinoid X rec	ENSG00000143171
1187	ENSXETG00000001242	-1.035049418	1.73E-45	clmp	CXADR-like m	ENSG00000166250
1188	ENSXETG00000020864	-1.034712226	0.00104512	ppp2r2b	protein phosp	ENSG00000156475
1189	ENSXETG00000008397	-1.034400545	6.49E-32	ampd3	adenosine mo	ENSG00000133805
1190	ENSXETG00000003020	-1.034382392	0.000106758	gpr55	G protein-cou	ENSG00000135898
1191	ENSXETG00000007772	-1.033959388	1.81E-09	plch1	phospholipas	ENSG00000114805
1192	ENSXETG00000011941	-1.03366753	5.58E-14	tmem132a	transmembra	ENSG00000006118

1193	ENSBETG00000021974	-1.033612057	0.051280167	abcus10	ATP binding c	ENSG00000154363,ENSG00000141338,ENSG00000154362,ENSG00000154258
1194	ENSBETG00000011849	-1.033107266	1.13E-84	ldh2d	lactch like fam	ENSG00000114796
1195	ENSBETG00000026166	-1.033013816	0.017069367	ar11a	ADP-ribosyla	ENSG00000174225
1196	ENSBETG00000010164	-1.032795361	0.008288046	layn	layilin	ENSG00000204381
1197	ENSBETG00000026206	-1.032682009	0.000354897	ewsr1	ewsrelative stre	ENSG00000186648
1198	ENSBETG00000018061	-1.03251792	0.000460842	fam98b	family with s	ENSG00000171362
1199	ENSBETG00000026743	-1.03086085	2.71E-14	ENSDATG00000026743		ENSG00000188125
1200	ENSBETG00000011227	-1.03027167	0.002744668	slc6-1	SLC6 homeop	ENSG00000136823
1201	ENSBETG00000027638	-1.030237354	1.14E-52	marcks11	MARCKS-like	ENSG00000171330
1202	ENSBETG00000003349	-1.02847065	5.84E-07	pocr5	POCS centrin	ENSG00000152353
1203	ENSBETG00000026678	-1.028368928	0.038025478	ENSDATG00000026678		ENSG00000275713,ENSG00000203814,ENSG00000274290,ENSG00000197903,ENSG00000184678,ENSG00000196890,ENSG00000234289,ENSG00000276410,ENSG00000277703,ENSG00000277724,ENSG00000185110,ENSG00000274641,ENSG00000273802,ENSG00000180596,ENSG00000233822,ENSG00000158373,ENSG00000124635,ENSG00000278588
1204	ENSBETG00000003101	-1.028354393	0.018107638	sdcbp-1	syntin-depen	ENSG00000137494
1205	ENSBETG00000017326	-1.027914889	6.84E-56	bgn		ENSG00000129988,ENSG00000101425
1206	ENSBETG00000010649	-1.02731479	0.012815127	tnfrc1b	TNF-receptors	ENSG00000116981
1207	ENSBETG00000019911	-1.02671158	3.20E-67	slc4a7	solute carrier	ENSG00000036387
1208	ENSBETG00000004532	-1.026674253	0.000625302	ttll5a/ttll2		ENSG00000126369
1209	ENSBETG00000019824	-1.026381381	0.007189243	ttll11	tubulin tyrosi	ENSG00000157764
1210	ENSBETG00000026009	-1.025667136	7.02E-21	pdh5	cadherin 5	ENSG00000179776
1211	ENSBETG00000012114	-1.025183285	4.08E-82	tnip2	TNFAIP3 inte	ENSG00000116884
1212	ENSBETG00000018618	-1.025087953	8.21E-66	atp2b4	ATPase, Ca++	ENSG00000157087
1213	ENSBETG00000008622	-1.02441545	5.80E-74	lamb2	laminin subu	ENSG00000172037
1214	ENSBETG00000004164	-1.024060717	2.26E-18	lgr5a	leucine-rich	ENSG00000139292
1215	ENSBETG00000004779	-1.021835999	9.72E-22	apex1	APEX nuclea	ENSG00000170921
1216	ENSBETG00000019727	-1.021330421	2.82E-15	aga	asparaginyl pe	ENSG00000205381,ENSG00000121053
1217	ENSBETG00000024719	-1.02155649	0.008541311	ahn	alpha-2-macr	ENSG00000175899,ENSG00000129838
1218	ENSBETG00000022198	-1.022734729	9.20E-15	mmp1	matrix metal	ENSG00000115705,ENSG00000262406,ENSG00000118113,ENSG00000149968,ENSG00000196611,ENSG00000166670
1219	ENSBETG00000006364	-1.022114647	0.013330293	tbx1	T-box 1	ENSG00000184058
1220	ENSBETG00000014428	-1.022130584	1.92E-07	ubtd2	ubiquitin dom	ENSG00000168246
1221	ENSBETG00000004120	-1.021879548	2.13E-19	kif10	Kinesin-like	ENSG00000150290
1222	ENSBETG00000016964	-1.020793778	6.15E-08	bmb-d11	BTB (POZ) do	ENSG00000115136
1223	ENSBETG00000009615	-1.02045953	0	bpm2	trypanosom	ENSG00000138461
1224	ENSBETG00000010879	-1.019915955	9.95E-05	nphl0	nephrol spoke	ENSG00000172426
1225	ENSBETG00000006349	-1.018535755	7.80E-09	ankrd11	ankyrin rich repe	ENSG00000198056
1226	ENSBETG00000016435	-1.01956888	2.09E-07	psmc23	proteasa, ser	ENSG00000110987
1227	ENSBETG00000026283	-1.018241641	3.45E-122	gjb3	gap junction	ENSG00000189562
1228	ENSBETG00000015668	-1.017746053	2.30E-21	ENSDATG00000015668		ENSG00000236608
1229	ENSBETG00000024628	-1.017147468	0	hbp2	hemoglobin a	ENSG00000221933,ENSG00000213931,ENSG00000196565
1230	ENSBETG00000013822	-1.015387861	1.46E-05	ftsh5	filaulin 5	ENSG00000182092
1231	ENSBETG00000004603	-1.014722757	1.40E-12	ptp2a7	phosphoprote	ENSG00000146070
1232	ENSBETG00000003938	-1.013483721	0.000019	mbn3	muscleblind	ENSG00000154133
1233	ENSBETG00000016844	-1.012824123	0.019243188	wd938	WD repeat d	ENSG00000136918
1234	ENSBETG00000018940	-1.012127947	1.14E-47	kmtnm1	lysine centa	ENSG00000181761
1235	ENSBETG00000008331	-1.012135195	2.14E-23	rangap1	Ran GTPase a	ENSG00000100401
1236	ENSBETG00000012057	-1.012132569	0.013819892	lscn1	secernin 1	ENSG00000136193
1237	ENSBETG00000022877	-1.011647217	0.018720659	serpini2	serpin peptid	ENSG00000114204
1238	ENSBETG00000021744	-1.008698621	1.13E-10	gtpa3	protein tyros	ENSG00000184489
1239	ENSBETG00000016166	-1.007711071	0.000364933	zdwh2	zwaan domai	ENSG00000120694
1240	ENSBETG00000002339	-1.006710432	8.41E-06	znf423	zinc finger pr	ENSG00000102935
1241	ENSBETG00000024825	-1.006241779	0.000709757	aanfdg	jan d family	ENSG00000178184
1242	ENSBETG00000014900	-1.006224229	2.74E-19	vat1	vesicle amine	ENSG00000108828
1243	ENSBETG00000024488	-1.006185487	0.020571427	lsem	lymphocyte-s	ENSG00000152398
1244	ENSBETG00000021529	-1.005622494	0.000804551	sqlgec1	sialic acid bi	ENSG00000088827
1245	ENSBETG00000019779	-1.004782848	9.52E-62	fscl6	B-cell CLL/ly	ENSG00000113916
1246	ENSBETG00000017123	-1.004416644	4.05E-05	slc38a4	solute carrier	ENSG00000180773
1247	ENSBETG00000012029	-1.003236113	7.89E-05	pace4	Ca+ sulfhydr	ENSG00000087589
1248	ENSBETG00000003160	-1.001853854	7.33E-71	slc10a2		ENSG00000112693
1249	ENSBETG00000023191	-1.001776267	0.015494693	hoat1b2ad	hotone chain	ENSG00000184086
1250	ENSBETG00000004760	-1.001728323	0.008529362	mant1	mannosidase	ENSG00000125613
1251	ENSBETG00000028021	-1.000908781	1.22E-05	ptger1	prostaglandin	ENSG00000160951
1252	ENSBETG00000005912	-1.000423523	1.71E-21	brms1l	breast cancer	ENSG00000159016
1253	ENSBETG00000021042	-1.000048046	1.16E-06	fgfr1l	fibroblast gro	ENSG00000127418