

Table 1.

row	baseMean	log2FoldChai	lfcSE	stat	pvalue	padj	symbol	geneName
ENSMUSG0C	7282.85778	-0.6122422	0.16278323	-3.7610891	0.00016918	0.01465312	Kcmt1	creatine kinase, mitochondrial 1, ubiquitous
ENSMUSG0C	6124.00795	-0.5827758	0.17293936	-3.3698278	0.00075215	0.04337724	Elf3	E74-like factor 3
ENSMUSG0C	2470.29307	-1.3118527	0.22662416	-5.7886708	7.09E-09	2.43E-06	Hck	hemopoietic cell kinase
ENSMUSG0C	8257.53613	-0.3953925	0.12514059	-3.1595859	0.00157994	0.07226174	Etv3	ets variant 3
ENSMUSG0C	14866.6408	-0.3886103	0.09508952	-4.0867837	4.37E-05	0.00531191	Supt5	suppressor of Ty 5, DSIF elongation factor subunit
ENSMUSG0C	108.819687	-3.0558745	0.89218921	-3.4251417	0.00061448	0.03791434	Dll3	delta like canonical Notch ligand 3
ENSMUSG0C	9576.35535	-0.5135715	0.1305447	-3.934066	8.35E-05	0.0090323	Ptpn6	protein tyrosine phosphatase, non-receptor type 6
ENSMUSG0C	5967.71001	-0.5639461	0.13565634	-4.157167	3.22E-05	0.0042022	Igf1r	insulin-like growth factor I receptor
ENSMUSG0C	6636.81785	-1.2225246	0.18661133	-6.5511811	5.71E-11	4.37E-08	Cyp2a5	cytochrome P450, family 2, subfamily a, polypeptide 5
ENSMUSG0C	1265.77993	-0.9730666	0.31238553	-3.1149542	0.00183973	0.0799762	Atp4a	ATPase, H+/K+ exchanging, gastric, alpha polypeptide
ENSMUSG0C	3469.01995	-0.8236313	0.1686576	-4.8834519	1.04E-06	0.00023019	Kit	KIT proto-oncogene receptor tyrosine kinase
ENSMUSG0C	10425.3761	-0.3997963	0.12075535	-3.3107954	0.00093031	0.05024342	Htra1	HtrA serine peptidase 1
ENSMUSG0C	912.505756	-1.1378321	0.30798772	-3.6944075	0.0002204	0.01781283	Neur1a	neurularized E3 ubiquitin protein ligase 1A
ENSMUSG0C	967.564501	-1.2328933	0.27600898	-4.4668593	7.94E-06	0.00137699	Odod4	outer dynein arm complex subunit 4
ENSMUSG0C	4023.8416	-0.8293157	0.17697931	-4.6859473	2.79E-06	0.00056108	Hap1	huntingtin-associated protein 1
ENSMUSG0C	9594.18845	-0.9559726	0.15313644	-6.2426201	4.30E-10	2.74E-07	Atp1a2	ATPase, Na+/K+ transporting, alpha 2 polypeptide
ENSMUSG0C	8078.38783	-0.57429	0.13714147	-4.1875736	2.82E-05	0.00378459	Spib	Spi-B transcription factor (Spi-1/PU.1 related)
ENSMUSG0C	12646.5627	-0.3473662	0.10444371	-3.3258701	0.00088143	0.04794185	Hipk1	homeodomain interacting protein kinase
ENSMUSG0C	10268.2758	-1.7578171	0.13843631	-12.697659	6.09E-37	1.40E-32	Trpm5	transient receptor potential cation channel, subfamily M, member 5
ENSMUSG0C	1053.24832	-1.0110605	0.31284356	-23.218406	0.00122996	0.06207366	Kcnq1	potassium voltage-gated channel, subfamily Q, member 1
ENSMUSG0C	982.977697	-1.0435994	0.33169478	-3.1462643	0.00165371	0.07413573	Spire2	spire type actin nucleation factor 2
ENSMUSG0C	7068.20404	-0.5753438	0.11484847	-5.0095906	5.45E-07	0.00013042	Ehf	ets homologous factor
ENSMUSG0C	1464.44008	-0.9639245	0.28280682	-3.4084201	0.0006534	0.03895464	Castor2	cytosolic arginine sensor for mTORC1 subunit 2
ENSMUSG0C	745.344741	-1.5442397	0.48995169	-3.1518204	0.00162256	0.07331225	Wnt11	wingless-type MMTV integration site family, member 11
ENSMUSG0C	1223.8772	-1.0544194	0.27502438	-8.339123	0.00012612	0.01196222	Il17rb	interleukin 17 receptor B
ENSMUSG0C	3842.4745	-0.7476674	0.14214429	-5.2599188	1.44E-07	3.99E-05	Chdh	choline dehydrogenase
ENSMUSG0C	2447.17681	-0.6819448	0.19096379	-3.5710687	0.00035553	0.02565361	Cadps2	Ca2+-dependent activator protein for secretion 2
ENSMUSG0C	2611.92556	-0.7807461	0.23955598	-3.2591383	0.00111751	0.05777082	ErbB3	erb-b2 receptor tyrosine kinase 3
ENSMUSG0C	3365.9577	-0.5495651	0.18215061	-3.2641401	0.00109797	0.05755335	Acs1l	acyl-CoA synthetase long-chain family member 1
ENSMUSG0C	16778.9627	-0.4488384	0.0923581	-4.8597616	1.18E-06	0.00025449	Calm3	calmodulin 3
ENSMUSG0C	4313.31557	-1.038206	0.21289603	-8.8765868	1.08E-06	0.00023595	Krt10	keratin 10
ENSMUSG0C	25137.1716	-0.3680064	0.07793313	-4.7220792	2.33E-06	0.00048273	Cd164	CD164 antigen
ENSMUSG0C	9172.74775	-0.5468961	0.13865107	-3.9444058	8.00E-05	0.00882787	Nudt4	nudix (nucleoside diphosphate linked moiety X)-type motif 4
ENSMUSG0C	7295.95689	-0.6090242	0.17377646	-3.5046418	0.00045722	0.03068601	Acs1l	achaete-scute family bHLH transcription factor 1
ENSMUSG0C	2822.46243	-0.51756	0.16191647	-3.1964632	0.00139124	0.06707247	Pel1	pellino 1
ENSMUSG0C	2334.78129	-1.4659245	0.24793871	-5.912447	3.37E-09	1.27E-06	Pik3cg	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma
ENSMUSG0C	10563.2281	-0.3746146	0.0966298	-3.8768015	0.00010584	0.01065489	Acox1	acyl-Coenzyme A oxidase 1, palmitoyl
ENSMUSG0C	14581.5063	-1.0332865	0.09645078	-10.713096	8.84E-27	1.01E-22	Atp2a3	ATPase, Ca++ transporting, ubiquitous
ENSMUSG0C	7542.52743	-0.6814565	0.11351336	-6.0033155	1.93E-09	8.07E-07	Sec14l1	SEC14-like lipid binding 1
ENSMUSG0C	5011.70619	-1.1360473	0.1297541	-8.7553866	2.03E-18	5.84E-15	Pik3r5	phosphoinositide-3-kinase regulatory subunit 5
ENSMUSG0C	13170.4073	-0.3959455	0.09723313	-4.0721254	4.66E-05	0.00559838	Acly	ATP citrate lyase
ENSMUSG0C	4873.41812	-0.4407997	0.14076979	-3.133517	0.00174004	0.07710242	Pygl	liver glycogen phosphorylase
ENSMUSG0C	3870.81047	-1.1084881	0.178585	-6.207062	5.40E-10	3.26E-07	Clmn	calmin
ENSMUSG0C	23.6414867	-8.1644188	2.57105357	-3.1755149	0.00149571	0.07006326	Slc10a1	solute carrier family 10 (sodium/bile acid cotransporter family), member 1
ENSMUSG0C	5103.10157	-0.9472691	0.17373311	-5.4524389	4.97E-08	1.58E-05	Mctp1	multiple C2 domains, transmembrane 1
ENSMUSG0C	3273.2596	-0.5992035	0.1754876	-3.4145063	0.00063898	0.03839383	Txndc16	thioredoxin domain containing 16
ENSMUSG0C	3410.47833	-1.0697552	0.15954943	-6.7048513	2.02E-11	1.60E-08	Fyb	FYN binding protein
ENSMUSG0C	23.1177063	-8.1336689	2.26461065	-3.5916412	0.0003286	0.02433033	C9	complement component 9
ENSMUSG0C	944.606761	-1.197449	0.3146336	-3.8059346	0.00014127	0.012766	Slc7a8	solute carrier family 7 (cationic amino acid transporter, y+ system), member 8
ENSMUSG0C	1738.56793	-1.2920922	0.30236792	-4.2732449	1.93E-05	0.00279865	DnaH5	dynein, axonemal, heavy chain 5
ENSMUSG0C	7155.9501	-0.5969019	0.16663453	-3.5821023	0.00034084	0.0250747	Enpp2	ectonucleotide pyrophosphatase/phosphodiesterase 2
ENSMUSG0C	33.7160918	-8.6770783	2.01571029	-4.3047249	1.67E-05	0.00250043	Ribc2	RIB43A domain with coiled-coils 2
ENSMUSG0C	3883.9238	-0.4814488	0.14075201	-3.4205466	0.00062495	0.03798041	Vdr	vitamin D (1,25-dihydroxyvitamin D3) receptor
ENSMUSG0C	328.676531	-2.1859082	0.57661723	-3.7909172	0.00015009	0.01345727	Spag6l	sperm associated antigen 6-like
ENSMUSG0C	3149.60568	-0.8073511	0.21019154	-3.8410258	0.00012252	0.01179003	Muc13	mucin 13, epithelial transmembrane
ENSMUSG0C	2485.90429	-0.9526648	0.18672702	-5.1019119	3.36E-07	8.48E-05	Adcy5	adenylate cyclase 5
ENSMUSG0C	23977.187	-0.7395761	0.10772335	-6.8655136	6.63E-12	6.58E-09	Ivns1abp	influenza virus NS1A binding protein
ENSMUSG0C	3661.36852	-1.0567313	0.1571566	-6.7240655	1.77E-11	1.45E-08	Gnb3	guanine nucleotide binding protein (G protein), beta 3
ENSMUSG0C	7822.80523	-0.3783797	0.10883462	-3.4766481	0.00050772	0.03339193	Igf2r	insulin-like growth factor 2 receptor
ENSMUSG0C	6144.72232	-0.4682571	0.13985765	-3.3480977	0.00081368	0.04598981	Abca3	ATP-binding cassette, sub-family A (ABC1), member 3
ENSMUSG0C	14280.2828	-1.2241245	0.13307071	-9.1990529	3.61E-20	1.38E-16	Avil	avillin
ENSMUSG0C	2975.04371	-0.8643261	0.20476719	-4.2210183	2.43E-05	0.00335341	Cdhr5	cadherin-related family member 5
ENSMUSG0C	5094.73596	-0.7456097	0.16699088	-4.4649726	8.01E-06	0.00137699	Alox5	arachidonate 5-lipoxygenase
ENSMUSG0C	4926.01095	-0.4602497	0.1477077	-3.1159493	0.00183354	0.07985805	Xiap	X-linked inhibitor of apoptosis
ENSMUSG0C	3712.49995	-0.6484808	0.15695535	-4.131626	3.60E-05	0.00456785	Nrp2	neuropilin 2
ENSMUSG0C	5747.52636	-0.4475281	0.12986732	-3.4460408	0.00056886	0.03626985	Nabp1	nucleic acid binding protein 1
ENSMUSG0C	3680.46264	-1.1469571	0.20296814	-5.6509216	1.60E-08	5.31E-06	Ptpn18	protein tyrosine phosphatase, non-receptor type 18
ENSMUSG0C	2064.31338	-0.8398816	0.20632887	-4.0705965	4.69E-05	0.0056059	Vil1	villin 1
ENSMUSG0C	3436.17574	-0.8754838	0.18970819	-6.4188975	3.93E-06	0.00074605	Inpp5d	inositol polyphosphate-5-phosphatase D
ENSMUSG0C	13198.1888	-0.4823132	0.11515756	-4.1882899	2.81E-05	0.00378459	Pam	peptidylglycine alpha-amidating monooxygenase
ENSMUSG0C	2210.96301	-0.9269834	0.26140205	-3.5461979	0.00039083	0.02743358	Lypd1	Ly6/Plaur domain containing 1
ENSMUSG0C	3979.02656	-0.5114615	0.14873616	-3.4387168	0.00058448	0.03675487	Tfcp2l1	transcription factor CP2-like 1
ENSMUSG0C	434.375782	-1.2067966	0.39175064	-3.0805224	0.00206638	0.08734729	Dusp27	dual specificity phosphatase 27 (putative)
ENSMUSG0C	30081.9946	-0.5028203	0.10719341	-4.6907764	2.72E-06	0.00055284	Atp1b1	ATPase, Na+/K+ transporting, beta 1 polypeptide
ENSMUSG0C	3412.3073	-0.6339256	0.17082089	-3.7110541	0.0002064	0.01685926	Plxn2	plexin A2
ENSMUSG0C	1561.82178	-1.2759898	0.35738717	-3.5703291	0.00035653	0.02565361	Chgb	chromogranin B
ENSMUSG0C	1865.18461	-1.5412491	0.31316298	-4.9215558	8.59E-07	0.00019707	Pck1	phosphoenolpyruvate carboxykinase 1, cytosolic
ENSMUSG0C	11104.8317	-0.6567966	0.15462893	-4.2475663	2.16E-05	0.00310016	Postn	perlestin, osteoblast specific factor
ENSMUSG0C	6126.6818	-1.0412576	0.14699192	-7.0837745	1.40E-12	1.61E-09	Dclk1	doublecortin-like kinase 1
ENSMUSG0C	716.095696	-0.9816232	0.32105788	-3.0574648	0.00223218	0.09132832	Chrm2	cholinergic receptor, nicotinic, beta polypeptide 2 (neuronal)
ENSMUSG0C	150.58501	-2.0933629	0.68130773	-3.0725658	0.00212227	0.08889137	Fga	fibrogen alpha chain
ENSMUSG0C	2978.47347	-0.7330827	0.21947992	-3.34009	0.00083751	0.04645296	Rragd	Ras-related GTP binding D
ENSMUSG0C	5641.8903	-1.2094721	0.19738917	-6.1273477	8.94E-10	4.83E-07	Col15a1	collagen, type XV, alpha 1
ENSMUSG0C	6748.17083	-0.7366064	0.17439615	-4.2237537	2.40E-05	0.00334233	Slc5a9	solute carrier family 5 (sodium/glucose cotransporter), member 9
ENSMUSG0C	2877.92782	-0.9607469	0.2367528	-4.0580169	4.95E-05	0.00586594	Tspan1	tetraspanin 1
ENSMUSG0C	2630.32247	-0.9036973	0.18892063	-4.7834762	1.72E-06	0.0003628	Gnat3	guanine nucleotide binding protein, alpha transducing 3
ENSMUSG0C	1119.55873	-0.889133	0.24935992	-3.5656612	0.00036294	0.02603301	Adgrb2	adhesion G protein-coupled receptor B2
ENSMUSG0C	3395.26643	-0.5020878	0.15037911	-3.3388137	0.00084137	0.04653485	Inpp5b	inositol polyphosphate-5-phosphatase B
ENSMUSG0C	3540.4327	-0.6064982	0.1834192	-3.3066234	0.00094428	0.05075878	Espn	espin
ENSMUSG0C	2501.98291	-0.7484979	0.19045153	-3.9301229	8.49E-05	0.00910638	Fam126a	family with sequence similarity 126, member A
ENSMUSG0C	4954.8338	-0.6869089	0.15392735	-4.4625529	8.10E-06	0.00137699	Sel1l3	sel-1 suppressor of lin-12-like 3 (C. elegans)
ENSMUSG0C	37.9454034	-8.8469528	2.27090521	-3.8957825	9.79E-05	0.01012022	Klb	klotho beta
ENSMUSG0C	7343.79361	-0.6860227	0.20454812	-3.3538451	0.00079697	0.04527932	Sparcl1	SPARC-like 1
ENSMUSG0C	2501.27408	-0.6061201	0.1943834	-3.1181681	0.00181979	0.07956121	Bmp3	bone morphogenetic protein 3
ENSMUSG0C	19756.4926	-0.3636957	0.0807044	-4.1782977	2.94E-05	0.00389669	Atp2a2	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2
ENSMUSG0C	31.0080387	-8.5553218	2.20418333	-3.8814021	0.00010386	0.01050135	Gngt1	guanine nucleotide binding protein (G protein), gamma transducing activity polypeptide 1
ENSMUSG0C	23525.7647	-0.6909217	0.08489499	-8.1385445	4.00E-16	9.18E-13	Ahcy2	S-adenosylhomocysteine hydrolase-like 2
ENSMUSG0C	7750.03093	-0.4761828	0.1308885	-3.6381771	0.00027457	0.0211487	Aoc1	amine oxidase, copper-containing 1
ENSMUSG0C	1908.91044	-1.2000635	0.2260673	-3.3084347	1.11E-07	3.20E-05	Hpgds	

ENSMUSG0C	2812.00821	-0.6471891	0.16562468	-3.9075642	9.32E-05	0.00977643	Psd3	pleckstrin and Sec7 domain containing 3
ENSMUSG0C	1950.2786	-0.8213354	0.24477787	-3.3554314	0.00079241	0.04524442	Apba2	amyloid beta (A4) precursor protein-binding, family A, member 2
ENSMUSG0C	5559.67997	-0.4513748	0.13664383	-3.3032944	0.00095556	0.05124526	Furin	furin (paired basic amino acid cleaving enzyme)
ENSMUSG0C	24912.2424	-0.4822766	0.10017822	-4.8141858	1.48E-06	0.00031705	Iqgap1	IQ motif containing GTPase activating protein 1
ENSMUSG0C	36.5421725	-7.7827289	2.17745205	-3.5742366	0.00035125	0.0255945	Plin1	perilipin 1
ENSMUSG0C	4715.4181	-0.858363	0.17158529	-5.0025442	5.66E-07	0.00013388	Ctsc	cathepsin C
ENSMUSG0C	2910.38895	-0.9295574	0.17523314	-5.3046896	1.13E-07	3.20E-05	Xylt1	xylosyltransferase 1
ENSMUSG0C	14610.1102	-0.2759457	0.08804988	-3.1339698	0.00172459	0.07671401	Mvp	major vault protein
ENSMUSG0C	883.051472	-1.2169971	0.36280183	-3.3544403	0.00079526	0.04527932	Klk7	kallikrein related-peptidase 7 (chymotryptic, stratum corneum)
ENSMUSG0C	12565.9399	-0.3316647	0.09127626	-3.6336359	0.00027946	0.02131008	Il4ra	interleukin 4 receptor, alpha
ENSMUSG0C	212.678834	-1.9361829	0.63608745	-3.0438942	0.00233537	0.09354939	Tead2	TEA domain family member 2
ENSMUSG0C	20021.3945	-0.3973811	0.09267101	-4.288084	1.80E-05	0.00263478	Nucb1	nucleobindin 1
ENSMUSG0C	414.154565	-2.3003401	0.57477932	-4.0021275	6.28E-05	0.00709796	Vwa3a	von Willebrand factor A domain containing 3A
ENSMUSG0C	3763.84688	-0.5586274	0.14372899	-3.8866714	0.00010163	0.01032155	Trim30a	tripartite motif-containing 30A
ENSMUSG0C	8264.49087	-1.1994945	0.1712632	-7.0038074	2.49E-12	2.72E-09	Gp2	glycoprotein 2 (zymogen granule membrane)
ENSMUSG0C	5298.18191	-0.519382	0.1565459	-3.3177619	0.00090742	0.04923869	Swap70	SWA-70 protein
ENSMUSG0C	464.625804	-1.6966434	0.53111918	-3.1944684	0.00140089	0.06712849	Trim66	tripartite motif-containing 66
ENSMUSG0C	4246.57634	-0.4821197	0.14651743	-3.2905282	0.00099999	0.05337879	Efnb1	ephrin B1
ENSMUSG0C	8917.24459	-0.3376306	0.1092927	-3.0892323	0.00200674	0.08567975	Sh3bgrl	SH3-binding domain glutamic acid-rich protein like
ENSMUSG0C	601.82955	-2.1580242	0.35354814	-6.1039048	1.04E-09	5.05E-07	Srp2	sushi-repeat-containing protein, X-linked 2
ENSMUSG0C	437.819671	-1.5229976	0.46673836	-3.2630649	0.00110214	0.05755335	Chrdl1	chordin-like 1
ENSMUSG0C	16320.3406	-0.3528137	0.08948019	-3.9429257	8.05E-05	0.00884005	Rbbp7	retinoblastoma binding protein 7, chromatin remodeling factor
ENSMUSG0C	3710.37325	-1.2273922	0.17832307	-6.882969	5.86E-12	6.12E-09	Bmx	BMX non-receptor tyrosine kinase
ENSMUSG0C	2547.57264	-0.7145724	0.18643438	-3.832836	0.00012667	0.01196526	L1cam	L1 cell adhesion molecule
ENSMUSG0C	4536.52734	-0.4704396	0.15217198	-3.0914998	0.00199148	0.08544013	Mcf2l	mcf.2 transforming sequence-like
ENSMUSG0C	659.973827	-1.9101364	0.61203501	-3.1209593	0.00180263	0.07931883	Car7	carbonic anhydrase 7
ENSMUSG0C	1271.15695	-1.6646533	0.24514119	-6.7905902	1.12E-11	9.86E-09	Agt	angiotensinogen (serpin peptidase inhibitor, clade A, member 8)
ENSMUSG0C	2662.16697	-0.755459	0.16577565	-4.5571165	5.19E-06	0.00095229	Pou2f3	POU domain, class 2, transcription factor 3
ENSMUSG0C	5633.95598	-0.6221484	0.18391956	-3.3827203	0.00071772	0.04191796	Apoa4	apolipoprotein A-IV
ENSMUSG0C	1202.63329	-0.8810083	0.28014557	-3.1448233	0.00166187	0.07421195	Cln6	ceroid-lipofuscinosis, neuronal 6
ENSMUSG0C	10365.6124	-0.5008633	0.14992534	-3.3407514	0.00083552	0.04645296	Ptgs2	prostaglandin-endoperoxide synthase 2
ENSMUSG0C	10428.7376	-0.4766128	0.10499769	-4.5392699	5.64E-06	0.00102022	Kdm4a	lysine (K)-specific demethylase 4A
ENSMUSG0C	785.639446	-1.1645933	0.32474375	-3.5861915	0.00033554	0.02476434	Adra2a	adrenergic receptor, alpha 2a
ENSMUSG0C	1590.06264	-1.0041592	0.2638087	-3.8063916	0.00014101	0.012766	Ano7	anoctamin 7
ENSMUSG0C	4392.58737	-1.2066935	0.14984441	-8.0529767	8.08E-16	1.69E-12	Vav1	vav 1 oncogene
ENSMUSG0C	2383.80055	-0.6566275	0.17970904	-3.6538365	0.00025835	0.02010144	Faah	fatty acid amide hydrolase
ENSMUSG0C	4049.96189	-0.6381277	0.16598106	-3.8445813	0.00012076	0.01179003	Plcg2	phospholipase C, gamma 2
ENSMUSG0C	4532.89384	-0.8385038	0.14009061	-5.9854388	2.16E-09	8.85E-07	Myo15b	myosin XVb
ENSMUSG0C	1504.7115	-0.97719	0.24502024	-3.9882012	6.66E-05	0.0074908	Inpp5j	inositol polyphosphate 5-phosphatase J
ENSMUSG0C	43.2052656	-0.9348812	1.84063582	-4.9085654	9.17E-07	0.0002085	B3gal1	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 1
ENSMUSG0C	1768.55713	-1.3270205	0.21214614	-6.2552186	3.97E-10	2.68E-07	Cdhr2	cadherin-related family member 2
ENSMUSG0C	2165.15353	-0.6736613	0.1881908	-3.5796718	0.00034403	0.02522821	Egl3	egl-9 family hypoxia-inducible factor 3
ENSMUSG0C	30.8491896	-8.5481412	2.44214643	-3.5002575	0.00046481	0.03101384	Plk5	polo like kinase 5
ENSMUSG0C	1843.16581	-0.7356678	0.24302659	-3.0271084	0.00246905	0.09771068	Pcdh17	protocadherin 17
ENSMUSG0C	8021.87344	-0.5552454	0.15118714	-3.6725707	0.00024012	0.01907106	Syt1	synaptotagmin 1
ENSMUSG0C	1166.69933	-0.9456277	0.29967385	-3.1555229	0.00160211	0.07267423	1810046K07	RIKEN cDNA 1810046K07 gene
ENSMUSG0C	1607.34586	-1.0595479	0.27467015	-3.8575284	0.00011454	0.01138105	Lum	lumican
ENSMUSG0C	468.845149	-1.6584821	0.41341293	-3.0116842	6.03E-05	0.00685035	Mag	myelin-associated glycoprotein
ENSMUSG0C	15.0926872	-20.934337	3.36844983	-6.2148283	5.14E-10	3.19E-07	Stpg3	sperm tail PG rich repeat containing 3
ENSMUSG0C	3184.90209	-0.6377875	0.20224105	-3.1536006	0.0016127	0.07301031	Lypd8l	LY6/PLAUR domain containing 8 like
ENSMUSG0C	16146.9671	-0.3347865	0.10741902	-3.116641	0.00182924	0.07982241	Clic4	chloride intracellular channel 4 (mitochondrial)
ENSMUSG0C	597.032817	-1.989996	0.36503788	-3.2845814	0.00102134	0.05428835	Rims2	regulating synaptic membrane exocytosis 2
ENSMUSG0C	6937.21472	-1.379159	0.18388669	-7.5000561	6.38E-14	9.15E-11	Cdkn1c	cyclin-dependent kinase inhibitor 1C (P57)
ENSMUSG0C	1218.34745	-1.3862087	0.40356696	-3.4348915	0.00059279	0.03712007	Muc5ac	mucin 5, subtypes A and C, tracheobronchial/gastric
ENSMUSG0C	5841.97158	-0.4890175	0.14115839	-3.4643178	0.00053158	0.03457869	Atp6b0a2	ATPase, H ⁺ transporting, lysosomal V0 subunit A2
ENSMUSG0C	817.344901	-1.3001023	0.29157348	-4.4589181	8.24E-06	0.00139025	AW551984	expressed sequence AW551984
ENSMUSG0C	1457.99545	-0.7204729	0.23551046	-3.059197	0.00221931	0.09129006	Spon1	spondin 1, (f-spondin) extracellular matrix protein
ENSMUSG0C	8593.9695	-0.3788152	0.1243106	-3.0473285	0.00230885	0.09297382	Trp53inp2	transformation related protein 53 inducible nuclear protein 2
ENSMUSG0C	5452.61962	-0.4540549	0.15009067	-3.0252042	0.00248465	0.09774125	Atf5	activating transcription factor 5
ENSMUSG0C	6753.33228	-0.6015471	0.12999206	-4.6275677	3.70E-06	0.00071364	Ascc3	activating signal cointegrator 1 complex subunit 3
ENSMUSG0C	965.615225	-0.9531594	0.28031127	-3.4003606	0.00067297	0.03990504	Klk1b16	kallikrein 1-related peptidase b16
ENSMUSG0C	3435.40872	-1.2160071	0.16069738	-7.5670623	3.82E-14	6.26E-11	Adrgg6	adhesion G protein-coupled receptor G6
ENSMUSG0C	14675.6133	-0.6615388	0.11097847	-5.9609656	2.51E-09	9.92E-07	Ahdh2	aldehyde dehydrogenase 2
ENSMUSG0C	427.901875	-1.3478624	0.41343791	-3.2601325	0.0011136	0.05777082	Gimap3	GTPase, IMAP family member 3
ENSMUSG0C	5867.77387	-0.4482445	0.14366156	-3.0853382	0.00203321	0.08658298	Megf9	multiple EGF-like domains 9
ENSMUSG0C	361.80218	-1.9253355	0.49358663	-3.9007043	9.59E-05	0.00996153	Ccdc81	coiled-coil domain containing 81
ENSMUSG0C	4615.18589	-0.643967	0.16824338	-3.827592	0.0001294	0.01207393	Strip2	striatin interacting protein 2
ENSMUSG0C	10568.5417	-0.3425736	0.09726244	-3.5221567	0.00042805	0.02915506	Hnrnpu	heterogeneous nuclear ribonucleoprotein U
ENSMUSG0C	678.107722	-1.5201484	0.47025047	-3.2326357	0.00122654	0.06207366	Ccdc40	coiled-coil domain containing 40
ENSMUSG0C	5178.94448	-0.9175031	0.15730105	-5.8327848	5.45E-09	1.99E-06	Plcb2	phospholipase C, beta 2
ENSMUSG0C	1622.12974	-0.9028704	0.29522672	-3.0582274	0.00222651	0.09132832	Cacna2d1	calcium channel, voltage-dependent, alpha2/delta subunit 1
ENSMUSG0C	266.771631	-1.9862863	0.56000505	-3.5469079	0.00038978	0.02743358	Hmx3	H6 homeobox 3
ENSMUSG0C	13998.4179	-0.5310548	0.10636746	-4.9926433	5.96E-07	0.00013949	Ltbpa4	latent transforming growth factor beta binding protein 4
ENSMUSG0C	943.99358	-0.9458597	0.29238315	-3.2350008	0.00121642	0.06190816	Cyp2s1	cytochrome P450, family 2, subfamily s, polypeptide 1
ENSMUSG0C	1450.27585	-1.4165071	0.24426498	-5.7990593	6.67E-09	2.32E-06	Entpd3	ectonucleoside triphosphate diphosphohydrolase 3
ENSMUSG0C	505.692151	-1.4548267	0.39449506	-3.6878197	0.00022618	0.01808919	Coro2b	coronin, actin binding protein, 2B
ENSMUSG0C	880.001408	-1.4936185	0.35213412	-4.2416182	2.22E-05	0.00314419	Tmem45b	transmembrane protein 45b
ENSMUSG0C	11218.7485	-0.7570789	0.17078567	-4.4329182	9.30E-06	0.00154627	Rptn	repetin
ENSMUSG0C	2554.62501	-0.5700184	0.18875036	-3.0199595	0.00252808	0.09851805	Rassf4	Ras association (RalGDS/AF-6) domain family member 4
ENSMUSG0C	2650.91739	-0.776485	0.20239336	-3.8365141	0.00012479	0.01193489	Ospbp6	oxysterol binding protein-like 6
ENSMUSG0C	36.6370743	-8.796745	1.88327784	-4.6709757	3.00E-06	0.00059316	Dnaaf6b	dynein axonemal assembly factor 6B
ENSMUSG0C	477.475383	-1.575718	0.51765007	-3.043983	0.00233468	0.09354939	Dnal1	dynein, axonemal, light intermediate polypeptide 1
ENSMUSG0C	825.389841	-1.0163728	0.30011576	-3.3866026	0.00070764	0.04143473	Fgf11	fibroblast growth factor 11
ENSMUSG0C	2073.0661	-1.2344749	0.22899675	-5.3907966	7.01E-08	2.15E-05	Hepacam2	HEPACAM family member 2
ENSMUSG0C	1690.90318	-0.7147163	0.23092637	-3.0949966	0.00196815	0.08459736	Krt84	keratin 84
ENSMUSG0C	2343.6798	-0.6745825	0.20156206	-3.3467731	0.00081758	0.04599495	Fads6	fatty acid desaturase domain family, member 6
ENSMUSG0C	14.2656906	-20.854088	3.42935205	-6.0810578	1.19E-09	5.40E-07	Krtap5-4	keratin associated protein 5-4
ENSMUSG0C	4311.42431	-1.0890845	0.18333359	-5.9404527	2.84E-09	1.09E-06	Fndc7	fibronectin type III domain containing 7
ENSMUSG0C	1336.91695	-1.0568949	0.23834493	-4.4343082	9.24E-06	0.00154627	Slitrk6	SLIT and NTRK-like family, member 6
ENSMUSG0C	368.869408	-2.5028558	0.59538473	-4.2037621	2.63E-05	0.00358661	Kcnrg	potassium channel regulator
ENSMUSG0C	6264.6907	-0.6774903	0.12991507	-5.2148711	1.84E-07	4.91E-05	Gjb2	gap junction protein, beta 2
ENSMUSG0C	1199.23029	-0.8835865	0.25466142	-3.4696519	0.00052113	0.03409253	Camk2n1	calcium/calmodulin-dependent protein kinase II inhibitor 1
ENSMUSG0C	2656.79323	-1.9209904	0.20822195	-9.2256861	2.82E-20	1.29E-16	Sh2d7	SH2 domain containing 7
ENSMUSG0C	1145.78306	-1.1377119	0.358058	-3.7343644	0.00018819	0.01586517	Cfap65	cilia and flagella associated protein 65
ENSMUSG0C	2448.05801	-1.2814317	0.23586701	-5.4328568	5.55E-08	1.74E-05	Ptgs1	prostaglandin-endoperoxide synthase 1
ENSMUSG0C	863.84219	-1.2353546	0.38328566	-3.2230649	0.00126827	0.06342169	Dmbt1	deleted in malignant brain tumors 1
ENSMUSG0C	268551.43	-0.6440433	0.08255223	-7.801647	6.11E-15	1.17E-11	Fcgbp	Fc fragment of IgG binding protein
ENSMUSG0C	449.937393	-1.3398617	0.42805011	-3.1301516	0.00174716	0.07726896	Qd300f	CD300 molecule like family member F
ENSMUSG0C	2318.53869	-0.5877635	0.19428877	-3.0252058	0.0024846			

ENSMUSGOC	55.3283424	-5.8381436	1.54235483	-3.7852143	0.00015358	0.01371608	Doc2a	double C2, alpha
ENSMUSGOC	1489.31977	-0.698169	0.22736977	-3.0706323	0.00213606	0.0891473	Cemip	cell migration inducing protein, hyaluronan binding
ENSMUSGOC	4454.3063	-0.7019703	0.18417535	-3.8114238	0.00013817	0.012635	Tchh	trichohyalin
ENSMUSGOC	2147.06359	-0.7777763	0.22011943	-3.5334286	0.00041021	0.02841029	Robo2	roundabout guidance receptor 2
ENSMUSGOC	4885.2727	-1.6760625	0.16683902	-10.045986	9.57E-24	5.49E-20	Sh2b6	SH2 domain containing 6
ENSMUSGOC	5769.6783	-0.5427151	0.13025466	-4.1665699	3.09E-05	0.00405569	Sae1	SUMO1 activating enzyme subunit 1
ENSMUSGOC	986.573101	-1.4898959	0.43446958	-3.4294366	0.00060484	0.03758911	Dnah6	dynein, axonemal, heavy chain 6
ENSMUSGOC	1135.6124	-0.827174	0.24194083	-3.4189102	0.00062872	0.03798041	Glis3	GLIS family zinc finger 3
ENSMUSGOC	29.0376582	-7.5233374	2.34949815	-3.202104	0.00136428	0.06645301	Dspp	dentin sialophosphoprotein
ENSMUSGOC	941.142464	-2.3283262	0.38293375	-6.0802324	1.20E-09	5.40E-07	Nrgn	neurogranin
ENSMUSGOC	1500.85067	-0.9305676	0.21951348	-4.2392275	2.24E-05	0.00315837	Klk1b26	kallikrein 1-related peptidase b26
ENSMUSGOC	2604.89666	-0.9378009	0.23119042	-4.0564002	4.98E-05	0.00586594	Mill1	MHC I like leukocyte 1
ENSMUSGOC	3783.97637	-0.8578751	0.15257636	-5.6225951	1.88E-08	6.08E-06	Spock3	sparc/osteonectin, cwcv and kazal-like domains proteoglycan 3
ENSMUSGOC	1986.72823	-1.0440717	0.24173757	-4.3190295	1.57E-05	0.00239348	Dedd2	death effector domain-containing DNA binding protein 2
ENSMUSGOC	222.007294	-2.5019967	0.5885777	-4.2509199	2.13E-05	0.00307331	Sec14l3	SEC14-like lipid binding 3
ENSMUSGOC	382.383601	-1.531932	0.47918132	-3.1969776	0.00138876	0.06707247	Smyd1	SET and MYND domain containing 1
ENSMUSGOC	27.4223819	-8.3783585	2.48178783	-3.3759367	0.00073565	0.0427477	Them7	thioesterase superfamily member 7
ENSMUSGOC	21.8667718	-8.0516349	2.63186874	-3.0592844	0.00221866	0.09129006	Apobec4	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 4 (putative)
ENSMUSGOC	1739.97706	-1.2747559	0.21902503	-5.8201379	5.88E-09	2.08E-06	Fut2	fucosyltransferase 2
ENSMUSGOC	1485.23192	-0.8233052	0.23398892	-3.5185651	0.00043389	0.02946455	B4galt6	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 6
ENSMUSGOC	5650.76309	-0.5056463	0.13721329	-3.6851114	0.0002286	0.01821915	Cebpg	CCAAT/enhancer binding protein (C/EBP), gamma
ENSMUSGOC	2494.58526	-0.6350878	0.19973478	-3.1796555	0.0014745	0.06921115	Mylh4	myosin, heavy polypeptide 4, skeletal muscle
ENSMUSGOC	7683.90579	-0.4562365	0.13344605	-3.4188831	0.00062879	0.03798041	Ero1b	endoplasmic reticulum oxidoreductase 1 beta
ENSMUSGOC	4341.01368	-0.4722353	0.15504342	-3.045826	0.00232042	0.09327605	Trim12c	tripartite motif-containing 12C
ENSMUSGOC	3545.72663	-0.4928727	0.16127591	-3.0560836	0.00224249	0.09158686	Sphk2	sphingosine kinase 2
ENSMUSGOC	713.355372	-1.3298008	0.35183273	-3.7796393	0.00015706	0.01382302	Saa2	serum amyloid A 2
ENSMUSGOC	23.8592186	-8.178005	2.56237219	-3.1915758	0.00141499	0.06752237	Zscan5b	zinc finger and SCAN domain containing 5B
ENSMUSGOC	5318.53587	-0.4239199	0.13781866	-3.0759249	0.00209851	0.08854233	Skap2	src family associated phosphoprotein 2
ENSMUSGOC	42.1734818	-8.9993325	2.23299232	-4.0301672	5.57E-05	0.00639668	Tas2r125	taste receptor, type 2, member 125
ENSMUSGOC	656.393051	-1.1824738	0.36153497	-3.2707038	0.0010728	0.05660696	Hydin	HYDIN, axonemal central pair apparatus protein
ENSMUSGOC	2400.75045	-1.360616	0.25939488	-5.0348565	4.78E-07	0.00011554	Alox5ap	arachidonic 5-lipoxygenase activating protein
ENSMUSGOC	4636.05349	-0.8358225	0.21402781	-3.9052051	9.41E-05	0.00982237	Dmkn	dermokine
ENSMUSGOC	2247.44135	-0.7271535	0.200015	-3.635495	0.00027745	0.0212275	Prpc	prolylcarboxypeptidase (angiotensinase) C
ENSMUSGOC	566.880591	-1.8469642	0.35941521	-5.1388036	2.76E-07	7.21E-05	Tmem236	transmembrane protein 236
ENSMUSGOC	37.7509846	-5.6011803	1.74400577	-3.2116754	0.00131963	0.06542022	Cfd	complement factor D (adipsin)
ENSMUSGOC	23.3519195	-8.1476083	2.56228874	-3.1798166	0.00147368	0.06921115	Cd200r4	CD200 receptor 4
ENSMUSGOC	2760.75605	-0.75638	0.18269316	-4.140166	3.47E-05	0.00443357	Nectin2	nectin cell adhesion molecule 2
ENSMUSGOC	6357.00419	-0.8320271	0.16368606	-5.0830666	3.71E-07	9.27E-05	Serpinb2	serine (or cysteine) peptidase inhibitor, clade B, member 2
ENSMUSGOC	13357.1082	-0.7250933	0.10775336	-6.7291937	1.71E-11	1.45E-08	Fabp4	fatty acid binding protein 4, adipocyte
ENSMUSGOC	113.242441	-3.7265427	1.1183869	-3.3320693	0.00086203	0.04744874	Prss1	protease, serine 1 (trypsin 1)
ENSMUSGOC	2795.35354	-1.2120762	0.23960685	-5.0586042	4.22E-07	0.00010416	Chil4	chitinase-like 4
ENSMUSGOC	2640.65961	-1.6039788	0.23610483	-6.7935026	1.09E-11	9.86E-09	Klk1	kallikrein 1
ENSMUSGOC	21.1303638	-8.0023453	2.64591228	-3.0244182	0.00249112	0.09774125	NA	NA
ENSMUSGOC	1719.15005	-0.7147772	0.21908364	-3.2625765	0.00110404	0.05755335	Ethe1	ethylmalonic encephalopathy 1
ENSMUSGOC	1316.83508	-1.2371932	0.23399615	-5.2872372	1.24E-07	3.48E-05	Gimap8	GTPase, IMAP family member 8
ENSMUSGOC	783.267082	-0.9378539	0.30062997	-3.1196289	0.00181079	0.07931883	Zfp428	zinc finger protein 428
ENSMUSGOC	244.751712	-3.25413	0.93345194	-4.861248	0.00049007	0.03232365	Cdccl46	coiled-coil domain containing 146
ENSMUSGOC	14.4724398	-20.873332	3.41360406	-6.1147491	9.67E-10	4.83E-07	NA	NA
ENSMUSGOC	18.2801807	-7.7930292	2.42349286	-3.2156188	0.00130164	0.06476828	Mir421	microRNA 421
ENSMUSGOC	4238.47298	-0.4791126	0.15603121	-3.07062	0.00213615	0.0891473	Trim12a	tripartite motif-containing 12A
ENSMUSGOC	19.965549	-7.9211288	2.31455167	-3.4223167	0.0006209	0.03798041	Serpina1a	serine (or cysteine) peptidase inhibitor, clade A, member 1A
ENSMUSGOC	5666.25058	-0.50760324	0.13340299	-4.3179871	1.57E-05	0.00239348	Akap13	A kinase (PRKA) anchor protein 13
ENSMUSGOC	1994.57208	-1.0830552	0.19222108	-5.6344246	1.76E-08	5.76E-06	Fxyd6	FXD domain-containing ion transport regulator 6
ENSMUSGOC	7240.71326	-0.9159735	0.12622558	-7.2566396	3.97E-13	5.06E-10	Rnasel	ribonuclease L (2'), 5'-oligoadenylate synthetase-dependent)
ENSMUSGOC	881.908061	-0.9032195	0.29602184	-3.0511921	0.00227935	0.09227135	Serpinb7	serine (or cysteine) peptidase inhibitor, clade B, member 7
ENSMUSGOC	2253.56234	-0.860417	0.19135598	-4.4964211	6.91E-06	0.00121085	Tspan6	tetraspanin 6
ENSMUSGOC	2337.67625	-0.7033236	0.1982112	-3.5483547	0.00038765	0.02737734	Krt77	keratin 77
ENSMUSGOC	24.3969235	-8.2102575	2.13301647	-3.8491299	0.00011854	0.01167728	4930444P10	RIKEN cDNA 4930444P10 gene
ENSMUSGOC	2409.57517	-0.7888104	0.20097463	-3.9249254	6.68E-05	0.0092191	Sptbn2	spectrin beta, non-erythrocytic 2
ENSMUSGOC	4398.75177	-0.7274628	0.19352269	-3.759057	0.00017055	0.01465387	Lyz1	lysozyme 1
ENSMUSGOC	545.434306	-1.3188378	0.38110389	-3.460573	0.00053903	0.03494997	Cntnnp5a	contactin associated protein-like 5A
ENSMUSGOC	2689.60587	-0.817568	0.25500456	-3.2060919	0.00134551	0.06606295	Pnma8b	PNMA family member 8B
ENSMUSGOC	579.368178	-1.9479946	0.48530288	-4.013977	5.97E-05	0.00681786	Gm4952	predicted gene 4952
ENSMUSGOC	5390.13332	-0.5827706	0.12792957	-4.555402	5.23E-06	0.00095247	Csf2rb	colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage)
ENSMUSGOC	3434.2984	-0.5754587	0.15278084	-3.7665633	0.00016551	0.0144447	Csf2rb2	colony stimulating factor 2 receptor, beta 2, low-affinity (granulocyte-macrophage)
ENSMUSGOC	616.891918	-1.2599657	0.40136737	-3.1391832	0.00169419	0.07550846	Gm94	predicted gene 94
ENSMUSGOC	14.885938	-20.917479	3.38316547	-6.1828128	6.30E-10	3.61E-07	Nutm2	NUT family member 2
ENSMUSGOC	73.7077308	-4.6192818	1.2627657	-3.6580672	0.00025412	0.01983985	Prn16	proline rich 16
ENSMUSGOC	1316.64509	-1.1019916	0.28821428	-3.823515	0.00013156	0.01217643	Omp	olfactory marker protein
ENSMUSGOC	5650.19286	-0.4998199	0.12702576	-3.9347914	8.33E-05	0.0090323	Rbm15b	RNA binding motif protein 15B
ENSMUSGOC	4327.26825	-0.9367714	0.22887211	-4.0929906	4.26E-05	0.00523423	Saa1	serum amyloid A 1
ENSMUSGOC	720.395537	-1.6308731	0.44474386	-3.6668591	0.00024555	0.01936792	Malr1d	MAM and LDL receptor class A domain containing 1
ENSMUSGOC	643.563499	-12.931599	3.90683554	-3.3099932	0.00093298	0.05026936	Igkv4-91	immunoglobulin kappa chain variable 4-91
ENSMUSGOC	556.601782	-12.72164	3.90684746	-3.256376	0.00112844	0.05819156	Igkv8-27	immunoglobulin kappa chain variable 8-27
ENSMUSGOC	25.4042109	-6.7077156	2.01153409	-3.3346268	0.00085414	0.04712755	NA	NA
ENSMUSGOC	27.5148509	-8.3833351	2.44988339	-3.4219323	0.00062178	0.03798041	Snord89	small nucleolar RNA, C/D box 89
ENSMUSGOC	9962.35606	-0.4104727	0.10964828	-3.7435402	0.00018145	0.01536797	Ctdsp2	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 2
ENSMUSGOC	994.327484	-0.9328145	0.30758141	-3.0327401	0.00242344	0.09632184	Smin24	small integral membrane protein 24
ENSMUSGOC	16.5846306	-7.6531549	2.45937269	-3.1118321	0.0018593	0.00867403	Nkain1	Na+/K+ transporting ATPase interacting 1
ENSMUSGOC	2493.39776	-0.6597421	0.21710359	-3.0388357	0.00237494	0.0948036	Serpina3j	serine (or cysteine) peptidase inhibitor, clade A (alpha-1 antipeptidase, antitrypsin), member 3J
ENSMUSGOC	316.001518	-1.7341761	0.47931751	-3.6180111	0.00029688	0.02239124	Nhs12	NHS-like 2
ENSMUSGOC	23.8482359	-8.1769786	2.56495927	-3.1879565	0.00143282	0.06801149	NA	NA
ENSMUSGOC	17.5448492	-7.7347978	2.3997563	-3.2231597	0.00126785	0.06342169	NA	NA
ENSMUSGOC	14.4724398	-20.873332	3.41360406	-6.1147491	9.67E-10	4.83E-07	NA	NA
ENSMUSGOC	19.5012492	-7.8865448	2.34124189	-3.3685305	0.0007557	0.04347265	NA	NA
ENSMUSGOC	18.9842093	-7.8490505	2.34659852	-3.344863	0.00082323	0.04616976	Kintp6	selection and upkeep of intraepithelial T cells 6
ENSMUSGOC	21.7572936	-8.0454278	2.63882932	-3.0488625	0.0022971	0.09282613	Gm16537	predicted gene 16537
ENSMUSGOC	178.417263	-5.0449358	0.98633591	-5.1148253	3.14E-07	8.10E-05	Abhd12b	abhydrolase domain containing 12B
ENSMUSGOC	14.4724398	-20.873332	3.41360406	-6.1147491	9.67E-10	4.83E-07	S100a712	S100 calcium binding protein A7 like 2
ENSMUSGOC	25.0585975	-8.2483065	2.52145755	-3.2712454	0.00107075	0.05660696	NA	NA
ENSMUSGOC	6657.55752	-0.4095012	0.13020981	-3.1449333	0.00166125	0.07421195	Itprip12	inositol 1,4,5-triphosphate receptor interacting protein-like 2
ENSMUSGOC	41.8308425	-8.05087	2.14218023	-3.7582599	0.0001711	0.01465387	NA	NA
ENSMUSGOC	391.544727	-1.5924186	0.46453522	-3.4279825	0.00068088	0.03762094	Kcnj11	potassium inwardly rectifying channel, subfamily J, member 11
ENSMUSGOC	17.6025885	-7.7396696	2.43917511	-3.1730685	0.000150837	0.07050785	Prickle4	prickle planar cell polarity protein 4
ENSMUSGOC	13117.1034	-0.6678028	0.12773369	-5.2280867	1.71E-07	4.62E-05	Kctd12	potassium channel tetramerisation domain containing 12
ENSMUSGOC	122.537666	-2.5561535	0.7912203	-3.230647	0.0012351	0.0621696	NA	NA
ENSMUSGOC	831.955475	-1.308688	0.40105785	-3.2630905	0.00112024	0.05755335	6030407003	RIKEN cDNA 6030407003 gene
ENSMUSGOC	26.2941473	-7.3767032	2.09184049	-3.5264176	0.00042122	0.02886063	Gm5049	glutamic pyruvic transaminase, soluble pseudogene
ENSMUSGOC	22.7376639	-8.1089808	2.18422466	-3.7125214	0.0002052	0.01685926	NA	NA
ENSMUSGOC	23.106431	-8.1312629	2.58232649	-3.1488129				

ENSMUSGOC	14.0589415	-20.83672	3.4454703	-6.0475691	1.47E-09	6.25E-07	NA	NA
ENSMUSGOC	14.885938	-20.917479	3.38316547	-6.1828128	6.30E-10	3.61E-07	NA	NA
ENSMUSGOC	32.3533807	-8.6166667	2.05992194	-4.1830064	2.88E-05	0.00383901	NA	NA
ENSMUSGOC	14.6791889	-20.894937	3.39821281	-6.1488017	7.81E-10	4.37E-07	NA	NA
ENSMUSGOC	22.9008569	-8.1188104	2.21582388	-3.6640143	0.00024829	0.01951735	NA	NA
ENSMUSGOC	14.2656906	-20.854088	3.42935205	-6.0810578	1.19E-09	5.40E-07	Gm5655	ubiquitin specific peptidase 1 pseudogene
ENSMUSGOC	17.0976108	-7.6975897	2.41324588	-3.1897246	0.00142408	0.06781538	A930002C04	RIKEN cDNA A930002C04 gene
ENSMUSGOC	29.4590466	-8.4816677	2.0999557	-4.0389746	5.37E-05	0.00625503	NA	NA
ENSMUSGOC	14.0589415	-20.83672	3.4454703	-6.0475691	1.47E-09	6.25E-07	Gm5209	predicted gene 5209
ENSMUSGOC	27.8961988	-8.4043993	2.42606634	-3.4642084	0.00053179	0.03457869	Gm35019	predicted gene, 35019
ENSMUSGOC	14.4724398	-20.873332	3.41360406	-6.1147491	9.67E-10	4.83E-07	NA	NA
ENSMUSGOC	25.9069877	-8.2964664	2.49092633	-3.3306751	0.00086636	0.04757292	NA	NA

Table 2. Upregulated in cKO cTEC

row	baseMean	log2FoldChar	lfcSE	stat	pvalue	padj	symbol	geneName
ENSMUSG00	16763.9215	0.47996712	0.12606474	3.80730653	0.00014049	0.012766	Rpl13	ribosomal protein L13
ENSMUSG00	10708.127	0.57934247	0.15126643	3.82994739	0.00012817	0.01205697	S100a6	S100 calcium binding protein A6 (calcyclin)
ENSMUSG00	2342.94167	0.61831072	0.20163353	3.06650738	0.00216575	0.08989252	Mfsd10	major facilitator superfamily domain containing 10
ENSMUSG00	4616.65878	5.15150395	0.48919833	10.350502	6.25E-26	4.78E-22	Slc13a2	solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2
ENSMUSG00	6219.41497	0.43743756	0.12790369	3.42005415	0.00062609	0.03798041	Mcm3ap	minichromosome maintenance complex component 3 associated protein
ENSMUSG00	429.831063	1.25423997	0.39534793	3.17249661	0.00151134	0.07050785	Rnd2	Rho family GTPase 2
ENSMUSG00	4603.48337	0.54426267	0.13055028	4.16898893	3.06E-05	0.00403595	Ergic1	endoplasmic reticulum-golgi intermediate compartment (ERGIC) 1
ENSMUSG00	2478.39246	0.89133276	0.20305445	4.38962432	1.14E-05	0.00183538	Gstt1	glutathione S-transferase, theta 1
ENSMUSG00	8166.34642	0.48972388	0.1514626	3.23329904	0.00122369	0.06207366	Foxn1	forkhead box N1
ENSMUSG00	6456.25127	0.5771446	0.15403374	3.74687122	0.00017905	0.01522158	Ndufa11	NADH:ubiquinone oxidoreductase subunit A11
ENSMUSG00	481.917976	1.45310157	0.40198706	3.61479693	0.00030058	0.02254668	Gpx6	glutathione peroxidase 6
ENSMUSG00	7711.36143	0.3651991	0.1119511	3.26213041	0.00110578	0.05755335	Grap	GRB2-related adaptor protein
ENSMUSG00	4092.76439	0.44429736	0.1445937	3.07272965	0.00212111	0.08889137	Rsl1d1	ribosomal L1 domain containing 1
ENSMUSG00	2199.08716	0.59080836	0.1738536	3.39830968	0.00067804	0.03990504	Cpt1c	carnitine palmitoyltransferase 1c
ENSMUSG00	38971.5646	0.43822359	0.10143393	4.32028604	1.56E-05	0.00239348	Rplp1	ribosomal protein, large, P1
ENSMUSG00	3218.84829	0.76802214	0.16784965	4.57565542	4.75E-06	0.00088536	Fbxw9	F-box and WD-40 domain protein 9
ENSMUSG00	17873.4055	0.26975586	0.08609864	3.1331023	0.00172969	0.07679228	Ubc	ubiquitin C
ENSMUSG00	22853.2705	0.38655803	0.10065204	3.84053865	0.00012276	0.01179003	Rps18	ribosomal protein S18
ENSMUSG00	52.1349085	5.80130294	1.50699353	3.84958716	0.00011832	0.01167728	Gstt4	glutathione S-transferase, theta 4
ENSMUSG00	8320.50122	0.46771654	0.10872255	4.30192753	1.69E-05	0.00250734	Rps25	ribosomal protein S25
ENSMUSG00	2502.14832	0.60008774	0.19652661	3.05346816	0.00226213	0.09206136	Mrlp52	mitochondrial ribosomal protein L52
ENSMUSG00	3892.78384	0.51848688	0.16454388	3.15105545	0.00162682	0.07336013	Ndufa2	NADH:ubiquinone oxidoreductase subunit A2
ENSMUSG00	8019.18706	0.46440496	0.11392401	4.0764451	4.57E-05	0.00552436	Cox6c	cytochrome c oxidase subunit 6C
ENSMUSG00	47849.7587	0.25494435	0.06676004	3.81881695	0.00013409	0.01231137	H3f3b	H3.3 histone B
ENSMUSG00	15160.7344	0.44391828	0.09294887	4.77594046	1.79E-06	0.00037324	Rpl19	ribosomal protein L19
ENSMUSG00	35080.5173	0.72008279	0.0880706	3.06666241	0.00216463	0.08989252	Igf1rp4	insulin-like growth factor binding protein 4
ENSMUSG00	6969.26759	0.58180587	0.15997459	3.63686432	0.00027598	0.02118564	Dalr3d	DALR anticodon binding domain containing 3
ENSMUSG00	13216.7278	0.53944884	0.09969831	5.41081219	6.27E-08	1.95E-05	Cnng1	cyclin G1
ENSMUSG00	14914.7273	0.40246245	0.09263382	4.34465989	1.39E-05	0.00220491	Rps27a	ribosomal protein S27A
ENSMUSG00	2008.76237	0.721078	0.22147469	3.25580324	0.00113072	0.05819156	Mrlp54	mitochondrial ribosomal protein S24
ENSMUSG00	1078.737	1.02947531	0.31916438	3.22553327	0.00125738	0.0631525	Snhg16	small nucleolar RNA host gene 16
ENSMUSG00	3179.64221	0.98536249	0.25649829	3.84159478	0.00012224	0.01179003	Nr1d1	nuclear receptor subfamily 1, group D, member 1
ENSMUSG00	1349.65404	2.10520919	0.27375337	3.69016732	1.47E-14	2.59E-11	Krt24	keratin 24
ENSMUSG00	2817.97923	0.58244004	0.17424911	3.3423644	0.00083068	0.04639071	Gstz1	glutathione transferase zeta 1 (maleylacetacetate isomerase)
ENSMUSG00	2042.52861	0.82554885	0.23438767	3.52215132	0.00042806	0.02915506	Dglicy	D-glutamate cyclase
ENSMUSG00	1951.86277	0.67484465	0.21945546	3.07508705	0.00210441	0.08862853	Pcbd2	pterin 4 alpha carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (TCF1) 2
ENSMUSG00	5182.43667	0.54371286	0.16951941	3.20737819	0.00133951	0.06598771	Tnxd15	thioredoxin domain containing 15
ENSMUSG00	1497.99183	0.8522092	0.26617979	3.20163003	0.00136652	0.06645301	Tlbsa	thrombospondin 4
ENSMUSG00	30.8820778	8.25251411	0.203414305	4.0569979	4.97E-05	0.00586594	Dusp13	dual specificity phosphatase 13
ENSMUSG00	6277.14667	0.53004148	0.16347648	3.24231028	0.00118565	0.06047598	Olfm4	olfactomedin 4
ENSMUSG00	29.9861173	8.20980787	2.19884839	3.73368529	0.0001887	0.01586517	Rem2	rad and gem related GTP binding protein 2
ENSMUSG00	3501.57015	0.46889932	0.15385796	3.04761163	0.00230668	0.09297382	Slc22a17	solute carrier family 22 (organic cation transporter), member 17
ENSMUSG00	6626.66375	0.6124546	0.11978954	5.11275522	3.17E-07	8.10E-05	Carmil3	capping protein regulator and myosin 1 linker 3
ENSMUSG00	3198.45416	0.52092729	0.15440837	3.73369852	0.00074166	0.04287964	Ntan1	N-terminal Asn amidase
ENSMUSG00	13043.7233	0.74742521	0.15253426	4.90004825	9.58E-07	0.00021561	Scng	syncleuin, gamma
ENSMUSG00	10701.2833	0.61198761	0.13898508	4.40326104	1.07E-05	0.00174829	Cdkn1a	cyclin-dependent kinase inhibitor 1A (P21)
ENSMUSG00	50507.4726	0.39068736	0.1146224	3.40847311	0.00065328	0.03895464	Ccl25	chemokine (C-C motif) ligand 25
ENSMUSG00	6123.62775	0.54132735	0.14523505	3.72725001	0.00019358	0.01604062	Nfkbi	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, epsilon
ENSMUSG00	19270.1341	0.57922238	0.12083845	4.79336148	1.64E-06	0.00034857	Crip3	cysteine-rich protein 3
ENSMUSG00	5280.65718	0.4099319	0.13582215	3.01815209	0.00254321	0.09893958	Clp4	CAP-GLY domain containing linker protein family, member 4
ENSMUSG00	12204.9715	0.38874695	0.10509991	3.69883251	0.00021659	0.01762707	Hagb	hydroxacyl glutathione hydrolase
ENSMUSG00	3514.16857	0.50961751	0.14377572	3.54453105	0.00039331	0.02752346	Filp	fibroblast growth factor (acidic) intracellular binding protein
ENSMUSG00	734.444088	1.14631394	0.333887	3.43323919	0.00059642	0.03719981	Slit1	slit guidance ligand 1
ENSMUSG00	18218.3575	0.39779624	0.10392321	3.82779021	0.0001293	0.01207393	Rps24	ribosomal protein S24
ENSMUSG00	22389.0733	0.32962702	0.09332155	3.53216386	0.00041217	0.02841029	Rpl14	ribosomal protein L14
ENSMUSG00	7811.4973	0.44493486	0.10542749	4.22029276	2.44E-05	0.00335341	Lanc1	LanC (bacterial lantibiotic synthetase component C)-like 1
ENSMUSG00	852.974207	0.96670701	0.28080392	3.44264075	0.00057606	0.03652596	Pldc4	phospholipase C, delta 4
ENSMUSG00	3163.33494	0.70092144	0.1854565	3.77943854	0.00015718	0.01382302	Smyd2	SET and MYND domain containing 2
ENSMUSG00	3084.33958	0.58441884	0.15548848	3.75859901	0.00017087	0.01465387	Il2ra	interleukin 2 receptor, alpha chain
ENSMUSG00	13725.3815	0.37646298	0.10091153	3.7306239	0.00019101	0.01594242	Notch1	notch 1
ENSMUSG00	5271.09035	0.66988499	0.16841193	3.97765755	6.96E-05	0.00779254	Stk39	serine/threonine kinase 39
ENSMUSG00	910.676992	0.43559609	0.50389448	8.64458949	5.40E-18	1.38E-14	Abcb11	ATP-binding cassette, sub-family B (MDR/TAP), member 11
ENSMUSG00	2628.07368	0.5236763	0.1690691	3.09740989	0.0019522	0.08406902	Emc4	ER membrane protein complex subunit 4
ENSMUSG00	3892.5662	0.61078963	0.15604278	3.91424481	9.07E-05	0.00959241	Pascin3	protein kinase C and casein kinase substrate in neurons 3
ENSMUSG00	12049.3446	0.31756611	0.10511676	3.02107966	0.00251875	0.09848874	Psm2a7	proteasome subunit alpha 7
ENSMUSG00	170.189489	3.6683129	0.94259392	3.89172135	9.95E-05	0.01017437	1810062G17	RIKEN cDNA 1810062G17 gene
ENSMUSG00	37.6515391	8.5403777	2.25840259	3.78160109	0.00015582	0.01382302	Vepb1	ventricular zone expressed PH domain-containing 1
ENSMUSG00	1220.20801	0.84218347	0.24446313	3.44503272	0.00057099	0.03630454	Pmf1	polyamine-modulated factor 1
ENSMUSG00	26.2231871	8.01702197	2.09034661	3.83525962	0.00012543	0.0119462	Lrrc7	leucine rich repeat containing 7
ENSMUSG00	14566.4022	0.38619423	0.09920919	3.89272651	9.91E-05	0.01017437	Rps20	ribosomal protein S20
ENSMUSG00	24514.9978	0.33393632	0.09424259	3.54336937	0.00039505	0.02756097	Txn1	thioredoxin 1
ENSMUSG00	3259.8594	0.65226111	0.18892233	3.45253577	0.00055534	0.03570534	Echdc2	enoyl Coenzyme A hydratase domain containing 2
ENSMUSG00	4604.06991	0.66413564	0.19141884	3.46954175	0.00052135	0.03409253	Pib1	phospholipase B1
ENSMUSG00	8379.45048	0.51214828	0.13799719	3.71129491	0.0002062	0.01685926	Ndufa4	Ndufa4, mitochondrial complex associated
ENSMUSG00	295.78074	1.49990495	0.4730981	3.17038886	0.00152235	0.07073383	Timp4	tissue inhibitor of metalloproteinase 4
ENSMUSG00	7199.58818	0.48612648	0.13325817	3.64800513	0.00026428	0.02049365	Cpxm2	carboxypeptidase X 2 (M14 family)
ENSMUSG00	23.6839919	7.87076329	2.15994821	3.64395927	0.00026848	0.02074858	lqcm	IQ motif containing M
ENSMUSG00	30406.8469	0.30125587	0.08999471	3.34748431	0.00081549	0.04598981	Tagln	transgelin
ENSMUSG00	4178.06756	1.47909086	0.20320581	7.27878226	3.37E-13	4.55E-10	Mcam	melanoma cell adhesion molecule
ENSMUSG00	2641.34249	0.70110123	0.22968098	3.05250021	0.00226944	0.09219532	Stra6	stimulated by retinoic acid gene 6
ENSMUSG00	5374.98656	0.44332899	0.12929021	3.42894484	0.00060593	0.03758911	Cox7a2	cytochrome c oxidase subunit 7A2
ENSMUSG00	75515.2631	0.278675	0.0672527	4.14370002	3.42E-05	0.0044068	Rpl4	ribosomal protein L4
ENSMUSG00	4227.57976	0.48206032	0.14557158	3.31150017	0.00092797	0.05023523	Mras	muscle and microspikes RAS
ENSMUSG00	38.4983692	8.5717036	1.89605643	4.52080617	6.16E-06	0.0011047	Kbtbd12	kelch repeat and BTB (POZ) domain containing 12
ENSMUSG00	8932.29165	0.37521717	0.11704412	3.20577556	0.00134699	0.06606295	Atp6v0b	ATPase, H+ transporting, lysosomal V0 subunit B
ENSMUSG00	3660.13785	0.54392536	0.15223521	3.57292756	0.00035301	0.02564144	Eri3	exoribonuclease 3
ENSMUSG00	2275.17093	0.61617528	0.19520532	3.15654962	0.00159648	0.07261604	Dph5	diphthamide biosynthesis 5
ENSMUSG00	3307.4047	0.79220864	0.19631599	4.03537508	5.45E-05	0.00628787	Cpne2	copine II
ENSMUSG00	192.308414	2.54436683	0.68941099	3.69063866	0.00022369	0.01795243	Celf5	CUGBP, Elav-like family member 5
ENSMUSG00	2591.12149	0.79245154	0.18478506	4.28850444	1.80E-05	0.00263478	Ttc21b	tetratricopeptide repeat domain 21B
ENSMUSG00	12965.0483	0.38493729	0.12075734	3.18769264	0.00143413	0.06801149	Rps29	ribosomal protein S29
ENSMUSG00	4893.96826	0.94021861	0.17719119	5.30623788	1.12E-07	3.20E-05	Cobl1	Cobl-like 1
ENSMUSG00	1767.20054	0.78231971	0.22738149	3.44056024	0.00058051	0.03660878	Mrlp54	mitochondrial ribosomal protein L54
ENSMUSG00	11495.2833	0.66921653	0.10617579	6.3029108	2.92E-10	2.10E-07	Oma1	OMA1 zinc metallopeptidase
ENSMUSG00	46129.0462	0.31213299	0.09576895	3.25922962	0.00111715	0.05777082	Ubd	ubiquitin D
ENSMUSG00	1425.08361	0.78802602	0.2456949	3.20733563	0.00133971	0.06598771	Thyn1	thymocyte nuclear protein 1
ENSMUSG00	17296.1743	0.36953256	0.10215316	3.61743646	0.00029754	0.02239124	Acta2	actin alpha 2, smooth muscle, aorta
ENSMUSG00</								

ENSMUSG00	5188.59031	0.5696592	0.14895473	3.82437794	0.0001311	0.01217643	Large2	LARGE xylosyl- and glucuronyltransferase 2
ENSMUSG00	724.404253	1.29114066	0.33043136	3.90743979	9.33E-05	0.00977643	Matn1	matrilin 1, cartilage matrix protein
ENSMUSG00	24.9587984	7.9455438	2.12902733	3.73200648	0.00018996	0.01591301	Tmco5b	transmembrane and coiled-coil domains 5B
ENSMUSG00	18200.7993	0.30404446	0.08663645	3.50942899	0.00044907	0.03031618	Fmod	fibromodulin
ENSMUSG00	7230.751	0.49556809	0.15884855	3.12000393	0.00180849	0.07931883	Tspo	translocator protein
ENSMUSG00	12809.3512	0.44139075	0.11690611	3.54051203	0.00039935	0.02777671	Phlda3	pleckstrin homology like domain, family A, member 3
ENSMUSG00	12315.2149	0.44101144	0.11103711	3.97177487	7.13E-05	0.00794877	Rpl37	ribosomal protein L37
ENSMUSG00	4543.45708	0.56028488	0.16605346	3.37412348	0.00074051	0.04287964	Ndufa7	NADH:ubiquinone oxidoreductase subunit A7
ENSMUSG00	926.147673	1.14257581	0.29362884	3.89123398	9.97E-05	0.01017437	Metap1d	methionyl aminopeptidase type 1D (mitochondrial)
ENSMUSG00	13182.4348	0.46577979	0.12282295	3.79228622	0.00014927	0.01343576	S100a10	S100 calcium binding protein A10 (calpactin)
ENSMUSG00	1416.67222	1.43902336	0.29467979	4.88334598	1.04E-06	0.00023019	Dusp15	dual specificity phosphatase-like 15
ENSMUSG00	1307.84652	0.7940875	0.25094973	3.16432898	0.00155441	0.07178746	Sptssb	serine palmitoyltransferase, small subunit B
ENSMUSG00	31761.0162	0.26799855	0.07846344	3.41558486	0.00063645	0.03834247	Rpl7	ribosomal protein L7
ENSMUSG00	24.6352216	7.92578016	2.55569902	3.10121815	0.00192726	0.08315123	Stk-ps2	serine/threonine kinase 2
ENSMUSG00	26.1864142	8.01538949	2.48022718	3.23171586	0.00123049	0.06207366	NA	NA
ENSMUSG00	575.411437	0.98590596	0.32597481	3.02448511	0.00249057	0.09774125	D630023F18	RIKEN cDNA D630023F18 gene
ENSMUSG00	9017.4721	0.76321204	0.15093096	5.05666639	4.27E-07	0.00010416	Col27a1	collagen, type XXVII, alpha 1
ENSMUSG00	15975.164	0.58079012	0.12862174	4.5154894	6.32E-06	0.001124	Rpl37a	ribosomal protein L37a
ENSMUSG00	7157.08935	0.46632034	0.11697349	3.96346504	7.39E-05	0.00819097	Rbp1	retinol binding protein 1, cellular
ENSMUSG00	923.007052	1.0426525	0.34569162	3.0161347	0.00256019	0.09943173	Ltb4r1	leukotriene B4 receptor 1
ENSMUSG00	25.5484539	7.97895254	2.12691016	3.75142903	0.00017583	0.01500303	Gjd3	gap junction protein, delta 3
ENSMUSG00	29018.4878	0.37438381	0.0916038	4.08699016	4.37E-05	0.00531191	Rpl9	ribosomal protein L9
ENSMUSG00	24100.7796	0.3578479	0.09598453	3.72818322	0.00019287	0.01603925	Rps8	ribosomal protein S8
ENSMUSG00	6890.36851	0.5052146	0.12428745	4.34896231	1.37E-05	0.00218027	Foxo3	forkhead box O3
ENSMUSG00	32.0127528	8.30497941	2.01266371	4.12636217	3.69E-05	0.00462254	Ifnb1	interferon beta 1, fibroblast
ENSMUSG00	12194.8831	0.37571882	0.106946	5.51316395	0.0004428	0.02998137	Rps23	ribosomal protein S23
ENSMUSG00	32.4193982	8.32447079	1.97019847	4.22519402	2.39E-05	0.00334127	Enthd1	ENTH domain containing 1
ENSMUSG00	3157.85327	0.707768	0.1715116	4.12664806	3.68E-05	0.00462254	Commd3	COMM domain containing 3
ENSMUSG00	42.1621314	4.74594994	1.4995311	3.16499398	0.00155086	0.071768	Tarm1	T cell-interacting, activating receptor on myeloid cells 1
ENSMUSG00	10622.4756	0.4390571	0.12831667	3.42166834	0.00062238	0.03798041	Pdlim1	PDZ and LIM domain 1 (elfin)
ENSMUSG00	16.259284	21.4543772	3.31568947	6.47056288	9.76E-11	7.23E-08	Ctsr	cathepsin R
ENSMUSG00	20.1316099	7.6368348	2.27921538	3.35064201	0.00080624	0.04569316	Zfp981	zinc finger protein 981
ENSMUSG00	6011.88064	0.46405299	0.13286845	3.49257475	0.00047839	0.0316439	Rpl38	ribosomal protein L38
ENSMUSG00	15875.7895	0.48803947	0.1133928	4.30397229	1.68E-05	0.00250043	Rpl32	ribosomal protein L32
ENSMUSG00	6958.0291	0.71500807	0.1537219	4.65130917	3.30E-06	0.00064707	Rpl36	ribosomal protein L36
ENSMUSG00	26.1014191	8.01073405	2.08504533	3.84199515	0.00012204	0.01179003	Tdpoz3	TD and POZ domain containing 3
ENSMUSG00	20050.4208	0.25575789	0.07992572	3.19994459	0.00137454	0.06670152	Rpl5	ribosomal protein L5
ENSMUSG00	927.192263	1.23968983	0.36843905	3.36470803	0.00076625	0.04396917	Fcer1g	Fc receptor, IgE, high affinity I, gamma polypeptide
ENSMUSG00	27888.6802	0.43610296	0.09534207	4.57408758	4.78E-06	0.00088536	Rpl11	ribosomal protein L11
ENSMUSG00	4722.21831	0.4818419	0.15210319	3.16786184	0.00153564	0.07120738	Uqcrl3	ubiquinol-cytochrome c reductase, complex III subunit X
ENSMUSG00	1918.88959	0.60515819	0.19776475	3.05999013	0.00221344	0.09129006	Zfp637	zinc finger protein 637
ENSMUSG00	20.9917887	7.9666785	2.3044162	3.33997298	0.00083787	0.04645296	Slc10a4-ps	solute carrier family 10 (sodium/bile acid cotransporter family), pseudogene
ENSMUSG00	6199.60738	0.46610982	0.13092762	3.56005719	0.00037077	0.02651208	Rpl35a	ribosomal protein L35a
ENSMUSG00	13383.5331	0.4446031	0.09960732	4.46355862	8.06E-06	0.00137699	Rpl26	ribosomal protein L26
ENSMUSG00	13656.2895	0.42946035	0.10917601	3.93365119	8.37E-05	0.0090323	Rps7	ribosomal protein S7
ENSMUSG00	29307.3024	0.37556332	0.09762674	3.84693101	0.00011961	0.01173218	Rps12	ribosomal protein S12
ENSMUSG00	44.1540007	8.76963124	1.77573432	4.93859423	7.87E-07	0.00018244	Tex33	testis expressed 33
ENSMUSG00	1459.31326	0.74937966	0.23090288	3.24543228	0.00117272	0.05999893	Ifnlr1	interferon lambda receptor 1
ENSMUSG00	21149.8711	0.38811481	0.0829381	4.6795722	2.87E-06	0.00057377	Rpl17	ribosomal protein L17
ENSMUSG00	5776.49319	0.57250374	0.14574172	3.92820772	8.56E-05	0.0091365	Rpl35	ribosomal protein L35
ENSMUSG00	31539.3466	0.54689975	0.09195658	5.94736976	2.72E-09	1.06E-06	Rps15	ribosomal protein S15
ENSMUSG00	17599.6903	0.63714276	0.0928769	6.86007746	6.88E-12	6.58E-09	Ifi27	interferon, alpha-inducible protein 27
ENSMUSG00	6541.07529	0.6815243	0.16051566	4.24584294	2.18E-05	0.00310469	Scn1a	sodium channel, voltage-gated, type I, alpha
ENSMUSG00	152829.91	0.35660604	0.11160287	3.19531248	0.0013968	0.06707247	ND1	NADH dehydrogenase subunit 1
ENSMUSG00	113987.976	0.46091258	0.10057097	4.58295854	4.58E-06	0.00086251	ND2	NADH dehydrogenase subunit 2
ENSMUSG00	462413.588	0.52319957	0.089859	5.82245013	5.80E-09	2.08E-06	COX1	cytochrome c oxidase subunit I
ENSMUSG00	128665.229	0.58045148	0.09562813	6.06988206	1.28E-09	5.65E-07	ND4	NADH dehydrogenase subunit 4
ENSMUSG00	139457.481	0.33994219	0.10475231	3.24519992	0.00117368	0.05999893	ND5	NADH dehydrogenase subunit 5
ENSMUSG00	2401.4739	0.57451367	0.17973551	3.19643931	0.00139135	0.06707247	ND6	NADH dehydrogenase subunit 6
ENSMUSG00	425078	0.52132624	0.09692408	5.37870734	7.50E-08	2.27E-05	CYTB	cytochrome b
ENSMUSG00	1067.14228	0.48593833	0.26310822	3.2151725	0.00130366	0.06476828	Zfp810	zinc finger protein 810
ENSMUSG00	9207.39345	0.3835609	0.11416192	3.3597971	0.00078	0.04464658	Rps28	ribosomal protein S28
ENSMUSG00	20.430002	7.65776192	2.26476031	3.38126816	0.00072152	0.04203317	Krt74	keratin 74
ENSMUSG00	11159.2849	0.53352564	0.14689895	3.63192269	0.00028132	0.02131049	Myf9	myosin, light polypeptide 9, regulatory
ENSMUSG00	752.039159	1.28249605	0.37226074	3.44636414	0.00056818	0.03626985	Pscl1	proline/serine-rich coiled-coil 1
ENSMUSG00	2559.994	0.75719731	0.23796732	3.18193825	0.00146293	0.06900439	Nr2f1	nuclear receptor subfamily 2, group F, member 1
ENSMUSG00	3571.89677	0.49923	0.1619033	3.08350718	0.00204576	0.08695624	Psmb3	proteasome (prosome, macropain) subunit, beta type 3
ENSMUSG00	24.6103532	6.95326302	2.2029557	3.15633356	0.00159766	0.07261604	Tcrp1	taste receptor cell gene 1
ENSMUSG00	100.878531	3.42760732	1.07256957	3.19569696	0.00139494	0.06707247	Hsf5	heat shock transcription factor family member 5
ENSMUSG00	28.6025609	5.78893294	1.87785533	3.08273638	0.00205107	0.08702062	Npw	neuropeptide W
ENSMUSG00	37.3289663	8.0758249	2.48455136	3.25041543	0.00115237	0.0591728	1700010D01	RIKEN cDNA 1700010D01 gene
ENSMUSG00	28.83256996	8.34155899	1.9342836	4.31248027	1.61E-05	0.00243775	Mroh5	maestro heat-like repeat family member 5
ENSMUSG00	3676.34011	0.50071741	0.16287992	3.07415064	0.00211103	0.08874437	Cops9	COP9 signalosome subunit 9
ENSMUSG00	26.1730928	8.01498558	2.12976298	3.7633228	0.00016767	0.01457781	NA	NA
ENSMUSG00	17224.9073	0.34515397	0.10845093	3.18258192	0.00145968	0.06900439	S100a16	S100 calcium binding protein A16
ENSMUSG00	16499.8707	0.36623408	0.1158465	3.16137375	0.00157027	0.07226174	Nrbp2	nuclear receptor binding protein 2
ENSMUSG00	985.181916	0.89501674	0.28791995	3.10856108	0.00188001	0.0812652	Fyb2	FYN binding protein 2
ENSMUSG00	66.3446984	4.86325767	1.41351685	3.44053747	0.00058056	0.03660878	Serpina3m	serine (or cysteine) peptidase inhibitor, clade A, member 3M
ENSMUSG00	839.648638	1.47542123	0.27618755	5.34206683	9.19E-08	2.70E-05	Col22a1	collagen, type XXII, alpha 1
ENSMUSG00	6306.31975	0.55338624	0.15389806	3.59579731	0.0003234	0.02402262	Pglyrp2	peptidoglycan recognition protein 2
ENSMUSG00	8100.55741	0.34610265	0.10877883	3.1817097	0.00146408	0.06900439	Rpl39	ribosomal protein L39
ENSMUSG00	17.4052903	7.42784852	2.42219372	3.06657905	0.00216524	0.08989252	NA	NA
ENSMUSG00	20.6661203	6.69815628	2.1924499	3.05510119	0.00224985	0.09172418	Gm15710	ribosomal protein L13 pseudogene
ENSMUSG00	19.9427926	7.62426475	2.3155805	3.29259326	0.00099268	0.05311184	NA	NA
ENSMUSG00	2839.7399	1.28502647	0.22606188	5.68440148	1.31E-08	4.43E-06	Slc13a2os	solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2, opposite strand
ENSMUSG00	14.818588	1.73275925	3.41209478	6.2505862	4.09E-10	2.68E-07	NA	NA
ENSMUSG00	95.5704953	4.57067097	1.28629819	3.55330359	0.00038043	0.02703374	Gm15462	predicted gene 15462
ENSMUSG00	39.4261338	8.60475061	1.85374352	4.64182371	3.45E-06	0.00067176	Ubpap1l	ubiquitin-associated protein 1-like
ENSMUSG00	2190.46716	0.56044658	0.18186263	3.08170282	0.0020582	0.0871622	Snhg12	small nuclear RNA host gene 12
ENSMUSG00	32.4676844	5.56265793	1.78303015	3.11977783	0.00180987	0.07931883	NA	NA
ENSMUSG00	1432.30935	0.86033645	0.24394522	3.52676085	0.0042068	0.02886063	Snhg20	small nuclear RNA host gene 20
ENSMUSG00	25.6239946	7.98268518	2.52656886	3.15949638	0.00158042	0.07226174	NA	NA
ENSMUSG00	353.648338	1.32718619	0.43486569	3.05194506	0.0027364	0.09220281	NA	NA
ENSMUSG00	25.2799254	7.96362759	2.52048323	3.15956381	0.00158005	0.07226174	NA	NA
ENSMUSG00	38.7742493	5.49672761	1.65250492	3.3263003	0.00088007	0.04794185	NA	NA
ENSMUSG00	53.0520073	9.03549648	1.73650253	5.20327286	1.96E-07	5.17E-05	Gm1604a	predicted gene 1604a
ENSMUSG00	15977.056	0.37683493	0.11767095	3.20244667	0.00136266	0.06645301	Rps27	ribosomal protein S27
ENSMUSG00	27819.535	0.40636876	0.08620135	4.71418084	2.43E-0			

ENSMUSG00	20.2462493	7.64457156	2.47384333	3.09015994	0.00200049	0.08566639	NA	NA
ENSMUSG00	19.4486195	7.58736879	2.36481724	3.2084377	0.00133458	0.06598771	NA	NA
ENSMUSG00	18.4227575	7.50714056	2.37512298	3.16073763	0.0015737	0.07226174	2900060B14	RIKEN cDNA 2900060B14 gene
ENSMUSG00	19.3525868	7.57938528	2.30764739	3.28446422	0.00102176	0.05428835	NA	NA
ENSMUSG00	20.3953626	7.65684027	2.33198698	3.28339751	0.00102564	0.05436836	Lnp1	leukemia NUP98 fusion partner 1
ENSMUSG00	58.5317524	3.95793083	1.27276969	3.10969915	0.00187278	0.0811055	NA	NA
ENSMUSG00	23.7394398	7.87197651	2.20380065	3.57200027	0.00035427	0.02565125	NA	NA
ENSMUSG00	33.2714988	8.35962245	2.01661991	4.14536345	3.39E-05	0.00439965	1600027J07F	RIKEN cDNA 1600027J07 gene
ENSMUSG00	24.7662515	7.93754581	2.18532899	3.63219719	0.00028102	0.02131049	NA	NA
ENSMUSG00	25.9622284	8.00247886	2.16750179	3.69202872	0.00022247	0.01791722	4933433G08	RIKEN cDNA 4933433G08 gene
ENSMUSG00	23.2303073	7.84125026	2.20351519	3.55851881	0.00037295	0.026585	NA	NA
ENSMUSG00	29.8755927	8.20508135	1.99534377	4.11211415	3.92E-05	0.00489064	Gm33340	predicted gene, 33340
ENSMUSG00	1748.86654	0.8316157	0.23434425	3.54869265	0.00038715	0.02737734	NA	NA
ENSMUSG00	4081.0768	0.61923793	0.19529486	3.17078461	0.00152028	0.07073383	NA	NA
ENSMUSG00	23.1312746	7.83783633	2.55871379	3.06319384	0.00218988	0.0905664	NA	NA
ENSMUSG00	4407.28923	0.77563455	0.22885829	3.38914771	0.0007011	0.04115704	NA	NA
ENSMUSG00	4390.81662	0.91262081	0.2179131	4.18800335	2.81E-05	0.00378459	Bc1	brain cytoplasmic RNA 1
ENSMUSG00	23.5255617	7.85961608	2.59206546	3.03218272	0.00242792	0.09632184	NA	NA

Table 3. Downregulated in cKO mTEC

row	baseMean	log2FoldChai fCSe	stat	pvalue	padj	symbol	geneName
ENSMUSGOC 1600.81614	-0.7070154	0.16941932	-4.1731688	3.00E-05	0.00230429	H19	H19, imprinted maternally expressed transcript
ENSMUSGOC 1311.07349	-0.3756973	0.11989813	-3.1350917	0.001718	0.04683633	Cdh4	cadherin 4
ENSMUSGOC 1421.29175	-0.778123	0.1327496	-3.6122659	0.0003053	0.0143214	Gm2a	Gm2 ganglioside activator protein
ENSMUSGOC 1421.76529	-0.4344665	0.14790294	-2.9375107	0.0033089	0.07119604	Seaf6	seizure related gene 6
ENSMUSGOC 1299.4911	-0.4723119	0.13257868	-3.5625029	0.00036734	0.01611798	Ckb	creatine kinase, brain
ENSMUSGOC 1662.09463	-0.5607984	0.12771024	-4.3911783	1.13E-05	0.00108459	Peg3	paternally expressed 3
ENSMUSGOC 6673.47419	-0.3087839	0.10339214	-2.9865319	0.00282161	0.06586162	Jag2	jagged 2
ENSMUSGOC 186.134532	-0.7772669	0.2575738	-3.0176473	0.00254745	0.06056476	Pkrar2b	protein kinase, cAMP dependent regulatory, type II beta
ENSMUSGOC 982.473998	-0.6953374	0.11641265	-5.97304	2.33E-09	6.54E-07	Hck	hemopoietic cell kinase
ENSMUSGOC 3029.08884	-0.3158784	0.09051964	-3.4896115	0.00048372	0.01972617	Pld3	phospholipase D family, member 3
ENSMUSGOC 529.912357	-0.5717633	0.16827541	-3.3977829	0.00067394	0.02506229	St8sia6	ST8 alpha-N-acetyl-neuraminidase alpha-2,8-sialyltransferase 6
ENSMUSGOC 1145.07205	-0.3144156	0.10080283	-3.1191149	0.00181395	0.04877782	Coc8b	coenzyme Q8B
ENSMUSGOC 101.45256	-1.0041516	0.30930772	-3.2464484	0.00116855	0.03685519	Hff	hepatic leukemia factor
ENSMUSGOC 5313.13126	-0.2829519	0.08460933	-3.3442165	0.00062515	0.02902705	Ptpn6	protein tyrosine phosphatase, non-receptor type 6
ENSMUSGOC 867.60374	-0.5505607	0.12109286	-4.5465993	5.45E-06	0.00059334	Gal2	growth factor receptor bound protein 2-associated protein 2
ENSMUSGOC 357.029227	-1.2780237	0.20554551	-6.2177164	5.04E-10	1.63E-07	Chn2	chimerin 2
ENSMUSGOC 1135.26156	-0.5260657	0.14091782	-3.7331384	0.00018911	0.00974007	Pgf	placental growth factor
ENSMUSGOC 412.433402	-0.4762462	0.16411017	-2.901991	0.00370799	0.07854898	Sh2b2	SH2B adaptor protein 2
ENSMUSGOC 1306.01053	-0.3802054	0.12204321	-3.1153344	0.00183737	0.04907061	Klf5	Kruppel-like factor 5
ENSMUSGOC 10304.1181	-0.2773428	0.09923188	-2.7948959	0.00519164	0.09861739	Cic	capicua transcriptional repressor
ENSMUSGOC 5353.94366	-0.3897009	0.08823452	-4.1166487	1.00E-05	0.00098618	Igf1r	insulin-like growth factor I receptor
ENSMUSGOC 5620.6393	-0.6375779	0.12132878	-5.2549602	1.48E-07	2.53E-05	Cyp2a5	cytochrome P450, family 2, subfamily a, polypeptide 5
ENSMUSGOC 1705.62616	-0.5858202	0.10547273	-6.2179128	5.04E-10	1.63E-07	At4pa	ATPase, H+/K+ exchanging, gastric, alpha polypeptide
ENSMUSGOC 5008.57636	-0.2566496	0.08162791	-3.1443956	0.00116643	0.04629473	Kit	KIT proto-oncogene receptor tyrosine kinase
ENSMUSGOC 937.679799	-0.8286268	0.14177103	-5.8448331	5.07E-09	1.28E-06	Neur11a	neuronal E3 ubiquitin protein ligase 1A
ENSMUSGOC 1984.58561	-0.5397713	0.16532294	-3.2649511	0.00109483	0.03570088	Krt23	keratin 23
ENSMUSGOC 592.634183	-0.4950679	0.17469749	-2.8338584	0.00459897	0.0905755	Chrd	chordin
ENSMUSGOC 6462.12969	-0.4446486	0.11373492	-3.9095168	9.25E-05	0.00551497	Atp1a2	ATPase, Na+/K+ transporting, alpha 2 polypeptide
ENSMUSGOC 2507.52286	-0.4656794	0.11681621	-3.986428	6.71E-05	0.00442419	Id3	inhibitor of DNA binding 3
ENSMUSGOC 584.872068	-0.5354345	0.1743598	-3.0708598	0.00213443	0.05382006	Fzd3	fizzled class receptor 3
ENSMUSGOC 1340.44817	-0.3470099	0.12056065	-2.8783018	0.00399822	0.08270165	Rbfoc1	RNA binding protein, fox-1 homolog (C. elegans) 1
ENSMUSGOC 4009.01518	-1.1445795	0.13418859	-7.9920581	1.33E-15	1.44E-12	Trpm5	transient receptor potential cation channel, subfamily M, member 5
ENSMUSGOC 781.274962	-0.4723857	0.12963498	-3.2615092	0.00110821	0.03586846	Ctgef	catelepin
ENSMUSGOC 1855.4424	-0.3005035	0.1009197	-2.9776496	0.00290468	0.06690366	Kcnq1	potassium voltage-gated channel, subfamily Q, member 1
ENSMUSGOC 679.057807	-0.4843993	0.15269505	-3.1722898	0.00151242	0.04338676	Pou6f1	POU domain, class 6, transcription factor 1
ENSMUSGOC 2145.122	-0.3514804	0.09969394	-3.5254031	0.00042284	0.0179975	Cacna2d2	calcium channel, voltage-dependent, alpha 2/delta subunit 2
ENSMUSGOC 579.932084	-0.5302707	0.16595548	-3.1952585	0.00139706	0.04116234	Spire2	spire type actin nucleation factor 2
ENSMUSGOC 459.241816	-0.8069683	0.1720583	-4.6900864	2.73E-06	0.00033488	Prox1	prospero homeobox 1
ENSMUSGOC 599.981113	-0.4967501	0.16809944	-2.955097	0.00312571	0.0694234	Igln5	IgLO family member 5
ENSMUSGOC 572.658032	-0.390348	0.13427836	-2.907006	0.00364906	0.07758379	Clip3	CAP-GLY domain containing linker protein 3
ENSMUSGOC 4797.32191	-0.2568188	0.08409758	-3.1903909	0.0014208	0.04159741	Arm2	aryl hydrocarbon receptor nuclear translocator 2
ENSMUSGOC 1469.01247	-0.3294746	0.10497568	-3.1385306	0.00169768	0.0467749	Eps8	epidermal growth factor receptor pathway substrate 8
ENSMUSGOC 604.005976	-0.5832885	0.13895899	-4.1975585	2.70E-05	0.0021068	Il11rb	interleukin 11 receptor b
ENSMUSGOC 2121.66728	-0.3300881	0.12129659	-2.939431	0.00328815	0.07193045	Chdh	choline dehydrogenase
ENSMUSGOC 286.325416	-0.6519379	0.18882536	-3.4525973	0.00055522	0.02182392	Syt14	synaptotagmin XIV
ENSMUSGOC 684.972643	-0.59736	0.15555167	-3.8402673	0.0001229	0.0069407	Sertad4	SERTA domain containing 4
ENSMUSGOC 625.191802	-0.5959008	0.17034103	-3.4982811	0.00046827	0.01934153	Eef1a2	eukaryotic translation elongation factor 1 alpha 2
ENSMUSGOC 248.048904	-0.7829588	0.21564021	-3.6308571	0.00028248	0.0134763	Il10	interleukin 10
ENSMUSGOC 8252.12673	-0.280491	0.07854849	-3.5709283	0.00035572	0.01591028	Ctnnap1	contactin associated protein-like 1
ENSMUSGOC 2203.62046	-0.2465192	0.08767849	-2.8116272	0.00492916	0.09473669	Nlk	nemo like kinase
ENSMUSGOC 443.847512	-0.5547547	0.17933257	-3.0934409	0.0019785	0.05139883	Hnf4a	hepatic nuclear factor 4, alpha
ENSMUSGOC 2884.55921	-0.3337303	0.1064434	-3.133551	0.00171532	0.0463633	Cadps2	Ca2+-dependent activator protein for secretion 2
ENSMUSGOC 2087.32142	-0.3578406	0.12458379	-2.8722887	0.00407511	0.08376493	Zbtb4	zinc finger and BTB domain containing 4
ENSMUSGOC 3555.77959	-0.3398754	0.10487154	-3.2408739	0.00119164	0.03725315	Acs1	acyl-CoA synthetase long-chain family member 1
ENSMUSGOC 1569.10332	-0.3284107	0.1116477	-2.9414913	0.00326636	0.07163367	Syne4	spectrin repeat containing, nuclear envelope family member 4
ENSMUSGOC 16202.1203	-0.2259079	0.06939196	-3.2555341	0.00113179	0.03636146	Cd164	CD164 antigen
ENSMUSGOC 197.225407	-0.7273731	0.20650993	-3.5222187	0.00042795	0.01813117	Mgat4c	MGAT4 family, member C
ENSMUSGOC 3286.8058	-0.3344127	0.11345409	-2.9475594	0.00320293	0.07077749	Adc15b	AT rich interactive domain SB (MRF1-like)
ENSMUSGOC 2684.8151	-0.4407416	0.13227633	-3.3319759	0.00086232	0.03047275	Sgk1	serum/glucocorticoid regulated kinase 1
ENSMUSGOC 1384.65856	-0.3784221	0.12297068	-3.0773359	0.0020886	0.03015169	Unc5b	unc-5 netrin receptor B
ENSMUSGOC 935.204363	-0.4684963	0.12390909	-3.7809683	0.00015622	0.00838512	Cpm	carboxypeptidase M
ENSMUSGOC 541.85196	-0.5108671	0.12321787	-3.8486308	0.00439078	0.0870653	Ltcs4	leukotriene C4 synthase
ENSMUSGOC 954.630603	-0.5431683	0.18185417	-3.9868344	0.00281882	0.06586162	Aebp1	AE binding protein 1
ENSMUSGOC 781.460568	-1.1484627	0.1955001	-5.8744868	4.24E-09	1.12E-06	Pik3cg	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma
ENSMUSGOC 678.19052	-0.4594351	0.16126393	-2.8489638	0.00438619	0.08796053	Rgs9	regulator of G-protein signaling 9
ENSMUSGOC 202.842952	-0.9642039	0.2163707	-4.5559314	5.22E-06	0.00057117	Fam20a	FAM20A, golgi associated secretory pathway pseudokinase
ENSMUSGOC 2234.09472	-0.457004	0.10769123	-2.4440224	2.20E-05	0.0018033	Id2	inhibitor of DNA binding 2
ENSMUSGOC 240.042507	-0.5847811	0.18432351	-3.1725802	0.00151091	0.04338676	Mboat2	membrane bound O-acyltransferase domain containing 2
ENSMUSGOC 213.890063	-0.6532786	0.18976926	-3.4424891	0.00057639	0.02235329	Rab37	RAB37, member RAS oncogene family
ENSMUSGOC 14700.0997	-0.40516	0.09412574	-4.304455	1.67E-05	0.00144677	Atp2a3	ATPase, Ca++ transporting, ubiquitous
ENSMUSGOC 4538.54688	-0.3576553	0.10383781	-3.4593562	0.00054147	0.02142861	Sec14l1	SEC14-like lipid binding 1
ENSMUSGOC 279.80536	-0.7332314	0.2522509	-2.8734142	0.00406061	0.08357856	Dock2	double C2, beta
ENSMUSGOC 2604.36212	-0.8383857	0.10890326	-7.6984439	1.38E-14	1.33E-11	Pik3rs	phosphoinositide 3-kinase regulatory subunit 5
ENSMUSGOC 1984.76973	-0.3254739	0.1029435	-3.1616749	0.00156865	0.04461724	Sptb	spectrin beta, erythrocytic
ENSMUSGOC 3250.75548	-0.4007767	0.13117892	-3.0551912	0.00224917	0.05594973	Clmn	calmin
ENSMUSGOC 104.616641	-1.3274573	0.37244263	-3.5641926	0.00036498	0.01611798	Meg3	maternally expressed 3
ENSMUSGOC 1523.87113	-0.493688	0.15435624	-3.1983675	0.00138208	0.04099858	Id4	inhibitor of DNA binding 4
ENSMUSGOC 502.788952	-0.7902594	0.14112119	-5.5998631	2.15E-08	4.50E-06	Barx1	BarH-like homeobox 1
ENSMUSGOC 1642.99016	-1.3246875	0.12646574	-10.474674	1.13E-25	3.93E-22	Cxcl14	chemokine (C-X-C motif) ligand 14
ENSMUSGOC 1535.78503	-0.5073561	0.16814309	-3.017407	0.00254947	0.06056476	Adcy2	adenylylate cyclase 2
ENSMUSGOC 2327.16637	-0.9689638	0.12590909	-7.1350367	9.68E-13	6.02E-10	Mctp1	multiple C2 domains, transmembrane 1
ENSMUSGOC 111.533957	-0.8938733	0.31564554	-2.8318897	0.00467398	0.09094424	Acat12	acyl-CoA thioesterase 12
ENSMUSGOC 1496.96057	-0.3395689	0.11981545	-2.8340993	0.00459551	0.0905755	Iqgap2	IQ motif containing GTPase activating protein 2
ENSMUSGOC 183.184468	-0.7094307	0.24122704	-2.9409251	0.00327234	0.07167447	Rgs7bp	regulator of G-protein signalling 7 binding protein
ENSMUSGOC 3419.73652	-0.3640684	0.09754124	-3.732456	0.00018962	0.00974007	Emb	embigin
ENSMUSGOC 1359.70188	-0.5049154	0.17301526	-2.9183289	0.00351913	0.07555931	Fst	folistatin
ENSMUSGOC 1407.48926	-0.3465582	0.11712488	-2.9588775	0.00308762	0.06896803	Txndc16	thioredoxin domain containing 16
ENSMUSGOC 332.867037	-0.9811583	0.21173367	-4.6339269	3.59E-06	0.00041931	Chat	choline acetyltransferase
ENSMUSGOC 1813.86455	-0.3993428	0.12431905	-3.2122441	0.00131704	0.03974624	Nefm	neurofilament, medium polypeptide
ENSMUSGOC 990.86245	-0.5187006	0.15259106	-3.3992855	0.00067562	0.04077792	Neil	neurofilament, light polypeptide
ENSMUSGOC 1914.5468	-0.688739	0.10204027	-5.9624013	2.49E-09	6.57E-07	Fyb	FYB binding protein
ENSMUSGOC 500.074412	-0.6189653	0.17422225	-3.5527241	0.00038125	0.0166242	Sema5a	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) SA
ENSMUSGOC 409.895029	-0.6053806	0.20556436	-2.9449686	0.00322587	0.07110214	Adcy8	adenylylate cyclase 8
ENSMUSGOC 271.741746	-0.7732279	0.20751127	-3.7264434	0.0001942	0.00988915	Syng1	synaptogyrin 1
ENSMUSGOC 1710.44001	-0.3782672	0.11369799	-3.3269473	0.00087803	0.03039589	Deptor	DEP domain containing MTOR-interacting protein
ENSMUSGOC 2371.37665	-0.4793986	0.13942772	-3.4383303	0.00058531	0.02258073	Col2a1	collagen, type II, alpha 1
ENSMUSGOC 1376.57456	-0.4904806	0.15637711	-3.1365246	0.00170963	0.04683633	Psc4	prostate stem cell antigen
ENSMUSGOC 8146.97905	-0.3446646	0.0770888	-4.4710078	7.79E-06	0.00079743	Alcam	activated leukocyte cell adhesion molecule
ENSMUSGOC 520.976905	-0.4937765	0.1518107	-3.2525805	0.00114362	0.03667383	Aifm3	apoptosis-inducing factor, mitochondrion-associated 3
ENSMUSGOC 355.335271	-1.0069204	0.20592523	-4.8897378	1.01E-06	0.00014179	Clcf6	chloride intracellular channel 6
ENSMUSGOC 1294.32761	-0.5365963	0.15423308	-3.4791256	0.00050305	0.02032403	Rum1	run1 related transcription factor 1
ENSMUSGOC 19598.5565	-0.3038633	0.07917936	-3.8376576	0.00012421	0.00697719	Ivns1a1p	influenza virus NS1A binding protein
ENSMUSGOC 409.604395	-0.7449667	0.2060587	-3.6153131	0.00029998	0.01404203	Kcnk5	potassium channel, subfamily K, member 5
ENSMUSGOC 3044.52381	-0.9861361	0.15341595					

ENSMUSG0C	6840.71832	-0.414484	0.08706424	-4.7606687	1.93E-06	0.00024525	Nfasc
ENSMUSG0C	840.104365	-0.8542541	0.18939917	-4.5103371	6.47E-06	0.00068306	Myog
ENSMUSG0C	314.326853	-0.6445543	0.24010873	-3.1578966	0.00158912	0.04486155	Dusp27
ENSMUSG0C	13774.456	-0.3181488	0.11102808	-2.8654807	0.00416377	0.08499844	Atp1b1
ENSMUSG0C	875.469697	-0.452439	0.12403365	-3.6477119	0.00026459	0.01283253	Ilg8a8
ENSMUSG0C	482.843262	-0.8279997	0.26149961	-3.1663516	0.00154364	0.04406662	Eng
ENSMUSG0C	385.658433	-0.5527055	0.1752423	-3.15395	0.00161077	0.04538557	Galnt5
ENSMUSG0C	2458.9062	-0.5844573	0.11900007	-4.9114029	9.04E-07	0.00012802	Neb
ENSMUSG0C	724.892696	-0.4593618	0.16191029	-2.8371379	0.00455199	0.09007259	Slc43a1
ENSMUSG0C	909.658965	-0.8020044	0.18634003	-0.3039836	1.68E-05	0.00144677	Gfra4
ENSMUSG0C	2904.43608	-0.3589951	0.11109601	-3.2313951	0.00123188	0.03796574	Pdyn
ENSMUSG0C	1402.31948	-0.4189405	0.14055563	-2.980603	0.00287681	0.06650074	Tgm3
ENSMUSG0C	1608.37076	-1.1629933	0.26797704	-4.3398993	1.43E-05	0.00130511	Pck1
ENSMUSG0C	720.405213	-0.5747341	0.146792	-3.9152995	9.03E-05	0.00542165	Car2
ENSMUSG0C	1133.95087	-0.4071356	0.14366192	-3.721536	0.00106596	0.03035442	Epb4111
ENSMUSG0C	106.594633	-0.9862643	0.31464767	-3.1345028	0.00172145	0.04683633	Ofm13
ENSMUSG0C	989.857851	-0.3148723	0.11112294	-2.8335495	0.0460342	0.0905755	Tspan2
ENSMUSG0C	186.900552	-0.7909453	0.27384602	-2.8882848	0.00387349	0.08097129	Kcnc4
ENSMUSG0C	1321.7688	-0.5594418	0.15169773	-3.6878718	0.00022614	0.01118674	Enpep
ENSMUSG0C	460.573108	-0.7113789	0.20862424	-3.4098573	0.00064997	0.02411999	Dkk2
ENSMUSG0C	724.070466	-0.4838255	0.12802283	-3.7792129	0.00015732	0.00838512	Calb1
ENSMUSG0C	1057.19767	-0.3447751	0.11683636	-2.9509231	0.00316826	0.07012041	Brinp1
ENSMUSG0C	852.814518	-0.3884955	0.1306647	-2.9732247	0.00294689	0.06715766	Fmn2
ENSMUSG0C	752.098695	-0.5084801	0.17108461	-2.9720973	0.00295773	0.06715766	Kif12
ENSMUSG0C	1046.22345	-0.655612	0.15458887	-3.0204141	0.00254229	0.06026117	Zfp618
ENSMUSG0C	2918.08009	-0.3343191	0.11526297	-2.9004904	0.00372579	0.07861012	Smn30
ENSMUSG0C	3717.88345	-0.2980677	0.08591824	-3.4692018	0.00052201	0.02080025	Dyrk2
ENSMUSG0C	374.957201	-0.8960192	0.20859954	-4.2954035	1.74E-05	0.00148985	Kcnq4
ENSMUSG0C	1743.44845	-0.4894777	0.12608125	-3.8822397	0.0001035	0.00608859	Tspan1
ENSMUSG0C	2716.17223	-0.3620117	0.09596407	-3.7723669	0.00016171	0.00850692	Pink1
ENSMUSG0C	2020.30973	-1.2028438	0.14010715	-5.851707	9.07E-18	1.44E-14	Gnat3
ENSMUSG0C	132.481305	-0.6830782	0.24417596	-2.7974833	0.00515024	0.09816838	A3galt2
ENSMUSG0C	3028.208	-0.5575102	0.11199394	-4.9780393	6.42E-07	9.48E-05	Espn
ENSMUSG0C	322.743249	-0.5674489	0.21186938	-3.1532847	0.00163111	0.04559307	Tas1i3
ENSMUSG0C	6234.547123	-0.2467088	0.07551534	-3.2648036	0.00109734	0.03571557	Seit13
ENSMUSG0C	3081.28511	-0.2450754	0.08321498	-2.9450875	0.00322863	0.07110214	D5Ertd579e
ENSMUSG0C	322.314972	-0.6536832	0.21721836	-3.0093367	0.00261819	0.06186769	Cckar
ENSMUSG0C	258.537409	-0.6191238	0.21345884	-2.9004364	0.00372643	0.07861012	Chma9
ENSMUSG0C	228.549037	-0.6513995	0.22615042	-2.8803818	0.00397194	0.08243547	Sult1d1
ENSMUSG0C	976.882864	-0.6016083	0.16933651	-3.5485472	0.00038736	0.01677897	Nos1
ENSMUSG0C	787.394804	-0.5835311	0.17087782	-3.4149026	0.00063805	0.02414943	Rimbp2
ENSMUSG0C	200.59491	-0.8485617	0.24614313	-3.4474319	0.00056594	0.02209589	Fezf1
ENSMUSG0C	18846.3274	-0.3005307	0.07482547	-4.0164223	5.91E-05	0.00395733	Ahyt2
ENSMUSG0C	1092.01326	-0.5500731	0.13024801	-4.8118173	1.50E-06	0.00020034	Hpgb3
ENSMUSG0C	17955.3232	-0.4718966	0.13024801	-3.618062	0.00029682	0.01400072	Reg3
ENSMUSG0C	1036.41105	-0.4205385	0.13530705	-3.1080308	0.00188338	0.049841	Gxyl2
ENSMUSG0C	4278.19278	-0.9612208	0.13647532	-7.0431835	1.88E-12	1.13E-09	Irag2
ENSMUSG0C	1190.10997	-0.5370854	0.15194252	-3.5347933	0.00040809	0.01745982	Tmtc1
ENSMUSG0C	1908.17234	-0.3929252	0.11885513	-3.3059166	0.00094666	0.03200823	Slc8a2
ENSMUSG0C	503.673023	-0.543312	0.17337562	-3.1337277	0.00172601	0.04683633	Kcm
ENSMUSG0C	3288.9634	-0.4268368	0.09302835	-4.5882443	4.47E-06	0.00050542	Psd3
ENSMUSG0C	4714.18966	-0.267634	0.09003245	-2.9726394	0.00295251	0.06715766	Kctd15
ENSMUSG0C	767.516216	-0.5498077	0.15041582	-3.6552515	0.00025693	0.01249699	Pck6
ENSMUSG0C	4435.53061	-0.3435204	0.10702131	-3.2098314	0.00132813	0.03909957	Tjp1
ENSMUSG0C	1601.39325	-0.3739646	0.09128015	-3.0926436	0.00198382	0.05140521	Crc3
ENSMUSG0C	6951.65352	-0.3188484	0.09375016	-3.4010438	0.00067129	0.02487061	Furin
ENSMUSG0C	5235.56519	-0.3363068	0.08209553	-4.0965306	4.19E-05	0.00299657	Ctsc
ENSMUSG0C	591.664306	-0.4439468	0.1469822	-3.0204123	0.00252431	0.06026117	Sytl2
ENSMUSG0C	569.392933	-0.4133718	0.13654438	-3.0273808	0.00246683	0.05957685	Tmc5
ENSMUSG0C	354.756562	-0.6534675	0.17483787	-3.7375626	0.00018581	0.00960106	Pde3b
ENSMUSG0C	710.912858	-0.4758607	0.15069328	-3.1578097	0.00158959	0.04486155	Myf6
ENSMUSG0C	2725.39177	-0.3855246	0.09745969	-3.9557337	7.63E-05	0.00484896	Sez6l
ENSMUSG0C	492.647769	-0.699924	0.17721973	-3.94847	7.83E-05	0.00499595	Pgm211
ENSMUSG0C	727.619795	-0.5803171	0.18645828	-3.612862	0.00157091	0.04454724	Slc12a1
ENSMUSG0C	3721.06638	-0.4095178	0.14337814	-2.8562083	0.00428734	0.08670779	Mylh14
ENSMUSG0C	2025.48271	-0.3726141	0.10453956	-3.5643359	0.00036478	0.01611798	Arhgap17
ENSMUSG0C	1790.91281	-0.4162931	0.11232031	-3.7062868	0.00021032	0.0105847	Pak1
ENSMUSG0C	706.295756	-0.5722905	0.1256118	-3.1644498	0.00091169	0.0311891	Ptpn5
ENSMUSG0C	1045.06471	-0.3966424	0.12434997	-3.1897268	0.00142407	0.04159741	Cdr2
ENSMUSG0C	461.881156	-0.4223412	0.1492882	-2.8290324	0.0046689	0.09155349	Hpx
ENSMUSG0C	930.395539	-0.4433563	0.153213	-2.8937248	0.00380702	0.07996572	Crym
ENSMUSG0C	1529.29104	-0.3854668	0.12711068	-3.0325289	0.00242514	0.05881468	Ank4b
ENSMUSG0C	1634.30961	-0.3610562	0.12922225	-2.7940714	0.0052049	0.09861739	S0k33
ENSMUSG0C	367.146491	-1.1891364	0.27116144	-4.311545	1.62E-05	0.00143297	Mrgprf
ENSMUSG0C	235.630184	-0.7206488	0.2716993	-3.2505688	0.00115174	0.03668296	Srp2
ENSMUSG0C	234.269213	-1.4358762	0.27344954	-5.2509731	1.51E-07	2.56E-05	Dcx
ENSMUSG0C	1080.72618	-1.2384206	0.17357044	-7.1349744	9.68E-13	6.02E-10	Bmx
ENSMUSG0C	1326.41919	-0.3513082	0.11583648	-3.0327942	0.00242301	0.05881468	Abcd1
ENSMUSG0C	1561.77335	-0.6115124	0.11510985	-5.312425	1.08E-07	1.94E-05	Arhgap4
ENSMUSG0C	1646.11793	-0.3933412	0.12331356	-3.1897113	0.00142415	0.04159741	L1cam
ENSMUSG0C	477.928005	-0.5691447	0.20058471	-2.8374282	0.00454786	0.09007259	F1
ENSMUSG0C	575.69206	-0.8825771	0.16880694	-5.2283221	1.71E-07	2.84E-05	Slit2
ENSMUSG0C	4943.96767	-0.5647447	0.13620308	-3.7028878	0.00021316	0.01696666	Hpgd
ENSMUSG0C	326.329979	-0.5545292	0.1936315	-3.7850895	0.00533646	0.09959676	Nr3c2
ENSMUSG0C	626.578022	-0.5231	0.17627432	-2.9675335	0.003002	0.06774365	Sorbs2
ENSMUSG0C	989.815126	-0.5132131	0.13124095	-3.9104646	9.21E-05	0.00551225	Crispld2
ENSMUSG0C	342.904353	-0.9737226	0.21547063	-4.5190502	6.21E-06	0.00065955	Cdh13
ENSMUSG0C	378.612398	-0.8585462	0.18412817	-4.662764	3.12E-06	0.00036957	Car7
ENSMUSG0C	452.324455	-1.134197	0.25387393	-4.3857188	1.16E-05	0.0011	Acta1
ENSMUSG0C	756.507792	-0.7430285	0.13908582	-5.3422307	9.18E-08	1.70E-05	Agtr
ENSMUSG0C	301.451086	-0.5120504	0.17959654	-2.8511154	0.00435662	0.08770145	Usp2
ENSMUSG0C	2106.75787	-0.4201942	0.10622336	-3.9557612	7.63E-05	0.00484896	Pou2f3
ENSMUSG0C	742.019539	-0.4047429	0.13628958	-3.2491388	0.0011398	0.03672836	Kirre3
ENSMUSG0C	780.485795	-0.5915278	0.18402294	-3.2144245	0.00130706	0.03957499	Lipase
ENSMUSG0C	2713.68747	-0.5572513	0.13237274	-4.2097131	2.56E-05	0.00203307	Ltf
ENSMUSG0C	547.61057	-0.7737251	0.13203652	-5.8587348	4.66E-09	1.21E-06	Rab6b
ENSMUSG0C	2132.39609	-0.2868106	0.09435351	-3.0397452	0.00236778	0.05798906	Pkar2a
ENSMUSG0C	501.725525	-0.8735156	0.17481072	-4.9969221	5.83E-07	8.82E-05	Lmo2
ENSMUSG0C	5095.84101	-0.2482777	0.07493761	-3.3131255	0.0009226	0.03143867	Inpp1
ENSMUSG0C	1556.41035	-0.3752827	0.11825945	-3.172444	0.00151162	0.04338676	Ptcn1
ENSMUSG0C	2039.70868	-0.3384757	0.10158865	-3.3318259	0.00086278	0.03004725	Heyl
ENSMUSG0C	130.31879	-1.0952105	0.31856526	-3.4379472	0.00058614	0.02258073	P2ry2
ENSMUSG0C	1897.33824	-0.3358132	0.09086042	-3.695924	0.00021909	0.01089997	Nfatc1
ENSMUSG0C	425.69787	-0.4287373	0.13609561	-3.1502653	0.00163122	0.04559307	Cd61
ENSMUSG0C	3264.69442	-0.3222962	0.09464008	-3.4054938	0.00066045	0.02467882	Lmo7
ENSMUSG0C	2198.64527	-0.5273377	0.15962454	-3.3036128	0.00095448	0.03211497	Resp18
ENSMUSG0C	1399.5036	-0.3928094	0.11213256	-3.5038083	0.00045991	0.01915892	Lcat2
ENSMUSG0C	742.542321	-0.5280692	0.14536117	-3.6328076	0.00028035	0.0341155	Phf
ENSMUSG0C	492.95726	-0.5837246	0.16720055	-3.4911646	0.00048092	0.0197035	Strc
ENSMUSG0C	195.978915	-0.8174419	0.26508472	-3.0837007	0.00204443	0.05250692	Fa2h
ENSMUSG0C	292.603675	-0.7497305	0.19512033	-3.8405957	0.00012274	0.0069407	Adra2a
ENSMUSG0C	113.432159	-1.1498427	0.32849	-3.5030873	0.00046458	0.0193073	

ENSMUSG0C 353.050462 -0.7043212 0.20881584 -3.3729301 0.00074373 0.02686834 Sh3tc1 SH3 domain and tetratricopeptide repeats 1
ENSMUSG0C 392.463221 -0.8262849 0.18870908 -4.3786177 1.19E-05 0.00113028 Mag myelin-associated glycoprotein
ENSMUSG0C 247.181247 -0.6745657 0.21908795 -3.078972 0.00207716 0.05294725 Dchs1 dachshous cadherin related 1
ENSMUSG0C 632.1005 -0.7281447 0.23042042 -3.1600702 0.00157731 0.04473245 C1qa complement component 1, q subcomponent, alpha polypeptide
ENSMUSG0C 1118.39215 -0.4811012 0.1727172 2.7926881 0.00522721 0.09862883 C1qb complement component 1, q subcomponent, beta polypeptide
ENSMUSG0C 778.825676 -0.5809374 0.18140024 -3.2025173 0.00136232 0.04060441 Trn2 tensin 2
ENSMUSG0C 1157.27311 -0.4728455 0.11543371 -4.0962509 4.20E-05 0.00299657 Apbh1 amyloid beta (A4) precursor protein-binding, family B, member 1
ENSMUSG0C 5361.32169 -0.6357571 0.1271872 -5.1806036 2.21E-07 3.63E-05 C1ca3b chloride channel accessory 3B
ENSMUSG0C 5628.39923 -0.2874463 0.08993789 -3.1960537 0.00139321 0.04111863 Pax1 paired box 1
ENSMUSG0C 108.559627 -1.3098046 0.33942342 -3.8589105 0.00011389 0.00656699 Tas2r108 taste receptor, type 2, member 108
ENSMUSG0C 388.94735 -0.8066243 0.18595163 -4.3378177 1.44E-05 0.00130511 Wee2 WEE1 homolog 2 (S. pombe)
ENSMUSG0C 3282.36634 -0.2838065 0.10049068 -2.8242068 0.00473978 0.09243113 Dennd11 DENN domain containing 11
ENSMUSG0C 573.394319 -0.5622421 0.17312498 -3.2476081 0.00116379 0.03684573 Man1c1 mannosidase, alpha, class 1C, member 1
ENSMUSG0C 1064.19559 -0.5264945 0.12511379 -4.2081257 2.57E-05 0.00203809 Ccn3 cellular communication network factor 3
ENSMUSG0C 929.458915 -0.55979 0.15998645 -3.4938984 0.00067603 0.01934153 Shank2 SH3 and multiple ankyrin repeat domains 2
ENSMUSG0C 404.262221 -0.7242177 0.1678347 -4.3150657 1.60E-05 0.00141752 Adgrl3 adhesion G protein-coupled receptor l3
ENSMUSG0C 5849.94211 -1.1020279 0.11227746 -9.8152191 6.98E-23 1.87E-19 Cdkn1c cyclin-dependent kinase inhibitor 1C (P57)
ENSMUSG0C 1170.08976 -0.8764223 0.15952087 -5.494092 3.93E-08 7.86E-06 D630003M21RIKEN cDNA D630003M21 gene
ENSMUSG0C 1813.31514 -0.3043156 0.09441839 -3.2230544 0.00126831 0.03881399 Ano10 anoctamin 10
ENSMUSG0C 459.903562 -0.5447915 0.17525628 -3.1085417 0.00188013 0.04983062 Card19 caspase recruitment domain family, member 19
ENSMUSG0C 239.705797 -0.8979068 0.2969058 -3.0242144 0.0024928 0.05980575 Itpriid1 ITPR interacting domain containing 1
ENSMUSG0C 2750.3134 -0.6452146 0.15087115 -4.276594 1.90E-05 0.0015964 Muc5ac mucin 5, subtypes A and C, tracheobronchial/gastric
ENSMUSG0C 345.30867 -0.4719604 0.15724948 -3.001348 0.00268787 0.06316318 Mtum maturin, neural progenitor differentiation regulator homolog (Xenopus)
ENSMUSG0C 1555.28829 -0.3874145 0.13001793 -2.9797009 0.0028853 0.06654533 Aox4 aldehyde oxidase 4
ENSMUSG0C 579.733895 -0.6793985 0.13263041 -5.1224943 3.02E-07 4.82E-05 Kcnh2 potassium voltage-gated channel, subfamily H (eag-related), member 2
ENSMUSG0C 516.588961 -0.4870306 0.15468402 -3.1485516 0.00164082 0.0457145 Satb2 special AT-rich sequence binding protein 2
ENSMUSG0C 6283.70584 -0.295634 0.0915302 -3.229907 0.0012383 0.03802928 Sbf2 SET binding factor 2
ENSMUSG0C 83.8432174 -1.0582866 0.33931267 -3.1189127 0.0018152 0.04877782 Hiv hemojuelin BMP co-receptor
ENSMUSG0C 160.395382 -0.7170468 0.23694748 -3.0261846 0.00247661 0.05964761 Grtp1 GH regulated TBC protein 1
ENSMUSG0C 5000.65839 -0.502155 0.14162844 -3.5455806 0.00039175 0.01692687 Rgs4 regulator of G-protein signaling 4
ENSMUSG0C 384.28006 -0.7254124 0.190034 -3.8172767 0.00013493 0.00748275 Pln phospholamban
ENSMUSG0C 755.593547 -0.3995632 0.13561407 -2.9197798 0.00350279 0.07530129 Lrrc56 leucine rich repeat containing 56
ENSMUSG0C 1378.16853 -0.5441832 0.12387426 -4.3930288 1.12E-05 0.00108137 Fsd2 fibronectin type III and SPRY domain containing 2
ENSMUSG0C 423.817502 -0.7279436 0.19291364 -3.7734171 0.00016103 0.00850692 Dgk1 diacylglycerol kinase, iota
ENSMUSG0C 323.601145 -0.7917265 0.19314055 -4.0992248 4.15E-05 0.00239878 Shank1 SH3 and multiple ankyrin repeat domains 1
ENSMUSG0C 1028.05707 -0.2689674 0.09515253 -2.826697 0.00470308 0.0919133 Mub12b multivesicular body subunit 12B
ENSMUSG0C 809.437898 -0.4672005 0.13767564 -3.393487 0.00069009 0.02535128 Sema6c sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6C
ENSMUSG0C 344.447632 -0.7299523 0.2044416 -3.5704684 0.00035634 0.01591028 Lefty1 left right determination factor 1
ENSMUSG0C 2107.24812 -0.4265751 0.10854967 -3.9297689 8.50E-05 0.00523175 Rap1gap2 RAP1 GTPase activating protein 2
ENSMUSG0C 892.531474 -0.5224985 0.16155842 -3.2341151 0.0012202 0.03780674 Slc0a1 solute carrier organic anion transporter family, member 4a1
ENSMUSG0C 565.412865 -0.9641071 0.24119447 -3.9972188 6.41E-05 0.00427593 Kik1b16 kallikrein 1-related peptidase b16
ENSMUSG0C 1516.81374 -0.3258968 0.10292088 -3.1664794 0.00154296 0.04406462 Cables2 CDK5 and Abl enzyme substrate 2
ENSMUSG0C 853.21125 -0.5876311 0.15650051 -3.7548276 0.00017346 0.00903242 Zfp503 zinc finger protein 503
ENSMUSG0C 12707.561 -0.2804176 0.08845804 -3.2785553 0.00120432 0.03744786 Abhd2 hydrolase domain similarity 2
ENSMUSG0C 567.904734 -0.4040553 0.16551959 -2.9969584 0.00277688 0.06390753 Tc36 tetratricopeptide repeat domain 36
ENSMUSG0C 537.552456 -0.8846937 0.16490857 -5.3647526 8.11E-08 1.52E-05 Alap1 adhesion junction associated protein 1
ENSMUSG0C 2210.24878 -0.2775301 0.09731182 -2.857252 0.00427326 0.0866244 Lonr1 LON peptidase N-terminal domain and ring finger 1
ENSMUSG0C 1419.06836 -0.469451 0.12318526 -3.8108868 0.00013847 0.00763026 Plekhg5 pleckstrin homology domain containing, family G (with RhoGef domain) member 5
ENSMUSG0C 2364.70017 -0.5737821 0.10640082 -5.3926473 6.94E-08 1.34E-05 Cited2 Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2
ENSMUSG0C 790.050209 -0.6806004 0.14122064 -4.8194115 1.44E-06 0.00019435 Hsp1 huntingtin interacting protein 1
ENSMUSG0C 3183.04073 -0.9711356 0.23489723 -4.1342997 3.56E-05 0.00264944 P1cb phospholipase C, beta 2
ENSMUSG0C 1560.87789 -0.5591766 0.11362454 -4.921266 8.60E-07 0.00012273 Caca2d1 calcium channel, voltage-dependent, alpha2/delta subunit 1
ENSMUSG0C 1393.42256 -0.3897684 0.13849183 -2.8143785 0.00488717 0.09434613 Rgl3 ral guanine nucleotide dissociation stimulator-like 3
ENSMUSG0C 480.004472 -1.0068242 0.1799732 -5.6216596 1.89E-08 4.07E-06 Hmxb3 H5 homeobox 3
ENSMUSG0C 1690.38659 -0.5327262 0.13455568 -3.9591511 7.52E-05 0.00481414 Fmo2 flavin containing monooxygenase 2
ENSMUSG0C 2584.14871 -0.256126 0.09087743 -2.8183675 0.00482685 0.09380578 Nsmce4a NSE4 homolog A, SMC5-SMC6 complex component
ENSMUSG0C 9546.99694 -0.3623391 0.08694023 -4.1676802 3.08E-05 0.00235011 Dgkz diacylglycerol kinase zeta
ENSMUSG0C 507.444229 -0.612057 0.19716334 -3.1043144 0.00190721 0.05031843 Cyp2s1 cytochrome P450, family 2, subfamily s, polypeptide 1
ENSMUSG0C 1078.82885 -0.5261359 0.13642693 -3.8565399 0.000115 0.00669099 Zfh2 zinc finger homeobox 2
ENSMUSG0C 518.714291 -0.457849 0.15907256 -2.8782397 0.00399901 0.08270165 Dkl1 delta like non-canonical Notch ligand 1
ENSMUSG0C 100.631699 -1.0300539 0.32805584 -3.1398736 0.00169021 0.04664276 Fwa3 forkhead box A3
ENSMUSG0C 715.723794 -0.6466841 0.15248784 -4.2408893 2.23E-05 0.00182007 Atpla3 ATPase, Na+/K+ transporting, alpha 3 polypeptide
ENSMUSG0C 311.484884 -0.8359266 0.12321174 -3.9205366 8.84E-05 0.00537928 Arhgef38 Rho guanine nucleotide exchange factor (GEF) 38
ENSMUSG0C 1199.21907 -0.3448143 0.122184846 -3.8220707 0.0018473 0.092833 Fam117b family with sequence similarity 117, member B
ENSMUSG0C 649.16872 -0.477668 0.16106947 -2.9656022 0.00302091 0.06787497 Pfkfb pyruvate kinase liver and red blood cell
ENSMUSG0C 1546.4763 -0.7638628 0.17805945 -4.2899313 1.79E-05 0.00151815 Car8 carbonic anhydrase 8
ENSMUSG0C 985.780347 -0.3850804 0.12585942 -3.0596075 0.00221627 0.05536865 Cfr cystic fibrosis transmembrane conductance regulator
ENSMUSG0C 150.440321 -1.0511734 0.3354532 -3.1335918 0.00172681 0.04683633 Cldn5 claudin 5
ENSMUSG0C 1362.55077 -0.605944 0.15397573 -3.9353217 8.31E-05 0.00516702 Entpd3 ectonucleoside triphosphate diphosphohydrolase 3
ENSMUSG0C 135.948365 -1.2502337 0.27786884 -4.4993662 6.82E-06 0.00071494 Pnpla3 patatin-like phospholipase domain containing 3
ENSMUSG0C 1334.04068 -0.5288112 0.15542436 -3.4023703 0.00066804 0.02480297 Iapp islet amyloid polypeptide
ENSMUSG0C 518.926644 -0.5053819 0.16765842 -3.0143547 0.00257527 0.06109414 Coro2b coronin, actin binding protein, 2B
ENSMUSG0C 542.124784 -0.5213307 0.17492487 -2.9803122 0.00287955 0.06650074 Tmem45b transmembrane protein 45b
ENSMUSG0C 7678.58323 -0.403823 0.12486966 -3.5078575 0.00054573 0.01886328 Rpn repeatin
ENSMUSG0C 1223.53901 -0.5183783 0.14047018 -3.6903089 0.00022398 0.0111167 Osbpl6 oxysterol binding protein-like 6
ENSMUSG0C 460.846366 -0.5028299 0.18057617 -2.7845863 0.00535961 0.09992165 Mfap4 microfilibrillar-associated protein 4
ENSMUSG0C 1532.69202 -0.8565229 0.10488814 -8.1660603 3.19E-16 3.70E-13 Ypel3 yippee like 3
ENSMUSG0C 2087.45544 -0.5502244 0.10925505 -5.0361464 4.75E-07 7.32E-05 Id1 inhibitor of DNA binding 1, HLH protein
ENSMUSG0C 749.430942 -0.427072 0.1379054 -3.0968479 0.0019559 0.05106586 Bex2 brain expressed X-linked 2
ENSMUSG0C 1773.4632 -0.3433744 0.10979138 -3.1275171 0.0017629 0.04766662 Fxo4 forkhead box O4
ENSMUSG0C 1300.60518 -0.6301048 0.13224407 -4.764711 1.89E-06 0.00024215 Eglfam EGF-like, fibronectin type III and laminin G domains
ENSMUSG0C 527.903586 -0.5213772 0.14743707 -3.5362692 0.00040582 0.0174483 Meia1 meiotic double-stranded break formation protein 4
ENSMUSG0C 226.667087 -0.9414092 0.24940705 -7.780045 0.0001568 0.00838512 Ubm10 UBK domain protein 10
ENSMUSG0C 452.895273 -1.034356 0.19438175 -5.321608 1.03E-07 1.88E-05 Tbx3 TOX high mobility group box family member 3
ENSMUSG0C 2691.86624 -0.4372585 0.15057978 -2.9038327 0.00368625 0.07818354 Mgat5b mannoside acetylglucosaminyltransferase 5, isoenzyme B
ENSMUSG0C 70.2978876 -1.0966561 0.37880646 -2.8950301 0.00379122 0.07982655 Tas2r118 taste receptor, type 2, member 118
ENSMUSG0C 856.530364 -0.3401051 0.11613294 -2.9285842 0.0034051 0.07374744 Zsr1 zinc finger (CCCH type), RNA binding motif and serine/arginine rich 1
ENSMUSG0C 55.43428 -1.2212132 0.41021599 -2.9770004 0.00291084 0.06692217 Prss53 protease, serine 53
ENSMUSG0C 1692.91015 -0.6439848 0.14247392 -4.5200188 6.18E-06 0.00065955 Hecacam2 HEPACAM family member 2
ENSMUSG0C 1383.02124 -0.3503193 0.1006372 -3.4810117 0.00049952 0.02022839 Krt84 keratin 84
ENSMUSG0C 6751.44514 -0.4077122 0.12616923 -3.2314708 0.00123155 0.03796574 Shisa2 shisa family member 2
ENSMUSG0C 719.549244 -0.4352789 0.14595541 -2.9822733 0.00286116 0.06634016 Dact1 dishevelled-binding antagonist of beta-catenin 1
ENSMUSG0C 1516.864878 -0.391533 0.12485682 -3.1358557 0.00171353 0.04683633 Faf6 fatty acid desaturase domain family, member 6
ENSMUSG0C 230.431582 -0.6852019 0.2180436 -3.1888206 0.0042854 0.04159741 AML67606 expressed sequence AML67606
ENSMUSG0C 3186.98388 -0.5708141 0.11432676 -4.9928305 5.95E-07 8.93E-05 Fncd7 fibronectin type III domain containing 7
ENSMUSG0C 3339.33653 -0.3062946 0.0988734 -3.0978461 0.00194933 0.05106586 Plekhf2 pleckstrin homology domain containing, family A member 7
ENSMUSG0C 884.724276 -0.7190245 0.16998821 -4.2298492 2.34E-05 0.00188518 Smtnl2 smoothelin-like 2
ENSMUSG0C 892.753141 -1.302015 0.15379981 -8.4656475 2.55E-17 3.41E-14 Slitrk6 SLIT and NTRK-like family, member 6
ENSMUSG0C 1835.54542 -0.3300683 0.11124747 -2.9669732 0.00300747 0.06774365 Stard5 STAR-related lipid transfer (START) domain containing 5
ENSMUSG0C 835.048359 -0.4176527 0.11848892 -3.5248251 0.00042376 0.0179975 Eidf2 EP300 interacting inhibitor of differentiation 2
ENSMUSG0C 273.875523 -0.7100265 0.23232222 -3.0562146 0.00224151 0.05583887 Gsg1l GSG1-like
ENSMUSG0C 644.614972 -0.4864277 0.15431376 -3.2170021 0.00129538 0.03943426 Slc25a23 solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 23
ENSMUSG0C 317.24843 -0.6638839 0.18320786 -3.622665 0.00029046 0.01378131 Asphd1 aspartate beta-hydroxylase domain containing 1
ENSMUSG0C 946.708349 -0.6535034 0.13701784 -4.7694772 1.85E-06 0.00023824 Camk2n1 calcium/calmodulin-dependent protein kinase I inhibitor 1
ENSMUSG0C 739.162497 -0.9922163 0.19974234 -4.9674808 6.78E-07 9.93E-05 Shd2 SH2 domain containing 7
ENSMUSG0C 1645.53995 -0.4306152 0.13798418 -3.1207578 0.00180386 0.04862332 Kctd4 potassium channel tetramerisation domain containing 4
ENSMUSG0C 303.539134 -0.9203557 0.2792446 -3.2958766 0.00098115 0.03261922 Slitrk4 SLIT and NTRK-like family, member 4
ENSMUSG0C 1772.63212 -0.429255 0.13423262 -3.1978438 0.00138459 0.04100325 Cystm1 cysteine-rich transmembrane module containing 1
ENSMUSG0C 10768.0513 -0.314282 0.08770421 -3.5834312 0.00033911 0.01541562 Cdc24a CD24a antigen
ENSMUSG0C 504.437217 -0.421977 0.14692973 -2.8719644 0.00407929 0.08376493 Cldn2 claudin 2
ENSMUSG0C 923.025058 -0.7534347 0.14220467 -5.2982417 1.17E-07 2.05E-05 Ptgfs1 prostaglandin-endoperoxide synthase 1
ENSMUSG0C 2074.00502 -0.284638 0.09522175 -2.9892124 0.00279998 0.06546202 Tgfr1 TGF-beta-induced factor homeobox 1
ENSMUSG0C 1985.61865 -0.3185563 0.10582578 -3.0102807 0.0025006 0.06183543 Gpr68 G protein-coupled receptor 68
ENSMUSG0C 371.780495 -0.6370881 0.16862073 -3.778231 0.00015795 0.00838512 Balaip3 BAI1-associated protein 3
ENSMUSG0C 116.08471 -0.8382602 0.29209958 -2.8697754 0.00410763 0.08404963 Cdkp2 CLB domain containing protein 2
ENSMUSG0C 144.272795 -0.6633908 0.23777803 -2.7899585 0.00527148 0.09891409 Ankfn1 ankyrin-repeat and fibronectin type III domain containing 1
ENSMUSG0C 300.157277 -0.7500107 0.24945436 -3.0066048 0.00264183 0.06224923 Cdb00if CD300 molecule like family member F
ENSMUSG0C 301.538826 -0.7194111 0.21099916 -3.409545 0.00065071 0.02441999 Sstr2 somatostatin receptor 2
ENSMUSG0C 1791.62613 -0.5336528 0.1548877 -3.4454173 0.00057018 0.02221145 Tenm4 teureurin transmembrane protein 4
ENSMUSG0C 337.695523 -0.5564106 0.19328283 -2.8787379 0.0039927 0.08270165 Bend7 BEN domain containing 7
ENSMUSG0C 295.025104 -0.7342826 0.23084678 -3.1808223 0.00146858 0.04233829 NA NA
ENSMUSG0C 277.751234 -0.5606089 0.1944308 -3.1358557 0.00392971 0.08165632 Nkx1-2 NK1 homeobox 2
ENSMUSG0C 393.498539 -1.3874331 0.19440877 -7.0237933 2.01E-12 1.17E-09 Pkd1l3 polycystic kidney disease 1 like 3
ENSMUSG0C 7735.20732 -0.3468379 0.08393165 -4.132385 3.59E-05 0.00266025 Zfp710 zinc finger protein 710
ENSMUSG0C 5768.44834 -0.3546546 0.09311504 -3.8087787 0.00013965 0.00761713 Bnip5 BCL2 interacting protein 5
ENSMUSG0C 1016.88595 -0.3381216 0.11836658 -2.8565631 0.00428255 0.08670779 Il23r interleukin 23 receptor
ENSMUSG0C 280.414334 -0.7240389 0.21680729 -3.33962 0.00083893 0.02939297 Ccr2 chemokine (C-C motif) receptor 2
ENSMUSG0C 167.800748 -0.7184546 0.25319245 -2.837583 0.00454565 0.09007259 Frmpd4 FERM and PDZ domain containing 4
ENSMUSG0C 882.704492 -0.386117 0.10992618 -3.5125115 0.00044389 0.01863409 Pdp1 pyruvate dehydrogenase phosphatase catalytic subunit 1
ENSMUSG0C 345.655022 -0.5080602 0.17508958 -2.9014072 0.00371491 0.07859986 Cdc42ep1 CDC42 effector protein (Rho GTPase binding) 1
ENSMUSG0C 431.715393 -0.6749437 0.15076055 -4.4769254 7.57E-06 0.00078024 Prss33 protease, serine 33
ENSMUSG0C 1065.2729 -1.2812575 0.18298647 -7.001925 2.52E-12 1.33E-09 Cyp2g1 cytochrome P450, family 2, subfamily g, polypeptide 1
ENSMUSG0C 1710.85631 -0.6876395 0.11419182 -6.0217361 1.73E-09 5.09E-07 Grem1 gremlin 2, DAN family BMP antagonist
ENSMUSG0C 57.4553854 -1.7993284 0.50053659 -3.5947989 0.00032464 0.01487631 Gm867 predicted gene 867
ENSMUSG0C 541.831217 -0.7560537 0.16275248 -4.6454208 3.39E-06 0.0003993 Ch25h cholesterol 25-hydroxylase

ENSMUSG0C 238.575359 -0.7444922 0.19154158 -3.8868436 0.00010156 0.00599457 Pcdh20 protocadherin 20
ENSMUSG0C 1142.96587 -0.500927 0.10695591 -4.6834908 2.82E-06 0.00034143 Fam171a1 family with sequence similarity 171, member A1
ENSMUSG0C 365.553122 -0.5985462 0.18252349 -3.279283 0.00104071 0.03432181 Tct24 tetraatricopeptide repeat domain 24
ENSMUSG0C 800.392609 -1.257428 0.16256217 -7.7350588 1.03E-14 1.06E-11 Rgs13 regulator of G-protein signalling 13
ENSMUSG0C 149.204964 -0.258129 0.30789227 -3.0075533 0.0002636 0.06213939 Tas2r105 taste receptor, type 2, member 105
ENSMUSG0C 486.422838 -0.4923378 0.14772308 -3.3328424 0.00085964 0.0304725 Pcdh19 protocadherin 19
ENSMUSG0C 2512.81267 -0.2859441 0.08840602 -3.2344413 0.00121881 0.03780674 Crebzf CREB/ATF bZIP transcription factor
ENSMUSG0C 649.900742 -0.487483 0.14973027 -3.2557413 0.00113097 0.03636146 Spn sialophorin
ENSMUSG0C 1319.88002 -0.3382764 0.11762482 -2.8758929 0.00402886 0.08312157 Casr calcium-sensing receptor
ENSMUSG0C 1460.10329 -0.4749254 0.16070876 -2.9551933 0.00312473 0.0694234 Igfn1 immunoglobulin-like and fibronectin type III domain containing 1
ENSMUSG0C 2783.6272 -0.4076223 0.12101607 -3.3683318 0.00075625 0.02720764 Klf13 Kruppel-like factor 13
ENSMUSG0C 184.094284 -0.7382202 0.21830073 -3.3816663 0.00072048 0.02630115 D630039A03.3 RIKEN cDNA D630039A03 gene
ENSMUSG0C 2441.01518 -1.1319888 0.3104078 -3.6467795 0.00026555 0.01284439 Cd177 CD177 antigen
ENSMUSG0C 4266.51035 -0.3308996 0.09745712 -3.3953356 0.00068945 0.02523395 Dlg2 SH2 domain containing 6
ENSMUSG0C 1355.55683 -1.2232382 0.16576479 -7.279964 1.58E-13 1.25E-10 Sh2b6
ENSMUSG0C 2961.47567 -0.5584629 0.14992544 -3.7249373 0.00019536 0.00988915 Cyp2f2 cytochrome P450, family 2, subfamily f, polypeptide 2
ENSMUSG0C 131.804834 -1.0698081 0.35002281 -3.0563952 0.00224016 0.05583887 Gm609 predicted gene 609
ENSMUSG0C 322.089422 -0.7777656 0.1894898 -4.1045248 4.05E-05 0.00293333 Nrgn neurogranin
ENSMUSG0C 2844.84761 -0.2931365 0.09672475 -3.0306252 0.00244048 0.05902233 Cbx7 chromobox 7
ENSMUSG0C 461.477352 -0.698692 0.19977572 -3.4973821 0.00046985 0.01934153 Tnfrsf6 tumor necrosis factor alpha induced protein 6
ENSMUSG0C 4415.21358 -0.3380348 0.08938028 -3.7819843 0.00015558 0.00838512 Tcf4 transcription factor 4
ENSMUSG0C 949.957882 -0.6323816 0.16982703 -3.7236803 0.00019634 0.00990974 Klfk1b26 kallikrein 1-related peptidase b26
ENSMUSG0C 1091.28342 -0.3420193 0.11147571 -3.0681058 0.0021542 0.05405064 Camk2d calcium/calmodulin-dependent protein kinase II, delta
ENSMUSG0C 389.019951 -0.4689469 0.16009473 -2.9291841 0.00339853 0.07374744 Shisa6 shisa family member 6
ENSMUSG0C 1028.6991 -0.3918579 0.12093216 -3.2403116 0.00119399 0.0372598 Ntsf4d3 5'-nucleotidase domain containing 3
ENSMUSG0C 6364.796 -0.3579164 0.1267387 -2.8479782 0.00439979 0.08796053 Spock3 sparc/osteonectin, cwcv and kazal-like domains proteoglycan 3
ENSMUSG0C 6181.10688 -0.2805052 0.10040385 -2.793769 0.00520977 0.09861739 Msi1 musashi RNA-binding protein 1
ENSMUSG0C 2450.28526 -0.5980466 0.1822645 -3.7796879 0.00015703 0.00838512 Cadm4 cell adhesion molecule 4
ENSMUSG0C 1732.11515 -0.3179213 0.1137919 -2.7938837 0.00520792 0.09861739 Arntl aryl hydrocarbon receptor nuclear translocator-like
ENSMUSG0C 3432.28488 -0.325184 0.10925521 -2.9763702 0.00291682 0.06692217 Tmem245 transmembrane protein 245
ENSMUSG0C 940.856662 -0.5247536 0.15403538 -3.4067086 0.00065751 0.02462209 Zcchc24 zinc finger, CCHC domain containing 24
ENSMUSG0C 567.006552 -0.4731016 0.15961171 -2.9640781 0.00303591 0.06812414 Tmem191c transmembrane protein 191C
ENSMUSG0C 1160.23675 -0.6126246 0.1380106 -4.4360424 9.16E-06 0.00092226 Fut2 fucosyltransferase 2
ENSMUSG0C 701.26486 -0.5453995 0.16282138 -3.3496675 0.00080909 0.0269372 Ins1 insulin receptor substrate 1
ENSMUSG0C 231.418245 -0.6647654 0.22387139 -2.8546401 0.00430856 0.08639312 Sag S-antigen, retina and pineal gland (arrestin)
ENSMUSG0C 320.380497 -0.8918059 0.21491214 -4.1496301 3.33E-05 0.0025212 Myh1 myosin, heavy polypeptide 1, skeletal muscle, adult
ENSMUSG0C 710.284258 -0.4272723 0.13161548 -3.2463734 0.00116885 0.03685519 Slit3 slit guidance ligand 3
ENSMUSG0C 1249.25772 -0.737631 0.15634029 -4.7181124 2.38E-06 0.00030037 Ptpn22 protein tyrosine phosphatase, receptor type, N polypeptide 2
ENSMUSG0C 67.946182 -2.0097516 0.43504696 -4.61962 3.84E-06 0.00044333 Tas2r102 taste receptor, type 2, member 102
ENSMUSG0C 145.177059 -1.0457102 0.30131111 -3.4705331 0.00051943 0.02074489 Gja5 gap junction protein, alpha 5
ENSMUSG0C 1105.13075 -0.6209828 0.19484967 -3.1869842 0.00143765 0.04165346 Saa2 serum amyloid A 2
ENSMUSG0C 1218.64182 -0.6243458 0.14281456 -4.3717238 1.23E-05 0.00116026 Ces5a carboxylesterase 5A
ENSMUSG0C 60.2505495 -1.4584017 0.43280072 -3.3696841 0.00072524 0.02713054 Zscan5b zinc finger and SCAN domain containing 5B
ENSMUSG0C 2291.96733 -0.5288375 0.1330256 -3.9165726 8.98E-06 0.00541169 Seef1 sezure related 5 homolog like
ENSMUSG0C 8402.8269 -0.2330648 0.0853086 -3.8481283 0.00439772 0.08796053 Spock2 sparc/osteonectin, cwcv and kazal-like domains proteoglycan 2
ENSMUSG0C 601.674195 -0.4546364 0.15399249 -2.9523286 0.00315387 0.0699597 Kcnk1 potassium voltage gated channel, Shaw-related subfamily, member 1
ENSMUSG0C 68.6609298 -1.3196761 0.43454766 -3.0368962 0.00239028 0.05829398 Ifnlr1 interferon lambda 2
ENSMUSG0C 791.708643 -0.6651408 0.18644159 -3.567556 0.00036033 0.01604696 Ntrk3 neurotrophic tyrosine kinase, receptor, type 3
ENSMUSG0C 1008.07422 -0.4198971 0.11635988 -3.6086072 0.00030785 0.01425667 Hspa2 heat shock protein 2
ENSMUSG0C 612.194119 -1.2267924 0.20440214 -6.001857 1.95E-09 5.57E-07 Alox5ap arachidonate 5-lipoxygenase activating protein
ENSMUSG0C 1278.817 -0.3809363 0.10913376 -3.4905452 0.00048204 0.0197035 Sntb1 syntrophin, basic 1
ENSMUSG0C 166.577736 -0.6473421 0.2317123 -2.7937323 0.00521036 0.09861739 Intu inturnd planar cell polarity protein
ENSMUSG0C 1489.1333 -0.3211313 0.10431112 -3.0785909 0.00207982 0.05294725 Tao3c TAO kinase 3
ENSMUSG0C 388.690155 -0.6394986 0.22017845 -2.9044559 0.00367892 0.07812223 Tmem236 transmembrane protein 236
ENSMUSG0C 2515.21344 -0.6907619 0.11880303 -5.8143454 6.09E-09 1.51E-06 Dpp6 dipeptidylpeptidase 6
ENSMUSG0C 292.841043 -1.1161491 0.25899845 -4.3094817 1.64E-05 0.0014391 Myf1 myosin, light polypeptide 1
ENSMUSG0C 5244.97798 -0.4370048 0.12023434 -3.6346087 0.0002784 0.0133549 Serpinb2 serine (or cysteine) peptidase inhibitor, clade B, member 2
ENSMUSG0C 389.102668 -0.5361666 0.18779022 -2.855136 0.00430184 0.08690017 Ap3b2 adaptor-related protein complex 3, beta 2 subunit
ENSMUSG0C 1352.29326 -0.3623648 0.12458183 -2.9086493 0.00362994 0.0773661 Shisa1 shisa like 1
ENSMUSG0C 3670.90765 -0.3036921 0.0981237 -3.0949921 0.00196818 0.05127252 Mapk3 mitogen-activated protein kinase 3
ENSMUSG0C 1810.85855 -0.4308668 0.13618342 -3.1638713 0.00155686 0.04436914 Usp31 ubiquitin specific peptidase 31
ENSMUSG0C 372.69604 -0.746671 0.19370966 -3.8548885 0.00011592 0.00661834 Sox11 SRY (sex determining region Y)-box 11
ENSMUSG0C 354.446485 -0.4840263 0.17264446 -2.803602 0.00050352 0.09659388 Mapk15 mitogen-activated protein kinase 15
ENSMUSG0C 1951.14885 -0.6875305 0.15118029 -3.6136307 3.96E-06 0.00045288 Cnif4 chitinase-like 4
ENSMUSG0C 1873.2711 -0.7080042 0.15887146 -4.4564593 8.33E-06 0.00084356 Klfk1 kallikrein 1
ENSMUSG0C 383.312539 -0.674134 0.18641106 -3.163839 0.00029875 0.01404203 Mro maestro
ENSMUSG0C 1303.5375 -0.4533094 0.16019293 -2.8297716 0.00465812 0.09144523 Fbln2 fibulin 2
ENSMUSG0C 387.358474 -0.5762512 0.20231378 -2.8483044 0.00439529 0.08796053 Krt2 keratin 2
ENSMUSG0C 973.047158 -0.3864221 0.13478056 -2.867046 0.00414323 0.08467843 Ethe1 ethylmalonic encephalopathy 1
ENSMUSG0C 916.595158 -0.4208327 0.12595334 -3.341179 0.00083423 0.02928734 Gimap8 GTPase, IMAP family member 8
ENSMUSG0C 668.577002 -0.5663852 0.1594406 -3.5523275 0.00038184 0.01662242 Zfp428 zinc finger protein 428
ENSMUSG0C 2435.53526 -0.7258508 0.15217828 -4.76974 1.84E-06 0.00023824 Selenop selenoprotein P
ENSMUSG0C 2298.01476 -0.2896583 0.10048507 -2.8840358 0.00392614 0.08165632 Phactr4 phosphatase and actin regulator 4
ENSMUSG0C 244.460498 -0.6814339 0.21455133 -3.8176076 0.00483829 0.09323224 Klfk13 kallikrein 13-related peptidase b3
ENSMUSG0C 1741.404098 -0.8051793 0.1098294 -7.3803488 1.58E-13 1.25E-10 Fxyd6 FXYD domain-containing ion transport regulator 6
ENSMUSG0C 406.840152 -1.2897226 0.20301452 -6.3528589 2.11E-10 7.67E-08 Cldn9 claudin 9
ENSMUSG0C 767.350278 -0.5150771 0.17853343 -2.8850459 0.00391357 0.08161309 Serpinb7 serine (or cysteine) peptidase inhibitor, clade B, member 7
ENSMUSG0C 277.832547 -0.7741669 0.19257714 -4.0200354 5.82E-05 0.00391217 Col4a4 collagen, type IV, alpha 4
ENSMUSG0C 727.726129 -0.8036277 0.14115821 -5.6930997 1.25E-08 2.79E-06 Tspan6 tetraspanin 6
ENSMUSG0C 143.817383 -1.3066964 0.30191249 -4.3280633 1.50E-05 0.00135719 A630073D07 RIKEN cDNA A630073D07 gene
ENSMUSG0C 2076.69251 -0.639718 0.15097966 -4.2371141 2.26E-05 0.0018347 Sptbn2 spectrin beta, non-erythrocytic 2
ENSMUSG0C 393.091138 -0.580211 0.18474618 -3.1405845 0.00168611 0.04663973 Col8a1 collagen, type VIII, alpha 1
ENSMUSG0C 2323.10853 -0.3461518 0.11869818 -2.9163825 0.00354116 0.0759387 Ustf3 upstream transcription factor family member 3
ENSMUSG0C 520.407957 -0.6746473 0.20818817 -3.2418107 0.00118773 0.03719771 Actc1 actin, alpha, cardiac muscle 1
ENSMUSG0C 5770.2668 -0.3647436 0.113329 -3.218449 0.00128886 0.03930455 Lys1 lyszyme 1
ENSMUSG0C 2318.6633 -0.2821259 0.09070492 -3.1103708 0.00186853 0.04975022 Tlnr1 talin rod domain containing 1
ENSMUSG0C 181.77581 -0.9311167 0.25585342 -3.6392585 0.00027342 0.01315231 Cited4 Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 4
ENSMUSG0C 58.7260323 -1.1571858 0.38342402 -3.0180315 0.00254422 0.06056476 Tas2r115 taste receptor, type 2, member 115
ENSMUSG0C 2771.17177 -0.3707376 0.12615509 -2.9387447 0.00329544 0.07199947 Arhgef10 Rho guanine nucleotide exchange factor (GEF) 10
ENSMUSG0C 180.151665 -0.9481883 0.26660583 -3.5559174 0.00037666 0.01647945 Ectf2 epithelial cell transforming sequence 2 oncogene-like
ENSMUSG0C 138.62818 -1.4032569 0.30633549 -4.5807845 4.63E-06 0.00051707 Gm4952 predicted gene 4952
ENSMUSG0C 220.984746 -0.8482669 0.28827105 -2.9426013 0.00325467 0.07146737 Nanos1 nanos ZHC-type zinc finger 1
ENSMUSG0C 743.778827 -0.4640129 0.11414807 -3.148959 0.00142771 0.04159741 Gpr27 G protein-coupled receptor 27
ENSMUSG0C 216.09469 -0.981893 0.24775742 -3.9631234 7.40E-05 0.00478863 Muc9 mucin like 3
ENSMUSG0C 386.757079 -0.8193627 0.20584653 -3.9804545 6.88E-05 0.00451973 Klfh40 kelch-like 40
ENSMUSG0C 1270.86254 -0.4990652 0.17286118 -2.8870866 0.00388827 0.08118282 Adh1 alcohol dehydrogenase 1 (class I)
ENSMUSG0C 534.283257 -0.76022 0.16920851 -4.4928 7.03E-06 0.00072858 Ceamc1 carcinoembryonic antigen-related cell adhesion molecule 1
ENSMUSG0C 609.785454 -0.9225177 0.23498317 -3.9258883 8.64E-05 0.0052981 Fat3 FAT atypical cadherin 3
ENSMUSG0C 483.225389 -0.5657433 0.16410379 -3.4474722 0.00056586 0.02205989 Mcdas multiciliate differentiation and DNA synthesis associated cell cycle protein
ENSMUSG0C 281.331287 -0.7959101 0.20838981 -3.819333 0.00013381 0.00746823 Malr1 MAM and LDL receptor class A domain containing 1
ENSMUSG0C 4830.86764 -0.3928317 0.11945358 -3.2885722 0.00106097 0.03333529 Nrpb2 nuclear receptor binding protein 2
ENSMUSG0C 416.640179 -0.5741166 0.20070146 -2.8605499 0.00422907 0.08582842 Erich3 glutamate rich 3
ENSMUSG0C 4722.09477 -0.4723246 0.12519899 -3.7725943 0.00016156 0.00850692 Ctdp2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 2
ENSMUSG0C 573.75923 -0.4831106 0.16522404 -2.9239726 0.00345595 0.07457061 Clap74 cilia and flagella associated protein 74
ENSMUSG0C 463.975042 -0.454232 0.14199375 -3.1989575 0.00137925 0.04098458 Fam174b family with sequence similarity 174, member B
ENSMUSG0C 232.868384 -0.8819894 0.21662993 -4.0714105 4.67E-05 0.00325235 Ccr5 chemokine (C-C motif) receptor 5
ENSMUSG0C 478.584214 -0.5348545 0.16813284 -3.1811422 0.00146696 0.04233829 Achr4 atypical chemokine receptor 4
ENSMUSG0C 256.687567 -0.8844859 0.20020901 -4.4178124 9.97E-06 0.00098618 Nhs1d NfH-like 2
ENSMUSG0C 484.895691 -0.474719 0.15455068 -3.0716073 0.0021291 0.05380836 Aox2 aldehyde oxidase 2
ENSMUSG0C 130.170131 -0.84544 0.28555366 -2.9607043 0.00306936 0.06878616 NA
ENSMUSG0C 983.478209 -0.5289661 0.12788794 -4.1361688 3.53E-05 0.00263925 Crocc2 ciliary rootlet coiled-coil, rootletin family member 2
ENSMUSG0C 179.872326 -0.7403369 0.24534453 -3.5888384 0.00033215 0.0151806 E030031319 RIKEN cDNA E030031319 gene
ENSMUSG0C 359.566623 -0.4973306 0.1749823 -3.8421763 0.00040867 0.08916792 2610035017 RIKEN cDNA 2610035017 gene
ENSMUSG0C 209.74948 -0.6598937 0.21647967 -3.0482941 0.00230145 0.05708701 E130317F20 RIKEN cDNA E130317F20 gene
ENSMUSG0C 331.146595 -0.5558241 0.17695602 -3.1410297 0.00168355 0.04663973 NA
ENSMUSG0C 1608.11648 -0.410752 0.11848071 -3.4668263 0.00052664 0.02093703 Miat myocardial infarction associated transcript (non-protein coding)
ENSMUSG0C 454.338783 -0.5586114 0.19914667 -2.8502521 0.00503127 0.09627409 Rassf10 Ras association (RalGDS/AF-6) domain family (N-terminal) member 10
ENSMUSG0C 473.377206 -0.8705429 0.20352295 -4.2773699 1.89E-05 0.0015964 Rgs21 regulator of G-protein signalling 21
ENSMUSG0C 20197.9671 -0.2070656 0.07117522 -2.9092378 0.00362311 0.07731525 Kctd12 potassium channel tetramerisation domain containing 12
ENSMUSG0C 304.004697 -1.3890239 0.25580823 -5.4299422 5.64E-08 1.10E-05 G030407003 RIKEN cDNA G030407003 gene
ENSMUSG0C 232.546198 -1.1845056 0.253565 -4.6714082 2.99E-06 0.00033924 Ovol3 ovo like zinc finger 3
ENSMUSG0C 598.63191 -0.5972855 0.20440403 -2.9220786 0.00347704 0.07493274 Flg filaggrin
ENSMUSG0C 82.768037 -1.2572802 0.32099393 -3.9168349 8.97E-05 0.00541169 NA
ENSMUSG0C 111.395164 -1.1815162 0.28697722 -4.1171078 3.84E-05 0.00281882 Gm19026 calmodulin regulated spectrin-associated protein 1 pseudogene
ENSMUSG0C 150.376898 -1.2736041 0.3201014 -3.9787521 6.93E-05 0.0045351 NA
ENSMUSG0C 73.2274389 -1.4934689 0.36303196 -4.1138772 3.89E-05 0.00284658 Tas2r142-ps1 taste receptor, type 2, member 142, pseudogene 5
ENSMUSG0C 266.052967 -0.7813204 0.24729325 -3.1594894 0.00158046 0.04474882 5430431A17 RIKEN cDNA 5430431A17 gene
ENSMUSG0C 108.312259 -1.0009982 0.32477509 -3.0821272 0.00205527 0.052694 NA
ENSMUSG0C 188.718925 -0.778548 0.24825908 -3.1360302 0.00171252 0.04683633 Gm6249 predicted gene 6249
ENSMUSG0C 102.93311 -1.0871438 0.33227791 -3.2717907 0.00106869 0.03504528 Rnf223 ring finger 223
ENSMUSG0C 530.250107 -0.5490524 0.16532942 -3.32096 0.00089708 0.0308105 Gm8714 interferon inducible GTPase 1 pseudogene

Table 4. Upregulated in cKO mTEC

row	baseMean	log2FoldChar	lfcSE	stat	pvalue	padj	symbol	geneName
ENSMUSG00	248.784604	0.67900503	0.20630747	3.29122853	0.00099751	0.03308498	Wnt9a	wingless-type MMTV integration site family, member 9A
ENSMUSG00	37648.8113	0.37322502	0.09128367	4.08862839	4.34E-05	0.00305913	Ccnd2	cyclin D2
ENSMUSG00	1270.68134	0.46379886	0.11927174	3.88858956	0.00010083	0.00597186	Drp2	dystrophin related protein 2
ENSMUSG00	168.652322	0.86951595	0.25943969	3.35151477	0.00080371	0.02856114	Tssk3	testis-specific serine kinase 3
ENSMUSG00	28101.9167	0.31325586	0.06767648	4.62872534	3.68E-06	0.00042711	Icosl	icos ligand
ENSMUSG00	6525.79171	0.29975184	0.07394261	4.05384452	5.04E-05	0.00344045	Slc7a7	solute carrier family 7 (cationic amino acid transporter, y+ system), member 7
ENSMUSG00	3181.78051	0.44558609	0.10220187	4.36255126	1.29E-05	0.00119707	S100a3	S100 calcium binding protein A3
ENSMUSG00	759.24386	0.39979357	0.14135155	2.82836355	0.00467867	0.09164185	B9d1	B9 protein domain 1
ENSMUSG00	6821.14491	6.23274608	0.10328413	60.3456295	0	0.34132		solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2
ENSMUSG00	5586.86937	0.50023527	0.08920551	5.60767255	2.05E-08	4.35E-06	Mcm3ap	minichromosome maintenance complex component 3 associated protein
ENSMUSG00	68.0594647	1.26117411	0.41411286	3.04548405	0.00232306	0.05720062	Nkx2-1	NK2 homeobox 1
ENSMUSG00	1256.20788	0.43805327	0.14740673	2.97173178	0.00296125	0.06715766	Gstt1	glutathione S-transferase, theta 1
ENSMUSG00	8628.79468	0.32945996	0.06902237	4.77323433	1.81E-06	0.00023735	Aif1l	allograft inflammatory factor 1-like
ENSMUSG00	4202.96284	0.45430086	0.08438572	5.38362266	7.30E-08	1.40E-05	Gria3	glutamate receptor, ionotropic, AMPA3 (alpha 3)
ENSMUSG00	2070.03893	0.24534545	0.08624793	2.84465324	0.00444598	0.08868023	Naa20	N(alpha)-acetyltransferase 20, NatB catalytic subunit
ENSMUSG00	4789.52907	0.45723785	0.10110626	4.5223498	6.12E-06	0.00065736	Bax	BCL2-associated X protein
ENSMUSG00	2259.22798	0.40352225	0.11421404	3.53303747	0.00041081	0.01753311	Brinp2	bone morphogenic protein/retnoic acid inducible neural-specific 2
ENSMUSG00	5708.19989	0.27345084	0.08640678	3.1531189	0.00161536	0.04543084	Eno2	enolase 2, gamma neuronal
ENSMUSG00	8141.24847	0.30635761	0.10971703	2.79225205	0.00523426	0.09885478	Grap	GRB2-related adaptor protein
ENSMUSG00	8180.70333	0.4557348	0.11314764	4.02778895	5.63E-05	0.00380007	Cd44	CD44 antigen
ENSMUSG00	1393.58794	1.00276937	0.10198414	9.83260085	8.15E-23	1.77E-19	Spz25	SPC25, NDC80 kinetochore complex component, homolog (S. cerevisiae)
ENSMUSG00	1200.4561	0.4632209	0.13979122	3.1366233	0.00092083	0.03143867	Fblim1	filamin binding LIM protein 1
ENSMUSG00	7233.36887	0.29451595	0.08225069	3.58114866	0.00034209	0.01541562	Susd2	sushi domain containing 2
ENSMUSG00	799.609983	0.4941355	0.15392471	3.21024151	0.00132623	0.03990957	Adams4	a disintegrin-like and metallopeptidase (repolysin type) with thrombospondin type 1 motif, 4
ENSMUSG00	3446.41307	0.35661008	0.08923607	3.99625482	6.44E-05	0.00427698	Epha2	Eph receptor A2
ENSMUSG00	1276.22422	0.31990455	0.11479053	2.78685484	0.00532223	0.09954459	Pdk1	pyruvate dehydrogenase kinase, isoenzyme 1
ENSMUSG00	3982.5527	0.5565483	0.09895486	5.91749433	3.27E-09	8.89E-07	Sulf2	sulfatase 2
ENSMUSG00	8602.17859	0.21900012	0.07191707	3.04517588	0.00232544	0.05720062	Clc1	chloride intracellular channel 1
ENSMUSG00	1705.12567	0.89731198	0.10548876	8.50623271	1.80E-17	2.61E-14	Cpt1c	carnitine palmitoyltransferase 1c
ENSMUSG00	190.281119	0.99556241	0.25823846	3.85520582	0.00011563	0.00661834	Hmgcl1	3-hydroxymethyl-3-methylglutaryl-Coenzyme A lyase-like 1
ENSMUSG00	1974.80327	0.57257203	0.10810139	5.29662054	1.18E-07	2.05E-05	Fbxw9	F-box and WD-40 domain protein 9
ENSMUSG00	17862.4902	0.27648486	0.08554378	3.232086	0.0012289	0.03796574	Rps18	ribosomal protein S18
ENSMUSG00	19377.2333	0.2954743	0.07870119	3.75438137	0.00017377	0.00903242	Lpo	lactoperoxidase
ENSMUSG00	1231.80302	0.35409432	0.11462571	3.08913525	0.0020074	0.05178498	Met	met proto-oncogene
ENSMUSG00	29381.7823	0.23719663	0.08145394	2.91203388	0.00359084	0.07681479	Apobec3	apolipoprotein B mRNA editing enzyme, catalytic polypeptide 3
ENSMUSG00	6152.59393	0.27431795	0.09489377	2.89078984	0.00384275	0.08061904	Nedd8	neural precursor cell expressed, developmentally down-regulated gene 8
ENSMUSG00	3756.28498	0.24116893	0.07792871	3.09473802	0.00196987	0.05127252	Vac14	Vac14 homolog (S. cerevisiae)
ENSMUSG00	1650.91281	0.54360792	0.13826571	3.93161779	8.44E-05	0.00521008	Gli32	GLIS family zinc finger 2
ENSMUSG00	2070.11168	0.30275965	0.10439174	2.90022609	0.00372894	0.07861012	Srp19	signal recognition particle 19
ENSMUSG00	4237.25586	0.28204991	0.09087886	3.10358095	0.00191194	0.05036702	Alidh1a3	aldehyde dehydrogenase family 1, subfamily A3
ENSMUSG00	11663.0822	0.26593811	0.07789606	3.41401233	0.00064014	0.02414943	Gadd45b	growth arrest and DNA-damage-inducible 45 beta
ENSMUSG00	7417.09836	0.23983872	0.06885598	3.48319357	0.00049547	0.02014715	Psma2	proteasome subunit alpha 2
ENSMUSG00	401.968396	0.61584446	0.17786455	3.46243508	0.00053531	0.02123319	Tenm1	teneurin transmembrane protein 1
ENSMUSG00	21995.9229	0.35064047	0.11417823	3.07067692	0.00213574	0.05382006	Ctsz	cathepsin Z
ENSMUSG00	3567.75927	0.27926189	0.08604661	3.24547236	0.00117256	0.03685519	Glod4	glyoxalase domain containing 4
ENSMUSG00	7966.53088	0.25143095	0.08097893	3.10489358	0.00190347	0.05029622	Psmb6	proteasome (prosome, macropain) subunit, beta type 6
ENSMUSG00	32125.6407	0.24439189	0.08262305	2.95791417	0.00309728	0.06896803	Pfn1	profilin 1
ENSMUSG00	860.493321	0.33553249	0.11999699	2.79617433	0.00517115	0.09841009	Trpv2	transient receptor potential cation channel, subfamily V, member 2
ENSMUSG00	8861.69104	0.31695925	0.10494741	3.02017207	0.00252631	0.06026117	Ikzf1	IKAROS family zinc finger 1
ENSMUSG00	31318.2372	0.39146131	0.11207261	3.49292417	0.00047776	0.01962093	Myh11	myosin, heavy polypeptide 11, smooth muscle
ENSMUSG00	2024.61352	0.35019286	0.12386939	2.82711366	0.00469697	0.09189692	Now1	NADPH oxidase organizer 1
ENSMUSG00	5233.51448	0.26485024	0.09381166	2.83221243	0.00475451	0.0926065	Rgs17	regulator of G-protein signaling 17
ENSMUSG00	15857.8806	0.24784495	0.08502801	2.91486236	0.00355845	0.0762157	Crybg1	crystallin beta-gamma domain containing 1
ENSMUSG00	1518.65109	0.35899547	0.10853164	3.30774931	0.00094049	0.03186137	Kitl	kit ligand
ENSMUSG00	4797.2474	0.69366614	0.105724	6.5611038	5.34E-11	2.33E-08	Igf1	insulin-like growth factor 1
ENSMUSG00	3689.11368	0.30330172	0.08781189	3.45399383	0.00055235	0.02176034	Snrdp3	small nuclear ribonucleoprotein D3
ENSMUSG00	7509.5214	0.31481654	0.0732951	4.29519204	1.75E-05	0.00148985	Mdm2	transformed mouse 3T3 cell double minute 2
ENSMUSG00	2607.17348	0.32545833	0.09084386	3.58261236	0.00034018	0.01541562	Cdc34	cell division cycle 34
ENSMUSG00	12221.6129	0.9206719	0.09189051	10.019227	1.25E-23	3.12E-20	Cnrg1	cyclin G1
ENSMUSG00	1863.82878	0.30193731	0.10517785	2.87073091	0.00409524	0.0838946	Nudcd2	NudC domain containing 2
ENSMUSG00	31757.3783	0.19885219	0.06344895	3.13405011	0.00172411	0.04683633	Tnfp1	TNFAIP3 interacting protein 1
ENSMUSG00	2278.80106	0.3163877	0.10154824	3.11563942	0.00183547	0.04907061	Supt4a	SPT4A, DSIF elongation factor subunit
ENSMUSG00	9180.85612	0.27331463	0.07978621	3.42558716	0.00061347	0.02347778	Nup85	nucleoporin 85
ENSMUSG00	24461.6324	0.32562725	0.08985984	3.62423027	0.00028982	0.01378131	Igtb4	integrin beta 4
ENSMUSG00	13602.107	0.41110211	0.08748247	4.69925113	2.61E-06	0.00032247	Nos2	nitric oxide synthase 2, inducible
ENSMUSG00	926.731864	0.42112599	0.14981117	2.81104528	0.00493808	0.09480358	Krt24	keratin 24
ENSMUSG00	4165.80074	0.29121886	0.09587818	3.03738416	0.00238641	0.05829398	Gtf2a1	general transcription factor II A, 1
ENSMUSG00	10248.9161	0.30181698	0.09020181	3.34601904	0.00081981	0.02889739	Psmg6	proteasome subunit alpha 6
ENSMUSG00	44861.262	0.22967759	0.07759499	2.95995377	0.00307685	0.06886533	Nfkbia	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, alpha
ENSMUSG00	7327.22967	0.2175508	0.07299282	2.98044128	0.00287833	0.06650074	Psmc1	protease (prosome, macropain) 26S subunit, ATPase 1
ENSMUSG00	1913.96515	1.02700917	0.10108482	10.1598751	2.99E-24	8.69E-21	Dglucy	D-glutamate cyclase
ENSMUSG00	1317.94337	0.48335549	0.115077	4.2002789	2.67E-05	0.00209102	Dcaf4	DBF1 and CUL4 associated factor 4
ENSMUSG00	2223.55738	0.36976599	0.10460402	3.53491178	0.00040791	0.01745982	Eci2	enoyl-Coenzyme A delta isomerase 2
ENSMUSG00	6597.92332	0.27722213	0.07739544	3.58189252	0.00034111	0.01541562	Syk	spleen tyrosine kinase
ENSMUSG00	678.516406	0.66081715	0.14172221	4.66276355	3.12E-06	0.00036957	Slc25a48	solute carrier family 25, member 48
ENSMUSG00	1646.07261	0.61119533	0.11525176	5.30313251	1.14E-07	2.02E-05	Polk	polymerase (DNA directed), kappa
ENSMUSG00	8553.7073	0.46655983	0.11910238	3.9173005	8.95E-05	0.00541169	F2r1	coagulation factor II (thrombin) receptor-like 1
ENSMUSG00	6980.28347	0.68802894	0.09895343	6.95305821	3.57E-12	1.78E-09	Grhbp	corticotropin releasing hormone binding protein
ENSMUSG00	2746.99886	0.52495141	0.09209022	5.70040371	1.20E-08	2.76E-06	Plau	plasminogen activator, urokinase
ENSMUSG00	4099.35866	0.30278566	0.07377729	4.10404967	4.06E-05	0.00293333	Tdh	L-threonine dehydrogenase
ENSMUSG00	39118.2084	0.39111688	0.06435437	6.07754936	1.22E-09	3.79E-07	Clu	clustering
ENSMUSG00	3684.90648	0.41176595	0.08731914	4.71564341	2.41E-06	0.00030184	Tnfrsf10b	tumor necrosis factor receptor superfamily, member 10b
ENSMUSG00	6862.6406	0.32903587	0.08163339	4.03065306	5.56E-05	0.00376867	Bmp1	bone morphogenetic protein 1
ENSMUSG00	23163.117	0.25005467	0.07940273	3.14919487	0.00163721	0.04568707	Ankrd33b	ankyrin repeat domain 33B
ENSMUSG00	8019.76473	0.39176872	0.09226556	4.24609913	2.18E-05	0.00179514	Rnf19a	ring finger protein 19A
ENSMUSG00	4603.82956	0.37998027	0.11104324	3.42191269	0.00062182	0.02369322	Has2	hyaluronan synthase 2
ENSMUSG00	1361.11547	0.68364845	0.11930219	5.73039299	1.00E-08	2.36E-06	Gse1	G two S phase expressed protein 1
ENSMUSG00	5194.64713	0.29421616	0.08615657	3.41490113	0.00063805	0.02414943	Slc25a17	solute carrier family 25 (mitochondrial carrier, peroxisomal membrane protein), member 17
ENSMUSG00	11907.6769	0.34669975	0.0805485	4.3042357	1.68E-05	0.00144677	C1qtnf6	C1q and tumor necrosis factor related protein 6
ENSMUSG00	3093.61202	0.31752847	0.08521761	3.72608979	0.00019447	0.00988915	Nubp1	nucleotide binding protein 1
ENSMUSG00	808.797589	0.5914141	0.13852761	4.26928688	1.96E-05	0.00164167	Gpt	glutamic pyruvic transaminase, soluble
ENSMUSG00	7115.20612	0.22758995	0.07306861	3.11474316	0.00184105	0.04909376	Gsdmd	gasdermin D
ENSMUSG00	1112.94867	0.53344817	0.17019344	3.1343638	0.00172227	0.04683633	Ly6i	lymphocyte antigen 6 complex, locus I
ENSMUSG00	1753.40056	0.30359369	0.10681307	2.84228977	0.00447908	0.08916792	Arf6	ADP-ribosylation factor-like 6
ENSMUSG00	3926.58276	0.25411825	0.09084339	2.79732225	0.00515281	0.09816838	Klhl22	kelch-like 22
ENSMUSG00	3369.92003	0.30331339	0.10541914	2.87721378	0.00401204			

ENSMUSG00	1721.51865	0.34845007	0.1029791	3.38369716	0.00071517	0.02616224	Rev1	REV1, DNA directed polymerase
ENSMUSG00	12559.3505	0.27251296	0.0776004	3.5117467	0.00044517	0.01863409	Ogfr1	opioid growth factor receptor-like 1
ENSMUSG00	3422.30728	0.30466338	0.07881205	3.86569565	0.00011077	0.00642963	Wnt10a	wingless-type MMTV integration site family, member 10A
ENSMUSG00	720.539296	0.76957393	0.12707559	6.05603247	1.40E-09	4.26E-07	Pldc4	phospholipase C, delta 4
ENSMUSG00	15095.1561	0.25944001	0.08190871	3.04661127	0.00231437	0.05720062	Itm2c	integral membrane protein 2C
ENSMUSG00	2868.60314	0.89495121	0.13688882	6.53779612	6.24E-11	2.64E-08	Serpine2	serine (or cysteine) peptidase inhibitor, clade E, member 2
ENSMUSG00	3766.40794	0.23484766	0.07904995	2.97087669	0.00296951	0.06724067	Sclly	selenocysteine lyase
ENSMUSG00	3103.75023	0.2749238	0.08577305	3.2052467	0.00134947	0.04037505	Smyd2	SET and MYND domain containing 2
ENSMUSG00	2108.17098	0.40074759	0.10830222	3.70027116	0.00021537	0.01077651	Cr2	complement receptor 2
ENSMUSG00	28026.0071	0.4561416	0.08003573	5.69922429	1.20E-08	2.76E-06	Vim	vimentin
ENSMUSG00	8319.63946	0.31652409	0.0799791	3.95758511	7.57E-05	0.00484692	Psmb7	proteasome (prosome, macropain) subunit, beta type 7
ENSMUSG00	6038.41377	0.58453922	0.09080792	6.43709539	1.22E-10	4.93E-08	Il2ra	interleukin 2 receptor, alpha chain
ENSMUSG00	1141.39305	0.66163337	0.11535642	5.73555749	9.72E-09	2.32E-06	Akl	adenylate kinase 1
ENSMUSG00	159.25188	0.83237783	0.28000292	2.9727487	0.00295146	0.06715766	1700007K13	RIKEN cDNA 1700007K13 gene
ENSMUSG00	5987.74093	0.55375239	0.08118228	6.82109938	9.03E-12	4.37E-09	Stk39	serine/threonine kinase 39
ENSMUSG00	2209.12323	0.69043958	0.09620601	7.17667811	7.14E-13	4.78E-10	Cers6	ceramide synthase 6
ENSMUSG00	1599.84638	3.40842526	0.12017733	28.3616314	6.02E-177	5.24E-173	Abcb11	ATP-binding cassette, sub-family B (MDR/TAP), member 11
ENSMUSG00	35950.4428	0.2494842	0.07329122	3.40401208	0.00066404	0.02475995	Cd82	CD82 antigen
ENSMUSG00	521.087972	0.59118627	0.17493703	3.37942331	0.00072638	0.02646123	F2	coagulation factor II
ENSMUSG00	4231.63125	0.33419867	0.08619796	3.87710672	0.00010571	0.0061975	Pdrg1	p53 and DNA damage regulated 1
ENSMUSG00	490.761231	0.4640318	0.1635006	2.83975598	0.00451481	0.08974464	Col9a3	collagen, type IX, alpha 3
ENSMUSG00	1868.21516	0.26692696	0.09324443	2.86265862	0.00420103	0.08555851	Armc1	armadillo repeat containing 1
ENSMUSG00	3177.87633	0.65568812	0.0934907	7.01340497	2.33E-12	1.27E-09	Zmat3	zinc finger matrix type 3
ENSMUSG00	118.676606	0.75948632	0.26540439	2.86161927	0.00421483	0.08563922	1810062G17	RIKEN cDNA 1810062G17 gene
ENSMUSG00	6689.25067	0.39244897	0.11534486	4.00239666	0.00066798	0.02480297	Slc7a11	solute carrier family 7 (cationic amino acid transporter, y+ system), member 11
ENSMUSG00	133.22768	1.17671948	0.25678928	4.58243231	4.60E-06	0.00051632	Sohl2	spermatogenesis and oogenesis specific basic helix-loop-helix 2
ENSMUSG00	5153.3573	0.24821592	0.08577434	2.8938249	0.0038058	0.07996572	Etfhd	electron transferring flavoprotein, dehydrogenase
ENSMUSG00	191.668214	0.90253022	0.25995036	3.47193295	0.00051673	0.02068446	Hsd3b1	hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 1
ENSMUSG00	3951.04196	0.23932718	0.08284159	2.88897366	0.00386501	0.08097129	Gba	glucosidase, beta, acid
ENSMUSG00	11853.6282	0.2619279	0.08118151	3.22644755	0.00125337	0.03842424	Lmna	lamin A
ENSMUSG00	1020.52225	0.37393437	0.13005761	2.87514408	0.00403843	0.08322037	Gatb	glutamyl-tRNA(Gln) amidotransferase, subunit B
ENSMUSG00	1253.0635	0.37046046	0.12310532	3.00929683	0.00261853	0.06186769	Nudt17	nudix (nucleoside diphosphate linked moiety X)-type motif 17
ENSMUSG00	6222.20922	0.39149491	0.09815992	3.98833751	6.65E-05	0.00440542	Trp53lnp1	transformation related protein 53 inducible nuclear protein 1
ENSMUSG00	531.874068	0.49076788	0.14255377	3.44268603	0.00057597	0.02235329	Smm8	small integral membrane protein 8
ENSMUSG00	17398.4989	0.25941267	0.07515279	3.45180342	0.00055685	0.02183893	Bspsy	B-box and SPRY domain containing
ENSMUSG00	3900.73834	0.26262729	0.08962725	2.93021702	0.00338725	0.07372781	B4gal1	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 1
ENSMUSG00	22575.8251	0.24655695	0.07670737	3.21425353	0.00130784	0.03967499	Tpm2	tropomyosin 2, beta
ENSMUSG00	4958.23015	0.32376243	0.10309733	3.14035724	0.00168742	0.04663973	Glipr2	GLI pathogenesis-related 2
ENSMUSG00	4243.25979	0.49627056	0.12125275	4.09286018	4.26E-05	0.00302833	Ttc39a	tetratricopeptide repeat domain 39A
ENSMUSG00	469.491661	0.55158965	0.15007089	3.67552732	0.00023736	0.01164261	Cyp2j13	cytochrome P450, family 2, subfamily j, polypeptide 13
ENSMUSG00	6303.33578	0.31908377	0.08861932	3.60061173	0.00031747	0.01462459	Tnfrsf8	tumor necrosis factor receptor superfamily, member 8
ENSMUSG00	2648.567	0.33723107	0.10074274	3.34744792	0.00081559	0.02880715	Tinag1	tubulointerstitial nephritis antigen-like 1
ENSMUSG00	5761.26429	0.37731354	0.08056643	4.68326003	2.82E-06	0.00034143	Sesn2	sestrin 2
ENSMUSG00	8431.90233	0.22210022	0.07297824	3.04337595	0.0023394	0.05737458	Park7	Parkinson disease (autosomal recessive, early onset) 7
ENSMUSG00	831.699961	0.74198456	0.13328114	5.56706362	2.59E-08	5.37E-06	Abcb1b	ATP-binding cassette, sub-family B (MDR/TAP), member 1B
ENSMUSG00	1775.11974	0.40347731	0.11180358	3.68088054	0.00030761	0.01425667	Lzic	leucine zipper and CTNNBIP1 domain containing
ENSMUSG00	9662.76865	0.56363702	0.07438212	7.57758735	3.52E-14	3.23E-11	Plb1	phospholipase B1
ENSMUSG00	1156.42165	0.43371602	0.11795279	3.67703063	0.00023596	0.01160693	Anxa3	annexin A3
ENSMUSG00	7998.29663	0.26120471	0.06968864	3.74816774	0.00017813	0.00923154	Arcp1b	actin related protein 2/3 complex, subunit 1B
ENSMUSG00	4872.06177	0.47306456	0.08702277	5.43610114	5.45E-08	1.08E-05	Exoc4	exocyst complex component 4
ENSMUSG00	1713.72658	0.30741449	0.10328571	2.97635057	0.00291701	0.06692217	Mrp19	mitochondrial ribosomal protein L19
ENSMUSG00	4290.70503	0.38842618	0.08502268	4.56850092	4.91E-06	0.00054482	Tmem43	transmembrane protein 43
ENSMUSG00	15669.8123	0.34199815	0.0824492	4.14798617	3.35E-05	0.00252837	Usp18	ubiquitin specific peptidase 18
ENSMUSG00	16052.9843	0.26340985	0.07205302	3.65577829	0.0002564	0.01249699	Aebp2	AE binding protein 2
ENSMUSG00	169.385414	1.06783509	0.2949086	3.62090182	0.00029358	0.0138915	Slc7a10	solute carrier family 7 (cationic amino acid transporter, y+ system), member 10
ENSMUSG00	551.336753	0.6115159	0.18687059	3.2724031	0.00106637	0.03503542	Ddlas	DNA damage-induced apoptosis suppressor
ENSMUSG00	229.525402	0.7611131	0.22671411	3.35714133	0.00078753	0.02810089	Art2b	ADP-ribosyltransferase 2b
ENSMUSG00	1311.80569	0.50613575	0.12856232	3.93689032	8.25E-05	0.00516702	Il21r	interleukin 21 receptor
ENSMUSG00	85.6211023	0.95605203	0.34002816	2.8116849	0.00492828	0.09473669	Zfp300	zinc finger protein 300
ENSMUSG00	158.536937	0.68793964	0.23959853	2.8712181	0.00408893	0.08386406	Rab33a	RAB33A, member RAS oncogene family
ENSMUSG00	3321.17926	0.32554335	0.09772803	3.33111558	0.00086499	0.0300639	Agpat5	1-acylglycerol-3-phosphate O-acyltransferase 5 (lyposophosphatidic acid acyltransferase, epsilon)
ENSMUSG00	2764.59517	0.35478725	0.08993892	3.94475787	7.99E-05	0.00503972	Plpbb	pyridoxal phosphate binding protein
ENSMUSG00	1849.65581	0.41883293	0.11083343	3.77894028	0.0001575	0.00838512	Il15	interleukin 15
ENSMUSG00	5765.83544	0.44211353	0.13853988	3.19123663	0.00141665	0.04159741	Ccl22	chemokine (C-C motif) ligand 22
ENSMUSG00	6565.96341	0.44451061	0.07543527	5.89261007	3.80E-09	1.02E-06	Ces2g	carboxylesterase 2G
ENSMUSG00	5110.8953	0.25576335	0.07879911	3.24576439	0.00117136	0.03685519	Cfdp1	craniofacial development protein 1
ENSMUSG00	1678.63585	0.47662822	0.11249209	4.23699339	2.27E-05	0.0018347	Clmp	CXADR-like membrane protein
ENSMUSG00	2045.79741	0.45913958	0.10433688	4.40054916	1.08E-05	0.0010504	Il10ra	interleukin 10 receptor, alpha
ENSMUSG00	2331.11271	0.10995645	0.24702526	4.2099194	2.55E-05	0.00203307	Mcam	melanoma cell adhesion molecule
ENSMUSG00	1517.07091	0.31369512	0.10349293	3.03107776	0.00243682	0.0590159	Tmed1	transmembrane p24 trafficking protein 1
ENSMUSG00	5619.82316	0.2264926	0.08053776	2.81225358	0.00491957	0.09473669	Cgnl1	cingulin-like 1
ENSMUSG00	1135.39514	0.30655298	0.1030798	2.97367843	0.00294253	0.06715766	Lca5	Leber congenital amaurosis 5 (human)
ENSMUSG00	5573.44396	0.57422751	0.09060279	3.63785705	2.33E-10	8.27E-08	Sh3bgrl2	SH3 domain binding glutamic acid-rich protein like 2
ENSMUSG00	11334.0234	0.24671733	0.07700681	3.20833792	0.00135609	0.04050353	Tspan3	tetraspanin 3
ENSMUSG00	13310.805	0.42598719	0.09703671	4.38995919	1.13E-05	0.0010847	Col12a1	collagen, type XII, alpha 1
ENSMUSG00	11954.6704	0.2253433	0.06904483	3.26372469	0.00109958	0.03572198	Stom1	stomatatin-like 1
ENSMUSG00	523.83657	0.55736651	0.16759768	3.32562193	0.00088222	0.03043526	Gqas	cyclic GMP-AMP synthase
ENSMUSG00	3898.78936	0.29308114	0.08518088	3.44069155	0.00058023	0.02245231	Plscr1	phospholipid scramblase 1
ENSMUSG00	6032.18075	0.28575722	0.07028239	4.06584409	4.79E-05	0.00329404	Mras	muscle and microspikes RAS
ENSMUSG00	33824.7433	0.2575155	0.07898562	3.26028341	0.00111301	0.03595702	Rpsa	ribosomal protein SA
ENSMUSG00	3578.3624	0.31908942	0.08564942	3.72552933	0.00019491	0.00988915	Slc25a38	solute carrier family 25, member 38
ENSMUSG00	212.673964	1.22219052	0.30059997	4.06583718	4.79E-05	0.00329404	Lyz14	lysozyme-like 4
ENSMUSG00	2360.83333	0.26891619	0.09011718	2.98407254	0.00284439	0.0661274	Mrp13	mitochondrial ribosomal protein L3
ENSMUSG00	6376.61595	0.26067571	0.0811361	3.21282039	0.00131438	0.03973503	Col6a4	collagen, type VI, alpha 4
ENSMUSG00	1188.1037	0.44675581	0.12586994	3.54934466	0.00038619	0.01676995	Alpk2	alpha-kinase 2
ENSMUSG00	5179.21124	0.286986	0.0928992	3.08921941	0.00200683	0.05178498	Mgl1	monoglyceride lipase
ENSMUSG00	2369.60275	0.32439585	0.1063443	3.05043002	0.00228514	0.05676338	Gstt2	glutathione S-transferase, theta 2
ENSMUSG00	2105.03987	0.26415316	0.09278996	2.84678606	0.0044163	0.08818932	Tnxb	tenascin XB
ENSMUSG00	5891.72656	0.32111168	0.11525935	2.78599247	0.00533641	0.09959676	Chst2	carbohydrate sulfotransferase 2
ENSMUSG00	7038.33733	0.27240248	0.09124746	2.98531578	0.00283286	0.06603553	Atp6v0b	ATPase, H+ transporting, lysosomal V0 subunit B
ENSMUSG00	473.840269	0.46239604	0.15830824	2.92085895	0.00349068	0.07513372	B3gal1	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 2
ENSMUSG00	7681.88055	0.33699361	0.08638094	3.90124958	9.57E-05	0.0056873	Poglut1	protein O-glucosyltransferase 1
ENSMUSG00	10248.7971	0.26789507	0.08852274	3.02628548	0.00247578	0.05964761	Tspoap1	TSPO associated protein 1
ENSMUSG00	7032.53709	0.38989312	0.0853892	4.56607076	4.97E-06	0.00054768	Cpne2	copine II
ENSMUSG00	858.893799	0.49714228	0.11872788	4.1872412	8.25E-05	0.00219502	lrf	leukemia inhibitory factor
ENSMUSG00	5688.08573	0.22765612	0.07348151	3.0981414	0.00194738	0.05106586	Cyb561a3	cytochrome

ENSMUSG00	23784.6161	0.20780886	0.06684499	3.10881739	0.00187838	0.04983062	Clic4	chloride intracellular channel 4 (mitochondrial)
ENSMUSG00	1221.3388	0.52424736	0.12596074	4.16199028	3.15E-05	0.00239893	Galnt6	polypeptide N-acetylgalactosaminyltransferase 6
ENSMUSG00	17460.8061	0.20922417	0.07446234	2.80979856	0.00495725	0.09506677	Tap1	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)
ENSMUSG00	1480.18432	0.34720697	0.09746424	3.56240367	0.00036747	0.01611798	Nudt22	nudix (nucleoside diphosphate linked moiety X)-type motif 22
ENSMUSG00	55989.7746	0.30070386	0.06914311	4.34900714	1.37E-05	0.00126666	Icam1	intercellular adhesion molecule 1
ENSMUSG00	3805.37491	0.42614141	0.07545886	5.64733414	1.63E-08	3.59E-06	Kcnh3	potassium voltage-gated channel, subfamily H (eag-related), member 3
ENSMUSG00	467.139867	0.5512256	0.19799428	2.78404807	0.00536851	0.09998056	Kcnk2	potassium channel, subfamily K, member 2
ENSMUSG00	21294.0674	0.2143331	0.06817811	3.14372305	0.00166813	0.04632725	Inf2	inverted formin, FH2 and WH2 domain containing
ENSMUSG00	3882.46131	0.44283013	0.08409988	5.26552654	1.40E-07	2.41E-05	Cd81	CD81 antigen
ENSMUSG00	2303.74652	0.37173319	0.09088907	4.0899659	4.31E-05	0.0030539	Cdc33	coiled-coil domain containing 33
ENSMUSG00	6043.06543	0.28957381	0.08240573	3.51400076	0.00044141	0.01861089	Tapbp1	TAP binding protein-like
ENSMUSG00	1307.22254	0.40683724	0.14444314	2.81659091	0.00485363	0.09401142	Asic3	acid-sensing (proton-gated) ion channel 3
ENSMUSG00	930.686073	1.04101426	0.20813597	5.00160664	5.69E-07	8.68E-05	Atg9b	autophagy related 9B
ENSMUSG00	947.472847	0.63432711	0.11236065	5.64545615	1.65E-08	3.59E-06	Alf1l	AFG1 like ATPase
ENSMUSG00	6692.3884	0.36209823	0.09576588	3.78107772	0.00015615	0.00838512	Ankrd35	ankyrin repeat domain 35
ENSMUSG00	10155.1272	0.29309823	0.07784594	3.76510607	0.00016648	0.00873159	Ttfdp1	transcription factor Dp 1
ENSMUSG00	1377.74629	0.50199623	0.1629567	3.08054975	0.00206619	0.05283192	Gdf15	growth differentiation factor 15
ENSMUSG00	3208.41441	0.39433098	0.1033273	3.81632898	0.00013545	0.00748769	Sp6	trans-acting transcription factor 6
ENSMUSG00	7482.49661	0.32159014	0.1004299	3.20213533	0.00136413	0.04060441	Atp5j1	ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit F2
ENSMUSG00	1676.86348	0.23954724	0.10693456	3.08176558	0.00205777	0.052694	Mboat1	membrane bound O-acyltransferase domain containing 1
ENSMUSG00	3333.85942	0.66450008	0.10037844	6.6199486	3.59E-11	1.60E-08	Ephx1	epoxide hydrolase 1, microsomal
ENSMUSG00	9369.22389	0.23251415	0.07824398	2.97165562	0.00296199	0.06715766	Stap2	signal transducing adaptor family member 2
ENSMUSG00	4114.03734	0.27798786	0.08556017	3.24903361	0.00115798	0.03672836	Rabggbtb	Rab geranylgeranyl transferase, b subunit
ENSMUSG00	1924.08996	0.41435567	0.12552812	3.30089915	0.00096376	0.03233501	Igfbp2	insulin-like growth factor binding protein 2
ENSMUSG00	3429.93402	0.30315131	0.08774224	3.45502118	0.00055025	0.02172675	Orai2	ORAI calcium release-activated calcium modulator 2
ENSMUSG00	827.568229	0.38785181	0.12996485	2.98428243	0.00284244	0.0661274	Cercam	cerebral endothelial cell adhesion molecule
ENSMUSG00	1036.77501	0.64300524	0.12086996	5.31981006	1.04E-07	1.88E-05	Xkr5	X-linked Kx blood group related 5
ENSMUSG00	53.4487247	1.26502973	0.39942725	3.16710924	0.00153962	0.04406462	Rep15	RAB15 effector protein
ENSMUSG00	961.379318	0.64609951	0.1304766	4.95184185	7.35E-07	0.00010668	Dnm3	dynamins 3
ENSMUSG00	7702.88134	0.32974868	0.09234334	3.57089819	0.00035576	0.01591028	Ppp1r15a	protein phosphatase 1, regulatory subunit 15A
ENSMUSG00	2946.37257	0.39058292	0.11795599	3.31125978	0.00092877	0.03158723	Matn1	matrilin 1, cartilage matrix protein
ENSMUSG00	4520.12336	0.35365532	0.0868792	4.07065556	4.69E-05	0.00325235	Rcsd1	RCS domain containing 1
ENSMUSG00	411.942842	1.04883223	0.16498544	6.35706556	2.06E-10	7.67E-08	Slc19a2	solute carrier family 19 (thiamine transporter), member 2
ENSMUSG00	1192.15015	1.14444331	0.1591166	7.1924178	6.37E-13	4.43E-10	Grid1	glutamate receptor, ionotropic, delta 1
ENSMUSG00	3496.36519	0.31942143	0.10650585	2.99909744	0.00270781	0.06354588	Plekha6	pleckstrin homology domain containing, family A member 6
ENSMUSG00	6108.79904	0.34346238	0.09819039	3.49755588	0.00046954	0.01934153	Phlda3	pleckstrin homology like domain, family A, member 3
ENSMUSG00	482.467416	0.51407393	0.16795626	3.06076065	0.00220776	0.05523511	Rhod	ras homology family member D
ENSMUSG00	4090.1176	0.25534515	0.08441987	3.02481079	0.00248789	0.05980575	Slc16a6	solute carrier family 16 (monocarboxylic acid transporters), member 6
ENSMUSG00	2871.61779	0.35578292	0.09619371	3.69860889	0.00021678	0.0181623	Klhd8c	kelch domain containing 8A
ENSMUSG00	51757.3848	0.25211278	0.08965082	2.81226415	0.00491941	0.09473669	S100a14	S100 calcium binding protein A14
ENSMUSG00	4883.87366	0.35094786	0.09579595	3.66349368	0.0002488	0.01216945	Ikkbe	inhibitor of kappaB kinase epsilon
ENSMUSG00	1820.8734	0.4223146	0.12989654	3.251214	0.00114913	0.03668296	Dusp15	dual specificity phosphatase-like 15
ENSMUSG00	1911.60577	0.42818386	0.11061163	3.87105632	0.00010836	0.00633207	Atpaf2	ATP synthase mitochondrial F1 complex assembly factor 2
ENSMUSG00	10238.0033	0.24350211	0.0679308	3.5845611	0.00033765	0.01539116	Tmem18	transmembrane protein 18
ENSMUSG00	2304.25259	0.35028351	0.11839993	2.95847748	0.00309163	0.06896803	Tuba1c	tubulin, alpha 1C
ENSMUSG00	2429.80173	0.39912884	0.10314774	3.86948695	0.00010906	0.00635165	Niban3	niban apoptosis regulator 3
ENSMUSG00	1410.7291	0.7053821	0.11100195	6.354682	2.09E-10	7.67E-08	Rbm20	RNA binding motif protein 20
ENSMUSG00	1001.57834	0.3454724	0.10624527	3.25164957	0.00114737	0.03668296	Npsr1	neuropeptide S receptor 1
ENSMUSG00	1730.79594	0.38773769	0.11970477	3.23911651	0.00119901	0.03734935	Tnfp3	TNFAIP3 interacting protein 3
ENSMUSG00	230.951917	0.66481377	0.21907347	3.03464877	0.00240816	0.05864795	Dnd1	DNDR microRNA-mediated repression inhibitor 1
ENSMUSG00	532.491298	1.13664999	0.15460046	7.35217413	1.95E-13	1.43E-10	D630023F18	RIKEN cDNA D630023F18 gene
ENSMUSG00	1937.96879	0.319887	0.09795788	3.26555663	0.00109249	0.03569147	S1pr1	sphingosine-1-phosphate receptor 1
ENSMUSG00	23556.8183	0.20874179	0.0712684	2.92895293	0.00340106	0.07374744	Rpl18a	ribosomal protein L18A
ENSMUSG00	341.598476	0.99862237	0.22395978	4.45893613	8.24E-06	0.00083875	E330021D16	RIKEN cDNA E330021D16 gene
ENSMUSG00	21617.6229	0.39331819	0.07329083	5.36654	8.03E-08	1.52E-05	Sh3tc2	SH3 domain and tetratricopeptide repeats 2
ENSMUSG00	1210.56993	0.65998654	0.10433263	6.32579226	2.52E-10	8.60E-08	Pqlc3	PQ loop repeat containing
ENSMUSG00	4407.30379	0.3016329	0.09760103	3.09046825	0.00199841	0.0517063	Igfals	insulin-like growth factor binding protein, acid labile subunit
ENSMUSG00	3987.31903	0.67110262	0.10503284	6.38945504	1.66E-10	6.44E-08	Lxn	latexin
ENSMUSG00	21710.3849	0.21042256	0.07296308	2.88395942	0.00392709	0.08165632	Syngir2	synaptogyrin 2
ENSMUSG00	693.524105	0.109320057	0.14871804	7.3508269	1.97E-13	1.43E-10	Ink2a	ink2 box actin regulator 2
ENSMUSG00	746.321367	0.4839699	0.15689663	3.08464181	0.00203797	0.05247672	Tenn2	teneurin transmembrane protein 2
ENSMUSG00	83290.3275	0.3765167	0.08916477	4.22320895	2.41E-05	0.00193267	Tmsb4x	thymosin, beta 4, X chromosome
ENSMUSG00	3177.54256	0.33802824	0.09184244	3.6805234	0.00023276	0.01148152	Ptges	prostaglandin E synthase
ENSMUSG00	542.360706	0.41666329	0.13553309	3.07425498	0.00211029	0.05342877	Tatdn1	TatDN DNase domain containing 1
ENSMUSG00	10432.6065	0.32412736	0.08396363	3.86033036	0.00011323	0.00655063	Gja1	gap junction protein, alpha 1
ENSMUSG00	253.035465	0.61425161	0.20596087	2.98237044	0.00286026	0.06634016	Serpinc1b	serine (or cysteine) peptidase inhibitor, clade B, member 1b
ENSMUSG00	307.782768	0.64272914	0.19672745	3.26710458	0.00108654	0.03556361	Cox6b2	cytochrome c oxidase subunit 6B2
ENSMUSG00	660.140091	0.79721176	0.1694151	4.70567122	2.53E-06	0.00031472	E230016K23	RIKEN cDNA E230016K23 gene
ENSMUSG00	1028.67196	0.42597414	0.11431925	3.72618028	0.0001944	0.00988915	Tg	thyroglobulin
ENSMUSG00	1042.68461	0.53359966	0.13167519	4.05239328	5.07E-05	0.00344834	Sh2d4a	SH2 domain containing 4A
ENSMUSG00	3015.28125	0.43575848	0.11477212	3.79672776	0.00014662	0.00801715	Krt15	keratin 15
ENSMUSG00	2670.50453	0.28898757	0.10368317	2.78721771	0.00531627	0.0995401	Maf	avian musculoaponeurotic fibrosarcoma oncogene homolog
ENSMUSG00	1109.15591	0.32536529	0.11581699	2.80930531	0.00496485	0.09510781	Nod2	nucleotide-binding oligomerization domain containing 2
ENSMUSG00	1808.13241	0.26917164	0.09448066	2.84896037	0.00438623	0.08796053	Cars2	cysteinylnl-tRNA synthetase 2 (mitochondrial)(putative)
ENSMUSG00	310.302177	0.76222618	0.21538918	3.53883232	0.0004019	0.01732253	Uts2b	urotensin 2B
ENSMUSG00	1134.11873	0.40405438	0.10643371	3.79630067	0.00014687	0.00801715	Drc3	dynein regulatory complex subunit 3
ENSMUSG00	10140.696	0.35460231	0.08118581	4.36778656	1.26E-05	0.00117502	Capp	capping protein (actin filament), gelsolin-like
ENSMUSG00	423.08435	0.59335094	0.18635087	3.18405242	0.00145229	0.04200777	Gliplr1	gli pathogenesis-related 1 (glioma)
ENSMUSG00	3189.00247	0.44624056	0.0905757	4.92671407	8.36E-07	0.00012034	St6galnac2	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 2
ENSMUSG00	15551.4874	0.2336462	0.07586165	3.07747611	0.00208762	0.05301569	Birc2	baculoviral IAP repeat-containing 2
ENSMUSG00	795.625084	0.4801942	0.14430469	3.32764104	0.00087585	0.0303807	Bloc1s2	biogenesis of lysosomal organelles complex-1, subunit 2
ENSMUSG00	13561.5654	0.25906843	0.08969222	2.88841573	0.00387188	0.08097129	Colq	collagen-like tail subunit (single strand of homotrimer) of asymmetric acyltransferase
ENSMUSG00	3565.03847	0.26524102	0.09342893	2.83896032	0.00452608	0.08986614	Zfp809	zinc finger protein 809
ENSMUSG00	1284.64747	0.73571037	0.15135985	4.86067066	1.17E-06	0.00016168	Adtrp	androgen dependent TFPI regulating protein
ENSMUSG00	479.647065	0.58314699	0.20431438	2.8541652	0.00431501	0.0869644	Gstp3	glutathione S-transferase pi 3
ENSMUSG00	1610.51367	0.73258477	0.12863109	5.69523863	1.23E-08	2.79E-06	Serpina9	serine (or cysteine) peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 9
ENSMUSG00	18017.4913	0.23390419	0.07076856	3.30519919	0.00094909	0.03202808	Rpl5	ribosomal protein L5
ENSMUSG00	680.530711	0.56963349	0.20232465	2.81544288	0.00487101	0.0942148	Fcer1g	Fc receptor, IgE, high affinity I, gamma polypeptide
ENSMUSG00	266.809243	0.54185243	0.19110347	2.83538762	0.00457701	0.09046481	Rad51b	RADS1 paralogue B
ENSMUSG00	332.630966	0.92601659	0.21330017	4.34137764	1.42E-05	0.00130452	Actg2	actin, gamma 2, smooth muscle, enteric
ENSMUSG00	11324.3073	0.26397399	0.07594779	3.47572956	0.00050947	0.02048805	Ptk2b	PTK2 protein tyrosine kinase 2 beta
ENSMUSG00	7211.95701	0.32885073	0.10117166	3.25042331	0.00115233	0.03668296	Tnfp2	TNFAIP3 interacting protein 2
ENSMUSG00	2690.58167	0.75211742	0.08599572	8.74598703	2.21E-18	3.85E-15	Ptp4a3	protein tyrosine phosphatase 4a3
ENSMUSG00	39559.2599	0.25674194	0.08719687	2.94439392	0.00323588	0.07114438	H2-Q7	histocompatibility 2, Q region locus 7
ENSMUSG00	8303.91913	0.29309406	0.08893091	3.2957502	0.00098159	0.03261922	Blink	B cell linker
ENSMUSG00	278590.206	0.21088086	0.07490841	2.81518266	0.00			

ENSMUSG00	1821.34367	0.49895827	0.14559746	3.42697106	0.00061035	0.0234099	Fcho1	FCH domain only 1
ENSMUSG00	3332.34579	0.28202762	0.08411415	3.35291547	0.00079965	0.02847511	Sp110	Sp110 nuclear body protein
ENSMUSG00	57.8460696	1.2253263	0.3755268	3.26295301	0.00110258	0.03575268	Olfrr155	olfactory receptor 155
ENSMUSG00	40978.1778	0.24944203	0.07178743	3.47473125	0.00051137	0.02051706	H2-Q6	histocompatibility 2, Q region locus 6
ENSMUSG00	3438.41267	0.33853867	0.10745945	3.15038527	0.00163055	0.04559307	Pappa2	pappalysin 2
ENSMUSG00	1260.68282	0.80795542	0.13823613	5.84474862	5.07E-09	1.28E-06	Gm5532	predicted gene 5532
ENSMUSG00	162.337213	0.73973919	0.23188223	3.19015037	0.00142199	0.04159741	1700066819	RIKEN cDNA 1700066819 gene
ENSMUSG00	42713.0254	0.24092513	0.07426971	3.24392173	0.00117896	0.03698965	Il4i1	interleukin 4 induced 1
ENSMUSG00	360.774443	0.58073043	0.16061492	3.61566915	0.00029957	0.01404203	4930579C12I	RIKEN cDNA 4930579C12 gene
ENSMUSG00	24744.9693	0.26121005	0.08194603	3.18758633	0.00143466	0.04163612	S100a16	S100 calcium binding protein A16
ENSMUSG00	660.904052	0.55543101	0.14545984	3.81844923	0.00013429	0.00747108	Foxs1	forkhead box S1
ENSMUSG00	275.890667	1.33568972	0.21930259	6.09062432	1.12E-09	3.56E-07	Ano3	anoctamin 3
ENSMUSG00	7815.26237	0.4470813	0.08721703	5.12607817	2.96E-07	4.77E-05	Cd80	CD80 antigen
ENSMUSG00	2363.93374	0.82386324	0.12260481	6.71966499	1.82E-11	8.57E-09	Scn9a	sodium channel, voltage-gated, type IX, alpha
ENSMUSG00	1558.0509	0.51975155	0.13080769	3.97340209	7.09E-05	0.00462086	Rprm	reprimo, TP53 dependent G2 arrest mediator candidate
ENSMUSG00	1247.22855	0.3124632	0.10562366	2.95826896	0.00309372	0.06896803	Sarpn	SAP domain containing ribonucleoprotein
ENSMUSG00	232.91097	0.74703927	0.21214816	3.52130922	0.00042942	0.01814931	Zfp268	zinc finger protein 268
ENSMUSG00	283.142326	1.01718794	0.2091491	4.8634584	1.15E-06	0.00016069	Dact3	dishevelled-binding antagonist of beta-catenin 3
ENSMUSG00	2544.03994	0.72114899	0.11035065	6.53506808	6.36E-11	2.64E-08	Col22a1	collagen, type XXII, alpha 1
ENSMUSG00	19653.3258	0.32539693	0.09130995	3.56365242	0.00036573	0.01611798	Psme2	proteasome (prosome, macropain) activator subunit 2 (PA28 beta)
ENSMUSG00	12116.0589	0.44821063	0.0883796	5.07142632	3.95E-07	6.14E-05	Pglyrp2	peptidoglycan recognition protein 2
ENSMUSG00	3670.6854	0.27571272	0.0947244	2.91068325	0.00360639	0.07705294	Eloc	elongin C
ENSMUSG00	232.624681	0.96634408	0.32492259	2.97407474	0.00293873	0.06715766	NA	NA
ENSMUSG00	127.725294	1.10084505	0.27129207	4.05778554	4.95E-05	0.00339624	Al847159	expressed sequence Al847159
ENSMUSG00	694.656351	0.42736082	0.12652844	3.37758714	0.00073125	0.02652754	Slc2a4rg-ps	Slc2a4 regulator, pseudogene
ENSMUSG00	974.614103	0.79973811	0.15269872	5.23735951	1.63E-07	2.73E-05	Snhg15	small nucleolar RNA host gene 15
ENSMUSG00	4101.36852	0.25973564	0.08474869	3.06477485	0.00217834	0.05457758	NA	NA
ENSMUSG00	2647.00435	0.76538619	0.09264389	8.26159416	1.44E-16	1.79E-13	Slc13a2os	solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2, opposite strand
ENSMUSG00	136.311476	1.28830647	0.25376485	5.07677266	3.84E-07	6.02E-05	Trp53cor1	tumor protein p53 pathway corepressor 1
ENSMUSG00	84.6487882	0.89422381	0.30343594	2.94699372	0.0032088	0.07081722	NA	NA
ENSMUSG00	118.566424	0.98807471	0.30349209	3.25568518	0.00113119	0.03636146	A930001C03	RIKEN cDNA A930001C03 gene
ENSMUSG00	329.84203	0.72644992	0.2355307	3.08431093	0.00204024	0.05247672	Pou3f1	POU domain, class 3, transcription factor 1
ENSMUSG00	964.296717	0.56807862	0.13144422	4.32182266	1.55E-05	0.00138896	Tcerg1l	transcription elongation regulator 1-like
ENSMUSG00	1262.54436	0.30779901	0.11027776	2.79112511	0.00525252	0.09891409	11110038812	RIKEN cDNA 11110038812 gene
ENSMUSG00	328.865373	1.05802462	0.2073805	5.10185213	3.36E-07	5.32E-05	1700092C10I	RIKEN cDNA 1700092C10 gene
ENSMUSG00	426.538006	0.67473247	0.16123611	4.18474784	2.85E-05	0.00219961	Art2a	ADP-ribosyltransferase 2a
ENSMUSG00	2394.52405	0.27397596	0.09701084	2.82417874	0.00474019	0.09243113	Serpib10	serine (or cysteine) peptidase inhibitor, clade B (ovalbumin), member 10
ENSMUSG00	13293.0517	0.31332725	0.10561849	2.96659484	0.00301117	0.06774365	Rpl41	ribosomal protein L41
ENSMUSG00	3612.26106	0.27873562	0.08743748	3.18782757	0.00143346	0.04163612	S100a2	S100 calcium binding protein A2
ENSMUSG00	15304.1207	0.39112333	0.08092612	4.83309149	1.34E-06	0.00018288	NA	NA
ENSMUSG00	3040.58035	0.54797446	0.12092789	4.53141485	5.86E-06	0.00063368	Ptprv	protein tyrosine phosphatase, receptor type, V
ENSMUSG00	1144.17063	0.44669711	0.14266489	3.13109362	0.00174157	0.04716313	Bcl2a1d	B cell leukemia/lymphoma 2 related protein A1d
ENSMUSG00	3132.24028	0.3663043	0.12797663	2.86227491	0.00420612	0.08556209	NA	NA
ENSMUSG00	609.01218	0.41645611	0.13771098	3.0241315	0.00249348	0.05980575	NA	NA
ENSMUSG00	777.750592	0.41873943	0.1378811	3.03696039	0.00238977	0.05829398	NA	NA
ENSMUSG00	2086.27939	0.42609454	0.11841234	3.59839635	0.00032019	0.01471079	NA	NA
ENSMUSG00	170.833351	0.84976664	0.24821601	3.42349647	0.00061821	0.02360724	NA	NA
ENSMUSG00	984.438368	0.99006698	0.33798163	2.92935146	0.0033967	0.07374744	NA	NA
ENSMUSG00	240.030646	0.72727609	0.21448084	3.39086743	0.00069672	0.02554095	NA	NA
ENSMUSG00	161.64821	0.74001387	0.25300757	2.92486855	0.00344602	0.07444852	NA	NA
ENSMUSG00	1840.06533	0.49087164	0.12783985	3.83973879	0.00012317	0.0069407	NA	NA
ENSMUSG00	526.055862	0.56253061	0.15709852	3.58075049	0.00034261	0.01541562	Gm32815	predicted gene, 32815
ENSMUSG00	178.278618	0.88182939	0.28205129	3.1264859	0.00176909	0.04775994	2900057B20	RIKEN cDNA 2900057B20 gene
ENSMUSG00	186.722322	0.92067346	0.21655583	4.25143686	2.12E-05	0.00176123	NA	NA
ENSMUSG00	477.906206	0.40086994	0.14381454	2.78740901	0.00531314	0.0995401	A930007A09	RIKEN cDNA A930007A09 gene

Table 5. GO Downregulated in cKO cTEC

id	term	inPopulation	inStudySet	estimate	std.error	items
GO:0021562	vestibulocochlear system	8	3	0.630868	0.012551	ENSMUSG000000025969; ENSMUSG000000027950; ENSMUSG000000045871
GO:0071636	positive regulation of cell growth	19	5	0.57294	0.03062055	ENSMUSG000000015957; ENSMUSG000000030530; ENSMUSG000000032487; ENSMUSG000000036446; ENSMUSG000000067001
GO:0061669	spontaneous cell death	9	3	0.522488	0.01575685	ENSMUSG000000035864; ENSMUSG000000037386; ENSMUSG000000052301
GO:0032532	regulation of cell growth	6	3	0.432208	0.02883883	ENSMUSG000000025497; ENSMUSG000000026175; ENSMUSG000000034918
GO:1901570	fatty acid metabolism	60	7	0.40268	0.01725937	ENSMUSG000000018796; ENSMUSG000000025701; ENSMUSG000000026335; ENSMUSG000000029919; ENSMUSG000000032487; ENSMUSG000000047250; ENSMUSG000000060063
GO:1901021	positive regulation of cell growth	41	5	0.29478	0.01376317	ENSMUSG000000006936; ENSMUSG000000019370; ENSMUSG000000026576; ENSMUSG000000034330; ENSMUSG000000040118
GO:0048710	regulation of cell growth	32	4	0.263372	0.01238944	ENSMUSG000000003436; ENSMUSG000000033326; ENSMUSG000000036634; ENSMUSG000000038539
GO:0048712	negative regulation of cell growth	17	3	0.228728	0.02559467	ENSMUSG000000003436; ENSMUSG000000033326; ENSMUSG000000038539
GO:1903515	calcium ion transport	2	2	0.228412	0.00952399	ENSMUSG000000020788; ENSMUSG000000029467
GO:0046461	neutral lipid metabolic process	32	4	0.200284	0.00918372	ENSMUSG000000020573; ENSMUSG000000032080; ENSMUSG000000034171; ENSMUSG000000039202
GO:0032528	microvillus morphogenesis	25	4	0.18494	0.01640636	ENSMUSG000000025497; ENSMUSG000000026175; ENSMUSG000000028943; ENSMUSG000000034918
GO:0032914	positive regulation of cell growth	7	3	0.181428	0.01902413	ENSMUSG000000030530; ENSMUSG000000036446; ENSMUSG000000067001
GO:0046464	acylglycerol metabolic process	32	4	0.158756	0.01636517	ENSMUSG000000020573; ENSMUSG000000032080; ENSMUSG000000034171; ENSMUSG000000039202
GO:1905867	epididymis development	5	2	0.157036	0.0129256	ENSMUSG00000004266; ENSMUSG000000046252
GO:0046967	cytosol to extracellular space transport	4	2	0.145408	0.01344832	ENSMUSG000000020788; ENSMUSG000000029467
GO:0051452	intracellular transport	36	4	0.142164	0.00822518	ENSMUSG000000031883; ENSMUSG000000032245; ENSMUSG000000037242; ENSMUSG000000038023
GO:0007035	vacuolar acid secretion	20	3	0.137568	0.01044827	ENSMUSG000000032245; ENSMUSG000000037242; ENSMUSG000000038023
GO:0098814	spontaneous cell death	15	3	0.136004	0.00376617	ENSMUSG000000035864; ENSMUSG000000037386; ENSMUSG000000052301
GO:1903279	regulation of cell growth	3	2	0.129832	0.00554275	ENSMUSG000000007097; ENSMUSG000000026576
GO:0120316	sperm flagellum morphogenesis	19	3	0.128928	0.01028344	ENSMUSG000000006435; ENSMUSG000000022783; ENSMUSG000000047021
GO:0046503	glycerolipid catabolic process	51	5	0.126076	0.00861516	ENSMUSG000000020573; ENSMUSG000000022425; ENSMUSG000000032080; ENSMUSG000000034171; ENSMUSG000000039202
GO:0007288	sperm axoneme assembly	19	3	0.123424	0.00782094	ENSMUSG000000006435; ENSMUSG000000022783; ENSMUSG000000047021
GO:0030046	parallel actin filament organization	6	2	0.117652	0.00539875	ENSMUSG000000010154; ENSMUSG000000028943
GO:0045742	positive regulation of cell growth	28	4	0.1136	0.01167347	ENSMUSG000000006435; ENSMUSG000000006930; ENSMUSG000000031980; ENSMUSG000000033717
GO:0032536	regulation of cell growth	12	3	0.109972	0.0117723	ENSMUSG000000025497; ENSMUSG000000026175; ENSMUSG000000034918
GO:0002540	leukotriene production	3	2	0.100676	0.00595281	ENSMUSG000000025701; ENSMUSG000000060063

Table 6. GO Upregulated in cAD cTCC

id	term	adjPadjValue	adjPadjGut	estimate	std.error	term
GO:003223 cytoskeleton l	46	16	3	0	ENSMUSG00000007992, ENSMUSG00000001749, ENSMUSG00000002054, ENSMUSG00000004982, ENSMUSG00000001780, ENSMUSG00000000261, ENSMUSG00000007215, ENSMUSG00000004917, ENSMUSG00000007122, ENSMUSG00000001784, ENSMUSG00000001783, ENSMUSG00000004291, ENSMUSG00000000036, ENSMUSG00000000098, ENSMUSG00000007288, ENSMUSG00000007864	
GO:004274 cholesterol est	43	11	5	0.584564	0.0043238	ENSMUSG00000009877, ENSMUSG00000002128, ENSMUSG00000000178, ENSMUSG00000007182, ENSMUSG00000000001, ENSMUSG00000007175, ENSMUSG00000007212, ENSMUSG00000004177, ENSMUSG00000000078, ENSMUSG00000000073
GO:004277 cholesterol int	40	11	8	0.82292	0.0013183	ENSMUSG00000000046, ENSMUSG00000000011, ENSMUSG00000000074, ENSMUSG00000000086, ENSMUSG00000000078, ENSMUSG00000001712, ENSMUSG00000000008, ENSMUSG00000000029, ENSMUSG00000000038, ENSMUSG000000002897
GO:004773 ATP synthase	39	8	8	0.502352	0.0238953	ENSMUSG00000008302, ENSMUSG00000004388, ENSMUSG00000005134, ENSMUSG00000004349, ENSMUSG00000004311, ENSMUSG00000000343, ENSMUSG00000000040, ENSMUSG00000000029, ENSMUSG00000000038, ENSMUSG000000002897
GO:003686 serine catab	45	7	0	0.422077	0.02119802	ENSMUSG00000008302, ENSMUSG00000004388, ENSMUSG00000005134, ENSMUSG00000004349, ENSMUSG00000004311, ENSMUSG00000000343, ENSMUSG00000000040

Table 7. GO Downregulated in cKO mTEC									
id	term	inPopulation	inStudySet	estimate	std.error	items			
GO:1904057	negative regl	3	3	0.206852	0.02040512	ENSMUSG000000016529; ENSMUSG000000027895; ENSMUSG000000037362			
GO:0071625	vocalization l	19	6	0.1717	0.02960254	ENSMUSG000000024109; ENSMUSG000000028351; ENSMUSG000000030739; ENSMUSG000000031253; ENSMUSG000000037541; ENSMUSG000000038738			
GO:0060074	synapse mat	29	7	0.121604	0.0360469	ENSMUSG000000000632; ENSMUSG000000006435; ENSMUSG000000022055; ENSMUSG000000024109; ENSMUSG000000030683; ENSMUSG000000038738; ENSMUSG000000058153			
GO:0060412	ventricular st	38	8	0.118564	0.03581177	ENSMUSG000000010175; ENSMUSG000000020644; ENSMUSG000000031558; ENSMUSG000000032744; ENSMUSG000000039910; ENSMUSG000000056427; ENSMUSG000000057123; ENSMUSG000000063632			

Table 8. GO upregulated in QKD mTEC

id	term	upregulation infoStudySet	estimate	std error	Items
GO:0008630	intrinsic seq	104	11	0.879104	0.00694728 ENSMUSG00000003873, ENSMUSG00000005087, ENSMUSG000000006440, ENSMUSG00000002037, ENSMUSG00000003367, ENSMUSG000000032366, ENSMUSG000000034781, ENSMUSG000000041801, ENSMUSG000000042349, ENSMUSG00000002762, ENSMUSG00000009974
GO:0010499	proteasomal	21	5	0.943258	0.00541975 ENSMUSG00000003573, ENSMUSG00000003396, ENSMUSG000000022324, ENSMUSG000000024138, ENSMUSG00000002670
GO:0002474	antigenic proc	20	5	0.650944	0.01865091 ENSMUSG00000003732, ENSMUSG000000038213, ENSMUSG0000000058715, ENSMUSG000000006050, ENSMUSG000000061232
GO:0041104	positive regu	24	4	0.650616	0.01917601 ENSMUSG00000002732, ENSMUSG00000002003, ENSMUSG000000026770, ENSMUSG000000039323
GO:0042119	neuriteguid	28	6	0.460008	0.02626205 ENSMUSG00000001457, ENSMUSG000000021878, ENSMUSG000000025279, ENSMUSG000000029448, ENSMUSG000000031732, ENSMUSG000000058715
GO:1903118	negative reg	35	5	0.461256	0.02988771 ENSMUSG000000016256, ENSMUSG000000020184, ENSMUSG000000026073, ENSMUSG000000026249, ENSMUSG000000057367
GO:0051459	regulation of	9	3	0.402196	0.02050588 ENSMUSG000000021688, ENSMUSG000000030051, ENSMUSG000000034394
GO:0025955	negative reg	35	5	0.367084	0.02059991 ENSMUSG000000016256, ENSMUSG000000020184, ENSMUSG000000026073, ENSMUSG000000026249, ENSMUSG000000057367
GO:0051497	negative reg	30	4	0.307788	0.01587286 ENSMUSG000000039736, ENSMUSG000000032973, ENSMUSG000000022332, ENSMUSG000000040092
GO:0051458	correlation	11	3	0.300964	0.03527856 ENSMUSG000000021688, ENSMUSG000000030051, ENSMUSG000000034394
GO:0018882	antigenic proc	103	11	0.220484	0.01708315 ENSMUSG00000004338, ENSMUSG000000001104, ENSMUSG000000037131, ENSMUSG000000037405, ENSMUSG000000038213, ENSMUSG000000055994, ENSMUSG000000058715, ENSMUSG000000006050, ENSMUSG000000061232, ENSMUSG000000073409, ENSMUSG000000079197
GO:0002446	neuriteguid	29	5	0.201468	0.0180846 ENSMUSG00000001457, ENSMUSG000000021878, ENSMUSG000000025279, ENSMUSG000000027749, ENSMUSG000000029448
GO:2000479	regulation of	19	3	0.189408	0.00357906 ENSMUSG000000020826, ENSMUSG000000028893, ENSMUSG0000000061803
GO:0000249	glutathione r	57	6	0.189394	0.00825447 ENSMUSG00000000665, ENSMUSG000000037737, ENSMUSG000000032864, ENSMUSG000000033318, ENSMUSG000000050737, ENSMUSG000000058216
GO:0019677	NAAD catalab	4	2	0.182744	0.01103615 ENSMUSG000000028108, ENSMUSG0000000030651
GO:0090211	measurment	5	2	0.150904	0.01202091 ENSMUSG000000035782, ENSMUSG000000009439
GO:0005231	regulation of	11	3	0.145828	0.00800367 ENSMUSG000000000958, ENSMUSG000000027737, ENSMUSG0000000028864
GO:0042776	error-prone t	6	2	0.140008	0.00413767 ENSMUSG000000021668, ENSMUSG000000002682
GO:0042773	ATP synthet	59	6	0.128464	0.00530024 ENSMUSG000000028864, ENSMUSG000000030302, ENSMUSG0000000064345, ENSMUSG000000064367, ENSMUSG0000000064370
GO:0018120	peptidyl-angi	5	2	0.123332	0.00754271 ENSMUSG000000030651, ENSMUSG000000034842
GO:0010590	electron tran	4	2	0.118022	0.00652002 ENSMUSG00000004551, ENSMUSG000000004570
GO:0007553	cytoplasmic:	6	2	0.113916	0.00454986 ENSMUSG000000021025, ENSMUSG000000049775
GO:0023232	negative reg	35	4	0.102308	0.00315104 ENSMUSG000000039736, ENSMUSG000000032925, ENSMUSG000000032232, ENSMUSG000000040092
GO:1902999	negative reg	6	2	0.101224	0.01204241 ENSMUSG000000034848, ENSMUSG000000004369