

Table S2: Results from differential gene expression TCMR vs. Control

Podocytes

*This Fold Change was calculated between [C57BL/6 to BALB/c] and [C57BL/6 to C57BL/6]

Gene upr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj	Gene downr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj
H2-K1	1.8664E-16	4.65976017	1	0.519	4.427E-12	Dbp	6.378E-16	-2.91996427	0.208	0.963	1.5128E-11
B2m	2.2092E-16	5.00882864	1	0.444	5.2399E-12	Gm26870	1.5744E-15	-5.89706823	0.021	0.519	3.7343E-11
Gbp2	2.7058E-16	7.37693436	0.993	0.074	6.4179E-12	Sic34a1	7.8122E-15	-4.20736195	0.139	0.778	1.853E-10
H2-D1	3.6959E-16	4.00465234	1	0.852	8.7663E-12	Kap	3.4826E-14	-2.42599018	0.854	1	8.2604E-10
Ilgp1	4.3716E-16	7.73132834	0.986	0.037	1.0369E-11	Lrp2	7.0267E-14	-2.99881998	0.104	0.741	1.6667E-09
Gbp7	5.3091E-16	5.50067378	0.986	0.185	1.2593E-11	Gm42418	1.4241E-13	-1.98619405	1	1	3.3778E-09
Gbp8	2.4104E-15	8.24233658	0.958	0	5.7171E-11	Ass1	1.0191E-12	-3.10113956	0.118	0.741	2.4172E-08
Stat1	3.5919E-15	4.74346443	0.972	0.333	8.5196E-11	Cms1	1.0991E-11	-1.97490779	0.944	1	2.6071E-07
H2-T23	9.2086E-14	3.43811598	0.951	0.481	2.1842E-09	mt-Cytb	3.1172E-11	-2.26499776	0.5	0.963	7.3936E-07
Irgm1	1.5429E-13	4.78478097	0.917	0.148	3.6597E-09	Smarca2	3.9079E-11	-1.85086753	0.403	0.963	9.2692E-07
Cd74	3.1689E-13	5.29545775	0.91	0.111	7.5163E-09	Rdh16f2	4.2346E-11	-4.55692179	0.014	0.37	1.0044E-06
Irgm2	6.4663E-13	4.61154727	0.889	0.111	1.5337E-08	Sic22a8	2.1561E-10	-4.0688824	0.028	0.407	5.1141E-06
Cd274	1.8688E-12	6.28025744	0.854	0.037	4.4325E-08	Sic5a2	3.44E-10	-4.67570016	0.021	0.37	8.1593E-06
Serping1	3.8903E-12	4.60432274	0.861	0.148	9.2273E-08	Mep1a	1.0225E-09	-2.97760021	0.069	0.519	2.4253E-05
H2-Q4	5.2173E-12	4.04209509	0.875	0.148	1.2375E-07	mt-Nd2	1.6137E-09	-1.90479146	0.625	1	3.8276E-05
Spp1	1.5153E-11	2.68229445	0.993	0.704	3.5941E-07	Tmem27	2.6407E-09	-2.37541074	0.229	0.778	6.2635E-05
Gbp3	1.5335E-11	6.83169253	0.806	0	3.6373E-07	Ttc36	2.8771E-09	-1.12891368	0.201	0.778	6.8241E-05
Irf1	2.5857E-11	3.97357535	0.861	0.185	6.133E-07	Gphn	3.9489E-09	-1.09711313	0.944	1	9.3665E-05
Nupr1	4.1701E-11	2.89692661	0.972	0.889	9.8912E-07	Tef	4.606E-09	-2.06574324	0.333	0.852	0.00010925
Psmb9	4.4035E-11	6.5433575	0.785	0	1.0445E-06	Pck1	5.9E-09	-2.88032894	0.125	0.593	0.00013994
Psmb8	5.0306E-11	6.4043356	0.792	0.037	1.1932E-06	mt-Nd5	6.2219E-09	-2.14048296	0.299	0.852	0.00014758
Ly6e	7.3616E-11	3.80572844	0.847	0.111	1.7461E-06	Pth1r	7.668E-09	-1.12963503	0.868	1	0.00018188
Tapbp	8.8693E-11	2.53321281	0.917	0.667	2.1037E-06	Sord	7.8193E-09	-2.91704791	0.139	0.63	0.00018547
Tap1	3.3132E-10	3.82237941	0.806	0.148	7.8585E-06	Gm15564	8.66E-09	-1.94933425	0.292	0.815	0.00020541
Samhd1	4.8199E-09	2.79356099	0.833	0.333	0.00011432	mt-Nd4	8.8053E-09	-1.77001172	0.688	1	0.00020885
Igf1bp7	9.3566E-09	1.09132225	1	1	0.00022193	Gm10801	9.8035E-09	-5.85507793	0	0.222	0.00023253
Ifitm3	1.044E-08	3.92536631	0.75	0.185	0.00024762	Acsn5	9.8035E-09	-5.75253598	0	0.222	0.00023253
Olfr56	1.4239E-08	5.88003528	0.674	0.037	0.00033774	Amn	9.8035E-09	-6.05339745	0	0.222	0.00023253
Parp14	1.7568E-08	4.65785024	0.681	0.037	0.00041669	Ugt3a1	9.8035E-09	-6.00213692	0	0.222	0.00023253
H2-Ab1	2.3772E-08	4.1217733	0.708	0.074	0.00056385	Ak4	1.0416E-08	-4.41056589	0.014	0.296	0.00024705
Ubd	4.0068E-08	6.5401848	0.632	0	0.00095036	Cyp4a10	1.1773E-08	-4.40425108	0.014	0.296	0.00027923
Gm12185	6.1384E-08	4.75239151	0.646	0.037	0.00145596	Lars2	1.3942E-08	-1.73368033	0.674	1	0.00033068
Ubb	6.1414E-08	1.40567249	0.979	0.667	0.00145668	Miox	1.7039E-08	-2.36656001	0.118	0.593	0.00040416
Ifit2	6.2925E-08	4.89934549	0.646	0.037	0.00149252	Peak1	1.9257E-08	-1.58785196	0.708	1	0.00045675
Tap2	8.9907E-08	2.62086092	0.771	0.222	0.0021325	Fmo1	2.837E-08	-2.86626459	0.035	0.37	0.00067292
Gm4951	9.0321E-08	6.34132599	0.611	0	0.00214232	Aldob	3.2489E-08	-2.28196335	0.396	0.889	0.0007706
H2-Eb1	1.1407E-07	5.2196695	0.632	0.037	0.00270553	O610005C13Ri	3.4477E-08	-3.98597352	0.028	0.333	0.00081776
Herc6	1.2387E-07	3.04181701	0.729	0.222	0.00293812	Nat8f1	3.8934E-08	-2.63434268	0.076	0.481	0.00092348
Oasl2	1.6636E-07	4.40457821	0.625	0.037	0.00394596	Gatm	4.031E-08	-2.6558256	0.111	0.556	0.00095611
Psmb10	1.9229E-07	4.43983185	0.625	0.037	0.00456102	Sic13a3	4.9665E-08	-3.41782545	0.028	0.333	0.00117799
Bst2	2.0668E-07	4.33321176	0.625	0.037	0.00490234	Fbp1	6.2287E-08	-3.6968928	0.042	0.37	0.00147739
Ifit3	2.0823E-07	3.30226012	0.708	0.148	0.00493898	Prkce	6.5541E-08	-1.46077765	0.688	0.963	0.00155457
Ly6a	2.8755E-07	2.47892844	0.75	0.185	0.00682051	mt-Atp8	9.4063E-08	-3.1809518	0.056	0.407	0.00223107
Chd9	3.274E-07	1.34695136	0.972	0.815	0.00776554	mt-Co2	1.7179E-07	-1.60731719	0.694	1	0.00407465
Tgtp2	3.3084E-07	5.63746689	0.576	0	0.0078471	Hsd3b2	1.8103E-07	-5.63399738	0	0.185	0.00429387
Rnf213	3.5079E-07	2.3360034	0.799	0.407	0.00832039	Gm16010	1.8103E-07	-6.17977468	0	0.185	0.00429387
Stat2	1.2171E-06	3.00143104	0.674	0.222	0.0288683	AY036118	2.6196E-07	-1.03819062	1	1	0.00621333
Pros1	1.7846E-06	1.70107468	0.84	0.63	0.04232792	Aff3	2.9763E-07	-1.91005531	0.479	0.889	0.0070595
Psme1	1.8691E-06	1.98244897	0.75	0.333	0.04433328	Akr1c21	3.3556E-07	-2.23609008	0.09	0.481	0.00795913
H2-Aa	2.0207E-06	3.75723064	0.604	0.074	0.04792797	Acsn2	3.4997E-07	-2.56040753	0.194	0.63	0.00830091
						Proc	3.5474E-07	-2.66535304	0.035	0.333	0.00841408
						Angptl2	4.4376E-07	-1.53268739	0.521	0.926	0.0105255
						Sic22a12	5.1366E-07	-2.65346027	0.062	0.407	0.01218361
						Bhlhe41	6.3614E-07	-2.58471574	0.104	0.481	0.01508858
						Alpl	8.1736E-07	-3.53867877	0.028	0.296	0.01938703
						Chd3	1.0223E-06	-1.41955233	0.194	0.704	0.02424783
						mt-Co1	1.3403E-06	-1.33175718	0.833	1	0.03179037
						mt-Co3	1.3768E-06	-1.70971396	0.722	1	0.03265665
						Ces1f	1.3791E-06	-3.82017595	0.021	0.259	0.03270978
						Mgat3	1.6125E-06	-3.33619944	0.021	0.259	0.0382477
						Adcy5	1.9738E-06	-1.55470358	0.215	0.667	0.04681617

Table S2: Results from differential gene expression TCMR vs. Control

Podocytes

*This Fold Change was calculated between [BALB/c to C57BL/6] and [BALB/c to BALB/c]

Gene upr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj	Gene downr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj
B2m	1.9302E-21	5.93151467	1	0.378	4.5782E-17	Nphs1	4.4078E-14	-1.10906013	0.923	1	1.0455E-09
H2-K1	2.239E-21	5.18669742	1	0.467	5.3106E-17	Thsd7a	6.7256E-12	-1.10069632	1	1	1.5952E-07
H2-D1	2.8238E-21	4.21743456	1	0.778	6.6978E-17	Gm26870	8.3331E-10	-5.35259407	0.011	0.4	1.9765E-05
Ilgp1	7.7454E-21	10.3157614	0.967	0	1.8371E-16	Nlk	2.257E-08	-1.20441055	0.802	1	0.00053533
Spp1	6.333E-20	3.91121412	0.989	0.489	1.5021E-15	Slain2	3.5989E-08	-1.32112331	0.484	0.889	0.00085363
H2-T23	1.8251E-19	3.67543758	0.989	0.4	4.3289E-15	Elmo1	4.928E-08	-1.51642321	0.67	0.911	0.00116888
Cd74	4.4352E-19	6.51550428	0.934	0.067	1.052E-14	Ephb1	1.2025E-07	-1.06534397	0.725	0.956	0.00285213
Irgm1	1.0126E-18	7.03733723	0.912	0.044	2.4019E-14	Lypd1	1.4375E-07	-2.87636407	0.066	0.444	0.00340955
Gbp2b	1.1059E-18	6.11418027	0.923	0.089	2.6232E-14	Gm9869	2.2157E-07	-2.7807112	0.033	0.378	0.00525542
Gbp8	1.2425E-18	8.6928537	0.901	0	2.9471E-14	Mast4	2.5685E-07	-1.07794976	0.857	0.978	0.00609225
Tapbp	1.6359E-18	3.29299096	0.978	0.489	3.8801E-14	Syne1	2.6264E-07	-1.16801785	0.604	0.956	0.00622959
Stat1	3.2385E-18	3.39660398	0.989	0.4	7.6813E-14	Prkg1	3.6277E-07	-1.05319087	0.956	0.978	0.00860453
Psmb9	2.0233E-17	6.88416279	0.868	0.022	4.799E-13	St6gal1	9.1822E-07	-1.09332337	0.747	0.956	0.0217793
Psmb8	2.0233E-17	7.3253718	0.868	0.022	4.799E-13	Wt1os	9.972E-07	-1.09211385	0.637	0.978	0.02365267
H2-Q4	3.8607E-17	3.85352397	0.912	0.133	9.1572E-13						
Gbp7	6.1315E-17	5.19200529	0.89	0.156	1.4543E-12						
Irgm2	1.7455E-16	4.48885422	0.879	0.133	4.1401E-12						
Gbp3	1.3942E-15	6.24831471	0.813	0.022	3.307E-11						
Tap1	3.458E-15	4.64669532	0.824	0.067	8.2021E-11						
Gbp2	5.008E-15	6.79954635	0.791	0.022	1.1879E-10						
Tap2	7.7353E-15	4.60077633	0.824	0.156	1.8347E-10						
H2-Ab1	1.0654E-14	5.93237103	0.791	0.044	2.5269E-10						
Serping1	1.1139E-14	6.1077849	0.78	0.022	2.6421E-10						
Cd274	1.4513E-13	7.05478658	0.736	0.022	3.4423E-09						
Fth1	5.3798E-13	1.6610118	0.989	0.867	1.276E-08						
Irf1	1.5707E-12	5.45781979	0.714	0.044	3.7257E-08						
Ly6a	3.2211E-12	3.71931124	0.769	0.111	7.6402E-08						
H2-Eb1	3.5182E-12	7.097855	0.67	0	8.3449E-08						
Ubd	3.5182E-12	6.91054565	0.67	0	8.3449E-08						
H2-Aa	3.8771E-12	6.53141973	0.681	0.022	9.196E-08						
Timp3	1.0906E-11	1.68867971	1	0.956	2.5869E-07						
Bst2	5.5582E-11	4.56997823	0.67	0.067	1.3183E-06						
Olfr56	6.7095E-11	6.560929	0.615	0	1.5914E-06						
Ifitm3	9.6521E-11	5.88307438	0.637	0.044	2.2894E-06						
Psmb10	1.0215E-10	4.32758721	0.659	0.067	2.423E-06						
H2-Q6	3.576E-10	6.17533046	0.582	0	8.4819E-06						
Parp14	6.0375E-10	5.40517761	0.604	0.044	1.432E-05						
Nupr1	1.1321E-09	2.51102656	0.978	0.844	2.6853E-05						
Tpt1	2.3242E-09	1.29995355	0.956	0.8	5.5129E-05						
H2-Q7	2.5401E-09	1.80013242	0.901	0.533	6.0249E-05						
Gm4951	5.0062E-09	6.56915454	0.527	0	0.00011874						
mt-Co1	6.5756E-09	1.56562619	0.923	0.578	0.00015597						
Mfge8	6.8292E-09	2.19906652	0.769	0.311	0.00016198						
Calr	1.2478E-08	1.33644508	0.923	0.711	0.00029597						
AW112010	1.3686E-08	6.21239173	0.505	0	0.00032461						
Rpl27a	1.4552E-08	1.61838928	0.857	0.6	0.00034516						
Stat2	1.5546E-08	3.0068586	0.648	0.133	0.00036873						
Ly6e	2.0713E-08	5.62346695	0.516	0.022	0.00049129						
Oasl2	2.2397E-08	6.02597452	0.495	0	0.00053123						
Gm12185	2.6577E-08	4.74821759	0.516	0.022	0.00063039						
Actb	4.2958E-08	1.10961874	0.989	0.956	0.00101892						
Nlrc5	5.4814E-08	3.82206462	0.549	0.067	0.00130012						
Ftl1	5.6257E-08	1.20273704	0.956	0.711	0.00133436						
Cd52	9.4326E-08	6.10861938	0.462	0	0.00223732						
Tgtp2	9.4326E-08	6.00707546	0.462	0	0.00223732						
Col18a1	1.1836E-07	1.28080247	0.912	0.711	0.00280739						
mt-Co3	1.2196E-07	1.52141072	0.934	0.644	0.00289284						
Cxcl10	1.5037E-07	6.62554337	0.451	0	0.00356664						
Rnf213	1.7265E-07	2.19645872	0.692	0.289	0.00409503						
Psap	1.8462E-07	1.34034385	0.868	0.667	0.00437909						
Tmem176a	1.9978E-07	2.1699034	0.747	0.311	0.00473867						
Fgfbbp1	2.1514E-07	3.5916018	0.593	0.178	0.00510283						
Ifi27	2.2366E-07	2.174681	0.692	0.267	0.00530495						
Hsp90b1	3.5404E-07	1.23778519	0.912	0.644	0.00839757						
Xaf1	4.1215E-07	5.06114151	0.451	0.022	0.00977587						
Rps29	5.3804E-07	1.32490449	0.912	0.578	0.01276176						
Hspa5	6.0504E-07	1.36564134	0.89	0.667	0.01435101						
Crim1	8.2162E-07	1.00879828	1	0.956	0.01948797						
Rplp1	9.6638E-07	1.15898195	0.879	0.622	0.02292166						
Hsd17b4	1.001E-06	1.77385056	0.736	0.333	0.02374345						
Rtp4	1.1442E-06	2.94004285	0.484	0.044	0.02713981						
Sparc	1.36E-06	1.05499295	0.989	0.933	0.0322581						
Ifit3	1.6636E-06	3.9011735	0.429	0.022	0.03945858						
Selenok	1.8367E-06	1.61325184	0.758	0.444	0.04356472						
Psme1	2.0668E-06	2.27734113	0.615	0.244	0.04902159						

Table S2: Results from differential gene expression TCMR vs. Control

Proximal Tubules

*This Fold Change was calculated between [C57BL/6 to BALB/c] and [C57BL/6 to C57BL/6]

Gene upr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj	Gene downr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj
Igfbp1	0	6.79956432	0.985	0.035	0	Slc22a28	0	-3.39612562	0.15	0.851	0
Gbp2	0	8.15889149	0.906	0.01	0	Rdh16f2	0	-4.43018876	0.071	0.754	0
Cd74	0	5.74292847	0.985	0.12	0	Tln2	0	-3.47440232	0.213	0.89	0
Ly6e	0	6.08414288	0.915	0.057	0	Ces1d	0	-4.19741159	0.086	0.751	0
Ubd	0	9.5235634	0.859	0.004	0	Slc22a8	0	-4.00737228	0.105	0.768	0
Gm20663	0	8.08685789	0.873	0.025	0	Gm26870	0	-5.45293451	0.032	0.692	0
H2-D1	0	5.05133243	0.969	0.147	0	Ak4	0	-3.6165745	0.15	0.809	0
Gm4951	0	8.54753618	0.822	0.006	0	Slc22a30	0	-3.17708558	0.154	0.808	0
H2-Q7	0	8.10191483	0.797	0.009	0	Nat8f1	0	-3.47995135	0.135	0.785	0
H2-K1	0	5.67350953	0.998	0.222	0	Nat8f3	0	-3.77696507	0.15	0.773	0
Parp14	0	5.38351474	0.816	0.047	0	Ces1f	0	-3.04122884	0.176	0.793	0
Gbp7	0	4.95326268	0.895	0.129	0	Hsd3b2	0	-2.57101919	0.176	0.771	0
Irgm1	0	4.61036671	0.89	0.129	0	Gm39033	0	-4.23851227	0.06	0.645	0
Gbp8	0	8.62206424	0.761	0.006	0	Ugt3a2	0	-2.25287942	0.269	0.846	0
H2-Aa	0	5.5515088	0.793	0.045	0	Hsd3b3	0	-2.3206602	0.226	0.802	0
H2-Ab1	0	5.16821701	0.811	0.068	0	Xylt1	0	-2.76748052	0.252	0.827	0
Irgm2	0	4.81422424	0.806	0.065	0	Miox	0	-2.46969701	0.357	0.93	0
H2-Eb1	0	5.59738196	0.782	0.047	0	Rdh16	0	-2.30644203	0.219	0.782	0
Nlr5	0	5.33503616	0.783	0.055	0	4930533122Rik	0	-4.93549744	0.055	0.609	0
Ly6a	0	4.33206063	0.923	0.198	0	Fmo1	0	-2.22209276	0.263	0.815	0
Stat1	0	4.58487968	0.926	0.203	0	Acaa1b	0	-3.01079632	0.181	0.732	0
Irf1	0	4.93687276	0.77	0.049	0	Akr1c21	0	-2.2941655	0.368	0.916	0
Ctita	0	5.32718951	0.763	0.048	0	Eci3	0	-3.40296584	0.092	0.635	0
Vcam1	0	7.27743627	0.72	0.009	0	Ctnna2	0	-4.83385203	0.05	0.591	0
B2m	0	4.54761621	0.984	0.296	0	Hlf	0	-2.05334585	0.308	0.848	0
H2-Q4	0	5.56818269	0.727	0.039	0	Hnf4aos	0	-2.74881411	0.427	0.966	0
Il34	0	4.4151868	0.838	0.153	0	Pblid1	0	-2.08437062	0.355	0.886	0
Olfir56	0	6.83030682	0.698	0.013	0	Gm6999	0	-2.99303716	0.145	0.674	0
Psmb8	0	6.78573622	0.67	0.014	0	Slc22a18	0	-2.00337035	0.358	0.882	0
Gm12216	0	5.82277323	0.68	0.025	0	0610005C13Ri	0	-2.06349345	0.405	0.928	0
Tmsb4x	0	4.54346334	0.859	0.213	0	Fbp1	0	-2.17467075	0.407	0.927	0
F830016B08R	0	6.77980392	0.624	0.006	0	Nat8f6	0	-4.10383407	0.083	0.598	0
Gm12185	0	6.91858681	0.627	0.01	0	Slc6a20b	0	-2.17689268	0.425	0.937	0
Cxcl10	0	5.98975903	0.626	0.011	0	Col27a1	0	-2.53889007	0.143	0.651	0
Serping1	0	7.12301497	0.614	0.012	0	Al314278	0	-1.62471266	0.333	0.837	0
Cd274	0	6.95221607	0.605	0.016	0	Prex2	0	-3.48917953	0.078	0.577	0
H2-Q6	0	7.86381934	0.583	0.006	0	Pdzd2	0	-2.00291363	0.476	0.973	0
AW112010	0	7.76994559	0.58	0.006	0	Slc13a3	0	-2.96863492	0.205	0.693	0
Zfp981	0	4.93528624	0.908	0.336	0	Tcn2	0	-1.98671781	0.421	0.906	0
Snx10	0	5.13807571	0.618	0.046	0	Gm17276	0	-2.89104013	0.106	0.59	0
Gm4841	0	7.4149893	0.576	0.004	0	Slc25a42	0	-2.20796104	0.235	0.717	0
Nfkbi2	0	3.48254617	0.766	0.198	0	Pck1	0	-2.05947767	0.408	0.888	0
Gbp3	0	5.82597174	0.592	0.028	0	Gatm	0	-2.83939608	0.262	0.742	0
Gm42031	0	4.73099623	0.678	0.12	0	4732463804Ri	0	-2.05851727	0.25	0.73	0
Gvin1	0	7.15895554	0.536	0.007	0	mt-Cytb	0	-2.04480908	0.474	0.952	0
Tap1	0	5.47954967	0.54	0.022	0	Hgd	0	-1.72461993	0.435	0.912	0
Rnf213	0	3.14001334	0.777	0.263	0	Pah	0	-2.50173736	0.346	0.821	0
Tap2	0	4.42628698	0.561	0.053	0	Pecr	0	-1.78911835	0.396	0.87	0
Akt3	0	4.13655192	0.585	0.081	0	Acnat1	0	-2.07307446	0.336	0.809	0
Plac8	0	5.17728125	0.55	0.046	0	Dnajc6	0	-2.07605837	0.285	0.756	0
Ifit2	0	5.15761207	0.522	0.02	0	Alfh8a1	0	-1.8111528	0.295	0.766	0
Tapbp	0	3.51640532	0.618	0.117	0	Nlrp6	0	-2.43354591	0.157	0.628	0
Psmb9	0	6.1313527	0.515	0.015	0	Ranbp31	0	-1.74773158	0.268	0.738	0
Atp8a1	0	3.17300613	0.641	0.144	0	C330002G04Ri	0	-2.55607702	0.148	0.618	0
Tnfrsf10	0	3.25713369	0.669	0.177	0	mt-Nd5	0	-1.8645491	0.235	0.704	0
Herc6	0	3.52867195	0.629	0.138	0	Carl2	0	-3.17092681	0.179	0.643	0
H2-T23	0	3.51465033	0.601	0.118	0	Sord	0	-2.54746221	0.522	0.986	0
Il7	0	4.39608379	0.571	0.103	0	Gm42397	0	-3.36464152	0.412	0.872	0
Gbp5	0	6.66139694	0.475	0.007	0	Dhtkd1	0	-2.33898091	0.171	0.63	0
Tmsb10	0	4.88895554	0.497	0.035	0	Slc22a22	0	-4.21806714	0.033	0.491	0
Ypel2	0	3.09474734	0.745	0.284	0	Galnt11	0	-1.86351629	0.441	0.898	0
Lyz2	0	7.08712778	0.457	0.008	0	Igfbp4	0	-1.62908469	0.332	0.787	0
Gm16685	0	2.89682964	0.971	0.525	0	Plekha6	0	-1.85017667	0.304	0.757	0
Parp9	0	2.79426461	0.614	0.185	0	Slc34a1	0	-3.06134697	0.515	0.968	0
C4b	0	5.83021837	0.444	0.016	0	Gpr137b	0	-1.8447196	0.318	0.77	0
Xdh	0	3.13648765	0.643	0.218	0	Pcx	0	-1.7679321	0.354	0.805	0
Tmem140	0	2.46251908	0.681	0.263	0	Fmo2	0	-2.15164312	0.319	0.768	0
Tgtp2	0	7.56357361	0.421	0.003	0	Vmm1r20	0	-4.58968473	0.03	0.477	0
Nuak2	0	2.20395997	0.742	0.33	0	Isoc2a	0	-1.98249114	0.225	0.671	0
Bst2	0	4.8582817	0.437	0.026	0	Dlg2	0	-3.06158156	0.116	0.56	0
Rnf19b	0	3.39114427	0.541	0.131	0	Aspa	0	-1.40669191	0.474	0.916	0
Tmem252	0	3.09467	0.575	0.165	0	Sgk2	0	-1.75996969	0.301	0.743	0
Havcr1	0	5.96626886	0.419	0.014	0	Kl	0	-2.01601051	0.261	0.703	0
Ccl5	0	7.85449381	0.401	0.003	0	Kynu	0	-2.67849543	0.203	0.642	0
Pla2g16	0	3.63977776	0.472	0.074	0	Ugt3a1	0	-3.38095114	0.067	0.506	0
Traf1	0	3.19734486	0.501	0.105	0	Cyp2j11	0	-1.98711357	0.261	0.699	0
Zbtb16	0	6.86768363	0.405	0.011	0	Slc13a2	0	-2.39648429	0.2	0.637	0
Gm4070	0	7.3864026	0.395	0.004	0	Khk	0	-1.76570598	0.231	0.667	0
Pdgfrd	0	3.43807056	0.507	0.117	0	Ass1	0	-2.48624157	0.508	0.943	0
Clu	0	3.50734928	0.471	0.081	0	mt-Nd3	0	-2.67656347	0.101	0.535	0
Lcn2	0	5.77344213	0.4	0.011	0	G6pc	0	-2.2857033	0.177	0.609	0
Litaf	0	3.57136186	0.452	0.063	0	Xpnp1	0	-1.74411312	0.369	0.8	0
Zbp1	0	8.87753577	0.389	0.001	0	Tmem27	0	-1.56033981	0.439	0.87	0
Pfkfb	0	3.29454282	0.499	0.111	0	Fras1	0	-1.67479283	0.311	0.742	0
Tmcc3	0	2.70012604	0.736	0.35	0	Aldh9a1	0	-2.23796147	0.163	0.594	0
Msn	0	2.20818328	0.737	0.356	0	Lpar3	0	-2.22408903	0.175	0.605	0
Gm20696	0	5.11355803	0.404	0.025	0	Adhfe1	0	-1.67944787	0.401	0.83	0
Naaladl2	0	2.86199935	0.571	0.199	0	Acsms5	0	-2.69386988	0.148	0.577	0
Clec2d	0	2.37433106	0.766	0.395	0	Alpl	0	-2.24079184	0.235	0.662	0
Stat3	0	1.9337148	0.744	0.399	0	Lrpap1	0	-1.63289813	0.237	0.662	0
Ptbp3	0	1.84644808	0.737	0.438	0	Macrod2	0	-1.50159277	0.496	0.919	0
Map3k1	0	1.90014183	0.704	0.406	0	Slc5a11	0	-1.90556084	0.183	0.606	0
Aig1	0	1.72100319	0.76	0.463	0	Slc22a4	0	-1.73949959	0.279	0.702	0
Atp11a	0	1.60300266	0.846	0.565	0	Abat	0	-1.57073768	0.317	0.738	0
Slco3a1	0	1.9165593	0.921	0.671	0	Ksr2	0	-1.96753749	0.206	0.626	0

Gls	0	1.81000921	0.788	0.564	0	Cat	0	-1.64620731	0.429	0.849	0
Spp1	0	3.15291343	0.996	0.81	0	Slc7a9	0	-1.60319779	0.345	0.764	0
Vmp1	0	1.66764955	0.914	0.734	0	Slc2a2	0	-1.86217654	0.253	0.667	0
Immp2l	0	1.28074469	0.948	0.769	0	Sirt3	0	-1.5993918	0.29	0.703	0
Rock2	0	1.5148393	0.84	0.69	0	Gm10804	0	-1.75189888	0.219	0.631	0
Nfat5	0	1.39954062	0.888	0.761	0	Tef	0	-1.51696352	0.492	0.903	0
Ndr1	0	1.59244876	0.923	0.802	0	Hykk	0	-1.5262099	0.397	0.807	0
Fhod3	0	1.99992775	0.94	0.835	0	Baia2	0	-1.64910145	0.301	0.711	0
Chd9	0	3.54876859	0.998	0.924	0	Kmo	0	-2.59735991	0.09	0.499	0
Rbpms	0	1.80549765	0.97	0.9	0	Acvr2b	0	-2.73068219	0.134	0.541	0
Igfs5	0	1.39501763	0.968	0.906	0	Mertk	0	-1.38323398	0.411	0.818	0
Mast4	0	1.02686063	0.98	0.948	0	Slc35f3	0	-1.65277004	0.364	0.77	0
Syne2	0	1.1765612	0.968	0.943	0	Map2k6	0	-1.46873898	0.346	0.75	0
Neat1	0	1.5839645	0.997	0.983	0	Lipa	0	-2.13622343	0.325	0.729	0
Apoe	2.145E-307	2.49616945	0.604	0.23	5.087E-303	Prodh2	0	-2.44168107	0.117	0.52	0
S100a11	3.575E-307	2.25953211	0.612	0.249	8.479E-303	Cmb1	0	-2.23348623	0.145	0.548	0
Sash1	7.587E-307	1.72234816	0.794	0.603	1.8E-302	4931406C07Ri	0	-1.34455478	0.431	0.833	0
Tinagl1	6.484E-306	5.16933479	0.396	0.025	1.538E-301	Asl	0	-2.38868731	0.162	0.564	0
Cd52	1.45E-305	5.9967923	0.381	0.014	3.44E-301	Pik3c2g	0	-2.50477675	0.384	0.783	0
Rps20	1.836E-303	1.78619638	0.716	0.416	4.355E-299	Cyp4a10	0	-2.3628799	0.116	0.514	0
S100a10	1.84E-298	2.55283309	0.557	0.189	4.365E-294	Upb1	0	-1.5196992	0.346	0.744	0
Ngf	7.658E-297	6.46411372	0.363	0.005	1.817E-292	Ppargc1b	0	-1.42947243	0.339	0.733	0
Ifitm3	1.106E-292	5.21742552	0.38	0.022	2.623E-288	Ttc36	0	-1.34204604	0.39	0.783	0
Gsr	3.978E-292	1.73282784	0.706	0.437	9.435E-288	Slc16a9	0	-2.0621959	0.368	0.76	0
Camk2b	1.442E-291	5.29203813	0.405	0.045	3.421E-287	Cdk1	0	-2.56856142	0.126	0.518	0
Stat2	7.312E-291	2.32932343	0.573	0.213	1.734E-286	mt-Nd1	0	-1.53981351	0.491	0.883	0
Ubb	1.385E-288	1.69031516	0.731	0.458	3.284E-284	Dennd3	0	-1.48506365	0.305	0.697	0
Cd47	8.165E-287	2.19677658	0.587	0.235	1.937E-282	Igfbp5	0	-1.8367872	0.106	0.497	0
Tsc22d1	8.269E-285	1.68788786	0.702	0.414	1.961E-280	mt-Nd4l	0	-1.93454253	0.172	0.563	0
Fkbp5	6.748E-284	3.14647926	0.536	0.2	1.601E-279	Lin7a	0	-4.14735777	0.037	0.426	0
Pigr	7.882E-284	2.62967199	0.499	0.129	1.87E-279	Cryl1	0	-2.38411922	0.602	0.991	0
Cp	1.482E-279	3.60612604	0.503	0.157	3.516E-275	Smarca2	0	-1.68894201	0.504	0.893	0
Klf6	1.398E-278	2.9755509	0.497	0.14	3.316E-274	Paps2	0	-1.89685705	0.455	0.844	0
Oas12	4.603E-278	6.92485598	0.342	0.004	1.092E-273	Mgat3	0	-1.66453035	0.21	0.596	0
Samhd1	3.789E-275	3.19170277	0.471	0.117	9.887E-271	Cmah	0	-1.45951135	0.378	0.763	0
Ifi204	3.617E-270	8.63000786	0.33	0.001	8.579E-266	Limch1	0	-2.33938501	0.156	0.54	0
Clic1	3.086E-267	2.23769148	0.568	0.228	7.32E-263	Fam13a	0	-1.33650433	0.423	0.805	0
Ifi27	2.02E-266	2.92287857	0.449	0.094	4.791E-262	Dbp	0	-2.39208049	0.097	0.479	0
AC135964.2	3.62E-265	2.02944201	0.694	0.429	8.586E-261	Bphl	0	-1.38838454	0.366	0.748	0
Tpt1	1.736E-264	1.24644111	0.866	0.729	4.117E-260	Slc7a8	0	-2.19888257	0.272	0.653	0
Serpina10	4.035E-264	5.62580525	0.339	0.01	9.569E-260	Adtrp	0	-1.91999505	0.233	0.613	0
Ppp1r12a	1.149E-263	1.07537985	0.86	0.771	2.726E-259	Dnase1	0	-1.35555669	0.027	0.407	0
Psmc1	1.617E-263	3.37060857	0.417	0.072	3.836E-259	Folr1	0	-1.35585652	0.547	0.926	0
Myof	1.766E-260	2.35284996	0.539	0.196	4.189E-256	St8sia1	0	-1.30341545	0.437	0.816	0
Rps29	9.679E-259	1.68949832	0.727	0.467	2.296E-254	Tmem106a	0	-1.5120393	0.397	0.775	0
Psmb10	1.637E-256	5.25468111	0.34	0.017	3.884E-252	Cpeb3	0	-2.54736726	0.6	0.978	0
Gna13	2.228E-255	1.77607322	0.644	0.357	5.285E-251	Chd3	0	-1.4336898	0.447	0.825	0
Bspry	1.459E-254	2.92315476	0.445	0.103	3.461E-250	Gm32569	0	-2.04451034	0.15	0.526	0
Gdf15	2.418E-252	3.62792493	0.393	0.059	5.736E-248	Cyfp2	0	-1.88993746	0.221	0.597	0
Bcl2l1	1.426E-251	1.29759642	0.782	0.601	3.382E-247	mt-Nd2	0	-2.20423441	0.611	0.986	0
Sh3bgr13	3.831E-248	3.75685378	0.378	0.05	9.088E-244	Vmm1r18	0	-3.37390919	0.048	0.422	0
Parp11	1.167E-247	2.78978156	0.468	0.14	2.767E-243	Vegfa	0	-1.35680019	0.362	0.736	0
Ifi207	1.413E-247	9.71895621	0.307	0.001	3.352E-243	Gcdh	0	-1.73001256	0.181	0.553	0
Rps24	2.176E-246	1.73584214	0.671	0.39	5.162E-242	B3gat2	0	-1.30603308	0.473	0.845	0
Tmc1	2.277E-244	7.27656419	0.309	0.004	5.401E-240	Fpgs	0	-2.26089122	0.121	0.493	0
Eef1a1	8.464E-243	1.04174603	0.927	0.848	2.007E-238	Tmem178	0	-2.91717611	0.064	0.436	0
Sema3c	1.944E-242	1.63324828	0.733	0.514	4.61E-238	Slc9a3	0	-1.69647626	0.303	0.674	0
Slc41a2	1.5E-240	2.09362266	0.549	0.233	3.559E-236	Haao	0	-2.63597875	0.078	0.448	0
Ptpn13	8.52E-237	1.28683236	0.917	0.884	2.021E-232	Slc22a1	0	-1.23091056	0.47	0.839	0
Fbxw17	6.493E-232	2.93941627	0.406	0.083	1.54E-227	Slc22a6	0	-1.77550883	0.274	0.635	0
Dtx3l	1.397E-231	3.47728122	0.368	0.054	3.314E-227	Sufu	0	-1.26359888	0.429	0.787	0
Adgrg1	4.653E-230	2.20192091	0.517	0.2	1.104E-225	Pank1	0	-1.51323217	0.377	0.734	0
Col18a1	6.029E-230	2.51267766	0.476	0.158	1.43E-225	Slc5a2	0	-2.25926213	0.166	0.522	0
Gmids	1.434E-229	1.46061913	0.722	0.473	3.401E-225	Aacs	0	-2.61791931	0.113	0.468	0
Parp3	3.821E-226	2.53210734	0.456	0.141	9.062E-222	Gpd1	0	-2.11284986	0.115	0.469	0
Tmem176b	1.382E-225	1.24793631	0.786	0.633	3.278E-221	Gm31718	0	-2.19267442	0.193	0.546	0
Trim12a	1.781E-225	3.92069695	0.337	0.035	4.223E-221	Aass	0	-1.22386957	0.539	0.89	0
C13	6.667E-224	4.9266569	0.314	0.02	1.581E-219	Slc17a1	0	-1.20530938	0.605	0.954	0
Arhgap15	7.871E-224	2.60347504	0.475	0.162	1.867E-219	Nmrk1	0	-1.17217261	0.521	0.87	0
Parp12	5.742E-223	4.17702784	0.32	0.024	1.362E-218	Cubn	0	-2.04286351	0.644	0.992	0
Gm26632	1.047E-222	2.73136686	0.461	0.156	2.484E-218	Tnfaip8	0	-3.30975872	0.612	0.956	0
Nmi	1.198E-222	2.66137197	0.427	0.111	2.842E-218	Amn	0	-2.07310894	0.114	0.457	0
Fat1	1.312E-222	2.02185881	0.553	0.256	3.111E-218	Car14	0	-4.45988401	0.02	0.362	0
Lrch1	1.429E-221	1.82354351	0.606	0.326	3.388E-217	Srr	0	-1.17338693	0.511	0.851	0
Cdk6	8.889E-217	1.45938139	0.732	0.551	2.108E-212	Cyp51	0	-3.84217846	0.047	0.384	0
Parp10	4.188E-214	2.04722869	0.508	0.202	9.933E-210	Acsm2	0	-1.41912756	0.573	0.909	0
Patl2	2.401E-212	5.13137281	0.294	0.015	5.694E-208	Lrp4	0	-2.14977738	0.109	0.445	0
Utrn	3.463E-212	1.93304846	0.501	0.174	8.215E-208	Egf	0	-3.15562525	0.046	0.381	0
Lypd6b	5.697E-212	5.36227239	0.292	0.014	1.351E-207	Slc28a1	0	-2.46615219	0.086	0.42	0
Unc93b1	1.964E-209	3.69933609	0.325	0.037	4.658E-205	Cyp2a4	0	-3.8219099	0.03	0.362	0
Zfp361f	3.353E-209	1.68811216	0.653	0.414	7.952E-205	Chrna4	0	-3.79317252	0.042	0.373	0
Rtn4	3.959E-208	1.84217817	0.573	0.296	9.39E-204	Clec2h	0	-3.12197629	0.06	0.388	0
Cxcl9	6.9E-206	6.72616439	0.267	0.002	1.637E-201	D630029K05Ri	0	-4.22566502	0.02	0.348	0
Gm47283	2.536E-204	3.36565016	0.345	0.057	6.015E-200	Prir	0	-4.50152719	0.034	0.359	0
Trpm3	1.017E-202	2.63527261	0.484	0.209	2.413E-198	Slc22a23	0	-2.11117597	0.55	0.874	0
Trn10474O19R	5.778E-202	1.58051217	0.697	0.527	1.37E-197	Por	0	-1.36613444	0.552	0.875	0
Zc3hav1	3.139E-201	2.50354457	0.414	0.116	7.445E-197	Spp2	0	-3.62958274	0.038	0.36	0
Myliip	8.037E-201	1.67272364	0.625	0.398	1.906E-196	Pdzk1	0	-1.93078596	0.66	0.982	0
Susd1	1.486E-198	3.20110752	0.348	0.062	3.525E-194	Cit	0	-2.26815976	0.095	0.417	0
Tns3	4.836E-198	1.04593033	0.829	0.755	1.147E-193	Slco1a6	0	-1.69709092	0.593	0.914	0
Ttc39b	5.552E-198	2.87512034	0.381	0.091	1.317E-193	Akr1d1	0	-3.77666077	0.041	0.361	0
Sptlc2	3.15E-197	1.07773641	0.824	0.706	7.471E-193	Oxct1	0	-1.41001104	0.588	0.907	0
Abca1	1.215E-196	1.91524866	0.509	0.213	2.882E-192	Gm15318	0	-3.033331	0.054	0.373	0
Psap	2.139E-194	1.20354871	0.792	0.651	5.074E-190	Olfm4	0	-2.7903293	0.059	0.373	0
Zc2hca1	3.551E-192	1.62402001	0.63	0.411	8.422E-188	Phyhipl	0	-2.06157811	0.635	0.949	

Rps9	2.028E-186	1.56471776	0.627	0.387	4.81E-182	Gstt2	0	-1.18726082	0.594	0.896	0
Ifit3	3.168E-185	5.31890925	0.259	0.011	7.515E-181	Mtus1	0	-1.25489998	0.625	0.923	0
Nrg1	9.062E-185	1.23518113	0.857	0.741	2.149E-180	Fam151a	0	-3.23608666	0.038	0.334	0
C1s1	5.189E-184	6.35427324	0.249	0.006	1.231E-179	Akr1a1	0	-1.45008909	0.601	0.897	0
Sic44a3	4.653E-181	5.49407024	0.253	0.011	1.104E-176	Arhgap32	0	-1.21080683	0.602	0.895	0
Gm10073	1.408E-179	1.5368494	0.664	0.449	3.34E-175	Sic22a29	0	-5.69988571	0.007	0.294	0
Psd3	6.479E-178	4.09091659	0.28	0.03	1.537E-173	Mgil	0	-3.77220235	0.031	0.313	0
Sic38a2	1.44E-177	2.14904795	0.435	0.158	3.415E-173	Lactb2	0	-1.53625101	0.689	0.97	0
Vps54	3.899E-177	1.02313171	0.768	0.64	9.248E-173	Dock9	0	-1.21292608	0.639	0.916	0
Spat6	2.142E-175	1.42070587	0.67	0.481	5.08E-171	Afm	0	-3.1763203	0.036	0.31	0
Syt2	2.483E-175	5.82646169	0.242	0.008	5.89E-171	Sugt	0	-1.82227563	0.693	0.961	0
Cd9	7.605E-175	3.25320964	0.316	0.059	1.804E-170	Gcnt1	0	-1.12831472	0.656	0.922	0
Pax8	1.059E-172	1.24485307	0.866	0.816	2.512E-168	Rgl1	0	-1.41153827	0.706	0.968	0
Fmn1	1.41E-172	1.18742491	0.926	0.922	3.345E-168	Ces1e	0	-4.64085862	0.011	0.272	0
Folh1	2.63E-172	2.01939771	0.579	0.365	6.237E-168	Sic25a13	0	-1.13298912	0.699	0.951	0
Lgal3	3.203E-172	3.81927711	0.282	0.035	7.598E-168	Vmn1r19	0	-4.26568583	0.015	0.266	0
Fyb2	5.902E-172	1.80222838	0.578	0.347	1.4E-167	Prkag2	0	-1.09158456	0.675	0.925	0
Creb5	2.434E-170	4.28230234	0.244	0.011	5.774E-166	mt-Co2	0	-1.43807135	0.731	0.972	0
Birc3	2.821E-170	2.89428206	0.355	0.095	6.691E-166	mt-Co3	0	-1.18629913	0.742	0.982	0
H2-T22	1.648E-168	2.34709127	0.39	0.126	3.909E-164	Aldob	0	-1.46729299	0.757	0.989	0
Fmn12	5.235E-168	2.59065188	0.422	0.156	1.242E-163	P3h2	0	-1.68577829	0.757	0.989	0
Erap1	5.51E-168	2.35414776	0.383	0.118	1.307E-163	Cyp2d26	0	-3.67390299	0.018	0.245	0
Cxc1	1.232E-167	6.98396253	0.23	0.006	2.922E-163	mt-Atp6	0	-1.48719222	0.769	0.993	0
Xaf1	2.391E-167	5.36482451	0.236	0.009	5.67E-163	Apbb2	0	-1.22061032	0.751	0.971	0
Batf2	3.894E-167	6.15422304	0.23	0.006	9.237E-163	Plekha7	0	-1.11105402	0.756	0.972	0
Actb	4.804E-167	1.20156544	0.778	0.654	1.14E-162	Lrp2	0	-2.56265471	0.787	0.999	0
Steap2	6.367E-167	1.29195904	0.745	0.61	1.51E-162	Keg1	0	-1.15571171	0.775	0.986	0
Upp1	1.376E-166	5.43602713	0.233	0.007	3.263E-162	Fnip2	0	-1.7401128	0.783	0.986	0
Zfp697	6.013E-166	1.05283514	0.818	0.755	1.26E-161	Sic47a1	0	-1.01980659	0.796	0.986	0
Socs1	7.098E-166	8.48324738	0.22	0.001	1.683E-161	Fggy	0	-1.17975631	0.833	0.992	0
Esyf2	7.275E-165	1.13579556	0.723	0.604	1.726E-160	Ncoa7	0	-1.02543744	0.824	0.972	0
H2-DMb1	3.428E-164	3.3159401	0.285	0.042	8.13E-160	Nox4	0	-2.36665571	0.799	0.936	0
Zfp950	8.211E-164	1.09078224	0.736	0.602	1.947E-159	Rab11fip3	0	-1.04831637	0.854	0.99	0
AUO20206	3.336E-163	4.0000072	0.265	0.031	7.914E-159	Thrb	0	-1.03038939	0.833	0.968	0
Usp18	4.158E-163	5.86491771	0.227	0.006	9.864E-159	Kap	0	-2.17449007	0.903	1	0
Il18bp	9.411E-163	4.4290405	0.248	0.02	2.232E-158	Cms1	0	-1.13330461	0.903	0.997	0
Rpl32	2.169E-161	1.3918213	0.662	0.464	5.145E-157	Snx29	0	-1.33823272	0.942	0.999	0
Scin	3.402E-160	3.56703863	0.265	0.032	8.068E-155	Fut9	0	-1.95624303	0.952	1	0
Serinc3	5.41E-160	1.74392033	0.516	0.281	1.283E-155	Ptprd	0	-1.51913293	0.976	1	0
Ctss	5.734E-160	5.47530088	0.228	0.01	1.36E-155	Pde4d	0	-1.19516918	0.991	1	0
C1qa	6.827E-159	6.12750962	0.219	0.005	1.619E-154	Gm42418	0	-1.0393755	0.999	1	0
Ddx58	1.03E-158	1.69168708	0.486	0.232	2.444E-154	Sic3a1	5.78E-308	-1.17384025	0.542	0.862	1.371E-303
H2-DMa	7.428E-157	4.33554341	0.239	0.018	1.762E-152	Hmgcs1	7.751E-306	-1.6628938	0.262	0.632	1.839E-301
Dync1h1	8.63E-155	1.16373098	0.669	0.493	2.047E-150	Syp12	1.023E-303	-1.79478549	0.163	0.516	2.427E-299
Cadps2	2.387E-154	3.03690053	0.333	0.091	5.662E-150	Pp1fbp2	4.069E-303	-1.86446735	0.142	0.486	9.652E-299
Dexi	4.718E-154	2.34654671	0.371	0.123	1.119E-149	Nisnap1	2.332E-302	-1.2975023	0.367	0.753	5.531E-298
Tspo	2.029E-153	2.05214563	0.431	0.182	4.813E-149	Stard4	1.616E-298	-2.07719094	0.081	0.383	3.833E-294
Sectm1b	2.549E-153	2.14376497	0.391	0.136	6.047E-149	Mthfd1	1.89E-298	-1.41060298	0.307	0.688	4.484E-294
Pfn1	8.176E-153	1.76925959	0.497	0.253	1.939E-148	Ppara	3.719E-298	-1.00374989	0.637	0.935	8.82E-294
Rpl9-ps6	3.087E-152	1.59866089	0.567	0.344	7.322E-148	Acaa2	3.715E-295	-2.34485645	0.081	0.373	8.811E-291
Rps4x	3.291E-152	1.7460088	0.515	0.286	7.807E-148	Crocc	4.652E-295	-1.64694287	0.185	0.548	1.103E-290
Rpl18	8.302E-152	1.52601237	0.575	0.353	1.969E-147	Lyplal1	6.246E-295	-2.01770338	0.131	0.457	1.482E-290
Specc1	1.894E-151	2.78740017	0.308	0.069	4.493E-147	Ghr	3.094E-293	-1.45195597	0.982	1	7.338E-289
Cstb	3.178E-151	2.56717237	0.341	0.098	7.539E-147	B3galt5	1.417E-292	-1.31017462	0.302	0.697	3.361E-288
Vim	1.092E-149	5.38683158	0.215	0.009	2.591E-145	Peli2	2.484E-291	-1.38507028	0.344	0.712	5.891E-287
Nkain2	1.285E-149	1.75909149	0.614	0.45	3.047E-145	Bhmt2	1.959E-288	-1.9217343	0.148	0.479	4.646E-284
Mtss1l	1.06E-148	5.08102066	0.22	0.012	2.515E-144	Sic22a19	1.046E-287	-3.78015653	0.041	0.281	2.481E-283
Gm44148	1.575E-148	1.68285189	0.456	0.199	3.737E-144	Sic26a1	1.551E-286	-2.3707303	0.071	0.35	3.678E-282
Nfkb1	1.974E-148	1.537124	0.576	0.358	4.682E-144	Aqp11	7.384E-286	-2.2942956	0.074	0.356	1.751E-281
Misp	5.148E-148	2.98399858	0.29	0.06	1.221E-143	Sic2a5	1.55E-284	-2.09951178	0.098	0.401	3.676E-280
Samd4	7.1E-148	2.55943646	0.307	0.07	1.684E-143	Cyp2e1	6.166E-284	-2.69101458	0.036	0.272	1.462E-279
Cobl	1.078E-146	1.16739839	0.778	0.717	2.557E-142	F13b	1.281E-282	-2.89963501	0.029	0.255	3.038E-278
Sav1	1.603E-146	2.04840485	0.414	0.174	3.803E-142	Ngef	1.884E-281	-1.37089188	0.32	0.685	4.468E-277
Csf1	3.978E-146	6.25916287	0.206	0.006	9.436E-142	Vwce	7.18E-281	-2.50574109	0.055	0.314	1.703E-276
Icam1	7.378E-146	2.83364123	0.314	0.081	1.75E-141	Shmt1	4.98E-280	-2.04046667	0.09	0.386	1.181E-275
Cnot6	1.446E-145	1.09329231	0.716	0.565	3.429E-141	Gm29012	3.468E-279	-7.29364866	0.001	0.163	8.226E-275
Sectm1a	3.911E-145	4.20471127	0.229	0.02	9.276E-141	Aspdh	6.985E-279	-2.82719393	0.033	0.263	1.657E-274
Gab3	1.802E-144	3.99252614	0.24	0.028	4.273E-140	Fam214a	4.494E-278	-1.1461427	0.488	0.815	1.066E-273
H2-DMb2	1.535E-141	5.80820505	0.199	0.005	3.641E-137	Tcea3	4.876E-278	-1.54678452	0.208	0.565	1.157E-273
Acnat2	2.51E-141	2.50408264	0.338	0.105	9.52E-137	Aqp1	4.348E-275	-1.37684241	0.198	0.565	1.031E-270
Apobec3	7.879E-141	5.97436518	0.197	0.004	1.869E-136	Gm45083	2.651E-274	-2.06574187	0.094	0.387	6.287E-270
Pnrc1	1.543E-140	2.31628251	0.378	0.143	3.661E-136	Sic22a7	1.099E-273	-4.3453071	0.014	0.205	2.606E-269
Wipf1	4.062E-139	2.26164322	0.37	0.132	9.635E-135	Nkain1	4.186E-270	-3.51484003	0.022	0.228	9.928E-266
Ilrf2	1.49E-137	1.07243507	0.691	0.547	3.533E-133	Aco1	4.636E-270	-1.11787144	0.506	0.832	1.1E-265
Mkl1	4.966E-137	5.19670325	0.197	0.006	1.178E-132	P1cb1	1.894E-269	-1.09142737	0.809	0.878	4.493E-265
Tnfrsf12a	4.144E-135	3.75460121	0.233	0.03	9.829E-131	Ece1	2.057E-269	-1.94355816	0.123	0.431	4.88E-265
Rps8	3.028E-134	1.13470107	0.693	0.541	7.181E-130	Prkc	9.453E-269	-1.22020481	0.418	0.767	2.242E-264
Gm15347	2.219E-133	3.01206186	0.323	0.105	5.263E-129	Nos1ap	5.673E-268	-1.20670449	0.388	0.744	1.345E-263
AC133498.1	1.622E-132	6.76173291	0.188	0.005	3.847E-128	Snx8	8.985E-268	-1.27433208	0.382	0.738	2.131E-263
Adgrg3	8.193E-132	4.3350469	0.198	0.01	1.943E-127	Insig1	1.668E-267	-3.35729457	0.021	0.224	3.957E-263
Ly75	2.541E-131	6.61128652	0.183	0.003	6.028E-127	Mep1a	2.534E-265	-1.31772096	0.439	0.764	6.011E-261
Rps27a	2.591E-130	1.35989008	0.585	0.39	6.147E-126	Bdh2	6.996E-265	-1.24908961	0.367	0.729	1.659E-260
Cst3	6.448E-128	1.85157911	0.439	0.219	1.529E-123	Enpp3	8.18E-265	-1.51448596	0.253	0.602	1.94E-260
C1qb	3.818E-127	5.24801993	0.19	0.01	9.056E-123	Agxt2	8.215E-264	-1.34830915	0.317	0.672	1.948E-259
Dgkg	2.007E-126	1.49628251	0.544	0.344	4.762E-122	Trpkb	5.681E-263	-1.41907193	0.297	0.648	1.348E-258
Tbl1x	2.458E-126	1.03235334	0.676	0.525	5.83E-122	Tbxas1	7.658E-263	-2.37487216	0.106	0.389	1.816E-258
Clic4	7.367E-126	1.01067709	0.793	0.686	1.747E-121	Cyp2c23	1.171E-261	-2.8579732	0.036	0.259	2.776E-257
Pxk	1.233E-125	1.29681907	0.547	0.348							

Oasl1	1.956E-120	5.1468122	0.177	0.006	4.639E-116	Pxmp2	1.431E-249	-1.99188431	0.104	0.386	3.394E-245
Rnf180	3.355E-120	3.9645835	0.208	0.026	7.958E-116	Gsta2	6.133E-247	-1.7379763	0.149	0.456	1.455E-242
Plekhm3	3.999E-120	1.5146712	0.442	0.219	9.486E-116	Erlin1	7.375E-244	-1.23902411	0.372	0.713	1.749E-239
Rbl1	4.079E-120	2.21833322	0.32	0.109	9.675E-116	Ttr	1.302E-243	-2.9951731	0.04	0.257	3.089E-239
Actn1	4.729E-119	2.20878198	0.364	0.152	1.122E-114	Acss2	2.904E-243	-1.16405789	0.561	0.833	6.887E-239
Lgals3bp	1.11E-118	3.213995	0.22	0.033	2.634E-114	Ctch	4.023E-241	-1.59601551	0.191	0.511	9.542E-237
Ccl28	2.112E-118	5.67483389	0.193	0.018	5.01E-114	Cdh4	1.042E-239	-3.00149843	0.037	0.248	2.472E-235
Gm11808	5.141E-118	1.16226685	0.635	0.472	1.219E-113	Acadm	2.203E-239	-1.51600053	0.354	0.674	5.226E-235
Arhgap8	5.63E-118	4.82078008	0.18	0.01	1.335E-113	March6	5.409E-239	-1.01845073	0.546	0.829	1.283E-234
Grn	3.187E-117	1.94141654	0.379	0.169	7.56E-113	Slc22a2	1.862E-237	-1.2803507	0.275	0.618	4.418E-233
Mcc	4.589E-116	3.34390743	0.304	0.106	1.089E-111	Akr7a5	1.928E-237	-1.52828313	0.181	0.499	4.572E-233
Irf7	4.651E-116	4.94959595	0.174	0.008	1.103E-111	Add3	5.941E-237	-1.2130946	0.367	0.707	1.409E-232
Piezo1	5.074E-116	1.42806629	0.508	0.32	1.204E-111	Paqr9	2.077E-236	-1.93666879	0.092	0.359	4.926E-232
Rad51b	7.43E-116	2.74869016	0.269	0.071	1.762E-111	Sardh	2.984E-236	-2.07208438	0.078	0.331	7.077E-232
Camk2d	2.572E-115	1.16058469	0.64	0.482	6.101E-111	Slc34a3	5.732E-236	-4.53454325	0.007	0.163	1.36E-231
Gm26624	1.885E-114	1.33483115	0.52	0.327	4.471E-110	mt-Atp8	1.994E-235	-2.00161256	0.081	0.339	4.73E-231
Serpincb9	9.796E-114	4.8674307	0.171	0.008	2.323E-109	Dhrs3	1.411E-234	-1.25325341	0.278	0.628	3.348E-230
Rpl27a	1.452E-113	1.40952239	0.55	0.368	3.443E-109	Abhd18	3.366E-234	-1.33331777	0.287	0.619	7.984E-230
Trim12c	2.261E-112	2.65006258	0.246	0.056	5.364E-108	Sfxn2	4.043E-234	-1.50711828	0.189	0.506	9.591E-230
Rhob	3.638E-112	3.20605847	0.23	0.047	8.628E-108	D630023F18Ri	5.96E-234	-4.50383543	0.011	0.172	1.414E-229
Dysf	1.193E-111	4.93512745	0.171	0.009	2.829E-107	Cyp2j7	1.691E-233	-2.21730023	0.072	0.317	4.01E-229
Idnk	3.134E-111	1.98143419	0.336	0.132	7.435E-107	Tmem64	3.3E-233	-1.99224061	0.108	0.38	7.828E-229
Zc3h7a	3.652E-111	1.04008322	0.627	0.482	8.663E-107	Slc22a12	4.573E-231	-1.18378518	0.275	0.627	1.085E-226
Ggfr2	4.497E-110	1.01989039	0.813	0.788	1.067E-105	Ppm1l	5.334E-228	-1.63130442	0.227	0.536	1.265E-232
Fkbp1a	4.546E-110	1.64782311	0.411	0.208	1.078E-105	Bcl11b	2.013E-227	-1.42404891	0.233	0.557	4.775E-223
Rgs7	1.19E-109	5.96977706	0.168	0.01	2.824E-105	Acs1l	2.119E-227	-1.26413042	0.361	0.686	5.026E-223
Plgrkt	1.492E-108	1.98078411	0.341	0.14	3.539E-104	Gm10801	7.973E-227	-6.0835971	0.002	0.136	1.891E-222
Nt5e	3.002E-107	1.64732292	0.472	0.282	7.122E-103	Dgat2	1.416E-225	-1.66460309	0.152	0.445	3.359E-221
Anxa2	4.927E-107	3.91281304	0.179	0.017	1.169E-102	Mcrip2	4.249E-225	-1.94217546	0.075	0.321	1.008E-220
Mt1	5.951E-107	1.5194406	0.439	0.233	1.411E-102	Sh3bp5	7.074E-224	-1.38525066	0.252	0.571	1.678E-219
Vps13c	1.223E-106	1.4989727	0.406	0.197	2.901E-102	Fmnl1	2.482E-223	-1.61195931	0.151	0.445	5.887E-219
Adams1	1.668E-106	1.89350909	0.403	0.202	3.955E-102	Tfcp2	3.639E-222	-1.26097375	0.365	0.687	8.632E-218
Dcdc2a	2.317E-106	2.43021724	0.299	0.106	5.497E-102	Cryx12	1.046E-221	-1.17586487	0.386	0.706	2.481E-217
B4galt1	2.352E-106	1.42968912	0.518	0.345	5.579E-102	Wnt5b	3.824E-221	-1.96662259	0.093	0.349	9.07E-217
Pycard	3.93E-105	3.31158616	0.199	0.031	9.322E-101	Grtp1	1.528E-220	-1.47908494	0.205	0.514	3.624E-216
Hip1r	1.981E-104	1.47909778	0.433	0.239	4.7E-100	ltptr2	9.609E-220	-2.42210252	0.365	0.58	2.279E-215
Laptm4a	3.705E-104	1.34835278	0.498	0.315	8.788E-100	Ugt2b38	1.888E-219	-1.41666182	0.149	0.449	4.478E-215
Lgals1	6.877E-104	1.99029617	0.358	0.167	1.631E-99	Aco1	1.605E-217	-1.18825012	0.37	0.687	3.808E-213
Txn1	7.791E-104	1.05467739	0.61	0.458	1.848E-99	Acy1	8.463E-217	-2.62089227	0.061	0.283	2.007E-212
Fau	1.307E-103	1.17567737	0.583	0.417	3.099E-99	1110019D14Ri	2.221E-213	-1.23117989	0.325	0.641	5.268E-209
Cxcl16	2.385E-103	1.80956036	0.327	0.125	5.657E-99	Dnajc12	7.254E-212	-1.49269447	0.171	0.467	1.721E-207
Tifa	4.829E-103	2.77595133	0.238	0.06	1.1455E-98	Pm20d1	2.575E-211	-2.35339375	0.048	0.255	6.108E-207
Nfkbia	6.538E-103	2.43356778	0.268	0.082	1.5507E-98	Tmem174	1.076E-209	-1.07695964	0.362	0.698	2.551E-205
Ifi35	8.027E-103	2.79887207	0.214	0.041	1.9039E-98	Sel1i3	2.128E-209	-1.12273221	0.347	0.673	5.047E-205
5730559C18R	9.607E-103	2.34518071	0.268	0.082	2.788E-98	Glul	1.45E-208	-1.53823042	0.325	0.624	3.439E-204
Dync1i2	3.045E-102	1.09679171	0.58	0.425	7.2235E-98	Mgam	1.615E-208	-1.52834673	0.154	0.441	3.83E-204
Gm14964	8.363E-102	2.50431632	0.241	0.06	1.9836E-97	Mtor	1.094E-207	-1.05304953	0.548	0.806	2.594E-203
Gm20275	5.68E-101	1.88887594	0.38	0.196	1.3472E-96	Cyp2d12	3.777E-207	-4.60532578	0.004	0.136	8.959E-203
Tgtp1	1.171E-100	6.2668658	0.144	0.002	2.7782E-96	Pdk2	5.921E-206	-1.52954642	0.174	0.463	1.404E-201
Rplp0	1.315E-100	1.18678401	0.605	0.459	3.1193E-96	B4galnt3	1.802E-205	-1.24373777	0.279	0.597	4.275E-201
Hdac7	1.386E-100	2.53662956	0.238	0.061	3.2882E-96	Flvcr2	3.789E-205	-1.88500009	0.121	0.379	8.987E-201
Cdhl1	3.114E-100	1.37888778	0.493	0.313	7.3871E-96	L2hdgh	5.353E-205	-1.35039479	0.218	0.523	1.27E-200
Gm13963	3.15E-100	2.17038296	0.352	0.168	7.4722E-96	Slc25a10	1.971E-203	-1.3789032	0.186	0.485	4.676E-199
Agrn	6.911E-100	1.36692874	0.494	0.323	1.6392E-95	Acot3	4.714E-203	-4.97786335	0.003	0.13	1.118E-198
Trim47	1.011E-99	2.41477495	0.25	0.071	2.399E-95	Atxn1	2.403E-202	-1.11443518	0.929	0.985	5.7E-198
Sp140	1.326E-99	4.30779834	0.163	0.014	3.1448E-95	Atxn7l2	6.334E-202	-2.30018907	0.053	0.259	1.502E-197
Jazf1	1.619E-99	4.17843677	0.164	0.014	3.8392E-95	Adgrb3	1.378E-201	-3.68546859	0.053	0.252	3.268E-197
Relb	1.1029E-98	3.65791989	0.172	0.019	2.6159E-94	Slc9a8	2.47E-201	-1.63826773	0.349	0.635	5.859E-197
Fas	1.1344E-98	2.48776027	0.249	0.072	2.6907E-94	Aadac	2.838E-201	-1.58080059	0.123	0.388	6.731E-197
Bcl3	1.4968E-98	3.48767588	0.182	0.025	3.5504E-94	Slc35f1	1.607E-200	-2.74642716	0.035	0.219	3.811E-196
Rpl39	1.6532E-98	1.65573777	0.388	0.195	3.9212E-94	Inmt	1.738E-200	-2.50824975	0.036	0.222	4.122E-196
Tyrobp	5.3676E-98	5.59167937	0.145	0.005	1.2731E-93	Scd1	1.929E-200	-2.7502111	0.047	0.243	4.576E-196
Rtp4	2.6982E-97	4.58242042	0.152	0.009	6.3998E-93	Gm4450	5.832E-200	-1.78628357	0.124	0.382	1.383E-195
Gm9844	7.3094E-97	5.08828286	0.148	0.007	1.7337E-92	Hadh	6.192E-200	-1.28908753	0.216	0.521	1.469E-195
Hprt	7.8333E-97	1.81916465	0.333	0.145	1.858E-92	Thns12	2.285E-198	-1.28007668	0.229	0.536	5.419E-194
Frk	4.3426E-95	1.51012427	0.374	0.177	1.03E-90	Frem2	2.704E-198	-2.06581027	0.073	0.296	6.415E-194
Nipal2	5.195E-95	5.00391817	0.144	0.006	1.2322E-90	Glb1	5.646E-198	-1.03608738	0.436	0.744	1.339E-193
Cdkn1a	1.3021E-94	4.74751878	0.146	0.007	3.0885E-90	AC140300.3	2.134E-197	-4.26224898	0.007	0.14	5.062E-193
Itgbb1	2.2547E-94	2.74494171	0.238	0.07	5.3478E-90	Ttc7	3.429E-197	-1.18366898	0.313	0.619	8.132E-193
Ptma	6.3547E-94	1.09657905	0.606	0.471	1.5073E-89	Ttc7b	1.049E-196	-1.0533871	0.399	0.708	2.488E-192
Smad2	9.8905E-94	1.2079077	0.54	0.39	2.3459E-89	Notum	1.493E-196	-2.97740892	0.022	0.185	3.542E-192
Sema6a	2.4162E-93	1.2981025	0.56	0.408	5.7311E-89	Gm36011	1.686E-196	-2.63061082	0.024	0.189	3.999E-192
Eda	5.4788E-93	2.23205393	0.252	0.078	1.2995E-88	Amacr	2.242E-196	-1.58729453	0.128	0.39	5.318E-192
Ccl8	1.4721E-92	8.12011821	0.13	0	3.4917E-88	Ascc1	8.098E-193	-1.31429632	0.228	0.527	1.921E-188
Myh9	1.6025E-92	1.07254605	0.616	0.496	3.8009E-88	Nhs12	2.916E-191	-1.04411093	0.431	0.729	6.915E-187
Rpl23	2.8694E-92	1.08395937	0.594	0.45	6.806E-88	Ggnbp1	2.936E-190	-1.90739454	0.08	0.303	6.964E-186
Syt14	1.1636E-91	1.07159527	0.551	0.396	2.76E-87	Kcnc2	7.875E-190	-1.81763877	0.117	0.363	1.868E-185
Stxbp1	2.6843E-91	5.36596538	0.138	0.005	6.3669E-87	Slc23a1	8.984E-190	-1.15584519	0.434	0.729	2.131E-185
Gpr39	5.4276E-91	4.20133586	0.148	0.011	1.2874E-86	Rnf212b	7.383E-189	-4.52508809	0.009	0.141	1.751E-184
Fam49b	1.1988E-90	1.22121446	0.489	0.32	2.8434E-86	Mett17b	3.541E-185	-1.2283262	0.184	0.474	8.4E-181
Tpm4	1.4705E-90	2.50016823	0.226	0.062	3.488E-86	Mccc2	1.639E-183	-1.25192461	0.225	0.515	3.887E-179
Eif1a	1.6558E-90	1.87436617	0.309	0.131	3.9274E-86	Lpl	1.186E-182	-1.36313768	0.173	0.447	2.813E-178
Prickle2	3.079										

Rps14	7.8557E-86	1.36330334	0.463	0.302	1.8633E-81	Abhd14b	1.537E-172	-1.37875201	0.18	0.446	3.646E-168
Mcl1	8.8956E-86	1.37787233	0.416	0.24	2.1099E-81	Nsdhl	3.089E-172	-1.6581143	0.121	0.357	7.328E-168
Trp53inp1	9.1458E-86	1.4778531	0.414	0.244	2.1693E-81	Bckdha	8.327E-172	-1.17027185	0.261	0.551	1.975E-167
Tor3a	1.0747E-85	2.56204891	0.21	0.054	2.5491E-81	Tmem116	1.309E-171	-1.0388564	0.402	0.69	3.105E-167
Rps27rt	1.3605E-85	1.04637734	0.601	0.473	3.227E-81	Csad	8.278E-171	-1.29259111	0.276	0.556	1.963E-166
Fcer1g	2.2331E-85	4.28528649	0.143	0.012	5.2968E-81	Mogat1	2.731E-170	-1.74460343	0.113	0.34	6.478E-166
Tagln2	3.4104E-85	1.81216705	0.294	0.121	8.0891E-81	Etv5	3.338E-170	-1.832241	0.098	0.318	7.917E-166
Tshr	6.6654E-85	5.5371929	0.142	0.013	1.581E-80	Acs1	1.365E-169	-1.94684072	0.131	0.361	3.237E-165
Anxa5	1.4117E-84	2.24555656	0.239	0.077	3.3484E-80	Aadat	1.975E-169	-1.94391381	0.248	0.529	4.684E-165
Rnf217	1.5729E-84	1.23487375	0.49	0.331	3.7308E-80	Esrra	2.078E-169	-1.13336312	0.248	0.539	4.929E-165
Rpl24	1.835E-84	1.34970612	0.454	0.29	4.3525E-80	Sema4g	1.822E-168	-2.02057158	0.054	0.24	4.322E-164
Gm32857	4.4092E-84	3.23086763	0.174	0.032	1.0458E-79	Zfp395	2.228E-168	-1.45590207	0.124	0.365	5.284E-164
Ywhah	5.1436E-84	2.19710952	0.245	0.083	1.22E-79	Cyp4a14	3.288E-168	-1.0645609	0.071	0.276	7.799E-164
Ifih4	7.1804E-84	5.91437104	0.123	0.002	1.7031E-79	Galm	6.865E-168	-1.31081804	0.246	0.523	1.628E-163
Rpsa	9.467E-84	1.08354904	0.603	0.487	2.2455E-79	Gm13412	1.585E-167	-3.77972652	0.009	0.128	3.76E-163
Gm35188	1.6223E-83	1.50828717	0.468	0.322	3.8479E-79	Usp2	5.467E-167	-1.09676964	0.282	0.571	1.297E-162
G3bp2	3.2815E-82	1.31717729	0.445	0.285	7.7834E-78	Dpys	1.099E-166	-5.0903165	0.004	0.11	2.070E-162
Mpeg1	3.3016E-82	6.42724224	0.119	0.002	7.8312E-78	Gm31600	1.279E-166	-3.63964438	0.01	0.133	3.034E-162
Alpk1	3.5783E-82	2.0496007	0.25	0.087	8.4873E-78	Gm16004	5.514E-166	-5.06949238	0.004	0.11	1.308E-161
Mvp	4.7405E-82	2.08940735	0.237	0.077	1.1244E-77	Ccs	1.726E-165	-1.07855061	0.314	0.598	4.093E-161
Selenow	4.9057E-82	2.37770465	0.204	0.053	1.1636E-77	Dpf3	1.822E-165	-1.06589176	0.306	0.603	4.321E-161
Nampt	1.0251E-81	1.05260187	0.552	0.418	2.4315E-77	Susd3	1.002E-164	-1.39416048	0.151	0.4	2.378E-160
Gm19684	4.2846E-81	8.10818772	0.115	0	1.0163E-76	Tmem219	1.275E-164	-1.3544371	0.179	0.438	3.024E-160
4930523C07R	7.6591E-81	4.54003361	0.128	0.007	1.8167E-76	Gm2a	5.014E-163	-1.22064838	0.196	0.467	1.189E-158
Ptpn14	8.4116E-81	2.42870396	0.214	0.063	1.9951E-76	Gm12962	1.108E-162	-2.68093867	0.044	0.211	2.628E-158
Spns2	1.3164E-80	1.7278504	0.348	0.18	3.1223E-76	C1qtntf3	1.3E-162	-2.40620158	0.037	0.198	3.084E-158
Zbed3	2.1181E-80	1.77049093	0.349	0.185	5.024E-76	Fam155a	1.708E-161	-2.76870289	0.017	0.151	4.051E-157
Dnm3	3.0374E-80	2.39073188	0.24	0.082	7.2043E-76	Bdh1	1.693E-160	-2.24222305	0.076	0.27	4.017E-156
Wdr89	6.8923E-80	1.01199807	0.609	0.493	1.6348E-75	Btbd11	6.116E-160	-1.91279159	0.083	0.284	1.451E-155
Hspb1	1.4321E-79	4.70379657	0.13	0.009	3.3968E-75	Prom1	2.599E-159	-1.09636267	0.312	0.593	6.164E-155
C130026I21Ri	2.467E-79	2.74272262	0.194	0.05	5.8516E-75	Nepn	3.218E-159	-4.7210648	0.004	0.106	7.634E-155
Cep85	5.5586E-79	1.28249614	0.67	0.635	1.3184E-74	Ac166995.1	6.821E-158	-2.37635656	0.033	0.186	1.618E-153
Iqgap1	7.1667E-79	1.25236777	0.45	0.289	1.6999E-74	Lpin1	4.518E-157	-1.24697351	0.193	0.451	1.072E-152
H2-M3	1.312E-78	5.52235229	0.118	0.003	3.1118E-74	Dcxr	4.97E-157	-1.83060152	0.071	0.263	1.179E-152
Pomp	1.5483E-78	1.81283776	0.3	0.137	3.6725E-74	Acmsd	1.136E-156	-1.46365586	0.131	0.367	2.694E-152
Cds1	2.4342E-78	1.59723857	0.323	0.156	5.7737E-74	Abcc9	2.115E-156	-3.32870552	0.015	0.141	5.017E-152
Helz2	4.5083E-78	3.66248669	0.133	0.012	1.0693E-73	Mccc1	8.819E-156	-1.12109183	0.25	0.525	2.092E-151
Fbxl2	9.9799E-78	1.67659971	0.316	0.152	2.3671E-73	Sbk1	1.842E-155	-1.58459359	0.107	0.323	4.369E-151
Sdk1	1.8751E-77	3.13767592	0.201	0.058	4.4476E-73	Cyp2j9	2.588E-155	-1.05533311	0.279	0.56	6.137E-151
Tubb5	2.5833E-77	2.62650463	0.195	0.052	6.1274E-73	Phtf2	4.502E-154	-1.21091297	0.228	0.491	1.068E-149
Plk3	3.0458E-77	2.64518092	0.186	0.045	7.2242E-73	Dcl3	8.669E-154	-1.33483899	0.141	0.376	2.056E-149
Rasa4	3.0756E-77	4.27568057	0.127	0.009	7.2949E-73	Gm28807	7.239E-153	-2.62621342	0.028	0.172	1.717E-148
Sept11	5.1293E-77	1.11787053	0.559	0.445	1.2166E-72	Slc5a4a	7.803E-153	-2.24187602	0.042	0.203	1.851E-148
Ptpn22	5.1709E-77	3.05663284	0.186	0.046	1.2265E-72	Abhd3	2.087E-152	-1.35985248	0.162	0.404	4.95E-148
Wfdc2	5.5894E-77	1.93735651	0.291	0.133	1.3258E-72	Hoxb3os	2.159E-152	-1.16453701	0.218	0.481	5.12E-148
Fxyd5	9.3324E-77	5.18646094	0.118	0.005	2.2136E-72	Dixd1c	5.937E-152	-2.0322307	0.055	0.228	1.408E-147
Gm10076	1.1436E-76	2.44359756	0.209	0.064	2.7125E-72	Wdr91	7.066E-152	-1.21301052	0.208	0.465	1.676E-147
Mgst1	1.5307E-76	1.92453944	0.256	0.098	3.6306E-72	Prickle1	3.656E-151	-1.11823806	0.24	0.505	8.672E-147
Nnmt	2.1801E-76	7.60311995	0.11	0.001	5.1709E-72	Tmem206	5.501E-151	-1.74948229	0.073	0.263	1.305E-146
Crybg1	2.8408E-76	1.57029196	0.308	0.142	6.738E-72	Acad11	6.127E-151	-1.06828109	0.311	0.586	1.453E-146
Heph	8.7151E-76	1.32631231	0.435	0.278	2.0671E-71	R3hdml	5.043E-150	-1.96829126	0.03	0.177	1.196E-145
Rpl11	1.3851E-75	1.36210142	0.434	0.281	3.2854E-71	CT010465.1	2.71E-149	-2.50575419	0.028	0.169	6.427E-145
Rps11	2.043E-75	1.38497107	0.418	0.262	4.8457E-71	Pbld2	3.21E-149	-1.62450358	0.095	0.3	7.614E-145
Coro1a	4.9474E-75	6.29190588	0.112	0.003	1.1735E-70	Slc37a4	1.02E-148	-1.46080197	0.109	0.322	2.42E-144
Isg15	7.7046E-75	5.13600751	0.115	0.004	1.8275E-70	Abcc6	1.274E-148	-1.77871169	0.068	0.251	3.023E-144
Epsti1	9.3851E-75	4.72214485	0.119	0.007	2.2261E-70	Acot13	1.142E-147	-1.02014596	0.265	0.54	2.71E-143
Gm9951	2.3781E-74	2.22095351	0.208	0.063	5.6406E-70	Srcin1	1.372E-147	-1.04111865	0.309	0.584	3.253E-143
Eti4	3.1296E-74	1.2014242	0.57	0.437	7.4231E-70	Ncam2	3.385E-147	-2.00737835	0.076	0.261	8.029E-143
Gm45871	1.3534E-73	1.77228289	0.282	0.125	3.2101E-69	Car4	1.025E-143	-1.85457194	0.078	0.263	2.431E-139
Rpl10a	1.4803E-73	1.20180676	0.473	0.327	3.5111E-69	Fn3k	5.756E-143	-2.40012331	0.031	0.173	1.365E-138
Ifih1	3.3629E-73	1.80777453	0.27	0.113	7.9764E-69	Lurap1l	6.956E-143	-1.32429469	0.151	0.379	1.65E-138
Irf9	4.7771E-73	2.53401035	0.178	0.044	1.1331E-68	Gtf2h2	3.476E-142	-1.19478552	0.207	0.456	8.245E-138
Osrmr	6.6443E-73	5.0540544	0.112	0.004	1.576E-68	Plscr4	6.553E-142	-1.29472661	0.197	0.439	1.554E-137
Trim30d	1.0392E-72	4.17400269	0.123	0.01	2.4648E-68	Slc9a2	4.76E-140	-1.3328457	0.141	0.364	1.129E-135
Tubb2a	1.5E-72	2.77270181	0.164	0.035	3.5579E-68	Praq7	1.182E-139	-2.0687553	0.063	0.233	2.804E-135
Twsg1	1.5417E-72	2.04608622	0.239	0.09	3.6568E-68	L3hyphd	5.795E-139	-1.50748416	0.098	0.297	1.374E-134
Straf6l	1.7824E-72	2.29594155	0.206	0.065	4.2276E-68	Epb41h3	5.92E-139	-1.6300411	0.203	0.431	1.404E-134
1310001H17R	2.8323E-72	1.56481319	0.337	0.179	6.7179E-68	Aldh7a1	8.335E-139	-1.08587156	0.277	0.536	1.977E-134
Tcea9	3.1674E-72	2.45495708	0.192	0.055	7.5127E-68	Unc13c	8.372E-139	-1.54519129	0.153	0.372	1.986E-134
C143qc	4.3995E-72	5.49681209	0.11	0.004	1.0435E-67	Tkfc	8.592E-139	-1.10962123	0.193	0.441	2.038E-134
Zcchc6	4.6384E-72	1.23875559	0.438	0.294	1.1002E-67	Ech1	2.121E-138	-1.14363615	0.21	0.457	5.031E-134
Rack1	1.0373E-71	1.18048701	0.48	0.339	2.4603E-67	Hnf1aas1	1.41E-137	-1.00833572	0.529	0.747	3.345E-133
Gm26804	1.6828E-71	1.17383311	0.565	0.48	3.9915E-67	Dnajc19	2.154E-137	-1.2351979	0.232	0.476	5.109E-133
Map3k14	1.8844E-71	1.18515771	0.455	0.307	4.4697E-67	Ceacam1	1.731E-136	-2.32950127	0.03	0.166	4.106E-132
Brip1	3.6105E-71	2.35164498	0.185	0.05	8.5637E-67	Gpam	1.885E-136	-1.38076341	0.147	0.367	4.472E-132
Birc2	4.3405E-71	1.26683559	0.445	0.305	1.0295E-66	Gm16157	2.865E-136	-3.21273147	0.013	0.122	6.795E-132
Rcbtb1	5.2217E-71	1.33488029	0.411	0.26	1.2385E-66	Bckdhb	5.33E-136	-1.13517452	0.272	0.516	1.264E-131
Aida	5.4948E-71	1.95784263	0.239	0.091	1.3033E-66	Nxpe3	1.051E-135	-1.49581358	0.146	0.361	2.493E-131
Rsad2	1.4896E-70	4.37718248	0.112	0.006	5.3331E-66	Cxcl12	3.228E-135	-2.14665079	0.023	0.149	7.656E-131
Tpst1	2.1314E-70	4.52350897	0.116	0.008	5.0554E-66	Cyp4b1	2.395E-134	-1.23566933	0.524	0.696	5.68E-130
Ctse	2.6999E-70	3.45874829	0.134	0.018	6.4039E-66	Zfp101	1.836E-133	-1.33200914	0.144	0.362	4.355E-129
1110038F14R	3.5946E-70	2.07709275	0.214	0.072	8.5261E-66	Gm34777	1.97E-133	-1.55003912	0.087	0.274	4.672E-129

Dlgap4	1.756E-67	1.71354815	0.298	0.149	4.165E-63	Fam228b	1.306E-125	-2.33391554	0.029	0.156	3.097E-121
1700016C15R	1.8466E-67	1.02208462	0.487	0.342	4.3801E-63	Asph	1.317E-125	-1.01828902	0.267	0.514	3.123E-121
Pdgbf	3.1598E-67	1.90672743	0.274	0.127	7.4946E-63	Gm44386	1.962E-125	-1.98350717	0.046	0.192	4.653E-121
Steap1	3.1835E-67	2.85414788	0.149	0.03	7.5509E-63	Vstm5	3.95E-124	-1.32057969	0.194	0.415	9.37E-120
Rpl7	7.0068E-67	1.21204992	0.473	0.339	1.6619E-62	Fgfr3	1.933E-123	-1.340765	0.117	0.313	4.585E-119
Fabp7	7.0526E-67	3.55361733	0.125	0.016	1.6728E-62	Elmod3	4.707E-123	-1.42961331	0.111	0.302	1.116E-118
Sema4b	9.6864E-67	1.38705831	0.359	0.207	2.2975E-62	Uroc1	9.507E-123	-2.72536282	0.035	0.165	2.255E-118
Cttnbpb2nl	1.3007E-66	1.6413647	0.29	0.141	3.0852E-62	Ccdc62	1.03E-122	-1.29407479	0.124	0.325	2.443E-118
Rasl11b	1.5916E-66	3.55896452	0.128	0.018	3.7751E-62	Adra1a	7.062E-122	-1.1555251	0.279	0.512	1.675E-117
Shtn1	2.5364E-66	1.23769436	0.423	0.28	6.016E-62	Gjb2	8.285E-122	-1.54133851	0.081	0.252	1.965E-117
Nub1	4.846E-66	1.236204	0.395	0.243	1.1494E-61	Pcbd1	8.293E-122	-1.15478926	0.14	0.348	1.967E-117
Ifi2712a	5.6918E-66	3.70290675	0.119	0.013	1.35E-61	Enpp1	1.627E-121	-1.25266446	0.101	0.289	3.858E-117
Unc13b	6.5945E-66	2.03003592	0.207	0.072	1.5642E-61	Acs13	4.527E-120	-1.88394182	0.057	0.209	1.074E-115
Tgm2	6.631E-66	1.07862811	0.495	0.363	1.5728E-61	Susd2	1.953E-119	-2.16564746	0.025	0.143	4.631E-115
Jpt1	1.0555E-65	2.20424533	0.195	0.063	2.5036E-61	Ciart	2.168E-118	-3.14457807	0.016	0.118	5.143E-114
Rpl22	1.1822E-65	1.15441665	0.464	0.326	2.804E-61	Snhg11	9.477E-118	-1.04076824	0.496	0.693	2.248E-113
Lyv6c1	1.5409E-65	4.06449457	0.111	0.009	3.6549E-61	Acp6	1.322E-117	-1.11426771	0.18	0.398	3.136E-113
Trim34a	1.6624E-65	2.883008	0.136	0.023	3.943E-61	Slc46a3	8.071E-117	-1.67252027	0.06	0.212	1.914E-112
Pdlim7	1.75E-65	3.3553503	0.131	0.021	4.1509E-61	Grhrp	1.396E-116	-1.14939513	0.156	0.365	3.311E-112
Rnf183	1.7797E-65	1.41934168	0.308	0.154	4.2214E-61	Aspg	1.675E-116	-1.6241205	0.076	0.24	3.972E-112
Gm44511	1.0817E-64	1.1439123	0.489	0.384	2.5658E-60	Bmp7	1.06E-115	-1.78724589	0.053	0.197	2.513E-111
Prrg4	1.5533E-64	2.0637187	0.244	0.105	3.6844E-60	Idh2	1.12E-115	-1.01642503	0.205	0.433	2.657E-111
Phactr1	1.5559E-64	1.27658584	0.216	0.076	3.6904E-60	Atpb8b4	1.978E-115	-2.45307774	0.043	0.176	4.692E-111
Pdk4	2.7005E-64	2.65306704	0.193	0.065	6.4054E-60	Gm3716	1.43E-113	-2.0969415	0.031	0.152	3.391E-109
Gm26669	2.7137E-64	2.76006203	0.169	0.047	6.4367E-60	Gm45645	8.372E-113	-1.77692755	0.048	0.186	1.986E-108
Cxadr	2.7693E-64	1.41305377	0.342	0.195	6.5685E-60	Pgm2	1.844E-112	-1.03649263	0.193	0.413	4.374E-108
Apobec1	6.9264E-64	2.0614048	0.216	0.082	1.6429E-59	Cqqa8a	3.616E-112	-1.58803439	0.07	0.226	8.577E-108
Dtx4	8.6059E-64	2.65915888	0.149	0.032	2.0412E-59	Cckar	4.517E-112	-2.72063404	0.014	0.111	1.071E-107
Trim30a	9.3232E-64	2.54701461	0.168	0.046	2.2114E-59	Unc5c	2.151E-111	-1.22974224	0.251	0.468	5.102E-107
Kcnb1	1.2575E-63	2.95840739	0.14	0.027	2.9827E-59	Gnpda1	6.591E-110	-1.10785237	0.164	0.37	1.563E-105
Sesn3	1.804E-63	1.15937005	0.428	0.282	4.279E-59	Slc5a12	9.603E-110	-1.69421785	0.316	0.49	2.278E-105
Gm6034	6.4053E-63	3.54142448	0.112	0.011	1.5193E-58	Hecw2	4.423E-109	-1.90797689	0.064	0.211	1.049E-104
Efhfd2	2.0245E-62	2.28816878	0.186	0.06	4.8019E-58	Epas1	6.677E-109	-1.3665272	0.091	0.26	1.584E-104
Ifit1	4.6885E-62	3.3039297	0.102	0.006	1.1121E-57	Gm10271	1.5E-108	-1.84684611	0.047	0.181	3.558E-104
Arntl	5.0391E-62	3.1604336	0.133	0.025	1.1952E-57	C920021L13Ril	1.894E-108	-1.31066065	0.112	0.292	4.492E-104
Eif6	7.1759E-62	1.74505333	0.238	0.101	1.7021E-57	Qdpr	5.902E-108	-1.12031949	0.15	0.349	1.4E-103
Tcigr1	2.0978E-61	1.74041874	0.222	0.087	4.9759E-57	B430010I23Rik	1.402E-107	-1.16766789	0.136	0.325	3.324E-103
Igf2bp2	2.2173E-61	1.16127281	0.376	0.224	5.2592E-57	Hnf1a	2.308E-107	-1.12779393	0.145	0.341	5.474E-103
Azin2	2.5198E-61	1.92026809	0.249	0.114	5.9767E-57	O610006L08Ril	7.456E-106	-1.33586332	0.1	0.27	1.769E-101
Grk5	6.7403E-61	1.74043452	0.255	0.115	1.5987E-56	Apeh	1.365E-105	-1.13538334	0.137	0.328	3.237E-101
Aoc1	8.3048E-61	1.47934514	0.389	0.265	1.9698E-56	Slc18b1	1.34E-104	-1.242897	0.117	0.294	3.178E-100
Adar	1.2719E-60	1.30674677	0.332	0.186	3.0169E-56	Tyw3	1.965E-104	-1.8293247	0.049	0.181	4.66E-100
Junb	1.7001E-60	1.70369501	0.233	0.098	4.0324E-56	Zfp503	2.445E-104	-1.14937162	0.204	0.408	5.8E-100
Gm15336	2.4896E-60	2.44145536	0.179	0.058	5.9051E-56	Lrrc8b	3.797E-103	-1.01981555	0.207	0.417	9.005E-99
Rpl8	2.9411E-60	1.00721466	0.539	0.436	6.976E-56	Evpl	4.529E-103	-1.55972556	0.064	0.208	1.0742E-98
Eif2ak2	3.62E-60	1.35335784	0.337	0.194	8.5862E-56	Cry2	1.024E-102	-1.01674442	0.161	0.359	2.4299E-98
Gm445g	4.0213E-60	2.1509109	0.185	0.062	9.5382E-56	Gsta3	1.482E-102	-1.12878588	0.138	0.325	3.5141E-98
Calm1	1.7669E-59	1.11724996	0.451	0.32	4.1908E-55	Zfp467	5.009E-102	-1.22790548	0.118	0.296	1.1881E-97
Ier3	9.6195E-59	3.06479356	0.137	0.03	2.2817E-54	Slc29a3	3.73E-101	-1.00275296	0.169	0.37	8.8462E-97
Cmc4	2.3312E-58	1.86526106	0.228	0.098	5.5293E-54	Fads2	1.074E-100	-1.20553646	0.123	0.301	2.5466E-96
Coro2b	2.6412E-58	3.22662398	0.116	0.017	6.2647E-54	Gm37988	6.097E-100	-1.3744709	0.084	0.24	1.446E-95
Btg2	3.2864E-58	2.72866912	0.134	0.028	7.7951E-54	Sgpp1	1.548E-99	-1.00776987	0.189	0.393	3.6729E-95
Sh3bp2	5.7321E-58	1.87930072	0.222	0.093	1.3596E-53	Vwa2	2.476E-99	-1.748366	0.035	0.151	5.8732E-95
Rps3a1	9.7932E-58	1.29436867	0.377	0.243	2.3228E-53	Gm10658	2.946E-99	-1.48208685	0.079	0.23	6.9888E-95
Rps3	3.5518E-57	1.02491904	0.519	0.411	8.4246E-53	Gm7932	4.63E-99	-1.10188848	0.126	0.306	1.0981E-94
Pkm	5.5012E-57	2.07868176	0.21	0.086	1.3048E-52	Akrlc14	1.0971E-98	-1.89284832	0.038	0.156	2.6021E-94
Ptpn1	5.7807E-57	1.20809596	0.406	0.278	1.3711E-52	Tmem25	1.5687E-98	-1.14484745	0.121	0.297	3.7209E-94
Atm1	9.213E-57	1.00686295	0.463	0.337	2.1852E-52	Msrb2	4.8151E-98	-2.17169359	0.024	0.127	1.1421E-93
Ptpn23	1.558E-56	1.58023935	0.277	0.143	3.6955E-52	Ror2	9.599E-98	-2.28948892	0.048	0.171	2.2768E-93
D030045P18R	1.6877E-56	4.3392716	0.101	0.01	4.0031E-52	Csrp3	1.654E-97	-1.30431476	0.101	0.263	3.9231E-93
Nupr1	3.8422E-56	3.10852956	0.115	0.019	9.1133E-52	Kyat3	3.3156E-97	-1.38679745	0.173	0.356	7.8643E-93
Fmn13	4.2272E-56	3.6009103	0.102	0.011	1.0026E-51	Dhfr	3.8512E-97	-1.09216275	0.155	0.343	9.1348E-93
Gm7580	4.7992E-56	3.08238959	0.13	0.029	1.1383E-51	Tmem241	8.2928E-97	-1.179944	0.154	0.338	1.967E-92
Slc14a	4.865E-56	1.28625966	0.32	0.181	1.1539E-51	Sms	1.1312E-96	-1.40186519	0.074	0.22	2.6831E-92
Cfl1	6.5392E-56	1.39129586	0.307	0.17	1.551E-51	Gm36231	1.8728E-96	-1.95884254	0.031	0.14	4.4421E-92
Ppip5k1	9.8576E-56	1.03096548	0.469	0.353	2.3381E-51	Tst	1.9095E-96	-1.46482319	0.069	0.211	4.5292E-92
Jam3	1.0352E-55	1.29621447	0.332	0.189	2.4554E-51	Zfp385b	2.4177E-96	-1.47350668	0.11	0.273	5.7346E-92
Cytip	1.1884E-55	2.55149262	0.148	0.04	2.8188E-51	C2cd2l	2.111E-95	-1.22714817	0.119	0.288	5.0071E-91
Gm42917	1.3714E-55	3.18512805	0.121	0.022	3.2528E-51	Glt1d1	2.1699E-94	-1.47106114	0.103	0.261	5.1467E-90
Ifi2bpl	2.2175E-55	2.02479013	0.189	0.07	5.2597E-51	Cnnm4	4.7746E-94	-2.3869848	0.019	0.112	1.1325E-89
Nrxn3	3.8022E-55	2.96583531	0.167	0.055	9.0184E-51	Gm14320	5.6335E-94	-1.99728088	0.032	0.139	1.3362E-89
Ywhag	5.0395E-55	1.33392713	0.33	0.197	1.1953E-50	4930481A15Ri	8.8146E-94	-1.3636891	0.081	0.229	2.0907E-89
Casp7	1.0179E-54	1.37040979	0.296	0.161	2.4144E-50	Srds5a2	1.1728E-93	-1.68609615	0.038	0.153	2.7818E-89
Rpl1	1.073E-54	1.14335217	0.456	0.344	2.5452E-50	Mtmr10	7.1477E-93	-1.02355015	0.215	0.412	1.6954E-88
Cdk17	1.0872E-54	1.36345942	0.318	0.184	2.5787E-50	Shmt2	1.8652E-92	-1.93898961	0.076	0.219	4.424E-88
Ppa1	1.128E-54	1.8639736	0.201	0.08	2.6756E-50	Ryr2	2.8806E-92	-2.05611595	0.024	0.123	6.8324E-88
Fosl2	1.791E-54	2.56246382	0.149	0.042	4.2481E-50	Slc7a13	3.2217E-92	-1.89387556	0.067	0.201	7.6415E-88
Mapkapk2	1.7958E-54	1.03634651	0.462	0.343	4.2595E-50	Emx1	7.4775E-92	-1.54607353	0.057	0.185	1.7736E-87
Skil	5.062E-54	1.40277413	0.297	0.164	1.2007E-49	Slc5a8	8.7622E-92	-1.04335731	0.299	0.494	2.0783E-87
Tmco4	5.6316E-54	1.29522562	0.306	0.17	1.3357E-49	Pgpepl1	4.0042E-91	-2.37527634	0.021	0.113	9.4977E-87
Arpc5	6.1008E-54	1.30398017	0.343	0.212	1.447E-49	Kif5a	2.6282E-90	-2.22435916	0.02	0.11	6.2338E-86
Gm42620	1.3466E-53	2.51868377	0.164	0.055	3.1939E-49	Cgref1	9.5769E-90	-1.13991431	0.133	0.305	2.2715E-8

Zmynd15	5.0074E-51	1.71684445	0.182	0.067	1.1877E-46	Pxylp1	4.9859E-81	-1.31108615	0.084	0.221	1.1826E-76
Coro1c	6.0638E-51	1.22053715	0.375	0.252	1.4383E-46	Ctnnbip1	5.2369E-81	-1.00898604	0.131	0.292	1.2421E-76
Cacnb4	7.5599E-51	2.26996777	0.187	0.075	1.7931E-46	Gprin3	7.1658E-81	-1.95411734	0.028	0.122	1.6997E-76
Fam129a	1.0618E-50	2.87547643	0.115	0.023	2.5185E-46	Adgra2	5.6362E-80	-1.8199691	0.041	0.146	1.3369E-75
Setd7	1.0813E-50	1.87448156	0.164	0.055	2.5648E-46	Fitm1	6.1552E-80	-2.21553219	0.019	0.101	1.46E-75
Fam163a	2.2053E-50	1.02962739	0.419	0.281	5.2309E-46	Zbth7c	6.3134E-80	-1.90301339	0.048	0.157	1.4975E-75
Ano9	2.4898E-50	2.42141066	0.143	0.042	5.9056E-46	Mrnip	1.2866E-78	-1.42822755	0.068	0.192	3.0518E-74
Stk39	3.2889E-50	1.91305878	0.194	0.08	7.8011E-46	Miga2	8.8295E-78	-1.28419198	0.089	0.224	2.0943E-73
My12a	3.2891E-50	1.7921923	0.231	0.113	7.8014E-46	Slc6a19	1.8883E-77	-1.03432915	0.039	0.543	4.7488E-73
Pmepa1	4.489E-50	1.86970275	0.228	0.11	1.0647E-45	Idi1	4.2647E-77	-1.64717467	0.032	0.127	1.0115E-72
Gm40271	5.0572E-50	1.97786923	0.187	0.076	1.1995E-45	Glod5	2.1528E-76	-1.18590116	0.08	0.212	5.1061E-72
Mthfd1l	5.3238E-50	1.29602661	0.242	0.114	1.2628E-45	Lonrf1	2.2837E-76	-1.18923225	0.102	0.244	5.4167E-72
Cldn1	5.6374E-50	2.66421384	0.149	0.047	1.3371E-45	mt-Nd6	2.8438E-76	-1.52935372	0.043	0.148	6.7453E-72
Jak2	1.6142E-49	1.08658991	0.435	0.321	3.8286E-45	Halr1	2.8057E-75	-1.78723769	0.039	0.139	6.6549E-71
Defb1	2.9048E-49	1.45795751	0.26	0.136	6.89E-45	Gm34590	1.1007E-74	-1.95262586	0.027	0.115	2.6106E-70
Cmpk2	3.5624E-49	2.76985624	0.115	0.025	8.4497E-45	Elovi2	1.385E-74	-1.65262322	0.033	0.127	3.285E-70
Gm31224	3.563E-49	1.91479296	0.219	0.105	8.4511E-45	Ttc38	2.0321E-74	-1.03115076	0.137	0.292	4.8199E-70
Rras	5.452E-49	2.91845463	0.106	0.019	1.2932E-44	Acot11	6.7741E-74	-1.22748535	0.109	0.249	1.6067E-69
Mt2	9.9606E-49	1.91477915	0.143	0.042	2.3625E-44	Cct6b	1.5309E-72	-1.72563316	0.032	0.123	3.6311E-68
Gm44686	1.0305E-48	1.518028	0.298	0.181	2.4441E-44	Fzd1	4.1148E-71	-1.42197754	0.041	0.141	9.7598E-67
Slc13a1	1.0678E-48	1.04181628	0.849	0.909	2.5326E-44	Acat2	4.2821E-71	-1.00123669	0.104	0.243	1.0157E-66
Prrg1	1.4175E-48	2.13278769	0.156	0.052	3.3622E-44	Fndc9	2.3093E-70	-1.51512714	0.04	0.136	5.4775E-66
B4galt5	3.0581E-48	1.02493275	0.475	0.372	7.2534E-44	Abhd14a	7.4073E-70	-1.23365182	0.068	0.186	1.7569E-65
Cd24a	4.3358E-48	2.56063589	0.128	0.034	1.0284E-43	Tmem163	6.7566E-69	-1.96680129	0.034	0.123	1.6026E-64
Znfx1	8.7446E-48	1.00117729	0.394	0.268	2.0741E-43	Gcsh	1.5952E-68	-1.12924807	0.078	0.201	3.7837E-64
Trib1	2.1035E-47	2.41015941	0.127	0.033	4.9892E-43	Fmo4	4.2822E-68	-1.08089095	0.1	0.232	1.0157E-63
Raph1	2.6346E-47	1.40660979	0.305	0.186	6.249E-43	Mett124	4.4708E-68	-1.02754046	0.168	0.323	1.0604E-63
Erbb4	2.9494E-47	2.35377198	0.226	0.111	6.9956E-43	Gm48099	6.6459E-68	-1.73209635	0.042	0.137	1.5763E-63
Doc2g	3.971E-47	2.2847844	0.127	0.034	9.4189E-43	Gm45051	7.0938E-68	-1.72234253	0.033	0.122	1.6826E-63
Dusp1	6.1944E-47	1.72157643	0.171	0.063	1.4693E-42	Poir3gl	1.6566E-67	-1.00307109	0.106	0.24	3.9292E-63
Car5b	1.0139E-46	1.50781934	0.254	0.136	2.405E-42	Bco2	1.867E-67	-1.81621799	0.027	0.109	4.4284E-63
Sema5a	1.4892E-46	1.12058131	0.617	0.613	3.5321E-42	Gabbr3	3.2753E-67	-1.76516231	0.148	0.281	7.7688E-63
Cftr	2.1078E-46	1.2887323	0.318	0.196	4.9995E-42	Gm15217	8.7765E-67	-1.42491132	0.051	0.153	2.0817E-62
Gm47371	3.5149E-46	2.31773943	0.141	0.045	8.337E-42	Rab11fip4	1.5139E-66	-1.23231876	0.051	0.154	3.5909E-62
H2afz	4.4566E-46	1.52660214	0.279	0.164	1.0571E-41	Prima1	1.879E-66	-1.68294947	0.049	0.148	4.4568E-62
Fga	4.548E-46	2.66520369	0.145	0.048	1.0787E-41	Chst3	2.8926E-66	-2.05970577	0.028	0.11	6.861E-62
Wars	5.3654E-46	1.91560529	0.19	0.083	1.2726E-41	Rilp12	4.1776E-66	-1.09446832	0.095	0.222	9.909E-62
Jund	2.5626E-45	1.05377463	0.407	0.298	6.0782E-41	Chrm3	7.1216E-66	-1.25728305	0.179	0.321	1.6892E-61
Syt12	3.485E-45	1.81585031	0.164	0.061	8.266E-41	AC117197.3	2.1119E-65	-1.92384493	0.028	0.109	5.0091E-61
Trim56	4.2198E-45	1.3108355	0.262	0.141	1.0009E-40	Klhd7a	3.3942E-65	-1.05571925	0.089	0.214	8.0506E-61
Bcam	1.315E-44	2.543429	0.107	0.024	3.1191E-40	Alad	1.7266E-64	-1.02623384	0.1	0.229	4.0954E-60
Ccng1	1.7018E-44	1.18618659	0.326	0.207	4.0366E-40	Pag1	2.3934E-64	-1.36108205	0.066	0.175	5.6769E-60
Tgfr1	2.9527E-44	1.81780779	0.196	0.089	7.0036E-40	Zmynd12	5.978E-64	-1.05580975	0.115	0.249	1.4179E-59
Rhbd2	3.3119E-44	1.34861677	0.264	0.147	7.8554E-40	Gjb1	1.3166E-63	-1.80279418	0.032	0.115	3.1228E-59
Trf1r1	6.1916E-44	2.53914392	0.106	0.024	1.4686E-39	Frg2f1	3.4665E-62	-1.67396928	0.034	0.118	8.2223E-58
Bak1	6.9647E-44	2.28174673	0.129	0.039	1.652E-39	Gm10681	8.2416E-62	-1.19234184	0.06	0.165	1.9548E-57
Poir3e	8.1133E-44	1.54862831	0.464	0.412	1.9244E-39	Fbxo40	3.4006E-61	-1.17476834	0.072	0.182	8.0659E-57
Zwint	2.1047E-43	1.03713489	0.418	0.318	4.9922E-39	lffo1	8.4785E-61	-1.12852811	0.114	0.241	2.011E-56
4930405A10R	2.6639E-43	2.48935825	0.136	0.045	6.3184E-39	Prag1	1.1915E-58	-1.01366027	0.129	0.26	2.8261E-54
Rnf135	3.8492E-43	1.19172101	0.284	0.165	9.13E-39	Ace	1.5108E-58	-1.25060947	0.054	0.15	3.5835E-54
Mrp133	4.4896E-43	1.1705742	0.326	0.211	1.0649E-38	Gm27216	1.8841E-58	-1.11992267	0.068	0.173	4.6688E-54
Gm15738	5.7866E-43	1.67002243	0.217	0.11	1.3725E-38	Gm12678	3.375E-58	-1.3827828	0.063	0.163	8.0052E-54
Plin2	5.7992E-43	1.17102191	0.41	0.312	1.3755E-38	4921539H07Ri	3.4619E-58	-1.02896532	0.242	0.387	8.2114E-54
Npas2	7.3905E-43	2.08673565	0.133	0.042	1.7529E-38	Hemk1	5.1188E-58	-1.25781035	0.047	0.139	1.2141E-53
Anxa4	7.8914E-43	1.06524601	0.347	0.23	1.8718E-38	Epha1	1.3988E-57	-1.21513481	0.059	0.158	3.3179E-53
Tes	1.5162E-42	1.81404149	0.156	0.059	3.5962E-38	Sc5d	5.892E-57	-1.14207102	0.068	0.172	1.3975E-52
Sparc	1.9484E-42	2.7424792	0.104	0.024	4.6215E-38	Fdft1	1.997E-56	-1.26252328	0.066	0.167	4.7366E-52
Nckap5	2.677E-42	1.0566907	0.283	0.163	6.3497E-38	Degs2	2.91E-56	-1.64039248	0.027	0.101	6.9023E-52
Slco2a1	5.5183E-42	1.03544025	0.389	0.274	1.3089E-37	Ggct	5.9223E-56	-1.12316884	0.072	0.176	1.4047E-51
Pgd	8.6606E-42	1.25322117	0.283	0.169	2.0542E-37	Sardhos	1.4506E-55	-1.34341956	0.035	0.115	3.4407E-51
Map3k21	1.3995E-41	1.59909688	0.207	0.102	3.3195E-37	Ppic	1.5541E-55	-1.04727999	0.072	0.178	3.6862E-51
Lhfp12	1.5865E-41	2.33986935	0.128	0.041	3.763E-37	Cyp2f2	5.2296E-55	-1.32304352	0.043	0.128	1.2404E-50
Syne1	1.6218E-41	2.1226763	0.158	0.063	3.8469E-37	Aldh5a1	6.0259E-55	-1.08887628	0.079	0.186	1.4293E-50
Rab31	1.6609E-41	2.07182621	0.127	0.039	3.9394E-37	AC110166.2	8.8932E-54	-1.40549783	0.042	0.125	2.1094E-49
Jpt2	2.1392E-41	2.23560913	0.122	0.036	5.074E-37	Nr1d1	5.1349E-53	-1.36060129	0.051	0.14	1.2179E-48
Gm11361	3.001E-41	1.11629236	0.358	0.25	7.1181E-37	Cyp2d9	1.9203E-52	-1.06003361	0.052	0.141	4.5547E-48
Nras	4.1135E-41	1.31741932	0.26	0.148	9.7567E-37	Acad12	2.1488E-52	-1.02310717	0.095	0.206	5.0966E-48
Slc40a1	4.5085E-41	1.30205927	0.264	0.152	1.0694E-36	Tmem143	1.3448E-51	-1.09189083	0.066	0.163	3.1896E-47
4930486i03Ri	4.764E-41	1.30122248	0.335	0.231	1.13E-36	Nid2	2.3516E-51	-1.03787815	0.066	0.163	5.5777E-47
Peli1	9.9465E-41	1.0767695	0.413	0.314	2.3592E-36	Afap111	1.7287E-50	-1.23368011	0.043	0.125	4.1003E-46
Adap1	1.0416E-40	1.35036164	0.242	0.132	2.4706E-36	Msmo1	5.3654E-50	-1.21890017	0.064	0.156	1.2726E-45
Akr1b3	1.2871E-40	1.8509072	0.189	0.09	3.0529E-36	Tett1	5.579E-50	-1.52591342	0.038	0.113	1.3233E-45
Spns3	1.3201E-40	1.60430996	0.17	0.072	3.1311E-36	Gm19461	5.7615E-50	-1.24475807	0.047	0.13	1.3666E-45
Smagp	2.1292E-40	1.20038484	0.309	0.199	5.0504E-36	Cpne4	1.4062E-49	-1.68589607	0.083	0.182	3.3354E-45
Amot12	2.9884E-40	1.50498875	0.266	0.162	7.0881E-36	Pkd2l2	3.4816E-48	-1.1029893	0.062	0.153	8.2579E-44
Tnfrsf1a	4.1096E-40	1.62910475	0.177	0.078	9.7476E-36	Zmynd10	4.3234E-48	-1.47049791	0.031	0.101	1.0255E-43
Capns1	9.8022E-40	1.15318047	0.337	0.232	2.325E-35	Adgr1l	1.5019E-47	-1.15530534	0.053	0.138	3.5624E-43
St3gal4	1.095E-39	1.56369282	0.163	0.066	2.5972E-35	lyd	4.0227E-47	-1.1632119	0.051	0.133	9.5413E-43
Vps37d	1.4485E-39	2.04856277	0.136	0.048	4.3357E-35	Cyp2j8	5.2371E-46	-1.18085757	0.05	0.131	1.2422E-41
Trim26	1.8956E-39	1.23526294	0.282	0.173	4.4963E-35	Ccdc162	3.6603E-45	-1.1448453	0.11	0.215	8.6818E-41
Gtpbp2	2.3966E-39	1.16147517	0.33	0.223	5.6846E-35	Mfsd2a	3.8054E-45	-1.57879987	0.036	0.106	9.0259E-41
Spag6l	2.5884E-39	1.12435566	0.303	0.191	6.1394E-35	Anks1b	4.592E-45	-1.13126214	0.117		

Gadd45a	3.188E-35	2.24078734	0.109	0.034	7.5615E-31	Gm29571	1.8758E-39	-1.40627246	0.036	0.101	4.4493E-35
Sqle	3.2614E-35	1.19222856	0.288	0.188	7.7358E-31	Ahcy	5.9672E-39	-1.19366269	0.038	0.104	1.4154E-34
Atg16l2	3.4563E-35	1.66734305	0.155	0.067	8.1979E-31	Pantr1	1.3665E-38	-1.23509603	0.041	0.109	3.2413E-34
Sox4	3.8177E-35	2.58284014	0.101	0.029	9.0553E-31	Ctsf	4.2953E-38	-1.06676798	0.046	0.116	1.0188E-33
Flot1	4.1668E-35	1.44490761	0.176	0.083	9.8831E-31	A730049H05R	2.0082E-37	-1.11093983	0.051	0.123	4.7632E-33
Rfx5	9.6442E-35	1.71075167	0.149	0.063	2.2875E-30	Calb1	1.3374E-36	-1.05837554	0.052	0.125	3.1723E-32
Gnai2	1.0153E-34	1.02452217	0.345	0.248	2.4082E-30	Gm29536	1.688E-36	-1.14958604	0.067	0.144	4.0038E-32
Rell1	1.1378E-34	1.42398977	0.209	0.114	2.6988E-30	Rtn4rl1	3.1852E-36	-1.02455865	0.083	0.168	7.5549E-32
Rnfl14	1.4298E-34	1.01311454	0.343	0.243	3.3913E-30	Slc26a2	3.3253E-36	-1.15606018	0.04	0.104	7.8872E-32
Slc20a1	3.5378E-34	1.11046949	0.344	0.248	8.3913E-30	Shpk	1.0667E-35	-1.06520647	0.054	0.125	2.53E-31
Gm8739	6.8372E-34	1.94331322	0.117	0.04	1.6217E-29	Rfng	4.8745E-35	-1.00829387	0.057	0.13	1.1562E-30
Casz1	1.084E-33	1.23685239	0.216	0.118	2.5711E-29	Txndc16	5.0206E-35	-1.00280473	0.059	0.133	1.1908E-30
9030025P20R	2.5405E-33	1.92954291	0.142	0.061	6.0257E-29	Slc7a12	5.5523E-32	-1.33483824	0.142	0.231	1.3169E-27
Dbnl	3.8572E-33	1.37629413	0.212	0.119	9.1489E-29	Poli	7.0445E-32	-1.0372521	0.048	0.111	1.6709E-27
Psmas	6.9847E-33	1.0969224	0.285	0.187	1.6567E-28	Efna1	1.5437E-31	-1.01813468	0.059	0.128	3.6616E-27
Phldb1	9.5305E-33	1.27075813	0.286	0.195	2.2605E-28	Gm47771	2.5809E-31	-1.00292803	0.052	0.117	6.1215E-27
Btg3	1.2648E-32	1.55779894	0.151	0.067	3E-28	Rarb	3.3848E-31	-1.36456907	0.054	0.119	8.0283E-27
Slc25a28	1.5333E-32	1.15003711	0.264	0.166	3.6368E-28	A930033H14R	7.8096E-30	-1.01295515	0.053	0.116	1.8523E-25
Npdc1	3.1758E-32	1.63327175	0.152	0.069	7.5326E-28	Eva1c	1.9113E-24	-1.39230057	0.087	0.152	4.5334E-20
2200002D01R	3.3941E-32	2.17032017	0.103	0.033	8.0505E-28	Rnf24	2.6657E-22	-2.57560497	0.346	0.41	6.3228E-18
Gm26827	3.964E-32	1.98483371	0.143	0.063	9.4023E-28						
Kcnc1	4.1136E-32	1.14557833	0.319	0.232	9.757E-28						
Lrric1	4.2588E-32	1.55085504	0.139	0.058	1.0101E-27						
Angptl4	6.9463E-32	1.51121194	0.163	0.078	1.6476E-27						
Abracl	1.1555E-31	1.47368667	0.207	0.118	2.7408E-27						
Plekho1	1.4651E-31	2.09856074	0.102	0.033	3.475E-27						
Psmas7	3.6211E-31	1.11804159	0.286	0.193	8.5889E-27						
Hdc	4.2802E-31	2.10860234	0.161	0.08	1.0152E-26						
AC166344.1	4.5364E-31	2.03439059	0.111	0.04	1.076E-26						
Tiam2	5.0553E-31	1.42333304	0.169	0.084	1.1991E-26						
Pvr	5.1204E-31	1.64704775	0.132	0.055	1.2145E-26						
Fam241a	5.1752E-31	1.94549306	0.108	0.037	1.2275E-26						
Nedd8	5.2023E-31	1.05909757	0.34	0.251	1.2339E-26						
Rpl37	6.4337E-31	1.09197441	0.297	0.205	1.526E-26						
Nek6	7.5447E-31	1.22984871	0.243	0.151	1.7895E-26						
Ftl1-ps1	8.0994E-31	1.31899385	0.283	0.197	1.9211E-26						
Tbrg1	1.5536E-30	1.30865722	0.176	0.09	3.6851E-26						
Tmem184b	2.1605E-30	1.48644382	0.147	0.067	5.1244E-26						
Slc35f5	2.36E-30	1.06789579	0.281	0.187	5.5976E-26						
Hmgbb3	2.412E-30	1.55041483	0.158	0.076	5.721E-26						
Creb3	2.4747E-30	1.60819305	0.156	0.075	5.8697E-26						
Arl4a	4.9483E-30	1.57604358	0.146	0.068	1.1737E-25						
Eef1b2	1.4286E-29	1.26323414	0.213	0.125	3.3884E-25						
Vars	1.4938E-29	1.47252502	0.15	0.071	3.5432E-25						
Gm39469	1.5094E-29	1.18659104	0.255	0.165	3.5802E-25						
Triobp	1.6986E-29	1.57667883	0.146	0.068	4.029E-25						
Kars	1.7683E-29	1.54064554	0.154	0.075	4.1942E-25						
Zyx	1.9025E-29	1.47082492	0.196	0.112	4.5125E-25						
Gm12002	2.5257E-29	1.94223163	0.144	0.068	5.9908E-25						
Socs2	3.3408E-29	1.02779749	0.368	0.286	7.9241E-25						
Micall1	7.8914E-29	1.18815649	0.205	0.118	1.8718E-24						
Gm8126	9.9282E-29	2.05449492	0.137	0.064	2.3549E-24						
Pea15a	1.0154E-28	2.00722467	0.113	0.045	2.4083E-24						
Usp43	2.0571E-28	1.67124297	0.138	0.064	4.8792E-24						
Inpp1	1.167E-27	1.34486417	0.177	0.096	2.768E-23						
Hsd11b1	1.1756E-27	1.76674228	0.148	0.074	2.7885E-23						
Pld2	1.3091E-27	1.94670625	0.104	0.039	3.105E-23						
Per1	1.436E-27	1.20706062	0.188	0.104	3.4061E-23						
4930533B01R	2.5885E-27	1.95465302	0.121	0.052	6.1396E-23						
Plec	4.8643E-27	1.1128057	0.263	0.178	1.1538E-22						
Gm9493	4.9154E-27	1.27827779	0.197	0.116	1.1659E-22						
E130307A14R	5.2019E-27	1.01806126	0.258	0.17	1.2338E-22						
Maea	6.2056E-27	1.01233994	0.295	0.211	1.4719E-22						
Noct	6.4621E-27	1.73275463	0.162	0.086	1.5328E-22						
Gm47167	8.259E-27	1.60886423	0.167	0.092	1.959E-22						
Morf4l2	1.0338E-26	1.14739463	0.228	0.144	2.4521E-22						
Tbl3	1.0425E-26	1.54985355	0.139	0.066	2.4728E-22						
Apaf1	1.1528E-26	1.22830577	0.211	0.128	2.7343E-22						
Gm15614	1.2724E-26	1.33997101	0.242	0.163	3.0179E-22						
Krt8	1.7959E-26	1.30166385	0.19	0.11	4.2596E-22						
Tcaf1	1.8562E-26	1.41906349	0.159	0.082	4.4026E-22						
Zmat3	3.1705E-26	1.15052986	0.219	0.136	7.52E-22						
Aen	3.9834E-26	1.51198183	0.146	0.073	9.4481E-22						
Vasp	4.175E-26	1.4510022	0.16	0.085	9.9027E-22						
Zbtb18	5.1532E-26	1.30677441	0.177	0.099	1.2223E-21						
Cd82	5.8032E-26	1.26536229	0.208	0.127	1.3765E-21						
Nav3	5.8836E-26	2.32639712	0.103	0.041	1.3955E-21						
6530409C15R	5.9794E-26	1.69255635	0.137	0.067	1.4183E-21						
G6pdx	7.4966E-26	1.66500999	0.13	0.061	1.7781E-21						
Traf3ip2	1.1832E-25	1.35371963	0.163	0.088	2.8064E-21						
Cyr61	2.0245E-25	1.08354801	0.157	0.081	4.8019E-21						
Npc2	3.9287E-25	1.06788968	0.278	0.196	9.3184E-21						
Ilk	3.9453E-25	1.26108609	0.183	0.105	9.3578E-21						
Prr13	5.3524E-25	1.24417572	0.191	0.113	1.2695E-20						
Fsd1l	9.6954E-25	1.69744935	0.109	0.046	2.2997E-20						
Gm8186	1.222E-24	1.47571376	0.139	0.07	2.8983E-20						
Gt(ROSA)26Sc	1.6903E-24	1.30413365	0.186	0.11	4.0091E-20						
Usp31	2.1581E-24	1.09786633	0.214	0.135	5.1189E-20						
Capn2	2.7412E-24	1.05320924	0.255	0.174	6.5018E-20						
Cyth3	4.5171E-24	1.19073956	0.172	0.097	1.0714E-19						
Rmdn3	5.0768E-24	1.17814455	0.204	0.126	1.2042E-19						
Pml	7.9331E-24	1.019956	0.232	0.152	1.8816E-19						
Fam196a	1.1197E-23	1.77404585	0.131	0.066	2.6559E-19						
Gca	1.2928E-23	1.39726946	0.121	0.056	3.0664E-19						
Bag2	1.2957E-23	1.42687198	0.155	0.085	3.0732E-19						
C77080	2.1402E-23	1.03844864	0.213	0.134	5.0764E-19						
Gfer	2.2553E-23	1.27809402	0.161	0.089	5.3494E-19						
Gm15337	2.618E-23	1.74248233	0.107	0.047	6.2096E-19						
Nrbp2	2.8075E-23	1.33735217	0.15	0.081	6.6592E-19						
Mob1a	9.7684E-23	1.12919741	0.209	0.133	2.317E-18						

Abi2	1.1379E-22	1.03541425	0.237	0.159	2.6991E-18
Ifngr2	1.1582E-22	1.44970579	0.114	0.052	2.7471E-18
Gm4117	2.5325E-22	1.6718394	0.133	0.069	6.0069E-18
Capn1	2.9652E-22	1.56407784	0.118	0.057	7.0331E-18
Ripk2	4.0649E-22	1.27902487	0.173	0.102	9.6416E-18
Rasgef1b	4.3611E-22	1.61568363	0.128	0.065	1.0344E-17
Aqp2	5.6268E-22	1.45392515	0.12	0.058	1.3346E-17
Mfsd4a	5.8143E-22	1.08573238	0.232	0.159	1.3791E-17
Dsg2	5.9203E-22	1.65128294	0.102	0.044	1.4042E-17
Epb4114a	5.9893E-22	1.01837283	0.163	0.092	1.4206E-17
Rpl30	6.1428E-22	1.4699194	0.14	0.076	1.457E-17
Katna1	6.7304E-22	1.02074437	0.226	0.151	1.5964E-17
Taf4b	7.3543E-22	1.21430844	0.135	0.069	1.7444E-17
Nectin2	8.0239E-22	1.3533762	0.118	0.057	1.9032E-17
Slc17a4	1.0078E-21	1.58395596	0.116	0.056	2.3904E-17
1810037117Ri	1.5556E-21	1.07453492	0.222	0.149	3.6898E-17
Gda	2.327E-21	1.05060501	0.195	0.122	5.5194E-17
Dkc1	2.4112E-21	1.36362238	0.15	0.084	5.7191E-17
Gm28727	2.6151E-21	1.44969102	0.127	0.065	6.2028E-17
4930444A19R	3.2322E-21	1.64861824	0.129	0.068	7.6665E-17
Tnfaip1	5.1966E-21	1.08508529	0.214	0.143	1.2326E-16
Ampd3	9.0526E-21	1.66233309	0.105	0.049	2.1472E-16
Olfr1033	9.3556E-21	1.54042423	0.15	0.086	2.219E-16
Lrrc4	1.135E-20	1.03477579	0.303	0.238	2.6921E-16
Leprotl1	1.5311E-20	1.34760161	0.134	0.072	3.6316E-16
Cacna1d	1.6189E-20	1.02447866	0.181	0.111	3.84E-16
Ets2	1.6761E-20	1.18538716	0.163	0.097	3.9755E-16
Rps15a	1.689E-20	1.36695502	0.164	0.098	4.0061E-16
Cuedc1	2.1009E-20	1.31635846	0.145	0.081	4.9832E-16
Rps7	2.3461E-20	1.18706417	0.187	0.12	5.5648E-16
Kcnp4	2.3751E-20	1.08293015	0.161	0.095	5.6334E-16
E530011L22Ri	4.328E-20	1.54010884	0.115	0.058	1.0266E-15
Bbs12	5.2386E-20	1.42269744	0.138	0.077	1.2426E-15
Sf3b5	5.5028E-20	1.37932895	0.147	0.084	1.3052E-15
Il17rc	6.2489E-20	1.38308908	0.113	0.055	1.4822E-15
Pinx1	6.2768E-20	1.25466906	0.16	0.095	1.4888E-15
Bcl10	6.9521E-20	1.5983338	0.106	0.051	1.649E-15
Fam111a	7.1198E-20	1.20860855	0.219	0.151	1.6887E-15
Zbtb4	7.1302E-20	1.10231052	0.181	0.113	1.6912E-15
Fbf1	8.5544E-20	1.06898081	0.19	0.121	2.029E-15
Arg2	1.7484E-19	1.88508703	0.101	0.048	4.1471E-15
Bax	3.2098E-19	1.05816689	0.232	0.164	7.6133E-15
Gm16552	4.3905E-19	1.19376086	0.209	0.144	1.0414E-14
Ttpa	4.6594E-19	1.31554341	0.116	0.059	1.1052E-14
Zpld1	5.8471E-19	1.42109372	0.108	0.053	1.3869E-14
Carhsp1	5.8629E-19	1.40650586	0.107	0.053	1.3906E-14
Tmem50a	9.518E-19	1.23363293	0.138	0.078	2.2576E-14
Nt5c	9.965E-19	1.17687675	0.17	0.106	2.3636E-14
Psmg4	1.2879E-18	1.31213395	0.117	0.061	3.0547E-14
Slx4	1.5097E-18	1.03494155	0.194	0.128	3.5809E-14
Gm17227	1.6521E-18	1.33276067	0.136	0.078	3.9186E-14
Zdhhc2	2.0547E-18	1.21246121	0.149	0.088	4.8735E-14
Mocos	2.2217E-18	1.0996713	0.19	0.126	5.2696E-14
Shisa5	3.7115E-18	1.10307536	0.208	0.144	8.8033E-14
Gm26836	4.5064E-18	1.18804132	0.192	0.13	1.0689E-13
Vac14	4.5734E-18	1.06035498	0.334	0.282	1.0848E-13
Ss18l1	5.6022E-18	1.44210765	0.101	0.049	1.3288E-13
Nubp1	9.202E-18	1.20986545	0.138	0.079	2.1826E-13
B4galt3	1.0851E-17	1.15038978	0.15	0.09	2.5737E-13
Xlr5a	1.0988E-17	1.47277519	0.104	0.052	2.6063E-13
Gm26835	1.1129E-17	1.07292188	0.244	0.181	2.6396E-13
Cenpj	1.3288E-17	1.31869462	0.12	0.065	3.1518E-13
Nsmf	1.7437E-17	1.01587159	0.187	0.123	4.136E-13
Kcnh1	2.6676E-17	1.3860485	0.136	0.079	6.3273E-13
Plpp2	2.6956E-17	1.37378668	0.121	0.067	6.3938E-13
Ppp1r14b	2.8117E-17	1.19312787	0.168	0.108	6.6692E-13
Gm15563	3.1296E-17	1.1899768	0.2	0.14	7.4232E-13
Eml2	3.2565E-17	1.04247605	0.19	0.127	7.724E-13
Keap1	4.1934E-17	1.02875536	0.171	0.11	9.9462E-13
Nrxn2	5.4614E-17	1.37864124	0.126	0.072	1.2954E-12
D930048N14f	5.5991E-17	1.04339735	0.135	0.078	1.3281E-12
Ahr	5.8812E-17	1.54064932	0.108	0.058	1.395E-12
Gm16311	7.8569E-17	1.07345238	0.398	0.362	1.8636E-12
Irf6	8.7435E-17	1.06973891	0.144	0.086	2.0739E-12
Ston1	8.8862E-17	1.07683207	0.173	0.112	2.1077E-12
Utp3	1.23E-16	1.27940092	0.11	0.058	2.9174E-12
Itga3	1.763E-16	1.10719198	0.181	0.122	4.1818E-12
Tmem65	1.7705E-16	1.18671614	0.144	0.088	4.1994E-12
S100a13	2.3563E-16	1.32742589	0.122	0.07	5.5888E-12
Coro1b	2.5755E-16	1.1447709	0.155	0.098	6.1089E-12
Zc3h12b	3.7738E-16	1.12189653	0.114	0.063	8.9511E-12
Nod1	4.0506E-16	1.14159654	0.159	0.101	9.6077E-12
Rnf31	4.1236E-16	1.03856129	0.159	0.101	9.7807E-12
Gm32250	4.5812E-16	1.55905169	0.103	0.055	1.0866E-11
Pgs1	5.6591E-16	1.105521	0.156	0.099	1.3423E-11
Hoxb5os	6.1541E-16	1.29761282	0.128	0.075	1.4597E-11
Wtip	6.3284E-16	1.22546592	0.143	0.089	1.501E-11
Tmem213	8.0321E-16	1.03986418	0.291	0.244	1.9051E-11
Gm28501	8.4757E-16	1.4440388	0.132	0.08	2.0103E-11
Lysmd4	8.5894E-16	1.01603201	0.249	0.193	2.0373E-11
Ctla4	1.5508E-15	1.05911271	0.148	0.093	3.6784E-11
Snu13	1.6722E-15	1.19745735	0.151	0.096	3.9662E-11
Slc24a5	1.8443E-15	1.29271418	0.132	0.08	4.3745E-11
Rpl12	1.8715E-15	1.23914494	0.132	0.08	4.439E-11
Fbxw9	2.0127E-15	1.20718313	0.112	0.062	4.774E-11
S100a16	3.1988E-15	1.33642548	0.113	0.065	7.5873E-11
Hsp90aa1	4.8036E-15	1.12130094	0.157	0.103	1.1394E-10
Mex3c	7.2235E-15	1.1203637	0.154	0.1	1.7133E-10
Acat3	1.5211E-14	1.05475554	0.166	0.111	3.608E-10
Adam15	2.0264E-14	1.07214515	0.15	0.097	4.8064E-10

Eid1	2.1963E-14	1.22720263	0.122	0.073	5.2094E-10
6330562C20R	2.2191E-14	1.02870144	0.131	0.08	5.2634E-10
Vamp5	2.2941E-14	1.10527308	0.152	0.1	5.4414E-10
Zfp984	2.3108E-14	1.23064355	0.119	0.07	5.4811E-10
Gm11536	2.5386E-14	1.32849999	0.105	0.059	6.0213E-10
Pak3	3.0236E-14	2.39837339	0.126	0.079	7.1717E-10
Zfp185	3.6375E-14	1.04353821	0.121	0.072	8.6277E-10
Pla2g3	6.1325E-14	1.39331672	0.125	0.078	1.4546E-09
Gm15716	6.5182E-14	1.77125213	0.147	0.098	1.5461E-09
2810425M011	9.2957E-14	1.26902737	0.121	0.074	2.2049E-09
Rpl22l1	1.1306E-13	1.12160277	0.156	0.106	2.6816E-09
Itm2c	1.1349E-13	1.18585644	0.123	0.075	2.6919E-09
1700030F04R	1.4639E-13	1.00954231	0.185	0.133	3.4723E-09
Sub1	1.6165E-13	1.00745522	0.218	0.167	3.8342E-09
Dph3	1.9335E-13	1.04015817	0.157	0.106	4.586E-09
Rgmb	2.1944E-13	1.1691965	0.11	0.064	5.205E-09
Gm27017	2.8422E-13	1.15812396	0.143	0.094	6.7414E-09
Akt1	3.2328E-13	1.05181629	0.148	0.098	7.6679E-09
Ccdc88a	4.3717E-13	1.17537106	0.108	0.064	1.0369E-08
Lad1	4.383E-13	1.184667	0.116	0.071	1.0396E-08
Hoxb2	4.4396E-13	1.17841577	0.138	0.09	1.053E-08
Cdk2ap2	4.9305E-13	1.14273468	0.153	0.105	1.1695E-08
Gnl1	5.8925E-13	1.10740892	0.112	0.067	1.3976E-08
Dcp2	8.85E-13	1.00496621	0.166	0.116	2.0991E-08
Srd5a1	9.0018E-13	1.16653808	0.131	0.084	2.1351E-08
Banf1	9.7275E-13	1.24401225	0.103	0.06	2.3073E-08
Gm26749	1.8937E-12	1.01852956	0.207	0.16	4.4916E-08
Trmt112	2.1675E-12	1.18988494	0.117	0.073	5.1411E-08
Bcat1	2.6036E-12	1.26671035	0.129	0.083	6.1756E-08
Ran	2.6479E-12	1.24944024	0.11	0.067	6.2805E-08
Supt4a	4.7174E-12	1.20962704	0.108	0.066	1.1189E-07
Cyb561	5.7295E-12	1.07972829	0.127	0.082	1.359E-07
4930455C13R	6.5133E-12	1.28546738	0.118	0.075	1.5449E-07
Gm10785	6.6682E-12	1.00177728	0.183	0.135	1.5816E-07
Cd151	7.7715E-12	1.12316484	0.114	0.071	1.8433E-07
Ccng2	7.8218E-12	1.19304705	0.103	0.062	1.8553E-07
Peg3	8.4702E-12	1.23413032	0.101	0.06	2.009E-07
Sfr1	8.624E-12	1.04402118	0.129	0.084	2.0455E-07
Gm49356	1.1844E-11	1.06205381	0.16	0.114	2.8092E-07
Selenom	1.2546E-11	1.18851991	0.119	0.077	2.9757E-07
Inpp5j	1.3217E-11	1.00550969	0.149	0.103	3.1349E-07
Rsf1os1	1.5197E-11	1.27065578	0.115	0.074	3.6047E-07
Leprot	1.6697E-11	1.11895746	0.107	0.065	3.9603E-07
Tnip2	1.6784E-11	1.00024989	0.123	0.079	3.981E-07
Map3k12	2.7857E-11	1.20272371	0.103	0.063	6.6074E-07
Sharpin	2.8333E-11	1.06401718	0.128	0.085	6.7203E-07
Spat2	3.0347E-11	1.15322312	0.111	0.07	7.1979E-07
Lamb3	3.536E-11	1.14594217	0.124	0.081	8.3871E-07
Cfap65	3.9116E-11	1.21420532	0.101	0.062	9.278E-07
Gm16008	4.7944E-11	1.00711732	0.106	0.066	1.1372E-06
Ranbp1	9.2676E-11	1.09295979	0.127	0.085	2.1982E-06
Epha7	1.2214E-10	1.10910024	0.107	0.067	2.8971E-06
Kcnk2	1.2241E-10	1.07506474	0.135	0.093	2.9035E-06
Lrrrip1	1.3306E-10	1.24106335	0.114	0.075	3.156E-06
Snrpg	1.7564E-10	1.04162196	0.108	0.068	4.1661E-06
Gm31036	2.1764E-10	1.33924291	0.11	0.072	5.1621E-06
Tmem160	2.6987E-10	1.18277065	0.127	0.087	6.4011E-06
Rsf1os2	2.8005E-10	1.0839767	0.116	0.077	6.6425E-06
Tmem45b	4.3802E-10	1.06647839	0.118	0.078	1.0389E-05
Gm26816	5.8339E-10	1.2116636	0.119	0.081	1.3837E-05
Gm16541	9.5766E-10	1.03009011	0.142	0.102	2.2715E-05
Gm37768	1.0292E-09	1.07495444	0.112	0.075	2.4411E-05
Get4	1.2034E-09	1.01656747	0.122	0.084	2.8543E-05
Hcfc1r1	1.2219E-09	1.01965785	0.13	0.091	2.8983E-05
Gimap9	1.7786E-09	1.06490341	0.102	0.066	4.2187E-05
Rcc2	1.8036E-09	1.1175786	0.102	0.067	4.278E-05
Cpe	1.9056E-09	1.28034038	0.12	0.082	4.5198E-05
Hoxb7	3.5616E-09	1.039697	0.113	0.076	8.4478E-05
Pogk	3.8686E-09	1.04077484	0.112	0.076	9.176E-05
Gm47071	3.8835E-09	1.25765737	0.102	0.067	9.2114E-05
Card19	6.9349E-09	1.17372221	0.105	0.071	0.00016449
Snrpd1	2.4466E-08	1.04790035	0.129	0.094	0.00058031
Gm15655	4.6626E-08	1.0223368	0.121	0.088	0.00110591
Fam32a	6.0153E-08	1.01492937	0.105	0.073	0.00142678
Cacybp	6.761E-08	1.16535316	0.104	0.073	0.00160365
Hk1	3.2584E-07	1.0404738	0.104	0.074	0.00772852
Gm11099	6.1809E-07	1.07961722	0.123	0.093	0.01466047

Table S2: Results from differential gene expression TCMR vs. Control

Proximal Tubules						*This Fold Change was calculated between [BALB/c to C57BL/6] and [BALB/c to BALB/c]					
Gene upr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj	Gene downr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj
Ilgp1	0	9.63371195	0.978	0.008	0	Ces1d	0	-3.60424444	0.127	0.744	0
Gbp2b	0	9.29304044	0.843	0.008	0	Gm26870	0	-4.91290662	0.04	0.631	0
Cd74	0	5.18243454	0.996	0.161	0	Col27a1	0	-3.63043027	0.109	0.645	0
H2-K1	0	5.38600164	0.992	0.159	0	Nat8f1	0	-2.54671485	0.251	0.783	0
Ubd	0	9.83865275	0.837	0.005	0	Acaa1b	0	-2.74433562	0.209	0.717	0
H2-Ab1	0	5.11695317	0.881	0.074	0	Nat8f3	0	-2.7268382	0.227	0.729	0
H2-Eb1	0	5.53639722	0.86	0.054	0	Ak4	0	-2.34035701	0.275	0.764	0
H2-Aa	0	5.87009466	0.836	0.041	0	Dnase1	0	-4.26528261	0.048	0.53	0
Stat1	0	5.5469071	0.922	0.133	0	Slc22a8	0	-2.26275684	0.198	0.649	0
H2-D1	0	4.81045156	0.988	0.244	0	Rdh16	0	-1.9413904	0.268	0.719	0
Irgm1	0	4.71790962	0.822	0.097	0	Ctnna2	0	-2.34279516	0.179	0.629	0
B2m	0	4.83271825	0.996	0.289	0	Slc22a22	0	-2.83780255	0.1	0.548	0
Ly6a	0	3.98189194	0.924	0.22	0	Nat8f6	0	-3.3704913	0.087	0.532	0
Irgm2	0	5.89949381	0.731	0.039	0	Rdh16f2	0	-1.75099403	0.383	0.804	0
Psmb8	0	6.7231884	0.697	0.016	0	Ces1f	0	-1.97035844	0.277	0.697	0
Parp14	0	5.57390653	0.722	0.045	0	Slc25a42	0	-1.89792996	0.229	0.645	0
Ly6e	0	4.61590195	0.736	0.068	0	Tin2	0	-1.81429643	0.439	0.854	0
Gbp7	0	4.8357867	0.757	0.103	0	Ugt3a2	0	-1.55595786	0.405	0.813	0
Ciita	0	5.89046963	0.677	0.026	0	Hsd3b3	0	-1.74967941	0.354	0.759	0
Nlr5	0	5.68212547	0.663	0.029	0	Pck1	0	-2.2528999	0.395	0.787	0
Gm20663	0	5.90891627	0.669	0.041	0	Gm15962	0	-2.2438485	0.218	0.601	0
Gm4951	0	10.0155525	0.631	0.003	0	Slc22a28	0	-1.49028795	0.458	0.841	0
Tmsb4x	0	3.50371784	0.91	0.295	0	Slc22a30	0	-1.58684206	0.399	0.78	0
Irf1	0	5.76695553	0.645	0.032	0	Hsd3b2	0	-1.60754985	0.308	0.684	0
Gm16685	0	3.76692301	0.735	0.134	0	Al314278	0	-1.28103171	0.406	0.782	0
Olfir56	0	7.06358272	0.591	0.014	0	Ugt13a1	0	-2.40101846	0.113	0.486	0
Vcam1	0	4.29486686	0.604	0.042	0	Dhtkd1	0	-1.84160264	0.219	0.589	0
H2-Q4	0	4.55988934	0.599	0.049	0	Adhfe1	0	-1.55206844	0.417	0.783	0
Gbp2	0	8.39294353	0.552	0.004	0	Pbld1	0	-1.38052154	0.486	0.849	0
H2-T23	0	4.41668607	0.601	0.063	0	Tef	0	-1.49123027	0.533	0.892	0
Tapbp	0	3.55702207	0.638	0.115	0	Cyp2j11	0	-1.6524007	0.342	0.7	0
Gbp8	0	6.83387144	0.53	0.011	0	Slc22a29	0	-3.52414231	0.045	0.402	0
Psmb9	0	6.9297485	0.517	0.007	0	Prodh2	0	-1.64058549	0.228	0.584	0
AW112010	0	8.51230481	0.51	0.003	0	Angptl7	0	-3.08374712	0.071	0.426	0
Tap1	0	6.67441293	0.512	0.01	0	Vegfa	0	-1.33547495	0.383	0.734	0
Cxcl10	0	6.7992193	0.502	0.007	0	G6pc	0	-2.49069307	0.141	0.491	0
C4b	0	3.65883487	0.577	0.084	0	Miox	0	-1.66108842	0.553	0.903	0
Tap2	0	4.42833292	0.528	0.046	0	Cndp1	0	-1.92028402	0.196	0.538	0
Tnfsf10	0	2.92586763	0.651	0.188	0	Ppara	0	-1.70563623	0.536	0.872	0
Herc6	0	4.33453225	0.502	0.057	0	Car12	0	-1.7039954	0.337	0.67	0
Gm12216	0	5.5400163	0.462	0.019	0	Hnf4aos	0	-1.45227356	0.551	0.882	0
Gm4841	0	10.0672104	0.426	0.001	0	Fmo2	0	-1.66917096	0.482	0.809	0
Nfkbiz	0	2.63984815	0.638	0.217	0	Cpeb3	0	-1.89861285	0.606	0.927	0
Akt3	0	3.15663777	0.537	0.117	0	Hgd	0	-1.19354378	0.554	0.875	0
Parp9	0	2.97153875	0.565	0.145	0	4930533122Rii	0	-2.54633747	0.103	0.423	0
Atp8a1	0	2.5723202	0.637	0.218	0	Cyp4b1	0	-2.03139134	0.457	0.776	0
Nuak2	0	1.7545414	0.821	0.402	0	Sord	0	-1.38994372	0.583	0.901	0
Bst2	0	4.83243372	0.443	0.028	0	Ass1	0	-1.45430712	0.551	0.861	0
Gbp3	0	6.01509987	0.426	0.015	0	Vmn1r18	0	-3.31983689	0.077	0.381	0
Rnf213	0	2.53795889	0.686	0.286	0	0610005C13Ri	0	-1.14732553	0.607	0.904	0
Actb	0	2.25028621	0.859	0.459	0	Smarca2	0	-1.20196598	0.557	0.845	0
Msn	0	1.93001033	0.781	0.399	0	Cyp2d26	0	-2.91626467	0.041	0.326	0
G830016B08R	0	8.26040291	0.379	0.002	0	Aspa	0	-1.04991668	0.597	0.88	0
Pla2g16	0	4.13753468	0.417	0.045	0	Galnt11	0	-1.1330734	0.62	0.894	0
Gm12185	0	6.63284446	0.378	0.008	0	Fnip2	0	-1.70803812	0.693	0.961	0
Stat2	0	2.71280668	0.502	0.135	0	Pah	0	-1.40252711	0.567	0.828	0
Cd274	0	6.2086166	0.383	0.017	0	Cryl1	0	-1.32947954	0.693	0.94	0
Serping1	0	6.45951563	0.37	0.008	0	Nxph1	0	-5.99650752	0.008	0.252	0
Cd52	0	6.39917057	0.367	0.007	0	Fbp1	0	-1.05282094	0.652	0.896	0
Gbp5	0	6.54414022	0.371	0.012	0	Slc6a20b	0	-1.01010584	0.674	0.915	0
Tmsb10	0	4.00792908	0.393	0.034	0	Slc34a1	0	-1.99209793	0.72	0.953	0
S100a11	0	2.12552031	0.596	0.241	0	Phyhip1	0	-1.79304555	0.722	0.953	0
Pdgfrd	0	1.98083582	0.595	0.242	0	Tnfrap8	0	-1.81208802	0.655	0.867	0
Xdh	0	4.27827453	0.395	0.046	0	Fggv	0	-1.07498884	0.773	0.957	0
Ii34	0	2.05696107	0.623	0.276	0	Kcnj15	0	-1.02599912	0.788	0.95	0
Ifi27	0	2.86652127	0.447	0.101	0	Sugct	0	-1.18073665	0.864	0.981	0
Ifitm3	0	4.31656747	0.379	0.034	0	Tanc2	0	-1.24006939	0.875	0.978	0
Rps20	0	1.69374267	0.762	0.421	0	Gk	0	-1.09340153	0.871	0.964	0
Tgtp2	0	9.45504058	0.338	0.001	0	Nox4	0	-1.44576882	0.838	0.928	0
Trpm3	0	2.31563307	0.482	0.149	0	Keg1	0	-1.64262807	0.882	0.972	0
Havcr1	0	2.43499365	0.456	0.128	0	P3h2	0	-1.01022673	0.916	0.996	0
C3	0	2.64285164	0.415	0.087	0	Ptprd	0	-1.16049784	0.988	1	0
Psmb10	0	4.69473506	0.341	0.02	0	Fut9	0	-1.14070728	0.99	0.999	0
Adamts1	0	2.45295358	0.511	0.191	0	Afm	3.682E-304	-2.49149109	0.074	0.369	8.733E-300
Plac8	0	3.66600285	0.365	0.051	0	Fam13a	1.813E-303	-1.35753785	0.464	0.774	4.3E-299
H2-T22	0	3.18878538	0.384	0.071	0	Slc22a23	2.252E-303	-1.5411588	0.511	0.783	5.342E-299
Ifit2	0	4.29619643	0.339	0.03	0	Acsms5	1.431E-300	-1.58928844	0.246	0.591	3.395E-296
Ccl5	0	5.55383607	0.304	0.009	0	Eci3	1.107E-297	-1.87918358	0.181	0.512	2.627E-293
H2-Q7	0	6.116338	0.295	0.006	0	Hykk	5.457E-290	-1.17865817	0.459	0.766	1.294E-285
Rplp1	0	1.4742054	0.75	0.462	0	Paps2	1.951E-288	-1.15797792	0.555	0.804	4.629E-284
Tmem176b	0	1.68525427	0.903	0.618	0	Aass	5.046E-285	-1.0505533	0.575	0.832	1.197E-280
Gm4070	0	8.06047703	0.286	0.002	0	Cda	4.061E-283	-1.26362949	0.404	0.72	9.631E-279
Rpl32	0	1.42167044	0.719	0.44	0	Acnat1	5.422E-282	-1.29885646	0.397	0.717	1.286E-277
Tmem176a	0	1.56918743	0.905	0.627	0	L2hgdh	1.197E-279	-1.09837388	0.507	0.791	2.839E-275
Gm10073	0	1.45453701	0.734	0.459	0	Tcn2	2.785E-278	-1.12979994	0.486	0.787	6.606E-274
H2-DMb2	0	5.84692007	0.281	0.008	0	Nlrp6	8.337E-274	-1.47936515	0.223	0.561	1.977E-269
C1s1	0	5.06544118	0.285	0.013	0	Ngef	1.362E-272	-1.33310585	0.343	0.664	3.231E-268
Spp1	0	2.85353338	0.999	0.731	0	Car14	1.031E-271	-2.97201394	0.034	0.277	2.445E-267
Atp11a	0	1.4378274	0.828	0.582	0	Cat	1.221E-270	-1.20203366	0.4	0.717	2.897E-266
Dbi	0	1.12184793	0.857	0.644	0	Rgs20	4.358E-270	-2.20593485	0.129	0.423	1.034E-265
Tpt1	0	1.15108981	0.892	0.691	0	D630029K05Ri	9.827E-265	-2.39278796	0.065	0.329	2.331E-260
Sema5a	0	1.22552297	0.872	0.731	0	Igfbbp4	2.379E-263	-1.37900404	0.305	0.629	5.643E-259
Sash1	0	1.37995015	0.881	0.759	0	Xylt1	2.195E-260	-1.2752707	0.41	0.703	5.207E-256
Fth1	0	1.22441845	0.995	0.902	0	Mertk	2.089E-257	-1.12459047	0.438	0.735	4.954E-253

Igsl5	0	1.27669139	0.943	0.855	0	Fam214a	1.256E-256	-1.11701937	0.451	0.749	2.98E-252
Rbpms	0	1.07247274	0.929	0.882	0	Chd3	1.531E-251	-1.22971412	0.38	0.689	3.631E-247
Fhod3	0	1.11688677	0.94	0.902	0	Aacs	3.546E-249	-2.63099281	0.104	0.366	8.41E-245
Gm26917	0	1.03840388	0.901	0.877	0	Ces1e	2.563E-247	-3.70669362	0.018	0.225	6.08E-243
Lyz2	3.24E-306	5.61961771	0.276	0.01	7.685E-302	Peli2	1.239E-244	-1.10153683	0.398	0.709	2.938E-240
Oasl2	3.43E-306	5.80309666	0.272	0.007	8.135E-302	Kynu	9.312E-242	-1.50637823	0.38	0.649	2.209E-237
Serpina10	1.085E-295	4.09446943	0.297	0.025	2.573E-291	Errr1	9.64E-242	-1.04216157	0.731	0.893	2.286E-237
Epst1	1.206E-283	5.81445474	0.259	0.009	2.86E-279	Gm32569	7.101E-236	-1.48279771	0.217	0.521	1.684E-231
Scl41a2	2.056E-283	2.15923815	0.484	0.179	4.878E-279	Chrna4	2.128E-234	-2.69407446	0.06	0.296	5.047E-230
Rps29	9.415E-278	1.19280911	0.781	0.547	2.233E-273	Lin7a	6.636E-234	-2.59111646	0.059	0.295	1.574E-229
H2-DMa	4.288E-275	4.75836746	0.266	0.016	1.017E-270	Gm41031	2.482E-233	-2.28764014	0.064	0.306	5.886E-229
Ppp1r12a	1.982E-274	1.00515157	0.849	0.776	4.702E-270	Abat	2.172E-232	-1.08172155	0.404	0.709	5.151E-228
Ypel2	8.241E-270	2.07421818	0.586	0.314	1.955E-265	Gabrb3	1.93E-230	-1.25091258	0.531	0.751	4.578E-226
Zbp1	3.968E-263	8.17714342	0.227	0.001	9.412E-259	Gm31718	3.856E-230	-1.7662496	0.243	0.525	9.146E-226
Tinagl1	4.859E-261	4.33536255	0.266	0.022	1.152E-256	Slc7a9	1.056E-228	-1.22576397	0.324	0.63	2.505E-224
Pigr	9.495E-261	1.55632491	0.571	0.26	2.252E-256	Vmn1r20	1.119E-228	-2.58895408	0.054	0.282	2.655E-224
Map3k1	2.935E-260	1.47879552	0.665	0.425	6.962E-256	Gatm	2.356E-225	-1.61619647	0.294	0.58	5.589E-221
Fat1	4.497E-259	1.67952055	0.582	0.308	1.067E-254	Cdk1	3.238E-224	-1.14490246	0.352	0.657	7.68E-220
Prickle2	1.039E-257	2.25855094	0.365	0.08	2.464E-253	Lipa	3.061E-218	-1.24904188	0.392	0.661	7.259E-214
Il7	1.534E-254	2.96921808	0.324	0.059	3.637E-250	Slc13a2	7.568E-218	-1.36585681	0.274	0.562	1.795E-213
Psme1	2.77E-254	2.72902876	0.357	0.082	6.569E-250	Aspdh	3.242E-216	-2.12065332	0.071	0.307	7.691E-212
Aig1	5.52E-250	1.32071814	0.678	0.421	1.309E-245	Ttc7b	8.807E-215	-1.1127355	0.357	0.65	2.089E-210
Rps24	1.426E-248	1.28333419	0.701	0.466	3.383E-244	Olfm4	6.661E-214	-1.61644905	0.146	0.418	1.58E-209
H2-DMb1	6.522E-244	4.96245054	0.234	0.011	1.547E-239	Pm20d1	1.709E-211	-1.39995514	0.233	0.517	4.054E-207
Stat3	8.25E-244	1.57347722	0.606	0.354	1.957E-239	Gm14764	3.199E-211	-2.36264955	0.082	0.318	7.587E-207
Snx10	1.813E-243	3.53594548	0.285	0.04	4.301E-239	Aldh9a1	9.478E-211	-1.52035145	0.189	0.466	2.248E-206
Sh3bgrl3	3.765E-242	3.34243821	0.295	0.047	8.929E-238	Plscr4	7.939E-210	-1.52250092	0.204	0.479	1.883E-205
Wdr89	3.98E-242	1.24207429	0.702	0.466	9.441E-238	4732463B04Ri	2.367E-209	-1.09200924	0.346	0.644	5.614E-205
Parp11	2.218E-241	2.67295592	0.356	0.09	5.26E-237	Tmem150a	1.685E-208	-1.10731992	0.358	0.657	3.996E-204
Rpl18	8.853E-239	1.54757118	0.594	0.327	2.1E-234	Hoxb3os	1.673E-204	-1.36235899	0.214	0.498	3.968E-200
Rnf19b	2.716E-238	2.60348535	0.382	0.115	6.443E-234	Fmo1	6.239E-204	-1.03063992	0.422	0.699	1.48E-199
Rps19	1.477E-236	1.23688943	0.689	0.456	3.504E-232	Gm19950	7.571E-204	-1.20444254	0.289	0.583	1.796E-199
Gm45871	7.383E-233	2.44257806	0.377	0.112	1.751E-228	Asl	4.57E-202	-1.71036055	0.159	0.42	1.084E-197
Dtx3l	4.243E-232	3.34508783	0.281	0.042	1.006E-227	Gm6999	1.236E-200	-1.0102252	0.408	0.693	2.932E-196
Samhd1	1.569E-231	2.78093064	0.356	0.096	3.722E-227	Slc35f3	2.274E-199	-1.05159839	0.411	0.692	5.394E-195
Erap1	1.704E-231	2.39180635	0.375	0.11	4.042E-227	Kmo	6.849E-199	-1.60723543	0.124	0.378	1.625E-194
Cxcl9	2.188E-229	11.398071	0.198	0	5.189E-225	Mturn	7.621E-198	-1.79818189	0.115	0.36	1.808E-193
Csf1	1.67E-227	4.02943618	0.233	0.017	3.962E-223	Spp2	2.478E-196	-2.68518224	0.045	0.245	5.878E-192
AU020206	3.601E-225	3.49696707	0.268	0.038	8.54E-221	Ttr	1.116E-194	-3.37861242	0.027	0.208	2.646E-190
Rpl14	2.329E-224	1.39348114	0.634	0.39	5.523E-220	Dbp	5.954E-194	-1.66795201	0.114	0.359	1.412E-189
Rpsa	2.645E-223	1.24545243	0.679	0.452	6.273E-219	Pxmp2	2.644E-193	-1.59283622	0.133	0.385	6.272E-189
Pasp	3.551E-223	1.23731555	0.693	0.492	8.422E-219	Acmsd	1.722E-188	-1.14848343	0.256	0.546	4.085E-184
Pfkp	2.52E-221	2.52568357	0.338	0.086	5.976E-217	Bhmt2	4.293E-188	-1.35326299	0.206	0.473	1.018E-183
Fbxw17	9.2E-221	2.6410006	0.319	0.072	2.182E-216	Sgk2	5.789E-188	-1.03939056	0.337	0.627	1.373E-183
Rplp0	5.602E-220	1.31486705	0.637	0.397	1.329E-215	Glt1d1	5.066E-187	-1.88834613	0.124	0.359	1.202E-182
Cd47	4.959E-219	1.72306422	0.512	0.256	1.176E-214	Slc16a9	3.754E-186	-1.41663044	0.394	0.653	8.903E-182
Pat2	2.511E-218	4.31247912	0.231	0.021	5.956E-214	Neu2	5.413E-186	-1.59983725	0.141	0.387	1.284E-181
Litaf	2.701E-218	2.45556342	0.335	0.084	6.405E-214	Sema4g	1.411E-185	-1.85146827	0.089	0.312	3.348E-181
Lrch1	1.253E-217	1.65487641	0.541	0.286	2.972E-213	Man2a1	1.089E-179	-1.03043456	0.367	0.641	2.583E-175
Cstb	3.287E-214	2.33374733	0.36	0.107	7.796E-210	Slc13a3	1.984E-178	-1.09658272	0.509	0.703	4.707E-174
Gvin1	5.092E-213	7.82977242	0.188	0.001	1.208E-208	Gm10271	4.336E-178	-2.17438782	0.056	0.253	1.028E-173
Unc93b1	5.886E-213	2.71669663	0.303	0.065	1.396E-208	Gm29012	3.061E-177	-5.00127948	0.004	0.141	7.26E-173
Rpl9-ps6	8.085E-210	1.35529358	0.622	0.382	1.918E-205	Acnat2	1.577E-174	-1.88678384	0.088	0.303	3.74E-170
Parp12	3.031E-208	3.59517337	0.243	0.03	7.189E-204	Acp6	2.684E-174	-1.38640963	0.173	0.422	6.367E-170
Rps27rt	9.8E-207	1.19163458	0.68	0.469	2.324E-202	Dlg2	6.852E-173	-1.90025475	0.102	0.318	1.625E-168
Txn1	3.764E-205	1.38625687	0.596	0.366	8.928E-201	Limch1	2.049E-172	-1.78979935	0.131	0.36	4.86E-168
Rpl27-ps3	1.024E-203	1.37691502	0.598	0.355	2.428E-199	Gm17276	2.521E-172	-1.35303719	0.177	0.428	5.98E-168
H2-Q6	2.405E-203	5.06910479	0.195	0.008	5.704E-199	Cyp2e1	3.152E-172	-3.00831983	0.03	0.197	7.477E-168
Ddx58	2.502E-203	1.7509736	0.457	0.202	5.935E-199	Gm15318	1.527E-170	-1.26488964	0.198	0.456	3.623E-166
Pfn1	1.312E-202	1.69849844	0.503	0.253	3.111E-198	Sypl2	2.438E-170	-1.42251754	0.164	0.407	5.783E-166
Rpl19	1.568E-202	1.14359414	0.682	0.467	3.718E-198	Dmgd2	2.447E-167	-1.29398473	0.209	0.46	5.803E-163
Wfdc2	3.633E-199	1.29022344	0.638	0.407	8.617E-195	Acad11	1.637E-165	-1.0647126	0.296	0.556	3.883E-161
Radc51b	9.373E-198	2.61740929	0.333	0.098	2.223E-193	Lrit3	2.788E-165	-3.78533186	0.012	0.153	6.612E-161
C1qb	1.421E-196	6.34639802	0.18	0.003	3.37E-192	Usp2	1.341E-164	-1.21860972	0.221	0.473	3.18E-160
Nmi	2.014E-196	2.29724579	0.336	0.098	4.778E-192	Abhd18	2.373E-164	-1.04857653	0.292	0.558	5.629E-160
Gm20696	1.171E-195	3.44454688	0.237	0.033	2.778E-191	Clec2h	1.133E-162	-2.95662361	0.042	0.213	2.687E-158
Rpl27a	5.161E-195	1.35569886	0.608	0.386	1.224E-190	Akr1d1	3.116E-161	-1.50412696	0.114	0.333	7.391E-157
Mcc	9.151E-195	2.64059922	0.369	0.13	2.171E-190	Notum	2.283E-160	-2.7529578	0.026	0.182	5.415E-156
Zc3hav1	1.057E-191	2.13722442	0.348	0.11	2.508E-187	Ccdc107	4.633E-160	-1.0110944	0.316	0.584	1.099E-155
Xaf1	2.983E-191	4.56981219	0.193	0.011	7.076E-187	Ackr4	1.919E-158	-1.54931892	0.133	0.356	4.552E-154
Gmids	6.806E-191	1.1944292	0.63	0.395	1.614E-186	Sfxn2	1.322E-156	-1.0746016	0.254	0.511	3.136E-152
Ackr3	1.534E-190	1.448975	0.529	0.283	3.637E-186	Isoc2a	3.174E-155	-1.68493666	0.102	0.308	7.528E-151
Clc1	2.61E-190	1.73444749	0.463	0.22	6.191E-186	Herpud1	7.527E-155	-1.07711421	0.251	0.505	1.785E-150
Adgrg1	1.224E-187	1.6053605	0.48	0.239	2.904E-183	Slc26a1	7.912E-154	-1.19913161	0.19	0.43	1.877E-149
Il18bp	9.01E-186	4.05168673	0.204	0.02	2.137E-181	F13b	4.294E-153	-1.98682754	0.05	0.224	1.018E-148
Rps8	1.9E-185	1.0057668	0.705	0.504	4.507E-181	Glul	1.244E-152	-1.18174629	0.305	0.552	2.95E-148
Fabp7	2.6E-185	4.69279782	0.19	0.012	6.168E-181	Acot3	1.485E-151	-3.36657921	0.013	0.147	3.523E-147
Rps9	1.91E-184	1.18905252	0.639	0.43	4.531E-180	Iqgms	7.054E-151	-1.2438486	0.176	0.411	1.673E-146
Trafd1	1.527E-182	2.6338544	0.283	0.068	3.621E-178	Lpcm	1.853E-148	-2.56881512	0.04	0.199	4.395E-144
Parp10	6.739E-182	1.72194139	0.446	0.209	1.598E-177	Slc5a2	2.696E-146	-1.20076012	0.275	0.51	6.394E-142
Gm20513	4.059E-179	5.85670861	0.17	0.005	9.627E-175	Tcea3	4.653E-145	-1.03390285	0.247	0.496	1.104E-140
S100a10	2.32E-176	1.72831825	0.431	0.196	5.503E-172	Gpam	3.279E-144	-1.45446701	0.133	0.343	7.777E-140
Slco1a1	2.437E-176	2.99049848	0.251	0.051	5.78E-172	Gcdh					

Trim12c	3.425E-164	2.26541651	0.3	0.091	8.123E-160	Sic34a3	1.526E-131	-2.64906177	0.024	0.157	3.62E-127
Irf7	3.583E-164	4.61631454	0.165	0.008	8.5E-160	Ppm1k	3.223E-130	-1.58213135	0.162	0.36	7.645E-126
Plau	8.026E-163	1.03040643	0.583	0.33	1.904E-158	Gm4450	6.716E-129	-1.20166826	0.275	0.495	1.593E-124
Ly75	5.919E-162	5.92015866	0.153	0.004	1.404E-157	Haao	6.793E-129	-1.18885806	0.155	0.365	1.611E-124
Lgals1	3.642E-161	2.02040194	0.338	0.124	8.639E-157	Acvr2b	1.006E-128	-1.43904231	0.143	0.339	2.387E-124
Smad2	1.58E-158	1.2399501	0.573	0.384	3.748E-154	Trdn	5.715E-128	-2.88946309	0.044	0.189	1.355E-123
Rpl17	8.742E-158	1.39548066	0.515	0.297	2.074E-153	Gm13412	6.626E-128	-3.71991469	0.008	0.116	1.572E-123
Cp	7.134E-154	1.50043021	0.462	0.241	1.692E-149	Cyp4a14	2.749E-125	-4.46154158	0.005	0.107	6.521E-121
Calr	1.494E-152	1.11861989	0.617	0.433	3.544E-148	Rorc	6.403E-125	-1.42064954	0.101	0.285	1.519E-120
Zfp981	3.115E-151	3.21501062	0.2	0.032	7.389E-147	Tmem25	7.239E-125	-1.25410489	0.141	0.34	1.717E-120
S100a6	4.591E-151	1.95848189	0.302	0.099	1.089E-146	Sic16a14	1.51E-123	-1.79023568	0.095	0.269	3.581E-119
Sept11	2.23E-148	1.10253321	0.619	0.451	5.29E-144	Pagr7	7.052E-123	-1.64258976	0.083	0.253	1.673E-118
Socs1	6.62E-147	7.76736378	0.134	0.001	1.57E-142	Aqp2	5.047E-122	-1.30365434	0.148	0.349	1.197E-117
Mlkl	8.653E-147	4.92616774	0.15	0.008	2.052E-142	Bcat2	5.062E-119	-1.14831274	0.152	0.352	1.201E-114
Naaladl2	1.133E-145	1.36418801	0.491	0.28	2.687E-141	Cit	1.532E-118	-1.0916179	0.193	0.4	3.635E-114
Dexi	3.109E-145	2.00290495	0.314	0.114	7.373E-141	Gm48321	2.984E-118	-1.52463515	0.157	0.345	7.078E-114
Rps3	2.508E-144	1.17809497	0.567	0.371	5.949E-140	AC135964.2	4.731E-118	-1.32532364	0.129	0.315	1.122E-113
Idnk	3.151E-143	1.98389387	0.308	0.11	7.475E-139	Vmm1r19	2.96E-117	-2.31119353	0.026	0.15	7.02E-113
Icam1	3.738E-143	2.43701409	0.267	0.081	8.866E-139	Acaa2	3.028E-117	-1.61058844	0.072	0.231	7.182E-113
Lgals3bp	7.56E-143	3.12443791	0.193	0.032	1.793E-138	Zfp395	1.853E-116	-1.53118645	0.085	0.251	4.394E-112
Birc3	2.788E-141	1.99989541	0.5	0.105	6.613E-137	Gm40123	1.964E-116	-1.47163566	0.098	0.27	4.658E-112
Myh9	6.748E-141	1.16415084	0.37	0.394	1.6E-136	Sic37a4	3.128E-116	-1.27800429	0.101	0.278	7.418E-112
Rps16	3.899E-140	1.21197634	0.533	0.335	9.249E-136	Lrp4	5.338E-116	-1.32847526	0.109	0.287	1.266E-111
Sbno2	5.801E-139	1.55776455	0.434	0.237	1.376E-134	Sic35f1	2.378E-113	-1.7425675	0.087	0.248	5.64E-109
Gm9951	1.601E-138	2.13598031	0.279	0.091	3.798E-134	Gm48383	2.652E-113	-2.03152964	0.047	0.185	6.29E-109
Rps4x	6.152E-138	1.23087737	0.531	0.335	1.459E-133	Mgil	3.587E-113	-1.97643754	0.051	0.192	8.509E-109
C1ra	1.099E-137	4.0842087	0.152	0.013	2.608E-133	Gm26854	6.099E-113	-1.27382736	0.159	0.35	1.447E-108
Tspo	2.528E-137	1.68052564	0.395	0.197	5.996E-133	Aqp11	2.791E-110	-1.36207477	0.092	0.258	6.62E-106
Anxa5	3.65E-137	2.10515087	0.285	0.098	8.657E-133	Aamd	3.659E-110	-1.19252497	0.134	0.318	8.679E-106
Sbspy	4.766E-137	1.97742274	0.286	0.096	1.13E-132	Pdk2	6.984E-110	-1.04930168	0.166	0.363	1.656E-105
Tnfaip8l3	1.407E-136	4.07954271	0.15	0.012	3.338E-132	Hmgcs2	1.293E-109	-3.56608429	0.008	0.104	3.067E-105
Rps5	1.043E-135	3.6399304	0.478	0.284	2.473E-131	Sms	9.846E-109	-1.48515461	0.08	0.236	2.35E-104
Arhgap8	1.29E-134	3.87857096	0.153	0.015	3.061E-130	Sardh	9.945E-108	-1.1835765	0.119	0.295	2.359E-103
Usp18	1.217E-133	4.33964303	0.145	0.011	2.887E-129	Acoc3	2.431E-107	-1.16138935	0.153	0.336	5.676E-103
Zbed3	2.223E-133	1.74599345	0.408	0.22	5.273E-129	Zfp467	6.973E-107	-1.09378984	0.17	0.362	1.654E-102
Rps15	3.03E-132	1.00213367	0.63	0.467	7.188E-128	Fmn1l	1.679E-106	-1.03674038	0.167	0.358	3.982E-102
Stra6l	5.087E-130	2.31620733	0.243	0.071	1.207E-125	Sud3	1.722E-106	-1.15735471	0.151	0.336	4.084E-102
Sic44a3	7.213E-130	3.35507633	0.172	0.026	1.711E-125	Adra1a	8.922E-106	-1.16491542	0.264	0.457	2.116E-101
Gab3	2.56E-129	2.60429808	0.2	0.043	6.072E-125	Gm10804	1.693E-105	-1.31253166	0.099	0.265	4.015E-101
Ngf	2.608E-129	2.48768749	0.182	0.031	6.187E-125	Acy1	5.146E-105	-1.10602349	0.142	0.328	1.221E-100
Pced1b	3.362E-128	2.86353377	0.186	0.035	7.975E-124	Prodh	1.598E-104	-1.03147124	0.211	0.408	3.789E-100
Ctss	4.426E-128	5.46925703	0.125	0.004	1.05E-123	Sic15a4	1.163E-103	-1.49512629	0.09	0.245	2.758E-99
Dysf	1.726E-127	2.958024	0.167	0.024	4.093E-123	Irs2	3.552E-103	-1.4052931	0.097	0.257	8.425E-99
Neurl3	1.811E-127	5.03141449	0.129	0.006	4.296E-123	Enpp1	5.074E-103	-1.59770341	0.063	0.205	1.2035E-98
Creb5	1.915E-127	1.86502867	0.222	0.056	4.542E-123	Egf	2.86E-101	-1.22162159	0.11	0.277	6.7844E-97
Rpl26	2.072E-127	1.39178807	0.443	0.25	4.914E-123	Tmem178	9.057E-101	-1.24451272	0.118	0.285	2.1483E-96
Cadps2	2.503E-127	1.98102563	0.325	0.137	5.937E-123	Vwce	1.503E-100	-1.31763758	0.094	0.251	3.5651E-96
Irfh1	6.983E-127	2.12084859	0.258	0.084	1.656E-122	Gm45083	4.874E-100	-1.02813534	0.146	0.326	1.1561E-95
Mgp	1.238E-125	3.39460998	0.166	0.026	2.936E-121	Atxn7l2	1.073E-99	-1.85255478	0.037	0.158	2.5442E-95
Utrn	1.658E-125	1.05327149	0.455	0.228	3.932E-121	Gm15883	3.183E-99	-2.04407123	0.03	0.144	7.55E-95
Usp25	1.733E-125	1.04115746	0.578	0.424	4.11E-121	Ggnbp1	5.273E-99	-1.28854232	0.11	0.271	1.2507E-94
Ube2l6	3.715E-125	5.02689631	0.122	0.004	8.811E-121	Tmem131l	2.6955E-98	-1.38763271	0.105	0.261	6.3935E-94
Psd3	8.232E-124	1.16430387	0.262	0.082	1.953E-119	Gm48606	2.9776E-98	-2.42464536	0.028	0.138	7.0627E-94
Tapbpl	1.233E-123	2.38006261	0.228	0.065	2.924E-119	Sic39a5	3.3297E-98	-2.16550741	0.027	0.137	7.8978E-94
Hync1h1	1.62E-123	1.0074786	0.593	0.441	3.844E-119	Cyp2j7	3.4437E-98	-1.34091901	0.1	0.255	8.1682E-94
Heph	2.773E-123	1.40874896	0.453	0.269	6.577E-119	Gm49380	1.1393E-96	-1.38565691	0.09	0.24	2.7024E-92
Rpl22	9.644E-123	1.19966838	0.502	0.318	2.288E-118	Sic8a1	2.3972E-96	-1.17910103	0.059	0.193	5.6859E-92
Lypd6b	1.603E-122	3.19823829	0.159	0.023	3.801E-118	Gjb1	6.1357E-95	-2.19271474	0.028	0.135	1.4553E-90
Misp	1.946E-122	2.23551865	0.215	0.056	4.617E-118	C330002G04R	2.409E-94	-1.10902799	0.183	0.359	5.7139E-90
Isg15	2.046E-122	5.637939	0.118	0.003	4.852E-118	9630028H03Rl	3.8217E-94	-1.32486027	0.117	0.276	9.0647E-90
Specc1	3.764E-120	2.10010709	0.238	0.073	8.929E-116	Fam151a	4.6055E-94	-1.33222408	0.096	0.247	1.0924E-89
Ankrd6	9.102E-120	1.15469644	0.483	0.289	2.159E-115	Gm36975	9.643E-94	-1.01481914	0.21	0.393	2.2872E-89
Scin	4.506E-119	1.60187886	0.246	0.077	1.069E-114	Tsc2d23	1.059E-93	-1.1177707	0.133	0.3	2.5119E-89
Rtp4	5.187E-119	3.37740869	0.15	0.02	1.23E-114	Lonrf3	3.3728E-93	-1.5190602	0.068	0.204	8.0001E-89
Rpl21	3.429E-117	3.41733677	0.157	0.025	8.133E-113	Lonrf1	5.0234E-93	-1.34597095	0.091	0.237	1.1915E-88
Gpc3	5.219E-117	1.91660365	0.249	0.081	1.238E-112	Gm45051	8.4861E-92	-1.75925881	0.038	0.153	2.0128E-87
Plekhh3	1.365E-116	1.38236791	0.404	0.218	3.239E-112	Pqlc2	1.0566E-91	-1.19767105	0.118	0.275	2.5062E-87
Rpl29	1.472E-116	4.82942391	0.122	0.007	3.492E-112	Dcxr	7.0838E-90	-1.23361481	0.085	0.228	1.6802E-85
Gm6034	3.013E-116	2.82890781	0.174	0.035	7.148E-112	Kcnc2	1.1743E-89	-1.467409	0.093	0.236	2.7854E-85
Lgals3	1.196E-115	2.69999452	0.187	0.043	2.837E-111	Sic28a1	1.3382E-89	-1.14929237	0.132	0.293	3.174E-85
Arhgap15	1.592E-115	1.79076862	0.338	0.16	3.775E-111	Gm16170	1.4025E-89	-1.58189596	0.065	0.194	3.3267E-85
C1s2	3.688E-115	5.31396083	0.113	0.004	8.747E-111	Coq8a	2.1788E-89	-1.25184015	0.078	0.217	5.1678E-85
Calm1	9.733E-115	1.33673992	0.432	0.253	2.309E-110	Flvcr2	2.9014E-89	-1.01201195	0.137	0.3	6.8817E-85
Vim	2.177E-114	4.17139451	0.129	0.011	5.163E-110	Lpin1	6.2317E-89	-1.06884335	0.138	0.301	1.4781E-84
Cdh1	4.015E-114	1.45570953	0.392	0.21	9.523E-110	Cyp2d22	8.9832E-89	-1.26058058	0.11	0.26	2.1307E-84
G3bp2	2.475E-113	1.30294552	0.43	0.251	5.871E-109	4930517O19R	1.3485E-88	-1.16635748	0.14	0.3	3.1986E-84
Susd1	3.579E-113	2.56602566	0.189	0.045	8.49E-109	AC140300.3	2.7529E-88	-2.25770586	0.029	0.131	6.5295E-84
Tgm2	5.214E-113	1.34145617	0.42	0.239	1.237E-108	Gm15298	2.5975E-87	-3.04088525	0.017	0.106	6.1611E-83
Laptm4a	4.124E-112	1.1486157	0.499	0.329	9.782E-108	Aspg	2.5627E-85	-1.12377697	0.138	0.296	6.0785E-81
Tyrobp	3.454E-111	5.33315683	0.111	0.004	8.192E-107	Aqp4	7.0981E-85	-2.85118121	0.021	0.114	1.6836E-80
Col18a1	4.721E-111	1.32727867	0.377	0.192	1.12E-106	Cnnm1	9.938E-85	-1.13855446	0.137	0.293	2.3572E-80
Serpinh9	8.275E-111	3.62216805	0.142	0.019	1.963E-106	Cyflp2	1.0782E-84	-1.01446775	0.212	0.386	2.5574E-80
Rpl39											

Ppa1	8.943E-101	2.27566489	0.199	0.06	2.1212E-96	Accs1	4.5165E-76	-1.46790939	0.125	0.261	1.0713E-71
Brip1	6.195E-99	2.96547723	0.151	0.03	1.4693E-94	Tmem64	1.6156E-75	-1.04747904	0.128	0.272	3.832E-71
Lcn2	1.6152E-98	3.19616936	0.128	0.017	3.8312E-94	Gm13561	3.4232E-75	-1.27997163	0.095	0.225	8.1195E-71
Dpysl3	1.944E-98	1.80566204	0.211	0.066	4.6109E-94	Nat8	6.6918E-75	-1.12032219	0.157	0.306	1.5872E-70
Adgrg3	3.4586E-98	3.41722352	0.123	0.015	8.2034E-94	Cyp2d9	1.4186E-74	-1.69887639	0.045	0.148	3.3648E-70
Timd2	4.6176E-98	1.653111	0.297	0.137	1.0952E-93	Gm30097	1.4478E-74	-1.10117992	0.096	0.23	3.434E-70
NfkB1	1.5361E-97	1.10866573	0.495	0.339	3.6435E-93	Spock3	3.6015E-74	-1.57041063	0.047	0.152	8.5424E-70
Tenn3	2.3579E-97	1.570804	0.31	0.144	5.5927E-93	Grb7	1.2321E-73	-1.01234585	0.126	0.268	3.1382E-69
Frk	2.6228E-97	1.35606449	0.368	0.198	6.221E-93	Gm14437	2.5092E-72	-2.26913859	0.022	0.105	5.9515E-68
Ifi44l	3.313E-97	4.97524193	0.101	0.005	7.8581E-93	Lpl	4.5285E-72	-1.17687886	0.119	0.257	1.0741E-67
Ttc39b	3.5023E-97	2.38507866	0.183	0.05	8.3071E-93	AC166995.1	8.0828E-71	-1.11783384	0.085	0.209	1.9172E-66
Rpl11	1.5213E-96	1.15994248	0.459	0.301	3.6085E-92	Ehhadh	8.5138E-71	-1.15901456	0.317	0.474	2.0194E-66
Ncam1	4.1759E-96	2.11354456	0.197	0.06	9.9049E-92	Adgrb3	5.139E-70	-2.16201929	0.089	0.206	1.2189E-65
Asap3	3.7797E-95	1.44198519	0.356	0.194	8.9651E-91	Nol4	7.6227E-69	-1.93775066	0.036	0.127	1.808E-64
Mid1	4.0905E-95	1.2288199	0.453	0.287	9.7021E-91	Abcb1b	1.325E-67	-1.55386378	0.048	0.146	3.1427E-63
Pigrkt	7.7415E-95	1.57919688	0.293	0.136	1.8362E-90	Cyp51	1.6348E-67	-1.39823867	0.141	0.271	3.8777E-63
Fyb2	2.8084E-94	1.11817484	0.402	0.233	6.6613E-90	Etv5	1.5882E-66	-1.01910865	0.13	0.264	3.7671E-62
Gm8126	3.8224E-94	1.79871231	0.239	0.091	9.0664E-90	Gm21057	2.6156E-66	-1.67556522	0.034	0.123	6.204E-62
Adar	1.9151E-93	1.46014883	0.315	0.155	4.5425E-89	Cyp2f2	2.1604E-65	-1.6416476	0.032	0.119	5.1243E-61
Tsc22d1	7.6892E-93	1.15102222	0.452	0.297	1.8238E-88	D630023F18Ri	6.5914E-65	-1.97555575	0.032	0.117	1.5634E-60
Mvp	1.1764E-92	2.01651414	0.205	0.068	2.7904E-88	Slc7a8	8.2322E-63	-1.1979388	0.128	0.256	1.9526E-58
Rpl4	3.6548E-92	1.18927846	0.433	0.276	8.6687E-88	Gm12962	5.8273E-62	-1.87954488	0.031	0.112	1.3822E-57
Ctsc	4.316E-92	4.30806915	0.102	0.008	1.0237E-87	Sardhos	6.3252E-62	-1.25413891	0.059	0.16	1.5003E-57
Ifi2712a	6.5851E-92	3.26883215	0.119	0.016	1.5619E-87	Retsat	8.7903E-62	-1.19088862	0.055	0.154	2.085E-57
Mfge8	8.9316E-92	3.20491168	0.125	0.019	2.1185E-87	Slc5a4a	1.2621E-60	-1.97657684	0.063	0.159	2.9935E-56
Ctps	6.7969E-91	1.52008143	0.319	0.163	1.6122E-86	Gm34868	5.0902E-60	-1.45170278	0.044	0.133	1.2074E-55
Rpl24	1.4894E-90	1.0845556	0.466	0.308	3.5328E-86	Rsph3b	7.0389E-60	-1.05139248	0.096	0.211	1.6696E-55
Rack1	1.8014E-90	1.05444824	0.49	0.344	4.2728E-86	Fam228b	9.7646E-60	-1.49182829	0.046	0.137	2.3161E-55
Sesn3	2.2938E-90	1.23727673	0.403	0.241	5.4407E-86	Bbox1	3.0658E-59	-1.32564753	0.098	0.209	7.2717E-55
Pomp	1.7466E-89	1.70229939	0.275	0.127	4.1428E-85	Rfng	2.2864E-58	-1.34165279	0.053	0.146	5.4231E-54
Ifi35	9.7202E-89	2.18947012	0.18	0.053	2.3055E-84	Car4	5.3933E-58	-1.08132751	0.094	0.205	1.2792E-53
Socs2	1.8157E-88	1.41366155	0.334	0.176	4.3065E-84	Wdr17	8.6403E-58	-1.06132243	0.668	0.775	2.0049E-53
Plin2	2.69E-88	2.13652991	0.201	0.07	6.3804E-84	Gm47320	1.1899E-57	-1.7887726	0.035	0.115	2.8224E-53
Btg1	3.0329E-88	1.60977533	0.266	0.119	7.1938E-84	Accs20s	1.5767E-57	-1.70810446	0.027	0.102	3.7398E-53
Rpl18a	3.1748E-88	1.13828342	0.432	0.274	7.5302E-84	Zmynd10	3.2776E-57	-1.5174512	0.034	0.113	7.7741E-53
Apobec3	1.0399E-87	3.6781037	0.104	0.01	2.4666E-83	Rnase4	2.9698E-56	-1.9383403	0.031	0.107	7.0442E-52
Nup210	1.0712E-87	1.58833505	0.267	0.119	2.5409E-83	Cntnap2	3.1737E-56	-1.24434968	0.067	0.165	7.5278E-52
Dgkg	7.3171E-87	1.04348557	0.464	0.308	1.7355E-82	A630001O12R	8.8248E-56	-1.84770225	0.027	0.101	2.0931E-51
Sectm1b	3.043E-86	2.3396341	0.157	0.04	7.2176E-82	Shmt2	9.4387E-56	-1.15386657	0.065	0.163	2.2388E-51
Parp3	4.7864E-86	1.38127814	0.323	0.169	1.1353E-81	Gm11342	1.8357E-55	-1.04675458	0.183	0.312	4.3542E-51
Capns1	1.9592E-84	1.43602262	0.314	0.164	4.647E-80	Tcp11l2	2.3229E-55	-1.39457576	0.044	0.129	5.5097E-51
KlIf6	5.2658E-84	1.67883113	0.268	0.125	1.249E-79	Slc22a27	5.3323E-55	-1.83053657	0.03	0.105	1.2648E-50
Myof	1.1957E-83	1.13734119	0.313	0.155	2.8361E-79	Gprn3	1.0252E-54	-1.14145406	0.084	0.187	2.4317E-50
Ccdc178	4.3513E-82	1.60089038	0.234	0.096	1.0321E-77	Gm48249	1.2213E-54	-1.2339379	0.053	0.144	2.8969E-50
Etf2ak2	5.0023E-82	1.54205838	0.275	0.132	1.1865E-77	Fmo5	1.7317E-53	-1.20716076	0.083	0.184	4.1073E-49
Slc34a2	3.2414E-81	3.01087751	0.107	0.015	7.6882E-77	Unc13c	7.8681E-53	-1.13775437	0.121	0.233	1.8662E-48
Fkbp1a	1.1307E-80	1.26448685	0.361	0.214	2.6819E-76	Cxcl12	2.1566E-52	-1.01584512	0.069	0.165	5.1152E-48
Plekha2	1.411E-80	1.59173372	0.256	0.116	3.3468E-76	Hsd11b2	8.5313E-51	-1.48160645	0.031	0.104	2.0235E-48
Fer	3.0557E-80	1.0498902	0.431	0.279	7.2479E-76	Esrp2	2.7777E-50	-1.4864232	0.039	0.116	6.5885E-46
A930015D03F	7.7149E-80	1.33870867	0.312	0.165	1.8299E-75	Dlxd1	8.3798E-50	-1.03200557	0.075	0.17	1.9876E-45
Gm9844	2.0907E-79	3.49968805	0.105	0.015	4.959E-75	C1qtnf3	1.2218E-49	-1.09521794	0.083	0.18	2.898E-45
Tor3a	2.8849E-79	2.49128582	0.141	0.035	6.8427E-75	Gm14320	1.2479E-47	-1.51624182	0.035	0.106	2.9598E-43
Slc14a	1.9678E-78	1.44528291	0.269	0.128	4.6673E-74	Pik3c2g	1.3843E-47	-1.62210384	0.037	0.11	3.2835E-43
Bcl3	5.2826E-78	2.20525	0.159	0.047	1.253E-73	Gsta2	2.0825E-47	-1.26746762	0.046	0.124	4.9396E-43
Gm7030	5.3317E-78	3.01323488	0.117	0.022	1.2646E-73	Fam107a	2.9182E-47	-1.18200443	0.114	0.216	6.9216E-43
Tagln2	1.2298E-77	1.91833436	0.194	0.071	2.917E-73	Slc27a1	3.478E-47	-1.03811955	0.067	0.155	8.2495E-43
Ugt2b37	1.0232E-76	2.10723638	0.185	0.066	2.4269E-72	Serpinb8	9.5777E-47	-1.47475546	0.036	0.107	2.2717E-42
A230050P20R	1.0673E-76	1.8954645	0.173	0.056	2.5316E-72	A930033H14R	1.4292E-46	-1.53956434	0.037	0.108	3.39E-42
S100a1	2.4307E-76	1.20646016	0.386	0.244	5.7654E-72	Ctsf	1.5739E-46	-1.2744391	0.043	0.118	3.7332E-42
Spag6l	2.6207E-76	1.34271946	0.329	0.188	6.2159E-72	Cdh4	2.8559E-46	-1.30049238	0.037	0.109	6.7738E-42
Mt1	1.986E-75	1.25972002	0.307	0.166	4.7107E-71	Nr1d1	6.8691E-46	-1.08223275	0.059	0.142	1.6293E-41
Jazf1	3.3012E-75	2.09674048	0.139	0.035	7.8302E-71	Abcb1a	2.286E-45	-1.33063522	0.052	0.131	5.4222E-41
Zscan21	1.1045E-74	1.32756905	0.325	0.185	2.6197E-70	Gm13856	5.0238E-45	-1.15306254	0.068	0.153	1.1916E-40
Fam83g	2.9141E-74	1.21356253	0.525	0.414	6.9119E-70	Nxpe3	1.6415E-44	-1.06913982	0.109	0.207	3.8934E-40
Rps26	4.0137E-74	1.1618036	0.386	0.246	9.52E-70	Gm11659	2.6465E-42	-1.02815253	0.059	0.138	6.2773E-38
Gdf15	6.2686E-73	2.18664324	0.144	0.04	1.4868E-68	1700110K17Ri	3.252E-42	-1.11161253	0.101	0.195	7.7133E-38
Eda	2.0011E-72	1.68474892	0.213	0.089	4.7464E-68	AC110166.2	5.0003E-42	-1.16101437	0.055	0.131	1.186E-37
Cebpb	3.0918E-72	2.0228448	0.172	0.06	7.3334E-68	Mast3	2.0402E-40	-1.23874743	0.055	0.129	4.8392E-36
Abhd2	4.874E-72	1.01421714	0.384	0.24	1.1561E-67	Mroh7	7.3002E-40	-1.02249178	0.067	0.146	1.7315E-35
Gnal2	3.7033E-71	1.18853308	0.362	0.225	8.7838E-67	Kcnb2	1.1828E-39	-1.12126448	0.062	0.139	2.8055E-35
Hdac7	1.0957E-69	1.61998923	0.188	0.071	2.5989E-65	Cln2	1.9732E-39	-1.17392912	0.048	0.117	4.6803E-35
Dynl1	2.0623E-69	1.27979379	0.298	0.163	4.8916E-65	Gm42397	3.5524E-37	-1.12897605	0.218	0.319	8.426E-33
Efnhd2	2.9464E-69	2.22074898	0.148	0.046	6.9887E-65	Slc25a3a	1.5923E-36	-1.07663973	0.041	0.105	3.7767E-32
Rps14	5.8573E-69	1.02982126	0.429	0.297	1.3893E-64	Tlcd1	2.9844E-36	-1.13397405	0.04	0.103	7.0788E-32
Cfl1	1.1064E-68	1.43755457	0.278	0.149	2.6242E-64	Gm15396	1.5936E-34	-1.07233267	0.205	0.306	3.78E-30
Phactr1	1.4705E-68	1.33880181	0.2	0.081	3.4879E-64	Gm45645	1.9294E-34	-1.00833397	0.07	0.143	4.5764E-30
Rps10	1.5984E-68	1.09838287	0.4	0.27	3.7913E-64	Gldc	2.8161E-34	-1.04153673	0.114	0.198	6.6795E-30
Coro1c	1.6655E-68	1.18307612	0.35	0.216	3.9504E-64	Efn1	3.8124E-34	-1.07915229	0.045	0.107	9.0426E-30
Adap1	2.9375E-68	1.54875104	0.222	0.099	6.9674E-64	4933406C10Ri	1.4303E-29	-1.05135436	0.045	0.102	3.3926E-25
Rps12-ps3	3.7475E-68	1.23750361	0.328	0.197	8.8866E-64	4930545L23Ri	6.3527E-24	-1.01260641	0.057	0.112	1.5068E-19
Rhob	2.201E-67	2.28456371	0.133	0.037	5.2206E-63	C8a	2.8442E-17	-1.10252385	0.101	0.152	6.7462E-13
Taf1c	3.9731E-67	1.10705801	0.402	0.274	9.4239E-6						

E2f3	1.8122E-60	1.30427077	0.261	0.139	4.2983E-56
Twsg1	2.3797E-60	1.51121229	0.199	0.088	5.6445E-56
Tpm4	1.1905E-59	2.04478315	0.141	0.047	2.8239E-55
Ccdc30	1.2891E-59	1.2319742	0.299	0.176	3.0577E-55
Cmtm7	1.5924E-58	2.46037709	0.105	0.025	3.7771E-54
My112a	2.5054E-58	1.42102238	0.24	0.126	5.9425E-54
Eif1a	1.511E-57	1.30249092	0.27	0.154	3.584E-53
Acs15	7.4048E-57	1.46833208	0.194	0.087	1.7564E-52
Nlrc4	1.2506E-56	1.07248438	0.378	0.264	2.9663E-52
Grn	4.2521E-56	1.29778507	0.267	0.151	1.0086E-51
Mgst1	4.9489E-56	1.39413548	0.242	0.13	1.1738E-51
Trim6	6.2954E-56	2.45965366	0.101	0.025	1.4932E-51
Ano9	9.1901E-56	1.87108356	0.148	0.056	2.1798E-51
Acot9	1.1123E-55	1.35852662	0.234	0.121	2.6382E-51
Kcnb1	1.5281E-55	2.10391452	0.109	0.029	3.6245E-51
Tcea19	3.3748E-55	1.75055467	0.167	0.07	8.0046E-51
Helz2	8.2062E-55	2.25054911	0.102	0.025	1.9464E-50
Psm7	3.0604E-54	1.15862528	0.309	0.193	7.259E-50
Ubash3b	5.4124E-54	1.2298799	0.287	0.17	1.2838E-49
H2afz	6.9712E-54	1.31463259	0.279	0.168	1.6535E-49
Actn1	9.2867E-54	1.4405415	0.216	0.109	2.2027E-49
Npas2	1.2207E-53	1.67573718	0.153	0.06	2.8953E-49
Wipf1	2.9169E-53	1.35044284	0.193	0.089	6.9187E-49
Cd9	3.6886E-53	1.49745694	0.184	0.084	8.749E-49
Zgrf1	4.3681E-53	2.28948387	0.122	0.04	1.0361E-48
Npl	1.6402E-52	1.28584009	0.265	0.152	3.8903E-48
Selenow	1.7178E-52	1.95331557	0.139	0.052	4.0745E-48
Gda	2.2473E-52	1.82485541	0.137	0.05	5.3304E-48
Lrriq1	2.6714E-52	1.81651501	0.131	0.045	6.3364E-48
Gm26632	2.851E-51	1.15041605	0.321	0.209	6.7622E-47
Aida	4.9901E-51	1.45169542	0.192	0.092	1.1836E-46
Ccng1	1.0607E-50	1.16624718	0.282	0.172	2.516E-46
Nipal2	1.2414E-50	1.02353814	0.339	0.224	2.9446E-46
Tlr3	1.8292E-50	2.05226766	0.109	0.032	4.3386E-46
Cds1	3.0237E-50	1.0525489	0.337	0.226	7.172E-46
Crybg1	7.1896E-50	1.21533156	0.26	0.151	1.7053E-45
Hprt	7.8432E-50	1.2474332	0.26	0.152	1.8603E-45
Rgs6	1.4992E-49	1.79397886	0.154	0.065	3.5559E-45
Apobec1	4.7899E-48	1.37163563	0.178	0.083	1.1361E-43
Sparc	8.9636E-48	2.01213199	0.112	0.036	2.1261E-43
Ccdc122	1.0193E-47	1.60505797	0.137	0.053	2.4177E-43
Clu	1.3441E-47	1.13666582	0.259	0.152	3.188E-43
Dnm3	1.402E-47	2.15909351	0.118	0.041	3.3254E-43
Dbnl	2.1074E-47	1.46416064	0.19	0.095	4.9986E-43
2310001H17R	2.6259E-47	1.1074811	0.279	0.173	6.2285E-43
Tuba1b	3.5773E-47	1.56919165	0.159	0.07	8.4851E-43
Tnfrsf1a	5.1948E-47	1.65750796	0.15	0.064	1.2322E-42
Spns3	1.1286E-46	1.31650384	0.163	0.072	2.677E-42
Gmpr	1.5422E-46	1.17534973	0.292	0.188	3.658E-42
Rnf135	1.7481E-46	1.08949542	0.299	0.193	4.1463E-42
Pdgfb	2.3925E-46	1.31696438	0.189	0.093	5.6748E-42
Pnrc1	3.74E-46	1.28263661	0.237	0.137	8.8708E-42
Rps27l	4.3401E-46	1.05015609	0.313	0.208	1.0294E-41
Gm2000	4.5919E-46	1.02922525	0.304	0.197	1.0892E-41
Gm14964	4.7373E-46	1.51970574	0.159	0.071	1.1236E-41
Kif6	7.7313E-46	1.52029001	0.146	0.061	1.8338E-41
Fam129a	1.0831E-45	1.61575941	0.14	0.057	2.5691E-41
Hs6st3	2.7354E-45	1.58646557	0.141	0.058	6.488E-41
Cas21	3.509E-45	1.56122927	0.14	0.057	8.3229E-41
Hells	6.1059E-45	2.12105349	0.122	0.046	1.4483E-40
Mrpl33	1.2227E-44	1.02905271	0.297	0.192	2.9001E-40
Cfap65	3.9252E-44	1.68543154	0.129	0.051	9.3101E-40
Leprotl1	4.5827E-44	1.54837926	0.163	0.076	1.087E-39
Fam163a	4.9527E-44	1.43817657	0.153	0.067	1.1747E-39
Arntl	5.2937E-44	1.95359686	0.126	0.05	1.2556E-39
Prrg1	6.427E-44	1.42956086	0.192	0.099	1.5244E-39
Eif5a	8.2954E-44	1.03034442	0.327	0.229	1.9676E-39
Abracl	4.2677E-43	1.30298496	0.214	0.119	1.0123E-38
Kars	5.9771E-43	1.61443175	0.14	0.06	1.4177E-38
Wdttc1	9.5481E-43	1.1379273	0.262	0.163	2.2647E-38
Bcam	1.1319E-41	1.51310611	0.125	0.049	2.6848E-37
Trim26	1.3495E-41	1.05137771	0.267	0.168	3.2009E-37
Mms22l	2.1592E-41	1.49081894	0.168	0.083	5.1213E-37
Nfkb1a	2.1912E-41	1.28930953	0.184	0.094	5.1972E-37
Fsd1l	3.2684E-41	1.53506784	0.125	0.05	7.7523E-37
Cldn1	3.6845E-41	1.399695	0.163	0.079	8.7392E-37
Car5b	2.4403E-40	1.17364873	0.246	0.152	5.7881E-36
Arpc3	2.6383E-40	1.10388611	0.272	0.177	6.2578E-36
Itpk1	2.8645E-40	1.02849648	0.304	0.208	6.7943E-36
Pgd	3.5933E-40	1.22203148	0.222	0.129	8.523E-36
Azin2	5.6265E-40	1.33237985	0.197	0.109	1.3346E-35
Sh2d4b	6.9455E-40	1.91364991	0.105	0.038	1.6474E-35
Atad2	6.9861E-40	2.27407234	0.114	0.045	1.657E-35
5730559C18R	9.4704E-40	1.37248726	0.175	0.091	2.2463E-35
St14	1.7002E-39	1.80040804	0.106	0.038	4.0328E-35
Ripk2	1.7483E-39	1.51314466	0.183	0.098	4.1469E-35
Ucp2	2.9182E-39	1.5464458	0.162	0.082	6.9216E-35
Setd7	4.9551E-39	1.62509316	0.121	0.05	1.1753E-34
Katna1	6.4163E-39	1.21708682	0.238	0.148	1.5219E-34
Mrpl54	1.0981E-38	1.34790377	0.194	0.108	2.6046E-34
Sh3bp2	1.2551E-38	1.55334205	0.144	0.067	2.9769E-34
Arpc1b	2.3557E-38	1.50060195	0.152	0.074	5.5875E-34
Elob	3.0333E-38	1.17049073	0.245	0.155	7.1946E-34
Stk32a	3.8866E-38	1.30521768	0.165	0.083	9.2185E-34
Phf6	5.5996E-38	1.08458205	0.222	0.131	1.3282E-33
Pkm	9.2581E-38	1.44259156	0.162	0.083	2.1959E-33
Ogfr	1.2371E-37	1.71555324	0.109	0.042	2.9344E-33
Akr1b10	1.5207E-37	1.05262671	0.255	0.162	3.6068E-33
AC166344.1	2.3458E-37	1.56156912	0.108	0.041	5.564E-33

Cyb561	3.086E-37	1.58211833	0.118	0.049	7.3196E-33
Wars	6.1156E-37	1.43871512	0.16	0.082	1.4506E-32
Rps6	6.5418E-37	1.0443894	0.284	0.193	1.5516E-32
4930599N23R	6.9696E-37	1.56842326	0.15	0.074	1.6531E-32
Sub1	1.2311E-36	1.1664014	0.238	0.15	2.9201E-32
Rpn1	1.4882E-36	1.00150193	0.291	0.201	3.5298E-32
Psmg4	1.8451E-36	1.5418422	0.124	0.054	4.3763E-32
Irf9	2.0463E-36	1.30319263	0.138	0.064	4.8537E-32
Pea15a	3.1039E-36	1.32843586	0.155	0.078	7.362E-32
Trim56	3.5135E-36	1.13232	0.206	0.119	8.3336E-32
Ctso	4.3435E-36	1.2076904	0.187	0.104	1.0302E-31
Psmb4	4.3698E-36	1.190983	0.22	0.135	1.0365E-31
Akr1c20	4.8727E-36	1.72345212	0.123	0.054	1.1557E-31
Sec61b	5.9476E-36	1.34912349	0.191	0.109	1.4107E-31
Map3k21	1.3031E-35	1.10895435	0.21	0.124	3.0909E-31
Arf5	5.5014E-35	1.08485062	0.255	0.167	1.3049E-30
Etf6	6.5908E-35	1.20420614	0.186	0.104	1.5633E-30
Gadd45g	1.0587E-34	1.3407769	0.137	0.064	2.5111E-30
Gm28068	2.3163E-34	1.32151668	0.161	0.084	5.4941E-30
Arhgap22	2.0982E-33	1.03592123	0.253	0.168	4.9766E-29
Inpp1	2.9743E-33	1.25040114	0.171	0.094	7.0547E-29
Syt1	3.0804E-33	1.2744052	0.155	0.081	7.3065E-29
Vamp5	4.0156E-33	1.08666901	0.191	0.11	9.5245E-29
Pcbp1	4.6184E-33	1.01697414	0.251	0.166	1.0954E-28
Hnrnpab	5.6393E-33	1.0308915	0.251	0.167	1.3376E-28
Ranbp1	7.6904E-33	1.30575238	0.147	0.075	1.8241E-28
Tubb2a	1.3082E-32	1.37941787	0.128	0.06	3.1028E-28
Ninj1	1.4812E-32	1.28743258	0.171	0.096	3.5133E-28
Ppp4r4	1.6226E-32	1.42251447	0.135	0.066	3.8486E-28
Pola1	1.6902E-32	1.17886095	0.294	0.209	4.009E-28
Dtx4	3.2978E-32	1.62655816	0.102	0.042	7.8221E-28
1810037117Ri	5.737E-32	1.13225981	0.216	0.136	1.3608E-27
Rpl12	6.9655E-32	1.26561086	0.152	0.08	1.6521E-27
Eef1b2	7.2151E-32	1.10400187	0.22	0.14	1.7114E-27
Bax	9.3558E-32	1.11670447	0.207	0.127	2.2191E-27
Mocos	1.1354E-31	1.40888585	0.142	0.073	2.693E-27
Irf2bpl	1.2044E-31	1.33961982	0.148	0.077	2.8567E-27
Trim47	2.0358E-31	1.14088765	0.165	0.09	4.8286E-27
Nek6	7.8394E-31	1.02879829	0.216	0.136	1.8594E-26
Gm32857	8.5197E-31	1.47485825	0.114	0.052	2.0208E-26
Cenpj	1.653E-30	1.33138387	0.138	0.07	3.9208E-26
Rmdn3	2.0053E-30	1.21336274	0.166	0.093	4.7565E-26
Rpl36al	3.2819E-30	1.00773437	0.244	0.165	7.7843E-26
Cyb5r3	6.2354E-30	1.1166615	0.2	0.124	1.479E-25
Triobp	1.2198E-29	1.46606544	0.126	0.062	2.8933E-25
Sh3bp4	4.0984E-29	1.36456783	0.133	0.068	9.721E-25
Rps15a	5.1317E-29	1.2038088	0.178	0.106	1.2172E-24
Trp63	5.192E-29	1.62361514	0.103	0.045	1.2315E-24
Rps18	5.6801E-29	1.49386287	0.13	0.066	1.3473E-24
Mtmr7	1.4869E-28	1.44566752	0.113	0.054	3.5269E-24
Nfatc2	1.5135E-28	1.34420016	0.119	0.058	3.5898E-24
Nhp2	2.3551E-28	1.67515908	0.101	0.045	5.5861E-24
Jpt1	2.9307E-28	1.31463907	0.128	0.065	6.9513E-24
Nup93	3.3324E-28	1.09940993	0.152	0.083	7.904E-24
Sept4	8.1603E-28	1.52139745	0.102	0.046	1.9356E-23
Sf3b5	9.2669E-28	1.34384864	0.153	0.087	2.198E-23
Gm8186	1.605E-27	1.11090783	0.174	0.104	3.807E-23
Fhl1-ps1	1.7265E-27	1.11832905	0.228	0.157	4.0952E-23
Pla2g5	2.7079E-27	1.28771183	0.111	0.053	6.4228E-23
Snu13	2.9965E-27	1.29719114	0.151	0.085	7.1075E-23
Banf1	4.1413E-27	1.5120446	0.112	0.055	9.8228E-23
Eid1	5.0225E-27	1.3079107	0.129	0.067	1.1913E-22
Ranbp17	6.5306E-27	1.17710828	0.166	0.098	1.549E-22
Rhoc	7.2799E-27	1.36359179	0.119	0.06	1.7267E-22
Gm29337	7.7717E-27	1.43424155	0.123	0.063	1.8434E-22
Cuedc1	7.8352E-27	1.3418093	0.118	0.059	1.8584E-22
Arhgdia	1.0601E-26	1.04501726	0.226	0.152	2.5145E-22
Ctla4	1.6331E-26	1.28778435	0.141	0.078	3.8736E-22
Ankrd29	1.7123E-26	1.00929173	0.167	0.098	4.0613E-22
Nova1	1.9606E-26	1.21712295	0.111	0.054	4.6503E-22
Zmat3	2.3527E-26	1.10821163	0.174	0.105	5.5804E-22
Cdc25	3.8004E-26	1.04228281	0.177	0.108	9.0142E-22
1700016D06R	4.1177E-26	1.03594874	0.214	0.143	9.7668E-22
Tbrg1	6.0702E-26	1.14508392	0.164	0.097	1.4398E-21
D8Erttd738e	8.5122E-26	1.04072599	0.223	0.153	2.019E-21
Slc31a2	1.6343E-25	1.32792385	0.116	0.059	3.8765E-21
Shisa5	2.5406E-25	1.18721066	0.173	0.107	6.026E-21
Pinx1	3.5561E-25	1.13596587	0.141	0.078	8.4347E-21
Bbs12	4.322E-25	1.07842125	0.169	0.104	1.0251E-20
Creb3	5.4271E-25	1.37118684	0.121	0.063	1.2873E-20
Gm10076	5.9775E-25	1.0752691	0.19	0.122	1.4178E-20
Kcnh1	6.1056E-25	1.1109775	0.134	0.073	1.4482E-20
Zfp239	9.8633E-25	1.38698868	0.105	0.051	2.3395E-20
Gm14820	1.7878E-24	1.10029534	0.184	0.119	4.2405E-20
Snrpd2	3.2005E-24	1.0523065	0.201	0.134	7.5912E-20
Srxn1	3.8435E-24	1.23643473	0.119	0.063	9.1164E-20
Pfn2	5.2672E-24	1.28939315	0.132	0.074	1.2493E-19
Topbp1	5.7093E-24	1.07581085	0.171	0.106	1.3542E-19
Sorcs1	8.5236E-24	1.16989473	0.323	0.261	2.0217E-19
Slc30a1	8.8554E-24	1.00310364	0.221	0.154	2.1004E-19
Capn1	1.3366E-23	1.30894292	0.108	0.054	3.1702E-19
Nubp1	1.498E-23	1.15316475	0.136	0.077	3.553E-19
Snn	5.0062E-23	1.16528555	0.14	0.081	1.1874E-18
Dnah2	5.5604E-23	1.24829046	0.114	0.06	1.3189E-18
Gca	5.9995E-23	1.30609695	0.106	0.053	1.423E-18
Npc2	6.1936E-23	1.02709939	0.204	0.139	1.4691E-18
Traf3ip2	1.9651E-22	1.12838228	0.142	0.083	4.661E-18
Aif1l	2.9991E-22	1.0398902	0.17	0.109	7.1135E-18
Junb	8.5642E-22	1.05781001	0.144	0.086	2.0313E-17

Zpld1	9.931E-22	1.26201114	0.111	0.059	2.3555E-17
Pappa	1.9337E-21	1.25029413	0.138	0.082	4.5865E-17
Kif24	4.1544E-21	1.18310665	0.155	0.098	9.8538E-17
Srp14	4.1696E-21	1.12100981	0.178	0.119	9.8898E-17
Nenf	7.719E-21	1.09662855	0.155	0.098	1.8309E-16
Itm2c	8.6654E-21	1.11498417	0.128	0.074	2.0553E-16
Bcat1	9.186E-21	1.03323046	0.14	0.084	2.1788E-16
Cytip	2.1193E-20	1.14543348	0.119	0.067	5.0267E-16
Mif4gd	3.8921E-20	1.0410359	0.151	0.095	9.2316E-16
Zc3h12b	4.8084E-20	1.27426926	0.107	0.059	1.1405E-15
Srl	8.3395E-20	1.24107591	0.103	0.055	1.9781E-15
Gm40271	9.9069E-20	1.0096965	0.196	0.138	2.3498E-15
Hsd11b1	1.1776E-19	1.25024827	0.103	0.056	2.7931E-15
Tipin	2.1477E-19	1.00842908	0.147	0.092	5.0941E-15
Gm11099	3.2399E-19	1.21738707	0.105	0.058	7.6847E-15
Platr25	3.5852E-19	1.12078258	0.123	0.072	8.5037E-15
Selenom	5.1247E-19	1.1491277	0.137	0.085	1.2155E-14
Ulka	6.1438E-19	1.07557314	0.145	0.092	1.4572E-14
Tmem160	7.2036E-19	1.23637625	0.129	0.079	1.7086E-14
Kcnk2	1.6803E-18	1.01009727	0.154	0.1	3.9856E-14
Vasp	1.749E-18	1.21804194	0.103	0.057	4.1484E-14
Plagl2	2.1175E-17	1.04428822	0.117	0.07	5.0224E-13
Anxa6	3.6998E-17	1.17197774	0.12	0.074	8.7755E-13
Rab32	7.4105E-17	1.15460745	0.101	0.057	1.7577E-12
Ifngr2	1.1764E-16	1.03034296	0.105	0.06	2.7902E-12
Abca13	1.242E-16	1.12590615	0.206	0.152	2.9459E-12
Atad5	1.2604E-16	1.06351836	0.119	0.073	2.9895E-12
Dnmt1	1.3509E-16	1.03198617	0.11	0.065	3.2042E-12
6330562C20R	2.3484E-16	1.02130665	0.111	0.066	5.5702E-12
Ezh2	2.6095E-16	1.06829935	0.164	0.113	6.1894E-12
Pprc1	8.3252E-16	1.01727743	0.114	0.07	1.9747E-11
Npdc1	8.35E-16	1.0687678	0.103	0.061	1.9805E-11
Rnf31	8.9236E-16	1.00672843	0.126	0.08	2.1166E-11
Mrpl35	1.2142E-15	1.15117855	0.114	0.07	2.8799E-11
Optn	2.3537E-14	1.02463913	0.108	0.067	5.5828E-10
Hmgb3	2.5923E-14	1.03949301	0.131	0.087	6.1486E-10
Plpp2	6.6595E-14	1.12169934	0.104	0.065	1.5796E-09
C130026I21Ri	7.5369E-14	1.09617048	0.113	0.073	1.7877E-09
Cd151	2.6657E-13	1.11427265	0.11	0.071	6.3227E-09
Lsm3	5.0331E-13	1.10940356	0.103	0.066	1.1938E-08
Rex1bd	1.2504E-12	1.00474836	0.132	0.092	2.9658E-08
Dut	1.27E-12	1.08068409	0.102	0.065	3.0122E-08
Mrpl17	1.5549E-12	1.03198307	0.123	0.084	3.688E-08
Arrb1	1.2329E-11	1.04217229	0.115	0.078	2.9242E-07
Guk1	2.9234E-11	1.05448305	0.112	0.077	6.934E-07
Elof1	5.3554E-11	1.04344125	0.109	0.074	1.2702E-06
Tenn4	1.5631E-09	1.11438414	0.128	0.095	3.7075E-05
Cenpp	1.6359E-08	1.09617417	0.127	0.095	0.00038802
Sdk1	4.9247E-08	1.33310923	0.14	0.111	0.00116809

Table S2: Results from differential gene expression TCMR vs. Control

Thin limbs

*This Fold Change was calculated between [C57BL/6 to BALB/c] and [C57BL/6 to C57BL/6]

Gene upr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj	Gene downr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj
H2-K1	1.8472E-11	4.13966345		1	0.625	Gm26870	5.7385E-34	-6.53278831	0.006	0.562	1.3611E-29
Cd74	6.7617E-11	6.87295154	0.969	0.062	1.6038E-06	Acaa1b	2.1653E-20	-5.08260826	0.013	0.438	5.136E-16
B2m	1.0564E-10	3.92395815	0.984	0.375	2.5057E-06	Slc13a3	8.5397E-19	-4.90259985	0.016	0.438	2.0255E-14
H2-D1	1.7807E-10	3.6767086	0.987	0.5	4.2237E-06	Gm10801	9.2681E-15	-7.26624487	0	0.188	2.1983E-10
Ilgp1	2.7971E-10	6.06702978	0.953	0.125	6.6344E-06	Aspdh	9.2681E-15	-6.22108356	0	0.188	2.1983E-10
Stat1	1.0959E-09	4.72777963	0.925	0.188	2.5994E-05	Gm6878	9.2681E-15	-7.12418129	0	0.188	2.1983E-10
Ly6e	1.8785E-09	5.02293335	0.915	0.062	4.4557E-05	Nat8f1	4.4353E-14	-3.41658767	0.05	0.562	1.052E-09
Gbp2	3.4918E-09	7.08840228	0.881	0.062	8.2822E-05	Slc34a1	7.1855E-14	-3.88559253	0.15	0.875	1.7043E-09
Ly6a	4.4339E-09	4.3049777	0.915	0.375	0.00010517	Dnah11	8.9176E-14	-4.20715745	0.019	0.375	2.1152E-09
Irgm1	3.3063E-08	3.95673583	0.859	0.188	0.00078421	Slc22a8	4.3662E-13	-5.12973579	0.013	0.312	1.0356E-08
Chd9	2.4065E-07	1.83266833	1	1	0.0057079	Cyp4a10	6.1789E-13	-4.25512398	0.013	0.312	1.4656E-08
H2-Ab1	4.2235E-07	5.87642939	0.74	0	0.01001777	Slc5a11	9.0094E-13	-4.84752261	0.006	0.25	2.1369E-08
Psmb8	5.4998E-07	5.2184271	0.749	0.062	0.01304497	Ddc	9.7965E-13	-4.85474725	0.006	0.25	2.3236E-08
H2-Aa	7.7083E-07	5.87194624	0.721	0	0.01828341	Rdh16f2	4.0756E-11	-6.41773313	0.003	0.188	9.6669E-07
H2-Eb1	1.0659E-06	4.01108386	0.762	0.125	0.02528159	Dmgdh	4.0756E-11	-5.33680206	0.003	0.188	9.6669E-07
Tmsb4x	1.2764E-06	2.34639119	0.94	0.5	0.03027611	Cckar	4.4807E-11	-4.58932549	0.003	0.188	1.0628E-06
Zfp981	1.5908E-06	4.08573722	0.774	0.188	0.03773327	Ttr	4.4807E-11	-4.50928926	0.003	0.188	1.0628E-06
Gbp7	1.8386E-06	5.97385229	0.693	0	0.04360945	Epor	5.7516E-11	-4.64757437	0.009	0.25	1.3642E-06
						Nat8f3	6.6342E-11	-4.53075919	0.009	0.25	1.5736E-06
						Col27a1	8.8148E-11	-3.66423636	0.009	0.25	2.0908E-06
						Svep1	2.7156E-10	-7.3712815	0	0.125	6.4412E-06
						Gm36011	2.7156E-10	-5.87800503	0	0.125	6.4412E-06
						Gm39033	2.7156E-10	-7.721149	0	0.125	6.4412E-06
						Cyp2e1	2.7156E-10	-5.87800503	0	0.125	6.4412E-06
						Glt8d2	2.7156E-10	-6.16235591	0	0.125	6.4412E-06
						A930009A15Ri	2.7156E-10	-6.30723119	0	0.125	6.4412E-06
						Fitm1	2.7156E-10	-6.37966987	0	0.125	6.4412E-06
						Nr2e3	2.7156E-10	-7.4887415	0	0.125	6.4412E-06
						Apom	2.7156E-10	-6.42775161	0	0.125	6.4412E-06
						Trpt1	2.7156E-10	-5.86931993	0	0.125	6.4412E-06
						Slc22a19	2.7156E-10	-6.42775161	0	0.125	6.4412E-06
						Slc22a1	3.0568E-10	-3.84696775	0.031	0.375	7.2504E-06
						Bhmt2	8.1767E-10	-4.23794006	0.022	0.312	1.9394E-05
						Esam	9.0062E-10	-2.77812893	0.044	0.438	2.1362E-05
						Gas1	9.6726E-10	-3.28174943	0.063	0.5	2.2942E-05
						4930579G18Ri	1.7464E-09	-3.20610078	0.034	0.375	4.1424E-05
						Pck1	4.5881E-09	-3.53608961	0.069	0.5	0.00010883
						Pla2g5	6.3911E-09	-4.51406067	0.006	0.188	0.00015159
						Smkr-ps	7.4258E-09	-3.86684128	0.006	0.188	0.00017613
						Gm16618	7.4258E-09	-3.82361345	0.006	0.188	0.00017613
						Slc22a7	7.4258E-09	-3.76681038	0.006	0.188	0.00017613
						Pank1	1.2088E-08	-2.67901119	0.119	0.625	0.00028672
						Ndr4	2.1637E-08	-3.49067758	0.103	0.562	0.0005132
						Acsm2	2.2179E-08	-3.48906305	0.078	0.5	0.00052605
						Flvcr2	2.4499E-08	-3.44615901	0.016	0.25	0.00058109
						Lamtor2	2.8058E-08	-1.82190858	0.21	0.812	0.00066551
						Zmynd12	2.8064E-08	-2.78997704	0.041	0.375	0.00066566
						Pxmp2	4.3945E-08	-3.27158473	0.028	0.312	0.00104233
						Wfdc15b	5.4292E-08	-2.9360314	0.06	0.438	0.00128774
						Pipp4	6.0015E-08	-2.99713101	0.082	0.5	0.00142349
						Gpam	7.1196E-08	-2.19174592	0.041	0.375	0.0016887
						Hagh	1.231E-07	-2.51519485	0.163	0.688	0.00291983
						Lrp2	1.3305E-07	-3.12195432	0.138	0.625	0.00315588
						Cd59b	1.3951E-07	-2.37825993	0.11	0.562	0.00330908
						Fbp1	1.4376E-07	-3.03563519	0.047	0.375	0.00340975
						Hsd3b3	1.4687E-07	-5.33248782	0.009	0.188	0.00348353
						Gldc	1.4687E-07	-4.56485555	0.009	0.188	0.00348353
						Kap	1.4725E-07	-2.23134844	0.881	1	0.00349261
						mt-Cytb	1.51E-07	-1.87153127	0.408	0.938	0.00358148
						mt-Nd4	1.8634E-07	-1.90013847	0.683	0.938	0.00441979
						Gprc5b	1.8845E-07	-4.49774069	0.009	0.188	0.00446979
						Tm7sf2	1.8845E-07	-3.86348356	0.009	0.188	0.00446979
						Akr7a5	2.0959E-07	-2.47272927	0.113	0.562	0.00497128
						Gm14320	2.2689E-07	-3.02840583	0.009	0.188	0.00538149
						Scn8a	2.2689E-07	-3.63955118	0.009	0.188	0.00538149
						Lrrc19	2.7509E-07	-2.3417183	0.085	0.5	0.0065249
						Sptssb	2.8616E-07	-3.87151087	0.053	0.375	0.00678738
						mt-Nd6	3.5733E-07	-2.10983846	0.047	0.375	0.00847555
						Acsm1	3.6552E-07	-3.20313385	0.034	0.312	0.00866981
						Pax2	4.2135E-07	-1.53313741	0.831	1	0.00999404
						Vmn1r20	4.4236E-07	-5.57631318	0.003	0.125	0.01049225
						C330002G04Ri	4.4236E-07	-6.49799499	0.003	0.125	0.01049225
						C8a	4.8147E-07	-5.02027503	0.003	0.125	0.01142004
						Ptger2	4.8147E-07	-5.34831284	0.003	0.125	0.01142004
						9130604C24Ri	5.2391E-07	-3.73057784	0.003	0.125	0.01242671
						Uroc1	5.2391E-07	-4.65892437	0.003	0.125	0.01242671
						Pde3a	5.2391E-07	-4.47420562	0.003	0.125	0.01242671
						Btdb11	5.2391E-07	-4.35946811	0.003	0.125	0.01242671
						Nsg2	5.2391E-07	-2.76734182	0.003	0.125	0.01242671
						Npas3	5.2391E-07	-4.35950023	0.003	0.125	0.01242671
						Cndp1	5.2391E-07	-4.54838952	0.003	0.125	0.01242671
						2700089I24Ri	5.2391E-07	-4.75576227	0.003	0.125	0.01242671
						Miox	5.5268E-07	-2.29539814	0.116	0.562	0.01310898
						Endog	6.0041E-07	-3.43657105	0.022	0.25	0.01424114
						0610005C13Ri	6.1683E-07	-2.82410679	0.034	0.312	0.01463066
						mt-Nd2	6.5984E-07	-1.74307446	0.643	1	0.01565085
						Chpf	6.8567E-07	-3.23025465	0.022	0.25	0.01626334
						Vldlr	1.0288E-06	-1.9701449	0.266	0.812	0.02440182
						Ass1	1.0399E-06	-2.4844682	0.129	0.562	0.02466519
						Selenos	1.5546E-06	-2.18024236	0.122	0.562	0.03687345
						Ppp1r1b	1.9194E-06	-3.81688441	0.013	0.188	0.04552528
						Scd1	2.0877E-06	-3.30588053	0.025	0.25	0.04951933

Table S2: Results from differential gene expression TCMR vs. Control

Thin limbs											*This Fold Change was calculated between [BALB/c to C57BL/6] and [BALB/c to BALB/c]										
Gene upr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj	Gene downr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj										
Cd74	4.8399E-72	5.78100123	0.973	0.099	1.148E-67	Gm26870	1.8418E-45	-4.8633075	0.031	0.656	4.3686E-41										
B2m	6.4515E-72	4.63963567	0.988	0.276	1.5302E-67	Malat1	7.8179E-33	-1.20289242	1	1	1.8543E-28										
H2-K1	2.8899E-69	4.30531569	0.984	0.365	6.8546E-65	Fxyd2	5.7667E-19	-1.02186707	0.946	0.99	1.3678E-14										
H2-D1	1.1004E-68	3.75138879	0.992	0.526	2.61E-64	Nme7	6.0065E-18	-1.24230711	0.584	0.87	1.4247E-13										
Ilgp1	4.2438E-65	6.76135599	0.899	0.026	1.0066E-60	Gm26804	5.1976E-15	-1.1800187	0.751	0.88	1.2328E-10										
Ly6a	6.728E-56	4.73184435	0.86	0.104	1.5958E-51	Dnm3	5.7729E-14	-1.28568858	0.56	0.833	1.3693E-09										
Stat1	6.505E-51	4.60285648	0.829	0.141	1.5429E-46	Hnmp1	2.0366E-13	-1.22145197	0.77	0.906	4.8305E-09										
Irgm1	1.5981E-48	4.65820074	0.786	0.089	3.7905E-44	Pcx	2.5577E-13	-1.65686777	0.241	0.583	6.0665E-09										
Gbp2b	2.3935E-47	6.08286	0.755	0.068	5.6772E-43	Dtnbos	3.6619E-12	-1.67956832	0.152	0.458	8.6857E-08										
H2-Ab1	1.1589E-45	6.86657577	0.704	0.016	2.7487E-41	Rufy2	1.2717E-11	-1.31088296	0.218	0.536	3.0165E-07										
Psmb8	5.9797E-45	5.75108007	0.712	0.031	1.4183E-40	Slc34a1	2.2844E-11	-1.05205902	0.191	0.526	5.4184E-07										
H2-Aa	5.9808E-44	6.55795154	0.685	0.01	1.4186E-39	Fam196a	2.3677E-11	-1.51195562	0.218	0.505	5.6159E-07										
H2-Eb1	2.8119E-41	6.45441696	0.658	0.016	6.6694E-37	Ndrp4	5.5948E-11	-1.8679876	0.23	0.484	1.327E-06										
Spp1	1.0778E-39	1.77796428	1	0.672	2.5565E-35	Zfp511	6.0584E-11	-2.129083	0.058	0.286	1.437E-06										
Ly6e	3.4639E-37	5.04180202	0.646	0.057	8.2161E-33	Miox	7.1691E-11	-1.50836213	0.14	0.432	1.7004E-06										
Irgm2	4.6808E-37	4.84562555	0.654	0.062	1.1102E-32	Dnah11	8.3651E-11	-2.2569174	0.109	0.354	1.9841E-06										
Tmsb4x	1.738E-36	2.18620967	0.93	0.547	4.1224E-32	Epsb1	1.4369E-10	-1.36019319	0.257	0.547	3.4081E-06										
Tnfsf10	4.7582E-36	3.24432333	0.755	0.208	1.1286E-31	Gm14546	1.648E-10	-2.27142449	0.109	0.349	3.9089E-06										
Ubd	3.368E-35	8.94920766	0.568	0	7.9885E-31	Gm15347	1.833E-10	-2.49423585	0.07	0.292	4.3476E-06										
Gbp7	4.0861E-33	4.9777895	0.595	0.047	9.6919E-29	Cd59b	2.7278E-10	-1.82070556	0.086	0.323	6.4701E-06										
Tabp	2.1E-31	2.25849664	0.798	0.38	4.981E-27	Gm11536	3.8561E-10	-1.66391991	0.105	0.354	9.1462E-06										
Gbp2	2.6083E-29	5.61444398	0.525	0.026	6.1867E-25	Gm19669	4.4196E-10	-2.91733271	0.031	0.219	1.0483E-05										
Olfr56	8.7754E-29	5.40892146	0.521	0.026	2.0814E-24	Gm26776	1.5548E-09	-3.55054745	0.012	0.167	3.6879E-05										
Parp14	2.0041E-28	3.99194579	0.599	0.109	4.7536E-24	Xylt1	2.1332E-09	-1.56547018	0.237	0.484	5.0598E-05										
Tap2	1.0143E-27	4.98817625	0.521	0.047	2.4059E-23	Gm15640	2.6716E-09	-2.28548993	0.035	0.219	6.3368E-05										
H2-T23	1.0428E-27	3.7358378	0.572	0.078	2.4735E-23	Gm19705	2.6909E-09	-2.54074577	0.031	0.208	6.3825E-05										
Tap2	1.5005E-25	4.96245935	0.479	0.026	3.5589E-21	Gm26669	2.721E-09	-1.85385172	0.089	0.312	6.454E-05										
Psmb9	5.2641E-25	5.43806352	0.471	0.031	1.2486E-20	Lrrc4	4.3243E-09	-1.70822315	0.23	0.474	0.00010257										
Irf1	2.5388E-24	3.78175859	0.529	0.083	6.0217E-20	Gpc5	4.5117E-09	-2.21951576	0.082	0.297	0.00010701										
Nlrc5	1.988E-23	3.70621367	0.494	0.057	4.7154E-19	Xbp1	4.6001E-09	-1.00095258	0.436	0.667	0.00010911										
Ifitm3	2.5688E-23	4.27408612	0.475	0.047	6.093E-19	A430090L17Ri	4.6345E-09	-2.0048668	0.117	0.339	0.00010992										
H2-Q4	5.0401E-22	4.02486507	0.459	0.047	1.1955E-17	Gm31763	4.6367E-09	-1.07578505	0.233	0.5	0.00010998										
Tmem176b	1.1324E-21	1.44671131	0.883	0.641	2.686E-17	Lysmd4	6.0266E-09	-1.60143711	0.163	0.396	0.00014295										
Fth1	1.4932E-21	1.16213241	0.961	0.839	3.5417E-17	Cpne2	6.4196E-09	-1.44918207	0.14	0.391	0.00015227										
AW112010	1.5826E-21	5.72735968	0.397	0.01	3.7538E-17	Abcc5	7.8948E-09	-1.12941191	0.28	0.547	0.00018726										
Gm4951	1.9198E-21	8.40840726	0.377	0	4.5536E-17	Hspa1b	8.2669E-09	-1.15716128	0.584	0.755	0.00019608										
Gbp3	4.5876E-21	4.89151016	0.401	0.016	1.0881E-16	Peli2	1.0246E-08	-1.30301374	0.319	0.578	0.00024303										
Bst2	6.8471E-21	4.59183175	0.412	0.026	1.6241E-16	Cnnm1	1.6534E-08	-1.264743	0.268	0.516	0.00039216										
Cd52	2.7702E-20	5.57818876	0.377	0.01	6.5705E-16	Gm38304	1.8579E-08	-2.32386113	0.051	0.229	0.00044068										
Tmem176a	8.8301E-20	1.38051593	0.883	0.646	2.0944E-15	Pdcd4	2.2298E-08	-1.04768495	0.28	0.557	0.00052889										
Actb	1.2239E-19	1.2335784	0.938	0.745	2.903E-15	Dnase1	2.3015E-08	-3.62379984	0.016	0.156	0.0005459										
Rnf213	7.0856E-19	2.49081293	0.611	0.24	1.6806E-14	Zfp973	2.5144E-08	-1.15793879	0.171	0.427	0.00059638										
Cxcl10	1.7448E-18	6.05067872	0.342	0.005	4.1384E-14	Gm15738	2.6276E-08	-1.30657444	0.171	0.411	0.00062325										
Stat2	1.9171E-18	3.1870939	0.479	0.115	4.5471E-14	Gm15261	2.6372E-08	-1.97366944	0.132	0.339	0.00062551										
mt-Co1	4.155E-18	1.08179476	0.911	0.688	9.8553E-14	Ampd3	2.8364E-08	-1.04990655	0.362	0.62	0.00067277										
Gm16685	3.1154E-17	4.58923171	0.381	0.047	7.3895E-13	Galm	3.0503E-08	-1.59213497	0.296	0.526	0.00072349										
Psmb10	1.6684E-16	3.59432944	0.385	0.057	3.9572E-12	Ypel3	3.5342E-08	-1.11408778	0.226	0.479	0.00083827										
Ifi44	3.6995E-16	4.72199963	0.331	0.021	8.7749E-12	Sema4b	3.9607E-08	-1.0414757	0.327	0.589	0.00093944										
Napsa	4.1687E-16	1.27752246	0.821	0.542	9.8877E-12	Trmt10a	4.1294E-08	-2.28489188	0.035	0.198	0.00097945										
H2-T22	4.3981E-16	3.28679494	0.401	0.068	1.0432E-11	Sptsb	4.4634E-08	-2.01314524	0.163	0.365	0.00105867										
Oas2	7.3116E-16	6.7559297	0.296	0.005	1.7342E-11	Csad	5.235E-08	-1.07048125	0.226	0.49	0.00124168										
Parp9	7.7852E-16	2.73323788	0.479	0.141	1.8466E-11	Gm28379	5.3422E-08	-2.65949162	0.019	0.161	0.00126712										
Ly2	8.4042E-16	4.85712219	0.307	0.01	1.9934E-11	Itgb3bp	6.1607E-08	-1.13500458	0.179	0.422	0.00146125										
Cd274	1.818E-15	4.71127102	0.327	0.026	4.312E-11	Plk5	6.6469E-08	-4.92015781	0.004	0.12	0.00157659										
Gbp8	3.0401E-15	7.46106324	0.276	0	7.2109E-11	Cln3	6.8771E-08	-1.76132677	0.089	0.286	0.00163119										
Gm12185	7.9666E-15	5.54006925	0.288	0.01	1.8896E-10	Gm12146	7.2137E-08	-3.09498055	0.023	0.167	0.00171101										
F830016B08R	8.5514E-15	8.1050842	0.268	0	2.0283E-10	Tox3	7.7493E-08	-3.19204988	0.012	0.141	0.00183805										
H2-Q7	1.0863E-14	4.91099209	0.288	0.01	2.5767E-10	Rasal1	8.7013E-08	-1.49125014	0.148	0.365	0.00206387										
Plscr2	1.6346E-14	1.37963699	0.724	0.458	3.877E-10	Tsga10	9.2276E-08	-1.96593729	0.113	0.302	0.0021887										
Lcn2	7.3286E-14	3.57280602	0.327	0.042	1.7383E-09	Gucy2g	1.099E-07	-2.63833712	0.019	0.156	0.00260666										
Tgtp2	2.9841E-13	7.15074622	0.241	0	7.078E-09	Phykp1	1.1369E-07	-1.54846951	0.113	0.318	0.0026965										
Ifit3	5.1627E-13	2.55740478	0.451	0.161	1.2245E-08	Ccdc3	1.2452E-07	-2.63077196	0.043	0.198	0.00295351										
Herc6	1.0153E-12	2.57217646	0.42	0.135	2.4083E-08	Gm6878	1.2623E-07	-3.81922892	0.012	0.135	0.00299408										
Vcam1	1.1335E-12	4.88043474	0.253	0.01	2.6886E-08	Sgk1	1.4527E-07	-1.47189718	0.327	0.521	0.00344568										
Tmem140	1.3581E-12	3.55639875	0.311	0.047	3.2213E-08	Gm31224	1.5814E-07	-1.39267727	0.171	0.391	0.00375095										
Tdcdc2a	1.8825E-12	1.55449392	0.646	0.385	4.465E-08	Ank2	1.8602E-07	-1.64723843	0.132	0.333	0.00441218										
Msn	2.6701E-12	1.25052574	0.716	0.516	6.3332E-08	Slco4a1	2.5736E-07	-1.03159458	0.475	0.693	0.00610422										
Susd1	3.3265E-12	2.14030319	0.463	0.172	7.8902E-08	Cesd1	3.0004E-07	-2.54320299	0.016	0.141	0.00711674										
Rplp1	6.2613E-12	1.03493242	0.829	0.62	1.4851E-07	Ppp1r1a	3.0688E-07	-1.93026703	0.152	0.349	0.00727891										
Irf7	6.937E-12	4.56766299	0.23	0.005	1.6454E-07	Rfina	3.3249E-07	-3.67474261	0.008	0.12	0.00788634										
mt-Co3	7.058E-12	1.10583102	0.829	0.672	1.6741E-07	Gm20395	3.4194E-07	-1.07193427	0.198	0.432	0.00811043										
Serping1	1.3361E-11	3.94136984	0.245	0.016	3.1692E-07	4930557K07Ri	4.0499E-07	-1.15953771	0.117	0.323	0.00960594										
Pigr	1.511E-11	3.40806929	0.3	0.052	3.584E-07	AC114408.3	4.1355E-07	-1.9348563	0.074	0.245	0.00980905										
Dbl	1.8632E-11	1.25393132	0.735	0.505	4.4193E-07	Gsdme	5.3467E-07	-1.17035762	0.163	0.385	0.01268189										
Gm12216	3.7996E-11	4.59879011	0.249	0.026	9.0122E-07	Abhd14b	5.3616E-07	-1.34926277	0.156	0.365	0.01271719										
Gm4841	4.0086E-11	7.26948513	0.202	0	9.5081E-07	Pid1	6.089E-07	-2.82031538	0.062	0.219	0.01444251										
C1qb	6.4731E-11	6.67836992	0.198	0	1.5354E-06	Gm47167	6.1197E-07	-1.30023729	0.132	0.339	0.01451533										
Itgb6	1.7202E-10	1.2868183	0.615	0.365	4.0801E-06	Wnk4	6.5547E-07	-1.23943375	0.109	0.302	0.01554706										
Cp	1.8177E-10	1.54511122	0.712	0.469	4.3115E-06	Gm38102	6.7004E-07	-2.02087552	0.051	0.203	0.01589268										
Adgrg3	2.4057E-10	1.80730403	0.463	0.193	5.706E-06	Tmem120b	7.8945E-07														

Nfkbiz	3.0088E-09	2.1814393	0.428	0.214	7.1365E-05
Serpina10	4.8313E-09	2.67072368	0.249	0.047	0.00011459
Ciita	5.9736E-09	2.96953562	0.233	0.036	0.00014169
Sh2d4b	8.3885E-09	3.59658726	0.218	0.031	0.00019897
C3	8.4146E-09	3.63198079	0.21	0.026	0.00019958
Isg15	9.1226E-09	3.56815049	0.202	0.021	0.00021638
Patl2	1.1735E-08	3.47889761	0.222	0.036	0.00027835
Psme1	1.2172E-08	1.94790026	0.393	0.177	0.00028871
Mt1	1.282E-08	2.07286629	0.428	0.203	0.00030407
Ifi27	1.6891E-08	1.27740372	0.607	0.432	0.00040065
Adams1	1.9189E-08	2.39162353	0.35	0.135	0.00045516
Sorbs2	2.1092E-08	2.01833766	0.354	0.135	0.00050027
C1qa	2.6134E-08	5.40335988	0.16	0.005	0.00061987
Csf1	3.8146E-08	2.61769794	0.265	0.068	0.00090479
Erap1	3.8675E-08	1.98333742	0.374	0.167	0.00091732
Tmsb10	4.7743E-08	1.37591037	0.486	0.276	0.00113241
Rtp4	5.3421E-08	3.84069069	0.175	0.016	0.00126708
Nmi	5.6151E-08	2.15791405	0.272	0.073	0.00133186
Cadps2	6.186E-08	1.69117133	0.416	0.193	0.00146725
Stat3	6.2447E-08	1.18428594	0.588	0.422	0.00148118
AU020206	7.1879E-08	4.7026621	0.152	0.005	0.0017049
Mt2	8.9261E-08	4.18244572	0.179	0.021	0.00211719
Icam1	8.9927E-08	4.03563459	0.179	0.021	0.00213299
Parp10	9.3093E-08	2.33121325	0.276	0.083	0.00220808
Clec2d	9.4846E-08	1.64694344	0.44	0.224	0.00224965
Xaf1	1.0988E-07	3.75783992	0.187	0.026	0.00260634
Tsc22d1	1.1161E-07	1.13296031	0.588	0.411	0.00264719
Il18bp	1.1896E-07	4.39496593	0.167	0.016	0.00282172
Hbb-bs	1.3072E-07	2.02036294	0.16	0.01	0.00310064
H2-Q6	1.6229E-07	5.12359755	0.144	0.005	0.00384929
H2-DMb1	1.6927E-07	6.0418309	0.132	0	0.00401484
Epsti1	2.0387E-07	4.01713697	0.163	0.016	0.00483552
Gm44148	2.1133E-07	2.4534344	0.292	0.104	0.00501246
Pfn1	2.5986E-07	1.05694798	0.626	0.469	0.0061636
Serpinb9	3.0915E-07	2.65942274	0.245	0.068	0.00733278
Samhd1	3.3623E-07	2.3245786	0.3	0.109	0.00797515
Rnf19b	3.5459E-07	1.45815254	0.49	0.302	0.00841058
Ppp4r4	4.028E-07	1.71484226	0.381	0.177	0.00955408
Gbp5	4.1382E-07	6.46947162	0.125	0	0.00981528
Calr	4.5263E-07	1.04064721	0.642	0.5	0.01073586
Ctsb	5.132E-07	1.23675075	0.482	0.281	0.01217268
Clu	5.1617E-07	1.74065182	0.405	0.224	0.01224306
Rpl29	5.463E-07	3.74302199	0.156	0.016	0.01295774
Tgm2	5.8202E-07	2.28423145	0.288	0.109	0.01380495
Cd14	7.3549E-07	2.43557549	0.195	0.036	0.01744513
Idnk	9.3905E-07	1.68496391	0.296	0.109	0.02227339
Trim12c	9.5835E-07	1.5864814	0.389	0.198	0.02273112
Zbp1	9.7354E-07	5.50129039	0.128	0.005	0.02309135
Socs1	9.9725E-07	3.09859012	0.171	0.026	0.02365385
Flnb	1.1004E-06	1.00968921	0.638	0.51	0.02610093
Tapbpl	1.1163E-06	2.99742339	0.152	0.016	0.02647801
Apoe	1.2791E-06	1.3998628	0.381	0.188	0.03033859
H2-DMa	1.4174E-06	3.43236742	0.148	0.016	0.03361942
Ifit1	1.434E-06	3.7127602	0.156	0.021	0.03401292
Fem1c	1.5531E-06	1.17655368	0.444	0.245	0.03683721
H2-DMb2	1.5644E-06	5.85033388	0.113	0	0.03710566
Slc14a2	1.6356E-06	2.95772088	0.257	0.089	0.0387948
Hist1h2bc	1.7816E-06	1.3144566	0.494	0.328	0.042258

Table S2: Results from differential gene expression TCMR vs. Control

Thick ascending limbs

*This Fold Change was calculated between [C57BL/6 to BALB/c] and [C57BL/6 to C57BL/6]

Gene upr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj	Gene downr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj	
B2m	0	4.66509229	0.977	0.234	0	Kap	3.085E-291	-2.54559028	0.844	1	7.317E-287	Blck6_TAL
H2-K1	0	3.9147979	0.997	0.456	0	Egf	4.566E-288	-4.29628983	0.518	0.977	1.083E-283	Blck6_TAL
Chd9	0	3.45420952	0.999	0.876	0	mt-Nd2	3.994E-287	-2.56265078	0.61	0.994	9.473E-283	Blck6_TAL
Spp1	0	3.04539691	1	0.959	0	mt-Nd4	1.016E-255	-2.26937105	0.708	0.992	2.41E-251	Blck6_TAL
H2-D1	5.578E-298	4.28545487	0.96	0.219	1.323E-293	Slc34a1	4.956E-254	-3.282787	0.133	0.755	1.175E-249	Blck6_TAL
Ilgp1	5.533E-280	7.17846709	0.904	0.035	1.312E-275	Lpl	1.484E-247	-2.89434349	0.211	0.839	3.519E-243	Blck6_TAL
Cd74	4.254E-279	5.985655	0.911	0.064	1.009E-274	mt-Atp6	1.106E-242	-2.08574374	0.794	0.998	2.622E-238	Blck6_TAL
Zfp981	5.729E-268	6.01088952	0.898	0.121	1.359E-263	Gm26870	4.28E-241	-3.51169807	0.029	0.504	1.015E-236	Blck6_TAL
Ly6e	2.395E-250	4.31641191	0.89	0.145	5.681E-246	mt-Cytb	2.547E-231	-2.44976667	0.491	0.953	6.042E-227	Blck6_TAL
Stat1	1.121E-232	4.41651495	0.862	0.115	2.658E-228	Slc16a7	1.715E-224	-2.04028075	0.723	0.979	4.069E-220	Blck6_TAL
Gbp2	4.408E-229	6.49973776	0.809	0.017	1.046E-224	Wfdc15b	6.382E-217	-2.7758463	0.27	0.842	1.514E-212	Blck6_TAL
Tmsb4x	2.842E-217	4.33490089	0.873	0.233	6.74E-213	Gm47708	4.267E-209	-4.05183601	0.031	0.462	1.012E-204	Blck6_TAL
Irgm1	3.069E-205	4.43056685	0.799	0.103	7.279E-201	Dst	8.4E-205	-1.33547333	0.936	0.995	1.992E-200	Blck6_TAL
Lcn2	4.419E-204	5.98395529	0.766	0.037	1.048E-199	mt-Co2	8.227E-202	-1.94501748	0.733	0.992	1.951E-197	Blck6_TAL
H2-Q7	2.916E-186	8.64897371	0.705	0.003	6.917E-182	mt-Nd3	2.692E-201	-3.38583216	0.094	0.597	6.385E-197	Blck6_TAL
Gm20663	1.269E-168	4.38570634	0.732	0.109	3.011E-164	mt-Co3	1.097E-192	-1.73299085	0.745	0.985	2.602E-188	Blck6_TAL
Irgm2	3.837E-161	4.70667709	0.688	0.058	9.1E-157	Slc12a1	2.178E-188	-1.1204845	0.977	1	5.165E-184	Blck6_TAL
Psmb8	3.441E-160	6.53085739	0.653	0.018	8.161E-156	Gm42418	2.249E-186	-1.05061827	0.999	1	5.335E-182	Blck6_TAL
Gbp7	1.823E-153	4.37170688	0.667	0.046	4.325E-149	P3h2	1.737E-185	-1.46101193	0.858	0.995	4.121E-181	Blck6_TAL
H2-Aa	6.658E-147	5.65706862	0.63	0.028	1.579E-142	Mlox	8.84E-184	-3.11495838	0.076	0.55	2.097E-179	Blck6_TAL
H2-Ab1	1.909E-144	4.89691051	0.639	0.046	4.529E-140	Lrrc6	6.136E-183	-2.48763622	0.207	0.746	1.455E-178	Blck6_TAL
Gm42031	9.338E-144	5.54096108	0.635	0.058	2.215E-139	Plekha6	1.555E-182	-1.89068195	0.584	0.951	3.688E-178	Blck6_TAL
Clec2d	5.288E-143	2.12547051	0.85	0.498	1.254E-138	Ppp1r1a	2.305E-182	-1.80923708	0.5	0.954	5.468E-178	Blck6_TAL
Atp11a	1.713E-140	2.65592038	0.796	0.391	4.062E-136	Atpl1a1	1.816E-178	-1.160652	0.98	0.998	4.307E-174	Blck6_TAL
Ubd	5.976E-140	10.6771886	0.586	0	1.418E-135	mt-Nd1	1.571E-157	-1.87062837	0.46	0.902	3.75E-153	Blck6_TAL
Ly6a	3.008E-133	1.42978337	0.958	0.825	7.134E-129	Dusp15	9.524E-152	-3.21000943	0.061	0.403	2.259E-147	Blck6_TAL
Nlrc5	1.358E-132	4.5039059	0.609	0.043	3.22E-128	Sord	5.529E-151	-2.63432431	0.133	0.597	1.311E-146	Blck6_TAL
Tnfrsf10	2.579E-132	2.07735951	0.839	0.478	6.118E-128	Lrp2	1.998E-148	-2.87636217	0.089	0.515	4.739E-144	Blck6_TAL
Clu	1.825E-130	3.39111847	0.666	0.127	4.329E-126	Oxct1	1.746E-145	-1.28820177	0.765	0.98	4.141E-141	Blck6_TAL
Gm4951	3.298E-125	4.9259679	0.559	0.014	7.822E-121	Gpx6	1.314E-142	-4.15777265	0.023	0.328	3.117E-138	Blck6_TAL
H2-Eb1	1.249E-123	4.95577115	0.585	0.359E-142	2.20487424	Tef	3.359E-142	-2.20487424	0.223	0.697	7.966E-138	Blck6_TAL
H2-Q4	3.54E-123	6.06395644	0.554	0.017	8.396E-119	Akr1c21	1.935E-137	-2.74287841	0.085	0.489	4.591E-133	Blck6_TAL
Irf1	4.729E-121	4.788141534	0.573	0.041	1.122E-116	Tom1l2	1.977E-135	-1.49861623	0.698	0.942	4.688E-131	Blck6_TAL
Tsc22d1	3.862E-120	1.97336282	0.817	0.502	9.16E-116	Bckdhb	2.458E-135	-1.39612446	0.776	0.965	5.831E-131	Blck6_TAL
Parp14	2.742E-119	4.50064708	0.575	0.046	6.504E-115	Slc22a8	3.885E-135	-4.85613474	0.008	0.26	9.215E-131	Blck6_TAL
H2-Q6	6.59E-119	6.64638326	0.532	0.006	1.563E-114	Mfsd4a	1.172E-133	-1.63609537	0.455	0.876	2.779E-129	Blck6_TAL
Vmp1	7.712E-114	1.62303399	0.876	0.64	1.829E-109	mt-Co1	2.184E-132	-1.31691841	0.776	0.985	5.18E-128	Blck6_TAL
Naaladl2	6.937E-113	1.63660176	0.891	0.573	1.645E-108	Acsm2	9.588E-132	-3.04310962	0.07	0.441	2.274E-127	Blck6_TAL
Gm16685	1.828E-111	1.32440106	0.933	0.757	4.335E-107	Umod	2.494E-131	-1.21536213	0.974	0.995	5.916E-127	Blck6_TAL
H2-T23	9.169E-111	3.99405373	0.567	0.07	2.175E-106	mt-Nd5	3.771E-131	-1.94766022	0.247	0.723	8.943E-127	Blck6_TAL
Olfr56	1.882E-110	6.14351002	0.514	0.014	4.464E-106	Robo3	2.014E-129	-5.45889823	0.008	0.251	4.776E-125	Blck6_TAL
Dcdc2a	1.707E-108	4.32482831	0.545	0.047	4.05E-104	Dbp	1.883E-127	-2.88413742	0.064	0.418	4.466E-123	Blck6_TAL
Gbp3	5.305E-107	4.91581716	0.516	0.021	1.258E-102	Cms1	3.175E-127	-1.00380005	0.916	0.991	7.53E-123	Blck6_TAL
Gclc	8.287E-103	3.22225729	0.774	0.504	1.9657E-98	Aldob	4.29E-127	-1.8832431	0.344	0.81	1.017E-122	Blck6_TAL
AW112010	3.554E-101	7.99852009	0.472	0.003	8.4302E-97	mt-Nd4l	1.495E-124	-2.33886736	0.172	0.6	3.547E-120	Blck6_TAL
Adamts1	2.7262E-98	5.27993763	0.492	0.031	6.4663E-94	Nat8f1	5.07E-124	-3.20257244	0.05	0.378	1.203E-119	Blck6_TAL
Tap1	1.0882E-97	4.55866492	0.496	0.032	2.5811E-93	Gm42962	2.508E-123	-3.12303635	0.048	0.374	5.95E-119	Blck6_TAL
Psmb9	6.1367E-97	5.13557082	0.479	0.02	1.4556E-92	Ptger3	2.75E-122	-1.79242855	0.604	0.874	6.522E-118	Blck6_TAL
Lyz2	7.7746E-97	6.44472516	0.463	0.006	1.8441E-92	Slc22a4	2.501E-121	-1.78598685	0.349	0.784	5.933E-117	Blck6_TAL
Pigr	7.0958E-96	3.43197633	0.542	0.086	1.683E-91	Pah	1.509E-118	-3.05555057	0.048	0.364	3.58E-114	Blck6_TAL
Apoe	2.6093E-94	2.85770564	0.622	0.182	6.1889E-90	Cpeb3	3.119E-117	-1.08639928	0.811	0.975	7.397E-113	Blck6_TAL
Ifitm3	1.1471E-93	4.13683784	0.498	0.046	2.7207E-89	Ppargc1b	1.28E-114	-1.62209284	0.383	0.809	3.035E-110	Blck6_TAL
Stat3	5.8991E-93	1.46811537	0.818	0.553	1.3992E-88	Gm42697	2.222E-114	-2.77854742	0.065	0.397	5.27E-110	Blck6_TAL
Akt3	2.5263E-92	6.21595925	0.605	0.152	5.9922E-87	Rdh16f2	4.297E-111	-5.31893725	0.004	0.204	1.019E-106	Blck6_TAL
F830016B08R	3.1976E-92	4.30257274	0.461	0.012	7.5845E-88	Raly1	3.148E-110	-2.12564727	0.211	0.626	7.466E-106	Blck6_TAL
Cd274	5.7008E-92	4.16891516	0.488	0.044	1.3522E-87	Thrb	1.369E-109	-1.19724216	0.709	0.954	3.248E-105	Blck6_TAL
Spns2	9.84E-92	3.52596062	0.538	0.096	2.334E-87	Stxbp4	3.464E-108	-1.33609082	0.643	0.914	8.215E-104	Blck6_TAL
Nfkbi	8.3376E-91	2.67609663	0.616	0.205	1.9776E-86	Fut9	1.034E-107	-2.33041533	0.111	0.489	2.452E-103	Blck6_TAL
Tmsb10	1.2968E-90	4.14025771	0.489	0.049	3.076E-86	Cdk1l	1.116E-106	-1.18781913	0.67	0.949	2.647E-102	Blck6_TAL
Cxcl10	3.8439E-90	5.43419728	0.453	0.017	9.1173E-86	Dock8	1.845E-106	-1.19396344	0.753	0.959	4.375E-102	Blck6_TAL
Oasl2	4.0533E-87	4.30628217	0.443	0.015	9.614E-83	Rap1gap	6.509E-106	-1.6069958	0.386	0.784	1.544E-101	Blck6_TAL
Ccl5	1.286E-86	7.38070004	0.426	0.006	3.0503E-82	Tmem27	5.864E-103	-1.89008407	0.183	0.6	1.3908E-98	Blck6_TAL
Serping1	4.7037E-81	6.54496465	0.406	0.006	1.1157E-76	Pex5l	6.07E-102	-3.09384256	0.052	0.342	1.4397E-97	Blck6_TAL
Stat2	8.6278E-81	2.49896185	0.558	0.144	2.0464E-76	6330410L2IRi	1.785E-100	-3.61760977	0.026	0.266	4.234E-96	Blck6_TAL
Adgrg3	3.7746E-80	2.94941342	0.528	0.118	8.9529E-76	Car4	1.961E-99	-2.36440308	0.091	0.429	4.6504E-95	Blck6_TAL
Defb1	2.1419E-79	2.22259668	0.796	0.599	5.0804E-75	Nkap5	3.405E-99	-1.17754937	0.682	0.937	8.0762E-95	Blck6_TAL
Syt2	3.2065E-79	5.03370913	0.421	0.023	7.6055E-75	Ckb	6.106E-99	-1.96596463	0.294	0.689	1.4483E-94	Blck6_TAL
AC135964.2	7.2849E-79	4.40399579	0.455	0.057	1.7279E-74	Cox6c	1.1858E-98	-1.54058206	0.497	0.847	2.8126E-94	Blck6_TAL
Herc6	2.0798E-78	2.94751133	0.511	0.109	4.9331E-74	Ass1	2.2797E-98	-2.22873924	0.123	0.481	5.4073E-94	Blck6_TAL
Gm12185	4.2389E-77	5.06535193	0.399	0.009	1.0054E-72	Afm	2.4263E-98	-2.92370693	0.048	0.325	5.755E-94	Blck6_TAL
Rnf213	7.2351E-76	2.1366658	0.637	0.292	1.7161E-71	Cyp4a10	2.6378E-96	-4.13272378	0.014	0.221	6.2566E-92	Blck6_TAL
Cd52	4.2635E-75	5.53191968	0.394	0.014	1.0113E-70	Ryr2	3.5074E-95	-2.93449088	0.05	0.323	8.3191E-91	Blck6_TAL
Tap2	6.9079E-74	2.88018941	0.496	0.109	1.6385E-69	Pcyt2	1.1789E-94	-1.51520125	0.359	0.755	2.7912E-90	Blck6_TAL
Flnb	2.8265E-72	1.52108914	0.757	0.511	6.7042E-68	Ccnd1	2.0931E-92	-1.91521833	0.202	0.583	4.9645E-88	Blck6_TAL
Dysf	9.1957E-72	1.67326138	0.711	0.383	2.1811E-67	Lnx1	4.0851E-92	-1.13978731	0.646	0.916	9.6894E-88	Blck6_TAL
Sat1	1.4811E-70	1.6383816	0.805	0.639	3.5129E-66	Tmem116						

Ptbp3	1.2114E-51	1.37551728	0.702	0.493	2.8734E-47	Acacb	1.0514E-73	-1.3009422	0.416	0.753	2.4938E-69	Blck6_TAL
Ehf	2.9863E-51	1.84670891	0.543	0.248	7.0832E-47	Gm49272	1.6267E-73	-2.28801408	0.066	0.322	3.8584E-69	Blck6_TAL
Tgtp2	3.9088E-51	8.78181521	0.276	0	9.2713E-47	Ranbp3l	2.135E-73	-1.48112633	0.454	0.767	5.0639E-69	Blck6_TAL
Gvin1	6.0287E-51	4.46567237	0.3	0.017	1.4299E-46	Fam81a	2.4263E-73	-1.97779101	0.121	0.423	5.755E-69	Blck6_TAL
Sh2d4b	1.176E-50	5.41747095	0.296	0.015	2.7895E-46	Ano4	3.0904E-73	-2.22570182	0.205	0.516	7.3302E-69	Blck6_TAL
Lgals3	7.52E-50	1.96142708	0.542	0.259	1.7837E-45	Retsat	3.924E-73	-2.55499234	0.059	0.302	9.3073E-69	Blck6_TAL
Il7	8.8389E-50	2.37275964	0.498	0.216	2.0965E-45	Sv2a	1.0152E-72	-1.63369723	0.211	0.554	2.4081E-68	Blck6_TAL
Clic1	1.7843E-49	1.50247332	0.631	0.371	4.2321E-45	Acadbsb	1.0998E-72	-1.18394134	0.509	0.822	2.6086E-68	Blck6_TAL
Cxcl9	5.5077E-49	9.05050058	0.266	0	1.3064E-44	Pcsk6	1.361E-72	-1.47382663	0.414	0.734	3.2283E-68	Blck6_TAL
Trim12a	5.5659E-49	2.13841382	0.464	0.167	1.3202E-44	Cabccoc1	1.4317E-72	-1.50589083	0.346	0.685	3.3958E-68	Blck6_TAL
Elov7	5.9562E-49	1.05013308	0.786	0.646	1.4127E-44	Pdzrn4	1.619E-72	-2.09920112	0.096	0.377	3.84E-68	Blck6_TAL
Snx10	7.0334E-49	4.12995551	0.297	0.018	1.6682E-44	Ndufa4	1.7098E-72	-1.37138983	0.477	0.783	4.0554E-68	Blck6_TAL
Tgfb1	8.3166E-49	1.98674685	0.606	0.378	1.9726E-44	Map2k6	1.6393E-71	-1.87808505	0.138	0.446	3.8883E-67	Blck6_TAL
Xdh	2.7786E-48	5.13177336	0.282	0.012	6.5905E-44	Chchd10	1.1868E-70	-1.1612615	0.562	0.85	2.8149E-66	Blck6_TAL
Arap2	2.9267E-48	2.95243834	0.349	0.058	6.9418E-44	Frip2	2.2269E-70	-1.38696729	0.474	0.767	5.2821E-66	Blck6_TAL
S100a6	7.0927E-48	8.2323332	0.383	0.095	1.6823E-43	Ces1d	6.0889E-69	-3.49803555	0.011	0.162	1.4442E-64	Blck6_TAL
Acs4	1.7602E-47	1.84573954	0.577	0.312	4.1749E-43	Atp5g1	8.568E-69	-1.21683967	0.509	0.816	2.0322E-64	Blck6_TAL
Psmb10	1.7626E-47	3.47458974	0.323	0.044	4.1807E-43	Colgalt2	1.4123E-68	-1.60894443	0.265	0.603	3.3498E-64	Blck6_TAL
Casp12	9.9202E-47	5.51408429	0.265	0.006	2.353E-42	Atp5a1	8.4897E-67	-1.0118298	0.691	0.907	2.0137E-62	Blck6_TAL
Mapk4	1.2555E-46	2.91313662	0.374	0.087	2.9779E-42	Sec62	2.1237E-66	-1.01167632	0.579	0.858	5.0371E-62	Blck6_TAL
Psmc1	6.2628E-44	2.00868608	0.445	0.161	1.4855E-39	Pck1	2.6913E-66	-2.15555689	0.079	0.329	6.3834E-62	Blck6_TAL
Zbp1	6.5645E-44	7.65514624	0.244	0.002	1.557E-39	Dnase1	4.6062E-66	-4.47027991	0.008	0.144	1.0925E-61	Blck6_TAL
Gm4070	6.939E-44	4.70498933	0.266	0.015	1.6459E-39	Slc13a3	6.1728E-66	-3.49159591	0.019	0.184	1.4641E-61	Blck6_TAL
Gbp5	2.3816E-43	5.71989392	0.252	0.008	5.6488E-39	Cyp2a4	7.5646E-65	-3.56934845	0.011	0.156	1.7943E-60	Blck6_TAL
Msn	6.5549E-43	1.63112506	0.557	0.292	1.5547E-38	Cyp51	2.6577E-64	-2.35671946	0.058	0.28	6.3037E-60	Blck6_TAL
Mmp7	8.1999E-43	9.62910131	0.237	0	1.9449E-38	Egfl6	6.3646E-64	-1.51876755	0.271	0.603	1.5096E-59	Blck6_TAL
Bnc2	1.7145E-42	2.71728609	0.366	0.101	4.0667E-38	Slc22a12	8.8702E-64	-2.57904491	0.037	0.233	2.1039E-59	Blck6_TAL
Kansl1l	1.8107E-42	1.05223537	0.853	0.804	4.2947E-38	Atp5h	9.9181E-64	-1.43773067	0.327	0.651	2.1153E-59	Blck6_TAL
Gm8439	2.4512E-42	3.74863225	0.279	0.028	5.8141E-38	Ak4	1.2242E-63	-3.28073861	0.013	0.162	2.9037E-59	Blck6_TAL
Rps29	3.1523E-42	1.11078035	0.765	0.594	7.4769E-38	Fras1	3.9293E-63	-1.82383976	0.146	0.432	9.32E-59	Blck6_TAL
Gsr	4.8384E-42	1.74164871	0.521	0.274	1.1476E-37	Adhfe1	1.0105E-62	-1.60098936	0.182	0.485	2.3969E-58	Blck6_TAL
C3	4.9963E-42	4.96680735	0.251	0.011	1.1851E-37	Idh2	1.0787E-62	-1.00656108	0.512	0.819	2.5586E-58	Blck6_TAL
Ccdc148	7.1654E-42	1.41353415	0.702	0.516	1.6996E-37	Sgk2	3.6893E-62	-1.34928402	0.311	0.634	8.7506E-58	Blck6_TAL
Pla2g16	7.6315E-42	3.03845711	0.315	0.057	1.8101E-37	Hao2	6.4256E-62	-1.70844703	0.145	0.435	1.5241E-57	Blck6_TAL
Ctss	7.2695E-41	5.10671946	0.247	0.012	1.7243E-36	Tgfb1r3	6.8439E-62	-1.25922125	0.371	0.7	1.6233E-57	Blck6_TAL
Nav2	2.2219E-40	1.085982	0.792	0.723	5.2701E-36	Bsnd	1.2997E-61	-1.57226081	0.182	0.487	3.0829E-57	Blck6_TAL
S100a10	2.7963E-40	1.88835317	0.468	0.202	6.6326E-36	Nr1d2	4.7779E-61	-1.25328937	0.333	0.666	1.1333E-56	Blck6_TAL
Myliip	6.9355E-40	2.38827865	0.374	0.113	1.645E-35	Knt11	8.2025E-61	-1.59540387	0.148	0.435	1.9456E-56	Blck6_TAL
Casp4	8.0586E-40	6.7831627	0.227	0.003	1.9114E-35	Gm29266	1.2029E-60	-3.36119096	0.023	0.187	2.8532E-56	Blck6_TAL
Nmi	1.3756E-39	2.08636846	0.415	0.153	3.2627E-35	Casr	1.9536E-60	-1.34204996	0.519	0.76	4.6337E-56	Blck6_TAL
Abca1	1.9368E-39	3.21714962	0.283	0.04	4.5938E-35	Vegfa	6.3366E-60	-1.1867492	0.386	0.695	1.503E-55	Blck6_TAL
Ifi27	3.2549E-39	1.60648138	0.495	0.231	7.7204E-35	Chst9	1.2922E-59	-1.03207025	0.561	0.839	3.065E-55	Blck6_TAL
Plezo1	4.2856E-39	1.19829394	0.655	0.453	1.0165E-34	Cat	2.7667E-59	-1.49469377	0.185	0.493	6.5622E-55	Blck6_TAL
Gm10073	6.9361E-39	1.23633781	0.693	0.518	1.6452E-34	Scn4b	3.7891E-59	-2.71335187	0.046	0.24	8.9873E-55	Blck6_TAL
Tacc2	1.4109E-38	1.62252535	0.703	0.587	3.3465E-34	Mgst3	4.4523E-59	-1.35144384	0.273	0.591	1.056E-54	Blck6_TAL
Fbxw17	1.6529E-38	2.53264089	0.308	0.057	3.9206E-34	Igf1	4.3518E-58	-3.16440859	0.017	0.164	1.0322E-53	Blck6_TAL
Jun	3.9825E-38	2.28491633	0.372	0.119	9.4461E-34	Klhl3	6.1376E-58	-1.71207259	0.188	0.476	1.4558E-53	Blck6_TAL
Dtx3l	4.0347E-38	3.32005339	0.28	0.044	9.5698E-34	Mag3	6.4388E-58	-1.2452441	0.721	0.882	1.5272E-53	Blck6_TAL
Upp1	6.254E-38	3.26681673	0.293	0.055	1.4834E-33	Ugt3a2	6.5897E-58	-3.03950237	0.021	0.176	1.563E-53	Blck6_TAL
Samhd1	9.151E-38	2.05806548	0.432	0.178	2.1705E-33	Mthfd1	7.0682E-58	-1.22076443	0.39	0.7	1.6765E-53	Blck6_TAL
Cep85	9.3232E-38	1.96438073	0.542	0.325	2.2114E-33	Paps2	7.2991E-58	-1.63050906	0.168	0.456	1.7313E-53	Blck6_TAL
Fyb2	9.192E-37	2.87236455	0.305	0.069	2.1803E-32	Cox6b1	9.8992E-58	-1.16900299	0.509	0.778	2.348E-53	Blck6_TAL
Zfp361l	1.8719E-36	1.30435751	0.68	0.528	4.4399E-32	Acat1	1.1273E-57	-1.09136384	0.421	0.738	2.6738E-53	Blck6_TAL
Serpina10	2.5924E-36	3.79186912	0.238	0.02	6.1488E-32	Pdzk1	1.7613E-57	-2.07704873	0.068	0.289	4.1776E-53	Blck6_TAL
Osmr	3.3093E-36	4.08151406	0.222	0.009	7.8494E-32	Rtl4	3.6432E-57	-3.43018356	0.036	0.211	8.6414E-53	Blck6_TAL
Mylk	4.0664E-36	1.647936	0.572	0.366	9.6452E-32	Ces1f	1.2096E-56	-2.93092268	0.017	0.162	2.869E-52	Blck6_TAL
Rtn4	9.1917E-36	1.27710192	0.674	0.496	2.1802E-31	Slc22a6	1.7943E-56	-2.32020913	0.046	0.24	2.2558E-52	Blck6_TAL
Patl2	2.7829E-35	3.36178616	0.252	0.032	6.6007E-31	Ndufb9	3.8991E-56	-1.31834434	0.379	0.68	9.2483E-52	Blck6_TAL
Samd5	3.0351E-35	1.88661613	0.429	0.184	7.1991E-31	Irs1	4.1125E-56	-1.26984692	0.33	0.639	9.745E-52	Blck6_TAL
Tinagl1	3.9729E-35	2.5428711	0.344	0.11	9.4234E-31	Fmo1	6.9785E-56	-3.01180357	0.017	0.159	1.6552E-51	Blck6_TAL
Astrn2	4.3584E-35	3.62140591	0.335	0.109	1.0338E-30	4732465J04Ri	1.4753E-55	-1.34426074	0.318	0.62	3.4992E-51	Blck6_TAL
Sbno2	4.9098E-35	1.4928992	0.516	0.283	1.1645E-30	Rph3a	4.8186E-55	-4.12735114	0.006	0.121	1.1429E-50	Blck6_TAL
Gm47283	5.0365E-35	2.87312374	0.272	0.046	1.1946E-30	Ppp1r1b	4.9645E-55	-1.69229598	0.118	0.375	1.1775E-50	Blck6_TAL
Wsb1	6.6054E-35	1.21975418	0.622	0.406	1.5667E-30	Fabp3	8.5997E-55	-1.50477876	0.188	0.476	2.0398E-50	Blck6_TAL
Pdk4	1.0684E-34	3.14805782	0.312	0.084	2.534E-30	Prkd1	2.0374E-54	-1.6029544	0.6	0.809	4.8325E-50	Blck6_TAL
Rasal2	1.0795E-34	1.31638486	0.616	0.413	2.5605E-30	Gm44386	1.6555E-53	-2.0033614	0.08	0.299	3.9267E-49	Blck6_TAL
Tspan14	1.421E-34	1.59244472	0.505	0.277	3.3704E-30	Dmtn	2.0819E-53	-1.01185597	0.426	0.735	4.938E-49	Blck6_TAL
Kif23	1.6767E-34	2.37303783	0.368	0.135	3.977E-30	Gm19461	7.7965E-53	-1.64044362	0.135	0.394	1.8493E-48	Blck6_TAL
Pea15a	2.0847E-34	2.24217904	0.364	0.13	4.9447E-30	Trak2	8.4058E-53	-1.11452876	0.433	0.718	1.9938E-48	Blck6_TAL
Smchd1	2.6214E-34	1.23280282	0.691	0.556	6.2177E-30	Edar	1.6051E-52	-2.25519392	0.067	0.273	3.8071E-48	Blck6_TAL
Cebpd	6.0612E-34	4.70451593	0.214	0.012	1.4376E-29	Pla1a	7.2334E-52	-1.03477813	0.414	0.715	1.7157E-47	Blck6_TAL
Ifi44	8.0601E-34	3.28287191	0.237	0.026	1.9118E-29	Cnnm1	1.2746E-51	-1.49266847	0.177	0.45	3.0231E-47	Blck6_TAL
Rpl27a	9.4461E-34	1.1418446	0.655	0.455	2.2405E-29	Ugtr11	1.5439E-51	-1.32350759	0.289	0.585	3.6621E-47	Blck6_TAL
Ly6c1	1.1461E-33	2.68017176	0.296	0.072	2.7183E-29	Cyp4a14	6.9884E-51	-4.38131169	0.007	0.115	1.6576E-46	Blck6_TAL
C1qa	1.5264E-33	4.46584838	0.214	0.014	3.6205E-29	Scd1	3.9727E-50	-2.7713713	0.026	0.175	9.428E-46	Blck6_TAL
Ifit3	2.8409E-33	4.16625157	0.226	0.023	6.7383E-29	Acaa1b	1.4967E-49	-2.58616546	0.031	0.187	3.5499E-45	Blck6_TAL
Rasgrp1	3.7947E-33	1.44834866	0.532	0.314	9.0005E-29	Spink1	1.7176E-49	-1.53708926	0.188	0.458	4.074E-45	Blck6_TAL
Vim	4.4898E-33											

Ctps	5.8999E-28	2.1043131	0.291	0.086	1.3994E-23	Hgd	1.2696E-41	-2.77818336	0.026	0.156	3.0113E-37	Blck6_TAL
Samd4	6.7331E-28	1.99404161	0.36	0.149	1.597E-23	Pdk2	1.2958E-41	-1.25699212	0.194	0.446	3.0735E-37	Blck6_TAL
Cd24a	2.0976E-27	1.11227132	0.598	0.433	4.9753E-23	Mlga2	5.1084E-41	-1.29745439	0.178	0.421	1.2117E-36	Blck6_TAL
Arnt1	2.6394E-27	4.61511893	0.174	0.009	6.2604E-23	D3ErtD751e	1.5374E-40	-1.32554668	0.185	0.429	3.6465E-36	Blck6_TAL
Traf1d	5.4499E-27	2.42787928	0.259	0.067	1.2927E-22	Gm42650	2.6111E-40	-2.56535302	0.024	0.15	6.1932E-36	Blck6_TAL
Vwa5a	9.7086E-27	1.79100951	0.335	0.132	2.3028E-22	Ak3	2.8064E-40	-1.09048411	0.277	0.545	6.6566E-36	Blck6_TAL
Parp10	1.057E-26	1.75317954	0.323	0.115	2.5072E-22	Adcy1	3.5252E-40	-1.17401613	0.221	0.478	8.3614E-36	Blck6_TAL
Pfn1	1.5324E-26	1.31407278	0.497	0.306	6.3347E-22	Acadm	3.775E-40	-1.04494373	0.341	0.606	8.9539E-36	Blck6_TAL
Rps12-ps3	1.5483E-26	1.91772601	0.338	0.138	3.6724E-22	Hadh	6.0041E-40	-1.39135483	0.14	0.364	1.4241E-35	Blck6_TAL
Gm19684	2.1717E-26	4.36637146	0.165	0.006	5.151E-22	Sned1	6.4027E-40	-1.89524883	0.093	0.283	1.5187E-35	Blck6_TAL
Arpc1b	2.788E-26	2.05387752	0.291	0.093	6.6128E-22	Slc5a2	7.2991E-40	-2.74474303	0.028	0.158	1.7313E-35	Blck6_TAL
Rpl9-ps6	2.9765E-26	1.03600929	0.669	0.528	7.06E-22	C230037L18R1	1.0616E-39	-1.59564058	0.091	0.285	2.5179E-35	Blck6_TAL
Idnk	3.1913E-26	1.72471505	0.346	0.142	7.5695E-22	Tmem86a	2.6461E-39	-2.84170888	0.016	0.126	6.2763E-35	Blck6_TAL
Ehd4	3.5644E-26	2.31914987	0.282	0.092	8.4545E-22	Gsta2	2.9529E-39	-2.38131881	0.024	0.149	7.0041E-35	Blck6_TAL
Tyrobp	4.1209E-26	5.9236444	0.157	0.003	9.7743E-22	Hlf	3.3227E-39	-1.94737268	0.065	0.236	7.8812E-35	Blck6_TAL
Acsf5	4.2971E-26	1.35790334	0.441	0.236	1.0192E-21	Cubn	3.481E-39	-2.36851562	0.034	0.172	8.2566E-35	Blck6_TAL
Susd1	7.2791E-26	3.33437403	0.195	0.026	1.7265E-21	Bag1	6.5891E-39	-1.0380567	0.327	0.591	1.5629E-34	Blck6_TAL
Ildr1	1.0809E-25	1.07421478	0.565	0.387	2.5639E-21	Ndufb10	7.1477E-39	-1.13146542	0.293	0.557	1.6954E-34	Blck6_TAL
Rps4x	1.3056E-25	1.08787827	0.596	0.421	3.0967E-21	Gm47719	1.2332E-38	-2.13823969	0.034	0.172	2.9251E-34	Blck6_TAL
Gm44511	1.3147E-25	1.31208701	0.48	0.296	3.1184E-21	Atp5j2	1.5352E-38	-1.04387847	0.433	0.674	3.6414E-34	Blck6_TAL
Rnf19b	1.661E-25	2.48424608	0.25	0.066	3.9398E-21	Abhd6	1.6828E-38	-1.05124618	0.353	0.619	3.9913E-34	Blck6_TAL
Mt1	1.6755E-25	1.13716714	0.775	0.73	3.9741E-21	4930481A15R	3.2704E-38	-1.59815426	0.091	0.282	7.7572E-34	Blck6_TAL
St3gal1	2.0164E-25	4.52517246	0.164	0.009	4.7828E-21	Ttc36	7.053E-38	-1.10630021	0.278	0.542	1.6729E-33	Blck6_TAL
Capn5	2.1146E-25	1.9387851	0.318	0.124	5.0157E-21	Pcbd1	7.335E-38	-1.36384837	0.157	0.378	1.7398E-33	Blck6_TAL
Glpr2	2.1199E-25	4.54860786	0.157	0.005	5.0282E-21	Gm42397	1.7977E-37	-3.13159071	0.015	0.119	4.2639E-33	Blck6_TAL
Socs3	2.3112E-25	3.87685552	0.172	0.014	5.482E-21	Chchd6	1.8491E-37	-1.18769589	0.269	0.513	4.386E-33	Blck6_TAL
Lgals1	2.8973E-25	2.29676085	0.27	0.086	6.8722E-21	Bmp7	4.6459E-37	-1.57553477	0.097	0.288	1.102E-32	Blck6_TAL
Mklk	4.9922E-25	2.61962066	0.192	0.026	1.1841E-20	Ugt2b38	5.3611E-37	-2.33736424	0.027	0.152	1.2716E-32	Blck6_TAL
Havcr1	6.186E-25	1.73697845	0.147	0.002	1.4673E-20	Gm13111	1.031E-36	-1.55422324	0.11	0.305	2.4455E-32	Blck6_TAL
Erap1	7.7056E-25	1.75112803	0.313	0.115	1.8277E-20	Pdk1	1.7518E-36	-1.21385183	0.231	0.47	4.1551E-32	Blck6_TAL
Cacna1h	9.1358E-25	6.45698386	0.147	0.002	2.1669E-20	Bckdha	2.3953E-36	-1.1040605	0.266	0.519	5.6814E-32	Blck6_TAL
Ccl8	9.7929E-25	8.09226637	0.144	0	2.3228E-20	Epcam	2.8203E-36	-1.05196228	0.423	0.66	6.6895E-32	Blck6_TAL
Rpl18a	9.8759E-25	1.13466699	0.515	0.315	2.3425E-20	Mgam	5.1333E-36	-2.24589938	0.033	0.161	1.2176E-31	Blck6_TAL
Nsun7	1.4317E-24	1.93318593	0.273	0.086	3.3958E-20	C920021L13R1	9.2643E-36	-1.18662757	0.218	0.453	2.1974E-31	Blck6_TAL
Fmnl2	2.4332E-24	1.02219831	0.609	0.44	5.7714E-20	4930556J24R1	9.6881E-36	-1.19209726	0.285	0.531	2.2979E-31	Blck6_TAL
Adamts6	4.5868E-24	1.90229273	0.314	0.126	1.088E-19	Rida	1.3835E-35	-1.03467326	0.378	0.619	3.2816E-31	Blck6_TAL
Pabpc1	2.9459E-23	1.19556105	0.482	0.296	6.9873E-19	Acaa2	1.8336E-35	-1.19617839	0.163	0.387	4.3491E-31	Blck6_TAL
Cstb	3.323E-23	1.62447102	0.356	0.17	7.8818E-19	Slc9a2	3.9389E-35	-1.80294913	0.09	0.266	9.3427E-31	Blck6_TAL
Cerkl	4.3556E-23	1.49958935	0.326	0.133	1.0331E-18	Atf6ip1	7.5885E-35	-1.02308015	0.347	0.591	1.7999E-30	Blck6_TAL
Cttn	6.1241E-23	1.28592051	0.422	0.233	1.4526E-18	Ybx2	9.2385E-35	-1.97266677	0.053	0.201	2.1913E-30	Blck6_TAL
Tmem140	6.3509E-23	2.54423055	0.213	0.049	1.5064E-18	Insig1	9.5696E-35	-2.45935663	0.018	0.121	2.2763E-30	Blck6_TAL
Zfp697	6.5689E-23	1.66551675	0.373	0.182	1.5581E-18	Cox5b	1.2187E-34	-1.19340337	0.264	0.495	2.8906E-30	Blck6_TAL
9130230L23R	8.4046E-23	2.77573737	0.197	0.038	1.9935E-18	Galm	1.2337E-34	-1.31689878	0.144	0.352	2.9263E-30	Blck6_TAL
C230088H06F	1.0195E-22	2.12080644	0.271	0.095	2.4182E-18	Slc7a8	1.3022E-34	-1.52578041	0.152	0.358	3.0887E-30	Blck6_TAL
Trim30a	1.1815E-22	4.41038009	0.194	0.037	2.8025E-18	Gm10635	1.4467E-34	-3.06465725	0.015	0.113	3.4313E-30	Blck6_TAL
Tubb5	1.188E-22	2.18028323	0.239	0.069	2.8177E-18	Cntfr	5.1968E-34	-2.86462016	0.018	0.118	1.2326E-29	Blck6_TAL
Cp	1.2231E-22	3.27686417	0.222	0.058	2.9012E-18	Adam22	5.9588E-34	-1.27363086	0.179	0.397	1.4134E-29	Blck6_TAL
Myo1b	1.6725E-22	2.55051883	0.217	0.054	3.9671E-18	Aldh8a1	6.218E-34	-2.22788908	0.027	0.144	1.4748E-29	Blck6_TAL
Gm12860	1.7691E-22	3.48948902	0.157	0.014	4.1961E-18	Gm13052	1.7276E-33	-1.71510245	0.095	0.268	4.0977E-29	Blck6_TAL
Gpr39	1.7767E-22	1.26033254	0.387	0.187	4.2142E-18	Filip1l	2.7547E-33	-1.20749946	0.392	0.606	6.5338E-29	Blck6_TAL
Ndrp1	2.4636E-22	1.27639032	0.507	0.342	5.8434E-18	Bcat2	2.7698E-33	-1.18354221	0.224	0.446	6.5697E-29	Blck6_TAL
Acot9	3.2615E-22	1.41038803	0.394	0.211	7.736E-18	Bpnt1	5.3019E-33	-1.2634308	0.2	0.418	1.2575E-28	Blck6_TAL
Isg15	3.8803E-22	2.97030867	0.156	0.014	9.2036E-18	Ndufa5	1.421E-32	-1.26859429	0.205	0.42	3.3705E-28	Blck6_TAL
Capg	4.5585E-22	1.95060107	0.243	0.072	1.0812E-17	Acot11	2.3827E-32	-1.54064877	0.137	0.326	5.6515E-28	Blck6_TAL
Tlcd2	4.6454E-22	1.19898155	0.476	0.3	1.1018E-17	Ish1	3.0453E-32	-1.20825732	0.135	0.337	7.2232E-28	Blck6_TAL
Unc93b1	4.9387E-22	1.87415874	0.265	0.089	1.1714E-17	4931406C07R	5.6238E-32	-1.30821967	0.161	0.364	1.3339E-27	Blck6_TAL
Pde10a	6.6995E-22	2.75286418	0.227	0.066	1.5891E-17	SrebF2	5.974E-32	-1.12378655	0.228	0.453	1.417E-27	Blck6_TAL
Asic2	8.8683E-22	3.92792946	0.152	0.014	2.1035E-17	Fmo2	8.6448E-32	-2.33087705	0.024	0.132	2.0505E-27	Blck6_TAL
Npas2	1.4124E-21	3.71537654	0.154	0.015	3.3501E-17	Vstm2a	8.8439E-32	-2.53581508	0.027	0.136	2.0977E-27	Blck6_TAL
Hbegf	1.5182E-21	2.64023851	0.229	0.069	3.601E-17	Crocc	1.2956E-31	-1.61589524	0.074	0.231	3.073E-27	Blck6_TAL
H2-DMA	2.2365E-21	4.67007449	0.139	0.008	5.3047E-17	Prps2	2.0213E-31	-1.16795846	0.18	0.387	4.7944E-27	Blck6_TAL
Pmepa1	2.6623E-21	1.46067783	0.456	0.296	6.3147E-17	Elfn1	2.2932E-31	-1.20707225	0.18	0.391	5.4391E-27	Blck6_TAL
Ctsc	2.8369E-21	1.54376916	0.468	0.299	6.7288E-17	Mettl24	5.0485E-31	-1.27603123	0.192	0.397	1.1975E-26	Blck6_TAL
Birc3	3.358E-21	1.54280367	0.361	0.181	7.9649E-17	Myo3a	5.1551E-31	-1.78304463	0.073	0.227	1.2227E-26	Blck6_TAL
Coro1a	4.8186E-21	4.91413977	0.132	0.005	1.1429E-16	Phyhipl	8.5763E-31	-1.04697102	0.323	0.559	2.0342E-26	Blck6_TAL
Ncam1	5.7023E-21	2.77401037	0.189	0.04	1.3525E-16	Tns2	8.6026E-31	-1.3336204	0.138	0.326	2.0405E-26	Blck6_TAL
Cebpb	5.7663E-21	3.03316621	0.172	0.029	1.3677E-16	Pcx	9.1226E-31	-1.5331694	0.103	0.274	2.1638E-26	Blck6_TAL
Srgap1	7.0594E-21	2.24853104	0.186	0.037	1.6744E-16	Ptgd5	1.1394E-30	-2.0623222	0.036	0.156	2.7026E-26	Blck6_TAL
Tapbp1	8.0732E-21	3.43463474	0.157	0.02	1.9149E-16	Msmo1	1.19E-30	-1.85348751	0.071	0.221	2.8225E-26	Blck6_TAL
Mpeg1	9.3262E-21	4.56944882	0.135	0.008	2.2121E-16	Acadv1	1.6005E-30	-1.20393502	0.171	0.372	3.7963E-26	Blck6_TAL
Pycard	1.3087E-20	1.6276596	0.306	0.132	3.1042E-16	Lzts3	1.7049E-30	-1.0756763	0.227	0.444	4.0439E-26	Blck6_TAL
Zc3hav1	1.7262E-20	1.888441	0.241	0.078	4.0944E-16	Snap91	1.8021E-30	-3.08778424	0.015	0.103	4.2744E-26	Blck6_TAL
Dock5	1.9633E-20	1.15773218	0.429	0.243	4.6566E-16	Al314278	3.0735E-30	-1.6654475	0.058	0.199	7.2901E-26	Blck6_TAL
Junb	2.2032E-20	1.37560362	0.338	0.159	5.2259E-16	Nr1d1	3.3996E-30	-1.73386493	0.047	0.178	8.0635E-26	Blck6_TAL
Serinc2	2.8726E-20	1.62828662	0.274	0.104	6.8136E-16	Jdp2	4.2529E-30	-1.28583438	0.13	0.315	1.0087E-25	Blck6_TAL
Itgb8	3.3909E-20	1.00749882	0.633	0.518	8.0428E-16	Mfap3l	6.4907E-30	-1.04740803	0.245	0.469	1.5395E-25	Blck6_TAL
Lgals3bp	3.4146E-20	2.88546724	0.173	0.032	8.0991E-16	Zfp385b	7.5396E-30	-1.38199435</				

Flna	5.4721E-18	2.70041932	0.162	0.034	1.2979E-13	Ephx2	9.8651E-25	-1.39307828	0.053	0.176	2.3399E-20	Blck6_TAL
Runx1	7.4644E-18	3.91282373	0.121	0.009	1.7705E-13	Scara5	1.4142E-24	-1.56390085	0.071	0.202	3.3543E-20	Blck6_TAL
Serpina3g	7.8384E-18	7.4399701	0.104	0	1.8592E-13	Atpe6v1b1	1.8965E-24	-1.44997929	0.095	0.24	4.4984E-20	Blck6_TAL
Sipa1l1	9.9212E-18	1.04922913	0.437	0.279	2.3532E-13	Depdc1b	1.964E-24	-1.31896224	0.1	0.25	4.6584E-20	Blck6_TAL
Ciita	1.0095E-17	3.52150983	0.129	0.014	2.3943E-13	Ehhadh	2.9101E-24	-1.39037172	0.092	0.236	6.9025E-20	Blck6_TAL
Rasd1	1.1839E-17	5.51471466	0.109	0.003	2.8082E-13	Bdh1	5.2967E-24	-1.07255131	0.13	0.296	1.2563E-19	Blck6_TAL
Tnfrsf21	1.8774E-17	1.11928521	0.502	0.372	4.4531E-13	Gnaz	6.0686E-24	-1.4478223	0.073	0.205	1.4394E-19	Blck6_TAL
Ly75	2.6354E-17	3.70527736	0.126	0.014	6.251E-13	Mgll	8.0233E-24	-1.18106188	0.133	0.299	1.903E-19	Blck6_TAL
Grn	3.0034E-17	1.44633344	0.306	0.15	7.1238E-13	Akr1c19	8.2561E-24	-1.04038228	0.116	0.277	1.9583E-19	Blck6_TAL
Rps11	3.4006E-17	1.07183135	0.48	0.34	8.066E-13	Bahcc1	8.9867E-24	-1.32307018	0.098	0.243	2.1316E-19	Blck6_TAL
4930599N23f	3.4543E-17	1.1585614	0.379	0.222	8.1933E-13	Esam	9.8279E-24	-1.31387601	0.072	0.205	2.3311E-19	Blck6_TAL
Sh3d19	3.5104E-17	1.04638371	0.435	0.274	8.3264E-13	Tmem38a	2.5113E-23	-1.15116211	0.124	0.282	5.9565E-19	Blck6_TAL
Notch1	3.6999E-17	2.54689317	0.164	0.038	8.7757E-13	Rgcc	3.353E-23	-2.0609892	0.035	0.133	7.9529E-19	Blck6_TAL
Gm6034	3.8186E-17	3.38419401	0.121	0.011	9.0574E-13	Ror2	3.7593E-23	-1.3376658	0.099	0.242	8.9168E-19	Blck6_TAL
Ddx60	4.4246E-17	2.77804032	0.128	0.015	1.0495E-12	Gm33023	3.9147E-23	-1.70628326	0.032	0.129	9.2853E-19	Blck6_TAL
Gm1604a	4.9948E-17	1.67189279	0.236	0.09	1.1847E-12	AA986860	4.0121E-23	-1.00961886	0.18	0.358	9.5163E-19	Blck6_TAL
Gm10260	5.4637E-17	4.9361132	0.108	0.005	1.2959E-12	Kcnn1	4.7109E-23	-1.72711541	0.04	0.144	1.1174E-18	Blck6_TAL
Trim34a	5.538E-17	1.76057548	0.21	0.069	1.3135E-12	Cela1	5.6018E-23	-1.9674172	0.031	0.124	1.3287E-18	Blck6_TAL
AU020206	7.4369E-17	4.32624997	0.113	0.008	1.764E-12	26100350D17R	5.8926E-23	-1.0712504	0.227	0.406	1.3977E-18	Blck6_TAL
Mgp	7.86E-17	2.5325488	0.181	0.054	1.8643E-12	Slc16a9	1.054E-22	-1.77726385	0.021	0.103	2.4999E-18	Blck6_TAL
Lapmt5	8.4037E-17	5.03240171	0.107	0.005	1.9933E-12	2410015M20f	1.081E-22	-1.02219505	0.209	0.394	2.564E-18	Blck6_TAL
Sp140	1.0905E-16	3.1736986	0.135	0.021	2.5866E-12	Slc26a10	1.3563E-22	-1.95805061	0.033	0.127	3.2169E-18	Blck6_TAL
Klf7	1.3064E-16	1.2906887	0.366	0.211	3.0987E-12	Cntd1	1.8718E-22	-1.34087272	0.086	0.222	4.4397E-18	Blck6_TAL
AC133498.1	1.5134E-16	3.71086994	0.114	0.009	3.5895E-12	Per2	2.0211E-22	-1.01805051	0.162	0.331	4.7938E-18	Blck6_TAL
Hap1	1.8303E-16	3.05585413	0.13	0.018	4.3413E-12	Dclk3	2.2583E-22	-1.37876274	0.102	0.243	5.3564E-18	Blck6_TAL
Tagln2	2.6748E-16	1.81506331	0.209	0.074	6.3443E-12	G6pc	2.278E-22	-2.14405729	0.027	0.115	5.4033E-18	Blck6_TAL
Sp100	2.7129E-16	4.15677224	0.105	0.005	6.4347E-12	Aass	5.196E-22	-1.56997087	0.05	0.159	1.2324E-17	Blck6_TAL
Lst1	2.8134E-16	5.57801826	0.101	0.003	6.6731E-12	Coq8a	7.6568E-22	-1.57977385	0.054	0.165	1.8161E-17	Blck6_TAL
Clqc	3.0232E-16	5.08039496	0.103	0.005	7.1707E-12	Tmem61	1.03E-21	-2.11886115	0.029	0.116	2.4431E-17	Blck6_TAL
Nxpe3	3.2376E-16	1.82397768	0.22	0.081	7.6793E-12	Lrpap1	1.2495E-21	-1.03289832	0.151	0.314	2.9637E-17	Blck6_TAL
Tnfrsf12a	3.9851E-16	2.69859319	0.151	0.034	9.4522E-12	Abat	1.5744E-21	-1.17265494	0.168	0.329	3.7342E-17	Blck6_TAL
Mcc	4.6649E-16	1.75303949	0.214	0.077	1.1065E-11	Slco1a6	1.8708E-21	-2.03301888	0.032	0.123	4.4374E-17	Blck6_TAL
Trpm3	4.9974E-16	1.21530382	0.318	0.162	1.1853E-11	Aqp1	1.9E-21	-1.0258793	0.084	0.219	4.5066E-17	Blck6_TAL
Cicf1	5.2036E-16	3.10456785	0.129	0.02	1.2342E-11	Crat	5.3096E-21	-1.14079845	0.135	0.286	1.2594E-16	Blck6_TAL
Rnf217	5.3749E-16	1.11436758	0.369	0.208	1.2749E-11	Slc47a1	6.858E-21	-1.40641934	0.071	0.193	1.6267E-16	Blck6_TAL
Hspb1	6.2799E-16	3.2598884	0.126	0.018	1.4895E-11	Rdm1	8.9533E-21	-1.38399638	0.067	0.184	1.236E-16	Blck6_TAL
Irf9	6.6977E-16	1.78797061	0.201	0.069	1.5886E-11	Klf15	9.6419E-21	-1.28519663	0.081	0.207	2.287E-16	Blck6_TAL
Serpinb9	7.3899E-16	2.76855333	0.141	0.028	1.7528E-11	Spa17	1.0102E-20	-1.5916408	0.061	0.173	2.396E-16	Blck6_TAL
Pdlim7	7.4306E-16	2.04566126	0.186	0.058	1.7625E-11	Dhcr24	1.3998E-20	-1.24597681	0.068	0.188	3.3202E-16	Blck6_TAL
Cxcl16	7.6754E-16	1.93979081	0.211	0.078	1.8205E-11	Tmem53	1.9525E-20	-1.04916817	0.124	0.273	4.6311E-16	Blck6_TAL
Pomp	9.7014E-16	1.26408959	0.324	0.172	2.3011E-11	Gm42889	1.9654E-20	-1.75744894	0.028	0.112	4.6617E-16	Blck6_TAL
Trim5	1.0769E-15	3.17387264	0.127	0.02	2.5543E-11	Cry2	2.5044E-20	-1.14158138	0.12	0.262	5.9402E-16	Blck6_TAL
Slc39a14	1.1333E-15	1.1416053	0.394	0.245	2.6882E-11	Ndufs7	2.9957E-20	-1.01585856	0.192	0.358	7.1055E-16	Blck6_TAL
Dapp1	1.3724E-15	2.14037019	0.155	0.037	3.2552E-11	Cadm4	4.2058E-20	-1.13003842	0.107	0.245	9.9758E-16	Blck6_TAL
Wars	1.3772E-15	1.83856305	0.226	0.092	3.2665E-11	Fam189a2	4.2086E-20	-1.32547974	0.086	0.213	9.9825E-16	Blck6_TAL
Rapgef4	1.5998E-15	4.2422611	0.11	0.011	3.7945E-11	Fam228b	4.3609E-20	-1.19195036	0.109	0.247	1.0344E-15	Blck6_TAL
Cdk6	1.8535E-15	1.3035344	0.297	0.147	4.3963E-11	Gnpda1	4.4957E-20	-1.08869054	0.094	0.227	1.0663E-15	Blck6_TAL
Abcg1	1.9194E-15	3.40908683	0.111	0.011	4.5526E-11	Slc25a35	4.4989E-20	-1.33793393	0.085	0.208	1.0671E-15	Blck6_TAL
Itpr3	2.2023E-15	2.60157499	0.136	0.026	5.2237E-11	Gpc5	5.2546E-20	-1.69587279	0.317	0.455	1.2463E-15	Blck6_TAL
Birc2	2.663E-15	1.04432114	0.467	0.328	6.3164E-11	Ak1	6.8343E-20	-1.31431226	0.072	0.188	1.621E-15	Blck6_TAL
Baz1a	2.6716E-15	1.37555648	0.252	0.11	6.3367E-11	Aldh2	8.4894E-20	-1.00618767	0.18	0.345	2.0136E-15	Blck6_TAL
Ppl	4.8137E-15	2.21601753	0.159	0.043	1.1418E-10	Slc5a8	9.9764E-20	-1.89733826	0.024	0.103	2.3663E-15	Blck6_TAL
Arhgdib	5.5249E-15	3.15968318	0.125	0.021	1.3105E-10	Idl1	1.0824E-19	-1.76664474	0.031	0.116	2.5673E-15	Blck6_TAL
Prosl	6.4019E-15	2.40426371	0.129	0.023	1.5185E-10	Akr7a5	1.1682E-19	-1.06045612	0.094	0.225	2.7709E-15	Blck6_TAL
Arhgap42	7.5263E-15	1.85235477	0.192	0.067	1.7852E-10	Oprm1	1.1755E-19	-1.19138546	0.068	0.184	2.7882E-15	Blck6_TAL
A230050P20R	8.5472E-15	2.03045619	0.165	0.047	2.0273E-10	Stard4	1.3283E-19	-1.64754028	0.038	0.129	3.1507E-15	Blck6_TAL
Ifit2	1.1284E-14	1.67860399	0.232	0.101	2.6765E-10	Filvr2	1.6955E-19	-1.03117343	0.158	0.312	4.0216E-15	Blck6_TAL
Tubb2b	1.2405E-14	1.97852216	0.158	0.043	2.9423E-10	Cd36	1.802E-19	-1.63785012	0.048	0.147	4.2741E-15	Blck6_TAL
Cdc42se2	1.2424E-14	1.01843428	0.368	0.216	2.947E-10	Thnsl2	1.949E-19	-1.46762972	0.042	0.138	4.6229E-15	Blck6_TAL
Mov10	1.2972E-14	1.59123078	0.202	0.074	3.0767E-10	Gm17029	2.4869E-19	-1.15342776	0.089	0.216	5.8987E-15	Blck6_TAL
Mvp	1.5961E-14	1.84158045	0.201	0.077	3.7858E-10	Gm26782	2.8476E-19	-1.03267872	0.156	0.306	6.7543E-15	Blck6_TAL
Pappa	1.8406E-14	1.15248488	0.378	0.225	4.3658E-10	Pbld1	2.9199E-19	-1.87475261	0.039	0.129	6.9257E-15	Blck6_TAL
Rsad2	3.1313E-14	2.44683752	0.109	0.014	7.4271E-10	Lipa	3.3388E-19	-1.03666878	0.092	0.222	7.9194E-15	Blck6_TAL
Usp18	3.4557E-14	2.33633285	0.107	0.012	8.1965E-10	Alpl	3.8735E-19	-1.57710913	0.028	0.109	9.1877E-15	Blck6_TAL
Tbrg1	3.6485E-14	1.50711387	0.235	0.104	8.6539E-10	Slc22a1	4.3037E-19	-1.7521186	0.03	0.112	1.0208E-14	Blck6_TAL
Akr1b8	3.7558E-14	3.40682986	0.108	0.014	8.9084E-10	Stpg2	5.4178E-19	-1.22299266	0.126	0.263	1.285E-14	Blck6_TAL
Gm10076	4.964E-14	1.5805444	0.223	0.096	1.1774E-09	Pink1	5.455E-19	-1.18253298	0.119	0.254	1.2939E-14	Blck6_TAL
Tubb2a	5.969E-14	1.52106934	0.234	0.106	1.4158E-09	Isoa2a	5.7259E-19	-1.07394747	0.175	0.323	1.3581E-14	Blck6_TAL
Il13ra1	6.9437E-14	1.10575943	0.38	0.247	1.647E-09	Gcdh	8.2096E-19	-1.16866949	0.089	0.213	1.9472E-14	Blck6_TAL
Ucp2	6.957E-14	1.8016933	0.186	0.067	1.6501E-09	Hmgcr	8.2245E-19	-1.06879688	0.115	0.251	1.9508E-14	Blck6_TAL
Ifit1	7.2925E-14	2.52856405	0.131	0.029	1.7297E-09	Isoa2b	8.5024E-19	-1.54978082	0.046	0.141	2.0167E-14	Blck6_TAL
Ier3	7.736E-14	1.12537892	0.36	0.217	1.8349E-09	4930480K23R1	1.1808E-18	-1.23046013	0.073	0.187	2.8008E-14	Blck6_TAL
Gna12	8.01E-14	1.32625873	0.296	0.164	1.8999E-09	Gm45846	1.2254E-18	-1.82101573	0.025	0.101	2.9066E-14	Blck6_TAL
Arrdc4	9.3907E-14	1.77228247	0.176	0.06	2.2274E-09	Syng1	1.6192E-18	-1.05758203	0.097	0.224	3.8406E-14	Blck6_TAL
Krt18	9.5451E-14	2.7426406	0.123	0.025	2.264E-09	Fbxl7	1.8836E-18	-1.06620701	0.383	0.544	4.676E-14	Blck6_TAL
Lrrk1	9.6486E-14	1.17901512	0.317	0.178	2.2885E-09	Rragd	2.1194E-18	-1.21605616	0.119	0.251	5.027E-14	Blck6_TAL
Eda	1.8879E-13	1.35025836	0.23	0.101	4.478E-09	Gm47438	2.1721E-18	-1.57748235	0.056			

Jpt1	4.6346E-12	1.91484518	0.149	0.049	1.0993E-07	Xylb	5.1628E-15	-1.61770946	0.039	0.116	1.2246E-10	Blck6_TAL
Gm26542	4.8263E-12	1.03294565	0.352	0.222	1.1447E-07	Igfbp5	5.2802E-15	-1.16006396	0.058	0.15	1.2524E-10	Blck6_TAL
Btg3	4.8754E-12	1.44098273	0.214	0.098	1.1564E-07	Sfxm4	6.8432E-15	-1.10065401	0.091	0.199	1.6231E-10	Blck6_TAL
Csf1	4.9418E-12	2.48743593	0.113	0.025	1.1721E-07	Slc17a1	6.856E-15	-1.12509812	0.065	0.161	1.6262E-10	Blck6_TAL
Tgfr1	5.8077E-12	1.52094071	0.168	0.061	1.3775E-07	Ccdc107	7.4248E-15	-1.01935712	0.127	0.25	1.7611E-10	Blck6_TAL
Spats2l	6.2053E-12	1.94988326	0.148	0.049	1.4718E-07	B230369F24Rl	7.9192E-15	-1.44948713	0.048	0.132	1.8784E-10	Blck6_TAL
Zwint	6.5288E-12	1.00891463	0.335	0.208	1.5486E-07	Dnajc6	1.6962E-14	-1.67693811	0.032	0.103	4.0232E-10	Blck6_TAL
Slc34a2	8.3264E-12	2.05747942	0.156	0.057	1.9749E-07	Ccdc189	1.954E-14	-1.4577927	0.034	0.106	4.6346E-10	Blck6_TAL
Msrb1	8.6317E-12	1.22811402	0.245	0.126	2.0474E-07	Dhtkd2	2.5433E-14	-1.36538269	0.053	0.138	6.0325E-10	Blck6_TAL
Aen	8.7842E-12	2.18867184	0.119	0.029	2.0835E-07	Abcg2	2.6099E-14	-1.18383507	0.064	0.156	6.1904E-10	Blck6_TAL
Ptk7	9.5683E-12	1.13084955	0.23	0.109	2.2695E-07	Sfrp1	2.9633E-14	-1.95950132	0.136	0.247	7.0288E-10	Blck6_TAL
B4gal1	1.024E-11	1.00982042	0.323	0.196	2.4288E-07	Ilgae	3.1261E-14	-1.36571019	0.052	0.136	7.4147E-10	Blck6_TAL
Gm26669	1.3003E-11	1.72174929	0.187	0.081	3.0842E-07	Fads1	3.3637E-14	-1.32472444	0.039	0.115	7.9784E-10	Blck6_TAL
Bcl3	1.8505E-11	1.75764299	0.15	0.052	4.3891E-07	5430402O13R	4.56E-14	-1.04520906	0.106	0.216	1.0816E-09	Blck6_TAL
Eif1a	1.9352E-11	1.17857389	0.255	0.135	4.5902E-07	Cadm2	5.488E-14	-1.21460568	0.119	0.227	1.3017E-09	Blck6_TAL
Rnf145	2.0228E-11	1.24325585	0.255	0.138	4.798E-07	Ush1c	1.0764E-13	-1.15560871	0.115	0.224	2.553E-09	Blck6_TAL
Rhoc	2.3342E-11	1.90096766	0.13	0.038	5.5365E-07	Zfp711	1.0905E-13	-1.01381097	0.084	0.184	2.5865E-09	Blck6_TAL
Cadps2	2.3738E-11	1.02555335	0.436	0.314	5.6305E-07	Zfpd1	1.2306E-13	-1.06433549	0.12	0.23	2.9189E-09	Blck6_TAL
Arpc5	3.0968E-11	1.03078534	0.318	0.196	7.3453E-07	Cdcd68	1.3962E-13	-1.73183303	0.034	0.103	3.3116E-09	Blck6_TAL
Tpm4	3.3649E-11	1.37659429	0.213	0.104	7.9813E-07	Tmem8	1.476E-13	-1.17523991	0.066	0.156	3.501E-09	Blck6_TAL
Uchl3	4.3745E-11	1.02381477	0.311	0.19	1.0376E-06	Fstl3	2.3689E-13	-1.41428849	0.046	0.123	5.6189E-09	Blck6_TAL
Ywhah	4.5583E-11	1.38341368	0.229	0.119	1.0812E-06	Dcxr	3.1097E-13	-1.30284564	0.04	0.113	7.3758E-09	Blck6_TAL
Desi1	4.8926E-11	1.25035245	0.232	0.119	1.1605E-06	Asb9	3.4698E-13	-1.56951217	0.046	0.121	8.23E-09	Blck6_TAL
Irga3	5.7658E-11	1.25585258	0.239	0.127	1.3676E-06	Gm27201	5.4796E-13	-1.49150917	0.038	0.107	1.2997E-08	Blck6_TAL
Galnt3	6.4409E-11	2.04601693	0.124	0.037	1.5277E-06	Gm4221	9.0441E-13	-1.4894148	0.042	0.115	2.1452E-08	Blck6_TAL
Ftl1-ps1	6.8455E-11	1.5340477	0.225	0.121	1.6237E-06	Msrb2	9.9505E-13	-1.09853754	0.081	0.173	2.3602E-08	Blck6_TAL
Gm26632	7.0348E-11	1.07456084	0.367	0.254	1.6686E-06	Id4	1.3838E-12	-1.07972257	0.07	0.158	3.2823E-08	Blck6_TAL
Mitd1	7.2798E-11	1.09706726	0.243	0.127	1.7267E-06	Lymr7	1.5428E-12	-1.10059634	0.053	0.132	3.6593E-08	Blck6_TAL
Jpt2	7.7743E-11	1.32955159	0.217	0.109	1.844E-06	Lama1	1.586E-12	-1.4249743	0.116	0.219	3.7617E-08	Blck6_TAL
Rbl1	1.1241E-10	1.36592798	0.177	0.075	2.6661E-06	Dhrs11	1.5967E-12	-1.00759119	0.107	0.208	3.7872E-08	Blck6_TAL
Eif6	1.2584E-10	1.70244147	0.163	0.067	2.9849E-06	Dclk2	1.9033E-12	-1.04162121	0.082	0.175	4.5144E-08	Blck6_TAL
Camkk2	1.5928E-10	1.54937768	0.172	0.074	3.7779E-06	Gm26606	2.1344E-12	-1.06844214	0.085	0.179	5.0627E-08	Blck6_TAL
Actn1	1.6251E-10	1.31356669	0.222	0.115	3.8545E-06	Pfkam	2.371E-12	-1.10659307	0.083	0.175	5.6237E-08	Blck6_TAL
Irga5	1.7026E-10	1.03664064	0.695	0.655	4.0385E-06	Cideb	2.5499E-12	-1.32840802	0.037	0.104	6.048E-08	Blck6_TAL
Sult1d1	1.739E-10	1.01573959	0.451	0.371	4.1248E-06	Slc1a1	4.8031E-12	-1.07785662	0.113	0.214	1.1392E-07	Blck6_TAL
Pasma5	1.8189E-10	1.27850177	0.232	0.124	4.3144E-06	Irs2	5.5235E-12	-1.05044163	0.086	0.176	1.3101E-07	Blck6_TAL
Kbtbd11	2.1366E-10	1.63411289	0.14	0.049	5.0677E-06	Arrb1	6.7993E-12	-1.06692978	0.09	0.184	1.6127E-07	Blck6_TAL
Chrnbl	2.5043E-10	1.57809424	0.143	0.052	5.94E-06	Asl	7.09E-12	-1.02123708	0.081	0.172	1.6817E-07	Blck6_TAL
Npc2	2.8756E-10	1.09071675	0.296	0.188	6.8207E-06	Abhd3	8.4377E-12	-1.3057471	0.059	0.136	2.0013E-07	Blck6_TAL
Lrrc4	4.2165E-10	1.00522926	0.369	0.262	1.0001E-05	Gm46102	1.1043E-11	-1.31279253	0.058	0.135	2.6193E-07	Blck6_TAL
Efh2	4.3618E-10	1.66796158	0.148	0.058	1.0346E-05	Ifit1bl2	1.1648E-11	-1.32827417	0.045	0.115	2.7629E-07	Blck6_TAL
Lgals8	4.6979E-10	1.05316966	0.282	0.173	1.1143E-05	Upb1	1.287E-11	-1.26047193	0.042	0.11	3.0526E-07	Blck6_TAL
Plekha2	5.4803E-10	1.42252029	0.185	0.087	1.2999E-05	Fam228a	2.7299E-11	-1.28552428	0.048	0.118	6.475E-07	Blck6_TAL
Egr1	5.6415E-10	2.23079163	0.128	0.044	1.3381E-05	Aldoc	4.3406E-11	-1.37155861	0.039	0.103	1.0295E-06	Blck6_TAL
Gm11099	6.9906E-10	1.43769144	0.223	0.121	1.6581E-05	Hs3st3b1	5.8221E-11	-1.14760698	0.054	0.126	1.3809E-06	Blck6_TAL
Parp11	7.9965E-10	1.33280456	0.179	0.081	1.8967E-05	Pxmp2	6.0858E-11	-1.08725805	0.054	0.127	1.4435E-06	Blck6_TAL
D430041D05f	8.1621E-10	2.49128967	0.105	0.029	1.936E-05	Bdh2	7.0614E-11	-1.20460033	0.041	0.106	1.6749E-06	Blck6_TAL
Hprt	9.407E-10	1.03639039	0.277	0.168	2.2313E-05	Gm6999	7.795E-11	-1.32481557	0.052	0.123	1.8489E-06	Blck6_TAL
Hnf4g	1.0302E-09	1.96904417	0.123	0.041	2.4436E-05	Lonrf1	1.0203E-10	-1.07731627	0.054	0.126	2.4201E-06	Blck6_TAL
H2afz	1.0967E-09	1.12451755	0.279	0.176	2.6012E-05	Gm31793	1.0891E-10	-1.29153536	0.05	0.118	2.5833E-06	Blck6_TAL
Prune2	1.3209E-09	1.79249636	0.114	0.035	3.133E-05	Slc35f2	1.1207E-10	-1.15559523	0.058	0.13	2.6583E-06	Blck6_TAL
Bmyc	1.4771E-09	2.11248806	0.109	0.032	3.5036E-05	Rsad1	1.9292E-10	-1.03309046	0.07	0.147	4.576E-06	Blck6_TAL
Far1os	1.8211E-09	1.36178899	0.189	0.093	4.3195E-05	Tkfc	1.9532E-10	-1.10584047	0.052	0.121	4.6328E-06	Blck6_TAL
Crybg1	2.7547E-09	1.45580999	0.158	0.069	6.534E-05	Zfp808	2.7012E-10	-1.0284796	0.092	0.178	6.407E-06	Blck6_TAL
Mtss1l	2.9533E-09	2.00743572	0.119	0.041	7.005E-05	Pld1	3.5043E-10	-1.07915646	0.072	0.149	8.3119E-06	Blck6_TAL
Sfn	3.1248E-09	1.72384353	0.114	0.037	7.4117E-05	Id5	4.4763E-10	-1.02816208	0.062	0.135	1.0617E-05	Blck6_TAL
Arhgef5	3.1726E-09	1.02171675	0.255	0.15	7.525E-05	Rufy4	5.1377E-10	-1.27943219	0.054	0.121	1.2186E-05	Blck6_TAL
Ppa1	4.0445E-09	1.37668183	0.172	0.081	9.593E-05	Ctsf	7.9428E-10	-1.11876006	0.055	0.123	1.884E-05	Blck6_TAL
Vasp	4.123E-09	1.25622442	0.197	0.103	9.7793E-05	Kirrel3	9.4378E-10	-1.57585603	0.062	0.13	2.2385E-05	Blck6_TAL
Gm40271	4.6988E-09	1.30750275	0.223	0.127	0.00011145	Scg5	1.4867E-09	-1.05555915	0.069	0.142	3.5264E-05	Blck6_TAL
Tubb4b	4.7754E-09	1.04402742	0.229	0.129	0.00011327	Frnk3	1.6108E-09	-1.12779416	0.042	0.103	3.8206E-05	Blck6_TAL
E2f3	5.0891E-09	1.0703571	0.243	0.142	0.00012071	4732491K20Rl	1.8133E-09	-1.149693	0.048	0.11	4.301E-05	Blck6_TAL
Bak1	5.5273E-09	1.61243142	0.146	0.063	0.0001311	Oxsm	2.3896E-09	-1.30560376	0.049	0.11	5.6679E-05	Blck6_TAL
Ptger4	6.1423E-09	1.77569591	0.133	0.054	0.00014569	Atp10b	2.5787E-09	-1.06845908	0.044	0.104	6.1164E-05	Blck6_TAL
Zyx	6.7158E-09	1.9813412	0.112	0.038	0.00015929	Tmie	2.5846E-09	-1.02609833	0.072	0.145	6.1305E-05	Blck6_TAL
Prdx4	7.8233E-09	1.59027524	0.136	0.055	0.00018556	Thsd4	2.7675E-09	-1.33003774	0.24	0.329	6.5642E-05	Blck6_TAL
Ankr4d6	8.1092E-09	1.2146746	0.17	0.08	0.00019234	Srl	5.3482E-09	-1.09969615	0.069	0.139	0.00012685	Blck6_TAL
Ctndd2	1.0124E-08	2.38330107	0.129	0.052	0.00024013	Gm13844	6.5936E-09	-1.09683059	0.062	0.129	0.00015639	Blck6_TAL
Ppp4r4	1.2397E-08	1.05310561	0.183	0.09	0.00029405	Fgfr4	1.5975E-08	-1.09855201	0.054	0.115	0.00037892	Blck6_TAL
Dgkh	1.2946E-08	1.73380173	0.122	0.046	0.00030707	Fam71e1	1.6103E-08	-1.01673112	0.05	0.11	0.00038196	Blck6_TAL
Gm15860	1.3182E-08	1.48471673	0.268	0.178	0.00031267	Cyp4a31	4.3908E-08	-1.17496571	0.047	0.103	0.00104145	Blck6_TAL
Rhobtb3	1.3756E-08	1.75486873	0.113	0.04	0.00032629	Trmt10a	1.1169E-07	-1.02433316	0.079	0.145	0.00264911	Blck6_TAL
Mapk13	1.5681E-08	1.43674861	0.129	0.051	0.00037194	Kcnc3	2.2875E-07	-1.09928763	0.055	0.11	0.00542562	Blck6_TAL
Tes	1.6526E-08	1.42756171	0.154	0.07	0.00039197	Map3k15	5.5502E-07	-1.08808839	0.05	0.101	0.01316459	Blck6_TAL
Nek11	1.6842E-08	1.32310683	0.136	0.055	0.00039949	Zfp972	8.7262E-07	-1.040178	0.056	0.109	0.0206976	Blck6_TAL
Tcirg1	1.8221E-08	1.14638425	0.22	0.126	0.00043218							
Eif3	2.0094E-08	1.62694944	0.148	0.067	0.00047662							
Misp	2.0295E-08	1.29197234	0.184	0.098	0.00048139							

Fam19a5	6.7975E-07	1.2460591	0.144	0.072	0.0161231
Gm31683	7.1358E-07	1.67347702	0.105	0.043	0.01692533
Slc37a1	8.0061E-07	1.13618307	0.141	0.069	0.01898956
Rnd3	9.5902E-07	1.07281097	0.205	0.126	0.0227471
Zfp36	1.0053E-06	1.38290549	0.135	0.066	0.02384397
Slx4	1.0275E-06	1.12077727	0.153	0.08	0.02437233
Gm8186	1.1716E-06	1.13838361	0.165	0.092	0.02778907
B4galnt1	1.2942E-06	1.11888971	0.152	0.08	0.03069664
Col4a1	1.3008E-06	1.11807274	0.228	0.15	0.03085303
Psmg4	1.5735E-06	1.43507533	0.115	0.052	0.03732191
Relb	1.9423E-06	1.18931496	0.14	0.072	0.04607024
Prkd2	2.1032E-06	1.03295359	0.149	0.078	0.04988561

Table S2: Results from differential gene expression TCMR vs. Control

Thick ascending limbs

*This Fold Change was calculated between [BALB/c to C57BL/6] and [BALB/c to BALB/c]

Gene upr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj	Gene downr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj
Ilgp1	0	10.9578637	0.91	0.003	0	Gm26870	3.462E-226	-4.38661296	0.037	0.54	8.211E-222
Cd74	0	5.87083996	0.91	0.076	0	Egf	1.451E-153	-2.22256646	0.636	0.903	3.442E-149
B2m	0	5.48505127	0.993	0.165	0	Plekha6	1.213E-144	-1.18916629	0.708	0.935	2.878E-140
H2-K1	0	5.38062743	0.992	0.178	0	Gm44002	2.168E-136	-1.60841149	0.453	0.807	5.143E-132
H2-D1	0	4.81531833	0.995	0.24	0	Tef	2.213E-127	-1.82065852	0.218	0.626	5.249E-123
Stat1	0	5.63814144	0.833	0.08	0	Ryr2	7.995E-124	-3.40719253	0.097	0.446	1.896E-119
Irgm1	0	5.59975162	0.727	0.043	0	Gm26804	5.959E-105	-1.11702058	0.756	0.916	1.413E-100
Gbp2b	0	7.33322358	0.671	0.012	0	Gm42697	1.813E-104	-2.87685616	0.082	0.397	4.299E-100
H2-Ab1	0	6.17575644	0.669	0.02	0	Stxbp4	7.266E-101	-1.10102045	0.675	0.87	1.7234E-96
Tmsb4x	0	3.39439173	0.909	0.316	0	Kcnt1	3.1132E-92	-1.87187222	0.17	0.503	7.3841E-88
Ly6a	0	2.82149328	0.971	0.454	0	Lrrcc6	3.9298E-92	-1.55754364	0.287	0.622	9.3211E-88
Spp1	0	2.6957266	1	0.908	0	Dusp15	2.2989E-85	-2.38795599	0.093	0.375	5.4529E-81
Psmb8	1.779E-304	7.22761787	0.636	0.01	4.219E-300	Gm46124	1.9884E-83	-1.96599447	0.176	0.482	4.7162E-79
Ly6e	1.002E-299	4.74037776	0.689	0.068	2.376E-295	9030025P20Ri	7.2802E-78	-1.61038418	0.247	0.549	1.7268E-73
H2-Eb1	6.937E-279	5.89207372	0.614	0.021	1.645E-274	Gm19461	4.7845E-77	-1.49373905	0.24	0.552	1.1348E-72
H2-Aa	2.188E-264	5.67871461	0.595	0.025	5.189E-260	Gm47708	8.3141E-77	-1.93668326	0.114	0.393	1.972E-72
Ubd	1.748E-261	9.53514585	0.559	0.002	4.145E-257	Egfl6	1.2754E-75	-1.35385058	0.324	0.626	3.025E-71
Irgm2	8.992E-251	6.18696025	0.568	0.021	2.133E-246	Slc34a1	1.2719E-74	-1.53638701	0.176	0.485	3.0169E-70
H2-T23	1.744E-229	5.43887512	0.539	0.025	4.137E-225	Dnah11	6.0874E-72	-1.71836169	0.2	0.488	1.4439E-67
Gbp7	7.065E-222	5.62069756	0.527	0.024	1.676E-217	Gm2115	1.2842E-71	-2.60684636	0.083	0.329	3.046E-67
Tap1	5.96E-200	5.96846853	0.474	0.014	1.414E-195	Npy	1.9207E-70	-2.60222522	0.085	0.328	4.5558E-66
Actb	7.646E-200	1.83068384	0.889	0.558	1.814E-195	Nr1d2	5.5628E-70	-1.11114381	0.359	0.664	1.3194E-65
Tnfrsf10	3.158E-199	2.26328212	0.795	0.423	7.49E-195	Wfdc15b	8.9499E-70	-1.15632155	0.508	0.765	2.1228E-65
Nlr-c	1.099E-197	4.45094048	0.515	0.046	2.607E-193	Gm17276	1.3506E-68	-1.08167404	0.513	0.753	3.2035E-64
Pigr	4.869E-197	3.33181568	0.594	0.109	1.155E-192	Gm26892	1.3444E-63	-1.48413597	0.174	0.446	3.1888E-59
H2-Q4	8.528E-190	5.62865455	0.459	0.016	2.023E-185	Gm44588	3.1714E-63	-1.65082936	0.274	0.533	7.5221E-59
Psmb9	1.256E-189	6.21408402	0.451	0.011	2.98E-185	1110019822Ri	1.9669E-62	-2.11713184	0.072	0.294	4.6654E-58
Gm16685	4.349E-189	2.3213382	0.75	0.318	1.032E-184	Snap91	4.5885E-62	-1.80217093	0.145	0.401	1.0883E-57
Bst2	7.444E-189	3.77065746	0.536	0.073	1.766E-184	Gm36388	1.9819E-57	-1.3001146	0.411	0.66	4.7008E-53
Olfr56	1.47E-183	6.85453746	0.438	0.011	3.488E-179	Filip1l	1.5415E-56	-1.02521506	0.523	0.738	3.6562E-52
Parp14	5.823E-180	5.31711206	0.457	0.027	1.381E-175	Raly1	2.0823E-56	-1.44663267	0.245	0.495	4.9391E-52
Fth1	9.453E-179	1.13369985	0.988	0.855	2.242E-174	Fam196a	7.5002E-56	-1.35978037	0.248	0.508	1.779E-51
Tap2	8.489E-173	3.79547482	0.495	0.059	2.013E-168	4732465J04Rii	4.3604E-55	-1.14460895	0.318	0.581	1.0342E-50
Ifitm3	2.311E-171	4.43273899	0.458	0.035	5.481E-167	Pdzrn4	1.2681E-51	-1.71366435	0.113	0.327	3.0078E-47
Gbp2	3.271E-168	9.73030118	0.393	0.001	7.758E-164	Gm47719	2.5281E-51	-2.38406559	0.042	0.216	5.9965E-47
Irf1	6.39E-168	4.56177049	0.468	0.05	1.516E-163	Cntd1	4.0524E-51	-1.6382517	0.104	0.317	9.6119E-47
Tapbp	2.355E-167	2.56177464	0.636	0.209	5.586E-163	Pdgfc	1.3164E-50	-1.16856386	0.293	0.544	3.1225E-46
Tmem176a	2.838E-158	1.67884159	0.826	0.513	6.731E-154	Natbfl	3.2607E-50	-1.68991433	0.077	0.278	7.734E-46
AW112010	3.591E-152	8.12627831	0.364	0.003	8.517E-148	Gm49272	3.3209E-50	-1.16822124	0.191	0.44	7.8769E-46
Gm4951	4.287E-144	7.98307947	0.35	0.004	1.017E-139	Gm45261	1.383E-49	-1.1045734	0.421	0.653	3.2804E-45
Oas2	8.086E-141	6.06104221	0.353	0.008	1.918E-136	Miox	1.4018E-49	-1.11634196	0.156	0.405	3.325E-45
Naaladl2	4.925E-140	1.88446044	0.746	0.404	1.168E-135	Usp2	1.7823E-49	-1.14754215	0.211	0.465	4.2273E-45
Tmem176b	6.165E-139	1.5711978	0.786	0.51	1.462E-134	Gm33543	7.4893E-49	-2.38584032	0.038	0.202	1.7764E-44
Cd52	9.301E-135	5.81625565	0.347	0.012	2.206E-130	Kcnn2	2.4638E-48	-1.05118792	0.316	0.56	5.8439E-44
Cd274	2.918E-130	5.01620642	0.372	0.033	6.92E-126	Tsga10	2.8438E-48	-1.5023935	0.155	0.377	6.7451E-44
H2-T22	5.495E-130	3.88439698	0.394	0.045	1.303E-125	Dbp	3.8791E-48	-1.78375045	0.069	0.256	9.2009E-44
Tmsb10	3.117E-126	3.80609846	0.388	0.046	7.393E-122	Notch3	5.8454E-48	-1.54542258	0.11	0.32	1.3865E-43
Lcn2	1.61E-123	4.05754584	0.367	0.035	3.819E-119	Gm36975	7.6332E-48	-1.382746	0.219	0.451	1.8105E-43
Stat2	4.003E-123	2.99027325	0.469	0.112	9.495E-119	Ckb	9.9868E-48	-1.04160665	0.451	0.681	2.3688E-43
Gm26917	4.778E-119	1.20004558	0.858	0.736	1.133E-114	Tbxas1	1.6601E-47	-1.52800094	0.164	0.387	9.3975E-43
Gbp3	5.004E-119	6.03408349	0.305	0.006	1.187E-114	Mapk15	8.0622E-47	-1.17563587	0.184	0.417	1.9123E-42
Eef1a1	2.77E-118	1.02150782	0.932	0.807	6.571E-114	Ano4	1.137E-46	-1.28508994	0.362	0.578	2.6969E-42
Cxcl10	8.446E-118	6.4982875	0.3	0.005	2.003E-113	Dnase1	3.4808E-46	-3.22928067	0.016	0.152	8.2562E-42
Rps20	7.802E-115	1.30396471	0.802	0.545	1.85E-110	Ybx2	3.2426E-45	-2.03789907	0.055	0.226	7.6912E-41
Tpt1	4.144E-113	1.05860307	0.895	0.703	9.83E-109	Adhfe1	4.6643E-45	-1.22911191	0.188	0.414	1.1063E-40
Rplp1	1.109E-110	1.339673	0.784	0.494	2.63E-106	Gm15640	3.1271E-43	-1.65715146	0.103	0.292	7.4171E-39
Rnf213	1.402E-109	2.33661595	0.555	0.224	3.326E-105	Prox1	4.0482E-43	-1.09106677	0.368	0.579	9.6019E-39
Psmb10	5.218E-109	4.37795821	0.32	0.026	1.238E-104	Al838599	5.7234E-43	-1.20638373	0.251	0.476	1.375E-38
H2-Q7	8.648E-109	7.41324588	0.274	0.003	2.051E-104	Mgil	1.9284E-42	-1.33599795	0.111	0.305	4.574E-38
F830016B08R	4.142E-106	8.00595478	0.267	0.002	9.824E-102	Gm48321	3.1544E-42	-1.38211612	0.141	0.346	7.482E-38
Adamts1	3.703E-103	4.05330257	0.347	0.051	8.782E-99	Prkd1	4.2676E-42	-1.25936025	0.573	0.75	1.0122E-37
Ly2	7.838E-102	4.8301915	0.288	0.016	1.8591E-97	Myo3a	5.0603E-42	-1.53648239	0.109	0.3	1.2003E-37
S100a11	4.2535E-94	1.63809876	0.626	0.332	1.0089E-89	Abca2	3.4481E-40	-1.0431702	0.211	0.435	8.1785E-36
Rpsa	4.3669E-94	1.27154964	0.747	0.48	1.0358E-89	Robo3	1.144E-39	-3.50381927	0.013	0.129	2.7135E-35
Gm10073	4.714E-93	1.28218199	0.757	0.506	1.1181E-88	Fgf9	1.2788E-39	-1.29502356	0.234	0.447	3.0331E-35
Rpl32	1.0492E-92	1.19009565	0.774	0.517	2.4886E-88	6330410L21Ri	2.0157E-39	-1.90048908	0.05	0.202	4.7811E-35
Gm12216	1.2678E-92	2.36726239	0.431	0.122	3.0072E-88	AC153364.1	3.0959E-38	-1.08256698	0.237	0.453	7.3432E-34
Ccl5	1.0048E-91	5.92524067	0.244	0.006	2.3832E-87	Gm45650	1.5077E-37	-2.57480834	0.027	0.152	3.5762E-33
Herc6	8.0987E-89	2.76270505	0.41	0.122	1.9209E-84	Gm31224	2.534E-37	-1.33413816	0.183	0.379	6.0103E-33
Gm4841	5.6891E-87	9.24763463	0.221	0.001	1.3494E-82	Gm42650	3.637E-37	-2.90734987	0.023	0.142	8.6267E-33
Parp9	9.0016E-85	2.6690914	0.386	0.106	2.1351E-80	Mecomas	1.9727E-36	-1.15854574	0.182	0.382	4.679E-32
Gm12185	1.5233E-83	5.6924354	0.226	0.006	3.6132E-79	Ttr	2.6439E-36	-3.53624464	0.006	0.104	6.271E-32
Ddx58	5.0987E-83	2.5220682	0.37	0.094	1.2094E-78	Mef2c	2.8709E-36	-1.16501094	0.184	0.378	6.8094E-32
Nuak2	8.9739E-83	1.55103558	0.684	0.43	2.1285E-78	0610005C13Ri	5.9102E-36	-1.13294157	0.127	0.312	1.4018E-31
Rpl27a	1.2487E-79	1.35845911	0.662	0.415	2.9618E-75	Per2	1.0471E-35	-1.26312321	0.119	0.296	2.4836E-31
Rps19	5.7019E-79	1.2759396	0.664	0.403	1.3524E-74	Gm49380	1.1559E-35	-1.31420567	0.1	0.273	2.7417E-31
Tgtp2	6.9855E-79	9.73373538	0.201	0	1.6569E-74	Gm26776	3.3159E-35	-2.39216489	0.04	0.171	7.865E-31
Serping1	7.7499E-78	5.24803569	0.218	0.009	1.8382E-73	Gcgr	9.0936E-35	-1.19797453	0.188	0.379	2.1569E-30
Stat3	2.1099E-77	1.14379621	0.741	0.533	5.0045E-73	Gatm	1.7231E-34	-1.44581896	0.076	0.233	4.0871E-30
C3	2.3958E-77	4.19873426	0.238	0.019	5.6827E-73	Pantr1	8.9519E-34	-1.06502067	0.178	0.37	2.1233E-29
Napsa	3.788E-77	1.05936502	0.779	0.553	8.9846E-73	Klhl3	9.3261E-34	-1.10272051	0.184	0.375	2.2121E-29
Rps27rt	4.065E-77	1.13558096	0.73	0.487	9.6						

Akt3	8.1056E-65	1.97630318	0.412	0.16	1.9226E-60	A330032B11R	1.8501E-30	-1.26231918	0.134	0.296	4.3884E-26
H2-Q6	9.7403E-65	6.03970703	0.176	0.004	2.3103E-60	Gm16000	1.8996E-30	-2.0683074	0.035	0.149	4.5055E-26
Nrg1	1.2986E-64	1.13147848	0.763	0.586	3.0801E-60	Ces1d	2.8531E-30	-2.85622551	0.013	0.105	6.7673E-26
Xaf1	1.0029E-63	4.11262046	0.197	0.014	2.3788E-59	Rtl4	1.1246E-29	-2.30545871	0.062	0.189	2.6675E-25
Dcdc2a	2.7313E-63	2.89206454	0.312	0.087	6.4783E-59	Dhx34	2.4204E-29	-1.1954532	0.119	0.276	5.7409E-25
Clec2d	3.0055E-63	1.21860247	0.706	0.559	7.1286E-59	Mklin1os	4.4518E-29	-1.09917906	0.144	0.311	1.0559E-24
Pla2g16	3.1655E-63	3.23145834	0.244	0.04	7.5083E-59	Acas1b	4.8876E-29	-1.88569795	0.035	0.147	1.1593E-24
Nmi	4.8088E-62	2.44362675	0.325	0.099	1.1406E-57	Fam81a	8.5472E-28	-1.05918913	0.148	0.31	2.0273E-23
Gm6034	4.3461E-61	3.82971146	0.202	0.02	1.0309E-56	Gm13546	9.8108E-28	-1.9704849	0.038	0.147	2.327E-23
Rtp4	6.9209E-61	4.23794432	0.188	0.013	1.6416E-56	Slc8a1	2.1582E-27	-1.14316926	0.069	0.2	5.119E-23
Nfkbi2	5.3494E-59	1.99540271	0.439	0.218	1.2688E-54	Gm28410	2.4845E-27	-1.86154647	0.04	0.15	5.893E-23
Rpl9-ps6	2.4132E-57	1.00479744	0.713	0.521	5.7239E-53	Atp6v1c2	5.8696E-27	-1.37493836	0.105	0.245	1.3922E-22
Irf7	6.9486E-57	5.44515539	0.16	0.005	1.6481E-52	Ipce1	8.9502E-27	-1.30242497	0.141	0.291	2.1229E-22
Rps27a	2.0126E-56	1.11134638	0.661	0.464	4.7737E-52	Igf1	1.0319E-26	-1.79241423	0.047	0.159	2.4477E-22
Rps23	8.4869E-56	1.14772197	0.63	0.427	2.013E-51	Afm	1.6536E-26	-1.68211916	0.051	0.166	3.9221E-22
C1qb	1.7602E-55	5.94744683	0.155	0.004	4.175E-51	Rdh16f2	3.0521E-26	-1.27349899	0.054	0.173	7.2394E-22
S100a10	2.1181E-55	1.9672792	0.371	0.15	5.024E-51	Pah	7.7784E-26	-1.06540965	0.143	0.298	1.845E-21
Atp11a	2.2541E-54	1.34457055	0.603	0.424	5.3464E-50	Slc47a1	1.2754E-25	-1.20736404	0.087	0.221	3.0251E-21
Ifi4l1	3.2691E-54	5.29828713	0.151	0.004	7.754E-50	Slc22a8	1.4143E-25	-1.84210452	0.023	0.114	3.3546E-21
Rasgrp1	4.9401E-54	1.47271692	0.536	0.329	1.1717E-49	Gm15638	2.2759E-25	-1.52877336	0.059	0.174	5.3982E-21
Rpl27-ps3	5.5175E-54	1.03316316	0.66	0.445	1.3087E-49	Gm17359	2.3952E-25	-1.36219733	0.097	0.231	5.6811E-21
Samhd1	5.9315E-54	2.11527159	0.374	0.156	1.4069E-49	Rorc	3.0762E-25	-1.06078295	0.129	0.276	7.2963E-21
Casp12	6.2646E-54	5.21027215	0.154	0.006	1.4859E-49	Slc5a12	4.2281E-25	-2.01525364	0.026	0.119	1.0029E-20
Isg15	1.0379E-53	3.83029557	0.177	0.016	2.4619E-49	Mroh4	5.4192E-25	-2.18867216	0.021	0.109	1.2854E-20
Epsti1	4.6261E-53	2.2787196	0.285	0.083	1.0973E-48	Gm42962	1.6099E-24	-1.46838567	0.069	0.187	3.8185E-20
Parp10	2.6437E-52	2.18431953	0.301	0.097	6.2707E-48	Ggnb1p	1.7085E-24	-1.00359373	0.14	0.288	4.0523E-20
Psmc1	3.6189E-52	1.78690038	0.386	0.166	8.5836E-48	Iqcm	3.3559E-24	-2.55140382	0.02	0.104	7.9598E-20
Plac8	8.1607E-52	4.50469101	0.159	0.01	1.9356E-47	Gabrr2	1.2527E-23	-1.84004655	0.026	0.115	2.9712E-19
Mt1	8.8821E-52	1.01086536	0.742	0.585	2.1067E-47	4930517O19R	1.435E-23	-1.01266724	0.141	0.285	3.4036E-19
Rpl22	1.3037E-51	1.26888927	0.538	0.328	3.0922E-47	Ackr4	2.0603E-23	-1.26861083	0.113	0.245	4.8869E-19
C1qa	1.8188E-51	5.5081896	0.145	0.004	4.314E-47	Pck1	2.7453E-23	-1.02098325	0.089	0.221	6.5117E-19
Rpl18	1.8474E-51	1.04399585	0.657	0.482	4.3817E-47	Gm29266	2.9731E-23	-2.105021715	0.037	0.131	7.0518E-19
Gbp5	3.1507E-51	6.63397905	0.14	0.003	7.4732E-47	Ring1	4.8278E-23	-1.05077371	0.105	0.236	1.1451E-18
Rps4x	3.3674E-50	1.14125608	0.577	0.37	7.9871E-46	D430001F17Ri	3.3455E-22	-1.69557595	0.042	0.137	7.9352E-18
C4b	1.2068E-49	3.95155412	0.162	0.014	2.8625E-45	Hoxaas3	3.4891E-22	-1.0041978	0.129	0.265	8.2759E-18
Id2	3.2009E-49	1.31482992	0.585	0.416	7.5923E-45	1700085D007R	5.5694E-22	-1.45852489	0.062	0.169	1.321E-17
Erap1	3.6317E-49	1.94321564	0.314	0.112	8.6141E-45	1810062O18R	1.0622E-21	-1.25220371	0.09	0.208	2.5194E-17
Ndrg1	2.7633E-48	1.41958472	0.491	0.283	6.5542E-44	Stpg2	1.3985E-21	-1.36196318	0.063	0.169	3.317E-17
Pfn1	6.8044E-47	1.30702897	0.516	0.313	1.6139E-42	Pcx	3.0739E-21	-1.10062824	0.1	0.221	7.2911E-17
Tbx3l	1.1411E-46	3.78993237	0.162	0.018	2.7066E-42	C230037L18Ri	3.2E-21	-1.06280179	0.103	0.226	7.5902E-17
H2-DMa	1.7204E-46	4.03216255	0.148	0.011	4.0807E-42	Pex5l	3.9547E-21	-1.49321657	0.089	0.203	9.38E-17
Havcr1	1.0801E-45	3.66964899	0.159	0.018	2.5619E-41	Oprm1	5.7194E-21	-1.38463555	0.086	0.198	1.3566E-16
Hbb-bs	1.9643E-45	5.05017427	0.121	0.001	4.6592E-41	BB365896	7.3221E-21	-1.84380032	0.032	0.117	1.7367E-16
Lgals3	6.1679E-45	1.6463753	0.401	0.197	1.463E-40	Slc5a2	1.2482E-19	-1.23382144	0.042	0.131	2.9606E-15
Tspo	1.011E-44	1.30555516	0.467	0.259	2.3981E-40	Neu2	2.2198E-19	-1.10717548	0.099	0.213	5.2652E-15
Mt2	2.2756E-44	1.7996945	0.324	0.127	5.3974E-40	Mettl23	2.3554E-19	-1.0865725	0.111	0.229	5.5868E-15
Txn1	2.5846E-44	1.38571729	0.455	0.259	6.1304E-40	Prox1os	2.5404E-19	-1.27639038	0.074	0.178	6.0255E-15
Idnk	1.1266E-43	1.8401514	0.31	0.123	2.6722E-39	Gm43915	3.1274E-19	-1.11005463	0.094	0.206	7.418E-15
Lgals1	2.9836E-43	2.67520605	0.213	0.053	7.0768E-39	Cry2	3.1536E-19	-1.05497055	0.077	0.183	7.48E-15
Rpl17	3.0392E-43	1.07463763	0.57	0.39	7.2088E-39	Gm26816	3.3143E-19	-1.0167302	0.107	0.225	7.8613E-15
S100a6	3.5075E-43	1.87240377	0.362	0.165	8.3194E-39	Gm11713	4.9323E-19	-1.13085988	0.079	0.183	1.1699E-14
Rps5	3.8608E-43	1.1773354	0.52	0.336	9.1575E-39	Gm10848	5.0941E-19	-1.34591809	0.064	0.161	1.2083E-14
Ubc	7.0286E-43	1.03114903	0.617	0.449	1.6671E-38	AC161607.1	1.0437E-18	-1.03892018	0.103	0.215	2.4755E-14
Rpl39	1.6196E-42	1.38495478	0.441	0.242	3.8416E-38	B3galt2	1.6396E-18	-1.14047809	0.083	0.189	3.889E-14
Zbp1	2.5633E-42	6.77520206	0.113	0.001	6.0798E-38	E530011L22Ri	5.3707E-18	-1.07343341	0.088	0.194	1.2739E-13
Rpl4	3.896E-42	1.25359891	0.495	0.307	9.241E-38	3200001D21R	9.2368E-18	-1.41347152	0.04	0.122	2.1909E-13
Mpeg1	4.2201E-42	5.44020824	0.118	0.003	1.001E-37	Htr1b	9.7006E-18	-1.43148475	0.035	0.113	2.3009E-13
Ctss	6.9002E-42	4.88057314	0.126	0.007	1.6367E-37	Gm13844	1.0537E-17	-1.3314757	0.05	0.137	2.4992E-13
AU020206	2.5495E-41	7.04833672	0.111	0.001	6.047E-37	Itgae	4.8651E-17	-1.13335316	0.053	0.14	1.154E-12
Msn	2.4297E-39	1.11977554	0.525	0.345	5.7629E-35	Gm10635	9.108E-17	-1.68616572	0.032	0.105	2.1603E-12
Dysf	3.7846E-39	1.11979825	0.536	0.355	8.9766E-35	Il17rb	1.3113E-16	-1.52282742	0.036	0.111	3.1103E-12
Gdx60	8.1547E-39	4.23063027	0.127	0.011	1.9342E-34	Gm20721	1.6986E-16	-1.30176167	0.048	0.13	4.0288E-12
Bpb	1.1009E-38	5.19014569	0.113	0.004	2.6112E-34	Gm9968	1.7143E-16	-1.46980437	0.049	0.131	4.0662E-12
Upp1	2.1122E-38	2.41473639	0.188	0.044	5.0099E-34	C230088H06R	2.3563E-16	-1.11761937	0.081	0.176	5.5888E-12
Socs1	2.27E-38	5.80205839	0.109	0.003	5.3843E-34	Gm26613	2.5094E-16	-1.17960777	0.061	0.148	5.9521E-12
Vim	4.841E-38	4.22619481	0.124	0.01	1.1482E-33	Sytl16	2.8812E-16	-1.16128458	0.074	0.166	6.834E-12
Mgp	1.1465E-37	2.93539067	0.163	0.031	2.7193E-33	Gpx6	8.84E-16	-1.29726842	0.04	0.114	2.0968E-11
Tapbp1	1.16E-37	3.38168099	0.139	0.018	2.7515E-33	Gm34868	1.2464E-15	-1.20250625	0.076	0.166	2.9565E-11
Fbxw17	1.6512E-37	2.24063056	0.211	0.061	3.9164E-33	Pes1	1.6129E-15	-1.00373811	0.08	0.173	3.8257E-11
Tgm2	4.3334E-37	2.82857649	0.166	0.034	1.0278E-32	Wnk1	1.9297E-15	-1.25319388	0.718	0.826	4.5772E-11
Rpl29	5.3799E-37	4.01668299	0.122	0.011	1.276E-32	Tmem207	1.9647E-15	-1.48227412	0.276	0.358	4.6601E-11
Tubb5	1.3216E-36	2.19486647	0.218	0.067	3.1347E-32	4930533B01Ri	2.0893E-15	-1.35667514	0.05	0.128	4.9557E-11
Rack1	1.5972E-36	1.01240721	0.543	0.373	3.7884E-32	Gm42397	2.4148E-15	-1.77952049	0.039	0.111	5.7276E-11
Ifi27l2a	2.3876E-35	3.49909872	0.128	0.015	5.6633E-31	Gm33023	4.0679E-15	-1.43126172	0.04	0.113	9.6486E-11
Tyrobp	4.8394E-35	4.69564743	0.107	0.006	1.1479E-30	Emc9	4.8944E-15	-1.23003102	0.046	0.122	1.1609E-10
Clic1	1.1702E-34	1.1140075	0.488	0.318	2.7757E-30	Hsd17b14	8.9966E-15	-1.1120843	0.05	0.128	2.1339E-10
Adgrg3	2.182E-34	1.63495484	0.333	0.168	5.1754E-30	Gm14532	1.0861E-14	-1.17145381	0.045	0.119	2.5762E-10
Gm7030	2.3667E-33	3.70659819	0.113	0.011	5.6136E-29	Gm48287	1.5098E-14	-1.3502465	0.037	0.106	3.581E-10
Cyba	1.1771E-32	1.35114663	0.409	0.248	2.7919E-28	Bcas3os1	2.2639E-14	-1.09070094	0.07	0.154	5.3697E-10
Cd47	1.7221E-32	1.01701188	0.547	0.394	4.0847E-28	Gm45846	3.9707E-14	-1.34088368	0.067	0.147	9.4182E-10
Rpl18a	5.1295E-32	1.09467903	0.47	0.304	1.2167E-27	Kcnj13	5.6498E-14	-1.0634272	0.074	0.159	1.3401E-09
Ifih1	6.269E-32	2.34427096	0.158	0.036	1.48						

Ciita	7.3957E-27	3.07854733	0.105	0.015	1.7542E-22	Gm49003	1.411E-06	-1.08949812	0.095	0.147	0.03346757
Ppa1	2.0114E-26	1.87176061	0.192	0.07	4.7707E-22						
Serpnb9	5.2221E-26	2.65689246	0.116	0.022	1.2386E-21						
Irf9	6.1725E-26	1.57379074	0.219	0.09	1.4641E-21						
Gm44148	1.2957E-25	1.79703682	0.176	0.059	3.0732E-21						
Rps12-ps3	2.351E-25	1.22229564	0.355	0.211	5.5763E-21						
Mkl	1.6619E-24	2.70234838	0.108	0.02	3.942E-20						
Clic4	7.1568E-24	1.29825838	0.318	0.181	1.6975E-19						
Pomp	6.8341E-23	1.43189306	0.265	0.139	1.621E-18						
Jun	1.6218E-22	1.63356689	0.228	0.107	3.8467E-18						
Pea15a	1.9816E-22	1.18947865	0.356	0.222	4.7003E-18						
Pabpc1	4.6736E-22	1.0034887	0.395	0.265	1.1085E-17						
Fcer1g	5.3456E-22	2.68455611	0.105	0.023	1.2679E-17						
Guca2b	5.704E-22	1.431879	0.25	0.129	1.3529E-17						
Sipa1l1	7.7679E-22	1.19340252	0.336	0.206	1.8425E-17						
Arpc1b	1.1966E-21	1.67366713	0.17	0.064	2.8383E-17						
Cfl1	4.9147E-21	1.24445767	0.311	0.186	1.1657E-16						
Col18a1	5.9607E-21	1.0233208	0.392	0.266	1.4138E-16						
Kcnh1	7.3607E-21	2.33653332	0.137	0.045	1.7459E-16						
Mitd1	2.2666E-20	1.25765971	0.24	0.121	5.3762E-16						
Arntl	3.8414E-20	2.23416534	0.12	0.035	9.1113E-16						
Syt2	5.8429E-20	2.1347917	0.126	0.039	1.3859E-15						
Apoe	5.8642E-20	1.07744915	0.355	0.229	1.3909E-15						
Tuba1b	7.0114E-20	1.53277361	0.202	0.093	1.663E-15						
Tagln2	9.0691E-20	2.00753806	0.141	0.049	2.1511E-15						
Rnf19b	2.9898E-19	1.59978438	0.195	0.09	7.0915E-15						
Stxbp1	1.1551E-18	1.32081503	0.235	0.124	2.7398E-14						
Vwa5a	3.1025E-18	1.34889827	0.224	0.116	7.3587E-14						
Cxcl16	3.1069E-18	1.57711315	0.194	0.094	7.3693E-14						
Tinagl1	5.2391E-18	1.29878277	0.237	0.13	1.2427E-13						
Pycard	5.5121E-18	1.77828658	0.134	0.048	1.3074E-13						
Kank3	9.2221E-18	2.03125322	0.113	0.035	2.1874E-13						
Efh2	1.2774E-17	2.17157148	0.117	0.039	3.0298E-13						
Tubb2b	1.3361E-17	1.79300536	0.144	0.057	3.1691E-13						
Lap3	1.8293E-17	1.26335356	0.241	0.135	4.3389E-13						
Ctsl	3.3327E-17	1.35578306	0.303	0.195	7.9049E-13						
Atp6v0d2	4.9802E-17	1.159654	0.157	0.064	1.1812E-12						
Gm10076	2.2936E-16	1.29725052	0.226	0.126	5.4401E-12						
Tnfrsf12a	3.3957E-16	1.9075618	0.133	0.052	8.0543E-12						
Pma5	4.3974E-16	1.15972839	0.232	0.129	1.043E-11						
Zscan21	2.2903E-15	1.0487609	0.328	0.224	5.4323E-11						
Gnai2	3.8135E-15	1.18158215	0.237	0.138	9.0453E-11						
Aprt	4.4109E-15	1.37688899	0.188	0.098	1.0462E-10						
Arpc3	6.3037E-15	1.03812815	0.302	0.202	1.4952E-10						
Myl12a	7.2674E-15	1.08892603	0.289	0.189	1.7237E-10						
Arhgap8	1.0987E-14	1.4455919	0.151	0.068	2.6059E-10						
Hnf4g	2.0761E-14	1.80828424	0.135	0.058	4.9242E-10						
Tpm4	2.7829E-14	1.56593166	0.128	0.052	6.6009E-10						
Plekha2	3.2871E-14	1.4472341	0.149	0.068	7.7967E-10						
Cdh3	4.3538E-14	1.08007446	0.236	0.139	1.0327E-09						
Cenpj	5.7653E-14	1.58104099	0.113	0.043	1.3675E-09						
Csrp1	7.8228E-14	1.74099943	0.111	0.042	1.8555E-09						
Cotl1	1.133E-13	1.89967655	0.113	0.045	2.6874E-09						
Cldn2	1.1563E-13	1.70222139	0.126	0.054	2.7427E-09						
Stk32a	2.3865E-13	1.55445861	0.125	0.053	5.6605E-09						
Cp	2.4889E-13	1.68435294	0.128	0.056	5.9034E-09						
Rbl1	4.031E-13	1.36646894	0.156	0.077	9.5611E-09						
Ogfr	7.2374E-13	1.87282369	0.104	0.04	1.7167E-08						
Krt8	8.817E-13	1.23818495	0.242	0.155	2.0913E-08						
Ucp2	9.3029E-13	1.65971745	0.126	0.057	2.2066E-08						
Ctps	1.1691E-12	1.14975611	0.208	0.122	2.773E-08						
Baz1a	1.6502E-12	1.11322212	0.219	0.133	3.914E-08						
Slc6a6	1.6704E-12	1.36536543	0.193	0.113	3.962E-08						
Tmem37	1.8099E-12	1.26068724	0.171	0.092	4.2929E-08						
Ctsz	2.0329E-12	1.43275505	0.153	0.078	4.8218E-08						
Ifi35	2.3553E-12	1.08915481	0.19	0.106	5.5866E-08						
Rps18	3.4876E-12	1.51738972	0.143	0.071	8.2723E-08						
Sec61b	3.9796E-12	1.108571	0.221	0.137	9.4393E-08						
Trim25	5.5506E-12	1.3963791	0.15	0.077	1.3165E-07						
Abrac1	6.1234E-12	1.42488726	0.161	0.087	1.4524E-07						
Fgd3	6.2432E-12	1.46894373	0.177	0.101	1.4808E-07						
Capg	8.1131E-12	1.27331108	0.148	0.075	1.9244E-07						
Astn2	1.2667E-11	1.6317806	0.268	0.192	3.0046E-07						
Gm20696	1.7469E-11	1.04883661	0.247	0.164	4.1435E-07						
Gdf15	1.9093E-11	1.77761794	0.105	0.044	4.5287E-07						
Gm8186	1.911E-11	1.17980008	0.182	0.104	4.5326E-07						
Ftl1-ps1	2.4199E-11	1.25902481	0.181	0.106	5.7398E-07						
Tbrg1	2.5627E-11	1.14496686	0.182	0.106	6.0785E-07						
Tubb2a	2.9043E-11	1.14949062	0.173	0.097	6.8887E-07						
Kars	2.9833E-11	1.380822	0.133	0.066	7.0761E-07						
A230050P2OR	3.7263E-11	1.42255373	0.115	0.052	8.8385E-07						
Selenow	4.2365E-11	1.2179798	0.201	0.125	1.0049E-06						
Shisa5	7.0623E-11	1.1052396	0.207	0.129	1.6751E-06						
Ifit2	8.7834E-11	1.17961768	0.227	0.148	2.0833E-06						
Ctia4	9.1641E-11	1.16743053	0.16	0.088	2.1736E-06						
Ywhah	2.2474E-10	1.03149898	0.172	0.1	5.3306E-06						
Cndp2	2.2578E-10	1.08745358	0.206	0.131	5.3552E-06						
Fhl2	2.2811E-10	1.32306137	0.167	0.097	5.4106E-06						
Phactr1	2.2991E-10	1.10276198	0.151	0.082	5.4532E-06						
Thsd7a	2.5524E-10	1.64304696	0.125	0.064	6.0541E-06						
Svil	3.0852E-10	1.08058381	0.165	0.094	7.3179E-06						
Jpt1	5.414E-10	1.60057591	0.11	0.052	1.2841E-05						
Fmnl3	1.5068E-09	1.0376927	0.164	0.096	3.574E-05						
Nova1	1.9037E-09	1.37491298	0.116	0.058	4.5154E-05						
Hbegf	4.3174E-09	1.51776576	0.113	0.057	0.0001024						
Rpl12	4.5517E-09	1.07745306	0.172	0.106	0.00010796						
S100a16	6.2857E-09	1.38706878	0.109	0.054	0.00014909						
Rps6ka1	7.8386E-09	1.39724543	0.107	0.054	0.00018592						
Cx3cl1	8.5359E-09	1.13832517	0.132	0.073	0.00020246						

Sf3b5	1.0989E-08	1.05648916	0.176	0.111	0.00026065
Mvp	1.6963E-08	1.19469192	0.134	0.076	0.00040234
Elf3	3.6478E-08	1.16329181	0.143	0.086	0.00086521
Col4a1	7.1149E-08	1.05785822	0.169	0.109	0.00168757
Tor3a	8.2613E-08	1.28186993	0.107	0.057	0.00195951
9130230L23Rl	9.6432E-08	1.15408557	0.105	0.055	0.00228726
Kbtbd11	1.4758E-07	1.01410173	0.113	0.062	0.00350039
Cdk18	3.2451E-07	1.01899508	0.176	0.119	0.00769707
Mov10	3.8881E-07	1.02996721	0.121	0.07	0.00922228
Prkd2	4.51E-07	1.24376829	0.106	0.059	0.0106972
Tprn	7.869E-07	1.30050046	0.107	0.062	0.01866451
Klf6	9.094E-07	1.19537864	0.203	0.147	0.02157011

Table S2: Results from differential gene expression TCMR vs. Control

Distal convoluted tubules

*This Fold Change was calculated between [C57BL/6 to BALB/c] and [C57BL/6 to C57BL/6]

Gene upr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj	Gene downr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj
H2-K1	3.327E-99	4.96171012	0.995	0.266	7.8916E-95	Pvalb	1.377E-99	-8.9349062	0.003	0.542	
Spp1	1.4844E-95	3.08348928	1	0.781	3.5207E-91	Klhl3	1.1216E-95	-3.05620056	0.661	0.99	
Ilgp1	1.852E-94	8.30889388	0.96	0.026	4.3927E-90	Slc34a1	8.7275E-94	-3.92053091	0.116	0.797	
Chd9	4.3344E-93	3.60774115	0.995	0.724	1.0281E-88	Slc21a3	3.7081E-91	-1.32379105	0.987	1	
B2m	5.8312E-88	4.53796712	0.956	0.224	1.3831E-83	Kap	8.651E-88	-2.78236159	0.81	1	
H2-D1	1.3034E-85	4.45689474	0.947	0.172	3.0916E-81	Egf	9.2509E-88	-4.59963771	0.405	0.953	
Cd74	5.4735E-84	5.3221199	0.93	0.083	1.2983E-79	Wnk1	3.3918E-83	-2.14590398	0.902	1	
Stat1	4.9979E-79	5.79866324	0.894	0.115	1.1855E-74	Prkd1	1.8282E-79	-3.13089857	0.644	0.969	
Zfp981	4.6836E-78	3.14839317	0.991	0.818	1.1109E-73	Gm26870	6.5009E-77	-4.9120741	0.03	0.531	
Ly6e	6.0149E-77	3.92486313	0.922	0.203	1.4267E-72	Trpm6	5.092E-74	-2.47072699	0.694	0.979	
Ly6a	3.5557E-70	2.80454073	0.953	0.51	8.4338E-66	Esrrb	1.8505E-71	-2.99080172	0.35	0.88	
Gbp2	1.8141E-66	7.14218414	0.792	0.016	4.3029E-62	Kl	2.7957E-70	-2.70823585	0.384	0.922	
Irgm1	1.0643E-65	6.74913185	0.786	0.016	2.5245E-61	Miox	4.9411E-70	-3.59842615	0.063	0.599	
Gm42031	1.1065E-63	3.14292312	0.912	0.5	2.6244E-59	Slc16a7	3.217E-69	-2.10955783	0.739	0.995	
Irgm2	6.482E-63	6.32274072	0.772	0.031	1.5375E-58	Tdrd3	5.3136E-65	-1.77526078	0.811	0.99	
Gm20663	1.3725E-62	7.26621278	0.763	0.016	3.2553E-58	mt-Nd4	1.1115E-63	-1.96298785	0.699	0.984	
Tmsb4x	8.7177E-61	3.94206975	0.876	0.271	2.0677E-56	Ppp1r1a	1.1566E-63	-2.5405646	0.315	0.849	
Nlrc5	9.084E-60	5.07165943	0.765	0.042	2.1546E-55	Lrp2	1.3015E-62	-3.83106699	0.061	0.542	
Syne2	1.2011E-57	1.69665657	0.978	0.812	2.849E-53	Slc8a1	4.816E-62	-3.97572555	0.565	0.938	
H2-Q7	1.2456E-57	8.45495271	0.719	0.005	2.9545E-53	mt-Nd2	9.8025E-61	-1.89961489	0.653	0.974	
Gbp7	3.3387E-56	5.06284585	0.745	0.062	7.9191E-52	Tsc22d1	1.6638E-59	-1.48254576	0.926	0.995	
Parp14	4.4577E-55	6.5724669	0.711	0.026	1.0573E-52	Syne1	3.1055E-59	-1.95126259	0.619	0.948	
Lcn2	4.4792E-55	6.57818947	0.711	0.026	1.0624E-50	Uroc1	2.8819E-58	-2.6323305	0.248	0.776	
Gm25a30	4.9682E-54	3.25748691	0.847	0.359	1.1784E-49	Pdzrn3	3.1546E-58	-3.70196253	0.104	0.594	
Gm16685	3.5697E-51	1.7099138	0.953	0.729	8.4669E-47	Gm42418	5.478E-57	-1.14985819	0.999	1	
Tnfrsf10	5.1103E-51	4.06107302	0.743	0.13	1.2121E-46	Kalrn	1.3477E-54	-2.13716886	0.413	0.885	
Ccl5	1.5721E-48	9.57774348	0.642	0	3.7288E-44	Aldob	1.4369E-54	-2.41990651	0.301	0.839	
Olfr56	2.2351E-48	7.64943502	0.645	0.005	5.3014E-44	Gm2115	4.3442E-53	-6.06627081	0.012	0.344	
Uld	2.8033E-46	9.03929283	0.623	0	6.6491E-42	Larp1b	2.6641E-52	-1.70683858	0.654	0.958	
Irf1	1.0148E-44	6.71726255	0.62	0.016	2.4069E-40	Sfrp1	3.0948E-52	-2.33466589	0.404	0.859	
Gm4951	5.2345E-44	7.10181694	0.612	0.01	1.2416E-39	Cdk14	1.5033E-47	-1.57348983	0.739	0.953	
Naaladl2	1.8204E-43	2.23447573	0.869	0.443	4.3178E-39	D630024D03R	2.7395E-47	-2.49834519	0.215	0.698	
H2-Q4	4.3195E-43	7.003281	0.599	0.005	1.0246E-38	Cables1	3.7159E-47	-2.69116578	0.35	0.797	
Psmb8	1.0872E-42	6.70993335	0.599	0.01	2.5787E-38	Sgms2	1.0957E-46	-1.45696285	0.823	1	
H2-Aa	1.2553E-42	5.11323444	0.624	0.036	2.9775E-38	Lpl	1.4602E-45	-2.51605239	0.187	0.677	
H2-Ab1	2.2046E-42	5.02371226	0.625	0.042	5.229E-38	mt-Cytb	1.5344E-45	-1.74232672	0.516	0.917	
Gm12216	2.51E-42	2.88185908	0.737	0.193	5.9534E-38	Grin3a	3.2597E-45	-6.38296544	0.012	0.302	
F830016B08R	2.9679E-42	9.86275156	0.586	0	7.0396E-38	Lrrc52	4.1668E-45	-4.0576619	0.032	0.37	
Gbp8	5.6406E-42	8.8634867	0.583	0	1.3379E-37	Itpr2	4.5138E-45	-1.41798699	0.689	0.969	
Rnf213	1.4048E-41	2.90014571	0.752	0.292	3.332E-37	Oxct1	3.2775E-44	-1.32852896	0.788	0.964	
Herc6	3.8032E-41	3.35647717	0.668	0.099	9.0207E-37	Bckdhb	6.3971E-44	-1.66532242	0.587	0.911	
Cu1	1.9404E-40	2.26085939	0.85	0.432	6.4025E-36	Slc22a23	6.6153E-44	-1.87905404	0.478	0.875	
Samd5	6.24E-40	5.2979462	0.578	0.01	1.4801E-35	Sord	2.5763E-42	-2.49337947	0.185	0.646	
H2-Eb1	2.0178E-39	4.92850827	0.595	0.031	4.786E-35	Slc22a8	6.0835E-42	-5.14534048	0.007	0.266	
Camk2b	2.6027E-39	4.3892523	0.673	0.172	6.1733E-35	Wfdc15b	1.2339E-40	-2.92126989	0.148	0.562	
Tap1	8.4491E-38	5.20798391	0.57	0.031	2.004E-33	mt-Atp6	2.0526E-40	-1.40184416	0.793	0.984	
H2-Q6	2.2946E-36	6.30320336	0.538	0.01	5.4426E-32	Akr1c21	2.329E-40	-2.6761452	0.095	0.5	
Gls	5.338E-35	1.44532489	0.974	0.839	1.2661E-30	Pde7b	1.4975E-39	-1.87061828	0.532	0.865	
Oasl2	2.0493E-34	5.64327245	0.521	0.01	4.8608E-30	Rap1gap2	3.166E-39	-1.43035112	0.641	0.938	
Nfkbi2	6.0157E-34	3.30948503	0.616	0.125	1.4269E-30	Fads6	1.8451E-38	-1.96233296	0.268	0.719	
Kansl1l	1.0639E-33	1.68765031	0.898	0.635	2.5234E-29	Cnmn2	3.2301E-38	-1.72926936	0.615	0.906	
Cd274	2.3461E-33	4.74059518	0.546	0.047	5.6647E-29	Sned1	6.0005E-38	-3.84874351	0.037	0.344	
Gbp3	1.1815E-32	8.25178105	0.488	0	2.8024E-28	Cms1	1.2903E-37	-1.07703757	0.88	1	
Psmb9	1.3162E-32	5.58753603	0.505	0.016	3.1218E-28	Tox3	1.4413E-37	-1.57748842	0.726	0.938	
Gm12185	2.1726E-32	5.25678616	0.507	0.016	5.1532E-28	Epb41l3	2.9252E-37	-2.62690964	0.266	0.661	
Erb4	5.6855E-32	1.50822398	0.98	0.964	1.3485E-27	Ass1	4.9889E-37	-2.47230834	0.113	0.516	
Stat2	7.0342E-32	2.94675832	0.62	0.151	1.6684E-27	Inpp5a	1.4734E-36	-2.01750684	0.348	0.745	
Id2	8.8292E-32	2.19762784	0.714	0.276	2.0942E-27	Col4a4	3.9507E-36	-1.28590013	0.761	0.958	
Tfcp2l1	3.9603E-31	1.31817513	0.927	0.823	9.3934E-27	Gabaraapl1	1.147E-35	-1.87315238	0.365	0.771	
Cdc2a	5.9493E-31	4.02417164	0.541	0.062	1.4111E-26	mt-Co3	5.227E-35	-1.31837403	0.749	0.969	
H2-T23	6.5979E-30	3.90837155	0.517	0.047	1.5649E-25	Tex2	7.8607E-35	-2.07053993	0.286	0.693	
Nrxn3	1.9769E-29	3.206417	0.613	0.141	4.689E-25	mt-Nd3	8.0052E-35	-2.55821515	0.132	0.521	
Ifitm3	2.5746E-29	4.31332424	0.507	0.052	6.1066E-25	mt-Nd5	2.7764E-34	-2.0329268	0.263	0.677	
Gm4841	2.8625E-29	8.6722195	0.45	0	6.7896E-25	Fras1	3.0289E-34	-1.98922802	0.307	0.719	
Cxcl10	4.8176E-29	8.6044576	0.447	0	1.1427E-24	Nat8f1	3.4353E-34	-3.40272178	0.059	0.375	
Tap2	5.3715E-29	3.56949876	0.538	0.094	1.2741E-24	Tmem27	4.0895E-34	-2.124692	0.161	0.578	
Sat1	7.6795E-29	2.1025798	0.769	0.49	1.8215E-24	Adamtsl3	1.1279E-33	-4.96271667	0.013	0.245	
AW112010	1.6427E-28	6.82806127	0.447	0.005	3.8963E-23	Tom1l2	2.5466E-33	-1.45336291	0.628	0.891	
Serpin1	5.0619E-28	5.58308899	0.45	0.01	1.2006E-23	Dpb	1.294E-32	-3.04451732	0.046	0.339	
Nsun7	5.6994E-28	3.03265352	0.545	0.089	1.3518E-23	Mthfd1	1.4813E-32	-1.42455723	0.485	0.839	
Stat3	1.2158E-27	1.27477068	0.88	0.688	2.8837E-23	Mapk10	2.3008E-32	-2.594056	0.135	0.5	
Tapbp	1.4047E-27	2.53692887	0.609	0.172	3.3318E-23	mt-Nd1	4.7279E-32	-1.45512984	0.475	0.839	
Clec2d	1.8227E-27	2.59108972	0.619	0.193	4.3233E-23	Rdh16f2	1.0052E-31	-6.62984064	0.001	0.182	
Trim12a	2.6646E-27	2.58796129	0.599	0.161	6.3202E-23	Defb1	2.0964E-31	-1.71634297	0.541	0.849	
Vmp1	2.9658E-27	1.42657977	0.858	0.604	7.0346E-23	Papss1	2.668E-31	-1.84279476	0.417	0.766	
Akt3	1.2906E-26	1.84492415	0.711	0.281	3.0611E-22	Pah	4.124E-31	-3.34950847	0.028	0.281	
Atp11a	1.4076E-26	1.66956511	0.774	0.427	3.3387E-22	Top3b	5.9057E-31	-1.58277514	0.443	0.797	
Il7	1.595E-26	3.02799868	0.579	0.177	3.7832E-22	Xylt1	3.3633E-30	-2.2484183	0.142	0.505	
Tmsb10	1.8824E-26	3.88372272	0.471	0.042	4.4649E-22	Tcn2	8.7326E-30	-1.90628312	0.232	0.615	
Dysf	4.8535E-26	2.86498091	0.544	0.104	1.1512E-21	mt-Co2	1.8319E-29	-1.18759331	0.682	0.958	
Bst2	9.5097E-26	4.55856463	0.433	0.016	2.2556E-21	Ugt3a1	3.5846E-29	-5.01255089	0.005	0.188	
Cep85	9.6877E-26	2.77907222	0.681	0.349	2.2978E-21	Lrrc66	1.6898E-28	-2.13488321	0.128	0.474	
Sh3rf1	1.0726E-25	1.15824887	0.914	0.781	2.5441E-21	Emx1	3.344E-28	-1.62134438	0.356	0.729	
Ly22	1.1672E-25	5.50709489	0.422	0.01	2.7684E-21	Slc22a6	7.1397E-28	-2.96825446	0.037	0.286	
Sh3bgrl3	3.7144E-25	2.4639183	0.603	0.198	8.8102E-21	Cyp4a10	9.4134E-28	-4.1035272	0.017	0.224	
Apoe	4.7712E-25	2.92538829	0.575	0.167	1.1317E-20	Abat	1.6349E-27	-2.05248594	0.141	0.49	
Plscr2	3.1806E-24	1.42661105	0.792	0.51	7.5441E-20	G					

Gvin1	3.6428E-23	6.37298521	0.381	0.005	8.6403E-19	Fnip2	2.4771E-25	-1.58008854	0.422	0.745
Itga6	6.4368E-23	1.2253554	0.879	0.677	1.5268E-18	Calb1	3.4024E-25	-1.61165192	0.278	0.651
Zbtb16	7.5692E-23	3.85435471	0.433	0.047	1.7953E-18	Vdr	3.5382E-25	-1.20162636	0.637	0.885
Fkbp5	8.9302E-23	1.92025507	0.712	0.438	2.1181E-18	Cabcoo1	6.4482E-25	-1.31652027	0.566	0.865
Wfdc2	1.6117E-22	1.64802287	0.734	0.385	3.8229E-18	Tmem116	7.5261E-25	-1.08377103	0.681	0.885
Piezol	1.6865E-22	1.99145943	0.6	0.224	4.0001E-18	Gm32569	1.5853E-24	-1.39751136	0.454	0.781
Gm26624	3.9648E-22	2.35762244	0.573	0.214	9.4042E-18	Vegfd	1.6615E-24	-3.07577773	0.047	0.286
Dock10	4.4239E-22	2.28315681	0.561	0.172	1.0493E-17	Gm47708	1.8795E-24	-3.86156065	0.011	0.182
Parp9	7.2716E-22	2.52295769	0.522	0.146	1.7248E-17	Gm49272	2.2586E-24	-2.74863175	0.053	0.297
Tgtp2	8.7496E-22	7.53308783	0.356	0	2.0753E-17	Dnase1	5.9767E-24	-4.89797544	0.011	0.177
Arl15	1.232E-21	1.32306238	0.799	0.427	2.9222E-17	Dnah11	6.6277E-24	-2.58161832	0.062	0.318
Pea15a	3.0374E-21	2.79559609	0.488	0.115	7.2045E-17	mt-Nd4l	7.8216E-24	-1.82620437	0.179	0.516
Samhd1	3.247E-21	3.15599275	0.453	0.078	7.7017E-17	Idh2	8.4535E-24	-1.37671189	0.437	0.76
Pla2g16	1.4504E-20	3.12981808	0.43	0.068	3.4402E-16	Stk32b	9.2919E-24	-1.43875865	0.468	0.781
Rtna	5.8259E-20	1.86802676	0.66	0.359	1.3818E-15	Mep1a	1.1647E-23	-2.04549387	0.082	0.365
Itgav	4.7306E-19	1.66696419	0.846	0.708	1.1221E-14	Gm13052	3.751E-23	-2.02699362	0.136	0.443
Gm32857	9.5783E-19	4.72890806	0.35	0.026	2.2719E-14	Tsc22d2	5.3264E-23	-1.01826736	0.814	0.948
Rtp4	1.1698E-18	7.19877021	0.313	0	2.7748E-14	Itpkb	1.1154E-22	-1.66419223	0.311	0.635
Clint1	1.2111E-18	1.06632797	0.856	0.745	2.8725E-14	Hadh	2.1617E-22	-1.90521767	0.169	0.484
Ap2b1	1.3685E-18	1.16108777	0.805	0.526	3.2459E-14	Fbp1	6.653E-22	-2.44498734	0.062	0.307
Rps29	1.7544E-18	1.45812765	0.737	0.427	4.1613E-14	Fut9	9.6242E-22	-2.01767266	0.128	0.427
Myof	2.3646E-18	1.9599602	0.594	0.276	5.6086E-14	Tbc1d4	1.8322E-21	-1.31369279	0.433	0.734
Spns2	2.6974E-18	6.37834894	0.321	0.01	6.398E-14	Slc22a4	6.8566E-21	-2.31924605	0.137	0.417
S100a11	3.507E-18	1.74367259	0.606	0.276	8.3182E-14	Plekha6	8.2119E-21	-1.3182784	0.505	0.771
Serinc3	4.0929E-18	1.24800875	0.741	0.464	9.708E-14	Tef	8.9838E-21	-1.60480201	0.253	0.578
H2-T22	5.5321E-18	2.83542654	0.423	0.094	1.3121E-13	Hmgcll1	1.0334E-20	-1.26107674	0.542	0.818
9530026P05R	6.3562E-18	1.23432149	0.852	0.661	1.5076E-13	Keg1	1.0839E-20	-2.00301496	0.148	0.443
Fbxw17	9.3083E-18	5.22719049	0.315	0.01	2.2078E-13	Ak4	1.2587E-20	-3.85329173	0.015	0.172
Paxbp1	1.0437E-17	1.17296608	0.756	0.547	2.4755E-13	Piga	1.7957E-20	-2.24563061	0.113	0.385
Cxcl9	1.4252E-17	7.6186292	0.297	0	3.3803E-13	Prox1	6.717E-20	-1.7379973	0.236	0.552
Ltc4s	1.6346E-17	2.46023818	0.45	0.115	3.8771E-13	Spink1	6.9815E-20	-1.61718927	0.183	0.505
Spmbl0	1.8837E-17	4.01659609	0.33	0.021	4.468E-13	Scara5	1.855E-19	-2.01559865	0.144	0.422
Sema3c	1.9035E-17	2.9941791	0.422	0.099	4.5149E-13	Srl	2.1522E-19	-2.76153496	0.074	0.302
Ctps	2.2756E-17	4.69452968	0.325	0.021	5.3975E-13	Ces1f	3.3143E-19	-4.03862417	0.007	0.135
Vcam1	2.5242E-17	5.53559361	0.309	0.01	5.9871E-13	Colgalt2	6.0201E-19	-1.99967941	0.145	0.422
Rasgrp1	3.4386E-17	6.33457169	0.298	0.005	8.1559E-13	Ddo	7.8144E-19	-1.10025508	0.633	0.854
Tinag	3.6904E-17	2.17664762	0.504	0.182	8.7532E-13	Gatm	9.2418E-19	-1.91229512	0.092	0.349
Nmi	4.5495E-17	2.409963	0.47	0.161	1.0791E-12	Ttc36	9.4055E-19	-1.45498652	0.222	0.547
Mast4	4.8615E-17	1.22059093	0.755	0.474	1.1531E-12	Slc13a3	1.1276E-18	-3.45963631	0.02	0.177
Ifi27	5.8437E-17	2.42396846	0.442	0.115	1.3861E-12	Sv2a	1.6563E-18	-1.1675618	0.212	0.516
Fmnl2	5.9325E-17	1.5376689	0.65	0.359	1.4071E-12	Acat1	1.708E-18	-1.04112594	0.471	0.781
Pycard	8.3597E-17	1.97216978	0.536	0.224	1.9828E-12	Cyp4a14	1.9143E-18	-4.54785348	0.007	0.13
Gm4070	8.9332E-17	6.97289417	0.285	0	2.1189E-12	Lhx1	2.174E-18	-1.33263574	0.433	0.729
Idnk	9.8766E-17	2.29336254	0.454	0.135	2.3426E-12	Adamsl2	2.2092E-18	-4.17287177	0.005	0.125
Dtx3l	1.0794E-16	5.17801656	0.299	0.01	2.5602E-12	Rtl4	2.3759E-18	-2.55333163	0.082	0.307
Ptpn13	1.2141E-16	1.36710027	0.788	0.573	2.8796E-12	Gm15848	2.5848E-18	-2.84887347	0.051	0.25
Gm26804	1.6889E-16	1.66622215	0.682	0.453	4.006E-12	Col4a3	2.6324E-18	-1.02406168	0.654	0.854
Birc3	1.7983E-16	2.43582523	0.471	0.151	4.2655E-12	D3Ertd751e	3.6401E-18	-2.01892347	0.14	0.401
Sh2d4b	2.8574E-16	4.74291111	0.302	0.016	6.7775E-12	Slc43a2	3.6673E-18	-1.22391381	0.48	0.75
Xaf1	5.3373E-16	4.26956002	0.305	0.021	1.266E-11	Lhx1os	5.7748E-18	-1.60319161	0.274	0.562
Tpt1	5.3763E-16	1.11595284	0.854	0.682	1.2752E-11	Gm13262	7.3876E-18	-1.9539952	0.08	0.312
Psmel	6.061E-16	2.41756922	0.425	0.115	1.4376E-11	Igfbbp4	1.3065E-17	-2.3913574	0.084	0.312
H3f3b	1.3138E-15	1.58037326	0.587	0.281	3.1161E-11	Nhs12	1.9771E-17	-1.9580534	0.15	0.411
Pigr	1.3143E-15	1.76683503	0.525	0.214	3.1174E-11	Cat	2.2726E-17	-1.85171536	0.194	0.464
Parp12	1.4104E-15	1.72603271	0.541	0.24	3.3454E-11	mt-Atp8	2.2932E-17	-2.20844802	0.092	0.318
Socs1	1.454E-15	7.10123622	0.266	0	3.4488E-11	Bckdha	2.3031E-17	-1.31354097	0.338	0.625
Ifitm10	1.6515E-15	5.14737406	0.276	0.005	3.9173E-11	Sybu	5.3458E-17	-2.00218746	0.107	0.349
Zfp36l1	1.7685E-15	1.69876167	0.591	0.318	4.1948E-11	Ppargc1b	8.0137E-17	-1.3450435	0.34	0.625
Tlcd2	1.8366E-15	1.78186971	0.524	0.219	4.3561E-11	Itga1	1.0395E-16	-1.03546594	0.472	0.75
Elf2	4.3771E-15	4.31353238	0.285	0.016	1.0382E-10	Spp2	1.1252E-16	-3.39511108	0.011	0.135
Plac8	4.4899E-15	5.44914255	0.268	0.005	1.065E-10	Prkce	1.5218E-16	-1.00374531	0.679	0.828
Cd47	5.2089E-15	1.44958026	0.599	0.302	1.2355E-10	Phf2	1.5337E-16	-1.84011916	0.156	0.411
Trim30a	6.259E-15	4.01621121	0.297	0.026	1.4846E-10	Atp2b4	1.5591E-16	-1.28717206	0.28	0.578
Actb	6.5676E-15	1.27770068	0.765	0.578	1.5578E-10	Khk	1.6266E-16	-2.21246555	0.047	0.234
Adgrg3	8.4307E-15	3.38807274	0.325	0.047	1.9997E-10	Kcnn2	1.6408E-16	-2.34580123	0.077	0.286
2810474019R	1.6923E-14	1.33336894	0.699	0.469	4.0141E-10	Sfxn5	1.9798E-16	-1.19366997	0.405	0.682
Syt2	1.7869E-14	4.53249433	0.274	0.016	4.2384E-10	Isyna1	3.1503E-16	-1.97411347	0.061	0.26
Nuak2	1.9691E-14	2.27220274	0.476	0.198	4.6705E-10	Arnt2	4.6091E-16	-1.19573188	0.732	0.88
Gbp5	2.1902E-14	7.6478189	0.248	0	5.1949E-10	Dnajc6	5.451E-16	-1.73284639	0.232	0.49
Csnq1ot1	3.0313E-14	1.70836023	0.637	0.411	7.1898E-10	Syt9	7.6738E-16	-1.58659627	0.158	0.417
Samd9l	3.0392E-14	1.43638773	0.596	0.333	7.2086E-10	Fam107a	9.6633E-16	-1.86230926	0.139	0.38
Rps20	3.5337E-14	1.24055341	0.685	0.438	8.3816E-10	Aadat	1.1658E-15	-2.92975495	0.036	0.198
Pak1	5.6794E-14	2.89439822	0.347	0.073	1.3471E-09	Afm	1.2616E-15	-2.1451878	0.123	0.354
ly6c1	8.3914E-14	2.99025045	0.313	0.047	1.9904E-09	Pdzk1	1.4002E-15	-2.02214967	0.08	0.292
Immp2l	9.4383E-14	1.27727421	0.657	0.385	2.2387E-09	Rab27a	1.4106E-15	-1.23586537	0.375	0.641
Ddx60	1.6169E-13	3.39754453	0.253	0.01	3.8351E-09	Gas1	1.6713E-15	-2.907402	0.034	0.193
Parp8	1.6806E-13	1.24480973	0.799	0.578	3.9862E-09	Sal13	2.3055E-15	-1.11600659	0.4	0.667
Zbp1	1.7503E-13	6.69082644	0.234	0	4.1517E-09	Slc5a2	2.5473E-15	-2.78535345	0.024	0.167
Col5a2	1.8277E-13	1.81918955	0.648	0.458	4.3351E-09	Unc5b	3.8454E-15	-2.42496714	0.037	0.198
Gab2	2.022E-13	1.11445209	0.707	0.438	4.7959E-09	Ttr	4.097E-15	-3.65236775	0.011	0.125
Apol6	3.0612E-13	6.81376617	0.23	0	7.2608E-09	Acaa1b	4.9671E-15	-2.99318571	0.025	0.167
Adamts6	3.3072E-13	1.51230271	0.54	0.255	7.8443E-09	Map2k6	5.0934E-15	-1.36353825	0.227	0.49
Cerkl	3.3485E-13	3.45502948	0.29	0.042	7.9423E-09	Cox6c	5.1227E-15	-1.02625422	0.511	0.755
Msn	3.6332E-13	2.1458971	0.418	0.146	8.6175E-09	Mgst3	5.3852E-15	-1.4259889	0.21	0.479
Jun	3.7679E-13	2.88624752	0.297	0.042	8.9372E-09	Tob1	5.954E-15	-1.19301127	0.301	0.578
AC166344.1	3.9061E-13	2.35393974	0.356	0.089	9.2649E-09	Ush1c	6.9478E-15	-1.16757039	0.361	0.625
Gm8439	5.0359E-13	5.37327167	0.235	0.005	1.1945E-08	Pgam2	9.1457E-15	-1.76234854	0.124	0.354
4930486i03Ri	5.4117E-13	1.58547666	0.565	0.312	1.2836E-08	Ces1d	1.1513E-14	-3.06801787	0.015	0.135
Sipa111	5.5735E-13	1.51205442	0.555	0.312	1.322E-08	Ugt3a2	1.2721E-14	-2.69194452	0.028	0.172
Plcb1	5.6403E-13	1.75248998	0.476	0.203	1.3378E-08	Adhfe1	1.6186E-14	-1.36503049	0.265	0.526
Gm44148	6.2266E-13	2.62419085	0.311	0.052	1.4769E-08	Rap1gap	1.8778E-14	-1.16129322	0.331	0.599
Klf23	6.5971E-13	2.43								

Ifi44	2.7604E-12	4.92721282	0.231	0.01	6.5473E-08	Rhpn2	1.7884E-13	-1.67584031	0.128	0.344
Tnfrsf21	3.3905E-12	1.99800868	0.442	0.188	8.0419E-08	Fam13c	1.8776E-13	-1.78425762	0.128	0.344
Adamts1	3.3966E-12	4.88938152	0.244	0.021	8.0563E-08	Ank2	2.0658E-13	-1.15347364	0.463	0.688
Cp	3.949E-12	4.15541314	0.274	0.042	9.3666E-08	Sgsm1	2.0971E-13	-1.54607446	0.173	0.411
Ifih1	4.2013E-12	3.81340958	0.252	0.026	9.965E-08	9430037G07Ri	2.2457E-13	-2.35387472	0.046	0.203
Pax8	4.8405E-12	1.57048168	0.538	0.286	1.1481E-07	Anks1	2.416E-13	-1.00665941	0.476	0.714
D430041D05F	5.49E-12	4.20522461	0.243	0.021	1.3022E-07	Ppara	2.6166E-13	-1.32390788	0.195	0.443
Tspan14	6.5683E-12	1.48105241	0.483	0.234	1.5579E-07	Abhd6	3.1068E-13	-1.34992569	0.331	0.589
Wsb1	6.8662E-12	1.1051972	0.687	0.495	1.6286E-07	Cntrn3	3.2589E-13	-1.85905433	0.106	0.307
Zfhx3	7.9309E-12	1.16452951	0.636	0.396	1.8811E-07	Nox4	4.0311E-13	-1.75395037	0.108	0.318
Gm10073	8.8389E-12	1.29823435	0.624	0.406	2.0965E-07	Fam234a	4.4331E-13	-1.28584429	0.311	0.557
Tspo	9.1628E-12	1.5141685	0.55	0.297	2.1733E-07	Pecr	4.549E-13	-2.16802105	0.044	0.198
Klf7	1.194E-11	1.56835981	0.524	0.281	2.8321E-07	Slc16a10	4.9611E-13	-1.08452625	0.346	0.604
Acadl	1.22E-11	1.13217399	0.687	0.453	2.8938E-07	5830473C10Ri	5.0559E-13	-3.48432661	0.013	0.12
Col18a1	1.3985E-11	1.57190079	0.517	0.281	3.3171E-07	Fam81a	5.4302E-13	-1.44505581	0.212	0.458
Erap1	1.7612E-11	1.94530059	0.381	0.13	4.1774E-07	Atpv6v1c2	5.45E-13	-3.35452201	0.013	0.12
Ndrg1	1.766E-11	1.2759769	0.683	0.49	4.1888E-07	1700028J19Ril	8.4529E-13	-1.82941415	0.088	0.276
4930599N23R	2.5052E-11	2.07677341	0.358	0.115	5.9421E-07	Gm5860	8.5364E-13	-2.05421106	0.053	0.214
Upp1	2.6593E-11	2.92487454	0.284	0.057	6.3077E-07	0610005C13Ri	9.2524E-13	-2.07094627	0.062	0.229
Smad1	2.8712E-11	1.54869401	0.435	0.177	6.8103E-07	Mreg	9.6094E-13	-2.55947819	0.032	0.167
Prkab1	2.9678E-11	1.54487046	0.443	0.182	7.0392E-07	Aass	1.0631E-12	-1.83716822	0.071	0.25
Patl2	4.6839E-11	3.0626407	0.247	0.031	1.111E-06	Mccc1	1.2925E-12	-1.13484739	0.272	0.531
Vim	4.828E-11	6.65676321	0.193	0	1.1452E-06	Macrod1	1.4066E-12	-1.45584444	0.224	0.464
Gm19684	5.2571E-11	5.28671665	0.201	0.005	1.2469E-06	Umod	1.6879E-12	-1.1421128	0.695	0.859
Fyb2	5.6735E-11	3.76836054	0.234	0.026	1.3457E-06	Pamr1	1.9462E-12	-1.54484218	0.129	0.339
Parp10	6.0095E-11	2.08725447	0.322	0.083	1.4254E-06	Slc30a2	2.1655E-12	-3.37742248	0.018	0.13
Nrg1	6.1905E-11	1.19363835	0.708	0.531	1.4683E-06	Chrna4	2.3868E-12	-2.21242613	0.055	0.214
Trim5	6.9139E-11	3.46572262	0.234	0.026	1.6399E-06	Klhl32	3.11E-12	-1.43009924	0.215	0.443
Gsr	6.9645E-11	1.672662	0.417	0.161	1.6519E-06	Cytip	3.4781E-12	-1.01210085	0.401	0.646
Rps27a	7.3266E-11	1.19076772	0.599	0.359	1.7378E-06	Slc2a12	3.5885E-12	-1.91298757	0.07	0.24
Lgals3	8.6705E-11	1.72325923	0.416	0.167	2.0565E-06	Papss2	5.3686E-12	-2.00198645	0.057	0.214
Anxa3	8.7819E-11	4.24148247	0.199	0.005	2.083E-06	Bcat2	6.5739E-12	-1.370443	0.259	0.479
C1qa	9.6855E-11	4.68212777	0.198	0.005	2.2973E-06	Ggnbnp1	7.2604E-12	-1.69326241	0.12	0.318
Sl3gal4	1.0406E-10	1.98193995	0.359	0.12	2.4682E-06	Hao2	8.4625E-12	-1.98010844	0.071	0.24
Pmepa1	1.0412E-10	1.37781272	0.547	0.307	2.4696E-06	Slc22a12	8.8114E-12	-2.3478223	0.042	0.182
Cebpd	1.1278E-10	3.73154499	0.23	0.026	2.6751E-06	Acot11	9.2858E-12	-1.26649565	0.29	0.516
Unc93b1	1.1982E-10	1.97996356	0.346	0.104	2.8421E-06	Pptc7	1.0237E-11	-1.00803538	0.425	0.641
Serpina3g	1.3782E-10	6.64634153	0.185	0	3.269E-06	S100g	1.0484E-11	-1.28449416	0.257	0.5
Clic1	1.4025E-10	1.31796565	0.507	0.266	3.3265E-06	Cubn	1.081E-11	-2.38964406	0.041	0.177
Ptp4a2	1.4129E-10	1.2889055	0.586	0.38	3.3512E-06	Acy3	1.2062E-11	-1.30068835	0.22	0.458
Arhgap8	1.4342E-10	3.47269646	0.204	0.01	3.4017E-06	Dusp15	1.3138E-11	-2.94627856	0.015	0.115
Map3k1	1.4745E-10	1.19847026	0.657	0.505	3.4974E-06	Dmtn	1.5432E-11	-1.10112168	0.367	0.589
Csf2ra	1.6893E-10	3.29546685	0.222	0.021	4.0069E-06	Gcnt1	1.9615E-11	-1.64609612	0.083	0.26
Junb	1.9349E-10	4.21055509	0.208	0.016	4.5894E-06	Fmo1	2.1951E-11	-2.43734013	0.022	0.135
Hprt	2.0913E-10	2.13673771	0.315	0.089	4.9603E-06	Gm31045	2.7728E-11	-2.20009733	0.032	0.156
9130230L23Ri	2.188E-10	1.97128316	0.332	0.099	5.1897E-06	Gm33543	3.0295E-11	-2.6890202	0.03	0.151
Gm47283	2.2568E-10	2.5800491	0.251	0.042	5.3528E-06	Acacb	3.3026E-11	-1.01272888	0.413	0.651
Gmids	2.331E-10	1.15130141	0.646	0.406	5.5289E-06	Osbp2	3.8285E-11	-1.69306781	0.113	0.297
Esr1	2.5168E-10	1.79936634	0.383	0.146	5.9697E-06	Gm42697	3.8919E-11	-1.74607102	0.038	0.172
Rpl6	2.6313E-10	1.18295724	0.567	0.333	6.2412E-06	Zfp385b	4.9674E-11	-1.38613378	0.145	0.349
Fau	2.6995E-10	1.12507918	0.546	0.302	6.4029E-06	Sept6	6.3941E-11	-1.23762019	0.125	0.323
Krt8	2.944E-10	2.47427347	0.284	0.068	6.9828E-06	Mettl7b	6.8432E-11	-2.28605802	0.024	0.135
Tmem176b	3.1051E-10	1.15098981	0.584	0.339	7.3649E-06	Ugt2b38	6.8843E-11	-2.44901465	0.02	0.125
Tapbp1	3.2011E-10	3.46363751	0.222	0.026	7.5928E-06	Slc16a5	6.9589E-11	-1.37737889	0.19	0.401
Txnip	3.3247E-10	1.04088423	0.708	0.625	7.8858E-06	Vps13c	6.9775E-11	-1.03122609	0.355	0.578
Acsf5	3.474E-10	1.50411175	0.439	0.203	8.2401E-06	Fign	7.8049E-11	-1.50962305	0.185	0.391
BC005561	3.8259E-10	1.05887574	0.604	0.38	9.0745E-06	Acaa2	9.1736E-11	-1.38555509	0.145	0.344
Mlit3	4.2008E-10	2.81892966	0.265	0.057	9.9639E-06	Fam151a	9.4379E-11	-3.28014099	0.013	0.104
Ifit2	4.3845E-10	3.98356844	0.203	0.016	1.04E-05	Pbld1	9.9013E-11	-1.55104884	0.16	0.359
Sp140	4.6975E-10	3.59809737	0.197	0.01	1.1142E-05	Pcx	1.0844E-10	-1.93757855	0.073	0.229
Acot9	5.3437E-10	1.63128614	0.442	0.219	1.2675E-05	Perm1	1.0941E-10	-3.1738926	0.013	0.104
C230088H06R	5.5676E-10	2.85464003	0.261	0.057	1.3206E-05	Sdhc	1.096E-10	-1.07241285	0.33	0.562
Tacstd2	6.135E-10	2.08948369	0.314	0.094	1.4552E-05	Scml4	1.1195E-10	-1.63495237	0.115	0.297
Rplp0	7.7516E-10	1.14751646	0.604	0.401	1.8386E-05	Slc27a2	1.1385E-10	-1.08054864	0.33	0.557
Irf7	8.0481E-10	4.8445439	0.181	0.005	1.9089E-05	Nup93	1.471E-10	-1.35828279	0.334	0.531
Rpl19	8.6343E-10	1.04274228	0.675	0.474	2.048E-05	Napsa	1.4879E-10	-1.05811193	0.582	0.781
AU020206	9.1409E-10	6.18555797	0.17	0	2.1681E-05	Tmem94	1.7777E-10	-1.17198588	0.235	0.453
Xdh	9.2347E-10	3.80824897	0.206	0.021	2.1904E-05	Pik3c2g	1.7838E-10	-1.54530488	0.142	0.333
Ifi35	9.322E-10	2.63746904	0.26	0.057	2.2111E-05	Rida	1.9698E-10	-1.15230911	0.311	0.547
Cxcl17	1.2056E-09	3.51683767	0.204	0.021	2.8596E-05	C130050018R	1.9852E-10	-2.18792125	0.028	0.141
Gm48678	1.2904E-09	1.49731722	0.47	0.25	3.0607E-05	Depdc1b	2.1124E-10	-1.4336207	0.125	0.312
Ano9	1.3598E-09	1.91372918	0.306	0.089	3.2252E-05	Pdk2	2.165E-10	-1.16907538	0.22	0.432
Hdac7	1.3902E-09	1.62290276	0.396	0.172	3.2975E-05	Gm44386	2.3774E-10	-1.60251077	0.099	0.271
Cntrn5	1.4716E-09	2.17180928	0.31	0.099	3.4905E-05	Cyp2j5	2.641E-10	-1.34590802	0.119	0.307
Rpl32	2.0832E-09	1.04261775	0.644	0.427	4.9412E-05	Al838599	2.6917E-10	-2.01711404	0.088	0.25
Parp3	2.6876E-09	2.00005735	0.274	0.068	6.3747E-05	Cnnm1	2.9255E-10	-1.42973916	0.148	0.339
Serpib9	2.7033E-09	3.81615769	0.19	0.016	6.4118E-05	Uqcr11	3.2553E-10	-1.15180674	0.281	0.495
Rpl39	2.7551E-09	1.76560597	0.364	0.151	6.5347E-05	Igfbp5	3.8413E-10	-2.02089932	0.041	0.167
Mxra7	2.7789E-09	3.50659945	0.198	0.021	6.5913E-05	Gsta2	3.9585E-10	-1.95145852	0.036	0.156
4932411K12R	2.7864E-09	2.11035908	0.322	0.115	6.6092E-05	Slc5a12	4.1166E-10	-2.93341005	0.025	0.13
Pawr	3.1899E-09	1.09653046	0.54	0.318	7.5661E-05	Amn	5.2131E-10	-2.49012014	0.018	0.115
Nipal2	3.3906E-09	1.45850946	0.402	0.177	8.0422E-05	Slc7a12	5.3025E-10	-2.53084274	0.018	0.115
Trim12c	3.5767E-09	1.89842117	0.314	0.104	8.4836E-05	Pdgfc	5.4539E-10	-1.03879354	0.302	0.516
Ctso	3.6804E-09	1.58921708	0.34	0.12	8.7296E-05	Abhd14b	5.5885E-10	-1.42001122	0.115	0.292
Il18bp	4.0922E-09	2.92291111	0.212	0.031	9.7063E-05	2610035D17Ri	5.6191E-10	-1.27682316	0.325	0.531
Emp2	4.2305E-09	4.23324362	0.177	0.01	0.00010034	Zfp629	5.8002E-10	-1.56136045	0.084	0.245
C1qb	4.7041E-09	5.45922208	0.166	0.005	0.00011158	Scd1	5.9232E-10	-2.53482372	0.028	0.135
Batf2	4.9216E-09	5.14328546	0.174	0.01	0.00011673	Nr1d1	6.248E-10	-2.4281481	0.044	0.167
Tyrobp	4.9346E-09	6.25725963	0.157	0	0.00011704	Gm4593	7.0881E-10	-1.82275793	0.083	0.24
Zdhhc6	4.9885E-09	1.16686549	0.46	0.219	0.00011832	Akr7a5	7.7452E-10	-1.40352708	0.092	0.26
Arntl	5.041E-09	3.16343944	0.208	0.031	0.00011957	Ldlr	7.7575E-10</			

Icam1	8.0691E-09	4.59871769	0.172	0.01	0.00019139	Matn4	1.4344E-09	-2.56439337	0.016	0.104
Map3k14	8.4901E-09	1.34865621	0.445	0.229	0.00020138	Mapre2	1.5889E-09	-1.29388932	0.27	0.458
Tubb5	8.884E-09	2.92285296	0.206	0.031	0.00021072	Ccdc62	1.9299E-09	-1.16202026	0.231	0.432
Cst3	9.4939E-09	1.20581642	0.505	0.297	0.00022519	N4bp2	1.9765E-09	-1.08126191	0.389	0.568
Pkp2	1.1784E-08	1.26275185	0.406	0.182	0.0002795	Acadm	2.1046E-09	-1.17447269	0.273	0.484
Rpl10a	1.2347E-08	1.17201628	0.475	0.26	0.00029285	Mfsd4b5	2.1995E-09	-2.07100127	0.047	0.172
Gm44511	1.2359E-08	1.11187762	0.505	0.297	0.00029315	Glyat	2.482E-09	-1.51381494	0.084	0.24
Plscr1	1.3219E-08	1.70496841	0.365	0.161	0.00031355	Batf3	2.5901E-09	-2.65384896	0.033	0.141
Gadd45a	1.5498E-08	2.73342854	0.203	0.031	0.00036761	Nadk2	2.7314E-09	-1.01769193	0.297	0.5
Laptn4a	1.8478E-08	1.09096776	0.509	0.312	0.00043828	Capn6	2.8785E-09	-1.87610841	0.05	0.177
Npas2	1.8878E-08	2.90171419	0.215	0.042	0.00044776	Atp2b2	3.0029E-09	-1.45551457	0.123	0.292
1700024B05R	1.9416E-08	2.8512185	0.202	0.031	0.00046054	Acad11	3.7748E-09	-1.38229119	0.174	0.354
Anxa2	1.9816E-08	3.89749171	0.157	0.005	0.00047001	4930556J24Ril	3.9994E-09	-1.34384265	0.245	0.438
Arpc1b	2.0354E-08	1.6432519	0.265	0.073	0.00048277	Mgam	5.279E-09	-1.65185252	0.125	0.286
Itgb6	2.0455E-08	1.35736221	0.65	0.49	0.00048517	Ppat	6.2159E-09	-1.12227618	0.292	0.49
Rps12-ps3	2.1167E-08	1.71693999	0.299	0.104	0.00050206	Car2	6.2677E-09	-1.89123193	0.077	0.219
Trim34a	2.1627E-08	1.47763459	0.34	0.135	0.00051296	Abcg2	6.6359E-09	-1.71401682	0.058	0.188
Sfsa2	2.2983E-08	1.39228341	0.358	0.151	0.00054513	Ckb	6.7533E-09	-1.54914341	0.145	0.318
C3	2.444E-08	3.19346887	0.182	0.021	0.00057969	6430573F11Ri	7.2442E-09	-2.21861694	0.057	0.182
Gm11536	2.4604E-08	1.8024348	0.326	0.13	0.00058358	Fam117a	7.4351E-09	-1.54793855	0.104	0.26
Gm26835	3.0617E-08	2.07235208	0.252	0.068	0.00072619	Narf	7.8153E-09	-1.23716148	0.177	0.365
Slc22a15	3.1504E-08	3.23977491	0.179	0.021	0.00074723	Cmtm8	8.3467E-09	-1.23674127	0.199	0.391
Ephb2	3.3428E-08	2.54967253	0.227	0.052	0.00079288	Slc2a2	1.0439E-08	-2.51796175	0.018	0.104
Itpr3	3.6681E-08	3.50046178	0.177	0.021	0.00087003	Pgrmc2	1.1174E-08	-1.60105399	0.109	0.266
Cdh6	3.6881E-08	3.8023744	0.177	0.021	0.00087479	Bdh2	1.207E-08	-2.43461891	0.018	0.104
Svil	4.0279E-08	1.4044991	0.389	0.188	0.00095539	Fmo2	1.3114E-08	-2.19798588	0.025	0.12
Clic4	4.0299E-08	1.14879632	0.489	0.271	0.00095584	Alpl	1.3114E-08	-2.07779777	0.025	0.12
Hap1	4.3429E-08	3.69148095	0.168	0.016	0.0010301	Irs1	1.5864E-08	-1.07297145	0.307	0.5
Rnf19a	4.4233E-08	1.00326802	0.566	0.385	0.00104915	Fam98a	1.6666E-08	-1.21889572	0.178	0.354
Cebpb	4.4258E-08	4.19627354	0.158	0.01	0.00104976	Gpam	1.7489E-08	-1.47016248	0.084	0.229
Trpm3	4.4853E-08	1.3976062	0.326	0.125	0.00106387	Cela1	2.0783E-08	-1.8791336	0.033	0.135
Il3a	4.7828E-08	3.23951996	0.185	0.026	0.00113442	Crocc	2.148E-08	-1.46556552	0.084	0.229
Rps9	4.8399E-08	1.10525373	0.577	0.427	0.00114798	Slco1a6	2.2864E-08	-2.33014668	0.026	0.12
Ctnn	5.1659E-08	1.2634171	0.414	0.203	0.00122529	Bmp6	2.5063E-08	-2.04288927	0.045	0.156
Gm43713	5.5183E-08	1.21302953	0.474	0.276	0.00130889	Pbld2	2.5638E-08	-2.03951336	0.047	0.161
Gm6034	5.5753E-08	3.45820352	0.166	0.016	0.00132239	Aldh8a1	2.6536E-08	-2.58057556	0.02	0.104
Ifit3	6.1083E-08	4.64589921	0.146	0.005	0.00144883	Gm16035	3.0177E-08	-2.11556072	0.029	0.125
Rps11	7.5874E-08	1.41408568	0.396	0.203	0.00179965	Tmem8	3.6105E-08	-1.61697157	0.069	0.198
Osmr	7.8193E-08	4.41602992	0.145	0.005	0.00185467	Fdxr	4.1904E-08	-1.40719714	0.128	0.281
Prickle2	7.8692E-08	2.8343566	0.166	0.016	0.0018665	Pygl	4.5817E-08	-1.20839123	0.168	0.333
0610040F04R	7.8767E-08	3.35446933	0.164	0.016	0.00186827	Sult1c2	5.954E-08	-1.12225307	0.119	0.276
Anxa5	9.334E-08	1.5576557	0.364	0.177	0.00221392	4930481A15Ri	6.5705E-08	-1.5435875	0.099	0.24
Gm12860	9.4992E-08	5.65181987	0.133	0	0.00225311	Tnfsf15	7.545E-08	-2.09537141	0.033	0.13
Casp12	9.4992E-08	6.02422217	0.133	0	0.00225311	Col27a1	7.673E-08	-1.78775781	0.028	0.12
Rnf217	9.9971E-08	1.31392858	0.365	0.161	0.00237121	Tarsl2	7.7887E-08	-1.86764926	0.036	0.135
Gm15347	1.0944E-07	2.44767438	0.224	0.057	0.00259587	Prps2	8.0873E-08	-1.26786712	0.169	0.333
Cfi1	1.1045E-07	1.69170867	0.293	0.104	0.00261972	Aebp1	8.7398E-08	-1.16544604	0.109	0.26
Cd24a	1.1586E-07	1.56373798	0.339	0.151	0.00274809	Kcnj15	9.3764E-08	-1.76158772	0.077	0.203
Scin	1.2193E-07	2.42861123	0.26	0.089	0.00289194	Slc22a2	9.8697E-08	-2.12515723	0.024	0.109
Fat1	1.2675E-07	1.62009287	0.306	0.12	0.00300629	Pdlim1	1.1145E-07	-1.59058937	0.05	0.161
Plekha2	1.275E-07	2.62664805	0.187	0.031	0.00302424	Gpr162	1.122E-07	-2.03692859	0.037	0.135
Rpl9-ps6	1.3459E-07	1.22118608	0.558	0.385	0.00319235	Ccdc68	1.1311E-07	-1.47336479	0.108	0.25
Vvwa5a	1.3904E-07	1.3856346	0.36	0.167	0.00329788	4931406C07Ri	1.1543E-07	-1.32550247	0.165	0.328
Rps14	1.417E-07	1.25304541	0.472	0.286	0.00336097	Tns2	1.1999E-07	-1.4751896	0.106	0.245
Tmem140	1.5685E-07	2.16643895	0.228	0.062	0.00372033	Retsat	1.3348E-07	-1.97365255	0.055	0.167
Dynll1	1.6366E-07	1.79883125	0.293	0.115	0.00388178	Al314278	1.4931E-07	-2.0173594	0.04	0.141
Samd4	1.8291E-07	2.3048226	0.185	0.031	0.00433838	Mpv17l	1.774E-07	-1.02007544	0.27	0.443
A230050P20R	1.9329E-07	3.15439254	0.165	0.021	0.00458464	Cd36	2.0201E-07	-1.97836159	0.022	0.104
Bdkrb2	2.0029E-07	2.84962579	0.166	0.021	0.0047507	Prickle1	2.0411E-07	-1.14839887	0.198	0.37
Birc2	2.0494E-07	1.41849809	0.409	0.234	0.00486107	Acadvl	2.0613E-07	-1.1459025	0.128	0.276
Zc3hav1	2.1894E-07	1.66727213	0.261	0.083	0.00519295	Adam22	2.4247E-07	-1.09428391	0.206	0.375
Rsad2	2.3321E-07	4.46011988	0.136	0.005	0.00553152	Tmem64	2.4336E-07	-1.3642838	0.103	0.24
Ciita	2.4928E-07	6.03178461	0.125	0	0.00591278	Pxmp2	2.7472E-07	-1.60535688	0.066	0.182
Casp4	2.4928E-07	6.04730972	0.125	0	0.00591278	Smim20	2.9783E-07	-1.13787961	0.135	0.286
Adams9	2.7286E-07	2.14293055	0.33	0.156	0.006472	Dab2	3.085E-07	-1.29917171	0.127	0.271
Galnt3	2.8889E-07	1.8445101	0.293	0.12	0.00685211	Odc1	3.2525E-07	-1.10599145	0.146	0.302
Lgals3bp	2.9278E-07	2.98552932	0.17	0.026	0.00694451	Gcgr	3.4847E-07	-1.28417439	0.111	0.255
Stxbp1	3.1013E-07	1.84776461	0.204	0.047	0.00735603	Acsl3	3.5424E-07	-1.30941477	0.136	0.281
Prdx4	3.2172E-07	2.75310361	0.185	0.036	0.00763084	Xylb	3.7481E-07	-1.64021911	0.047	0.151
Gm7030	3.4308E-07	5.38329743	0.123	0	0.0081375	Hlf	3.9502E-07	-1.38924413	0.121	0.266
Rbl1	3.4544E-07	2.47306277	0.179	0.031	0.00819349	Gm6712	4.0236E-07	-1.14836435	0.139	0.286
Gm	3.7363E-07	1.69507184	0.293	0.12	0.00886208	Cdca7l	4.2447E-07	-1.37457587	0.062	0.177
Havcr1	4.0231E-07	5.71975244	0.121	0	0.00954249	mt-Nd6	4.2832E-07	-1.8817997	0.055	0.161
AC135964.2	4.2297E-07	3.54566489	0.174	0.031	0.0100325	Gsta4	4.4605E-07	-1.57286477	0.063	0.177
Ptpn12	4.2871E-07	1.10586987	0.445	0.25	0.01016854	Hnf4a	5.1568E-07	-1.36473619	0.059	0.172
Runx1	4.7165E-07	5.98266985	0.12	0	0.01118701	Bcar3	5.2866E-07	-1.00520104	0.29	0.453
Hip1	4.9365E-07	2.49511634	0.166	0.026	0.01170894	Ror2	5.3206E-07	-2.16941535	0.059	0.167
Pdlim7	5.1109E-07	3.98164419	0.139	0.01	0.01212263	Gm45846	5.805E-07	-1.48616492	0.074	0.193
Relb	5.4219E-07	2.53508231	0.174	0.031	0.01286012	Ptgs1	5.8835E-07	-1.6288124	0.062	0.172
Gm48749	5.5278E-07	5.79677148	0.119	0	0.01311141	Gm17767	6.0919E-07	-1.55685266	0.049	0.151
Ankrd45	5.5452E-07	1.71930321	0.231	0.068	0.01315257	Scn4b	6.3859E-07	-1.21749188	0.152	0.297
lsg15	6.1509E-07	3.89052012	0.137	0.01	0.01458934	Stard10	6.7763E-07	-1.08221485	0.197	0.354
Lrrc4	6.167E-07	1.43525649	0.352	0.172	0.01462748	Fabp3	6.8845E-07	-1.04662315	0.166	0.318
Tmem252	6.2306E-07	2.65325562	0.165	0.026	0.0147784	Dlg3	6.9505E-07	-1.28963141	0.141	0.286
Gsap	6.5525E-07	2.55988969	0.173	0.031	0.01554194	Calm4	7.4191E-07	-1.54875468	0.075	0.193
Tgm2	7.0553E-07	2.51850884	0.193	0.047	0.01673444	Iscu	7.821E-07	-1.31836181	0.169	0.318
Il13ra1	7.1025E-07	1.47560376	0.311	0.135	0.01684633	Klf15	9.1574E-07	-1.29975677	0.107	0.24
Csrp1	7.6045E-07	1.51451399	0.27	0.099	0.01803722	Frmf4a	9.1799E-07	-1.37447884	0.051	0.156
Rpl18	7.6642E-07	1.09984381	0.538	0.385	0.01817871	Hexdc	1.068E-06	-1.24819899	0.111	0.245
Hs3st1	7.8257E-07	3.41707705	0.145	0.016	0.01856171	Mob2	1.1351E-06	-1.02800488	0.228	0.391
Rnf114	7.8335E-07	1.33187347	0.38	0.208	0.01858029	Lpin1	1.1639E-06	-1.22066667	0.092	0.219
Ar14c										

Gm44686	1.0642E-06	1.55059165	0.335	0.167	0.02524289
1810034E14R	1.0794E-06	1.78398077	0.315	0.151	0.02560135
Prkcq	1.0815E-06	3.48627324	0.133	0.01	0.02565191
Krt7	1.1067E-06	1.29049249	0.358	0.182	0.02624873
Syn2	1.1251E-06	1.70949785	0.273	0.109	0.02668671
Ccl8	1.2176E-06	5.84700983	0.112	0	0.02887953
Cacna1h	1.4248E-06	5.36986933	0.111	0	0.0337938
Rps5	1.4522E-06	1.06714844	0.451	0.266	0.03444474
Tpm1	1.4535E-06	1.67801968	0.266	0.104	0.03447513
Gm16599	1.4783E-06	1.10015278	0.476	0.302	0.03506476
Rps10	1.4972E-06	1.27383545	0.375	0.198	0.03551097
Maml1	1.4997E-06	1.07129275	0.413	0.229	0.03557022
Fstl1	1.5215E-06	3.54910145	0.139	0.016	0.0360887
Mmp7	1.6668E-06	5.91127715	0.109	0	0.03953414
Vars	1.8487E-06	1.9860631	0.203	0.057	0.04385033
Psme2	1.9494E-06	5.22956122	0.108	0	0.04623774
Coq8b	2.0083E-06	1.43271051	0.285	0.12	0.04763382
Msrb1	2.1004E-06	1.280797	0.322	0.151	0.04981925

Grsf1	1.5797E-06	-1.03408397	0.161	0.312
Slc35g1	1.8384E-06	-1.2203254	0.144	0.286
Abhd3	1.9281E-06	-1.83959647	0.069	0.177
Ndufs6	2.0819E-06	-1.13385192	0.165	0.312
Tkfc	2.1069E-06	-1.77972871	0.046	0.141

Table S2: Results from differential gene expression TCMR vs. Control

Distal convoluted tubules						*This Fold Change was calculated between [BALB/c to C57BL/6] and [BALB/c to BALB/c]					
Gene upr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj	Gene downr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj
H2-K1	4.409E-117	5.86050244	0.995	0.102	1.046E-112	Klhl3	6.3486E-61	-1.43267793	0.836	0.987	1.5058E-56
B2m	6.169E-115	5.52264428	0.99	0.145	1.463E-110	Gm26870	1.986E-55	-5.66865057	0.023	0.548	4.7107E-51
Igfbp1	1.058E-113	10.6124629	0.956	0.007	2.51E-109	Cables1	2.7964E-49	-2.69959021	0.258	0.759	6.6329E-45
H2-D1	1.901E-112	5.07150239	0.984	0.162	4.509E-108	Slc16a7	3.8733E-48	-1.32484401	0.89	1	9.1871E-44
Spp1	3.004E-100	3.010465	0.995	0.746	7.1259E-96	Pvalb	1.3784E-42	-2.47291695	0.274	0.743	3.2694E-38
Cd74	2.0307E-97	5.51887852	0.906	0.079	4.8167E-93	Trpm6	1.5098E-40	-1.44290372	0.723	0.947	3.5811E-36
Ly6a	5.9242E-91	3.59975568	0.943	0.297	1.4052E-86	Prkd1	2.0979E-37	-1.76503481	0.705	0.917	4.9759E-33
Stat1	8.1204E-86	6.08629143	0.83	0.059	1.9261E-81	Slc8a1	1.5423E-36	-1.94917926	0.692	0.941	3.6583E-32
Tmsb4x	1.2687E-73	3.35707849	0.898	0.284	3.0091E-69	Sgms2	1.4041E-34	-1.25835581	0.859	0.983	3.3305E-30
Irgm1	1.4709E-63	5.25453266	0.687	0.043	3.4889E-59	Defb1	1.4812E-31	-1.27742671	0.624	0.904	3.5132E-27
H2-Ab1	6.7492E-62	5.24094352	0.668	0.033	1.6008E-57	Kalrn	1.7264E-31	-1.39316789	0.507	0.865	4.0948E-27
H2-Eb1	5.2573E-61	7.19500657	0.632	0.01	1.247E-56	Slc22a23	6.6077E-31	-1.39613503	0.533	0.861	1.5673E-26
Psmb8	7.7974E-60	8.31552171	0.616	0.003	1.8495E-55	Cdk14	2.7458E-30	-1.30724916	0.674	0.924	6.5128E-26
Gbp2b	1.1826E-58	8.43882375	0.608	0.003	2.805E-54	Egfr	2.6769E-29	-2.06464739	0.721	0.901	6.3493E-25
Gbp7	1.3193E-56	5.57275807	0.627	0.033	3.1292E-52	Esrrb	2.15E-27	-1.33149076	0.614	0.865	5.0996E-23
Ubd	1.9997E-53	8.09964123	0.567	0.003	4.743E-49	Pde7b	3.2922E-23	-1.13034969	0.666	0.901	7.8088E-19
Nlrc5	2.6601E-53	5.03549706	0.603	0.03	6.3095E-49	Ppp1r1a	1.4685E-22	-1.16821215	0.493	0.809	3.4832E-18
H2-Aa	3.6445E-52	5.14795219	0.593	0.026	8.6443E-48	Tox3	1.0395E-21	-1.03760556	0.721	0.908	2.4656E-17
Gm16685	4.0948E-51	3.16726656	0.71	0.142	9.7124E-47	Kl	8.035E-21	-1.16536416	0.608	0.855	1.9058E-16
Ly6e	3.7594E-50	3.26403672	0.684	0.122	8.917E-46	De30024D03Ri	3.4918E-19	-1.40049623	0.311	0.627	8.2823E-15
H2-Q4	1.2953E-49	5.18733107	0.564	0.02	3.0722E-45	Gm32569	1.2456E-18	-1.11737316	0.548	0.789	2.9544E-14
Tap1	1.0397E-47	6.28973266	0.53	0.01	2.466E-43	Slc34a1	1.2142E-17	-1.58899215	0.188	0.495	2.88E-13
Gm26917	2.4957E-45	1.6151013	0.935	0.736	5.9196E-41	Gm2115	2.1077E-17	-2.29658023	0.102	0.363	4.9992E-13
Infsf10	1.184E-43	3.47284306	0.616	0.109	2.8083E-39	Fnipt2	2.4587E-17	-1.00538422	0.392	0.696	5.8319E-13
Lrgm2	2.3194E-42	5.08226943	0.509	0.026	5.5013E-38	Pdcd4	3.4143E-17	-1.85215568	0.131	0.413	8.0983E-13
Tapbp	2.5899E-41	3.20148903	0.601	0.109	6.143E-37	Asb11	5.5982E-17	-3.23065674	0.037	0.254	1.3278E-12
H2-T23	1.4884E-40	4.72048599	0.496	0.026	3.5304E-36	Fam214a	7.7187E-17	-1.17489573	0.475	0.733	1.8308E-12
Id2	5.8374E-40	2.54440029	0.702	0.231	1.3846E-35	Klhl24	1.7319E-16	-1.4016149	0.235	0.538	4.108E-12
Pigr	1.814E-39	2.50528318	0.671	0.175	4.3026E-35	5330417C22Ri	2.745E-16	-1.8611085	0.235	0.492	6.5108E-12
Wfdc2	6.4751E-38	1.63868363	0.859	0.508	1.5358E-33	Fgf9	3.219E-16	-1.37172463	0.352	0.627	7.7352E-12
Parp14	6.5853E-37	4.36638081	0.483	0.04	1.562E-32	Gm49272	3.862E-16	-1.68981579	0.146	0.422	9.1603E-12
Tmem176a	1.614E-36	2.00743903	0.773	0.333	3.8284E-32	Tef	3.9503E-16	-1.39976763	0.238	0.531	3.9696E-12
Actb	1.0626E-35	1.87804454	0.83	0.475	5.2503E-31	Cndc3	1.4021E-15	-1.24350173	0.326	0.604	3.3258E-11
Psmb9	6.7952E-35	5.92111564	0.415	0.01	1.6117E-30	Top3b	2.3163E-15	-1.07590379	0.454	0.726	5.494E-11
Gm4951	6.425E-34	9.03350141	0.389	0	1.524E-29	Gatm	4.9242E-15	-2.39537368	0.05	0.264	1.168E-10
Slc25a30	4.0919E-33	1.88257498	0.836	0.591	9.7055E-29	Fbxl20	2.4776E-14	-1.14506885	0.266	0.551	5.8766E-10
Irf1	6.3245E-33	4.65246563	0.436	0.036	1.5001E-28	Nr1d2	4.278E-14	-1.18830995	0.319	0.581	1.0147E-09
Gm12216	6.6476E-33	2.41511208	0.629	0.205	1.5768E-28	Ggnbp1	4.9268E-14	-1.77568255	0.146	0.386	1.1686E-09
Tap2	6.9862E-33	3.41527303	0.483	0.069	1.657E-28	Gm16010	7.6243E-14	-2.46270441	0.044	0.238	1.8084E-09
Gls	7.4175E-33	1.25675869	0.963	0.888	1.7594E-28	Miox	9.4092E-14	-1.84676031	0.128	0.373	2.2318E-09
Cd52	1.5606E-32	7.04585911	0.381	0.003	3.7017E-28	Mertk	1.1664E-13	-1.28587654	0.308	0.584	2.7667E-09
Ifitm3	2.3926E-32	4.87027188	0.41	0.02	5.6751E-28	Crebrf	4.2557E-13	-1.26109269	0.274	0.531	1.0094E-08
Olfir56	4.8934E-32	6.74781637	0.381	0.007	1.1607E-27	Tbxas1	1.5627E-12	-1.76913329	0.188	0.419	3.7065E-08
Bst2	7.2458E-32	4.37201329	0.42	0.03	1.7186E-27	Sgsm1	4.9002E-12	-1.56228467	0.149	0.373	1.1623E-07
Herc6	1.1521E-29	2.98067015	0.512	0.119	2.7327E-25	Fam81a	5.8412E-12	-1.08678184	0.279	0.521	1.3855E-07
Fth1	2.5075E-29	1.01794607	0.977	0.861	5.9475E-25	Gabarapl1	8.3351E-12	-1.03006911	0.54	0.716	1.977E-07
Clu	6.4478E-29	2.04841613	0.702	0.35	1.5293E-24	Galm	8.5584E-12	-1.3249638	0.266	0.492	2.03E-07
Tpt1	1.2102E-28	1.27580576	0.869	0.551	2.8705E-24	Lrrcc6	1.0855E-11	-1.28530403	0.256	0.482	2.5747E-07
Naaladl2	2.056E-28	1.48786884	0.778	0.436	4.8766E-24	Rmnd5a	1.7261E-11	-1.20328394	0.185	0.416	4.0941E-07
AW112010	9.8089E-28	8.48145049	0.326	0	2.3266E-23	Pdzrn3	2.5266E-11	-1.72759234	0.133	0.34	5.9929E-07
Gbp2	2.497E-26	6.70246221	0.319	0.003	5.9227E-22	Aebp1	4.9493E-11	-1.33439206	0.167	0.386	1.1739E-06
Ccl5	2.7293E-26	6.12630745	0.324	0.007	6.4735E-22	Col27a1	5.3533E-11	-1.40254366	0.175	0.396	1.2697E-06
Cd274	2.8518E-26	5.39320805	0.345	0.02	6.7643E-22	Slc5a2	6.2382E-11	-2.42174225	0.026	0.172	1.4796E-06
H2-T22	5.1919E-26	3.21911971	0.413	0.059	1.2315E-21	Mxi1	6.5644E-11	-1.69008064	0.144	0.347	1.557E-06
Rnf213	1.9877E-25	1.94407982	0.64	0.304	4.7145E-21	Cntn3	9.2463E-11	-2.28919399	0.076	0.251	2.1931E-06
Tmem176b	8.6181E-25	1.7494092	0.653	0.274	2.0441E-20	Dnase1	1.124E-10	-2.82190369	0.029	0.172	2.6659E-06
Stat2	1.1421E-24	2.92255514	0.446	0.099	2.7089E-20	Ybx2	1.1405E-10	-1.70399409	0.084	0.267	2.7051E-06
Rpl9-ps6	1.5778E-24	1.71231124	0.634	0.284	3.7423E-20	Acaa1b	1.4554E-10	-2.628437	0.031	0.175	3.4522E-06
Lcn2	3.1914E-24	4.96107072	0.326	0.02	7.5696E-20	Gpam	1.4964E-10	-1.77804325	0.099	0.287	3.5492E-06
Oasl2	5.4221E-24	5.4989807	0.305	0.01	1.2861E-19	Irs2	2.4923E-10	-1.77149902	0.104	0.294	5.9115E-06
Rps20	1.0363E-22	1.43975465	0.731	0.439	2.4579E-18	Ass1	2.5747E-10	-1.40282683	0.117	0.32	6.107E-06
Rplp1	2.9466E-22	1.4636209	0.692	0.356	6.9891E-18	Ces1d	3.2326E-10	-2.3654045	0.018	0.149	7.6674E-06
Nuak2	3.0796E-22	2.10680844	0.59	0.264	7.3045E-18	Rgs11	3.9981E-10	-1.48403502	0.123	0.317	9.4831E-06
Cxcl10	5.8739E-22	8.20425509	0.264	0	1.3932E-17	Dusp15	5.6221E-10	-2.85054852	0.031	0.168	1.3335E-05
Gm12185	7.5254E-22	6.71670173	0.269	0.003	1.7849E-17	Wfdc15b	6.0873E-10	-1.39867588	0.264	0.459	1.4438E-05
Rps29	8.5361E-22	1.33323532	0.747	0.455	2.0247E-17	Cybsrl	8.8251E-10	-1.21415798	0.238	0.439	2.0932E-05
H2-Q7	1.3962E-21	6.38145444	0.266	0.003	3.3117E-17	Rab27a	9.7455E-10	-1.04133969	0.35	0.571	2.3115E-05
Rpl32	3.3327E-21	1.68088382	0.64	0.3	7.9049E-17	Gm42697	1.0775E-09	-1.80033408	0.089	0.261	2.5556E-05
Calr	8.7718E-21	1.88412817	0.551	0.241	2.0806E-16	Slc5a12	1.2898E-09	-2.500686	0.021	0.145	3.0594E-05
Tmsb10	1.2761E-20	3.40216242	0.329	0.043	3.0268E-16	Ranbp3l	1.3457E-09	-1.31746573	0.146	0.34	3.1919E-05
Pla2g16	2.05E-20	2.92379186	0.358	0.063	4.8625E-16	Pamr1	1.5683E-09	-1.34143005	0.151	0.353	3.7199E-05
F830016B08R	2.4097E-20	8.51349505	0.245	0	5.7155E-16	Isyna1	2.3936E-09	-1.52244001	0.112	0.294	5.6774E-05
Lyz2	4.9302E-20	4.74861162	0.269	0.013	1.1694E-15	Cwh43	4.783E-09	-1.11337514	0.332	0.531	0.00011345
Gbp3	5.679E-20	6.3123305	0.248	0.003	1.347E-15	Ptgs1	5.2332E-09	-2.69641248	0.029	0.152	0.00012413
Gm4841	1.9485E-19	8.12456883	0.235	0	4.6216E-15	Atpgv1c2	6.5269E-09	-1.67010463	0.084	0.244	0.00015481
Tgtp2	3.2738E-19	7.66651407	0.232	0	7.7652E-15	Pdgfr	7.7307E-09	-1.08561016	0.245	0.446	0.00018336
mt-Co3	3.6672E-19	1.02227611	0.898	0.693	8.6982E-15	Depdc1b	8.8586E-09	-1.49950493	0.089	0.254	0.00021012
Gm6034	5.736E-19	4.73973812	0.261	0.017	1.3605E-14	Jmy	1.0212E-08	-1.13592805	0.157	0.347	0.00024222
Psmb10	2.1478E-18	3.1822609	0.292	0.033	5.0943E-14	Prox1	1.0793E-08	-1.00109273	0.285	0.485	0.00025599
Napsa	9.7471E-18	1.17792156	0.775	0.515	2.3119E-13	Natb1f1	1.1823E-08	-1.47442017	0.097	0.261	0.00028043
Gbp8	1.1915E-17										

Gm10073	8.0998E-16	1.30825533	0.637	0.38	1.9212E-11	Fbxo32	1.2095E-07	-1.54911954	0.047	0.172	0.00286883
Rasgrp1	8.1664E-16	4.74806749	0.214	0.01	1.937E-11	Mettl27	1.9148E-07	-1.79827423	0.063	0.191	0.00454162
Lgals3	1.7079E-15	2.21521353	0.376	0.116	4.0509E-11	C130050O18Ri	1.9421E-07	-2.08660056	0.06	0.185	0.00460635
Ifi27	3.9788E-15	2.3091047	0.352	0.102	9.4374E-11	Srl	2.1204E-07	-1.3301811	0.128	0.284	0.00502948
C1qa	4.5746E-15	5.76787406	0.191	0.003	1.0851E-10	Fam107a	2.4011E-07	-1.18328239	0.188	0.353	0.00569518
Wdr89	5.7448E-15	1.218777	0.642	0.389	1.3626E-10	Hbp1	3.9524E-07	-1.10251076	0.17	0.34	0.00937458
Ddx58	1.0849E-14	1.87446647	0.402	0.145	2.5732E-10	Crocc	4.3339E-07	-1.28342133	0.133	0.287	0.01027948
Rps19	1.4258E-14	1.50641923	0.527	0.274	3.3819E-10	Gm15848	5.3903E-07	-1.60537743	0.102	0.244	0.01278534
Ddx60	1.4343E-14	4.22249318	0.217	0.02	3.402E-10	Gm6277	5.8771E-07	-1.35414231	0.144	0.294	0.01393985
Patl2	1.8301E-14	3.87717475	0.217	0.02	4.3408E-10	Cntd1	6.4143E-07	-1.25362996	0.133	0.281	0.01521406
S100a10	2.1683E-14	2.40212278	0.313	0.079	5.1429E-10	Mgam	8.0481E-07	-1.20552352	0.146	0.3	0.01908929
Acadl	2.3649E-14	1.18165299	0.64	0.373	5.6094E-10	Slc9a2	8.0919E-07	-1.00798397	0.219	0.38	0.0191933
Piezol1	3.6183E-14	1.29863127	0.587	0.307	8.5822E-10	Maob	1.1351E-06	-1.65602829	0.078	0.205	0.02692428
C3	7.6598E-14	3.32710938	0.238	0.036	1.8168E-09	Gm48779	1.1865E-06	-2.14742402	0.034	0.135	0.02814345
Sh3bgrl3	1.4217E-13	2.28080204	0.305	0.079	3.3722E-09	Zfp395	1.3209E-06	-1.30751228	0.12	0.264	0.03132931
Xaf1	1.5185E-13	4.186291	0.193	0.013	3.6018E-09	Slc22a8	1.4625E-06	-1.89391717	0.037	0.139	0.03468909
Il7	2.043E-13	1.94545695	0.287	0.066	4.8459E-09	Gm4593	1.4733E-06	-1.5394439	0.104	0.238	0.03494633
Psmel	3.9279E-13	1.81064044	0.368	0.132	9.3167E-09	Gm32647	1.5257E-06	-1.53732058	0.128	0.267	0.03618715
Parp10	5.8173E-13	2.32124524	0.295	0.076	1.3798E-08	Mir670hg	1.6962E-06	-2.27630423	0.052	0.158	0.04023206
Rpl21	9.9477E-13	3.68584766	0.201	0.023	2.3595E-08	Hdac5	1.9653E-06	-1.52215088	0.057	0.172	0.04661489
Dysf	1.3018E-12	1.88161324	0.389	0.152	3.0879E-08	Tmem8	2.0707E-06	-1.43593061	0.065	0.185	0.04911529
Ly75	2.0245E-12	2.30577975	0.305	0.092	4.802E-08						
Akt3	2.4179E-12	1.27490038	0.501	0.257	5.7351E-08						
Rpl14	2.5096E-12	1.24315176	0.572	0.333	5.9526E-08						
C4b	2.5857E-12	6.85163495	0.149	0	6.1329E-08						
Rps16	3.2651E-12	1.47712925	0.452	0.211	7.7444E-08						
Tspo	4.2702E-12	1.4235283	0.475	0.238	1.0128E-07						
S100a6	5.1055E-12	2.03609105	0.305	0.092	1.211E-07						
Heph	1.1225E-11	1.17261519	0.52	0.281	2.6624E-07						
Isg15	1.237E-11	4.06928942	0.157	0.007	2.9339E-07						
Tapbp1	1.3189E-11	4.3491873	0.162	0.01	3.1283E-07						
Rtp4	1.9134E-11	3.90984667	0.167	0.013	4.5385E-07						
Dock10	1.9306E-11	1.69192759	0.384	0.158	4.5791E-07						
Ifi44	2.746E-11	6.64448789	0.136	0	6.5132E-07						
Gbp5	2.9426E-11	5.32063735	0.144	0.003	6.9795E-07						
Rps27a	3.0199E-11	1.18585107	0.54	0.3	7.163E-07						
Ctss	4.421E-11	5.2301421	0.141	0.003	1.0486E-06						
C1qb	4.421E-11	5.31582859	0.141	0.003	1.0486E-06						
Rps11	4.4248E-11	1.49539301	0.42	0.198	1.0495E-06						
Lgals1	7.7842E-11	2.80105189	0.222	0.05	1.8463E-06						
Rps24	8.605E-11	1.02836049	0.601	0.403	2.041E-06						
Ifit2	8.6694E-11	3.02350602	0.185	0.026	2.0563E-06						
Birc3	9.6061E-11	1.82228349	0.352	0.145	2.2785E-06						
Cd47	1.057E-10	1.14805191	0.507	0.287	2.507E-06						
Plac8	1.0898E-10	4.570558	0.144	0.007	2.585E-06						
Nsun7	1.6956E-10	2.45664934	0.235	0.059	4.0217E-06						
Socs1	1.78E-10	6.52080541	0.125	0	4.222E-06						
Txn1	2.6322E-10	1.31124196	0.42	0.201	6.2433E-06						
Rpl4	2.792E-10	1.44580596	0.394	0.188	6.6224E-06						
Rpl17	3.2813E-10	1.31298741	0.467	0.257	7.7829E-06						
Havcr1	3.3896E-10	4.34786268	0.144	0.01	8.0397E-06						
Rps23	3.5811E-10	1.16234117	0.543	0.34	8.494E-06						
Nfkbi2	4.3851E-10	1.4635358	0.405	0.195	1.0401E-05						
Zbp1	4.5012E-10	6.51350785	0.12	0	1.0676E-05						
Rpl27-ps3	4.8343E-10	1.01872469	0.559	0.343	1.1466E-05						
Samhd1	4.8566E-10	2.06922516	0.287	0.102	1.1519E-05						
Gm20663	5.1176E-10	3.33488493	0.185	0.033	1.2138E-05						
Ppa1	5.321E-10	2.58162021	0.191	0.036	1.2621E-05						
Cyba	5.3553E-10	1.4531327	0.423	0.224	1.2702E-05						
Rplp0	6.1084E-10	1.09636579	0.561	0.347	1.4489E-05						
Calml1	6.3019E-10	1.41911854	0.394	0.191	1.4947E-05						
Rbl1	6.8536E-10	3.59836006	0.159	0.02	1.6256E-05						
Hbb-bs	7.1596E-10	5.41912608	0.125	0.003	1.6982E-05						
Rps9	8.5009E-10	1.12584492	0.556	0.376	2.0163E-05						
Spns2	8.6495E-10	3.32134817	0.159	0.02	2.0516E-05						
Dynll1	9.3534E-10	1.64080577	0.305	0.116	2.2185E-05						
Mgp	1.0398E-09	3.12347941	0.146	0.013	2.4663E-05						
Col5a2	1.1063E-09	3.43210985	0.264	0.092	2.624E-05						
Ltc4s	1.1706E-09	2.15725865	0.253	0.079	2.7765E-05						
Idnk	1.187E-09	1.54792272	0.332	0.135	2.8154E-05						
Epsti1	1.2724E-09	4.65407563	0.123	0.003	3.018E-05						
Rab5c	1.3883E-09	1.38146321	0.384	0.185	3.293E-05						
Unc93b1	1.5288E-09	1.76432594	0.269	0.089	3.6262E-05						
Apoe	2.4791E-09	1.42315901	0.358	0.162	5.8801E-05						
Clec2d	2.9529E-09	1.42660791	0.449	0.261	7.0041E-05						
Gm7030	3.0043E-09	3.18783444	0.146	0.017	7.1259E-05						
Jun	3.0535E-09	2.55629229	0.193	0.043	7.2427E-05						
Hmgcs1	3.246E-09	1.35438597	0.538	0.35	7.6991E-05						
Rpl22	3.8481E-09	1.20514628	0.454	0.264	9.1272E-05						
Tubb5	3.872E-09	2.69147452	0.18	0.036	9.184E-05						
Tmbim4	4.0254E-09	1.07395303	0.483	0.274	9.5479E-05						
Col1a2	4.4907E-09	6.5031968	0.107	0	0.00010652						
Tyrobp	4.4907E-09	6.58807628	0.107	0	0.00010652						
Pfn1	4.6839E-09	1.29865552	0.42	0.231	0.0001111						
Pycard	4.802E-09	2.17662177	0.222	0.063	0.0001139						
AU020206	4.9763E-09	3.79948932	0.123	0.007	0.00011803						
Adgrg3	6.6679E-09	2.23268047	0.219	0.063	0.00015816						
Rpl18	6.7593E-09	1.00861872	0.491	0.29	0.00016032						
Coro1a	7.0916E-09	6.25380911	0.104	0	0.00016821						
Tmem45b	7.6092E-09	2.45379392	0.172	0.033	0.00018048						
Xdh	7.787E-09	3.86636634	0.12	0.007	0.0001847						
Atp11a	8.5233E-09	1.01496434	0.53	0.35	0.00020216						
Ifi44l	8.8524E-09	3.52017387	0.133	0.013	0.00020997						
Cstb	1.0099E-08	1.67389596	0.308	0.139	0.00023955						
Pdss1	1.1072E-08	1.19941851	0.373	0.175	0.00026262						
Slc25a21	1.1492E-08	1.5574455	0.389	0.208	0.00027258						
C1qc	1.1886E-08	4.60620866	0.11	0.003	0.00028191						
Rps4x	1.2224E-08	1.10990399	0.433	0.241	0.00028994						
H2-DMa	1.2412E-08	4.47499418	0.11	0.003	0.00029439						

Rpl39	1.2469E-08	1.33187301	0.36	0.172	0.00029576
Rpl26	1.2471E-08	1.18951314	0.433	0.244	0.00029579
Rps5	1.2822E-08	1.23738359	0.392	0.195	0.00030413
Tcd2	1.3188E-08	1.10936789	0.457	0.271	0.00031281
Vim	1.3802E-08	3.60099412	0.131	0.013	0.00032737
Gm10036	1.4012E-08	1.1990118	0.446	0.261	0.00033234
Il18bp	1.8097E-08	2.45837159	0.172	0.036	0.00042924
Myof	1.8571E-08	1.25714143	0.454	0.277	0.00044048
Gm32857	2.0494E-08	2.40966778	0.136	0.017	0.00048609
Rps3	2.1847E-08	1.0449926	0.473	0.294	0.0005182
Rps25	2.3016E-08	1.27942142	0.407	0.231	0.00054592
Dtx3l	2.3214E-08	2.93226721	0.141	0.02	0.00055061
Col18a1	2.5648E-08	1.16858174	0.42	0.234	0.00060835
Pdia3	3.2131E-08	1.00503743	0.475	0.277	0.00076212
Rps15	3.6683E-08	1.01530154	0.548	0.386	0.00087009
Fam107b	3.8533E-08	1.04734632	0.473	0.294	0.00091396
Tacstd2	3.9489E-08	1.63341287	0.279	0.116	0.00093663
Tmem140	4.5668E-08	2.70800825	0.159	0.033	0.00108319
Plau	4.7116E-08	2.21619817	0.198	0.056	0.00111754
Arhgap8	5.6511E-08	2.12541108	0.183	0.046	0.00134037
Adams6	7.3288E-08	1.17313456	0.41	0.241	0.00173833
Ifih1	1.0071E-07	2.0649132	0.18	0.046	0.00238874
Hspa5	1.0929E-07	1.0763943	0.42	0.241	0.00259214
Sqle	1.2875E-07	1.73692215	0.24	0.092	0.00305374
Lgals3bp	1.5082E-07	3.69212204	0.11	0.01	0.00357734
Fbxw17	1.5143E-07	2.02266876	0.204	0.066	0.00359177
4930599N23R	1.7372E-07	1.31534296	0.282	0.119	0.00412044
Tinag	1.9931E-07	1.00220927	0.46	0.284	0.00472753
Pabpc1	2.1874E-07	1.10238695	0.376	0.211	0.00518835
Efemp1	2.2694E-07	1.6063965	0.232	0.086	0.00538275
4932411K12R	3.3566E-07	1.91897087	0.279	0.129	0.00796146
Arf1	3.8059E-07	1.07148438	0.402	0.238	0.00902723
Pea15a	3.873E-07	1.02199651	0.423	0.261	0.00918627
Lurap1	3.9775E-07	1.40446222	0.313	0.155	0.00943413
Upp1	4.5152E-07	2.01467693	0.188	0.059	0.01070952
Rnf19b	4.5566E-07	1.68214024	0.209	0.073	0.01080787
4930550C14R	5.0752E-07	1.50400914	0.29	0.139	0.01203778
Ifi27l2a	5.8211E-07	3.62707008	0.102	0.01	0.01380714
Parp12	6.1737E-07	1.12353766	0.386	0.231	0.01464344
Kcnk1	6.1806E-07	1.18176632	0.368	0.205	0.01465983
Pigt	6.2523E-07	1.58466344	0.277	0.132	0.01482993
Rps14	7.5768E-07	1.05397595	0.402	0.231	0.01797134
Acot9	8.4143E-07	1.01428716	0.355	0.185	0.01995782
Pfdn5	8.9824E-07	1.08957197	0.373	0.215	0.02130546
Car12	1.1418E-06	1.07948902	0.397	0.241	0.02708161
Serpinb9	1.1675E-06	2.04158878	0.159	0.043	0.0276927
Rab19	1.2341E-06	2.33795768	0.136	0.03	0.02927275
Samd9l	1.3856E-06	1.08127046	0.446	0.317	0.03286548
Gabarap	1.4687E-06	1.22026336	0.363	0.215	0.03483695
Ywhag	1.4775E-06	1.21644086	0.332	0.175	0.03504477
H2afz	1.7637E-06	1.51319642	0.258	0.119	0.04183379
Adar	2.0108E-06	1.13550896	0.326	0.172	0.04769422
Rps10	2.0176E-06	1.00730911	0.392	0.234	0.04785461

Table S2: Results from differential gene expression TCMR vs. Control

Connecting tubules

*This Fold Change was calculated between [C57BL/6 to BALB/c] and [C57BL/6 to C57BL/6]

Gene upr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj	Gene downr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj
H2-K1	6.837E-65	5.08346688	1	0.262	1.6217E-60	Gm26870	4.406E-68	-4.6078194	0.033	0.639	1.0451E-63
Ilgp1	1.3785E-64	7.62229438	0.982	0.049	3.2697E-60	Kap	5.507E-53	-2.34443396	0.832	1	1.3062E-48
B2m	1.6659E-61	5.07546573	0.978	0.18	3.9513E-57	Ddp	3.8315E-52	-4.97485138	0.013	0.459	9.088E-48
H2-D1	4.3504E-61	4.93976067	0.98	0.172	1.0319E-56	Slc34a1	1.887E-48	-3.45596401	0.177	0.787	4.4758E-44
Cd74	1.3415E-59	6.29305313	0.951	0.074	3.1819E-55	Wnk1	3.9876E-47	-2.27241769	0.874	1	9.4582E-43
Stat1	2.787E-58	4.74827176	0.958	0.148	6.6104E-54	Miox	4.6001E-46	-3.56373247	0.075	0.607	1.0911E-41
Chd9	2.5817E-55	2.8049883	0.995	0.869	6.1236E-51	Slc8a1	9.0778E-43	-1.92349139	0.987	1	2.1532E-38
Ly6e	1.474E-54	3.97163066	0.951	0.32	3.4961E-50	Slc16a7	2.4612E-40	-1.94739355	0.662	0.951	5.8377E-36
Irgm1	1.8586E-51	4.5884329	0.905	0.123	4.4083E-47	Klhl3	5.4025E-40	-2.26186757	0.601	0.959	1.2814E-35
Ly6a	6.9852E-51	3.44513771	0.973	0.492	1.6568E-46	Slc22a8	1.6971E-39	-5.26372517	0.015	0.369	4.0255E-35
Gbp2	3.7386E-48	7.87064189	0.834	0.008	8.8675E-44	Vdr	1.2494E-34	-1.53453896	0.792	0.992	2.9634E-30
Spp1	3.9789E-45	2.27939799	1	0.893	9.4376E-41	Calb1	1.9828E-34	-1.76333063	0.779	1	4.7029E-30
Irgm2	4.328E-45	5.26879822	0.821	0.033	1.0266E-40	Acsm2	2.3251E-33	-3.60263314	0.064	0.475	5.5149E-29
Tmsb4x	5.1347E-45	3.62024174	0.92	0.311	1.2179E-40	Kl	6.7135E-32	-1.5568242	0.826	0.992	1.5924E-27
H2-Q7	3.6451E-43	7.2643523	0.782	0.008	8.6458E-39	mt-Nd2	1.6709E-31	-1.58189551	0.751	1	3.9633E-27
Nlrc5	6.1676E-42	6.55193876	0.773	0.025	1.4629E-37	Aldob	2.4444E-31	-2.14465567	0.309	0.811	5.7978E-27
Zfp981	5.8687E-41	2.314173	0.985	0.877	1.392E-36	Col4a4	7.0995E-31	-1.21049011	0.881	0.992	1.6839E-26
Psmb8	1.1926E-38	6.58354406	0.739	0.025	2.8288E-34	Lrp2	5.0383E-29	-2.7698379	0.133	0.582	1.195E-24
Parp14	7.8921E-38	4.51375004	0.753	0.033	1.8719E-33	Itpr2	5.7257E-29	-1.48420675	0.66	0.934	1.3581E-24
Ubd	3.4372E-37	8.70746012	0.709	0	8.1528E-33	Syne1	1.026E-28	-1.53993052	0.589	0.943	2.4335E-24
Gbp7	3.9598E-37	4.11378245	0.764	0.057	9.3923E-33	Afm	1.2849E-28	-3.39090577	0.057	0.41	3.0477E-24
Irf1	1.6365E-35	3.59300337	0.762	0.098	3.8817E-31	Ces1d	2.4004E-28	-4.27187737	0.013	0.279	5.6934E-24
H2-Ab1	4.1989E-35	5.5478715	0.709	0.041	9.9594E-31	Akrlc21	1.4421E-27	-2.67694304	0.084	0.475	3.4205E-23
Gbp8	1.2945E-34	7.49721169	0.682	0.008	3.0704E-30	Egf	7.0915E-27	-4.52765891	0.099	0.484	1.682E-22
H2-Aa	4.288E-34	6.60777341	0.682	0.016	1.0171E-29	Mccc1	1.6857E-26	-2.25142875	0.313	0.746	3.9982E-22
Tap1	4.6974E-34	4.65830458	0.713	0.066	1.1142E-29	Gm42418	2.9383E-26	-1.03745446	1	1	6.9694E-22
Olfyl56	8.2831E-34	5.94919696	0.686	0.025	1.9647E-29	Colgalt2	8.4125E-26	-2.41793005	0.166	0.59	1.9954E-21
H2-Q4	2.3184E-33	5.04769238	0.689	0.033	5.499E-29	Slit2	9.6253E-26	-1.44377414	0.839	0.959	2.283E-21
Lcn2	4.4176E-33	9.04327785	0.658	0	1.0478E-28	Bckdhhb	2.087E-25	-1.88640735	0.43	0.82	4.9502E-21
H2-T23	4.8912E-31	4.21990781	0.697	0.098	1.1601E-26	Oxct1	1.4919E-24	-1.21475678	0.729	0.967	3.5386E-20
Tapbp	8.7101E-31	3.07792513	0.781	0.238	2.066E-26	Tdrd3	2.4341E-24	-1.40513751	0.801	0.918	5.7733E-20
H2-Eb1	9.7086E-31	5.3110335	0.658	0.049	2.3028E-26	mt-Nd4	4.6019E-24	-1.40886143	0.806	1	1.0915E-19
Tnfrsf10	1.1184E-30	4.06662448	0.695	0.082	2.6527E-26	Tef	1.1851E-23	-2.03125381	0.203	0.623	2.8109E-19
Psmb9	1.4582E-30	4.71225027	0.662	0.033	3.4588E-26	Vegfd	1.5678E-23	-3.59417816	0.04	0.328	3.7187E-19
Gm42031	2.3301E-30	2.46922712	0.868	0.525	5.5267E-26	Tmem27	1.7787E-23	-2.19291549	0.177	0.598	4.2188E-19
Gm4951	4.515E-30	8.64731677	0.618	0	1.0709E-25	Cyp2a4	2.8114E-23	-5.11723065	0.005	0.205	6.6684E-19
Gm12185	6.5941E-30	6.29084165	0.627	0.016	1.5641E-25	P3h2	3.1669E-23	-1.14431189	0.819	0.975	7.5116E-19
Rnf213	1.441E-29	2.90973228	0.773	0.254	3.418E-25	Atpg6v1c2	1.3293E-22	-3.28425803	0.037	0.311	3.1529E-18
Vmp1	1.236E-28	1.73451203	0.896	0.598	2.9318E-24	Ass1	1.7819E-22	-2.70398332	0.155	0.541	4.2264E-18
Clu	1.5216E-28	2.57579122	0.941	0.721	3.6092E-24	Fbp1	1.9278E-22	-2.82205307	0.082	0.418	4.5725E-18
Gm20663	1.963E-28	7.04556177	0.607	0.016	4.6561E-24	Fut9	2.3281E-22	-3.10898927	0.121	0.492	5.5221E-18
F830016B08R	5.431E-28	6.98439094	0.601	0.016	1.2882E-23	Ugt3a1	2.4749E-22	-5.43824429	0.007	0.205	5.8701E-18
Camk2b	6.6483E-28	4.51824992	0.684	0.148	1.5769E-23	Cpeb3	4.7785E-22	-1.22132073	0.717	0.951	1.1334E-17
Herc6	7.9802E-28	3.96060741	0.66	0.107	1.8928E-23	Pah	5.1792E-22	-3.19136286	0.048	0.336	1.2285E-17
Ccl5	9.5768E-28	8.89419229	0.585	0	2.2715E-23	Shank2	8.7511E-22	-1.25047835	0.629	0.918	2.0757E-17
Oasl2	3.5978E-27	6.28209538	0.585	0.008	8.5337E-23	mt-Nd3	1.9287E-21	-2.77379543	0.106	0.443	4.5747E-17
Bst2	7.3343E-26	5.03888676	0.585	0.025	1.7396E-21	Dnase1	2.0917E-21	-5.91743358	0.004	0.18	4.9613E-17
H2-Q6	1.5797E-25	5.44176469	0.567	0.008	3.7469E-21	Gm32569	3.7974E-21	-1.87929673	0.311	0.705	9.007E-17
Gm16685	2.7851E-25	1.8289311	0.883	0.467	6.606E-21	Tmem116	3.8642E-21	-1.44877419	0.58	0.869	9.1654E-17
Gbp3	5.6772E-25	6.25508064	0.556	0.016	1.3466E-20	Sord	7.0376E-21	-2.42740962	0.154	0.516	1.6693E-16
Cd274	1.859E-24	6.82316405	0.543	0.008	4.4094E-20	Peli2	1.755E-20	-1.4497458	0.656	0.902	4.1626E-16
Samd5	2.5202E-24	6.61062427	0.543	0.008	5.9777E-20	Acacb	2.2635E-20	-1.67423629	0.318	0.713	5.3689E-16
Gm4841	4.8187E-24	6.35265575	0.539	0.008	1.1429E-19	Plekha1	2.94E-20	-1.33516335	0.618	0.91	6.9734E-16
Sh3bgrl3	4.8783E-24	2.55634956	0.739	0.27	1.1571E-19	Cnnm2	3.3189E-20	-1.54985098	0.483	0.852	7.8721E-16
Parp9	1.2855E-23	3.21889105	0.634	0.107	3.049E-19	Rdh16f2	4.425E-20	-4.53701824	0.007	0.189	1.0496E-15
AW112010	2.1216E-23	5.8957268	0.53	0.008	5.0323E-19	Pck1	4.6675E-20	-3.14812554	0.069	0.361	1.1071E-15
Apol6	4.2666E-23	7.63912661	0.514	0	1.012E-18	Slc25a12	7.8726E-20	-1.13138954	0.713	0.959	1.8673E-15
Serp1g	4.5232E-23	5.18461224	0.537	0.025	1.0728E-18	Pdk1	1.493E-19	-1.52108868	0.318	0.713	3.5413E-15
Apoa	7.1641E-23	3.15170018	0.651	0.139	1.6992E-18	Aass	2.2031E-19	-2.54223952	0.088	0.402	5.2256E-15
Nuk2	1.4259E-22	2.89297228	0.673	0.189	3.382E-18	Cms1	2.3187E-19	-1.1563532	0.921	0.975	5.4997E-15
H3f3b	1.513E-22	2.40088846	0.737	0.32	3.5886E-18	Uroc1	3.0061E-19	-2.97001674	0.068	0.352	7.1302E-15
Akt3	2.5519E-22	2.84108442	0.669	0.197	6.053E-18	Mep1a	3.096E-19	-2.3221365	0.099	0.426	7.3434E-15
Trim12a	2.799E-22	2.44557638	0.697	0.221	6.6389E-18	Plekha7	8.7653E-19	-1.05442404	0.757	0.934	2.079E-14
Ptp4a2	3.908E-22	1.86048344	0.819	0.525	9.2693E-18	Ppp1r1a	9.0248E-19	-2.24426827	0.155	0.508	2.1406E-14
Cd24a	4.8378E-22	3.44833443	0.607	0.123	1.1475E-17	Ipce1f	9.3613E-19	-1.22553489	0.667	0.885	2.2204E-14
Lyz2	6.7181E-22	5.71007004	0.506	0.008	1.5935E-17	Gm33543	9.4098E-19	-3.82558884	0.016	0.213	2.2319E-14
Sat1	1.0862E-21	2.23180863	0.75	0.361	2.5764E-17	Slc13a3	9.5236E-19	-4.01176686	0.016	0.213	2.2589E-14
Tap2	1.172E-21	3.45003721	0.589	0.098	2.7799E-17	Mthfrd1	1.1043E-18	-1.60832979	0.364	0.73	2.6192E-14
Spns2	1.7053E-21	3.13945291	0.609	0.123	4.0448E-17	Natf8f1	2.1425E-18	-3.19927912	0.055	0.311	5.0819E-14
Ubb	1.9186E-21	2.02959788	0.804	0.525	4.5506E-17	Lpl	2.3973E-18	-2.22984983	0.183	0.533	5.6863E-14
Tmsb10	1.919E-21	3.67783865	0.565	0.074	4.5517E-17	Col27a1	3.6595E-18	-1.77461397	0.318	0.689	8.68E-14
Cxcl10	3.1568E-21	8.50327524	0.483	0	7.4877E-17	Thrb	1.2541E-17	-1.48358297	0.45	0.779	2.9745E-13
Rps29	3.2569E-21	1.69900648	0.832	0.492	7.725E-17	Nr1d1	3.0214E-17	-3.01326469	0.044	0.279	7.1665E-13
Psmb10	4.5386E-21	4.32566539	0.536	0.057	1.0765E-16	Trpm6	3.7562E-17	-1.55514433	0.537	0.803	8.9093E-13
Krt8	4.9406E-21	3.58611594	0.634	0.189	1.1719E-16	Tln2	5.6243E-17	-1.23657052	0.468	0.82	1.334E-12
Plezo1	6.3359E-21	2.1119035	0.729	0.303	1.5028E-16	Tbc1d14	7.9852E-17	-1.40541848	0.572	0.82	1.894E-12
Gm10073	7.9835E-21	1.99559384	0.761	0.344	1.8936E-16	Cyp2j11	1.2423E-16	-1.60951633	0.406	0.713	2.9465E-12
Ifitm3	9.0994E-21	4.71609903	0.512	0.033	2.1583E-16	Imnt	1.3972E-16	-3.70907826	0.015	0.189	3.3141E-12
Ezr	4.5386E-20	1.53348809	0.83	0.566	1.0765E-15	D630024D03R	1.6924E-16	-1.74510677	0.201	0.549	4.0141E-12
Psme1	4.8388E-20	3.2106389	0.576	0.131	1.1477E-15	Slc5a2	1.7317E-16	-3.60272641	0.031	0.238	4.1073E-12
Syne2	6.5686E-20	1.06298436	0.965	0.918							

S100a10	2.6723E-17	2.7767802	0.603	0.213	6.3385E-13	Map2k6	1.0141E-14	-2.18172022	0.119	0.402	2.4054E-10
Plac8	3.5696E-17	7.27841481	0.41	0	8.4667E-13	Dock8	1.2754E-14	-1.04689039	0.693	0.902	3.0251E-10
Ddx58	3.7369E-17	2.32270247	0.594	0.156	8.8636E-13	Gm10801	1.3341E-14	-6.52771356	0	0.107	3.1643E-10
Wfdc2	4.8189E-17	1.60951253	0.872	0.656	1.143E-12	Gm49272	1.3734E-14	-3.88285104	0.013	0.164	3.2576E-10
Zfp36l1	5.4643E-17	2.69580117	0.567	0.164	1.2961E-12	Fam81a	1.7187E-14	-2.36648856	0.102	0.369	4.0766E-10
Rpl32	5.4776E-17	1.62921243	0.762	0.443	1.2992E-12	Ybx2	1.8117E-14	-2.20932494	0.11	0.385	4.2971E-10
Pfn1	5.9243E-17	2.24475501	0.636	0.27	1.4052E-12	Gpx3	1.9296E-14	-1.01197607	0.934	0.992	4.5768E-10
Pea15a	5.9602E-17	2.364861	0.607	0.197	1.4137E-12	Slc22a6	2.2072E-14	-2.65895818	0.048	0.262	5.2535E-10
Rps4x	6.1907E-17	2.18202493	0.653	0.303	1.4684E-12	Esrrb	2.3012E-14	-2.39689857	0.144	0.426	5.4582E-10
Cldn7	7.7824E-17	2.4761645	0.59	0.197	1.8459E-12	Slc43a2	2.5018E-14	-1.49575699	0.457	0.721	5.9341E-10
Tgtp2	1.0647E-16	6.91332292	0.4	0	2.5254E-12	Hadh	6.8754E-14	-1.88718216	0.218	0.516	1.6308E-09
Rtn4	1.3847E-16	2.0444136	0.733	0.467	3.2844E-12	Ddo	7.2837E-14	-1.20165484	0.479	0.779	1.7276E-09
Clic1	1.603E-16	2.08663389	0.686	0.336	3.8021E-12	Gm27239	7.9639E-14	-2.6902332	0.033	0.221	1.8889E-09
Dtx3l	2.0509E-16	4.81344344	0.422	0.025	4.8646E-12	Cnm1	8.5539E-14	-2.13799299	0.077	0.32	2.0289E-09
Rps24	3.1341E-16	1.62912944	0.753	0.434	7.4338E-12	Fam13a	9.438E-14	-1.54395025	0.291	0.615	2.2386E-09
Pla2g16	3.9741E-16	2.7220046	0.534	0.123	9.4262E-12	Slc22a12	1.0789E-13	-2.8505992	0.044	0.246	2.5559E-09
H2-T22	5.8335E-16	2.81734218	0.506	0.098	1.3836E-11	Me3	1.13E-13	-1.01835612	0.702	0.902	2.6802E-09
Tubb5	1.096E-15	3.77246586	0.442	0.049	2.5996E-11	Ryr2	1.1602E-13	-2.74770669	0.097	0.344	2.7518E-09
Eef1a1	1.2634E-15	1.29039609	0.912	0.836	2.9966E-11	Keg1	1.4873E-13	-1.93692395	0.148	0.434	3.5276E-09
Snx10	1.5303E-15	4.4058238	0.417	0.033	3.6296E-11	Tsc22d2	2.4149E-13	-1.1262178	0.746	0.902	5.7279E-09
Klf6	1.7514E-15	3.52938245	0.468	0.082	4.154E-11	Magi2	3.0961E-13	-1.13210047	0.782	0.918	7.3436E-09
Gm20388	2.2498E-15	1.04530343	0.943	0.861	5.3362E-11	Scara5	3.1097E-13	-2.19367272	0.062	0.287	7.3759E-09
Ifi27	2.4301E-15	2.78329175	0.506	0.115	5.764E-11	mt-Nd1	3.1323E-13	-1.12440988	0.576	0.852	7.4296E-09
S100a6	3.1354E-15	4.52510344	0.404	0.025	7.437E-11	Tex2	3.1963E-13	-1.60674307	0.249	0.549	7.5812E-09
Tspo	5.8647E-15	1.95335368	0.653	0.311	1.3911E-10	Ttr	3.2526E-13	-3.88541354	0.009	0.139	7.7149E-09
Erap1	6.6065E-15	2.57789786	0.503	0.115	1.567E-10	Fras1	3.8825E-13	-1.80442069	0.252	0.549	9.209E-09
Xaf1	7.2164E-15	5.76270473	0.373	0.008	1.7177E-10	Papss1	4.6121E-13	-1.47441789	0.461	0.713	1.0939E-08
Tgfbf1	7.296E-15	1.40589625	0.868	0.705	1.7305E-10	Ranbp3l	4.6793E-13	-2.37506704	0.059	0.27	1.1099E-08
Patl2	8.4362E-15	4.21680621	0.399	0.025	2.001E-10	Igfbp4	5.7853E-13	-2.43321894	0.086	0.32	1.3722E-08
Rps27a	9.662E-15	1.65174237	0.715	0.418	2.2917E-10	Slc22a1	1.4285E-12	-3.85611364	0.018	0.164	3.3883E-08
Stat2	1.0903E-14	2.27138524	0.558	0.18	2.5862E-10	Crocc	1.6613E-12	-1.95956415	0.084	0.32	3.9405E-08
Laptm4a	1.2988E-14	1.74353639	0.687	0.377	3.0806E-10	Spir1	1.704E-12	-1.32846058	0.45	0.738	4.0417E-08
Nfkbi2	1.461E-14	2.62937883	0.51	0.131	3.4653E-10	Atp2b2	2.154E-12	-1.71945351	0.229	0.516	5.109E-08
Ltcd4	1.5749E-14	1.7983297	0.616	0.238	3.7355E-10	C130050018R	2.6526E-12	-1.96345002	0.077	0.303	6.2918E-08
Ptbp3	2.3378E-14	1.01590301	0.914	0.787	5.5451E-10	Ggnbp1	4.4941E-12	-2.30363894	0.084	0.303	1.066E-07
Paxbp1	2.6451E-14	1.5492716	0.757	0.5	6.2739E-10	Add3	5.9915E-12	-1.45552072	0.269	0.566	1.4211E-07
2810474O19R	3.4864E-14	1.45315336	0.757	0.459	8.2693E-10	Adhfe1	6.5315E-12	-1.68818254	0.154	0.418	1.5492E-07
Samhd1	4.0972E-14	3.50330273	0.42	0.057	9.7182E-10	Sv2a	6.7994E-12	-1.56406108	0.26	0.533	1.6128E-07
Kansl1l	4.2088E-14	1.3547528	0.859	0.68	9.9829E-10	Irs1	7.3691E-12	-1.44086381	0.285	0.582	1.7479E-07
Pycard	5.4698E-14	2.44647553	0.55	0.205	1.2974E-09	S100g	8.7266E-12	-1.24509781	0.742	0.967	2.0699E-07
Ptma	7.5005E-14	1.50638397	0.762	0.516	1.779E-09	Pecr	1.2692E-11	-2.50492754	0.049	0.238	3.0105E-07
Csrp1	8.4594E-14	2.38570667	0.528	0.18	2.0065E-09	Kalrn	1.516E-11	-1.12868427	0.578	0.811	3.5958E-07
Cnot6	9.2548E-14	1.33988992	0.779	0.516	2.1951E-09	Gm31045	1.5402E-11	-2.87168176	0.024	0.172	3.6532E-07
Rps20	1.178E-13	1.21946021	0.786	0.549	2.794E-09	Gm26685	1.7752E-11	-2.53600183	0.037	0.205	4.2107E-07
Rpl11	1.2066E-13	1.71912629	0.664	0.361	2.8618E-09	Cab39l	2.248E-11	-1.13533465	0.51	0.73	5.3321E-07
Nrg1	2.1818E-13	1.61835306	0.722	0.467	5.1751E-09	Acat1	2.6042E-11	-1.11103591	0.446	0.697	6.1769E-07
Parp8	2.4399E-13	1.69029624	0.691	0.369	5.7873E-09	Gm6277	2.683E-11	-1.69159069	0.119	0.369	6.3637E-07
Gdf15	3.2923E-13	7.10518998	0.338	0.008	7.809E-09	Gatm	2.8575E-11	-1.96319586	0.115	0.352	6.7776E-07
Dysf	3.9499E-13	3.9204424	0.375	0.033	9.3687E-09	Ivd	4.9575E-11	-1.25411802	0.313	0.607	1.1759E-06
Rtp4	4.1654E-13	3.64682393	0.369	0.025	9.8799E-09	Fn3k	5.0864E-11	-2.99933851	0.02	0.156	1.2064E-06
Myo1b	4.4809E-13	4.54276038	0.351	0.016	1.0628E-08	Sybu	5.5059E-11	-2.52352256	0.055	0.238	1.306E-06
Gm11808	4.6866E-13	1.3050652	0.771	0.492	1.1116E-08	Spink1	6.2853E-11	-1.42058867	0.196	0.475	1.4908E-06
Cxcl9	5.7047E-13	6.8605243	0.324	0	1.3531E-08	Cavin2	6.3014E-11	-1.88186169	0.148	0.393	1.4946E-06
Zbp1	6.9131E-13	6.55362312	0.322	0	1.6397E-08	Tcn2	7.6982E-11	-1.48739976	0.335	0.59	1.8259E-06
Myof	8.1526E-13	1.68183209	0.656	0.344	1.9337E-08	Wscd1	9.7584E-11	-3.20038424	0.013	0.131	2.3146E-06
Rpl22-ps3	8.3611E-13	2.54339328	0.442	0.09	1.9832E-08	Caboco1	1.0341E-10	-1.30254387	0.463	0.697	2.4529E-06
Socs1	9.0688E-13	3.97467493	0.366	0.033	2.151E-08	Hlf	1.1269E-10	-1.84569327	0.097	0.32	2.6728E-06
Rps5	9.1581E-13	1.91188121	0.589	0.27	2.1722E-08	Gprin3	1.1527E-10	-2.49657192	0.044	0.213	2.734E-06
Rpl27a	9.3287E-13	1.65130402	0.665	0.352	2.2127E-08	Pank1	1.6846E-10	-1.45058802	0.261	0.533	3.9958E-06
Lgal3	9.6899E-13	1.89192646	0.686	0.41	2.2984E-08	Spp2	2.07E-10	-3.87446271	0.009	0.115	4.9099E-06
Tacstd2	1.2279E-12	1.80482029	0.636	0.328	2.9125E-08	Ppp2r2b	2.0934E-10	-1.45787023	0.294	0.582	4.9653E-06
Gbxw17	1.3836E-12	2.92998181	0.408	0.066	3.2817E-08	1110019B22Ri	2.1697E-10	-3.08297158	0.016	0.139	5.1462E-06
Fsr	1.7476E-12	1.99572462	0.547	0.213	4.1451E-08	Whrn	2.2544E-10	-1.75743876	0.181	0.434	5.3472E-06
Gm12216	1.9777E-12	1.34216507	0.724	0.426	4.6908E-08	Sico1a6	2.2777E-10	-2.64619587	0.031	0.18	5.4025E-06
Rpl128	2.4837E-12	1.26590246	0.729	0.459	5.8911E-08	Chd1l	2.3131E-10	-1.6991976	0.13	0.361	5.4864E-06
Il7	3.9945E-12	3.30811291	0.437	0.123	9.4746E-08	Ppargc1b	2.392E-10	-1.47786662	0.335	0.59	5.6736E-06
Vcam1	4.1366E-12	6.16871218	0.314	0.008	9.8115E-08	Al838599	2.5535E-10	-1.22883372	0.601	0.779	6.0567E-06
H3f3a	5.2991E-12	1.53395195	0.711	0.459	1.2569E-07	Ppm1l	2.7068E-10	-1.1329978	0.42	0.697	6.4202E-06
Radr1	5.8314E-12	1.56785898	0.611	0.295	1.3831E-07	Tbcl122bos	2.7379E-10	-2.28024262	0.062	0.246	6.494E-06
Wdr89	5.9868E-12	1.27817869	0.724	0.475	1.42E-07	Slc9a2	2.7466E-10	-1.56706246	0.25	0.5	6.5146E-06
Cdh3	8.0198E-12	2.25703178	0.472	0.131	1.9022E-07	Acaa1b	2.8568E-10	-2.93715991	0.029	0.172	6.7761E-06
Rpl7	8.8226E-12	1.73259297	0.636	0.377	2.0926E-07	Ptptrd	2.9402E-10	-1.07376869	0.731	0.902	6.974E-06
Wars	8.8887E-12	2.97595079	0.415	0.09	2.1083E-07	Rida	4.1078E-10	-1.30193317	0.331	0.607	9.7433E-06
Rps9	1.4223E-11	1.4558945	0.722	0.484	3.3734E-07	5830473C10Ri	4.6413E-10	-3.18694357	0.024	0.156	1.1009E-05
Rps27rt	1.6425E-11	1.37245179	0.7	0.451	3.8957E-07	Hao2	5.0231E-10	-1.789090023	0.079	0.279	1.1914E-05
Psmal1	1.6503E-11	1.6130475	0.543	0.213	3.9143E-07	Tox3	6.4825E-10	-1.05579965	0.715	0.844	1.5376E-05
Tmem176b	1.8189E-11	1.42933154	0.697	0.434	4.3144E-07	Car12	7.5087E-10	-1.30785568	0.331	0.59	1.781E-05
Rpl9-ps6	2.0424E-11	1.49382095	0.711	0.475	4.8444E-07	Sal13	1.0214E-09	-1.50650667	0.199	0.443	2.4228E-05
Parp12	2.6611E-11	1.92948091	0.501	0.18	6.3119E-07	Rasd2	1.0878E-09	-2.85760406	0.022	0.148	2.5801E-05
Ifi2bpl	2.8168E-11	2.57896912	0.411	0.09	6.6812E-07	mt-Nd4l	1.1893E-09	-1.64990878	0.243	0.475	2.8209E-05
Ly6c1	3.0528E-11	4.74150323	0.316	0.025	7.2408E-07	mt-Nd5	1.3105E-09	-1.12250001	0.399	0.68	3.1084E-05
Ctss	3.4543E-11	6.36382333	0.283	0	8.1931E-07	Pptc7	1.5615E-09	-1.13364433	0.362	0.631	3.7038E-05
Serpinp9	3.7724E-11	3.72									

Trim30a	1.3164E-10	4.01931974	0.314	0.033	3.1223E-06	Entpd5	7.3764E-09	-1.26572003	0.247	0.492	0.00017496
Trim12c	1.3695E-10	2.29698905	0.415	0.107	3.2482E-06	Lipa	8.0453E-09	-2.2737916	0.077	0.254	0.00019083
Cp	1.4532E-10	5.23709198	0.302	0.025	3.4468E-06	4930481A15Ri	9.1094E-09	-1.82163569	0.099	0.287	0.00021607
Pde3b	1.6342E-10	1.24802728	0.797	0.582	3.8761E-06	Fam151a	1.0341E-08	-2.67606267	0.011	0.107	0.00024528
Rplp0	1.8044E-10	1.21183625	0.728	0.492	4.28E-06	Fmo2	1.0693E-08	-2.88321531	0.033	0.164	0.00025362
Calr	1.8685E-10	1.53581157	0.634	0.385	4.4318E-06	Khk	1.4275E-08	-1.73612939	0.108	0.303	0.00033859
Fau	2.0181E-10	1.30606315	0.687	0.459	4.7867E-06	Gm42397	1.4565E-08	-4.05244956	0.02	0.131	0.00034547
Ifitm10	2.0807E-10	3.76239005	0.313	0.033	4.9352E-06	Frmfpd4	1.5458E-08	-1.79752991	0.389	0.59	0.00036664
Pmpa1	2.6206E-10	1.10220423	0.784	0.648	6.2157E-06	Scn4b	1.7312E-08	-1.62464151	0.155	0.361	0.00041061
Idnk	2.6467E-10	1.6303753	0.505	0.189	6.2776E-06	Sirt3	1.9208E-08	-1.05612089	0.256	0.508	0.0004556
Ywhaz	2.9283E-10	1.07992258	0.744	0.574	6.9456E-06	Glt3a2	2.1689E-08	-2.23208297	0.033	0.164	0.00051443
Gbp5	3.0339E-10	4.816938	0.276	0.008	7.1961E-06	Sypc2	2.4811E-08	-2.75895826	0.035	0.164	0.0005885
Serpina3g	3.2187E-10	4.55601677	0.276	0.008	7.6345E-06	Pdzk1	2.5293E-08	-2.15229904	0.093	0.27	0.00059993
Clec2d	3.2361E-10	1.47492859	0.587	0.303	7.6757E-06	Slc2a4	2.5744E-08	-1.76535953	0.119	0.32	0.00061061
Rps10	4.2876E-10	1.66467341	0.534	0.254	1.017E-05	Lhx1os	2.6296E-08	-2.04459045	0.071	0.238	0.00062371
Cst3	4.6218E-10	1.21043512	0.684	0.418	1.0963E-05	Pik3c2g	2.8965E-08	-2.0708926	0.122	0.311	0.00068702
Cd9	5.0612E-10	1.14097704	0.759	0.598	1.2005E-05	Adams3	2.9793E-08	-1.3639082	0.287	0.516	0.00070666
Rps23	5.2514E-10	1.3287412	0.66	0.426	1.2456E-05	Mettl24	3.0364E-08	-1.58820615	0.128	0.328	0.00072021
Acadl	5.3158E-10	1.25145317	0.697	0.475	1.2608E-05	Tob1	3.0968E-08	-1.07881594	0.34	0.582	0.00073452
Mcl1	6.2839E-10	1.63723649	0.516	0.213	1.4905E-05	Ppara	3.0969E-08	-2.29104944	0.079	0.246	0.00073455
Batf2	6.9466E-10	6.30689462	0.252	0	1.6477E-05	Crat	3.2293E-08	-1.36011533	0.155	0.369	0.00076595
Msn	7.4737E-10	1.97620231	0.47	0.164	1.7727E-05	G6pc	3.7652E-08	-3.62452011	0.022	0.131	0.00089307
AU020206	8.2515E-10	6.04621103	0.25	0	1.9572E-05	Gm48779	3.9326E-08	-2.76498602	0.013	0.107	0.00093277
Emp2	8.9553E-10	5.37787041	0.261	0.008	2.1241E-05	Lhx1	4.2643E-08	-1.49319717	0.179	0.393	0.00101144
Tnfrsf12a	8.9733E-10	3.78002613	0.289	0.025	2.1284E-05	Gm44386	4.2692E-08	-1.83254586	0.077	0.246	0.00101262
Rps3	9.6286E-10	1.29460122	0.649	0.393	2.2838E-05	Tle2	4.2917E-08	-1.35639461	0.181	0.41	0.00101794
Ifit2	9.797E-10	5.96293117	0.249	0	2.3237E-05	Gm17029	6.5162E-08	-2.33124508	0.037	0.164	0.00154558
Krt7	9.8619E-10	1.32825031	0.669	0.443	2.3392E-05	Hgd	6.5271E-08	-2.029801	0.044	0.18	0.00154816
Arl4c	1.0469E-09	5.32693581	0.397	0.123	2.4831E-05	Maldr1	6.5429E-08	-1.17048121	0.366	0.582	0.00155192
Rpl23	1.1337E-09	1.24817607	0.682	0.475	2.689E-05	Maob	6.5943E-08	-2.70736369	0.026	0.139	0.00156409
Mybl12a	1.1701E-09	2.02806782	0.408	0.115	2.7752E-05	Ces1f	7.8298E-08	-3.34243673	0.016	0.115	0.00185715
Gsp1	1.2213E-09	3.84815244	0.285	0.025	2.8968E-05	Gsta2	8.7793E-08	-1.69651939	0.033	0.156	0.00208237
Txnip	1.2234E-09	1.165998	0.715	0.508	2.9018E-05	Dhdkd1	9.4785E-08	-2.05081252	0.049	0.189	0.00224821
4930599N23R	1.4176E-09	2.6333956	0.356	0.082	3.3624E-05	Epb4113	9.5564E-08	-2.08914297	0.135	0.32	0.00226668
Far1	1.4287E-09	1.15128195	0.665	0.385	3.3886E-05	Cda	9.7459E-08	-1.62886875	0.093	0.27	0.00231162
S100a1	1.4621E-09	1.13613666	0.779	0.549	3.468E-05	Slc22a23	1.0067E-07	-1.39900784	0.346	0.549	0.00238772
Rps14	1.6047E-09	1.32029526	0.609	0.328	3.8063E-05	Cntfr	1.0695E-07	-2.79719329	0.024	0.131	0.00253678
Mxra7	1.6806E-09	2.13325187	0.426	0.139	3.9863E-05	Gal3st1	1.0921E-07	-1.00693457	0.311	0.549	0.00259037
Ier3	2.031E-09	1.25027642	0.72	0.516	4.8174E-05	Tbcd14	1.0921E-07	-1.15223334	0.296	0.533	0.00259043
Lgals3bp	2.0541E-09	3.35172389	0.293	0.033	4.8721E-05	Kitl	1.1084E-07	-1.26454458	0.435	0.664	0.00262908
Rps8	2.1796E-09	1.18308217	0.761	0.623	5.1698E-05	Ptprs	1.2118E-07	-1.26887787	0.188	0.402	0.00287416
Map4k4	2.2536E-09	2.94382005	0.314	0.049	5.3452E-05	Bcat2	1.2498E-07	-1.36625511	0.192	0.402	0.00296431
Plscr1	2.9788E-09	1.72721808	0.464	0.172	7.0654E-05	Esrra	1.3101E-07	-1.01813844	0.291	0.549	0.00310733
Atp8a1	3.0641E-09	1.3406988	0.654	0.426	7.2676E-05	Pdzrn3	1.3785E-07	-1.47518471	0.143	0.344	0.00326967
Arhgef37	3.1373E-09	3.05686943	0.311	0.049	7.4413E-05	D3Ertd751e	1.5303E-07	-1.57910804	0.135	0.328	0.00362975
Jun	3.198E-09	2.51450766	0.329	0.057	7.5854E-05	Cubn	1.7481E-07	-2.42547149	0.051	0.189	0.00414631
Id2	3.5828E-09	1.13450427	0.7	0.484	8.4981E-05	Gm37245	1.8515E-07	-3.47085853	0.018	0.115	0.00439158
Pomp	3.822E-09	1.73205604	0.455	0.172	9.0653E-05	Abhd17c	1.8842E-07	-1.11509889	0.344	0.566	0.00446921
Parp10	4.0328E-09	2.318134	0.349	0.074	9.5653E-05	Ugt2b38	1.943E-07	-1.93116697	0.038	0.164	0.00460872
Vwa5a	4.2604E-09	1.81887867	0.422	0.131	0.00010105	Kyat1	2.1002E-07	-1.24662474	0.19	0.402	0.00498135
Il18bp	4.7251E-09	2.82529577	0.309	0.049	0.0001208	Cmb1	2.1081E-07	-2.75838086	0.018	0.115	0.00500026
Isg15	5.2328E-09	4.47724109	0.245	0.008	0.00012412	Narf	2.2849E-07	-1.17017474	0.168	0.377	0.00541961
Sh3rf1	5.4143E-09	1.18847343	0.824	0.746	0.00012842	Larp1b	2.5173E-07	-1.01236123	0.497	0.672	0.00597073
Zfp608	7.1061E-09	1.32280549	0.567	0.287	0.00016855	Lyst	2.8614E-07	-1.36808231	0.424	0.598	0.00678705
Flna	7.4233E-09	4.51499974	0.241	0.008	0.00017607	Scd1	2.8818E-07	-2.5355561	0.022	0.123	0.00683527
Rplp1	7.6739E-09	1.04407101	0.722	0.516	0.00018202	Vep1h	3.1676E-07	-1.02325805	0.384	0.582	0.00751322
Ctsc	7.787E-09	4.01450664	0.272	0.033	0.0001847	Aadat	3.2115E-07	-1.42224239	0.066	0.213	0.00761745
Jund	7.8841E-09	1.79215932	0.521	0.287	0.000187	Rnaset2b	3.5416E-07	-2.12296237	0.04	0.164	0.00840031
1110038F14R	7.9253E-09	2.81917825	0.333	0.082	0.00018798	Guf1	3.7452E-07	-1.24949538	0.17	0.369	0.00888316
Pdzk1ip1	7.9772E-09	1.29931542	0.711	0.549	0.00018921	Atg10	3.8332E-07	-1.26219253	0.336	0.549	0.00909208
Adgrg1	8.0838E-09	1.00874675	0.746	0.533	0.00019174	Ppil6	4.0442E-07	-1.44638747	0.09	0.254	0.00959234
Rnf19a	8.3254E-09	1.23028876	0.676	0.459	0.00019747	Osbpl2	4.5872E-07	-1.19874868	0.254	0.459	0.01088041
Wipf1	8.3363E-09	3.09385311	0.291	0.041	0.00019773	Gm16010	4.6736E-07	-1.57549468	0.106	0.279	0.0110854
Dusp16	9.7585E-09	1.57097933	0.519	0.254	0.00023146	Pm20d1	4.7343E-07	-1.41285181	0.172	0.361	0.01122918
Rpl10a	9.9413E-09	1.35327453	0.59	0.344	0.0002358	Paps2	5.3178E-07	-1.76698336	0.068	0.213	0.01261337
Cep85	1.0236E-08	2.23006309	0.552	0.352	0.00024279	Cyp2j7	5.6784E-07	-1.2838498	0.11	0.287	0.01346868
Ywhah	1.0595E-08	2.25958296	0.356	0.098	0.00025131	Dgkz	5.9196E-07	-1.40018992	0.15	0.336	0.01404079
Anxa3	1.1129E-08	4.26388844	0.238	0.008	0.00026352	Iso2ca	6.1157E-07	-1.52165192	0.168	0.352	0.01450589
Eif1	1.1451E-08	1.3140689	0.614	0.393	0.00027161	Adck1	6.1221E-07	-1.12157813	0.245	0.459	0.01452106
Ehd4	1.484E-08	2.09320913	0.382	0.115	0.00035199	Lrrc52	6.1623E-07	-2.89406354	0.02	0.115	0.01461642
Gclm	1.5027E-08	1.23582382	0.594	0.328	0.00035643	Mtss1	6.2001E-07	-1.03710748	0.346	0.549	0.01470606
Ntn4	1.5539E-08	1.16537221	0.729	0.5	0.00036856	Lin7a	6.2449E-07	-2.16721932	0.035	0.148	0.01481232
Spin1	1.5671E-08	1.6891105	0.463	0.197	0.00037171	Pipox	6.3395E-07	-1.83793071	0.084	0.238	0.01503665
Dock5	1.5736E-08	1.68323695	0.433	0.164	0.00037324	Pxmp2	6.7124E-07	-2.51536195	0.02	0.115	0.01592113
Prkab1	1.7293E-08	1.63712901	0.473	0.197	0.00041017	Aspa	6.9373E-07	-2.59363004	0.027	0.131	0.01645459
Ifi35	1.8155E-08	2.30861945	0.34	0.082	0.00043063	Nox4	7.4369E-07	-2.25085353	0.17	0.369	0.01763958
Lgals8	1.907E-08	1.81893777	0.373	0.098	0.00045231	Pcx	7.4396E-07	-1.85340149	0.079	0.23	0.01764595
Selenow	1.9641E-08	1.93434428	0.4	0.131	0.00046587	Plekhd1	7.6533E-07	-1.17561079	0.258	0.459	0.01815295
Jpt1	2.1037E-08	2.24310588	0.356	0.098	0.00049897	Tcte2	8.0868E-07	-1.05241907	0.163	0.361	0.01918103
Pik3ip1	2.2711E-08	2.03863645	0.356	0.098	0.00053869	Best3	8.3957E-07	-2.44520396	0.044	0.164	0.01991383
Rps16	2.2804E-08	1.24743928	0.567	0.311	0.00054088	Mgam	9.6583E-07	-1.91225779	0.035	0.148	0.02290849
Prdx1	2.303E-08	1.07885651	0.715	0.549	0.00054624	C78859	9.7054E-07	-2.62841137	0.04	0.156	0.0230202
Ypel2	2.3529E-08	1.62685									

Kcnq1ot1	5.4074E-08	1.10247505	0.77	0.615	0.00128257
Arpc3	5.6875E-08	1.61013697	0.49	0.246	0.00134902
Dynl1	5.7704E-08	1.73096469	0.468	0.23	0.00136868
Actg1	5.8692E-08	1.08142332	0.695	0.451	0.00139211
Fkbp5	6.551E-08	1.53241146	0.558	0.311	0.00155382
Nub1	6.612E-08	1.54844286	0.444	0.189	0.00156831
Gm19684	6.7017E-08	4.0151499	0.218	0.008	0.00158959
Zbtb16	6.9096E-08	2.80280334	0.314	0.082	0.00163889
H2afz	6.9501E-08	1.95380974	0.399	0.148	0.0016485
C3	7.2357E-08	5.53750498	0.201	0	0.00171623
Pdcd6ip	7.3872E-08	1.31178556	0.57	0.361	0.00175217
Irf7	7.522E-08	4.64419913	0.214	0.008	0.00178414
Arpc1b	7.6316E-08	1.58475362	0.446	0.197	0.00181015
Apobec3	7.6779E-08	2.74650876	0.282	0.049	0.00182113
Rpl6	7.7286E-08	1.15787201	0.671	0.484	0.00183315
Vars	7.929E-08	2.27365161	0.331	0.09	0.00188067
Gvin1	8.4868E-08	5.73022393	0.199	0	0.00201299
Rpl18a	8.6863E-08	1.31504208	0.541	0.295	0.00206031
Rps11	9.2537E-08	1.29813813	0.545	0.303	0.00219489
Hspa5	9.4232E-08	1.33779178	0.528	0.303	0.00223509
Gm15283	9.569E-08	1.98667881	0.395	0.156	0.00226966
Gm8439	9.9502E-08	5.75100848	0.197	0	0.00236008
Il34	9.9502E-08	6.17380054	0.197	0	0.00236008
Dcdc2a	9.9502E-08	6.16842222	0.197	0	0.00236008
Pdia3	9.9747E-08	1.26982931	0.589	0.377	0.0023659
Gm20275	1.1245E-07	2.00175403	0.371	0.131	0.00266719
Hnrnpf	1.1341E-07	1.12467235	0.59	0.369	0.00268986
Npas2	1.1661E-07	5.95169296	0.196	0	0.00276584
Nedd8	1.1894E-07	1.64234013	0.468	0.238	0.00282122
Sorbs2os	1.2321E-07	1.99807561	0.417	0.172	0.00292241
C1qb	1.2362E-07	4.68215633	0.208	0.008	0.00293222
Sp140	1.2739E-07	3.52010499	0.234	0.025	0.00302153
Ctse	1.3366E-07	3.67615188	0.239	0.025	0.00317034
Sox9	1.366E-07	5.6362899	0.194	0	0.00323999
Col18a1	1.4978E-07	1.04834717	0.638	0.41	0.00355264
Ube2l6	1.5995E-07	5.38988229	0.192	0	0.00379384
Vim	1.6503E-07	4.73751504	0.205	0.008	0.00391438
Cryab	1.7149E-07	1.71332932	0.41	0.164	0.00406748
Sema3c	1.8441E-07	2.73010139	0.271	0.049	0.00437392
Arhgap28	1.8721E-07	5.72670856	0.19	0	0.00444052
Abca13	1.9401E-07	1.04794775	0.892	0.828	0.00460161
Upp1	2.0336E-07	3.11110035	0.232	0.025	0.0048235
Scand1	2.1039E-07	1.41864834	0.528	0.303	0.00499015
Rad21	2.1639E-07	1.20009349	0.59	0.377	0.00513246
Capn5	2.3222E-07	1.64950214	0.439	0.205	0.00550792
Rnf19b	2.3603E-07	2.39116505	0.296	0.074	0.00559829
Anxa5	2.3643E-07	1.39955049	0.517	0.287	0.00560792
Ywhag	2.504E-07	1.53068063	0.484	0.254	0.00593914
Txn1	2.81E-07	1.30886103	0.565	0.344	0.00666503
Gnai2	2.8782E-07	1.98297811	0.358	0.123	0.00682675
Krt19	2.93E-07	3.47205954	0.216	0.016	0.00694958
Des1	2.987E-07	1.33091253	0.503	0.27	0.00708498
Ccl8	2.9945E-07	5.78212799	0.185	0	0.0071027
Unc93b1	3.0438E-07	1.67062976	0.41	0.172	0.00721954
Rpl14	3.0848E-07	1.05106667	0.7	0.566	0.00731688
Grn	3.1058E-07	1.62742921	0.428	0.189	0.00736656
Glipr2	3.1552E-07	4.01579363	0.199	0.008	0.00748388
Rpl24	3.304E-07	1.16034184	0.585	0.361	0.00783672
Cebpb	3.4575E-07	4.25339825	0.197	0.008	0.0082008
Rps19	3.5699E-07	1.25431982	0.611	0.426	0.00846747
Twsg1	3.5754E-07	1.76926687	0.384	0.164	0.00848057
Acot9	3.5832E-07	1.69523047	0.382	0.139	0.00849895
Gm9844	3.7234E-07	4.56796525	0.196	0.008	0.00883155
Rpsa	3.7799E-07	1.02278943	0.687	0.516	0.00896556
Tmem252	3.8267E-07	3.33529486	0.223	0.025	0.00907661
Ido1	4.0873E-07	7.01178713	0.181	0	0.00969458
Gm26804	4.1625E-07	1.38139603	0.653	0.467	0.00987292
Gm10076	4.4643E-07	2.20783858	0.293	0.074	0.01058895
Jpt2	4.5835E-07	1.819651	0.353	0.123	0.01087158
Slfm2	4.7722E-07	5.4811419	0.179	0	0.01131926
Trpm3	4.8641E-07	1.35348506	0.49	0.246	0.01153718
Lamc2	4.8991E-07	1.32738693	0.514	0.27	0.01162015
Mgst1	5.2635E-07	2.04401824	0.351	0.131	0.01248461
Gm26735	5.3841E-07	2.58974058	0.234	0.033	0.01277066
Calm1	5.6357E-07	1.05117858	0.618	0.385	0.01336742
Anxa2	6.7788E-07	2.20172942	0.258	0.049	0.01607874
Kctd12	7.2024E-07	2.66846374	0.274	0.066	0.01708339
Ctps	7.236E-07	4.3554179	0.199	0.016	0.01716299
Fmnl2	7.7711E-07	1.05260078	0.58	0.32	0.01843237
Adamts6	7.7946E-07	1.34850499	0.505	0.27	0.01848805
Irf9	7.8837E-07	2.10924166	0.272	0.057	0.01869925
Gm40271	7.947E-07	1.88582778	0.322	0.098	0.01884958
Ddx60	8.1391E-07	3.15279149	0.216	0.025	0.01930523
Naca	8.6921E-07	1.44499452	0.464	0.254	0.02061675
Stxbp1	8.988E-07	2.43372404	0.243	0.041	0.0213186
Syt2	9.8081E-07	2.34560851	0.283	0.074	0.0232638
Creb5	1.0294E-06	6.12566026	0.17	0	0.02441559
Tagln2	1.054E-06	1.49500265	0.388	0.156	0.02500004
H2-DMa	1.1308E-06	3.83538548	0.185	0.008	0.02682255
Pfkip	1.1788E-06	1.28835546	0.576	0.393	0.0279593
Spink8	1.1935E-06	2.54871955	0.278	0.074	0.02830956
Fxyd5	1.199E-06	5.37428462	0.168	0	0.02843971
Aoc1	1.2311E-06	4.01613248	0.183	0.008	0.0291994
Tcea9	1.3121E-06	1.42001218	0.43	0.205	0.03112085
Klf7	1.3467E-06	1.70615546	0.36	0.139	0.03194285
Gabaraap	1.3719E-06	1.07466104	0.556	0.361	0.03253922
Silco4a1	1.3748E-06	2.52573498	0.265	0.066	0.03260947
Hivep1	1.3888E-06	1.44063936	0.448	0.23	0.03293982
Neur13	1.3961E-06	5.64192093	0.166	0	0.03311419
Hprt	1.4029E-06	1.46090742	0.373	0.139	0.03327468

Serinc2	1.5348E-06	2.3277453	0.276	0.074	0.03640464
Sgk1	1.5433E-06	2.01660488	0.283	0.074	0.03660475
Ddit4l	1.6351E-06	1.63788963	0.397	0.18	0.03878347
Mdflc	1.6383E-06	2.30931205	0.258	0.057	0.03885996
Txndc17	1.7411E-06	1.15270155	0.415	0.18	0.04129783
Scin	1.7431E-06	1.38717027	0.386	0.148	0.04134545
Cxcl17	1.7464E-06	3.61154489	0.192	0.016	0.0414225
Ptpn13	1.7466E-06	1.05555153	0.81	0.754	0.04142718
Tyropb	1.7869E-06	2.84084772	0.181	0.008	0.04238265
Tmem140	1.8482E-06	2.49410603	0.241	0.049	0.0438368
Arntl	1.8511E-06	1.75142496	0.271	0.066	0.04390552
Fat1	1.8542E-06	1.94943689	0.318	0.107	0.0439797
Casp7	1.9009E-06	1.92095882	0.3	0.09	0.04508792
Tpm4	2.0535E-06	1.4869964	0.41	0.189	0.0487067
Marcks	2.0895E-06	4.58733281	0.176	0.008	0.04956176

Table S2: Results from differential gene expression TCMR vs. Control

Connecting tubules

*This Fold Change was calculated between [BALB/c to C57BL/6] and [BALB/c to BALB/c]

Gene upr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj	Gene downr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj
H2-K1	5.108E-114	5.96767801	0.994	0.198	1.212E-109	Gm26870	1.1022E-48	-5.40821159	0.025	0.524	2.6143E-44
Ilgp1	2.167E-113	9.72418946	0.955	0.006	5.139E-109	Slc16a7	7.2092E-30	-1.25901006	0.714	0.92	1.7099E-23
B2m	1.211E-111	5.7108506	0.986	0.185	2.872E-107	Ipcel1	1.9751E-27	-1.3889839	0.533	0.827	4.6848E-23
Cd74	7.4E-108	6.79654321	0.943	0.054	1.755E-103	Peli2	2.7091E-26	-1.05821671	0.683	0.927	6.4258E-22
H2-D1	2.392E-107	5.04446732	0.986	0.31	5.674E-103	Tef	5.0004E-24	-2.08411035	0.147	0.514	1.186E-19
Ly6a	1.582E-101	5.30938461	0.958	0.243	3.7521E-97	Rhcg	5.1064E-24	-1.3149633	0.516	0.827	1.2112E-19
Stat1	5.7066E-97	5.68593602	0.898	0.077	1.3535E-92	Klhl3	6.2708E-24	-1.17927934	0.598	0.904	1.4874E-19
Irgm1	6.3999E-85	6.74038301	0.805	0.029	1.518E-80	Plekha1	9.7046E-24	-1.11010991	0.595	0.888	2.3018E-19
Gbp2b	5.024E-81	7.78266091	0.768	0.01	1.1916E-76	Akr1c19	3.0385E-22	-1.26427525	0.518	0.789	7.2069E-18
Spp1	2.129E-76	2.33407091	0.997	0.824	5.0498E-72	Col27a1	1.1623E-21	-1.18160987	0.53	0.834	2.7568E-17
Psmb8	4.13E-73	6.07637153	0.731	0.026	9.796E-69	Pdcd4	2.5494E-21	-1.64410496	0.312	0.642	6.047E-17
H2-Ab1	5.7721E-66	5.70460576	0.688	0.029	1.3691E-61	Gm32569	7.2915E-17	-1.03729806	0.431	0.748	1.7295E-12
H2-Eb1	1.9E-64	7.1482385	0.654	0.01	4.5067E-60	Tox3	9.6666E-17	-1.1350508	0.64	0.824	2.2928E-12
Ubd	2.8503E-64	7.81047632	0.646	0.003	6.7606E-60	Slc34a1	3.7346E-16	-1.3001875	0.238	0.569	8.8581E-12
Tap1	3.5075E-64	5.33295835	0.68	0.035	8.3194E-60	Acsc3	8.3607E-16	-1.24908208	0.425	0.693	1.9831E-11
Tmsb4x	1.4827E-60	2.35862123	0.963	0.553	3.5168E-56	Ybx2	4.275E-15	-1.98101529	0.116	0.371	1.014E-10
H2-Aa	4.3189E-59	6.26580744	0.623	0.016	1.0244E-54	Miox	1.3276E-14	-1.47208484	0.153	0.428	3.1489E-10
Gbp7	8.9861E-56	6.19234801	0.601	0.019	2.1314E-51	Oprm1	1.4202E-14	-1.48773598	0.17	0.441	3.3685E-10
Psmb9	1.2494E-55	5.38206598	0.618	0.035	2.9635E-51	Afm	4.3787E-14	-2.29038443	0.054	0.268	1.0386E-09
H2-T23	2.7244E-53	5.56864054	0.598	0.035	6.4619E-49	Colgalt2	6.5845E-14	-1.24909912	0.201	0.466	1.5618E-09
Ly6e	4.9825E-53	4.02253427	0.666	0.099	1.1818E-48	Kyat1	8.0251E-14	-1.32240282	0.184	0.457	1.9035E-09
NlrC5	6.6855E-53	5.94257	0.575	0.016	1.5857E-48	Abi	9.7919E-14	-1.02279842	0.473	0.728	2.3225E-09
H2-Q4	5.2919E-50	5.49458862	0.558	0.019	1.2552E-45	Cog7	1.3129E-13	-1.1383189	0.436	0.674	3.1141E-09
Tapbp	4.9551E-49	2.95596358	0.745	0.256	1.1753E-44	Adhfe1	2.3023E-13	-1.55363176	0.13	0.38	5.4608E-09
Parp14	7.8351E-49	4.83625746	0.581	0.048	1.8584E-44	Slc2a9	7.967E-13	-1.58218403	0.331	0.559	1.8897E-08
Irgm2	2.0296E-48	6.53711451	0.533	0.013	4.8139E-44	Gm36388	8.1966E-13	-1.44086631	0.21	0.46	1.9442E-08
Irfl1	1.9713E-46	5.08128955	0.558	0.045	4.6758E-42	Fam81a	1.9148E-12	-1.4272766	0.218	0.46	4.5417E-08
Bst2	2.1114E-42	3.88909726	0.578	0.093	5.0081E-38	Dnase1	2.4183E-12	-2.82143208	0.017	0.176	5.7359E-08
Tnfrsf10	1.9934E-41	4.58525044	0.521	0.048	4.7282E-37	Rmnd5a	2.7077E-12	-1.10378751	0.3	0.546	6.4223E-08
Ifitm3	7.1812E-41	4.53424891	0.507	0.035	1.7033E-36	Slc9a2	5.1889E-12	-1.36947891	0.227	0.466	1.2307E-07
Tap2	2.2739E-40	3.5163568	0.584	0.112	5.3934E-36	Cables1	7.1558E-12	-1.75385617	0.147	0.371	1.6973E-07
S100a11	4.5024E-40	2.54529861	0.734	0.284	1.0679E-35	Atp2b2	7.3763E-12	-1.08604994	0.312	0.55	1.7496E-07
Gm16685	6.265E-40	5.21723163	0.479	0.022	1.486E-35	Gm47708	1.4893E-11	-1.85366201	0.093	0.297	3.5324E-07
Gbp2	1.0497E-39	8.14290921	0.442	0.003	2.4898E-35	Crocc	2.0091E-11	-1.51344599	0.113	0.329	4.7654E-07
Fth1	1.6109E-39	1.32233272	0.989	0.827	3.8209E-35	Dbp	2.4084E-11	-2.89498453	0.034	0.195	5.7125E-07
AW112010	1.4873E-37	7.1288587	0.428	0.006	3.5276E-33	Nat8f1	5.1834E-11	-1.57427097	0.096	0.3	1.2295E-06
Actb	1.1035E-36	1.86376685	0.909	0.636	2.6174E-32	Slc4a3	7.3057E-11	-1.06459515	0.337	0.575	1.7329E-06
Offr56	1.3308E-36	7.51854122	0.414	0.003	3.1566E-32	Nr1d2	2.5989E-10	-1.06592129	0.241	0.47	6.1643E-06
H2-Q7	1.1395E-35	8.38129382	0.399	0	2.7027E-31	Sema4g	2.7283E-10	-2.14918131	0.057	0.224	6.4712E-06
Pigr	6.9922E-35	4.26516387	0.473	0.054	1.6585E-30	Frmpd4	3.0552E-10	-1.78616054	0.232	0.441	7.2466E-06
Psmb10	1.2973E-34	3.90708393	0.493	0.07	3.077E-30	Adams3	3.3091E-10	-1.04207323	0.442	0.649	7.8489E-06
Tmem176a	2.1495E-34	1.82272775	0.81	0.476	5.0985E-30	Tp52t11	3.3874E-10	-1.25871039	0.303	0.524	8.0346E-06
Cd52	3.3804E-33	5.44264804	0.399	0.013	8.018E-29	Acaa1b	5.2882E-10	-2.43505188	0.037	0.185	1.2543E-05
H2-T22	6.2246E-32	3.30748084	0.467	0.061	1.4764E-27	Rgs11	5.9238E-10	-1.22780982	0.15	0.364	1.4051E-05
Tmem176b	1.4029E-31	1.79854514	0.771	0.425	3.3275E-27	Gm315581	1.1145E-09	-1.39232822	0.181	0.383	2.6436E-05
Tmsb10	2.0775E-31	3.12255267	0.507	0.096	4.9277E-27	Klhl24	1.2827E-09	-1.02415551	0.261	0.486	3.0423E-05
Tpt1	4.2167E-31	1.35463698	0.912	0.668	1.0002E-26	Gm13262	1.2898E-09	-1.57906921	0.091	0.268	3.0593E-05
Cd274	5.3136E-31	5.20630775	0.385	0.016	1.2603E-26	Fam214a	1.935E-09	-1.03812021	0.238	0.466	4.5897E-05
Rps20	1.6829E-30	1.46045999	0.839	0.527	3.9916E-26	Pippr1	2.2461E-09	-1.21581339	0.391	0.585	5.3275E-05
Cxcl10	3.277E-30	8.92914923	0.346	0	7.7727E-26	Ces1d	2.2734E-09	-2.18572452	0.031	0.169	5.3923E-05
Ifi27	4.2203E-30	3.38186445	0.47	0.08	1.001E-25	Crybg1	2.8148E-09	-1.33432014	0.414	0.594	6.6763E-05
Rpl32	1.1732E-29	1.69747958	0.779	0.444	2.7826E-25	Per2	2.9068E-09	-1.35169325	0.13	0.323	6.8948E-05
Gbp3	2.9363E-28	6.59323678	0.337	0.006	6.9647E-24	Ptprs	3.3295E-09	-1.31244673	0.15	0.348	7.8973E-05
Calr	2.9679E-28	1.88903329	0.762	0.479	7.0397E-24	Cyp2j11	3.4803E-09	-1.27955968	0.323	0.511	8.255E-05
Gm12185	5.294E-28	7.41445075	0.329	0.003	1.2557E-23	Ednrb	4.392E-09	-2.18924439	0.04	0.179	0.00010417
Rplp1	1.1886E-27	1.45519975	0.782	0.553	2.8192E-23	Sfxn5	5.0328E-09	-1.0089071	0.283	0.498	0.00011937
Gm4951	2.2327E-27	6.99803223	0.323	0.003	5.2958E-23	Lyst	5.2233E-09	-1.08473385	0.533	0.655	0.00012389
mt-Co3	2.3049E-26	1.26364462	0.938	0.78	5.467E-22	Greb1	5.2381E-09	-1.18787875	0.227	0.441	0.00012424
Rnf213	3.4561E-26	2.16116277	0.62	0.284	8.1974E-22	Celsr2	1.0192E-08	-1.26765733	0.173	0.364	0.00024174
Ccl5	3.5729E-26	6.40852061	0.317	0.006	8.4746E-22	Mccc1	1.3633E-08	-1.00309608	0.337	0.534	0.00032337
S100a10	5.1736E-26	2.76669607	0.504	0.147	1.2271E-21	Sptbn2	1.5098E-08	-1.01892031	0.306	0.511	0.00035811
Herc6	6.787E-26	2.53418165	0.53	0.16	1.6098E-21	Gm15810	1.9788E-08	-1.04232116	0.215	0.412	0.00046936
mt-Co1	3.8358E-25	1.11395798	0.926	0.792	9.0981E-21	Sgsm1	2.3626E-08	-1.58629455	0.082	0.24	0.00056038
Nuak2	1.7969E-24	1.63569678	0.728	0.396	4.2622E-20	Map2k6	3.2746E-08	-1.16494046	0.139	0.323	0.00077671
Psmc1	4.0552E-24	2.3536111	0.527	0.182	9.6185E-20	Al838599	4.3145E-08	-1.04663907	0.499	0.661	0.00102336
Gm26917	4.4476E-24	1.2723801	0.858	0.751	1.0549E-19	Vegf1	4.5863E-08	-2.1894228	0.023	0.134	0.00108782
Rps29	6.0736E-24	1.28838821	0.822	0.594	1.4406E-19	Scn4b	6.8468E-08	-1.14355801	0.187	0.364	0.00162399
Gbp8	1.2076E-23	5.43331767	0.292	0.006	2.8643E-19	Gatm	6.8565E-08	-1.09919662	0.085	0.246	0.00162628
Gm4841	3.2418E-23	8.20272681	0.272	0	7.6893E-19	Rdh16f2	8.7511E-08	-1.39846516	0.068	0.214	0.00207568
Rps19	5.5091E-23	1.53233479	0.691	0.377	1.3067E-18	Tbcl1d22b5	8.7712E-08	-1.30680671	0.091	0.246	0.00208044
Wdr89	9.3247E-23	1.40621923	0.788	0.521	2.2117E-18	Pvalb	3.1593E-07	-1.42406843	0.074	0.211	0.00749352
Erap1	3.5389E-22	2.72891736	0.425	0.105	8.3939E-18	Mccc2	3.7676E-07	-1.0926698	0.207	0.38	0.00893633
Id2	5.9794E-22	1.26920287	0.822	0.636	1.4183E-17	Hoxb5	4.8744E-07	-1.27489308	0.119	0.272	0.0115616
Parp9	8.8885E-22	2.57360034	0.442	0.118	2.1083E-17	D630024D03R	6.5434E-07	-1.17002555	0.195	0.364	0.01552025
Patl2	1.0541E-21	4.49457661	0.295	0.019	2.5001E-17	Grem1	7.1444E-07	-1.99119447	0.119	0.262	0.01694584
Krt8	1.5887E-21	2.45851392	0.618	0.342	3.7682E-17	Gm47889	7.6061E-07	-1.28439478	0.116	0.265	0.01804082
Rpl9-ps6	1.7994E-21	1.42862017	0.748	0.495	4.268E-17	Cdkn1b	8.334E-07	-1.22848276	0.159	0.313	0.0197674
Stat3	3.4658E-21	1.06375485	0.839	0.671	8.2205E-17	Cl26a1	1.0375E-06	-1.08229249	0.297	0.473	0.02460778
Tgtp2	3.6254E-21	7.58195349	0.249	0	8.5991E-17	Emc9	1.4506E-06	-1.9012065	0.037	0.141	0.0344068
Oasl2	4.6276E-21	4.37311162	0.278	0.013	1.0976E-16	C130050O18R	1.5679E-06	-1.26004471	0.088	0.224	0.03718911
Napsa	5.8598E-21	1.4825922	0.768	0.508	1.3899E-16</						

Rpl14	1.3426E-18	1.40133477	0.705	0.457	3.1845E-14
Ifi44l	2.1225E-18	5.36057503	0.232	0.006	5.0342E-14
Rpsa	2.71E-18	1.22149022	0.734	0.498	6.428E-14
Tnfrsf12a	3.1093E-18	3.367547	0.292	0.038	7.375E-14
Gdf15	8.23E-18	2.67451525	0.445	0.157	1.9521E-13
Nrg1	1.4072E-17	1.22741855	0.714	0.527	3.3377E-13
Rpl27-ps3	1.4355E-17	1.37947107	0.686	0.444	3.4048E-13
Lcn2	3.0867E-17	4.29124147	0.246	0.019	7.3212E-13
Dbi	3.0964E-17	1.26946249	0.72	0.482	7.3444E-13
Umod	3.9785E-17	1.46896928	0.739	0.527	9.4366E-13
Slc25a30	5.6444E-17	1.16157325	0.824	0.642	1.3388E-12
Tapbp1	1.3608E-16	3.03722994	0.272	0.035	3.2276E-12
Acadl	1.6569E-16	1.2679284	0.703	0.476	3.9299E-12
Ftl1	1.8094E-16	1.03312964	0.847	0.725	4.2917E-12
Myf12a	2.7388E-16	2.01609719	0.49	0.233	6.4961E-12
C3	2.9317E-16	3.03956403	0.263	0.032	6.9537E-12
F830016B08R	3.143E-16	5.21317062	0.201	0.003	7.4548E-12
Ifi44	4.9633E-16	4.54402316	0.212	0.01	1.1772E-11
Laptm4a	9.2233E-16	1.13635188	0.691	0.502	2.1877E-11
Txn1	1.15E-15	1.79931522	0.521	0.281	2.7277E-11
Rpl22	1.1691E-15	1.38878822	0.612	0.358	2.773E-11
Apol6	1.2946E-15	5.843459	0.193	0.003	3.0705E-11
Il7	1.9421E-15	4.98141049	0.198	0.006	4.6064E-11
Isg15	2.9406E-15	4.49211212	0.215	0.016	6.9749E-11
Dtx3l	4.0922E-15	3.40300956	0.224	0.019	9.7063E-11
Gm6034	5.2815E-15	5.05600076	0.193	0.006	1.2527E-10
Cxcl9	8.0288E-15	7.31250454	0.176	0	1.9044E-10
Socs1	9.6304E-15	4.36381381	0.204	0.013	2.2842E-10
Ifit2	1.0776E-14	4.88787388	0.195	0.01	2.5558E-10
Pomp	1.2062E-14	1.98181354	0.397	0.144	2.8609E-10
Rps24	1.3343E-14	1.07412231	0.737	0.537	3.1648E-10
Rps25	1.8263E-14	1.33056916	0.601	0.345	4.3318E-10
Serpina3g	2.0107E-14	5.84984501	0.178	0.003	4.7692E-10
Rps26	2.2841E-14	1.47750867	0.504	0.243	5.4178E-10
Id3	2.4697E-14	2.61592066	0.3	0.073	5.858E-10
Ppa1	2.5553E-14	2.75591653	0.295	0.07	6.061E-10
Wfdc2	3.2548E-14	1.12439188	0.932	0.901	7.72E-10
Serpinb9	3.8534E-14	2.98270149	0.283	0.064	9.14E-10
Tacstd2	3.8693E-14	1.63012552	0.654	0.489	9.1775E-10
Clu	4.3154E-14	1.84151371	0.856	0.741	1.0236E-09
Atp11a	4.5234E-14	1.31169017	0.646	0.419	1.0729E-09
Rps5	4.6757E-14	1.42790303	0.584	0.364	1.109E-09
C1qb	5.2735E-14	6.46457718	0.173	0.003	1.2508E-09
Cxcl16	6.2729E-14	2.51174524	0.278	0.058	1.4879E-09
Cd24a	9.8602E-14	1.55254868	0.518	0.275	2.3387E-09
H3f3b	1.1893E-13	1.28610332	0.657	0.463	2.8208E-09
Itgb6	1.4187E-13	1.14881863	0.674	0.482	3.3651E-09
Hint1	1.7078E-13	1.37323061	0.589	0.377	4.0508E-09
S100a1	2.055E-13	1.33954828	0.79	0.658	4.8742E-09
Zbp1	2.6796E-13	6.11818925	0.164	0.003	6.3558E-09
Ddx60	2.6899E-13	4.13564737	0.193	0.016	6.3802E-09
Abca13	3.3296E-13	1.31449745	0.782	0.578	7.8975E-09
Akt3	3.6474E-13	1.81389095	0.431	0.188	8.6513E-09
Rps27a	4.6496E-13	1.21396779	0.669	0.473	1.1029E-08
Upp1	6.218E-13	3.01708853	0.224	0.035	1.4748E-08
Gpx1	7.0126E-13	1.18361664	0.618	0.38	1.6633E-08
C1qa	9.8522E-13	5.72849754	0.164	0.006	2.3368E-08
Heph	1.0545E-12	1.11201847	0.652	0.476	2.5011E-08
Clic4	1.2326E-12	1.90507006	0.382	0.15	2.9235E-08
Rnf19b	1.5511E-12	2.81041358	0.246	0.051	3.6791E-08
Samhd1	1.6274E-12	2.01552712	0.346	0.118	3.8601E-08
Spp12a	1.6545E-12	1.23710393	0.578	0.367	3.9243E-08
Pfn1	2.054E-12	1.36026795	0.578	0.387	4.872E-08
Dock5	2.2406E-12	1.94605233	0.34	0.115	5.3145E-08
Cfl1	2.5345E-12	1.72067644	0.453	0.24	6.0115E-08
Gm12216	3.2808E-12	1.3676195	0.572	0.361	7.7817E-08
Dysf	3.401E-12	1.99336434	0.343	0.121	8.0667E-08
Pdia3	4.1657E-12	1.1007445	0.637	0.463	9.8806E-08
Cd47	4.4498E-12	1.14046317	0.649	0.479	1.0555E-07
Clic1	4.5664E-12	1.26041087	0.592	0.39	1.0831E-07
Ddx58	5.2375E-12	1.34641989	0.47	0.23	1.2423E-07
Rplp0	5.3357E-12	1.02779465	0.677	0.466	1.2656E-07
Rpl17	6.6718E-12	1.02547604	0.637	0.444	1.5825E-07
C4b	7.2083E-12	3.78361298	0.181	0.019	1.7097E-07
Gbp5	8.1449E-12	6.9914685	0.139	0	1.9319E-07
Hspa5	8.9118E-12	1.2125713	0.612	0.447	2.1138E-07
Manf	9.0027E-12	1.32466139	0.482	0.252	2.1354E-07
Ltc4s	1.0161E-11	1.35866619	0.504	0.284	2.4101E-07
Rps23	1.0422E-11	1.15640809	0.643	0.46	2.4721E-07
Cp	1.0762E-11	3.7514552	0.201	0.032	2.5526E-07
Vim	1.2273E-11	5.36749314	0.144	0.003	2.9109E-07
Ctss	1.9341E-11	5.74103807	0.142	0.003	4.5874E-07
Rtp4	1.9363E-11	2.83513673	0.218	0.042	4.5927E-07
Ptma	2.2569E-11	1.06834979	0.728	0.572	5.353E-07
Rps27l	2.3129E-11	1.67709454	0.394	0.185	5.4859E-07
Cyb5r3	2.3408E-11	2.20615197	0.272	0.077	5.5522E-07
Rab5c	3.8783E-11	1.21406952	0.535	0.304	9.1991E-07
Rps16	3.9724E-11	1.21881857	0.589	0.406	9.4222E-07
Rpl11	4.1357E-11	1.09259752	0.618	0.447	9.8094E-07
Rps27rt	4.4765E-11	1.07687863	0.669	0.521	1.0618E-06
Cyba	5.5449E-11	1.61860121	0.453	0.243	1.3152E-06
Lgals3bp	6.0057E-11	3.25727951	0.198	0.035	1.4245E-06
AU020206	6.1154E-11	5.03942723	0.136	0.003	1.4505E-06
Atp8a1	7.3664E-11	1.30748675	0.561	0.361	1.7472E-06
Stxbp1	8.3042E-11	2.34629473	0.227	0.051	1.9697E-06
Ube2l6	9.0744E-11	4.20997562	0.142	0.006	2.1524E-06
Anxa5	9.8588E-11	1.42398092	0.518	0.323	2.3384E-06
Adgrg3	1.0696E-10	1.05754476	0.646	0.447	2.5369E-06
Cyr61	1.2154E-10	2.73337369	0.255	0.073	2.8827E-06

Rps4x	1.2316E-10	1.11867652	0.612	0.415	2.9213E-06
H2-DMA	1.24E-10	4.90605014	0.139	0.006	2.9411E-06
Irf7	1.321E-10	4.87990064	0.139	0.006	3.1334E-06
Ifi27l2a	1.5344E-10	3.78948702	0.164	0.019	3.6395E-06
Atox1	1.6802E-10	1.26021542	0.448	0.23	3.9853E-06
Gng5	1.7388E-10	1.12715725	0.541	0.355	4.1242E-06
Il18bp	1.823E-10	3.20050577	0.193	0.035	4.324E-06
Gm44148	1.8927E-10	2.42093728	0.212	0.045	4.4893E-06
Epsti1	1.9551E-10	2.675917	0.195	0.035	4.6373E-06
Lgals3	2.1981E-10	1.66126884	0.637	0.457	5.2137E-06
Tspo	2.4472E-10	1.22155938	0.564	0.374	5.8045E-06
Havcr1	2.9107E-10	4.31819418	0.142	0.01	6.9039E-06
Mrpl54	3.3799E-10	1.54925886	0.397	0.195	8.0168E-06
Krt18	3.4198E-10	1.96417145	0.513	0.342	8.1113E-06
Xdh	5.1359E-10	4.24473228	0.139	0.01	1.2182E-05
Hspb8	6.1405E-10	2.05963666	0.266	0.086	1.4565E-05
Tecpr2	6.8454E-10	1.02568831	0.592	0.438	1.6237E-05
Gsap	6.8552E-10	3.02916301	0.17	0.026	1.626E-05
Rpn1	7.5431E-10	1.42301089	0.459	0.268	1.7891E-05
Icam1	8.108E-10	3.63051985	0.167	0.026	1.9231E-05
Ifih1	1.2447E-09	2.43957742	0.218	0.058	2.9524E-05
Ifit1	1.2551E-09	5.3229993	0.119	0.003	2.9769E-05
Zc3hav1	1.28E-09	2.04675737	0.255	0.083	3.0361E-05
Plau	1.6071E-09	1.85220566	0.346	0.153	3.8118E-05
Rps11	1.6744E-09	1.08235261	0.541	0.358	3.9715E-05
Psmas	1.6876E-09	1.52749802	0.348	0.15	4.0028E-05
Csrp1	1.8446E-09	1.49351878	0.456	0.284	4.3752E-05
Cryab	1.8775E-09	1.72360835	0.414	0.22	4.4532E-05
Mrps14	1.8816E-09	1.19467468	0.419	0.208	4.4631E-05
Taf1c	1.8994E-09	1.20639785	0.518	0.339	4.5051E-05
Rps10	2.2368E-09	1.18149844	0.533	0.364	5.3055E-05
Psmb6	2.37E-09	1.42963932	0.411	0.217	5.6214E-05
Cd63	2.784E-09	1.39658359	0.479	0.313	6.6033E-05
Ciita	3.2434E-09	4.18718587	0.122	0.006	7.693E-05
Fbxw17	3.5834E-09	1.67497772	0.258	0.083	8.4994E-05
Mgp	3.8743E-09	3.09078925	0.167	0.029	9.1894E-05
Hbb-bs	3.964E-09	6.47403496	0.105	0	9.4021E-05
Plet1	4.3991E-09	2.3691433	0.235	0.073	0.00010434
Cldn7	4.4913E-09	1.13800766	0.507	0.329	0.00010653
Spink1	4.5037E-09	1.23655235	0.442	0.243	0.00010682
Calm1	4.865E-09	1.14072497	0.584	0.431	0.00011539
Srp14	4.941E-09	1.35623681	0.408	0.214	0.0001172
Ctsb	4.9835E-09	1.12167146	0.535	0.377	0.0001182
Sub1	5.212E-09	1.31097604	0.445	0.256	0.00012362
Ly75	5.4652E-09	1.61522713	0.314	0.134	0.00012963
Idnk	5.4809E-09	1.53295115	0.388	0.204	0.00013
Gab2	5.7247E-09	1.16147885	0.521	0.326	0.00013578
Psmas1	6.2767E-09	1.40670221	0.45	0.284	0.00014888
Atpv6v1g1	6.2915E-09	1.34608678	0.411	0.224	0.00014923
Sorbs1	7.256E-09	1.27659562	0.391	0.198	0.00017211
Abrac1	8.2063E-09	1.8712054	0.309	0.137	0.00019465
Rps14	9.0199E-09	1.0585894	0.544	0.39	0.00021394
Msn	1.1671E-08	1.83717219	0.354	0.182	0.00027681
Nfkbi	1.3923E-08	1.71730969	0.351	0.182	0.00033024
Pigt	1.6203E-08	1.23460651	0.416	0.233	0.00038431
Adamts6	1.639E-08	1.25581511	0.388	0.192	0.00038876
Klf6	1.6827E-08	1.43437132	0.331	0.15	0.00039912
Dynl1	1.9816E-08	1.15057895	0.473	0.291	0.00047001
Adamts1	2.5631E-08	2.5707213	0.221	0.07	0.00060794
Spns2	2.9793E-08	1.19621786	0.473	0.297	0.00070665
Csf1	2.9984E-08	4.06479763	0.116	0.01	0.00071118
Gm9844	3.0531E-08	2.82573424	0.164	0.035	0.00072416
Parp12	3.4961E-08	1.24675583	0.377	0.192	0.00082924
Arpc3	3.6197E-08	1.05706654	0.476	0.294	0.00085856
Parp10	3.7066E-08	1.44675816	0.278	0.109	0.00087917
Pycard	3.9467E-08	1.67222518	0.266	0.102	0.00093612
Lgals1	3.9566E-08	1.97937202	0.229	0.077	0.00093847
Timm13	4.4439E-08	1.27153824	0.425	0.256	0.00105404
Anxa3	5.1467E-08	3.18036228	0.144	0.026	0.00122074
Rpl29	5.4346E-08	3.64313804	0.113	0.01	0.00128903
Vars	5.456E-08	2.08151006	0.224	0.077	0.0012941
Psmb5	5.608E-08	1.31363328	0.436	0.259	0.00133016
Psmb4	6.3508E-08	1.31595258	0.343	0.169	0.00150635
Anxa2	7.4528E-08	1.94426866	0.241	0.093	0.00176772
Jun	7.8154E-08	1.58989784	0.283	0.121	0.00185373
1700016D06R	1.0748E-07	1.52679109	0.329	0.166	0.00254941
Tubb5	1.1723E-07	1.65995079	0.275	0.118	0.0027805
Elob	1.4364E-07	1.23431082	0.402	0.24	0.00340706
Nlrc4	1.5815E-07	1.16167661	0.465	0.307	0.00375123
Lap3	1.7704E-07	1.66272115	0.286	0.134	0.00419918
Tmem252	2.0294E-07	2.95971197	0.147	0.032	0.00481343
Eif4a1	2.2349E-07	1.00881994	0.473	0.307	0.00530097
Hist1h2bc	2.3247E-07	1.21874999	0.38	0.204	0.00551406
Acy3	2.5863E-07	1.24176027	0.391	0.23	0.00613446
Hmgcr	3.1154E-07	1.35448284	0.357	0.195	0.00738951
Fcer1g	3.5009E-07	2.96861252	0.139	0.029	0.0083038
Tagln2	4.2015E-07	1.37103552	0.351	0.195	0.00996547
Uqc2	4.8603E-07	1.6475973	0.232	0.089	0.01152806
Gcnt1	5.0014E-07	1.36963292	0.36	0.204	0.01186282
Rps12-ps3	5.0849E-07	1.37529687	0.365	0.217	0.01206091
Tmem140	5.1008E-07	2.36611459	0.139	0.029	0.01209851
Capns1	6.1351E-07	1.09323264	0.462	0.307	0.01455179
Scand1	6.4031E-07	1.1119409	0.516	0.387	0.01518752
Parp3	6.5631E-07	2.21603449	0.167	0.048	0.01556696
Ctsc	6.8508E-07	2.27893924	0.153	0.038	0.01624946
Arpc5	6.8735E-07	1.12973176	0.391	0.233	0.01630316
Jpt1	6.9445E-07	1.5640728	0.258	0.115	0.01647175
Tor3a	7.8883E-07	1.83929306	0.212	0.08	0.01871034
1810037117Ri	8.0175E-07	1.3575352	0.334	0.182	0.01901676

Sh3bgrl3	1.055E-06	1.11100378	0.45	0.316	0.02502327
Tuba1b	1.091E-06	1.27443958	0.289	0.137	0.02587729
Rpl21	1.1489E-06	2.28145289	0.159	0.045	0.02725123
Ldhd	1.2133E-06	1.74303904	0.246	0.109	0.02877808
Rps15a	1.3346E-06	1.51010529	0.246	0.105	0.03165541
Slc9a3r1	1.5033E-06	1.14419875	0.354	0.198	0.03565649
Rtraf	1.5579E-06	1.04798287	0.326	0.169	0.03695249
Ctsz	1.616E-06	1.96561528	0.201	0.077	0.0383303
Unc93b1	1.6326E-06	1.0777904	0.34	0.185	0.03872336
Kdelr2	1.7328E-06	1.1779538	0.343	0.188	0.04110013
Leprotl1	1.746E-06	1.37131375	0.297	0.147	0.04141445
Plcb1	1.7816E-06	1.00679509	0.603	0.498	0.04225857
Tmem205	1.8082E-06	1.13759333	0.36	0.204	0.04288852
Sf3b5	2.0155E-06	1.38955681	0.309	0.166	0.04780678

Table S2: Results from differential gene expression TCMR vs. Control

Collecting duct principal cells

*This Fold Change was calculated between [C57BL/6 to BALB/c] and [C57BL/6 to C57BL/6]

Gene upr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj	Gene downr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj
B2m	1.9499E-30	4.17982334	0.997	0.558	4.625E-26	Gm26870	1.0572E-51	-6.0802031	0.019	0.75	2.5077E-47
Ly6a	2.1509E-30	5.86386659	0.994	0.25	5.1016E-26	Tnn	7.1948E-32	-9.35030472	0	0.404	1.7065E-27
H2-K1	4.2659E-30	3.73047071	1	0.769	1.0118E-25	Slc34a1	3.6143E-26	-3.35048474	0.179	0.865	8.5728E-22
Cd74	8.6644E-30	6.78618022	0.985	0.154	2.0551E-25	mt-Nd3	4.8416E-25	-3.77196773	0.034	0.5	1.1484E-20
H2-D1	1.9076E-29	3.37482451	0.997	0.75	4.5247E-25	Miox	1.8265E-22	-3.26064365	0.086	0.615	4.3323E-18
Clu	2.6116E-29	5.50501668	0.985	0.346	6.1944E-25	Slc22a8	1.4653E-21	-4.43293715	0.015	0.365	3.4755E-17
Ilgp1	9.9821E-29	5.0251024	0.988	0.038	2.3677E-24	Kap	1.7803E-21	-2.05304591	0.864	1	4.2228E-17
Gbp2	1.7877E-27	3.73045622	0.938	0.038	4.2403E-23	Akr1c21	4.8588E-21	-3.17776685	0.068	0.558	1.1525E-16
Psmb8	2.6292E-26	5.36375445	0.932	0.096	6.2363E-22	mt-Nd4	1.5036E-20	-1.79422836	0.796	1	3.5663E-16
Stat1	2.0653E-25	3.96042761	0.951	0.231	4.8987E-21	mt-Nd2	4.5346E-20	-1.76424223	0.741	1	1.0756E-15
H2-Aa	1.6846E-23	8.22866351	0.855	0	3.9956E-19	Tspan18	4.5103E-19	-4.86230553	0.031	0.385	1.0698E-14
H2-Ab1	4.8551E-23	6.17284047	0.861	0.058	1.1516E-18	Dnase1	3.1057E-18	-5.66487664	0.003	0.25	7.3663E-14
Irgm1	2.9108E-22	4.02679227	0.895	0.192	6.9041E-18	Cyp2a4	4.0957E-18	-4.66624651	0.006	0.269	9.7145E-14
Irgm2	8.5624E-21	5.02382075	0.83	0.096	2.0309E-16	mt-Cytb	1.4835E-17	-1.7104815	0.549	0.981	3.5186E-13
H2-T23	8.6825E-21	3.93749791	0.864	0.25	2.0594E-16	Eci3	4.9507E-17	-6.48507211	0	0.212	1.1742E-12
Tapbp	1.1721E-20	2.1126849	0.96	0.692	2.7802E-16	Ncam2	2.08E-16	-3.6041998	0.046	0.404	4.9336E-12
H2-Eb1	9.4705E-20	5.79744348	0.793	0.077	2.2463E-15	Col27a1	4.9545E-16	-3.26712832	0.077	0.481	1.1752E-11
Tnfrsf10	1.5309E-19	2.76180046	0.91	0.365	3.6311E-15	Aldob	1.5828E-15	-2.16228413	0.33	0.885	3.7541E-11
H2-Q7	5.5546E-19	5.95716239	0.765	0.038	1.3175E-15	Fbp1	2.6607E-15	-2.39067225	0.059	0.442	6.311E-11
Lcn2	1.1445E-18	2.30970927	0.975	0.5	2.7146E-14	Cdk11	3.6083E-15	-1.25419119	0.762	1	8.5585E-11
Tap1	1.7133E-18	4.00096044	0.799	0.096	4.0637E-14	Frmpp4	5.7502E-15	-1.22111419	0.92	0.981	1.3639E-10
Gbp7	2.5505E-17	4.51100985	0.759	0.115	6.0495E-13	Sord	8.8957E-15	-2.15680962	0.133	0.596	2.11E-10
Parp14	2.7678E-17	2.70556053	0.864	0.346	6.5649E-13	Xylt1	9.3225E-15	-2.83652616	0.083	0.481	2.2112E-10
Psmb9	2.981E-17	4.36697712	0.759	0.115	7.0706E-13	Tmem27	1.0875E-14	-1.96278318	0.207	0.75	2.5794E-10
Rnf213	3.2884E-17	2.5215325	0.889	0.442	7.7998E-13	P3h2	1.1424E-14	-1.85846312	0.481	0.942	2.7096E-10
Ifitm3	4.2358E-17	2.87862709	0.861	0.288	1.0047E-12	Lmo7	1.5442E-14	-1.27266956	0.701	0.962	3.6626E-10
Irf1	5.3149E-17	3.54711315	0.809	0.288	1.2606E-12	Cyp4a10	1.6033E-14	-3.57715975	0.015	0.269	3.8029E-10
H2-Q4	7.7532E-16	4.18453464	0.716	0.096	1.839E-11	Gprc5b	1.8145E-14	-2.0225112	0.29	0.769	4.3037E-10
Psmb10	1.0645E-15	3.73284801	0.744	0.135	2.525E-11	Pck1	2.2819E-14	-3.00609635	0.083	0.481	5.4125E-10
Spp1	1.8119E-15	1.16607456	0.997	0.885	4.2975E-11	Keg1	4.8283E-14	-2.41519564	0.142	0.615	1.1452E-09
Trim12a	1.9343E-15	2.88428633	0.793	0.365	4.5879E-11	Gsta3	5.3526E-14	-2.36063293	0.12	0.558	1.2696E-09
Serping1	2.4996E-15	5.9782516	0.667	0.019	9.5289E-11	mt-Atp6	7.9263E-14	-2.15689552	0.855	1	1.88E-09
Ubd	3.2702E-15	7.03036894	0.651	0	7.7567E-11	Lrp2	9.9045E-14	-2.90561579	0.114	0.538	2.3492E-09
Wfdc2	3.5321E-15	1.76433322	0.954	0.865	8.3778E-11	Col4a4	1.2471E-13	-1.42407664	0.775	1	2.9579E-09
Apoe	4.532E-15	3.68544531	0.741	0.135	1.0749E-10	Galm	2.4064E-13	-3.14646935	0.167	0.558	5.7077E-09
Apobec3	9.0419E-15	1.67683027	0.917	0.75	2.1446E-10	mt-Nd5	2.6253E-13	-1.90142329	0.358	0.808	6.227E-09
Gbp8	1.4817E-14	5.71770034	0.645	0.019	3.5144E-10	B4galnt3	2.6713E-13	-2.04817394	0.12	0.558	6.336E-09
Pycard	2.6057E-14	2.71701786	0.793	0.385	6.1805E-10	Ttr	2.9362E-13	-3.49587967	0.015	0.25	6.9645E-09
Chd9	5.1734E-14	1.14466207	1	1	1.2271E-09	mt-Co2	4.2324E-13	-1.17088843	0.796	0.962	1.0039E-08
Bst2	1.4125E-13	3.26108185	0.713	0.154	3.3503E-09	Nat8f1	8.1783E-13	-3.21051589	0.065	0.404	1.9398E-08
Gm4951	1.4404E-13	7.30246001	0.602	0	3.4166E-09	Acsm2	9.6335E-13	-3.10520125	0.105	0.5	2.285E-08
Eef1a1	3.2525E-13	1.16239629	0.997	0.904	7.7146E-09	Car14	1.0505E-12	-6.26739488	0	0.154	2.4917E-08
Tap2	3.6238E-13	2.62712214	0.784	0.327	8.5953E-09	Cobll1	1.1407E-12	-1.13159699	0.821	1	2.7055E-08
Tmsb10	6.2531E-13	3.61289047	0.685	0.212	1.4832E-08	Rdh16f2	1.152E-12	-4.40281152	0.009	0.212	2.7323E-08
Lyz2	1.2185E-12	6.2586444	0.583	0.019	2.8902E-08	Nat8f6	1.4406E-12	-4.76024879	0.006	0.192	3.4169E-08
H2-Q6	1.3264E-12	5.66748169	0.583	0.019	3.1461E-08	Ugt3a1	1.5297E-12	-5.667283	0.003	0.173	3.6283E-08
Gm16685	1.4269E-12	4.22784203	0.636	0.096	3.3843E-08	Pah	1.545E-12	-2.81141252	0.052	0.365	3.6645E-08
Eef2	1.458E-12	1.35044289	0.944	0.769	3.4582E-08	Hsd3b2	1.5851E-12	-5.41535383	0.003	0.173	3.7596E-08
Oasl2	2.5558E-12	3.54936814	0.645	0.096	6.062E-08	Wscd1	1.9607E-12	-3.96623475	0.003	0.173	4.6507E-08
Nlr-c3	2.7153E-12	4.26743555	0.611	0.058	6.4403E-08	Gcnt3	3.8582E-12	-3.03199715	0.025	0.269	9.1513E-08
AW112010	5.8739E-12	5.95416446	0.562	0.019	1.3932E-07	Egf	6.1907E-12	-3.97759577	0.052	0.365	1.4684E-07
Gbp3	8.6896E-12	4.26822123	0.583	0.038	2.0611E-07	Epor	7.8876E-12	-2.65942784	0.111	0.481	1.8709E-07
Psmc1	1.5518E-11	1.88156356	0.796	0.538	3.6807E-07	Pcx	9.8322E-12	-2.43109016	0.188	0.596	2.3321E-07
Krt18	1.77E-11	1.60323334	0.92	0.788	4.1983E-07	Gm37245	1.1059E-11	-4.30385983	0.012	0.212	2.6232E-07
Fam129a	2.0173E-11	1.71368197	0.877	0.769	4.7849E-07	Fign	1.3153E-11	-1.85400165	0.077	0.423	3.1198E-07
Parp9	2.3695E-11	2.61152549	0.719	0.327	5.6201E-07	Fam83a	1.9831E-11	-4.49606926	0.009	0.192	4.7037E-07
Sh3bgrl3	2.7168E-11	1.43939517	0.948	0.75	6.4439E-07	Nox4	2.8053E-11	-2.51356763	0.111	0.5	6.6539E-07
Ifit3	4.1257E-11	4.04804672	0.599	0.115	9.7858E-07	Slc22a22	2.8455E-11	-5.81181191	0	0.135	6.7493E-07
Eva1b	7.7169E-11	2.72709082	0.694	0.327	1.8304E-06	Chst9	3.4709E-11	-1.43115511	0.309	0.788	8.2326E-07
Clec2d	1.1197E-10	2.53479635	0.707	0.365	2.6557E-06	Cavin2	3.8924E-11	-4.23601131	0.006	0.173	9.2323E-07
Plac8	1.6769E-10	2.98823538	0.639	0.212	3.9774E-06	Cd59a	4.6751E-11	-1.41682766	0.262	0.731	1.1089E-06
Ier3	2.2629E-10	3.94847231	0.571	0.096	5.3673E-06	Gatm	4.6904E-11	-2.09315871	0.108	0.481	1.1125E-06
Pla2g16	2.6305E-10	4.3295228	0.556	0.096	6.2394E-06	Gm13111	5.7297E-11	-2.5068862	0.071	0.385	1.359E-06
Olfir56	3.1316E-10	6.43770899	0.488	0	7.4278E-06	Gsta2	8.1123E-11	-3.12862447	0.025	0.25	1.9241E-06
Ifi44	3.1864E-10	2.69724126	0.639	0.154	7.5577E-06	Cd59b	8.2154E-11	-2.38824947	0.08	0.404	1.9486E-06
Dtx3l	3.5222E-10	2.9543389	0.605	0.154	8.3542E-06	Emilin2	9.3789E-11	-2.97570052	0.031	0.269	2.2246E-06
Krt8	5.09E-10	1.51893556	0.886	0.654	1.2073E-05	Map3k21	9.9728E-11	-1.63064008	0.145	0.538	2.3655E-06
Ctss	7.7673E-10	4.4917951	0.519	0.058	1.8423E-05	Phldb2	1.0451E-10	-1.16928893	0.84	0.981	2.4788E-06
Hsx10	7.8569E-10	3.13207424	0.574	0.115	1.8636E-05	Gm14403	1.0928E-10	-3.32937411	0.015	0.212	2.592E-06
Nrc6	8.1097E-10	2.69403021	0.664	0.269	1.9235E-05	Slc5a12	1.1509E-10	-3.43425215	0.015	0.212	2.7299E-06
Krt19	1.9586E-09	5.09247822	0.488	0.038	4.6456E-05	Slc22a12	1.1712E-10	-2.71120064	0.043	0.308	2.7781E-06
Cd52	3.5929E-09	5.10736894	0.466	0.019	8.5219E-05	Slc16a12	1.1751E-10	-2.17825211	0.154	0.538	2.7871E-06
Batf2	5.7381E-09	6.15336933	0.438	0	0.0001361	Arhgdig	1.3465E-10	-3.11496216	0.046	0.308	3.1937E-06
Irf7	6.0695E-09	3.18554883	0.549	0.135	0.00014396	Ak4	1.8694E-10	-3.54096847	0.022	0.231	4.4339E-06
Etv6	7.7027E-09	1.3927125	0.843	0.692	0.0001827	D3Ertd751e	2.2337E-10	-2.39569108	0.074	0.385	5.298E-06
Z810474O19R	8.218E-09	1.37699059	0.849	0.769	0.00019492	Fmo1	2.2572E-10	-3.19702134	0.022	0.231	5.3538E-06
Mt1	1.0488E-08	2.54690673	0.701	0.385	0.00024876	Tril	2.8164E-10	-3.34352841	0.012	0.192	6.6803E-06
Ccl5	1.2128E-08	5.59870024	0.441	0.019	0.00028766	Cgn1	3.2867E-10	-1.25077493	0.623	0.942	7.7957E-06
S100a10	1.3517E-08	1.9280205	0.731	0.5	0.00032062	Baia2	3.2982E-10	-2.42865489	0.105	0.423	7.8229E-06
Stat3	1.4373E-08	1.27669351	0.87	0.731	0.00034091	Col4a3	3.6191E-10	-1.65771938	0.617	0.923	8.5841E-06
Stat2	1.505E-08	2.02974704	0.617	0.231	0.00035697	Thrb	3.7822E-10	-1.6695345	0.299	0.712	8.971E-06
Mgst1	1.871										

Clic1	6.4471E-08	1.10215547	0.883	0.712	0.00152919	Slc5a2	1.8047E-09	-2.46913266	0.037	0.269	4.2806E-05
Patl2	6.9351E-08	4.99874861	0.41	0.019	0.00164494	Tln2	1.941E-09	-1.38776508	0.389	0.788	4.6038E-05
Tspo	7.654E-08	1.19914602	0.84	0.712	0.00181545	Gm14532	2.08E-09	-2.83930259	0.031	0.25	4.9334E-05
Zbp1	8.4156E-08	5.88957777	0.389	0	0.0019961	Gm20732	2.2676E-09	-1.32656458	0.441	0.885	5.3786E-05
Nuak2	1.0931E-07	2.2991878	0.63	0.269	0.00259267	Phyhipl	2.3393E-09	-1.80388563	0.219	0.596	5.5485E-05
Tapbpl	1.1311E-07	2.35565696	0.549	0.154	0.00268288	Cpeb3	3.1506E-09	-1.39087521	0.395	0.846	7.473E-05
Efna5	1.4047E-07	1.06463447	0.929	0.923	0.00333179	Col26a1	3.2536E-09	-3.21420435	0.213	0.519	7.7172E-05
Csrp1	1.6099E-07	1.51065593	0.738	0.596	0.00381847	Dbp	3.944E-09	-1.75508502	0.164	0.538	9.3548E-05
Grem2	2.0529E-07	2.57528808	0.654	0.385	0.00486921	Tef	4.4377E-09	-1.86126237	0.198	0.577	0.00010526
Pigr	2.112E-07	4.69833583	0.392	0.019	0.00500946	Acaa1b	4.8521E-09	-2.495163	0.034	0.25	0.00011509
Cxcl9	2.1837E-07	5.77646355	0.37	0	0.00517952	Slc9a6	4.8742E-09	-1.49448838	0.185	0.577	0.00011561
Elf3	3.387E-07	2.0426901	0.654	0.423	0.00803356	Lyst	6.0661E-09	-2.11788842	0.429	0.75	0.00014388
Samhd1	3.515E-07	2.66098173	0.519	0.154	0.00833728	Mier3	6.3671E-09	-2.11169423	0.194	0.558	0.00015102
Ifitm10	3.698E-07	3.89447065	0.423	0.058	0.00877132	Igfbp4	6.7627E-09	-2.26806857	0.102	0.404	0.0001604
Rps4x	4.1345E-07	1.10890386	0.849	0.75	0.00980663	Slc9a4	7.216E-09	-1.77441936	0.108	0.423	0.00017116
G3bp2	4.4464E-07	1.34415373	0.759	0.635	0.01054648	Slit2	9.4082E-09	-2.58039368	0.244	0.577	0.00022315
Cxcl10	4.5665E-07	3.23692872	0.41	0.038	0.01083139	Khk	1.0547E-08	-1.35836213	0.093	0.404	0.00025017
Ube2l6	4.677E-07	3.7185591	0.414	0.058	0.0110933	Nkapl	1.2022E-08	-3.0875337	0.009	0.154	0.00028515
Tspan15	5.2046E-07	1.23438514	0.753	0.558	0.01234469	Hnfla	1.2704E-08	-3.61641351	0.009	0.154	0.00030133
Ctgf	5.623E-07	3.32433386	0.478	0.115	0.0133373	Isoc2a	1.3286E-08	-2.11606971	0.083	0.365	0.00031514
Pabpc1	5.8763E-07	1.32082342	0.775	0.635	0.01393795	Sox6	1.4274E-08	-1.03720332	0.88	0.962	0.00033857
Cd274	6.0149E-07	2.95729828	0.466	0.115	0.01426686	Nr1d1	1.5785E-08	-1.47675241	0.086	0.385	0.00037441
H2-DMa	1.3175E-06	4.05420189	0.392	0.058	0.03124955	Gpd1	1.677E-08	-2.00801805	0.043	0.269	0.00039778
Rab5c	1.3481E-06	1.28173231	0.722	0.538	0.03197514	Spock3	2.041E-08	-3.07313731	0.133	0.423	0.00048412
Lgals9	1.3543E-06	5.56387798	0.333	0	0.03212341	Gm35164	2.0946E-08	-3.67336575	0.006	0.135	0.00049683
H3f3b	1.3861E-06	1.05938271	0.867	0.75	0.03287802	Ei24	2.1427E-08	-1.28191382	0.278	0.712	0.00050822
Tgm2	1.4175E-06	3.0323733	0.491	0.192	0.03362176	Fxyd4	2.1811E-08	-1.37696827	0.855	0.962	0.00051733
Ciita	1.5421E-06	3.80525325	0.38	0.038	0.03657591	Rhd	2.5726E-08	-4.90237999	0.003	0.115	0.00061019
Serpina3g	1.5693E-06	5.74762826	0.33	0	0.03722185	Kcnn3	2.6249E-08	-3.47986234	0.015	0.173	0.0006226
						Prodh2	2.6607E-08	-5.25642214	0.003	0.115	0.00063108
						Ism2	2.9594E-08	-3.18268922	0.015	0.173	0.00070194
						Nkap5	3.0732E-08	-1.24528025	0.827	0.981	0.00072893
						Lrrtm1	3.1469E-08	-3.77540412	0.003	0.115	0.00074641
						Sel1l3	3.154E-08	-2.14924782	0.052	0.288	0.00074781
						Cadm2	3.1678E-08	-3.29395539	0.093	0.346	0.00075138
						Stard13	3.41E-08	-1.49107751	0.08	0.365	0.00080882
						Sgcd	3.5019E-08	-2.27389961	0.071	0.327	0.00083061
						Chn2	3.6942E-08	-1.45482842	0.231	0.615	0.00087622
						Pank1	3.9304E-08	-1.43776658	0.185	0.558	0.00093226
						Colgal2	4.3704E-08	-3.10080266	0.034	0.231	0.00103662
						Wfdc15b	4.7794E-08	-1.30765864	0.167	0.538	0.00113364
						Ptprd	4.9289E-08	-1.79501072	0.259	0.635	0.00116909
						Rassf6	5.207E-08	-1.76522564	0.133	0.442	0.00123504
						Ass1	5.768E-08	-2.23870811	0.167	0.519	0.00136811
						Cnnm1	6.071E-08	-1.60174151	0.083	0.365	0.00143998
						Tmem14a	6.3621E-08	-2.34222386	0.022	0.192	0.00150901
						Egln1	6.5443E-08	-1.1241052	0.272	0.692	0.00155223
						Eps8l1	6.5455E-08	-1.56866225	0.164	0.5	0.00155252
						Abcc4	7.4037E-08	-1.2508382	0.512	0.827	0.0017561
						Abcc5	7.511E-08	-1.73684603	0.256	0.596	0.00178155
						Atg10	7.521E-08	-1.19197678	0.364	0.808	0.00178391
						Nrarp	7.7082E-08	-3.49650925	0.012	0.154	0.0018283
						Bckd1b	7.75E-08	-1.44209439	0.238	0.596	0.00183823
						Map2k6	7.7886E-08	-1.73114835	0.099	0.385	0.00184738
						Rassf8	7.8205E-08	-1.48807622	0.167	0.5	0.00185493
						Slc12a8	8.1038E-08	-3.72676325	0.012	0.154	0.00192214
						Snx29	8.3366E-08	-1.38193666	0.441	0.788	0.00197735
						Cacna1d	8.7172E-08	-1.44295452	0.336	0.712	0.00206764
						Car12	9.14E-08	-2.78618656	0.086	0.346	0.00216791
						Gm6665	9.1809E-08	-2.04599264	0.012	0.154	0.00217761
						Ehhadh	9.4183E-08	-1.63405948	0.099	0.385	0.00223393
						2700049A03Ri	1.0097E-07	-1.75901448	0.154	0.481	0.002395
						Odc1	1.0613E-07	-1.49665987	0.225	0.577	0.00251739
						Slc7a8	1.1648E-07	-2.1454535	0.108	0.385	0.00276284
						Gm42889	1.3984E-07	-2.92496491	0.031	0.212	0.00331678
						Haus4	1.4063E-07	-1.39990082	0.157	0.5	0.00333552
						Wscd2	1.4945E-07	-1.62912703	0.151	0.481	0.00354475
						Plekhd1	1.6988E-07	-2.95678732	0.025	0.192	0.00402932
						4932438A13Ri	1.7551E-07	-1.14898159	0.664	0.904	0.00416292
						Aadat	1.7682E-07	-1.26856408	0.043	0.25	0.00419408
						Asl	1.8557E-07	-1.53246635	0.108	0.404	0.00440157
						Acpp	1.8707E-07	-1.64804221	0.083	0.346	0.00443712
						Ppp2r2b	1.9433E-07	-2.39671673	0.219	0.538	0.00460935
						Ppargc1a	2.0546E-07	-1.3767923	0.491	0.808	0.00487328
						Sico1a6	2.0877E-07	-2.59364102	0.052	0.269	0.00495193
						Ddc	2.1834E-07	-2.84429495	0.009	0.135	0.00517881
						Papss2	2.2574E-07	-3.02231508	0.04	0.231	0.00535442
						Strip2	2.2949E-07	-1.71765891	0.127	0.423	0.00544323
						Catsper3	2.3019E-07	-3.33461073	0.009	0.135	0.0054599
						Fbxo22	2.3835E-07	-1.21449298	0.108	0.404	0.00565339
						Mpped2	2.4175E-07	-1.18117409	0.534	0.923	0.00573411
						Gm17276	2.5486E-07	-1.2779929	0.225	0.596	0.00604503
						Yif1b	2.716E-07	-1.44692326	0.102	0.385	0.00644198
						Zmiz1	2.7559E-07	-1.23654726	0.559	0.846	0.00653661
						Gstm2	2.7825E-07	-1.48696206	0.552	0.808	0.00659982
						lqck	3.143E-07	-2.14653674	0.093	0.346	0.00745481
						Adam22	3.9321E-07	-2.00435739	0.176	0.462	0.00932647
						Cd164	4.0603E-07	-1.16214373	0.417	0.75	0.00963051
						Nat8f3	4.2777E-07	-4.63569875	0.006	0.115	0.01014625
						Aldh6a1	4.2985E-07	-1.44262282	0.262	0.635	0.01019561
						Gm47438	4.4027E-07	-3.67870317	0.006	0.115	0.01044275
						Scn4b	4.4027E-07	-3.49036509	0.006	0.115	0.01044275
						Fhit	4.4618E-07	-1.39898912	0.667	0.904	0.01058306
						Slc19a1	4.5047E-07	-2.37446105	0.04	0.231	0.01068475
						Kcnj15	4.7029E-07	-1.99833155	0.083	0.327	0.01115492
						Ebf1	4.7094E-07	-2.57318996	0.049	0.25	0.01117021
						2700089I24Rik	4.7702E-07	-2.43319559	0.015	0.154	0.01131445
						Kyat1	4.8748E-07	-1.50160631	0.13	0.423	0.01156248
						Rgs11	4.9464E-07	-1.51362659	0.17	0.481	0.01173247
						Lyp1a1	4.9807E-07	-1.65007405	0.062	0.288	0.01181375

Fahd2a	5.1073E-07	-1.34947389	0.093	0.365	0.01211393
Dock6	5.372E-07	-1.36105361	0.176	0.519	0.01274183
Map2	5.3763E-07	-1.59353131	0.38	0.692	0.01275211
Aamdc	5.4644E-07	-1.27253721	0.219	0.577	0.01296099
Taco1	5.5036E-07	-1.05542017	0.114	0.404	0.01305394
Ankrd9	5.5627E-07	-2.06310905	0.056	0.269	0.01319409
Slc9a7	5.621E-07	-2.24248004	0.114	0.385	0.01333254
Pxmp2	6.1146E-07	-2.42626854	0.015	0.154	0.01450315
Bbs9	6.3125E-07	-1.6065258	0.256	0.596	0.01497262
Tom1	6.982E-07	-1.61014104	0.145	0.442	0.01656072
Slc13a3	7.5868E-07	-3.43911811	0.037	0.212	0.01799517
Ap1g2	7.907E-07	-1.80581517	0.056	0.269	0.01875462
2610035D17Ri	8.2052E-07	-1.5050312	0.17	0.481	0.01946184
Trib1	8.3606E-07	-1.19902712	0.188	0.538	0.01983058
Aldh8a1	8.5149E-07	-2.28366256	0.028	0.192	0.0201965
Mgat3	9.7982E-07	-2.38456914	0.043	0.231	0.02324039
Raly1	9.8213E-07	-3.0331604	0.145	0.404	0.02329519
Kcne1	9.94E-07	-1.96513183	0.185	0.462	0.02357679
Igfbp5	1.0068E-06	-1.64934311	0.083	0.327	0.02387988
Abhd14a	1.0123E-06	-1.93475386	0.049	0.25	0.02401154
Dzip1	1.0695E-06	-1.42636205	0.102	0.365	0.02536833
D030045P18Ri	1.1381E-06	-2.1076159	0.059	0.269	0.02699524
Pi4k2b	1.143E-06	-1.52175254	0.198	0.519	0.02711195
Lrig1	1.1465E-06	-2.08338892	0.08	0.308	0.02719396
Prex2	1.1628E-06	-2.35196122	0.052	0.25	0.0275796
Slc22a30	1.166E-06	-3.55202054	0.012	0.135	0.02765573
Fam107b	1.1886E-06	-1.17351253	0.469	0.769	0.02819302
Adhfe1	1.2008E-06	-1.34535146	0.074	0.308	0.02848202
Caap1	1.2312E-06	-1.12872299	0.235	0.596	0.02920335
Acadm	1.2808E-06	-1.09108937	0.284	0.654	0.03037881
Gm15638	1.2822E-06	-2.91677129	0.012	0.135	0.03041136
Scd4	1.3765E-06	-3.34284499	0.012	0.135	0.03264948
Vldlr	1.4219E-06	-1.44503384	0.164	0.462	0.03372642
Best3	1.4431E-06	-2.44019076	0.012	0.135	0.03422868
mt-Nd6	1.5391E-06	-1.68767435	0.12	0.385	0.03650538
Rap1gap2	1.5848E-06	-1.98295561	0.111	0.365	0.03758977
Dtnbos	1.6592E-06	-1.71054089	0.068	0.288	0.03935486
Ttbk1	1.6619E-06	-2.42733461	0.012	0.135	0.03941927
Hspa13	1.6749E-06	-1.41531692	0.123	0.404	0.03972649
Fn3k	1.7258E-06	-1.50693285	0.043	0.231	0.04093362
Ppp1r16b	1.8394E-06	-2.4011538	0.037	0.212	0.04362822
Lekr1	1.9392E-06	-1.57155258	0.117	0.385	0.04599504
Ugt8a	2.0282E-06	-1.11292259	0.367	0.731	0.04810573
Gm15510	2.0793E-06	-2.7401175	0.019	0.154	0.0493184

Table S2: Results from differential gene expression TCMR vs. Control

Collecting duct principal cells

*This Fold Change was calculated between [BALB/c to C57BL/6] and [BALB/c to BALB/c]

Gene upr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj	Gene downr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj
Cd74	4.674E-126	7.57556261	0.982	0.064	1.109E-121	Malat1	1.1292E-70	-1.38942342	0.995	1	2.6784E-66
B2m	4.783E-122	5.07103008	1	0.408	1.135E-117	Gm2670	5.4244E-64	-5.05260297	0.023	0.606	1.2866E-59
H2-K1	3.332E-118	4.78840638	0.995	0.478	7.902E-114	Gm26804	2.4435E-53	-1.86766906	0.679	0.933	5.7957E-49
H2-D1	7.967E-117	3.93166037	1	0.671	1.89E-112	Cdk1	3.8776E-50	-1.12340015	0.89	0.994	9.1972E-46
Ly6a	1.355E-116	6.64568111	0.943	0.061	3.215E-112	Frmpd4	3.7049E-46	-1.35715027	0.841	0.968	8.7878E-42
ligp1	5.053E-111	7.79905609	0.898	0.015	1.199E-106	Col4a4	8.2745E-46	-1.24674679	0.885	0.985	1.9626E-41
Psmb8	1.85E-101	5.23726747	0.885	0.085	4.3882E-97	Ddx5	1.0003E-42	-1.00417231	0.896	0.991	2.3726E-38
H2-Ab1	1.4109E-97	7.86013674	0.822	0.015	3.3465E-93	Sim1	1.1811E-42	-1.29301316	0.697	0.962	2.8014E-38
Ifitm3	2.1048E-97	4.49291198	0.901	0.157	4.9923E-93	Nckap5	2.3245E-42	-1.58605525	0.687	0.93	5.5134E-38
Gbp2b	1.3285E-96	7.20745653	0.828	0.029	3.1511E-92	Kcnq1ot1	4.3643E-40	-1.74633478	0.551	0.901	1.0352E-35
H2-T23	7.0531E-96	5.42842904	0.856	0.087	1.6729E-91	Gprn3	2.4029E-39	-2.02336701	0.274	0.717	5.6993E-35
H2-Aa	2.1928E-95	7.92096024	0.807	0.006	5.201E-91	Mpped2	5.0627E-39	-1.49465545	0.689	0.948	1.2008E-34
H2-Eb1	4.37E-94	7.5999469	0.804	0.017	1.0365E-89	Fgfr2	3.3007E-38	-1.11703635	0.948	0.997	7.8288E-34
Ly6e	6.9326E-93	4.84830708	0.862	0.131	1.6443E-88	Tnn	2.6497E-37	-5.07938438	0.026	0.408	6.2847E-33
Stat1	1.0529E-81	4.29520065	0.838	0.192	2.4974E-77	Peli2	2.7188E-37	-1.77374547	0.559	0.869	6.4488E-33
Irgm1	1.9973E-81	5.25779595	0.781	0.079	4.7375E-77	Pax2	4.166E-36	-1.04155226	0.872	0.983	9.8814E-32
Psmb9	5.3335E-79	5.00825286	0.765	0.085	1.2651E-74	Sox6	5.1272E-32	-1.16413462	0.901	0.974	1.2161E-27
Fth1	8.7262E-77	1.60302051	0.997	0.898	2.0698E-72	Pdcd4	5.1895E-32	-1.72454746	0.397	0.764	1.2309E-27
Tapbp	2.2889E-76	2.60738837	0.909	0.557	5.4291E-72	Tpd52l1	2.4797E-31	-1.15638072	0.648	0.907	5.8815E-27
Ubd	4.3988E-73	10.0142407	0.661	0	1.0433E-68	Myh10	1.7313E-30	-1.13067899	0.684	0.93	4.1064E-26
Lcn2	5.4782E-73	3.35022164	0.893	0.458	1.2994E-68	Lmo7	2.7419E-29	-1.07434071	0.778	0.927	6.5035E-25
Actb	1.5559E-69	1.66364721	0.99	0.854	3.6905E-65	Nedda1	1.4084E-27	-1.2694092	0.841	0.953	3.3405E-23
Calr	5.4287E-68	2.2008821	0.93	0.641	1.2876E-63	Frem2	2.6376E-25	-1.56056422	0.426	0.735	6.2562E-21
Spp1	4.5022E-67	1.93307495	0.997	0.685	1.0679E-62	Apela	5.3759E-25	-1.04786143	0.614	0.889	1.2751E-20
Ftl1	2.8841E-66	1.67346391	0.971	0.679	6.8407E-62	Dab1	7.8161E-25	-1.08725889	0.781	0.945	1.8539E-20
Tap1	3.1078E-65	5.3796933	0.65	0.035	7.3714E-61	Ppp1r9a	5.0573E-24	-1.0313658	0.731	0.915	1.1995E-19
mt-Co1	6.4317E-65	1.86283177	0.974	0.726	1.5255E-60	Lysmd4	6.0097E-24	-1.89254161	0.201	0.548	1.4254E-19
Irgm2	1.874E-64	5.80851018	0.637	0.032	4.4449E-60	Gsm20725	6.9856E-24	-1.62436843	0.316	0.665	1.6569E-19
Parp14	5.1944E-64	3.36196396	0.775	0.21	1.2321E-59	Map2	2.1853E-23	-1.24779495	0.436	0.761	5.1832E-19
Rpl14	1.2224E-62	1.85041366	0.956	0.647	2.8994E-58	Hdac7	3.1617E-23	-1.01958833	0.608	0.863	7.4991E-19
Bst2	4.7426E-62	4.09362162	0.681	0.087	1.1249E-57	Gm4876	3.405E-23	-2.68145718	0.112	0.426	8.0764E-19
Gbp2	6.3192E-62	5.89282645	0.614	0.023	1.4988E-57	Gm35188	3.9858E-23	-1.55100543	0.332	0.668	9.4538E-19
mt-Co3	1.7925E-59	1.89960988	0.966	0.659	4.2516E-55	Rgs11	4.0812E-23	-1.90062007	0.308	0.615	9.6801E-19
Psmb10	5.28E-58	4.36361532	0.648	0.085	1.2524E-53	Ranbp3l	5.8357E-23	-1.85141289	0.708	0.778	1.3842E-18
Rps20	1.264E-57	1.59795502	0.948	0.671	2.9981E-53	Gm16599	1.1237E-22	-1.5841765	0.321	0.662	2.6653E-18
mt-Atp6	2.2031E-57	1.59301581	0.982	0.784	5.2256E-53	Gm15261	1.3541E-22	-1.99720685	0.232	0.56	3.2117E-18
Tmsb4x	3.4892E-57	1.24861358	1	0.918	8.2759E-53	Tox3	2.4538E-22	-1.95745701	0.227	0.554	5.8203E-18
Tap2	2.0133E-56	4.20439381	0.666	0.125	4.7753E-52	Gm44511	2.7901E-22	-1.57167029	0.324	0.656	6.6178E-18
Gbp7	6.8802E-56	5.48814844	0.587	0.041	1.6319E-51	Gm48678	2.7946E-22	-1.87653484	0.209	0.542	6.6284E-18
Sdc4	2.2398E-54	1.7454614	0.909	0.601	5.3125E-50	Hnmprr	6.3814E-22	-1.29044836	0.601	0.837	1.5136E-17
Rpl27a	1.3141E-53	1.62813082	0.919	0.7	3.1169E-49	Sorbs2os	1.8235E-21	-1.96705414	0.23	0.548	4.3251E-17
Tmem176b	3.4624E-53	1.76898357	0.909	0.598	8.2124E-49	Epsb1	2.4426E-21	-1.50446117	0.282	0.609	5.7935E-17
Ifi44	1.7039E-52	3.19999599	0.637	0.085	4.0414E-48	Tmem117	3.6785E-21	-1.8516448	0.512	0.743	8.7249E-17
S100a11	1.0427E-51	1.5163805	0.956	0.77	2.4732E-47	Gprc5b	1.0175E-20	-1.32698412	0.389	0.691	2.4135E-16
Nrg1	1.0798E-51	1.51655299	0.932	0.688	2.5611E-47	Chst9	1.1997E-20	-1.50495685	0.366	0.673	2.8455E-16
Irf1	7.8776E-51	4.04294317	0.637	0.128	1.8685E-46	Galnt18	1.4084E-20	-1.14243483	0.705	0.886	3.3406E-16
Wfdc2	1.388E-50	1.40890824	0.979	0.907	3.2922E-46	Gm38304	1.4346E-20	-3.14943138	0.063	0.327	3.4028E-16
Rnf123	2.3683E-48	2.69380096	0.757	0.332	5.6173E-44	Tfdp2	1.6611E-20	-1.45616644	0.436	0.717	3.94E-16
Isg15	2.9385E-48	3.75790386	0.551	0.047	6.9699E-44	Gm26733	1.8682E-20	-1.38313484	0.379	0.694	4.4312E-16
Rplp1	1.8535E-47	1.44303635	0.937	0.676	4.3964E-43	Dnm3	7.266E-20	-1.66157474	0.533	0.697	1.7234E-15
Mt1	4.841E-47	3.96172983	0.687	0.195	1.1482E-42	Fam196a	7.3404E-20	-1.82549028	0.183	0.501	1.7411E-15
Rps29	8.7865E-47	1.31527923	0.961	0.799	2.0841E-42	Abcc5	7.9003E-20	-1.28841862	0.384	0.682	1.8739E-15
H2-Q4	1.5838E-46	4.2332596	0.551	0.061	3.7655E-42	Tef	9.9068E-20	-1.82964177	0.151	0.458	2.3498E-15
Cd52	2.8449E-46	7.57277672	0.467	0.003	6.7479E-42	Cpeb3	1.3409E-19	-1.18102476	0.441	0.764	3.1804E-15
Tnfrsf10	1.694E-45	2.08785477	0.817	0.44	4.0181E-41	Argl1	1.4512E-19	-1.30759465	0.436	0.708	3.4422E-15
Tpt1	4.7083E-45	1.11381943	0.974	0.843	1.1168E-40	Mecomos	1.6731E-19	-2.42771666	0.102	0.376	3.9685E-15
Plac8	8.5133E-45	5.17808226	0.507	0.041	2.0193E-40	Gm12353	1.7884E-19	-1.60230167	0.238	0.548	4.2418E-15
Plet1	1.1455E-44	1.7272743	0.95	0.755	2.7171E-40	Tdrd3	2.1479E-19	-1.14218721	0.567	0.81	5.0946E-15
Rpsa	5.0762E-44	1.60119085	0.903	0.615	1.204E-39	Akap8l	3.8006E-19	-1.20569068	0.41	0.714	9.0147E-15
Gm10073	1.055E-43	1.35550037	0.919	0.708	2.5023E-39	Gm20395	3.9733E-19	-1.86518909	0.151	0.446	9.4244E-15
Gm42418	2.5061E-43	1.08235012	1	0.997	5.9443E-39	Gm15283	4.0012E-19	-1.13959704	0.522	0.793	9.4903E-15
Rps19	3.0394E-43	1.57086118	0.877	0.58	7.2091E-39	Arhgap24	4.1509E-19	-1.10064249	0.768	0.918	9.8454E-15
Napsa	1.4745E-42	2.0931859	0.836	0.443	3.4973E-38	Gm38102	5.8173E-19	-3.01314764	0.044	0.283	1.3798E-14
Olfr56	2.8374E-42	5.70556115	0.465	0.023	6.73E-38	Gm20732	1.2287E-18	-1.04049551	0.59	0.84	2.9144E-14
Oasl2	2.9912E-42	4.09593859	0.491	0.032	7.0948E-38	Rhcg	1.5917E-18	-1.56131189	0.326	0.606	3.7754E-14
Tmem176a	3.7174E-42	1.37822234	0.924	0.662	8.8174E-38	9030025P20Ri	2.7463E-18	-2.01731711	0.12	0.394	6.514E-14
mt-Co2	6.2835E-42	1.49009168	0.927	0.647	1.4904E-37	Pantr1	3.6496E-18	-2.20709312	0.099	0.362	8.6564E-14
Gbp3	5.2799E-41	5.95795894	0.439	0.012	1.2523E-36	Wnt9b	1.0348E-17	-1.71246104	0.204	0.493	2.4545E-13
Clu	6.3242E-41	2.60463528	0.77	0.411	1.5E-36	Magi2	1.1448E-17	-1.32665495	0.674	0.866	2.7153E-13
Rps27a	7.1601E-41	1.28861109	0.927	0.711	1.6983E-36	Rufy2	1.3875E-17	-1.50272948	0.232	0.528	3.2911E-13
Clic1	1.2667E-40	1.73645727	0.836	0.569	3.0044E-36	Egfrs	1.5478E-17	-2.14454003	0.164	0.431	3.6711E-13
Rps27rt	2.3897E-40	1.25254725	0.935	0.758	5.6681E-36	Gm47167	1.8162E-17	-2.27285628	0.107	0.364	4.3079E-13
Rpl27-ps3	8.3612E-40	1.45448805	0.872	0.598	1.9832E-35	Hoxb4	2.2885E-17	-1.0470518	0.433	0.729	5.428E-13
Rpl18	2.1878E-39	1.31472705	0.911	0.694	5.1893E-35	Sycp3	2.4067E-17	-1.56292324	0.269	0.554	5.7084E-13
Wdr89	2.6778E-39	1.24406821	0.927	0.708	6.3514E-35	Ces1d	2.4774E-17	-2.72737488	0.042	0.268	5.8762E-13
Rpl41	3.0483E-39	1.11205944	0.974	0.816	7.2303E-35	Gm12145	3.0799E-17	-2.13942822	0.151	0.42	7.3053E-13
Tmsb10	4.5159E-39	2.97648542	0.582	0.14	1.0711E-34	4930486i03Rik	5.6863E-17	-1.50016762	0.303	0.592	1.3487E-12
Rps23	1.9192E-38	1.42991713	0.883	0.638	4.5521E-34	Gsta3	6.4866E-17	-1.86830869	0.099	0.359	1.5385E-12
Pdia3	2.1011E-38	1.79781256	0.773	0.475	4.9837E-34	Pl4k2b	8.3265E-17	-1.19456777	0.486	0.714	1.975E-12
Gm4951	2.3467E-38	8.16972609	0.399	0.003	5.5662E-34	Leng8	9.2261E-17	-1.09010488	0.277	0.58	2.1883E-12
Rpl32	3.4892E-38	1.26877008	0.922	0.738							

Pgk1	1.0537E-35	1.78208467	0.773	0.478	2.4993E-31	1700039E22Ri	2.6402E-15	-4.56702525	0.008	0.172	6.2624E-11
Tubb5	1.3389E-35	2.92753113	0.587	0.187	3.1757E-31	Snhg20	2.6582E-15	-1.55430665	0.164	0.423	6.305E-11
Irf7	2.2517E-35	4.16305272	0.423	0.029	5.3407E-31	Fam234a	2.7108E-15	-1.22018073	0.439	0.691	6.4298E-11
Rps8	4.4531E-35	1.06069871	0.945	0.761	1.0562E-30	Kyat1	2.7681E-15	-1.71997049	0.128	0.379	6.5656E-11
Rpl4	6.5052E-35	1.56426226	0.802	0.531	1.543E-30	4933417013Ri	2.9341E-15	-1.6550632	0.159	0.42	6.9594E-11
Acfad	6.6541E-35	1.26136742	0.885	0.662	1.5783E-30	Gm36975	2.9593E-15	-1.34229544	0.475	0.708	7.0192E-11
Ifi44l	7.6175E-35	3.1461821	0.535	0.128	1.8068E-30	Gm15886	2.9679E-15	-1.81770079	0.084	0.321	7.0396E-11
Heph	1.7135E-34	1.54355209	0.789	0.519	4.0643E-30	Gm31224	5.284E-15	-2.23740075	0.094	0.324	1.2533E-10
Pfn1	2.1588E-34	1.46574269	0.849	0.644	5.1204E-30	Gm11536	5.705E-15	-2.21056269	0.099	0.327	1.3532E-10
Serping1	2.5509E-34	5.46960858	0.381	0.012	6.0505E-30	Zfp973	5.7931E-15	-1.5566778	0.188	0.443	1.3741E-10
Gbp8	2.7708E-34	5.01820866	0.399	0.023	6.572E-30	Plxna4	5.9291E-15	-1.72158578	0.136	0.385	1.4063E-10
S100a10	4.1023E-34	2.24521384	0.655	0.268	9.7302E-30	Myo3b	6.1918E-15	-1.20920132	0.282	0.566	1.4686E-10
Pkm	4.6695E-34	1.53344118	0.83	0.697	1.1075E-29	Dopey2	7.741E-15	-1.46521966	0.292	0.545	1.8361E-10
Tapbp1	6.4701E-34	3.70255902	0.457	0.064	1.5346E-29	Em15	1.9485E-14	-1.13162068	0.345	0.627	4.6215E-10
Rpl19	6.6721E-34	1.10277476	0.937	0.767	1.5825E-29	Fam105a	1.9733E-14	-1.58980806	0.206	0.461	4.6806E-10
Rpl22	1.7994E-33	1.39130918	0.833	0.606	4.2679E-29	Gm32569	2.5662E-14	-1.94661908	0.084	0.306	6.0867E-10
Rps15	6.0312E-33	1.09390001	0.922	0.72	1.4305E-28	Gm26693	3.06E-14	-2.58174987	0.037	0.224	7.258E-10
Scand1	1.838E-32	1.58222535	0.768	0.443	4.3595E-28	Phactr1	3.2307E-14	-1.40713209	0.862	0.93	7.6629E-10
Rps3	2.4723E-32	1.16172448	0.869	0.656	5.864E-28	Pgap1	3.4265E-14	-1.06388393	0.366	0.63	8.1273E-10
Lyz2	4.3048E-32	6.43768031	0.35	0.006	1.0211E-27	Cd59b	5.486E-14	-1.59287438	0.131	0.364	1.3012E-09
Gpx1	1.5202E-31	1.59615764	0.773	0.461	3.6057E-27	Osbpl1a	7.1369E-14	-1.13524577	0.339	0.589	1.6928E-09
Dbi	1.7305E-31	1.49219147	0.849	0.566	4.1045E-27	Ipce1f	7.8671E-14	-1.90636522	0.183	0.423	1.866E-09
H2-T22	2.3685E-31	3.80346257	0.431	0.061	5.6178E-27	Phykpl	8.141E-14	-1.40177792	0.154	0.399	1.931E-09
Ctss	2.8833E-31	4.96374681	0.366	0.017	6.839E-27	Rsf1os1	9.7651E-14	-2.0974626	0.089	0.3	2.3162E-09
Rpl11	3.2287E-31	1.33774107	0.809	0.551	7.6581E-27	Col27a1	1.0104E-13	-2.00418243	0.073	0.28	2.3965E-09
Pat12	7.5178E-31	4.10357682	0.386	0.032	1.7831E-26	Oprm1	1.1048E-13	-2.80176971	0.068	0.262	6.2605E-09
Umod	8.2624E-31	2.14425191	0.757	0.423	1.9598E-26	1700085D07Ri	1.1188E-13	-3.04986806	0.021	0.187	2.6537E-09
Cldn7	9.5083E-31	1.6230255	0.77	0.519	2.2553E-26	Gm15640	2.7152E-13	-4.20708483	0.013	0.163	6.4401E-09
mt-Nd4	9.7863E-31	1.07644487	0.94	0.77	2.3212E-26	Kif12	3.3068E-13	-1.06780148	0.232	0.501	7.8433E-09
Rpl17	1.3911E-30	1.4482939	0.799	0.542	3.2995E-26	Pard3bos1	3.6303E-13	-2.07025481	0.081	0.286	8.6107E-09
Rps16	1.9346E-30	1.39598489	0.82	0.598	4.5888E-26	Fndc9	4.4887E-13	-1.77501874	0.136	0.362	1.0647E-08
Tspo	2.0067E-30	1.4988593	0.791	0.513	4.7597E-26	Gm71227	4.5144E-13	-1.81957143	0.099	0.315	1.0708E-08
Serf2	2.8293E-30	1.08739254	0.89	0.694	6.7109E-26	Far1os	4.7616E-13	-1.51786976	0.136	0.367	1.1294E-08
Ula2g16	4.2062E-30	3.87585215	0.413	0.058	9.9767E-26	Gm26518	4.7988E-13	-1.2990694	0.24	0.496	1.1382E-08
Plac	1.8217E-29	1.5097046	0.786	0.551	4.3208E-25	Lyst	4.9047E-13	-1.50720784	0.483	0.711	1.1633E-08
Dtx3l	2.1114E-29	3.03845174	0.441	0.079	5.0081E-25	Prkd1	6.0882E-13	-1.4421938	0.264	0.499	1.444E-08
Sh3bgrl3	2.6994E-29	1.75958714	0.736	0.452	6.4026E-25	Per2	6.2187E-13	-2.02972022	0.099	0.309	1.475E-08
Cd274	3.0287E-29	5.42916495	0.334	0.012	7.1839E-25	Scel	6.2698E-13	-2.46962992	0.07	0.265	1.4871E-08
Cxcl10	3.1786E-29	8.97185777	0.311	0	7.5393E-25	Cog7	6.2912E-13	-1.39470481	0.394	0.601	1.4922E-08
Serpina3g	5.936E-29	8.4997864	0.308	0	1.408E-24	Npy	6.3568E-13	-1.71926057	0.12	0.341	1.5078E-08
Ier3	1.3672E-28	1.95434713	0.663	0.321	3.2428E-24	Gm4524	7.4658E-13	-3.07787605	0.018	0.172	1.7708E-08
Rplp0	1.6126E-28	1.14328102	0.885	0.697	3.8248E-24	Gm13262	7.6711E-13	-2.15716328	0.05	0.233	1.8195E-08
Gpx4	2.008E-28	1.57088133	0.734	0.423	4.7628E-24	Gm48094	8.8657E-13	-1.70379554	0.204	0.431	2.1029E-08
Parp9	2.0739E-28	2.31555278	0.59	0.23	4.9191E-24	Sh3gl2	9.5088E-13	-1.02869832	0.413	0.653	2.2554E-08
Gm11361	2.0874E-28	1.12320378	0.856	0.624	4.951E-24	Gm26749	1.0081E-12	-1.70510894	0.084	0.292	2.3911E-08
Rpl9-ps6	2.4587E-28	1.12007081	0.885	0.676	5.8317E-24	lqcm	1.0371E-12	-2.75587196	0.026	0.187	2.4599E-08
Rps9	7.7256E-28	1.06118293	0.906	0.706	1.8324E-23	Gm35164	1.099E-12	-3.90028037	0.008	0.146	2.6066E-08
Gpx3	1.5755E-27	1.3209895	0.958	0.892	3.737E-23	Akr1c19	1.7477E-12	-1.64084546	0.175	0.402	4.1455E-08
H2-DMa	1.7696E-27	5.86894136	0.316	0.012	4.1973E-23	Gm26699	1.8518E-12	-1.4383034	0.141	0.37	4.3924E-08
Taf1c	2.8482E-27	1.51253128	0.731	0.443	6.7555E-23	Gpc5	2.0132E-12	-1.20814701	0.415	0.65	4.7751E-08
Herc6	3.2577E-27	2.72096846	0.525	0.172	7.727E-23	Gm10135	2.1856E-12	-2.65860598	0.034	0.198	5.1841E-08
Ccl5	4.4889E-27	8.18788586	0.29	0	1.0647E-22	Gm37494	2.9071E-12	-1.17358091	0.227	0.464	6.8954E-08
Hsp90b1	1.1175E-26	1.32888452	0.804	0.65	2.6505E-22	1700110K17Ri	3.655E-12	-3.24158395	0.021	0.169	8.6694E-08
Rpl28	3.7828E-26	1.02064936	0.885	0.778	8.9725E-22	Mgat4c	4.0243E-12	-1.74645346	0.319	0.534	9.5453E-08
Rps4x	4.3969E-26	1.21665565	0.822	0.615	1.0429E-21	Unc5c	4.4168E-12	-2.19814087	0.131	0.338	1.0476E-07
Tagln2	5.2717E-26	2.67130065	0.488	0.155	1.2504E-21	2610020C07Ri	4.716E-12	-1.23841397	0.201	0.443	1.1186E-07
Elf3	5.5517E-26	2.2775235	0.606	0.286	1.3168E-21	4933423P22Ri	4.7909E-12	-1.76822865	0.091	0.292	1.1363E-07
B4galc	8.4604E-26	1.61344206	0.7	0.399	2.0067E-21	B4galnt3	5.7031E-12	-1.3753639	0.17	0.397	1.3527E-07
Nampt	1.6403E-25	1.83301575	0.606	0.259	3.8905E-21	Caboco1	5.9949E-12	-1.56338314	0.222	0.446	1.4219E-07
H2-Q6	1.8962E-25	4.87045814	0.308	0.017	4.4975E-21	4930557K07Ri	6.1905E-12	-1.61207362	0.115	0.318	1.4683E-07
Vcam1	2.8117E-25	4.75902719	0.292	0.009	6.6692E-21	Daam2	6.428E-12	-2.44682182	0.047	0.213	1.5247E-07
Tpi1	3.0968E-25	1.38434503	0.781	0.601	7.3453E-21	Cdc66c	6.4684E-12	-1.2193869	0.193	0.426	1.5342E-07
Rps5	4.6487E-25	1.21433709	0.791	0.583	1.1026E-20	Zbtb16	6.6159E-12	-1.90541999	0.104	0.303	1.5692E-07
Gm16685	5.4917E-25	4.54902019	0.324	0.029	1.3026E-20	Cr2	7.7359E-12	-2.12285762	0.052	0.224	1.8349E-07
Rack1	6.2067E-25	1.18810139	0.796	0.525	1.4722E-20	Fam117a	8.3495E-12	-1.32251875	0.198	0.429	1.9804E-07
Mt2	7.9179E-25	4.90596288	0.339	0.041	1.878E-20	Farp2	9.703E-12	-1.18053289	0.235	0.472	2.3015E-07
Rtp4	7.0102E-24	3.30819006	0.358	0.055	1.6628E-19	Kcnn3	1.1649E-11	-4.27984004	0.01	0.14	2.7631E-07
Muc4	8.8045E-24	5.04654556	0.3	0.023	2.0883E-19	4930426D05Ri	1.2863E-11	-1.91915333	0.076	0.262	3.0509E-07
Ifit3	9.5915E-24	3.58144249	0.339	0.044	2.275E-19	Gm13269	1.3643E-11	-1.53473049	0.154	0.367	3.2361E-07
Epsti1	1.1155E-23	1.85399258	0.556	0.219	2.6458E-19	Gm45025	1.6132E-11	-2.07499814	0.047	0.213	3.8263E-07
Cxcl9	1.1207E-23	8.04169362	0.256	0	2.6583E-19	Epor	1.6899E-11	-1.20099004	0.258	0.487	4.0082E-07
Ppa1	1.7036E-23	2.78344968	0.415	0.102	4.0408E-19	4930595D18Ri	1.8123E-11	-2.4327619	0.029	0.178	4.2987E-07
Tgm2	3.7245E-23	4.52742829	0.305	0.029	8.8342E-19	Xrcc6	1.8756E-11	-1.26158306	0.332	0.554	4.488E-07
Tacstd2	3.8638E-23	1.0865628	0.836	0.644	9.1646E-19	Gm26573	2.1151E-11	-1.37550346	0.178	0.397	5.0169E-07
Il18bp	4.8693E-23	3.75682855	0.334	0.047	1.155E-18	Ptprr	2.228E-11	-4.21396192	0.01	0.137	5.2845E-07
Pigr	4.8727E-23	3.69478692	0.347	0.055	1.1558E-18	1700126G02Ri	2.519E-11	-1.86824395	0.076	0.257	5.9749E-07
Piscr2	5.1405E-23	1.25090824	0.768	0.522	1.2193E-18	Gm47350	2.8733E-11	-2.20645825	0.037	0.192	6.8151E-07
C3	5.2466E-23	4.80296021	0.285	0.017	1.2444E-18	Sgk1	2.9099E-11	-1.1962121	0.347	0.571	6.9021E-07
Rpl39	5.4195E-23	1.27820733	0.744	0.51	1.2855E-18	Rnpc3	3.1708E-11	-1.16690111	0.144	0.364	7.5207E-07
Plcb1	6.1537E-23	1.32983586	0.789	0.624	1.4596E-18	Kcnipl4	3.2211E-11	-1.41721706	0.11	0.309	7.6402E-07
Sspl2a	8.347E-23	1.4287767	0.739	0.525	1.9798E-18	Tle2	3.4027E-11	-1.10269828	0.141	0.359	8.071E-07
B3gnt7	8.488E-23	2.75980697	0.41	0.102	2.0133E-18	AC110166.2	4				

Tgtp2	2.1579E-21	7.48553758	0.232	0	5.1183E-17	Gm20404	1.9547E-10	-2.09827353	0.047	0.201	4.6364E-06
G3bp2	2.4617E-21	1.33155351	0.713	0.516	5.8389E-17	RalyI	2.0254E-10	-1.87091507	0.149	0.341	4.8041E-06
Gpi1	2.5393E-21	1.25161979	0.747	0.574	6.0229E-17	Zfp398	2.0307E-10	-1.00744724	0.261	0.496	4.8165E-06
Ddx60	2.8294E-21	3.85672203	0.295	0.032	6.711E-17	Gm16093	2.1408E-10	-1.44711116	0.086	0.271	5.0778E-06
Rps25	3.0417E-21	1.01428357	0.812	0.621	7.2145E-17	Gm26561	2.3583E-10	-1.05284737	0.522	0.72	5.5936E-06
Gnal2	6.2789E-21	1.64219853	0.632	0.394	1.4893E-16	AC162302.1	2.518E-10	-1.03161777	0.167	0.391	5.9724E-06
Actg1	7.5354E-21	1.06521919	0.828	0.668	1.7873E-16	Gm13856	2.7182E-10	-2.88944435	0.023	0.155	6.4472E-06
Cyba	7.7398E-21	1.85273669	0.582	0.297	1.8358E-16	Spta1	2.8248E-10	-1.86983448	0.078	0.248	6.7003E-06
Aprt	9.7024E-21	2.81440449	0.407	0.122	2.3013E-16	Slc4a5	3.4223E-10	-1.6197134	0.125	0.315	8.1174E-06
Gng5	1.3916E-20	1.2686656	0.718	0.504	3.3008E-16	Gm15581	3.8813E-10	-2.04009048	0.081	0.248	9.206E-06
Tecpr2	1.5802E-20	1.30466019	0.739	0.528	3.748E-16	Slc25a27	4.1016E-10	-2.04262946	0.055	0.21	9.7286E-06
Nlrc4	1.5942E-20	1.20764475	0.731	0.493	3.7814E-16	Gm12264	4.4671E-10	-2.71748278	0.026	0.157	1.0596E-05
Rpl11	2.0325E-20	1.03649629	0.802	0.641	4.8208E-16	Gm14211	4.6256E-10	-2.04614611	0.068	0.23	1.0972E-05
Lamp2	2.0689E-20	1.16345482	0.817	0.673	4.9071E-16	Coch	4.6938E-10	-4.41149685	0.005	0.111	1.1133E-05
Gna13	3.2439E-20	1.34026404	0.739	0.595	7.6942E-16	AC144408.3	4.8918E-10	-2.41366454	0.029	0.163	1.1603E-05
Cstb	3.5733E-20	1.76292741	0.574	0.297	8.4756E-16	Col11a1	4.9196E-10	-1.72301869	0.078	0.248	1.1669E-05
Nd1-Nd1	4.5966E-20	1.39487722	0.726	0.475	1.0903E-15	Pcbp3	6.4638E-10	-1.02009957	0.366	0.592	1.5332E-05
Grn	6.7617E-20	1.53110357	0.621	0.353	1.6038E-15	Col26a1	6.9257E-10	-1.21787614	0.371	0.554	1.6427E-05
Psmb5	7.8475E-20	1.52779332	0.614	0.341	1.8614E-15	Gm39214	7.729E-10	-2.11816528	0.034	0.172	1.8333E-05
S100a6	8.121E-20	1.93650434	0.747	0.458	1.9262E-15	Wscd2	8.0885E-10	-1.15414575	0.253	0.466	1.9185E-05
Lars2	8.9591E-20	1.05466469	0.799	0.621	2.125E-15	Vamp2	8.6297E-10	-1.2733317	0.204	0.399	2.0469E-05
Socsl1	2.305E-19	5.53034771	0.23	0.009	5.4672E-15	Cacna1d	8.9162E-10	-1.10741846	0.345	0.536	2.1148E-05
Psm7	2.4101E-19	1.4789685	0.655	0.431	5.7165E-15	Nr6a1os	9.0356E-10	-1.23351336	0.133	0.327	2.1432E-05
Rpl26	3.3462E-19	1.196471	0.723	0.513	7.9369E-15	4932443L11Ril	9.1169E-10	-3.1036005	0.021	0.143	2.1624E-05
H2-DMb2	3.6754E-19	7.45435577	0.209	0	8.7178E-15	Eaf2	1.0233E-09	-1.70876578	0.097	0.268	2.4272E-05
Rpn1	7.5996E-19	1.40105741	0.653	0.426	1.8025E-14	C230088H06Ri	1.1677E-09	-1.65600458	0.076	0.239	2.7696E-05
Ppiib	9.2979E-19	1.15509061	0.739	0.566	2.2054E-14	Mier3	1.1882E-09	-1.26064906	0.261	0.464	2.8183E-05
C1qb	1.1211E-18	5.66302515	0.217	0.006	2.659E-14	6530409C15Ri	1.3577E-09	-1.41723536	0.144	0.329	3.2204E-05
Mvp	1.3902E-18	1.61489675	0.561	0.277	3.2974E-14	H2-Ke6	1.37E-09	-1.40029478	0.081	0.251	3.2495E-05
Uqcr10	1.9449E-18	1.03066762	0.747	0.472	4.6132E-14	AC157554.2	1.7037E-09	-2.03828878	0.06	0.21	4.0409E-05
Apo2	2.691E-18	2.33320429	0.389	0.117	6.3827E-14	Tbck	1.7629E-09	-1.58374587	0.567	0.761	4.1814E-05
Ifnar1	2.942E-18	1.88518684	0.556	0.309	6.9782E-14	Ints6f	1.8263E-09	-1.02414839	0.206	0.414	4.3317E-05
Pomp	3.5636E-18	1.55370412	0.572	0.3	8.4525E-14	Gm15563	2.023E-09	-1.32880087	0.097	0.271	4.7983E-05
Ifit1	5.5513E-18	2.89623347	0.277	0.038	1.3167E-13	Gm14532	2.0628E-09	-2.03610166	0.042	0.181	4.8929E-05
Znfk1	9.5048E-18	1.3781516	0.634	0.42	2.2544E-13	Dock6	2.0799E-09	-1.29004632	0.151	0.344	4.9332E-05
Timm13	1.0356E-17	1.51630453	0.585	0.321	2.4564E-13	Al838599	2.1106E-09	-1.69068699	0.175	0.364	5.0062E-05
Gm12216	1.0574E-17	2.880647	0.321	0.073	2.5081E-13	1600010M07R	2.1273E-09	-1.33210636	0.151	0.341	5.0458E-05
Ctgf	1.3039E-17	1.79490684	0.52	0.233	3.0927E-13	Zdhc2	2.2498E-09	-2.33726508	0.097	0.259	5.3363E-05
Sumf1	1.3355E-17	1.06122806	0.77	0.615	3.1676E-13	9530026P05Ri	2.4092E-09	-1.23645175	0.478	0.63	5.7144E-05
Krt18	1.4717E-17	1.24908704	0.778	0.676	3.4907E-13	Sbspon	2.4114E-09	-1.08751148	0.36	0.554	5.7195E-05
Ifi27	2.1972E-17	1.74224769	0.462	0.181	5.2115E-13	4932422M17R	2.6629E-09	-2.30755909	0.039	0.172	6.3162E-05
Pycard	2.4156E-17	2.88708571	0.35	0.102	5.7295E-13	Gm26613	2.7186E-09	-2.06825899	0.039	0.175	6.4482E-05
Tubb4b	3.057E-17	1.60782429	0.546	0.283	7.251E-13	Lrrc4	3.6748E-09	-1.15316389	0.219	0.429	8.7162E-05
Nmi	3.7055E-17	1.9729015	0.473	0.213	8.7891E-13	Ppm1k	3.7457E-09	-1.17752853	0.146	0.335	8.8843E-05
Spag6l	4.4574E-17	1.14689014	0.697	0.513	1.0573E-12	Hoxb3os	3.9722E-09	-1.07164175	0.172	0.364	9.4216E-05
Apol6	5.5616E-17	7.23741288	0.185	0	1.3192E-12	Gm14410	4.5833E-09	-1.26607142	0.104	0.28	0.00010871
Psm1a	7.821E-17	1.44170412	0.593	0.362	1.8551E-12	Gm26836	5.3882E-09	-1.10454363	0.136	0.321	0.0001278
H117	8.9115E-17	1.04436861	0.76	0.636	2.1137E-12	B3galt2	5.5762E-09	-2.13210249	0.06	0.201	0.00013226
Rps14	1.047E-16	1.03046729	0.744	0.557	2.4833E-12	Pkdil3	5.6126E-09	-1.91858999	0.065	0.213	0.00013313
Ctsb	1.1281E-16	1.36362404	0.603	0.367	2.5757E-12	Tenm1	5.6675E-09	-4.271263697	0.008	0.105	0.00013443
Arhgdia	1.4887E-16	1.39884754	0.629	0.399	3.531E-12	Dnase1	6.1046E-09	-2.74536503	0.021	0.134	0.00014479
Zc3hav1	1.6124E-16	1.98329383	0.418	0.152	3.8244E-12	Gm9968	6.143E-09	-1.93093308	0.057	0.198	0.0001457
Shisa5	2.0194E-16	1.45613635	0.574	0.329	4.7899E-12	Abhd15	7.4019E-09	-1.15174514	0.167	0.353	0.00017557
Atpl1a	2.0339E-16	1.11604313	0.744	0.563	4.8242E-12	St3gal6	7.4087E-09	-1.12157122	0.159	0.344	0.00017573
Dnm1l	2.1367E-16	1.04077151	0.726	0.528	5.068E-12	Tifa	7.5758E-09	-1.69926619	0.089	0.248	0.00017969
Pfkf	2.1533E-16	1.76273778	0.522	0.277	5.1075E-12	AC153364.1	7.8468E-09	-1.9347216	0.052	0.19	0.00018612
H6pd	2.6304E-16	1.67998536	0.533	0.297	6.239E-12	Gm32647	7.9255E-09	-3.32232197	0.008	0.105	0.00018798
Arcp1b	2.9747E-16	1.40780072	0.64	0.431	7.0558E-12	Galm	9.0418E-09	-1.76898807	0.295	0.458	0.00021446
Mrpl14	3.2365E-16	1.44408519	0.546	0.277	7.6767E-12	Gm15614	9.6505E-09	-1.55402763	0.151	0.327	0.0002289
Tpm4	3.4345E-16	1.65997212	0.527	0.283	8.1463E-12	Cyp39a1	9.7966E-09	-1.08221706	0.178	0.367	0.00023237
Krt11	4.2314E-16	2.35850243	0.418	0.172	1.0037E-11	Fbxl12os	9.8825E-09	-2.33435629	0.042	0.169	0.0002344
Stat3	4.8818E-16	1.03095373	0.755	0.618	1.1579E-11	Cdc7c	1.1785E-08	-2.14970859	0.042	0.172	0.00027953
Ckd18	5.3882E-16	1.19611871	0.708	0.56	1.237E-11	Klhl3	1.1873E-08	-1.13727371	0.141	0.324	0.00028163
Atf5	6.2411E-16	3.11778384	0.261	0.044	1.4803E-11	Gm43713	1.2338E-08	-1.10798037	0.214	0.411	0.00029265
Batf2	8.8221E-16	3.60495319	0.243	0.035	2.0925E-11	Adam22	1.2455E-08	-1.68918241	0.136	0.3	0.00029541
Msn	1.1437E-15	2.25025347	0.428	0.181	2.7127E-11	Angptl2	1.292E-08	-1.63531104	0.057	0.198	0.00030645
Loxl2	1.1798E-15	2.71075708	0.258	0.044	2.7984E-11	Rasal1	1.3231E-08	-1.48242472	0.078	0.233	0.00031383
P4hb	1.2475E-15	1.61802357	0.556	0.327	2.9589E-11	Sytl6	1.4434E-08	-2.66519549	0.031	0.149	0.00034237
Gbp5	1.305E-15	5.03508548	0.191	0.009	3.0954E-11	Mbd4	1.4801E-08	-1.67101928	0.089	0.242	0.00035106
Ccl8	1.4822E-15	8.20824941	0.17	0	3.5156E-11	6720427I07Rik	1.5425E-08	-1.31278007	0.099	0.262	0.00036588
Bak1	1.5292E-15	3.21735586	0.266	0.052	3.627E-11	Grb14	1.6323E-08	-1.1664699	0.493	0.65	0.00038717
Ciita	1.7398E-15	4.41218736	0.211	0.02	4.1266E-11	Prrr1	1.7043E-08	-1.06040695	0.358	0.534	0.00040425
AU020206	1.8453E-15	4.0717696	0.217	0.023	4.3768E-11	AC161607.1	1.7262E-08	-1.60730057	0.131	0.297	0.00040943
Cd47	2.1856E-15	1.01781896	0.728	0.586	5.1839E-11	Gm16564	1.7843E-08	-2.17252907	0.029	0.146	0.00042322
Mpeg1	2.876E-15	5.27215036	0.18	0.006	6.8215E-11	Gm26835	1.7954E-08	-1.36155992	0.144	0.315	0.00042586
C4b	3.2051E-15	4.36134798	0.204	0.017	7.6022E-11	Cntnap2	1.8165E-08	-2.10391235	0.039	0.163	0.00043085
C1qa	3.3816E-15	6.74830101	0.172	0.003	8.0208E-11	Gm49334	2.2378E-08	-3.60864846	0.01	0.105	0.00053079
F830016B08R	3.5578E-15	6.01569197	0.172	0.003	8.4389E-11	Armt1	3.009E-08	-1.18563629	0.084	0.236	0.0007137
Snrpd2	4.3006E-15	1.30254279	0.603	0.379	1.0201E-10	6820408C15Ri	3.0701E-08	-1.21801468	0.138	0.306	0.00072819
Pabpc1	4.4778E-15	1.17717472	0.663	0.487	1.0621E-10	Ttn	3.1629E-08	-1.5443534	0.104	0.262	0.0007502
S100a1	4.9176E-15	1.17783042	0.742	0.56	1.1664E-10	Crybg1	3.2678E-08	-1.17322493	0.47	0.621	0.00077509
Dazap2	4.9665E-15	1.25702451	0.606	0.37</							

Ptprh	1.3801E-13	1.48304089	0.499	0.257	3.2735E-09	Gm42669	1.3897E-07	-1.97466429	0.047	0.166	0.00329621
Bnip3	1.4588E-13	2.01119118	0.371	0.149	3.4601E-09	Emf6	1.4223E-07	-1.13019623	0.211	0.391	0.0033735
Mrpl51	1.4726E-13	1.38389117	0.493	0.259	3.493E-09	Ednrb	1.5235E-07	-2.01997901	0.039	0.152	0.00361366
Slc39a1	1.6975E-13	1.6595384	0.462	0.236	4.0263E-09	Adgrv1	1.5592E-07	-2.85553514	0.016	0.108	0.0036983
Selenok	1.9276E-13	1.06169653	0.661	0.469	4.5721E-09	Neur14	1.6673E-07	-1.27804041	0.117	0.268	0.00395474
Tmprss4	2.0487E-13	4.47313154	0.172	0.012	4.8593E-09	Pcx	1.7652E-07	-1.10440935	0.313	0.487	0.00418687
Ifi5a	2.2213E-13	1.22416137	0.621	0.437	5.2686E-09	Ttc12	1.809E-07	-1.11769655	0.131	0.289	0.00429081
Hspa9	2.728E-13	1.03383082	0.671	0.507	6.4706E-09	Ddx23	1.8291E-07	-1.28055201	0.117	0.268	0.00433843
Jpt1	2.7598E-13	2.01992615	0.389	0.178	6.546E-09	Gm15810	1.9244E-07	-1.42434449	0.117	0.265	0.00456451
Tmem140	2.7673E-13	3.3612055	0.214	0.035	6.5639E-09	Sox5os4	2.0952E-07	-1.39222407	0.144	0.303	0.00496967
Snx10	2.863E-13	1.91881026	0.295	0.082	6.7907E-09	Smim5	2.5981E-07	-1.79040855	0.055	0.175	0.0061624
Eno1	3.0928E-13	1.04903322	0.629	0.455	7.3357E-09	Gm26668	2.8197E-07	-1.52745412	0.065	0.192	0.00668806
Hnnpab	3.2702E-13	1.07839467	0.648	0.478	7.7567E-09	Gm10785	2.9426E-07	-1.45389756	0.11	0.251	0.00697967
Tnfrsf1a	4.0381E-13	2.04664337	0.366	0.149	9.5779E-09	Gm16035	2.9756E-07	-2.10328062	0.021	0.117	0.00705793
Nenf	4.0796E-13	1.76539812	0.415	0.192	9.6764E-09	Fmn2	2.9904E-07	-1.11211003	0.321	0.504	0.00709303
Plau	4.5868E-13	1.79968282	0.394	0.166	1.088E-08	Gm16279	3.1024E-07	-1.11502162	0.068	0.201	0.00735865
Pfdn2	4.7541E-13	1.1463727	0.598	0.382	1.1276E-08	Gm47469	3.365E-07	-1.71267928	0.047	0.16	0.00798151
Ndufa8	6.2435E-13	1.15366578	0.593	0.402	1.4809E-08	Sfxn5	3.4427E-07	-1.25686818	0.185	0.35	0.00816563
Cdk2ap2	6.694E-13	1.89080667	0.347	0.128	1.5878E-08	Ring1	3.5674E-07	-1.21760924	0.104	0.248	0.00846151
Il13ra1	7.2756E-13	1.55559399	0.436	0.207	1.7257E-08	Gm13652	3.6173E-07	-1.05972824	0.107	0.251	0.00857986
Banf1	7.5374E-13	1.75247872	0.405	0.184	1.7878E-08	Zan	3.7258E-07	-1.70653381	0.042	0.152	0.00883714
Havcr1	7.9801E-13	5.21917153	0.164	0.012	1.8928E-08	Zfp511	3.947E-07	-1.21819321	0.086	0.222	0.0093619
Spink8	8.6059E-13	1.36132848	0.632	0.458	2.0412E-08	Gm10974	4.0846E-07	-2.27277835	0.034	0.137	0.00968824
Erap1	1.1701E-12	1.53335921	0.473	0.262	2.7754E-08	Angptl3	4.1963E-07	-2.2697691	0.029	0.128	0.00995311
Hist1h2bc	1.2115E-12	1.10939959	0.629	0.437	2.8735E-08	Far2	4.2485E-07	-1.54280432	0.06	0.181	0.01007693
Efh2d	1.3503E-12	1.98211671	0.363	0.152	3.2028E-08	4930533K18Ri	4.4033E-07	-1.10619323	0.12	0.268	0.01044419
Elob	1.3615E-12	1.31996703	0.574	0.399	3.2294E-08	3110021N24Ri	4.4235E-07	-1.76559938	0.055	0.172	0.01049211
Rps6	1.4696E-12	1.25651434	0.593	0.394	3.4856E-08	Egfm1	4.4404E-07	-2.49743853	0.099	0.236	0.01053222
Arf5	1.5514E-12	1.02258345	0.687	0.531	3.6797E-08	Gm10138	4.677E-07	-1.72419092	0.05	0.163	0.01109336
Idnk	1.5715E-12	1.85819251	0.376	0.166	3.7275E-08	Gm43376	4.8583E-07	-1.60744108	0.037	0.143	0.01152346
Tinagl1	1.6044E-12	2.96775135	0.266	0.076	3.8055E-08	D830024N08R	4.933E-07	-1.54066918	0.065	0.19	0.01170056
Jun	1.8585E-12	2.29821111	0.272	0.073	4.4083E-08	9230112J17Ri	5.0144E-07	-2.54636679	0.042	0.146	0.01189363
Vim	1.9003E-12	4.94775444	0.149	0.006	4.5073E-08	Sag	5.0237E-07	-2.40615793	0.018	0.108	0.01191563
Mrpl54	2.0267E-12	1.40646112	0.493	0.277	4.807E-08	Gm48677	5.2446E-07	-2.76427651	0.021	0.111	0.01243974
Emp2	2.2158E-12	1.99635698	0.337	0.125	5.2556E-08	Itgb2l	5.5233E-07	-2.07608354	0.055	0.169	0.01310067
Anxa2	2.311E-12	1.54889057	0.629	0.522	5.4814E-08	Exd1	5.6214E-07	-1.3220493	0.091	0.227	0.01333344
Pdia6	2.3895E-12	1.44645514	0.546	0.362	5.6677E-08	Gm13635	5.6545E-07	-1.57101026	0.029	0.128	0.01341192
Adamts1	2.5399E-12	2.11698299	0.232	0.05	6.0243E-08	Gpr63	5.9085E-07	-1.25598969	0.157	0.306	0.01401434
Ddit3	2.5838E-12	2.60860534	0.35	0.149	6.1284E-08	Gm29642	6.2484E-07	-2.11570544	0.031	0.131	0.01482059
Ftl1-ps1	2.8538E-12	1.87759426	0.368	0.157	6.7689E-08	Peg3	6.4132E-07	-1.65902779	0.052	0.166	0.01521138
Nfkbi2	2.8562E-12	1.76257807	0.415	0.204	6.7746E-08	Cdh13	6.6041E-07	-1.63496531	0.016	0.102	0.01566427
Gm40271	3.3413E-12	1.19680848	0.561	0.35	7.9251E-08	Gm26837	7.032E-07	-2.8409164	0.026	0.12	0.01667914
Phc2	3.4713E-12	1.1574236	0.582	0.388	8.2337E-08	Gm38604	7.3176E-07	-1.99352172	0.037	0.14	0.01735666
Mapkapk2	3.5999E-12	1.13373501	0.58	0.373	8.5385E-08	Gm37768	8.4914E-07	-1.75246994	0.078	0.201	0.02014081
Rcn1	3.7878E-12	1.69992443	0.433	0.222	8.9843E-08	Plcd3	9.3475E-07	-1.30809942	0.086	0.216	0.02217142
Slc13a1	3.7963E-12	2.52273644	0.392	0.184	9.0045E-08	Cnnm1	9.5815E-07	-1.07320512	0.227	0.385	0.02272628
Cct3	3.8227E-12	1.35948101	0.527	0.327	9.067E-08	Rap1gap2	9.6894E-07	-1.20437032	0.141	0.283	0.02298229
Ogfr	4.4492E-12	2.23064155	0.295	0.099	1.0553E-07	Igdc3	1.0091E-06	-1.52391615	0.05	0.16	0.02393518
Cd63	4.8755E-12	1.45104951	0.446	0.227	1.1564E-07	Svop1	1.0242E-06	-1.37522966	0.112	0.248	0.02429354
Gcnt1	5.3516E-12	1.84135432	0.433	0.227	1.2694E-07	Zfp846	1.0877E-06	-1.78517774	0.042	0.146	0.02579909
Psma5	5.5249E-12	1.74377696	0.394	0.19	1.3105E-07	Gm26532	1.1096E-06	-1.16424262	0.123	0.262	0.02631875
Rps28	6.1609E-12	1.19128157	0.572	0.373	1.4613E-07	Gm48321	1.1772E-06	-1.8664925	0.042	0.146	0.02792264
Psmg4	6.1964E-12	1.81210909	0.321	0.114	1.4697E-07	Gm49226	1.185E-06	-1.89542102	0.037	0.137	0.02810753
Cd14	7.2712E-12	2.02405849	0.347	0.143	1.7246E-07	Gm15347	1.2419E-06	-1.02823581	0.112	0.254	0.02945564
Gadd45gip1	7.7081E-12	2.26278279	0.287	0.093	1.8283E-07	Gm15446	1.2569E-06	-1.16662754	0.076	0.201	0.0298133
Abrac1	8.1353E-12	1.90511932	0.371	0.166	1.9296E-07	Dach1	1.3926E-06	-1.06647623	0.462	0.621	0.0330317
Plec	8.2492E-12	1.02621105	0.645	0.475	1.9566E-07	Atp8b5	1.5051E-06	-1.21110837	0.097	0.227	0.03570036
Sec11b	8.3491E-12	1.29437068	0.507	0.294	1.9803E-07	Ppp2r2b	1.5246E-06	-2.00230004	0.125	0.254	0.03616214
Capns1	1.0149E-11	1.0400842	0.632	0.458	2.4072E-07	Atp2b2	1.6076E-06	-1.86735938	0.11	0.236	0.03813148
Cxcl16	1.421E-11	1.40791732	0.486	0.283	3.3704E-07	Fndc7	1.6137E-06	-1.54412412	0.055	0.163	0.03827596
Fxyd5	1.452E-11	5.18953886	0.138	0.006	3.4439E-07	Slc6a12	1.7412E-06	-1.43159694	0.055	0.163	0.04129869
Lrrc59	1.4705E-11	1.96492795	0.347	0.155	3.4878E-07	Lingo2	1.8724E-06	-1.2351391	0.065	0.184	0.04441241
Fut8	1.5524E-11	1.06230616	0.619	0.42	3.6822E-07	Gm15601	1.9087E-06	-1.93885665	0.026	0.117	0.0452727
Prelid1	1.7354E-11	1.44240386	0.449	0.236	4.1162E-07	Rab30	1.9812E-06	-1.3430404	0.097	0.224	0.04699169
Nupr1	1.7646E-11	2.57487785	0.358	0.157	4.1855E-07						
Ifih1	1.845E-11	2.06695334	0.311	0.117	4.3762E-07						
Hbb-bs	2.1052E-11	6.50504623	0.123	0	4.9933E-07						
Tnfrsf19	2.1052E-11	7.08603885	0.123	0	4.9933E-07						
Prrr13	3.1604E-11	1.46085937	0.501	0.306	7.4961E-07						
Psmb4	3.3727E-11	1.34405596	0.499	0.312	7.9996E-07						
Kctd12	3.4076E-11	1.81957745	0.358	0.155	8.0825E-07						
Lap3	3.5934E-11	2.3261208	0.285	0.099	8.5231E-07						
Rex1bd	4.0247E-11	1.49484541	0.399	0.19	9.5461E-07						
Mkl1	5.1821E-11	3.44472033	0.146	0.012	1.2291E-06						
Tuba4a	5.2194E-11	1.72563135	0.407	0.21	1.238E-06						
Higd1a	5.4406E-11	1.48380913	0.465	0.277	1.2904E-06						
Gm2000	5.6321E-11	1.00159668	0.632	0.472	1.3359E-06						
Il7	5.7074E-11	4.56287986	0.138	0.009	1.3537E-06						
Rps26	5.8779E-11	1.02330648	0.629	0.466	1.3942E-06						
Coro1a	5.9403E-11	6.5026695	0.117	0	1.409E-06						
Psenen	6.0886E-11	1.03439253	0.601	0.417	1.4441E-06						
Oit1	6.6718E-11	2.64343649	0.217	0.052	1.5825E-06						
Tuba1c	7.1532E-11	1.76166775	0.355	0.16	1.6967E-06						
Sifn2	7.362E-11	2.08030522	0.217	0.05	1.7462E-06						
Acy3	7.9802E-11	1.59410079	0.452	0.268	1.8928E-06						
Hcfc1r1	8.2698E-11	1.30250954	0.47	0.268	1.9615E-06						
Fbxo6	8.654E-11	2.53066153	0.185	0.032	2.0526E-06						
Ifi35	9.5629E-11	1.65329015	0.379	0.181	2.2682E-06						
Upp1	9.6115E-11	4.45252294	0.136	0.009	2.2798E-06						
Rac2	9.9609E-11	6.53189334	0.115	0	2.3626E-06						
Akt1	1.0										

Selenow	4.0425E-10	1.26884504	0.46	0.257	9.5884E-06
Srp9	4.509E-10	1.37363282	0.452	0.265	1.0695E-05
Atp9a	4.8344E-10	1.0266216	0.556	0.382	1.1467E-05
Nudt19	5.0062E-10	1.67253448	0.366	0.178	1.1874E-05
Ly75	6.2801E-10	3.92210563	0.138	0.015	1.4896E-05
Ccng1	6.412E-10	1.13036434	0.467	0.271	1.5209E-05
Col1a2	6.4429E-10	3.97307596	0.12	0.006	1.5282E-05
Lgals1	7.3931E-10	2.06501214	0.269	0.096	1.7536E-05
Tubb2a	7.5571E-10	1.02558655	0.684	0.592	1.7925E-05
Fut2	7.6206E-10	3.47142864	0.159	0.026	1.8075E-05
Psma4	7.8695E-10	1.33464437	0.493	0.321	1.8666E-05
Ldhd	7.8744E-10	1.20190858	0.572	0.452	1.8677E-05
Rpl29	8.2993E-10	3.47317946	0.149	0.02	1.9685E-05
Ctsl	8.6176E-10	1.42865548	0.46	0.289	2.044E-05
Parp12	9.1496E-10	1.41733617	0.371	0.178	2.1702E-05
Rhoc	1.019E-09	1.80882556	0.308	0.131	2.4169E-05
Egln1	1.1169E-09	1.46220569	0.46	0.294	2.6491E-05
Tmbim4	1.1205E-09	1.11666869	0.567	0.434	2.6577E-05
Tnfrsf12a	1.1231E-09	2.89211799	0.188	0.044	2.6639E-05
Vwa5a	1.1834E-09	1.46376308	0.41	0.23	2.807E-05
Casp7	1.1934E-09	1.86115016	0.308	0.134	2.8306E-05
0610012G03R	1.316E-09	1.35094311	0.426	0.236	3.1213E-05
Cyr61	1.515E-09	2.33290295	0.206	0.055	3.5934E-05
Hk2	1.7836E-09	3.95108814	0.133	0.015	4.2305E-05
Ar	1.8908E-09	2.4795013	0.209	0.058	4.4849E-05
Rnh1	2.0836E-09	1.13658938	0.514	0.338	4.942E-05
Timm8b	2.1491E-09	1.28067036	0.486	0.315	5.0974E-05
Surf4	2.1829E-09	1.33811335	0.478	0.327	5.1775E-05
Aif1	2.3645E-09	3.7855995	0.12	0.009	5.6083E-05
Insl6	2.4517E-09	2.78462963	0.175	0.038	5.8151E-05
S100a16	3.3391E-09	1.30199218	0.462	0.286	7.9201E-05
Adams6	3.3678E-09	2.07672367	0.217	0.064	7.9882E-05
Chmp2a	3.3841E-09	1.00390285	0.546	0.379	8.0268E-05
Gm10260	3.4527E-09	1.13751471	0.538	0.391	8.1896E-05
Amfr	3.4872E-09	1.12049583	0.53	0.364	8.2713E-05
Col3a1	3.5854E-09	4.37894951	0.117	0.009	8.5041E-05
Xdh	3.6267E-09	4.286077	0.104	0.003	8.6021E-05
Lcp1	4.1424E-09	3.6743822	0.117	0.009	9.8255E-05
Parm1	4.2129E-09	1.78677546	0.264	0.099	9.9925E-05
Coro2a	4.3584E-09	2.82207085	0.162	0.032	0.00010338
Slc3a2	4.3703E-09	1.46143665	0.457	0.309	0.00010366
Sap18b	4.4996E-09	1.58352618	0.324	0.149	0.00010673
Tyrobp	4.5153E-09	4.74007367	0.11	0.006	0.0001071
Dapk1	6.3442E-09	1.29751508	0.431	0.242	0.00015048
Aldob	6.8771E-09	1.08449093	0.538	0.338	0.00016312
Zfp706	7.225E-09	1.03448952	0.514	0.35	0.00017137
Bhlhe40	8.4056E-09	1.69877938	0.337	0.166	0.00019937
Itga2	8.4783E-09	1.87972102	0.337	0.172	0.0002011
Pdgfb	8.8395E-09	2.11579863	0.198	0.055	0.00020966
Atox1	9.981E-09	1.0325733	0.507	0.332	0.00023674
Vars	1.0901E-08	1.24845195	0.428	0.254	0.00025857
Ppp1r14b	1.1267E-08	1.36195361	0.407	0.224	0.00026725
Tinag	1.2205E-08	2.42339327	0.238	0.09	0.0002895
Pgl3	1.2979E-08	1.39552989	0.402	0.233	0.00030785
Mgat4b	1.4414E-08	1.29815258	0.394	0.219	0.00034188
Slc16a3	1.4448E-08	2.68588049	0.146	0.026	0.00034269
Dcdc2a	1.5122E-08	1.01437856	0.538	0.373	0.00035867
Manf	1.674E-08	1.15770185	0.574	0.455	0.00039706
Abca13	1.9611E-08	2.98825926	0.266	0.114	0.00046515
Sdc1	1.9664E-08	2.59420151	0.191	0.058	0.0004664
Arhgap15	2.2015E-08	4.44806214	0.136	0.023	0.00052217
Aida	2.2044E-08	1.66968058	0.319	0.155	0.00052287
Cldn2	2.3009E-08	2.49298645	0.178	0.047	0.00054575
Guca2b	2.4308E-08	1.71224981	0.298	0.137	0.00057655
Trim27	2.7505E-08	1.54824595	0.368	0.21	0.00065239
Sept9	2.7863E-08	1.00293049	0.559	0.408	0.00066089
Ptprc	2.8127E-08	3.19705347	0.164	0.041	0.00066714
Dnajb1	2.967E-08	2.4186984	0.204	0.067	0.00070373
Sash1	3.1036E-08	2.30576541	0.269	0.12	0.00073615
Hsbp1	3.1093E-08	1.00360479	0.501	0.332	0.00073749
Uqc3	3.1178E-08	1.57934875	0.292	0.134	0.0007395
Sp100	3.1665E-08	4.10731377	0.117	0.015	0.00075107
Pth1r	3.7476E-08	1.80847622	0.295	0.14	0.00088889
Gm10320	3.7775E-08	1.49719017	0.324	0.16	0.00089598
Bgn	3.7955E-08	3.35838578	0.112	0.012	0.00090025
Atf4	4.3079E-08	1.41504498	0.418	0.265	0.0010218
Slc2a6	4.6768E-08	3.12518462	0.133	0.023	0.0011093
Elmo1	4.751E-08	4.40845441	0.11	0.012	0.0011269
Ap1s1	4.7633E-08	1.40736455	0.381	0.222	0.00112982
Ctsc	4.9243E-08	2.70514391	0.193	0.061	0.00116799
Zeb2	5.2255E-08	2.14936718	0.185	0.055	0.00123944
Slco2a1	5.4091E-08	2.25942467	0.164	0.041	0.00128299
Il18r1	5.615E-08	1.8933471	0.196	0.061	0.00133182
Gsr	5.9194E-08	1.02465965	0.535	0.411	0.00140402
Mrpl17	6.0079E-08	1.43115881	0.342	0.184	0.00142501
Gm8186	7.353E-08	1.03586131	0.509	0.356	0.00174405
Tubb2b	7.4912E-08	1.384448	0.478	0.341	0.00177683
Selenot	7.5821E-08	1.04239803	0.496	0.35	0.00179839
Mrpl57	8.137E-08	1.26471919	0.389	0.227	0.00193002
Rpl21	8.2608E-08	2.20263974	0.188	0.058	0.00195938
Fkbp1a	8.4721E-08	1.10924713	0.457	0.303	0.00200951
Slc14a2	8.891E-08	1.2989365	0.347	0.187	0.00210886
Snx18	9.4331E-08	1.46943663	0.384	0.233	0.00223743
Fbxw17	9.7083E-08	1.3705477	0.274	0.12	0.00230272
Slc22a21	1.0696E-07	2.12303942	0.219	0.085	0.00253691
Slc25a28	1.0738E-07	1.41657386	0.407	0.257	0.00254704
Mrpl30	1.0808E-07	1.12200591	0.423	0.257	0.0025636
Gm14820	1.1055E-07	1.21463134	0.394	0.233	0.00262212
C130074G19R	1.158E-07	1.8303167	0.24	0.099	0.00274656

Rpl38	1.1751E-07	1.10123138	0.501	0.367	0.00278713
Ctsz	1.239E-07	1.58745036	0.329	0.175	0.00293868
Mrpl20	1.3543E-07	1.11871774	0.439	0.28	0.00321226
Eif4ebp1	1.5259E-07	1.61538256	0.287	0.14	0.00361939
Hmgb3	1.6522E-07	1.64050959	0.274	0.125	0.00391884
Pcgt5	1.6556E-07	1.3349372	0.373	0.219	0.00392693
Plpp2	1.8708E-07	1.86863055	0.253	0.111	0.00443732
Sic6a18	2.0076E-07	1.97909087	0.313	0.169	0.00476177
Mapk13	2.0838E-07	2.01153134	0.196	0.067	0.00494256
Eif3b	2.247E-07	1.08471699	0.465	0.309	0.00532962
Nhp2	2.2496E-07	1.75200391	0.251	0.108	0.00533592
Ufm1	2.2858E-07	1.26274033	0.319	0.163	0.00542166
Runx1	2.3235E-07	2.63219482	0.136	0.029	0.00551109
Sec61a1	2.3908E-07	1.03990724	0.48	0.327	0.00567063
Fam162a	2.4837E-07	1.10981748	0.561	0.466	0.00589101
Trim14	2.6064E-07	1.9614064	0.217	0.085	0.00618207
Ctla4	2.6494E-07	1.26776412	0.402	0.245	0.00628413
Bax	2.7573E-07	1.0926019	0.42	0.268	0.00654
9530068E07R	2.7762E-07	1.19351539	0.433	0.292	0.00658479
Tomm5	2.9103E-07	1.3162257	0.337	0.187	0.00690283
Osbpl10	3.0163E-07	1.64459275	0.272	0.128	0.00715429
Cyb5r3	3.1165E-07	1.00676934	0.426	0.265	0.00739209
Zfp185	3.1308E-07	1.72620503	0.214	0.082	0.0074259
Sirpa	3.3214E-07	1.93708037	0.238	0.102	0.00787806
Gm9844	3.501E-07	1.70756778	0.17	0.05	0.00830397
1110008P14R	3.6196E-07	1.00989897	0.507	0.37	0.00858522
Arddc4	3.7823E-07	1.86459405	0.214	0.082	0.00897118
Pgm2	3.841E-07	1.45033847	0.324	0.178	0.00911045
Ywhah	4.1038E-07	1.22469397	0.405	0.262	0.00973379
Fundc2	4.1442E-07	1.67588534	0.279	0.137	0.00982974
Anapc15	4.2923E-07	2.14723403	0.201	0.076	0.01018081
Lst1	4.3717E-07	2.42390825	0.144	0.035	0.01036918
Plscr3	4.5429E-07	1.98217716	0.178	0.058	0.01077536
Kars	4.898E-07	1.47976375	0.29	0.149	0.01161765
Sic1a1	4.982E-07	2.57484487	0.178	0.061	0.01181676
Rps13	5.6523E-07	1.81846684	0.266	0.131	0.01340658
Fosl2	5.8079E-07	1.46285759	0.379	0.245	0.01377581
Cd68	6.0104E-07	2.72740401	0.115	0.02	0.01425616
Ndufv3	6.125E-07	1.00303276	0.457	0.321	0.01452798
Samhd1	6.4415E-07	1.5399444	0.329	0.187	0.01527854
Steap2	7.3361E-07	1.58552965	0.245	0.108	0.01740046
Cct7	7.3805E-07	1.10410519	0.475	0.359	0.01750579
Gm7030	7.6686E-07	2.2268314	0.149	0.041	0.01818904
Cldn10	7.7893E-07	1.47386111	0.232	0.099	0.01847544
Id2	7.887E-07	1.21837979	0.415	0.283	0.01870723
Sic41a2	8.0065E-07	1.12606686	0.332	0.178	0.01899067
9530082P21R	8.0244E-07	1.69876802	0.193	0.07	0.01903307
Sqstm1	8.1022E-07	1.15378349	0.465	0.344	0.01921759
Parp11	8.1729E-07	1.62705881	0.193	0.07	0.01938535
Itgb6	8.3551E-07	1.05181305	0.561	0.44	0.01981746
Gm6034	8.4225E-07	2.70135942	0.128	0.029	0.01997736
Emc6	8.4486E-07	1.32054058	0.368	0.227	0.02003935
Rab39	8.5477E-07	1.46290558	0.258	0.12	0.02027439
Tmem256	8.9895E-07	1.06518615	0.345	0.19	0.02132231
Cldn4	9.0878E-07	1.38818498	0.415	0.277	0.02155532
Plekha2	9.6162E-07	1.21912276	0.431	0.294	0.02280857
Rpl12	9.7135E-07	1.27244163	0.342	0.201	0.02303943
Nceh1	1.0166E-06	1.21237196	0.467	0.338	0.02411367
Serpine1	1.0246E-06	3.33042268	0.131	0.032	0.02430188
Ankrd37	1.0449E-06	1.94757529	0.157	0.047	0.02478285
Armc10	1.1202E-06	1.29469773	0.36	0.219	0.02656955
Cfb	1.1372E-06	2.34379109	0.123	0.026	0.02697264
Ifit3b	1.2334E-06	2.25009781	0.123	0.026	0.02925562
Nr1h2	1.2419E-06	1.09863017	0.418	0.277	0.02945737
Exosc4	1.279E-06	1.45274245	0.287	0.149	0.03033717
Fcer1g	1.2907E-06	3.15378874	0.12	0.026	0.03061377
Pgd	1.2938E-06	1.032353	0.41	0.268	0.03068823
Fos	1.2994E-06	2.26143773	0.117	0.023	0.03082104
Cyp2j5	1.3107E-06	1.51789735	0.272	0.137	0.03108778
Tcigr1	1.3667E-06	1.67486895	0.191	0.07	0.03241781
Id3	1.4261E-06	1.04237823	0.324	0.175	0.03382616
Cd44	1.492E-06	3.00421895	0.104	0.017	0.03538817
Trim30a	1.5618E-06	1.22304745	0.399	0.248	0.03704467
Lsm4	1.6651E-06	1.42524928	0.319	0.184	0.03949421
Mrps28	1.6915E-06	1.07152373	0.444	0.309	0.04012118
Nhs	1.7992E-06	2.06853661	0.266	0.14	0.04267572
Sqle	1.8987E-06	3.05912775	0.117	0.026	0.0450348
Sic16a1	2.0108E-06	2.8369089	0.123	0.029	0.04769452
Sic30a1	2.0198E-06	1.76821585	0.217	0.093	0.04790804
Triobp	2.0412E-06	1.41467852	0.316	0.181	0.04841543
Sic9a3r1	2.1034E-06	1.27281047	0.381	0.245	0.04989167

Table S2: Results from differential gene expression TCMR vs. Control

Collecting duct intercalated cells type A

*This Fold Change was calculated between [C57BL/6 to BALB/c] and [C57BL/6 to C57BL/6]

Gene upr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj	Gene downr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj
H2-K1	2.8365E-20	3.47680309	1	0.459	6.7279E-16	Gm26870	1.4587E-26	-2.91062245	0.025	0.676	3.4599E-22
B2m	9.0443E-20	4.33247473	0.98	0.297	2.1452E-15	Slc34a1	1.0629E-18	-3.3671666	0.152	0.811	2.5211E-14
H2-D1	2.0079E-19	3.66550414	0.99	0.243	4.7626E-15	mt-Nd2	4.5822E-18	-2.228321	0.54	1	1.0869E-13
Cd74	1.2792E-18	5.96119508	0.924	0.054	3.0341E-14	Kap	1.4283E-17	-2.11507892	0.823	1	3.3878E-13
Igfp1	2.3679E-18	8.21061122	0.904	0.027	5.6165E-14	Egr1	9.0823E-17	-3.27635722	0.066	0.595	2.1542E-12
Chd9	1.0634E-16	2.23506247	1	0.838	2.5223E-12	Tmem117	1.9792E-14	-1.40165309	0.98	1	4.6944E-10
H2-Q7	1.7366E-16	6.74780768	0.848	0.027	4.119E-12	Rp1	9.4575E-14	-4.9282512	0.015	0.351	2.2432E-09
Stat1	6.3054E-16	4.3306935	0.889	0.216	1.4956E-11	Pde4b	3.638E-13	-1.92996971	0.626	1	8.6289E-09
Gm4951	2.2497E-15	8.57299743	0.808	0	5.3362E-11	mt-Cytb	4.2642E-13	-1.92708366	0.475	0.946	1.0114E-08
Spp1	2.8829E-15	2.57164737	0.99	0.811	6.8381E-11	Ass1	5.3678E-13	-3.26120127	0.081	0.541	1.2732E-08
Ly6e	4.1916E-15	2.85241329	0.924	0.405	9.9422E-11	Pah	7.1887E-13	-2.76211421	0.258	0.757	1.7051E-08
Ly6a	4.5468E-15	4.49818129	0.854	0.108	1.0784E-10	mt-Nd4	8.8316E-13	-1.80098503	0.652	1	2.0948E-08
Irgm1	8.1707E-15	5.86048514	0.803	0.054	1.938E-10	Acsm2	1.0425E-12	-3.75487922	0.076	0.514	2.4728E-08
Clec2d	1.3739E-14	2.75097793	0.899	0.432	3.2588E-10	Miox	1.9641E-12	-3.25649104	0.071	0.514	4.6587E-08
Gbp2	1.8172E-14	7.55153747	0.778	0	4.3102E-10	Gm42418	5.9834E-12	-1.29324866	1	1	1.4192E-07
Trmsb4x	2.536E-13	3.19889087	0.904	0.432	6.0151E-09	Gatm	1.251E-11	-2.74285667	0.081	0.514	2.9672E-07
Olfrr56	3.0742E-12	7.13630066	0.697	0	7.2917E-08	Lrp2	3.119E-11	-3.14796623	0.131	0.595	7.3978E-07
Psmb8	3.0742E-12	6.942798	0.697	0	7.2917E-08	Aldob	3.6046E-11	-1.89800798	0.338	0.865	8.5496E-07
Gm16685	3.355E-12	3.12210511	0.823	0.189	7.9578E-08	Cms1	5.5922E-11	-1.7181392	0.854	1	1.3264E-06
Parp14	4.4076E-12	5.65417692	0.707	0.027	1.0454E-07	Sord	6.0181E-11	-2.91534203	0.091	0.514	1.4274E-06
Gbp8	7.5168E-12	7.3142565	0.682	0	1.7829E-07	Akr1c21	2.2441E-10	-3.07224757	0.076	0.459	5.3228E-06
Tnfrsf10	8.4167E-12	5.02999444	0.712	0.054	1.9963E-07	6430573F11Ri	2.6884E-10	-3.45521484	0.045	0.378	6.3767E-06
H2-Q4	1.008E-11	6.79360145	0.677	0	2.391E-07	Egf	3.7752E-10	-3.08113779	0.035	0.351	8.9543E-06
Serp1nb9	1.1995E-11	2.33762842	0.904	0.541	2.8452E-07	Cyp4a10	3.9076E-10	-4.41042931	0.015	0.27	9.2684E-06
F830016B08R	1.8006E-11	7.32130184	0.667	0	4.2708E-07	mt-Atp6	6.7639E-10	-1.19904355	0.722	1	1.6043E-05
Gbp7	3.6233E-11	4.9343221	0.687	0.027	8.5942E-07	Tef	7.6148E-10	-2.39264538	0.182	0.622	1.8062E-05
Ubd	4.2273E-11	7.09988128	0.652	0	1.0027E-06	Gm34240	8.3036E-10	-4.92859571	0.025	0.297	1.9695E-05
H2-Q6	7.3858E-11	6.52442753	0.641	0	1.7518E-06	Dnase1	1.0022E-09	-4.71696664	0.005	0.216	2.3771E-05
H2-Aa	7.6588E-11	6.52000474	0.657	0.027	1.8166E-06	Slc43a2	1.07E-09	-1.2968622	0.712	0.946	2.5379E-05
H2-Ab1	9.7311E-11	6.98460332	0.636	0	2.3081E-06	mt-Nd3	1.5396E-09	-2.88984413	0.061	0.405	3.6519E-05
Apobec3	1.1313E-10	2.46572382	0.833	0.378	2.6833E-06	Jun	2.48E-09	-1.89600394	0.278	0.757	5.8823E-05
Oasl2	1.2793E-10	6.71803528	0.631	0	3.0345E-06	Slc22a8	3.3032E-09	-2.7974689	0.025	0.297	7.8348E-05
Rnf213	2.6091E-10	3.56904252	0.747	0.27	6.1884E-06	Slc4a1	3.8729E-09	-1.80441154	0.348	0.838	9.1862E-05
H2-T23	3.8156E-10	5.23337752	0.641	0.054	9.0503E-06	Grb10	5.4748E-09	-2.28685927	0.369	0.811	0.00012986
Gm12185	8.0696E-10	5.76445106	0.611	0.027	1.914E-05	Car2	6.6737E-09	-1.20145248	0.823	1	0.00015829
Cd274	8.1881E-10	7.21362941	0.596	0	1.9421E-05	Slc5a2	9.698E-09	-3.43063853	0.015	0.243	0.00023003
Psmb9	8.1882E-10	6.42599578	0.596	0	1.9422E-05	Nat8f1	9.7509E-09	-3.4059452	0.04	0.324	0.00023128
H2-Eb1	1.0469E-09	4.67470472	0.641	0.081	2.4832E-05	Dgat2	1.0508E-08	-3.06614776	0.03	0.297	0.00024923
Tap1	1.3602E-09	4.36524549	0.626	0.054	3.2262E-05	Tmem52b	1.4041E-08	-2.52509438	0.096	0.459	0.00033303
Irgm2	2.6701E-09	4.13991131	0.631	0.081	6.3332E-05	Cox6c	1.408E-08	-1.55256247	0.389	0.892	0.00033396
Cserr1	4.8398E-09	1.05697409	0.995	0.946	0.0001148	Ttr	1.5455E-08	-4.76588758	0.005	0.189	0.00036657
Serp1g1	6.0514E-09	6.3142016	0.556	0	0.00014353	Klkb1	1.6448E-08	-4.06940294	0.025	0.27	0.00039014
Zfp981	1.2172E-08	1.65409326	0.975	0.892	0.0002887	Tcn2	2.6189E-08	-2.07508478	0.192	0.595	0.00062118
Apoe	1.7413E-08	4.94243924	0.586	0.081	0.00041301	Slc35f1	2.9923E-08	-1.5311851	0.439	0.838	0.00070975
Kansl1	3.8999E-08	1.17391069	0.929	0.919	0.00092502	Oxct1	3.139E-08	-1.20243856	0.561	0.892	0.00074453
Irf1	3.9258E-08	3.16960545	0.646	0.189	0.00093117	Malrd1	3.1908E-08	-2.17762095	0.449	0.784	0.00075684
Gm20388	4.0334E-08	1.6334337	0.975	0.811	0.00095668	Slc6a19	3.6101E-08	-2.77048778	0.025	0.27	0.00085627
Nlrc5	6.0032E-08	3.31289218	0.611	0.135	0.0014239	Kctd8	3.8291E-08	-2.2512081	0.182	0.595	0.00090823
Gm42031	7.4532E-08	1.83046258	0.899	0.676	0.00176782	Igf1bp4	3.8633E-08	-2.71710648	0.091	0.432	0.00091633
Lcn2	7.7669E-08	6.07596356	0.5	0	0.00184222	Cyp2a4	4.1566E-08	-2.76655239	0.025	0.27	0.0009859
Ly22	7.7669E-08	6.27401199	0.5	0	0.00184222	Tmem27	4.2148E-08	-1.64343555	0.182	0.622	0.0009997
Herc6	1.8452E-07	3.68910174	0.611	0.189	0.00437653	Gm17276	4.5557E-08	-2.00763865	0.247	0.676	0.00108056
Plac8	2.7875E-07	4.43735897	0.53	0.081	0.00661166	Nkain3	5.509E-08	-3.59240647	0.071	0.378	0.00130668
Tapbp	3.9872E-07	2.47668735	0.631	0.189	0.00945728	Bdh2	5.6225E-08	-2.91661424	0.035	0.297	0.00133361
9530026P05R	4.2126E-07	1.76548813	0.833	0.703	0.00999192	Slc16a9	6.7955E-08	-2.8971231	0.02	0.243	0.00161182
Ifitm3	6.1059E-07	3.26880715	0.54	0.081	0.0144825	Zfp536	6.9262E-08	-3.40906161	0.051	0.324	0.00164282
Cxcl10	6.574E-07	6.67850908	0.449	0	0.0155928	Ipcef1	7.7839E-08	-1.26928576	0.51	0.892	0.00184626
Bst2	9.8802E-07	5.85912873	0.439	0	0.02343477	Acadm	1.0319E-07	-1.82982383	0.182	0.595	0.00244752
AW112010	9.8802E-07	6.21111336	0.439	0	0.02343477	Slc16a7	1.3704E-07	-1.22692156	0.596	0.919	0.00325053
Camk2b	1.0064E-06	2.47050052	0.737	0.486	0.02387127	Pclo	1.5211E-07	-2.07671335	0.157	0.541	0.00360796
Sult5a1	1.089E-06	4.82673453	0.515	0.081	0.02582903	Cyp2s1	1.5279E-07	-2.37873201	0.116	0.459	0.00362405
Stat2	1.1361E-06	2.80799396	0.556	0.108	0.02694739	Adhfe1	1.7553E-07	-1.70249759	0.182	0.595	0.00416345
						Clec2h	1.8699E-07	-5.86365988	0	0.135	0.0044353
						Smim24	1.8699E-07	-5.69091375	0	0.135	0.0044353
						Ncam2	1.8699E-07	-6.68905092	0	0.135	0.0044353
						Plppr1	1.9056E-07	-2.38261648	0.146	0.514	0.00451984
						Pitpnc1	2.1034E-07	-1.07744015	0.732	0.973	0.00498907
						Acot3	2.3395E-07	-3.30320594	0.01	0.189	0.00554895
						Aqp3	2.4681E-07	-3.75319354	0.025	0.243	0.0058541
						mt-Nd4l	2.7414E-07	-1.83169088	0.162	0.541	0.00650228
						Inmt	2.9598E-07	-4.36636212	0.005	0.162	0.00702028
						Cpeb3	3.0541E-07	-1.17497189	0.788	0.973	0.00724395
						Hnf1aosl	3.4272E-07	-1.44597595	0.328	0.784	0.00812895
						Tbc1d24	3.5285E-07	-2.45093793	0.101	0.432	0.00836928
						Arhgap24	4.1948E-07	-1.38569248	0.54	0.865	0.00994969
						Atp6v1g3	4.3437E-07	-1.06165237	0.899	1	0.01030289
						mt-Co2	5.0298E-07	-1.0346671	0.697	1	0.01193009
						Cdkl1	5.0468E-07	-1.24819554	0.621	0.919	0.01197053
						Aldh6a1	5.5889E-07	-1.35584363	0.338	0.757	0.01325627
						Dcxr	5.8103E-07	-2.53113117	0.056	0.324	0.01378143
						Zfp385b	7.2505E-07	-1.96585586	0.111	0.432	0.01719748
						Amfr	7.3124E-07	-1.62800929	0.202	0.595	0.01734426
						Fbp1	7.3989E-07	-2.99608226	0.061	0.324	0.01754939
						Tkfc	7.7457E-07	-3.31878986	0.02	0.216	0.01837197
						Gm10031	8.6319E-07	-2.74291209	0.061	0.324	0.02047393
						Sema3b	8.9419E-07	-1.9871273	0.121	0.459	0.02120935
						Rab11fip3	1.0683E-06	-1.19140798	0.621	0.838	0.02533929
						Rida	1.1493E-06	-1.79400186	0.247	0.649	0.02725949
						Gm42397	1.1787E-06	-4.45509215	0.03	0.243	0.02795811
						Ugt3a1	1.3481E-				

Col27a1	1.7517E-06	-2.04622457	0.061	0.324	0.04154943
Rtl4	1.915E-06	-3.48099767	0.162	0.459	0.04542089
Ybx2	1.9835E-06	-1.65037811	0.237	0.622	0.04704584
Cntn3	2.0288E-06	-2.32558246	0.04	0.27	0.04812066

Table S2: Results from differential gene expression TCMR vs. Control

Collecting duct intercalated cells type A

*This Fold Change was calculated between [BALB/c to C57BL/6] and [BALB/c to BALB/c]

Gene upr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj	Gene downr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj
B2m	3.8759E-52	5.92272774	1	0.176	9.1932E-48	Gm26870	1.5796E-28	-4.67805141	0.032	0.647	3.7466E-24
H2-K1	5.6214E-52	6.09770942	0.994	0.14	1.3333E-47	Arhgap18	2.7226E-20	-1.25540352	0.766	0.978	6.4578E-16
Ilgp1	1.8552E-50	11.7398997	0.949	0	4.4003E-46	Tef	1.9775E-11	-2.02623782	0.152	0.515	4.6904E-07
H2-D1	5.219E-50	4.91689255	0.994	0.316	1.2379E-45	Fgfr2	9.1402E-11	-1.06107068	0.81	0.941	2.168E-06
Cd74	3.2969E-48	6.74121434	0.943	0.044	7.82E-44	Peli2	1.4516E-10	-1.52593237	0.253	0.662	3.443E-06
Spp1	1.429E-43	3.40090625	1	0.574	3.3895E-39	Btg2	1.6163E-10	-1.37999236	0.266	0.669	3.8336E-06
Stat1	5.1294E-43	5.03890615	0.918	0.154	1.2167E-38	Egr1	3.0722E-10	-3.04211405	0.057	0.346	7.287E-06
Ly6a	3.1526E-38	5.10387857	0.842	0.096	7.4777E-34	4933417O13R	5.3486E-10	-1.69455834	0.215	0.559	1.2686E-05
Irgm1	1.1711E-34	5.60693096	0.772	0.051	2.7778E-30	Napepld	7.0703E-10	-1.65008817	0.253	0.596	1.677E-05
Psmb8	2.2157E-32	7.00585107	0.709	0.015	5.2553E-28	Gm26804	9.0739E-10	-1.11846249	0.684	0.89	2.1522E-05
H2-T23	5.9802E-31	5.11756401	0.722	0.051	1.4184E-26	Nkap	9.7135E-10	-1.6997641	0.31	0.618	2.3039E-05
Tnfrsf10	6.9987E-31	5.58902862	0.715	0.051	1.66E-26	Gpm	9.9167E-10	-2.2068616	0.082	0.382	2.3522E-05
Gbp2b	1.9643E-30	8.46907748	0.671	0.007	4.659E-26	Dmrt2	1.0369E-09	-1.00379125	0.506	0.838	2.4593E-05
Tap1	3.3746E-30	5.9937733	0.684	0.022	8.0042E-26	Gm36975	1.1362E-09	-1.95009245	0.247	0.574	2.695E-05
Tapbp	6.8156E-30	3.73029467	0.785	0.169	1.6166E-25	Gm15563	1.1454E-09	-1.76093893	0.12	0.449	2.7169E-05
H2-Eb1	2.8292E-29	5.22384621	0.69	0.037	6.7107E-25	Dnae1	1.2169E-09	-4.51177086	0.013	0.243	2.8864E-05
Olfir56	6.7276E-29	7.99080186	0.646	0.007	1.5957E-24	Fras1	1.4105E-09	-1.44441628	0.411	0.772	3.3456E-05
Ly6e	2.9094E-28	6.74626959	0.639	0.007	6.9009E-24	Arhgef38	2.4627E-09	-1.00195745	0.627	0.868	5.8412E-05
H2-Ab1	3.8224E-27	5.96622878	0.639	0.029	9.0663E-23	Pitpnc1	2.4886E-09	-1.02280471	0.703	0.89	5.9027E-05
Ubd	1.0162E-26	8.68768373	0.601	0	2.4103E-22	BB365896	3.7992E-09	-2.24325003	0.095	0.39	9.0112E-05
Gm4951	5.2276E-26	9.34555928	0.589	0	1.2399E-21	Negr1	4.3955E-09	-2.27806574	0.386	0.61	0.00010426
Gbp7	9.8516E-26	5.69969883	0.62	0.029	2.3367E-21	Ybx2	5.2439E-09	-1.44199284	0.241	0.581	0.00012438
H2-Q4	2.1077E-25	4.69446202	0.633	0.044	4.9991E-21	Tnn	6.1763E-09	-2.79859522	0.063	0.324	0.0001465
H2-Aa	9.3217E-25	5.42450889	0.601	0.029	2.211E-20	Rapgef4os1	7.3102E-09	-2.25989428	0.038	0.287	0.00017339
Irf1	1.33E-24	5.49554498	0.601	0.029	3.1546E-20	Tmtc2	8.6584E-09	-1.74599313	0.222	0.544	0.00020537
Nlrc5	1.553E-24	4.91441596	0.614	0.044	3.6835E-20	Neu2	1.3071E-08	-2.51504062	0.057	0.316	0.00031004
Parp14	3.5469E-24	3.73305807	0.69	0.125	8.4128E-20	Grid2	1.4275E-08	-2.39943216	0.038	0.279	0.00033858
Psmb9	6.3769E-24	6.27453534	0.563	0.007	1.5125E-19	Slc34a1	1.4538E-08	-1.34355852	0.196	0.544	0.00034482
Rnf213	2.8741E-23	3.50026658	0.715	0.206	6.817E-19	Acmsd	1.6667E-08	-2.42099244	0.038	0.279	0.00039532
Tmsb4x	1.1568E-21	1.76343515	0.956	0.691	2.7439E-17	Gm9871	2.0379E-08	-2.63238161	0.051	0.294	0.00048338
Fth1	1.3717E-20	1.31661111	0.994	0.809	3.2536E-16	Gm15261	2.0935E-08	-1.54095125	0.291	0.588	0.00049655
Ifitm3	1.4289E-20	4.73017246	0.551	0.051	3.3893E-16	Maoa	3.6104E-08	-1.84596221	0.139	0.434	0.00085634
Actb	3.8723E-20	1.93902977	0.867	0.61	9.1848E-16	Kcnc10t1	5.7535E-08	-1.14878979	0.709	0.86	0.00136468
Gm12185	4.362E-20	5.64129798	0.506	0.022	1.0346E-15	Zfp973	1.0203E-07	-1.70913399	0.114	0.39	0.00242015
Oas12	2.1744E-19	8.11989071	0.462	0	5.1574E-15	Gm15640	1.0412E-07	-2.63904276	0.038	0.257	0.00246964
Gm16685	4.4251E-19	8.4346567	0.456	0	1.0496E-14	Fut9	1.1463E-07	-1.366359	0.665	0.831	0.00271888
Irgm2	4.9016E-19	4.90932322	0.513	0.044	1.1626E-14	Gm28410	1.4356E-07	-2.36635642	0.051	0.279	0.00340511
H2-Q7	8.9637E-19	7.7027055	0.449	0	2.1261E-14	Gsdmc3	1.4687E-07	-4.17889607	0.025	0.221	0.00348361
Plac8	2.7372E-18	3.38347966	0.563	0.081	6.4923E-14	Pear1	1.7123E-07	-2.70746166	0.038	0.25	0.00406134
Herc6	3.1737E-18	3.65037917	0.589	0.125	7.5277E-14	Gm7	1.9687E-07	-2.38286268	0.051	0.265	0.00466957
Gbp2	6.5847E-18	6.29947109	0.443	0.007	1.5618E-13	Gm36388	2.5375E-07	-1.65982213	0.241	0.522	0.00601872
Cd52	2.8545E-17	7.79894497	0.418	0	6.7706E-13	Gm11536	2.6427E-07	-2.30191688	0.063	0.294	0.00626823
Cd274	1.2628E-16	6.32728002	0.418	0.007	2.9952E-12	Gm26733	3.3384E-07	-1.00664238	0.361	0.676	0.00791846
Pigr	4.7336E-16	3.49341841	0.481	0.051	1.1228E-11	Slc16a12	3.5506E-07	-1.35160693	0.222	0.507	0.00842171
Stat2	4.8675E-16	3.00841602	0.576	0.154	1.1545E-11	Slc26a7	3.8494E-07	-2.61664071	0.196	0.463	0.00913041
H2-T22	6.0651E-16	4.86067119	0.437	0.029	1.4386E-11	Cipc	4.2276E-07	-1.27123014	0.38	0.669	0.01002753
mt-Co1	1.1388E-15	1.37723627	0.924	0.632	2.7011E-11	Nr1d2	4.2457E-07	-1.30931204	0.291	0.574	0.01007027
Rps20	1.186E-15	1.6152175	0.797	0.471	2.8131E-11	Tcp11l2	5.1614E-07	-2.41314326	0.051	0.257	0.01224235
Serpib9	1.4251E-15	1.30867477	0.956	0.779	3.3803E-11	Dixdc1	6.6511E-07	-1.52253161	0.133	0.397	0.01577565
Gbp8	8.3004E-15	5.70556167	0.38	0.007	1.9688E-10	Insr	7.5703E-07	-3.1373978	0.025	0.206	0.01795608
Bst2	8.5749E-15	3.67323611	0.475	0.081	2.0339E-10	A430090L17Ri	8.1728E-07	-1.39776328	0.158	0.426	0.01938501
Cmss1	9.4817E-15	1.00378969	0.962	0.794	2.249E-10	Ptpn21	8.3337E-07	-1.08252902	0.291	0.574	0.01976659
Fth1	1.1763E-14	1.3312857	0.886	0.721	2.79E-10	Gm13269	8.4999E-07	-1.24216362	0.133	0.412	0.02016082
Rpl27-ps3	1.5407E-14	1.80630522	0.696	0.294	3.6543E-10	Col27a1	8.5541E-07	-1.3654567	0.196	0.471	0.02028951
Cxcl10	3.9325E-14	8.35412323	0.348	0	9.3274E-10	Tet3	8.6264E-07	-1.00726212	0.424	0.706	0.02046099
AW112010	3.9325E-14	7.50772908	0.348	0	9.3274E-10	Gm12353	9.9586E-07	-1.20989738	0.285	0.566	0.02362081
Serpig1	6.0323E-14	5.34006817	0.38	0.022	1.4308E-09	Sdk1	1.0163E-06	-1.02616154	0.152	0.426	0.02410473
mt-Co3	8.7601E-14	1.40106263	0.899	0.699	2.0778E-09	Gpr137c	1.0819E-06	-2.84039547	0.051	0.25	0.02566174
Tap2	1.0945E-13	3.81436212	0.43	0.059	2.5961E-09	Ackr4	1.1094E-06	-1.82475005	0.108	0.346	0.02631413
Gm4841	2.5867E-13	7.37986714	0.329	0	6.1353E-09	Gsdmc2	1.2563E-06	-3.43876395	0.044	0.235	0.02979737
Napsa	7.1433E-13	1.42660356	0.816	0.485	1.6943E-08	Glb1l2	1.4422E-06	-1.2108492	0.241	0.522	0.03420715
F830016B08R	8.9013E-13	7.51814035	0.316	0	2.1113E-08	Gm47167	1.5543E-06	-1.89526779	0.101	0.331	0.03686532
Rplp1	1.3625E-12	1.41596966	0.791	0.485	3.2316E-08						
Rpsa	1.3703E-12	1.35306743	0.747	0.375	3.2501E-08						
Tpt1	1.5606E-12	1.09351553	0.88	0.625	3.7016E-08						
Icam1	1.7191E-12	5.12269058	0.348	0.022	4.0775E-08						
Gbp3	6.6091E-12	5.49807263	0.31	0.007	1.5676E-07						
Tgtp2	1.006E-11	7.2329472	0.291	0	2.3862E-07						
Tmem176b	3.0005E-11	1.89081049	0.671	0.353	7.1168E-07						
Psmb10	3.4578E-11	4.16952619	0.342	0.037	8.2016E-07						
Gm26917	4.3467E-11	1.71860026	0.741	0.618	1.031E-06						
S100a11	4.8636E-11	1.42042553	0.722	0.419	1.1536E-06						
mt-Atp6	5.1932E-11	1.12669944	0.943	0.816	1.2318E-06						
Parp9	5.3484E-11	2.6437233	0.5	0.176	1.2686E-06						
Tmsb10	6.9709E-11	2.68282743	0.424	0.096	1.6534E-06						
Samhd1	7.3908E-11	2.97601436	0.424	0.096	1.753E-06						
Gm10073	1.7126E-10	1.16245199	0.778	0.537	4.0622E-06						
Rps19	1.9548E-10	1.85308248	0.62	0.324	4.6365E-06						
Rpl41	3.0716E-10	1.07780968	0.867	0.632	7.2856E-06						
Ly22	3.4161E-10	6.78091287	0.253	0	8.1026E-06						
Ccl5	4.1245E-10	5.73419579	0.266	0.007	9.783E-06						
Xaf1	5.5443E-10	4.44446635	0.278	0.015	1.315E-05						
H2-Q6	6.0701E-10	6.45497618	0.247	0	1.4398E-05						
mt-Co2	6.8126E-10	1.09539664	0.918	0.75	1.6159E-05						
Gm12216	7.3163E-10	1.76886493	0.608	0.316	1.7354E-05						
Oas2	1.3006E-09	4.00812172	0.285	0.022	3.0848E-05						
Nmi	1.5696E-09	2.95634588	0.411	0.125	3.7229E-05						
Id2	1.9537E-09	1.60025155	0.658	0.397	4.634E-05						
Rpl18	2.5349E-09	1.56583185	0.633	0.338	6.0126E-05						
Ifi44	3.3352E-09	6.7322143	0.228								

Gm11808	5.3345E-09	1.09651556	0.772	0.441	0.00012653
Akt3	5.5775E-09	2.54435713	0.468	0.191	0.00013229
Rps3	5.798E-09	1.25295233	0.671	0.397	0.00013752
Tmem176a	7.3573E-09	1.60867069	0.665	0.485	0.00017451
Dbi	8.1813E-09	1.21754536	0.734	0.463	0.00019405
Wfdc2	8.4898E-09	1.05984683	0.772	0.581	0.00020137
Ifi44l	1.021E-08	6.2977294	0.215	0	0.00024217
Cyba	1.0714E-08	2.12474261	0.506	0.243	0.00025413
Sp100	1.1763E-08	2.91537648	0.323	0.059	0.000279
Socs1	1.3714E-08	5.23382189	0.228	0.007	0.00032529
Gbp5	1.4142E-08	5.12927653	0.253	0.022	0.00033543
Rpl19	1.6471E-08	1.28296386	0.671	0.39	0.00039067
Rps29	2.1016E-08	1.00157534	0.772	0.574	0.00049847
Pdia3	2.6644E-08	1.67419653	0.544	0.287	0.00063196
Zbp1	3.0847E-08	6.20489554	0.203	0	0.00073166
Rtp4	3.3281E-08	3.43494961	0.272	0.037	0.0007894
Calr	3.5417E-08	1.54719558	0.646	0.419	0.00084005
Irf7	4.0706E-08	3.60441103	0.247	0.022	0.00096552
Patl2	4.7341E-08	4.22643892	0.241	0.022	0.00112288
Rps4x	6.9319E-08	1.34991263	0.601	0.316	0.00164418
Ddx60	7.5133E-08	5.37403409	0.222	0.015	0.00178207
Vcam1	7.8894E-08	3.6291983	0.241	0.022	0.00187129
Psap	8.8585E-08	1.27982785	0.652	0.412	0.00210114
Rpl7	9.1897E-08	1.36446398	0.582	0.309	0.00217971
Ifi27	1.2372E-07	2.62606058	0.285	0.051	0.00293444
Dtx3l	1.7135E-07	3.52136038	0.253	0.037	0.00406422
Rpl9-ps6	1.7524E-07	1.1493371	0.677	0.441	0.00415647
Actn4	1.8912E-07	1.19031447	0.728	0.64	0.00448575
Txn1	1.924E-07	1.85493194	0.475	0.228	0.00456358
Desi1	1.9267E-07	1.39499097	0.582	0.353	0.00456995
Unc93b1	1.9554E-07	2.00962729	0.31	0.074	0.00463794
Adgrg1	2.3579E-07	1.23484868	0.652	0.426	0.00559268
Rps27rt	2.3662E-07	1.17129478	0.703	0.5	0.00561248
Mt1	2.3854E-07	1.64616652	0.437	0.176	0.00565785
Lamp2	2.6697E-07	1.15272512	0.703	0.581	0.00633218
Rpl17	3.0926E-07	1.55036423	0.538	0.309	0.0073353
Ddx58	3.4029E-07	1.84955917	0.462	0.228	0.00807122
Lrmda	3.782E-07	1.04519721	0.778	0.574	0.0089706
Ii7	3.9115E-07	4.56086253	0.19	0.007	0.00927766
Isg15	4.2871E-07	4.72241794	0.203	0.015	0.01016856
Rpl32	4.4467E-07	1.09197452	0.709	0.485	0.01054702
Ctss	4.6323E-07	5.93829661	0.171	0	0.01098724
Epsit1	4.6427E-07	2.23310256	0.43	0.191	0.01101191
Rps23	4.855E-07	1.36277709	0.563	0.324	0.01151565
C4b	5.89E-07	5.44837626	0.184	0.007	0.01397052
Laptn4a	6.2886E-07	1.23355463	0.614	0.412	0.01491602
Parm1	6.6981E-07	1.06831979	0.835	0.743	0.01588733
Itgb6	7.3396E-07	1.11303849	0.772	0.662	0.01740874
AU020206	8.8073E-07	3.85927312	0.222	0.029	0.02089014
S100a10	8.8769E-07	2.0465031	0.392	0.169	0.02105513
Tspo	8.8851E-07	1.02111332	0.608	0.324	0.02107468
Rps15	1.2832E-06	1.04860304	0.69	0.515	0.03043717
Sh3bgrl3	1.3172E-06	1.89266609	0.373	0.14	0.03124351
Cxcl9	1.3409E-06	6.20250073	0.158	0	0.03180424
Hbb-bs	1.3409E-06	5.76958136	0.158	0	0.03180424
Wdr89	1.3549E-06	1.10450172	0.658	0.449	0.03213609
Rpl23	1.5415E-06	1.00949064	0.646	0.412	0.03656238
Nampt	1.7023E-06	2.30756048	0.392	0.176	0.04037601
Tecpr2	1.818E-06	1.48024419	0.519	0.309	0.04312227
Rps27a	1.8181E-06	1.28699845	0.582	0.397	0.04312427
Gm6034	1.8608E-06	3.37774739	0.19	0.015	0.04413621

Table S2: Results from differential gene expression TCMR vs. Control

Collecting duct intercalated cells type B

*This Fold Change was calculated between [C57BL/6 to BALB/c] and [C57BL/6 to C57BL/6]

Gene upr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj	Gene downr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj
H2-K1	1.6699E-32	4.92291503	1	0.312	3.9609E-28	Gm26870	8.6843E-31	-5.46342518	0.02	0.656	2.0598E-26
Ilgp1	2.1193E-32	9.0012961	0.98	0.031	5.0268E-28	Kap	2.7352E-25	-2.09220647	0.878	1	6.4877E-21
B2m	3.372E-32	4.54340059	0.995	0.375	7.9979E-28	Insr	3.4412E-24	-2.16350232	0.528	0.969	8.1622E-20
Cd74	3.9106E-31	5.63763411	0.98	0.109	9.2755E-27	mt-Nd2	1.6155E-23	-2.16799874	0.574	1	3.8318E-19
H2-D1	4.5166E-31	5.22335566	0.975	0.25	1.0713E-26	Slc43a2	5.9353E-22	-1.77960088	0.711	1	1.4078E-17
Ly6a	7.7554E-28	4.97685352	0.939	0.109	1.8395E-23	Igfbp5	3.0414E-20	-2.93954062	0.122	0.703	7.214E-16
Stat1	6.2738E-26	5.15939071	0.898	0.156	1.4881E-21	Car12	3.406E-20	-2.14596876	0.68	0.984	8.0788E-16
Gm4951	1.7879E-25	9.57305929	0.848	0	4.2408E-21	Atp6v1c2	4.9031E-20	-1.39440541	0.797	1	1.163E-15
Irgm1	2.4955E-25	4.99398025	0.878	0.062	5.919E-21	Sord	1.2376E-19	-2.73092247	0.188	0.766	2.9355E-15
Gbp2	3.1605E-25	8.94518805	0.843	0	7.4964E-21	Mthfd1	4.1038E-19	-2.10263918	0.396	0.906	9.7339E-15
Ly6e	7.058E-25	3.52664635	0.924	0.234	1.6741E-20	Pde4b	6.1809E-19	-1.56211924	0.827	0.969	1.4661E-14
Tmsb4x	2.7551E-24	4.56851179	0.914	0.219	6.5349E-20	Tmem117	1.9674E-18	-1.29442692	0.949	1	4.6664E-14
Spp1	5.7771E-24	2.81814795	0.995	0.812	1.3703E-19	Ipcsf1	6.4239E-18	-1.74359811	0.563	0.953	1.5237E-13
Cd274	1.5297E-23	8.78375428	0.807	0	3.6282E-19	Slc34a1	1.7009E-17	-2.25423756	0.178	0.734	4.0343E-13
F830016B08R	2.6222E-23	9.51552702	0.802	0	6.2196E-19	mt-Atp6	1.7173E-17	-1.42328248	0.741	1	4.0732E-13
Gbp8	7.6199E-23	8.33135264	0.792	0	1.8074E-18	mt-Nd4	4.0999E-17	-1.64727856	0.665	0.953	9.7246E-13
Gbp7	1.2917E-22	8.61085287	0.787	0	3.0638E-18	Lrp2	1.3065E-16	-2.86584419	0.071	0.547	3.099E-12
Serpinb9	3.4744E-22	3.73072266	0.888	0.375	8.2408E-18	Slc16a7	3.6478E-16	-1.61701154	0.599	0.969	8.6523E-12
Chd9	3.7418E-22	2.29784366	0.98	0.891	8.8751E-18	Gulp1	4.5768E-16	-2.1417899	0.426	0.859	1.0855E-11
Olfr56	6.1554E-22	8.22474001	0.772	0	1.46E-17	Cpeb3	2.3799E-15	-1.4909118	0.685	0.938	5.6448E-11
Parp14	4.3086E-21	6.37388563	0.766	0.031	1.022E-16	Gm42418	3.0738E-15	-1.14575693	1	1	7.2908E-11
H2-Q7	7.7269E-21	8.01736781	0.746	0	1.8327E-16	Rp1	3.0954E-14	-1.78871787	0.371	0.859	7.342E-10
Zfp981	3.2497E-20	2.76055928	0.959	0.75	7.708E-16	Tbcl1d5	3.1528E-14	-1.48358952	0.746	0.953	7.4781E-10
Oas12	1.4863E-18	7.72455053	0.69	0	3.5253E-14	Wscd2	3.4095E-14	-1.61720575	0.437	0.906	8.0869E-10
Tnfrsf10	1.8646E-18	7.11186529	0.695	0.016	4.4227E-14	Irs1	4.1291E-14	-1.43759929	0.64	0.984	9.7938E-10
Gm16685	5.5983E-18	2.88945848	0.848	0.328	1.3279E-13	mt-Cytb	6.2248E-14	-1.75176056	0.472	0.906	1.4765E-09
Ubd	9.101E-18	7.77179469	0.67	0	2.1587E-13	Aldob	7.0474E-14	-2.11955498	0.335	0.828	1.6716E-09
Rnf213	9.4866E-18	3.4867635	0.797	0.266	2.2501E-13	Syt7	1.0487E-13	-2.52619718	0.203	0.656	2.4874E-09
Irgm2	1.1493E-17	6.95201478	0.675	0.016	2.726E-13	Egf	1.2162E-13	-4.06823405	0.041	0.406	2.8847E-09
Psmb8	1.277E-17	6.48823565	0.675	0.016	3.0289E-13	Akr1c21	1.265E-13	-2.68569401	0.091	0.516	3.0004E-09
Akt3	2.09E-17	3.34070906	0.777	0.141	4.9573E-13	Slc26a4	1.5195E-13	-1.08194835	0.858	1	3.6042E-09
Nlr5	3.4248E-17	7.35103558	0.655	0	8.1232E-13	Miox	3.0678E-13	-2.52223966	0.091	0.516	7.2766E-09
Gm42031	4.4715E-17	3.20490236	0.843	0.484	1.0606E-12	Klhl3	4.6118E-13	-1.92644781	0.279	0.734	1.0939E-08
H2-Eb1	5.9902E-17	5.97430227	0.67	0.031	1.4208E-12	Baiap2l2	5.5251E-13	-1.77660698	0.254	0.734	1.3105E-08
Defb1	7.2051E-17	3.56805787	0.822	0.312	1.709E-12	Cms1	1.7039E-12	-1.2451982	0.893	1	4.0414E-08
H2-Ab1	2.6311E-16	4.83462859	0.67	0.031	6.2407E-12	Nfyc	1.9968E-12	-1.14555361	0.721	0.938	4.7362E-08
H2-Aa	4.5082E-16	5.2633109	0.665	0.062	1.0693E-11	Map2k6	2.1661E-12	-4.18426247	0.015	0.297	5.1378E-08
Ptbp3	6.7463E-16	1.56464889	0.964	0.828	1.6002E-11	4732463B04Ri	2.5969E-12	-1.80541426	0.32	0.797	6.1596E-08
Clec2d	7.1884E-16	4.28586923	0.695	0.109	1.705E-11	Btbd11	2.8802E-12	-2.02874219	0.142	0.578	6.8315E-08
Gm4841	1.0229E-15	7.87154322	0.614	0	2.4262E-11	mt-Nd3	4.3213E-12	-3.01697559	0.076	0.438	1.025E-07
Herc6	1.3213E-15	5.28136327	0.655	0.078	3.1341E-11	Rap1gap	6.0961E-12	-1.67536858	0.284	0.766	1.4459E-07
H2-T23	2.4409E-15	5.17498274	0.629	0.031	5.7895E-11	Rap1gap2	6.2395E-12	-1.17490464	0.569	0.984	1.48E-07
Apoe	4.0041E-15	4.69403707	0.655	0.078	9.4973E-11	mt-Co3	1.4434E-11	-1.0001695	0.685	1	3.4236E-07
Plac8	5.5589E-15	6.41974545	0.604	0.016	1.3185E-10	March3	2.2339E-11	-1.60875028	0.437	0.844	5.2985E-07
H2-Q4	5.5989E-15	4.90686738	0.619	0.016	1.328E-10	Pcyt2	2.5363E-11	-2.21317173	0.218	0.641	6.0158E-07
Camk2b	3.6684E-14	3.73724492	0.751	0.297	8.7011E-10	Rtl4	2.9749E-11	-1.80910314	0.569	0.828	7.0562E-07
Gm12185	4.8969E-14	5.70672917	0.589	0.031	1.1615E-09	Prkca	3.3083E-11	-1.3527955	0.716	0.984	7.847E-07
H2-Q6	8.0059E-14	7.02601214	0.558	0	1.8989E-09	mt-Co2	4.3257E-11	-1.10351791	0.736	0.969	1.026E-06
Tap1	9.2478E-14	5.953752	0.579	0.031	2.1935E-09	Lsamp	4.8174E-11	-1.45514102	0.792	0.922	1.1426E-06
Irf1	1.024E-13	4.00400975	0.655	0.141	2.4288E-09	Grb10	5.182E-11	-1.23685002	0.675	0.953	1.2291E-06
Sp100	6.8921E-13	4.95206829	0.553	0.016	1.6347E-08	Hmx2	6.4501E-11	-1.66959179	0.299	0.781	1.5299E-06
Serpin1	7.4851E-13	7.11674464	0.528	0	1.7754E-08	Dhrs3	7.6559E-11	-1.73830104	0.239	0.672	1.8159E-06
Psmb9	2.2076E-12	6.74103849	0.513	0	5.2362E-08	Pank1	9.7365E-11	-1.82139514	0.269	0.688	2.3094E-06
Tapbp	3.1472E-12	2.41919944	0.736	0.344	7.4648E-08	Sctr	1.0681E-10	-2.19198471	0.183	0.578	2.5335E-06
Gbp3	3.1495E-12	6.84553316	0.508	0	7.4702E-08	Zbtb7c	1.5887E-10	-2.68190716	0.127	0.484	3.7683E-06
Apobec3	3.7726E-12	4.66097042	0.569	0.078	8.9482E-08	Cyp4a10	1.6486E-10	-5.4823208	0.005	0.219	3.9103E-06
Ccl5	4.4816E-12	7.74126726	0.503	0	1.063E-07	Ybx2	1.6885E-10	-2.47333184	0.102	0.453	4.005E-06
Parp9	1.4753E-11	3.3487635	0.594	0.141	3.4992E-07	Fam13a	1.7224E-10	-1.30868805	0.619	0.984	4.0852E-06
AU020206	1.7914E-11	7.05349695	0.482	0	4.2489E-07	Fbp1	2.091E-10	-3.25748809	0.041	0.328	4.9597E-06
Clu	2.1397E-11	3.47668033	0.665	0.219	5.0751E-07	Ivd	3.2047E-10	-2.18050055	0.142	0.516	7.6012E-06
Cxcl10	4.9336E-11	7.96789054	0.467	0	1.1702E-06	Gbe1	3.5613E-10	-1.24526665	0.538	0.953	8.4471E-06
Ifitm3	5.5162E-11	4.11929607	0.523	0.047	1.3084E-06	Slc25a12	3.5845E-10	-1.13859671	0.533	0.859	8.5021E-06
AW112010	6.8819E-11	6.96841415	0.462	0	1.6323E-06	Snta1	3.6771E-10	-2.13118819	0.152	0.531	8.7218E-06
Tmsb10	8.2267E-11	4.85138902	0.503	0.047	1.9513E-06	Tmem27	5.4789E-10	-1.8881623	0.162	0.562	1.2995E-05
Ly22	2.544E-10	6.81584448	0.442	0	6.0342E-06	Sh2d4a	5.7641E-10	-1.39522359	0.315	0.734	1.3672E-05
Etv6	4.4942E-10	1.52865304	0.848	0.672	1.066E-05	mt-Nd5	9.2317E-10	-1.84448429	0.264	0.656	2.1897E-05
Lcn2	4.8231E-10	6.64045145	0.431	0	1.144E-05	Keg1	1.1412E-09	-2.14129499	0.147	0.516	2.7068E-05
Rps29	5.1199E-10	1.86261495	0.802	0.422	1.2144E-05	Dnmt3a	1.1468E-09	-1.00849169	0.569	0.906	2.7201E-05
Stat3	5.6227E-10	1.27966865	0.888	0.578	1.3366E-05	Mboat2	1.4427E-09	-1.70667299	0.294	0.672	3.4219E-05
Tgtp2	6.6181E-10	6.18607619	0.426	0	1.567E-05	Mep1a	1.6219E-09	-2.26924173	0.081	0.406	3.847E-05
Cd52	9.3027E-10	5.9484321	0.437	0.016	2.2065E-05	Zfp395	2.2596E-09	-1.5320262	0.254	0.688	5.3596E-05
Tmem140	9.5121E-10	4.81946353	0.457	0.031	2.2562E-05	Cyp2a4	3.0374E-09	-6.11371425	0	0.172	7.2045E-05
Trim12a	1.171E-09	2.48383757	0.624	0.234	2.7774E-05	Pfkf	3.7441E-09	-2.64531948	0.046	0.312	8.807E-05
Sh3bgrl3	1.4722E-09	3.13302028	0.569	0.172	3.4918E-05	Ass1	3.9481E-09	-1.87225977	0.142	0.516	9.3646E-05
Stat2	1.4877E-09	3.16468264	0.523	0.094	3.5288E-05	mt-Nd1	3.9915E-09	-1.23132065	0.482	0.828	9.4675E-05
Bst2	1.6867E-09	6.35408518	0.411	0	4.0008E-05	Car2	4.0094E-09	-1.05483364	0.761	0.938	9.51E-05
Adgrf5	1.9549E-09	2.0046212	0.711	0.281	4.6369E-05	Bckdhd	4.1022E-09	-1.63468572	0.239	0.609	9.73E-05
Pkhd1	2.2764E-09	1.44763832	0.929	0.984	5.3994E-05	Clnk	4.7335E-09	-2.13826475	0.208	0.562	0.00011227
Vmp1	3.0597E-09	1.49874682	0.817	0.594	7.2573E-05	Gna11	5.8441E-09	-2.00615803	0.112	0.438	0.00013862
Cebpd	3.6195E-09	2.98203444	0.497	0.078	8.5851E-05	Ptprd	6.64E-09	-1.54949896	0.299	0.703	0.00015749
Sh3rf1	4.493E-09	1.59617918	0.883	0.75	0.00010657	Hhatri	6.8293E-09	-2.59200339	0.041	0.297	

Rpl19	4.928E-08	1.58544601	0.772	0.5	0.00116887	Gm12121	2.9323E-08	-1.01270125	0.675	0.922	0.00069552
Rsad2	5.8563E-08	7.07133923	0.35	0	0.00138906	Plekhd1	3.0697E-08	-1.25210077	0.386	0.734	0.0007281
Idnk	6.3027E-08	2.82325264	0.452	0.078	0.00149493	Idi1	3.1651E-08	-2.82972432	0.03	0.25	0.00075073
Fbxw17	7.067E-08	3.01697634	0.457	0.094	0.00167623	Dtna	3.5213E-08	-1.13060808	0.452	0.812	0.00083521
Dtx3l	7.8305E-08	3.95653894	0.376	0.016	0.00185731	Baiap2	3.532E-08	-1.49093208	0.299	0.672	0.00083777
Parp12	9.9897E-08	2.83074796	0.462	0.094	0.00236945	Slc27a1	3.6197E-08	-1.86334421	0.117	0.438	0.00085856
Pat12	1.0276E-07	6.00946642	0.34	0	0.00243743	Tmem61	4.1839E-08	-1.9612833	0.132	0.453	0.00099238
Parp8	1.3017E-07	3.38181749	0.437	0.078	0.00308742	Fam107b	4.313E-08	-1.15749299	0.487	0.828	0.00102301
2810474O19R	1.3075E-07	1.91742037	0.706	0.531	0.00310122	Bsnd	4.3671E-08	-1.64849381	0.193	0.531	0.00103583
	1.4487E-07	1.93495681	0.675	0.375	0.0034361	Ugt13a1	4.5046E-08	-4.02423754	0.01	0.188	0.00106844
Rps24	1.4637E-07	1.43230735	0.848	0.688	0.00347164	Rhcg	4.6763E-08	-1.25437383	0.508	0.812	0.00110917
Tpt1	1.5278E-07	2.82190631	0.452	0.094	0.00362376	Aco2	4.9005E-08	-1.11976468	0.609	0.844	0.00116234
Ifi27	1.6379E-07	1.79740574	0.635	0.359	0.00388498	Gas6	5.7676E-08	-1.70083863	0.259	0.609	0.00136802
Map3k1	1.6459E-07	1.62834366	0.736	0.547	0.00390396	Tcn2	6.1222E-08	-1.42338729	0.213	0.594	0.00145213
Trim30a	1.7871E-07	3.17966171	0.426	0.078	0.00423872	Ttll5	9.1567E-08	-1.55809091	0.31	0.641	0.00217189
Mndal	1.8473E-07	4.63408713	0.355	0.016	0.00438163	Pm20d1	1.006E-07	-2.1282261	0.091	0.375	0.00238609
Samd9l	1.9673E-07	1.80755248	0.619	0.297	0.00466625	Nat8f1	1.1159E-07	-2.2911205	0.071	0.328	0.00264687
Ddx58	2.1828E-07	2.45252667	0.518	0.172	0.00517745	Sfxn2	1.1518E-07	-1.94206185	0.147	0.469	0.00273184
Pigr	2.2588E-07	3.56625579	0.431	0.094	0.00535771	Acacb	1.1997E-07	-1.58969329	0.259	0.594	0.00284557
Socs1	2.277E-07	3.93818453	0.355	0.016	0.0054009	Col4a4	1.4547E-07	-1.41082715	0.426	0.766	0.00345047
Psmb10	2.3212E-07	4.20945527	0.381	0.047	0.00550554	Ccs	1.5082E-07	-1.34583069	0.35	0.688	0.00357733
Eef1a1	2.4928E-07	1.13029499	0.888	0.766	0.00591268	Ttrpc5	1.6591E-07	-2.37056987	0.188	0.5	0.00393518
Icam1	2.912E-07	4.10410306	0.35	0.016	0.00690686	Asph	1.7319E-07	-1.57313003	0.239	0.578	0.00410797
Gna13	3.0215E-07	1.89973555	0.604	0.266	0.00716671	Insig1	1.9097E-07	-2.70019408	0.036	0.25	0.00452955
H2-T22	3.4392E-07	2.66593835	0.431	0.078	0.00815755	Rdh16f2	2.0676E-07	-3.38977071	0.005	0.156	0.00490408
Stxbp3	3.5943E-07	2.25665117	0.543	0.219	0.00852538	Slc22a8	2.0676E-07	-3.93179145	0.005	0.156	0.00490408
C130026I21Ri	4.2553E-07	3.3928666	0.426	0.094	0.01009318	Fosb	2.244E-07	-4.1223654	0.02	0.203	0.00532263
Desi1	4.2907E-07	2.00837503	0.569	0.266	0.01017709	Acot3	2.5764E-07	-2.65818653	0.03	0.234	0.00611108
Itgav	5.2672E-07	1.50452223	0.863	0.812	0.01249324	Gm37381	2.6604E-07	-2.37848482	0.076	0.328	0.00631016
Clic1	7.6431E-07	1.77739427	0.629	0.312	0.01812871	Tnfaip8	2.6904E-07	-1.48755712	0.345	0.656	0.00638137
Il34	7.6532E-07	4.50727385	0.36	0.047	0.01815253	Ngef	2.7041E-07	-1.05267755	0.396	0.781	0.00641382
Rps20	7.7384E-07	1.6137303	0.695	0.484	0.01835468	Malrd1	3.1514E-07	-1.45458618	0.619	0.781	0.00747474
Vcam1	9.018E-07	5.88641481	0.299	0	0.0213897	Aadat	3.1574E-07	-2.81056585	0.025	0.219	0.00748915
Cxcl9	9.018E-07	6.13468844	0.299	0	0.02138987	Wnk1	3.3004E-07	-1.2825796	0.716	0.922	0.00782813
Cxadr	9.4431E-07	1.68172905	0.68	0.469	0.02239799	Acaa1b	3.5201E-07	-2.69870382	0.02	0.203	0.0083494
Vps54	1.0056E-06	1.57766397	0.65	0.359	0.02385077	Tmem52b	3.7157E-07	-1.41098942	0.198	0.531	0.00881328
Psme1	1.1375E-06	2.53431393	0.462	0.141	0.02698068	Arhgap24	3.8179E-07	-1.11426644	0.533	0.828	0.00905561
Nampt	1.2374E-06	1.85970021	0.584	0.312	0.02934963	Gpam	3.9794E-07	-2.01776901	0.112	0.391	0.00943881
Rtp4	1.5852E-06	3.1615231	0.36	0.047	0.03759921	Egr1	4.5133E-07	-1.54828509	0.269	0.578	0.01070504
Rps9	1.6117E-06	1.67544405	0.66	0.391	0.03822846	Ctdspl	4.6365E-07	-1.4554672	0.35	0.688	0.0109973
S100a6	1.6697E-06	2.7002804	0.447	0.125	0.03960374	Esrra	4.7147E-07	-1.25452991	0.325	0.672	0.01118271
						Gm10801	4.9939E-07	-5.91838183	0	0.125	0.01184497
						Cyp4a14	4.9939E-07	-5.46176032	0	0.125	0.01184497
						Arl4d	5.1434E-07	-2.18303145	0.041	0.25	0.01219954
						Map3k21	5.2271E-07	-1.97270708	0.117	0.406	0.01239818
						Arid3b	5.6425E-07	-1.26610754	0.112	0.406	0.01338351
						Eif3j1	5.6719E-07	-1.27522313	0.178	0.516	0.01345326
						Acat1	5.8059E-07	-1.13502616	0.335	0.734	0.01377091
						Pck1	6.0356E-07	-1.8971036	0.061	0.297	0.01431586
						Gga2	6.2085E-07	-1.24857674	0.183	0.516	0.01472599
						Acsm2	6.3935E-07	-1.26640491	0.096	0.375	0.01516465
						Krt80	6.6629E-07	-1.95273167	0.086	0.344	0.01580376
						Rhbg	6.6812E-07	-1.16868888	0.259	0.578	0.0158472
						Fam120c	7.0799E-07	-1.35815994	0.234	0.578	0.01679274
						Atg4b	7.7797E-07	-1.39193959	0.315	0.625	0.01845263
						mt-Nd6	7.939E-07	-2.43139489	0.061	0.281	0.01883054
						Asl	8.9977E-07	-1.9037843	0.071	0.312	0.0213417
						Prir	9.2645E-07	-2.17355961	0.102	0.359	0.02197453
						Sh3pxd2b	1.124E-06	-1.85827585	0.178	0.469	0.02666024
						Nfic	1.1298E-06	-1.0869899	0.355	0.688	0.0267985
						Tesk2	1.1879E-06	-1.18638198	0.457	0.766	0.02817508
						Cyp51	1.2301E-06	-1.37737859	0.117	0.391	0.02917588
						Cyp51	1.3247E-06	-2.33305893	0.071	0.297	0.03142043
						Ppargc1b	1.3808E-06	-1.24459852	0.36	0.719	0.03275134
						Gng4	1.4025E-06	-2.66358525	0.046	0.25	0.03326525
						Adcy9	1.4165E-06	-1.0621358	0.264	0.609	0.03359755
						Bckdha	1.501E-06	-1.2226735	0.213	0.531	0.0356031
						Tef	1.5665E-06	-1.40892989	0.198	0.516	0.0371565
						Rmnd1	1.6501E-06	-1.16215065	0.299	0.641	0.03913806
						Vamp2	1.6611E-06	-1.18153527	0.228	0.562	0.03940034
						Znrf3	1.843E-06	-1.07196918	0.533	0.828	0.04371303
						Adhfe1	1.8656E-06	-1.73610254	0.188	0.484	0.0442509
						Acot11	1.9844E-06	-1.26030881	0.244	0.562	0.04706839
						Tmem241	1.9852E-06	-1.53742965	0.168	0.453	0.04708721
						Ankrd24	2.0623E-06	-1.45219514	0.218	0.531	0.04891669
						Atp6ap1	2.0812E-06	-1.03266159	0.264	0.609	0.04936455

Table S2: Results from differential gene expression TCMR vs. Control

Collecting duct intercalated cells type B

*This Fold Change was calculated between [BALB/c to C57BL/6] and [BALB/c to BALB/c]

Gene upr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj	Gene downr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj
H2-K1	1.9845E-45	5.7055968	0.992	0.152	4.7071E-41	Igfbp5	3.5684E-17	-2.66080389	0.242	0.735	8.4639E-13
Cd74	1.0871E-44	5.84333664	0.975	0.091	2.5785E-40	Gm26870	5.8049E-16	-3.65218808	0.033	0.5	1.3769E-11
B2m	3.126E-44	5.05395191	0.992	0.235	7.4145E-40	Insrr	6.6296E-15	-1.12023064	0.75	0.955	1.5725E-10
Ilgp1	5.4996E-44	8.71482253	0.933	0.023	1.3044E-39	Cpeb2	2.3866E-12	-1.16484094	0.733	0.962	5.6608E-08
H2-D1	3.7616E-43	4.4607229	1	0.356	8.922E-39	Stap1	1.6601E-11	-1.48970693	0.342	0.742	3.9376E-07
Stat1	8.8404E-36	5.27606312	0.883	0.136	2.0969E-31	Slc16a7	3.0519E-11	-1.31995429	0.742	0.909	7.2387E-07
H2-Ab1	1.1161E-31	4.97909326	0.792	0.053	2.6473E-27	Ybx2	8.2904E-11	-2.29960387	0.133	0.523	1.9664E-06
H2-Aa	3.759E-31	5.82577627	0.742	0.015	8.916E-27	Rgs2	9.1685E-11	-1.41478803	0.483	0.788	2.1747E-06
Spp1	3.0848E-30	2.54615053	1	0.758	7.3168E-26	Pear1	1.2504E-10	-1.70184435	0.3	0.667	2.9658E-06
H2-Eb1	6.0665E-30	4.83395216	0.75	0.03	1.4389E-25	Egr1	1.4737E-10	-1.79562394	0.125	0.523	3.4955E-06
Ly6a	5.8352E-28	4.42176586	0.775	0.106	1.3841E-23	Nkap	3.235E-10	-1.99779556	0.342	0.667	7.673E-06
Psmb8	4.1875E-27	8.33120538	0.642	0	9.9323E-23	Rapgef4	7.2847E-09	-2.87085745	0.125	0.439	0.00017279
Tmsb4x	1.8728E-26	2.90756901	0.908	0.402	4.442E-22	Pclo	9.7864E-08	-1.06944586	0.633	0.841	0.00232123
Gbp2b	3.1496E-26	9.22664011	0.625	0	7.4706E-22	Malrd1	2.2792E-07	-1.1625276	0.675	0.811	0.00540607
Irgm1	9.5932E-25	4.8352982	0.675	0.068	2.2754E-20	Tbck	1.228E-06	-1.09054449	0.45	0.72	0.02912666
Ly6e	1.5903E-23	5.80160189	0.6	0.015	3.7721E-19	Rp1	1.7664E-06	-1.05188414	0.458	0.712	0.04189738
H2-T23	1.6065E-23	5.25983234	0.608	0.023	3.8105E-19						
Tapbp	1.962E-23	3.04522818	0.792	0.22	4.6536E-19						
Gbp7	5.3857E-23	7.23296895	0.575	0.008	1.2774E-18						
Ubd	7.4327E-23	8.25436055	0.558	0	1.763E-18						
Tnfrsf10	1.9144E-22	5.89593234	0.583	0.023	4.5408E-18						
Olfrr56	1.6779E-21	4.72123353	0.6	0.045	3.9798E-17						
Parp14	2.2439E-21	5.60421213	0.567	0.023	5.3222E-17						
Tap1	4.3047E-21	6.66307271	0.533	0.008	1.021E-16						
Ifitm3	1.4187E-20	5.20051231	0.558	0.03	3.365E-16						
Nlrc5	3.6589E-20	5.96196345	0.525	0.015	8.6785E-16						
F830016B08R	1.1024E-19	9.16553829	0.492	0	2.6148E-15						
Gm4951	1.1024E-19	9.46391092	0.492	0	2.6148E-15						
H2-Q4	2.6431E-19	5.91990453	0.5	0.008	6.2692E-15						
Tap2	6.7395E-19	4.28342922	0.542	0.038	1.5985E-14						
Gm12185	2.3037E-18	6.9256386	0.475	0.008	5.4642E-14						
Irgm2	3.134E-18	6.29057644	0.483	0.015	7.4336E-14						
Gm16685	7.8568E-18	6.23367997	0.467	0.008	1.8635E-13						
AW112010	1.6888E-17	6.06683893	0.458	0.008	4.0057E-13						
Psmb9	4.8405E-17	4.84470527	0.467	0.015	1.1481E-12						
Rnf213	9.8498E-17	2.98161849	0.692	0.235	2.3363E-12						
Cd274	9.9896E-17	6.59121042	0.442	0.008	2.3694E-12						
Bst2	2.3329E-16	3.33206872	0.55	0.076	5.5335E-12						
Oasl2	2.6335E-16	5.78202616	0.433	0.008	6.2463E-12						
Parp9	3.9186E-16	5.50625397	0.45	0.023	9.2945E-12						
Plac8	7.6197E-16	2.41627091	0.7	0.258	1.8073E-11						
Gbp2	1.2514E-15	7.5854864	0.4	0	2.9681E-11						
Irf1	2.4885E-15	4.62725313	0.475	0.045	5.9024E-11						
Cd52	2.8151E-15	7.19196624	0.392	0	6.6771E-11						
Gm4841	2.8151E-15	7.9201949	0.392	0	6.6771E-11						
H2-Q7	3.0906E-14	7.00444614	0.367	0	7.3306E-10						
Tgtp2	6.7877E-14	7.1967536	0.358	0	1.61E-09						
Fth1	1.7446E-13	1.16206312	0.975	0.78	4.138E-09						
Sp100	2.3949E-13	3.4610973	0.417	0.03	5.6804E-09						
Herc6	2.7088E-13	4.06042456	0.442	0.053	6.425E-09						
Wdr89	1.1202E-12	1.7157337	0.75	0.409	2.6569E-08						
Tmem176a	1.1272E-12	2.05297877	0.717	0.371	2.6735E-08						
Tmsb10	1.1968E-12	2.92179106	0.5	0.106	2.8387E-08						
Gbp3	1.4901E-12	7.13676855	0.325	0	3.5344E-08						
Tpt1	1.8081E-12	1.47657541	0.875	0.576	4.2885E-08						
Cxcl10	3.1801E-12	7.93092733	0.317	0	7.5428E-08						
Gbp8	3.6246E-12	5.54585799	0.333	0.008	8.5972E-08						
Pigr	9.2799E-12	3.33295687	0.442	0.076	2.2011E-07						
Rpl32	1.0637E-11	1.72170421	0.767	0.386	2.523E-07						
Xaf1	1.2378E-11	5.55103987	0.317	0.008	2.936E-07						
Akt3	1.2475E-11	2.01211155	0.658	0.288	2.9589E-07						
Rtp4	2.0667E-11	4.60717863	0.342	0.023	4.902E-07						
Ifi27	2.1334E-11	3.13173383	0.408	0.053	5.0601E-07						
Psmb10	3.274E-11	3.96153686	0.375	0.045	7.7656E-07						
H2-T22	5.1503E-11	3.74857221	0.383	0.053	1.2216E-06						
Rps20	5.7785E-11	1.66895363	0.725	0.379	1.3706E-06						
Rps23	6.8214E-11	1.74833081	0.667	0.288	1.618E-06						
Gm10073	7.4408E-11	1.64742146	0.775	0.492	1.7649E-06						
Serpinb9	1.1107E-10	1.86774601	0.733	0.432	2.6345E-06						
Acadl	1.7324E-10	1.3611353	0.75	0.455	4.109E-06						
Lyz2	2.5372E-10	5.66365156	0.283	0.008	6.018E-06						
Ddx60	2.6791E-10	6.93604164	0.267	0	6.3545E-06						
Rpl27-ps3	2.9355E-10	1.50216022	0.7	0.326	6.9628E-06						
Tmem176b	3.0756E-10	1.60900753	0.717	0.432	7.2951E-06						
Rps9	3.2122E-10	1.49930576	0.725	0.417	7.619E-06						
Clec2d	4.194E-10	2.7784071	0.4	0.068	9.9478E-06						
Gbp5	5.5067E-10	7.5891131	0.258	0	1.3061E-05						
H2-Q6	5.5067E-10	6.2748337	0.258	0	1.3061E-05						
mt-Co1	7.0307E-10	1.0674132	0.917	0.697	1.6676E-05						
Serpin1	1.0832E-09	4.21306886	0.3	0.023	2.5692E-05						
AU020206	1.4219E-09	4.5004546	0.283	0.015	3.3725E-05						
Rps29	1.9146E-09	1.27344282	0.783	0.508	4.5413E-05						
Ii7	2.2914E-09	5.74566791	0.242	0	5.4349E-05						
Socs1	2.361E-09	5.07322262	0.258	0.008	5.6002E-05						
Rpl41	3.1372E-09	1.05294897	0.875	0.644	7.4411E-05						
Patl2	4.6796E-09	5.39706755	0.25	0.008	0.000111						
Txn1	6.0301E-09	1.91773911	0.517	0.189	0.00014303						
Desl1	8.5228E-09	2.44246827	0.417	0.106	0.00020215						
Rplp1	9.8935E-09	1.25449207	0.8	0.515	0.00023466						
Gm26917	1.0087E-08	1.22471686	0.808	0.576	0.00023926						
Actb	1.1E-08	1.15495494	0.875	0.636	0.0002609						
Rplp0	1.4273E-08	1.30799546	0.717	0.402	0.00033854						
Vwa5a	1.5701E-08	2.43345262	0.392	0.098	0.00037241						
Stat2	1.6955E-08	2.27653562	0.433	0.129	0.00040215						

Rps27rt	1.7098E-08	1.15039075	0.8	0.439	0.00040554
Cp	1.8067E-08	2.83014641	0.4	0.098	0.00042854
Rpl27a	1.964E-08	1.59984924	0.65	0.371	0.00046584
Psme1	2.4191E-08	2.22528664	0.45	0.144	0.00057379
Clic1	2.4294E-08	1.52092214	0.558	0.235	0.00057623
Rps19	2.5364E-08	1.57241667	0.625	0.341	0.0006016
Ddx58	3.7089E-08	2.07761994	0.483	0.174	0.00087971
Gm44148	3.7416E-08	5.9257525	0.208	0	0.00088747
Gm11808	4.0978E-08	1.06519073	0.75	0.447	0.00097197
Dtx3l	4.9029E-08	4.15585991	0.242	0.015	0.00116291
Rpl9-ps6	5.7886E-08	1.38939023	0.692	0.409	0.00137301
Map3k1	6.6667E-08	1.18312317	0.708	0.432	0.00158127
Cxcl9	7.4338E-08	6.12755301	0.2	0	0.00176323
Rps12-ps3	8.9888E-08	1.88084078	0.442	0.144	0.00213205
C1qa	1.4703E-07	5.90124857	0.192	0	0.00348744
Rpl14	1.5004E-07	1.45193555	0.658	0.386	0.00355886
Ccl5	1.5943E-07	5.37360981	0.208	0.008	0.00378157
Rps24	1.7074E-07	1.16608965	0.708	0.462	0.00404973
Samhd1	1.7287E-07	2.23626888	0.417	0.144	0.00410038
Tmem140	1.7522E-07	2.77306749	0.3	0.053	0.00415593
Ifi44	2.1176E-07	3.91086542	0.225	0.015	0.00502279
Rpl28	2.1858E-07	1.00797042	0.742	0.432	0.00518454
Nmi	2.2966E-07	2.22678428	0.383	0.114	0.0054472
Dbi	3.146E-07	1.2831794	0.675	0.386	0.00746204
Rps8	3.4454E-07	1.15527774	0.758	0.47	0.00817204
Vcam1	4.2157E-07	3.92820047	0.2	0.008	0.00999912
Scand1	4.7693E-07	1.11657695	0.675	0.364	0.0113123
Rrm2b	4.853E-07	1.08677278	0.667	0.394	0.01151082
Rps27a	5.3E-07	1.14906794	0.658	0.379	0.01257112
Gm6034	5.7301E-07	2.86447904	0.217	0.015	0.01359128
Rpl19	5.8891E-07	1.14450997	0.75	0.523	0.01396837
Rps5	6.8258E-07	1.36117988	0.55	0.25	0.01619014
Cnot6	7.0022E-07	1.07613828	0.767	0.553	0.01660841
Pdzd2	7.2225E-07	1.69836693	0.492	0.205	0.01713101
Rpsa	7.598E-07	1.1956575	0.683	0.455	0.01802173
S100a6	7.976E-07	1.89246464	0.408	0.136	0.01891836
Il18bp	8.6313E-07	3.38516533	0.258	0.045	0.02047255
C3	1.0355E-06	3.2342013	0.208	0.015	0.02456014
Zc3hav1	1.0611E-06	2.08606876	0.375	0.121	0.0251689
Icam1	1.1102E-06	2.86040986	0.267	0.045	0.02633297
Ifih1	1.4284E-06	2.4237448	0.267	0.045	0.03388117
Nudcd3	1.515E-06	1.07617596	0.708	0.508	0.03593464
Rpl22	1.5696E-06	1.22128394	0.567	0.28	0.03722909
Rps16	1.8367E-06	1.28611811	0.558	0.265	0.04356568
Rps25	1.9045E-06	1.3435198	0.575	0.318	0.04517167

Table S2: Results from differential gene expression TCMR vs. Control

Endothelial cells

*This Fold Change was calculated between [C57BL/6 to BALB/c] and [C57BL/6 to C57BL/6]

Gene upr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj	Gene downr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj
Cd74	7.1868E-22	4.80839926	0.993	0.235	1.7046E-17	Btnl9	6.2154E-46	-8.58340861	0.005	0.412	1.4742E-41
Ilgp1	4.3815E-21	4.55268857	0.985	0.324	1.0393E-16	Cyp4a10	1.6771E-43	-5.90564341	0.012	0.471	3.978E-39
H2-K1	2.0387E-20	2.36339391	0.998	0.794	4.8355E-16	Acac1b	2.1256E-43	-5.73160018	0.019	0.529	5.0417E-39
Gbp2	1.1531E-19	4.85292362	0.951	0.147	2.7349E-15	Gm26870	4.862E-41	-5.48785369	0.042	0.647	1.1532E-36
Spp1	2.9471E-17	2.74181718	0.993	0.882	6.9903E-13	Dnase1	3.5428E-38	-6.99656172	0.005	0.353	8.4032E-34
H2-D1	7.7598E-17	1.91480695	1	0.824	1.8405E-12	Igfbp5	3.9717E-37	-5.59084408	0.088	0.794	9.4204E-33
Gm20663	9.1395E-17	3.99332267	0.914	0.265	2.1678E-12	Ces1d	6.3339E-37	-5.8805355	0.008	0.382	1.5023E-32
Gm4951	1.5873E-16	4.2009712	0.89	0.147	3.7648E-12	Pah	8.4493E-37	-4.33563673	0.047	0.647	2.0041E-32
H2-Aa	4.1247E-16	4.44378314	0.863	0.147	9.7834E-12	Miox	7.2536E-36	-3.87702158	0.122	0.882	1.7205E-31
Vcam1	6.3534E-16	4.27772779	0.885	0.147	1.507E-11	Slc34a1	7.4092E-34	-4.37636162	0.162	0.941	1.7574E-29
B2m	1.2263E-15	1.84354301	0.997	0.853	2.9086E-11	Egf	2.9779E-33	-5.11464446	0.037	0.559	7.0633E-29
Ubd	1.5506E-15	7.85961963	0.807	0	3.6779E-11	Rdh16f2	3.1956E-33	-5.56278015	0.008	0.353	7.5796E-29
H2-Eb1	3.7235E-15	4.06029039	0.848	0.147	8.8317E-11	Nat8f1	5.3733E-33	-4.85277148	0.046	0.588	1.2745E-28
Gbp5	7.1696E-15	4.43534381	0.841	0.147	1.7006E-10	Slc13a3	2.5494E-31	-4.36448334	0.03	0.5	6.047E-27
H2-Ab1	2.1E-14	3.34844772	0.868	0.235	4.981E-10	Slc22a8	3.9081E-31	-5.2246271	0.022	0.441	9.2696E-27
H2-Q7	4.1645E-14	2.97131117	0.871	0.265	9.8777E-10	Gm10800	1.4518E-29	-7.14140394	0.003	0.265	3.4436E-25
Tmsb4x	4.2031E-14	2.12184953	0.983	0.735	9.693E-10	Ugt3a1	3.9993E-28	-5.66874743	0.014	0.353	9.4858E-24
Irgm1	4.3544E-14	3.31122615	0.848	0.206	1.0328E-09	Hlf	2.3616E-27	-3.65610766	0.044	0.529	5.6015E-23
Cd274	1.5492E-13	3.94773115	0.807	0.059	3.6746E-09	Igfbp4	4.4773E-27	-3.76177159	0.105	0.735	1.062E-22
Stat1	2.8239E-13	2.58387933	0.897	0.235	6.698E-09	Cyp2a4	8.3217E-26	-4.69607146	0.02	0.382	1.9738E-21
Ly6a	8.1753E-13	1.9179867	0.966	0.794	1.9391E-08	Slc22a7	1.6749E-25	-5.22860697	0.003	0.235	3.9727E-21
Cxcl10	1.0058E-12	8.27556156	0.714	0	2.3856E-08	D630029K05R1	6.9646E-25	-6.82898092	0.002	0.206	1.6519E-20
Irf1	1.539E-12	3.08465985	0.819	0.235	3.6503E-08	Cyp2d26	8.1433E-25	-5.64758074	0.002	0.206	1.9315E-20
AAW112010	1.7189E-12	4.63201098	0.745	0.059	4.077E-08	Eci3	2.1042E-24	-5.29245208	0.01	0.294	4.991E-20
Vim	1.3211E-11	3.74804494	0.775	0.147	3.1335E-07	Ass1	1.3357E-22	-3.13195874	0.218	0.882	3.1682E-18
H2-Q4	1.7224E-11	3.1622977	0.766	0.206	4.0853E-07	Acsm2	3.9E-22	-3.39343717	0.127	0.706	9.2504E-18
Wars	2.1427E-11	3.08744849	0.788	0.265	5.0822E-07	Npr3	5.7863E-22	-5.23267917	0.022	0.353	1.3725E-17
Col4a2	3.6339E-11	2.13967519	0.882	0.559	8.6193E-07	Clec2h	6.7104E-22	-3.65112074	0.003	0.206	1.5916E-17
Gbp7	7.8305E-11	1.96257321	0.876	0.382	1.8573E-06	Aldob	9.7243E-22	-2.82554922	0.425	1	2.3065E-17
Ifitm3	8.3845E-11	2.06213193	0.932	0.676	1.9887E-06	Kap	9.7888E-22	-3.08001998	0.902	1	2.3218E-17
Parp14	9.0157E-11	2.06491954	0.865	0.412	2.1384E-06	Sord	1.6471E-21	-3.53201411	0.118	0.676	3.9068E-17
Cxcl9	1.0163E-10	7.82462612	0.638	0	2.4106E-06	Chrna4	4.3929E-21	-7.31178106	0.002	0.176	1.0419E-16
Psmb8	1.1024E-10	2.33050108	0.827	0.324	2.6149E-06	Dbp	7.7786E-21	-3.19359716	0.071	0.559	1.845E-16
NlrC5	1.6085E-10	2.76465871	0.763	0.235	3.8153E-06	Akr1c21	7.9486E-21	-3.65215428	0.113	0.647	1.8853E-16
Irgm2	3.7207E-10	3.19954111	0.719	0.206	8.825E-06	Slc22a12	8.2987E-21	-3.74985611	0.068	0.529	1.9684E-16
Gm26917	6.2231E-10	2.45082277	0.809	0.412	1.4761E-05	Ugt3a2	1.4529E-20	-3.68900161	0.036	0.412	3.4461E-16
Col4a1	8.0038E-10	1.64561385	0.932	0.647	1.8984E-05	Fbp1	3.3736E-20	-3.55554934	0.068	0.529	8.0017E-16
Rnf213	1.3107E-09	1.68196142	0.898	0.588	3.109E-05	mt-Nd2	1.2557E-19	-2.6287747	0.611	1	2.9784E-15
Serping1	1.4278E-09	4.3950961	0.631	0.059	3.886E-05	Lrp2	1.3E-19	-3.09203496	0.154	0.735	3.0834E-15
Xdh	2.0358E-09	3.04715104	0.731	0.265	4.8287E-05	Fmo2	2.5051E-19	-4.02964497	0.041	0.412	5.9419E-15
Lyz2	2.0937E-09	5.22425041	0.606	0.029	4.966E-05	Ak4	2.5051E-19	-3.95381623	0.041	0.412	5.9419E-15
AA467197	2.4973E-09	6.98308426	0.579	0	5.9235E-05	Pck1	6.3124E-19	-3.55192317	0.098	0.588	1.4972E-14
Tmsb10	2.6974E-09	1.95964309	0.799	0.324	6.3979E-05	mt-Cytb	2.0745E-18	-2.5968016	0.482	0.971	4.9205E-14
Slco3a1	2.8162E-09	1.7055264	0.904	0.647	6.6796E-05	Khk	2.6414E-18	-2.77703446	0.103	0.618	6.2653E-14
H2-T23	3.3966E-09	1.81437391	0.843	0.529	8.0564E-05	Fmo1	3.9839E-18	-3.39472436	0.059	0.471	9.4494E-14
Emp1	5.6952E-09	3.99760383	0.643	0.147	0.00013508	Ttc36	4.1691E-18	-2.46187779	0.271	0.912	9.8888E-14
Rai14	6.6399E-09	1.51654564	0.922	0.735	0.00015749	mt-Nd5	4.8625E-18	-3.09459818	0.247	0.794	1.1533E-13
Clic4	7.859E-09	1.75938392	0.922	0.735	0.00018641	Ltbp1	6.6987E-18	-3.6475583	0.103	0.588	1.5889E-13
Chd9	1.3055E-08	1.38688263	0.961	0.765	0.00030964	Slc22a6	8.1777E-18	-3.50452567	0.069	0.5	1.9397E-13
Olfr56	1.9227E-08	3.02881866	0.645	0.118	0.00045604	Gm42418	1.9134E-17	-1.71783544	1	1	4.5384E-13
Pkm	1.9772E-08	2.05398359	0.783	0.412	0.00046898	Pdzk1	2.0133E-17	-3.17153795	0.118	0.618	4.7753E-13
Cd52	2.2008E-08	6.29814378	0.535	0	0.000522	Mep1a	2.9823E-17	-2.7374597	0.14	0.676	7.0737E-13
Samhd1	2.2358E-08	2.3020874	0.778	0.324	0.0005303	mt-Atp6	3.8173E-17	-2.04185458	0.814	1	9.0543E-13
Carnk2d	2.9702E-08	1.33153574	0.944	0.765	0.00070451	Dkk2	4.2432E-17	-2.70895558	0.129	0.647	1.0064E-12
Tspo	3.8045E-08	2.12459557	0.778	0.471	0.00090239	Cyp2d12	6.5456E-17	-7.38167763	0	0.118	1.5526E-12
Psmb9	3.9399E-08	2.60061144	0.677	0.235	0.00093451	Gatm	6.9656E-17	-2.86479873	0.154	0.706	1.6522E-12
Rtn4	5.0725E-08	2.07487571	0.792	0.471	0.00120315	mt-Nd4	8.3768E-17	-2.43268187	0.721	0.971	1.9869E-12
Sh3bgrl3	5.7201E-08	2.06007915	0.75	0.324	0.00135674	Slc22a28	1.0541E-16	-4.68223152	0.012	0.235	2.5003E-12
Tap1	7.8061E-08	2.013355	0.738	0.265	0.00185152	Acy1	2.8038E-16	-5.8898554	0.005	0.176	6.6504E-12
Gbp3	7.9428E-08	2.789391	0.641	0.176	0.00188395	Cyp4a14	4.6639E-16	-4.2064359	0.005	0.176	1.1062E-11
Clic1	1.0249E-07	1.4911945	0.875	0.647	0.002431	Ces1f	6.8088E-16	-3.51791092	0.036	0.353	1.615E-11
Slc38a2	1.1764E-07	2.02138247	0.731	0.324	0.00279034	9530026P05R1	1.3563E-15	-2.38757351	0.386	0.941	3.2169E-11
Adams6	1.8648E-07	2.14082164	0.77	0.471	0.00442313	Gpx3	1.4188E-15	-1.96367291	0.944	1	3.3653E-11
Sbno2	2.2095E-07	3.06812872	0.58	0.118	0.00524083	Cela1	1.9218E-15	-3.51640512	0.024	0.294	4.5584E-11
Flnb	2.3175E-07	1.47195172	0.887	0.676	0.0054969	Tmem174	1.9998E-15	-2.67616413	0.1	0.559	4.7432E-11
Spop	2.6293E-07	1.78490522	0.802	0.529	0.00623636	Spp2	2.5131E-15	-3.80935021	0.014	0.235	5.9609E-11
Ccl5	3.3089E-07	3.71600147	0.525	0.029	0.00784844	Acadm	4.7967E-15	-2.83890079	0.144	0.647	1.1377E-10
Herc6	4.0478E-07	1.7132027	0.75	0.353	0.00960091	Tmem27	4.8563E-15	-2.87236948	0.217	0.706	1.1519E-10
S100a6	4.2783E-07	1.62762033	0.829	0.588	0.01014772	Gm10801	1.0134E-14	-5.5218905	0.003	0.147	2.4038E-10
Pfkfb3	4.362E-07	2.38137392	0.648	0.206	0.01034619	mt-Nd3	1.1246E-14	-3.32442377	0.068	0.441	2.6675E-10
H2-Q6	4.5951E-07	2.12445792	0.679	0.235	0.01089923	Car14	1.1498E-14	-5.03222866	0.003	0.147	2.7273E-10
Ciita	4.8125E-07	3.14851427	0.563	0.118	0.01141486	Stard10	1.7994E-14	-2.62041403	0.112	0.559	4.2681E-10
Apobec3	5.4796E-07	1.78934719	0.731	0.412	0.012997	mt-Co2	5.9631E-14	-2.06898019	0.723	0.941	1.4144E-09
Tapbp	8.2757E-07	1.52175086	0.819	0.471	0.01962915	Pbx1	9.5459E-14	-1.59621808	0.978	1	2.2642E-09
Fxyd5	9.2749E-07	2.78497199	0.585	0.176	0.02199918	Cms1	1.4447E-13	-1.52981089	0.953	1	3.4267E-09
Casp4	9.6605E-07	3.58710879	0.513	0.059	0.02291378	Keg1	2.4662E-13	-3.11781532	0.21	0.676	5.8497E-09
Rnf19b	1.3817E-06	2.78065658	0.562	0.118	0.0327724	Ntf3	5.1675E-13	-3.46940218	0.054	0.382	1.2257E-08
Parp9	1.4138E-06	2.10833531	0.643	0.235	0.03353285	Car4	6.7792E-13	-4.00639723	0.019	0.235	1.608E-08
Gab2	1.6354E-06	1.48826415	0.819	0.5	0.03878921	Cat	6.9319E-13	-2.04372458	0.235	0.765	1.6442E-08
Litaf	1.6548E-06	2.54773197	0.577	0.147	0.03925007	Fut9	7.703E-13	-3.11093015	0.203	0.706	1.8271E-08
Klf6	1.718E-06	2.27541208	0.648	0.265	0.04074891	Ttr	1.0399E-12	-3.64483583	0.014	0.206	2.4664E-

Nrp1	8.9878E-12	-2.1644606	0.616	0.941	2.1318E-07
Tcn2	1.1389E-11	-2.04922572	0.303	0.765	2.7014E-07
Rdh16	1.1881E-11	-4.00743846	0.022	0.235	2.818E-07
Slc6a20b	2.5352E-11	-3.08639638	0.066	0.382	6.0133E-07
Slc22a30	2.5721E-11	-4.99833901	0.007	0.147	6.1008E-07
Oxct1	3.4512E-11	-2.09020424	0.306	0.824	8.1859E-07
Ctnna3	3.8009E-11	-3.43564892	0.056	0.353	9.0154E-07
Gsta2	6.2978E-11	-3.28714136	0.039	0.294	1.4938E-06
Plekha6	6.6957E-11	-3.2001528	0.069	0.382	1.5882E-06
Slc22a2	1.0762E-10	-3.21577032	0.039	0.294	2.5526E-06
Ltbp4	1.3441E-10	-3.00206146	0.13	0.5	3.1881E-06
Coq8a	1.6196E-10	-3.77571337	0.019	0.206	3.8415E-06
Mgll	2.0197E-10	-1.66788962	0.198	0.676	4.7904E-06
Slc4a4	2.19E-10	-2.06404136	0.283	0.765	5.1945E-06
Cmb1	2.414E-10	-3.3945934	0.034	0.265	5.7257E-06
Gas6	3.5174E-10	-1.51004505	0.467	0.853	8.343E-06
mt-Nd1	4.0169E-10	-1.82755225	0.489	0.882	9.5276E-06
Slc25a10	4.2065E-10	-3.32881088	0.054	0.324	9.9773E-06
Rida	4.452E-10	-1.99907473	0.264	0.706	1.056E-05
Ces2e	5.0531E-10	-3.51231056	0.008	0.147	1.1985E-05
Gm12002	5.1855E-10	-4.48871454	0.02	0.206	1.2299E-05
Ptpu	7.3784E-10	-2.62152539	0.117	0.471	1.7501E-05
Akr7a5	8.5077E-10	-2.86616176	0.08	0.382	2.0179E-05
Galnt11	8.8064E-10	-2.11416342	0.201	0.618	2.0888E-05
Enpep	1.012E-09	-2.82863404	0.076	0.382	2.4005E-05
Hipk2	1.0122E-09	-1.53389925	0.804	0.971	2.4008E-05
Ncald	1.249E-09	-3.46588915	0.046	0.294	2.9625E-05
Prelp	1.3356E-09	-4.76821443	0.005	0.118	3.1679E-05
Gabrb3	1.5773E-09	-3.94570914	0.005	0.118	3.7411E-05
Aldh6a1	1.8307E-09	-2.16732297	0.157	0.559	4.3421E-05
Ephx1	1.9399E-09	-2.48625494	0.086	0.412	4.6013E-05
Cyp4b1	1.97E-09	-2.01716761	0.215	0.647	4.6727E-05
Nr1d1	2.1534E-09	-2.67473489	0.107	0.441	5.1077E-05
Ehhadh	2.3133E-09	-2.73243376	0.09	0.412	5.4868E-05
Cd300lg	2.91E-09	-2.29757711	0.223	0.618	6.9022E-05
mt-Nd4l	3.3602E-09	-2.54253656	0.169	0.529	7.97E-05
Slc16a9	3.3919E-09	-2.7904523	0.037	0.265	8.0454E-05
Wfdc15b	3.7582E-09	-2.99828594	0.047	0.294	8.9141E-05
Slc2a2	4.9607E-09	-3.40092695	0.03	0.235	0.00011766
Hgd	5.0969E-09	-2.39547513	0.056	0.324	0.00012089
O610005C13Ri	6.2768E-09	-3.36119241	0.049	0.294	0.00014888
Pcbd1	6.598E-09	-2.39215665	0.069	0.353	0.0001565
Fxyd2	7.7947E-09	-1.49218772	0.804	0.912	0.00018488
Tmem205	7.9384E-09	-1.96764115	0.2	0.588	0.00018829
Hint2	8.1712E-09	-1.94576069	0.103	0.441	0.00019381
Chpt1	8.3195E-09	-1.25767902	0.45	0.882	0.00019733
Slc22a1	9.6374E-09	-2.70841889	0.049	0.294	0.00022859
Car2	1.0516E-08	-2.07342677	0.195	0.588	0.00024942
Rora	1.1838E-08	-1.9363481	0.472	0.794	0.00028078
Gm4450	1.2526E-08	-3.08776017	0.017	0.176	0.00029709
Ces2c	1.2843E-08	-2.85739554	0.024	0.206	0.00030462
Id4	1.306E-08	-2.94643333	0.017	0.176	0.00030978
Dcxr	1.3404E-08	-2.79579962	0.041	0.265	0.00031792
Hao2	1.549E-08	-2.25661996	0.096	0.412	0.00036741
Gm19951	1.5577E-08	-2.79291215	0.032	0.235	0.00036946
Aadat	1.5893E-08	-2.7744893	0.063	0.324	0.00037697
Ndufa4	1.6521E-08	-1.86043115	0.387	0.824	0.00039187
Spink1	1.8234E-08	-2.16847856	0.232	0.618	0.00043249
Xylb	2.1277E-08	-2.57443626	0.071	0.353	0.00050466
Syne4	2.1612E-08	-3.94475324	0.012	0.147	0.00051261
Susd2	2.213E-08	-3.63453423	0.012	0.147	0.0005249
Cyp2j5	2.4271E-08	-2.02426471	0.152	0.529	0.00057568
Sema6a	2.5275E-08	-1.4312217	0.565	0.912	0.0005995
Tef	2.8887E-08	-1.97554591	0.171	0.529	0.00068518
Pth1r	2.9475E-08	-2.10888223	0.212	0.588	0.00069912
St6galnac3	3.012E-08	-1.56691485	0.514	0.912	0.00071441
Cdk8	3.0798E-08	-1.26130951	0.469	0.853	0.0007305
Slc17a1	3.439E-08	-2.27277176	0.102	0.412	0.0008157
Slc5a9	3.4579E-08	-3.48747852	0.019	0.176	0.00082018
Cyp4a31	3.5649E-08	-2.3661118	0.052	0.294	0.00084557
Aldh7a1	3.6919E-08	-2.2327541	0.088	0.382	0.00087569
Kmo	4.1273E-08	-3.03767803	0.019	0.176	0.00097895
Cox6c	4.1444E-08	-1.47354104	0.46	0.853	0.00098302
Gstt2	4.3009E-08	-1.82952539	0.179	0.559	0.00102012
Tbxa2r	4.7744E-08	-2.37618132	0.076	0.353	0.00113245
Slc7a9	5.5317E-08	-3.02603325	0.036	0.235	0.00131208
Ggt1	5.8435E-08	-2.50930761	0.157	0.5	0.00138602
Acsm1	6.0238E-08	-2.5672357	0.054	0.294	0.00142878
Gk	6.1948E-08	-1.45706983	0.222	0.618	0.00146936
Dlc1	6.7707E-08	-1.74074171	0.702	0.912	0.00160594
Pink1	7.3245E-08	-2.08291448	0.103	0.412	0.00173729
Chst8	7.7726E-08	-2.82461389	0.069	0.324	0.00184358
Aldh8a1	8.1396E-08	-2.88774374	0.046	0.265	0.00193062
Ephb1	8.6042E-08	-2.90226477	0.069	0.324	0.00204083
Abat	8.703E-08	-2.62717305	0.046	0.265	0.00206425
Exoc3l2	9.83E-08	-1.20829718	0.577	0.941	0.00233157
Airn	1.0571E-07	-1.57755583	0.338	0.706	0.00250744
Aldh2	1.0719E-07	-1.7849948	0.244	0.618	0.00254235
Napsa	1.0929E-07	-1.55946364	0.648	0.971	0.00259236
Rflna	1.46E-07	-2.88647729	0.02	0.176	0.00346293
Pecr	1.6398E-07	-2.3149251	0.083	0.353	0.00388955
Gjb2	1.7527E-07	-2.5455758	0.02	0.176	0.00415712
Tmem207	1.8043E-07	-5.39537542	0.008	0.118	0.00427968
Tln2	2.0437E-07	-1.86133556	0.14	0.471	0.00484734
4931406C07Ri	2.0833E-07	-2.17054722	0.159	0.5	0.00494133
Kcnt1	2.1565E-07	-3.59483101	0.008	0.118	0.00511511
Nox4	2.3268E-07	-2.71363295	0.181	0.529	0.00551893
Enpp6	2.3776E-07	-2.55513516	0.071	0.324	0.00563953
Boc	2.6634E-07	-1.72160046	0.193	0.559	0.0063173
Papss2	2.7435E-07	-2.12710645	0.125	0.441	0.00650728

Folr1	2.7926E-07	-2.01889127	0.12	0.441	0.00662371
Slc6a13	2.7996E-07	-2.69817114	0.039	0.235	0.00664038
Celsr2	3.0853E-07	-3.2841775	0.022	0.176	0.00731798
Gcnt1	3.2463E-07	-2.28039833	0.154	0.471	0.00769981
Acvr2b	3.7512E-07	-2.66121351	0.051	0.265	0.00889754
Colgalt2	3.8366E-07	-2.39311856	0.134	0.441	0.00909995
Slc5a2	3.9375E-07	-2.80228353	0.03	0.206	0.00933936
Slc51b	4.1471E-07	-3.5497366	0.015	0.147	0.00983639
Bckdha	4.1973E-07	-1.88962154	0.151	0.471	0.00995557
Tstd1	4.3161E-07	-3.47919398	0.015	0.147	0.01023736
Dach1	4.3764E-07	-2.12267501	0.103	0.382	0.01038037
Nsdhl	4.546E-07	-2.37559067	0.063	0.294	0.01078255
Lpl	4.7099E-07	-2.03502176	0.105	0.382	0.01117136
Plpp1	4.9157E-07	-1.09768975	0.904	1	0.01165945
Uqcrl1	5.585E-07	-1.88506595	0.284	0.647	0.01324697
Pbld1	6.2619E-07	-2.49731598	0.041	0.235	0.01485252
Lzts3	6.515E-07	-2.61089239	0.041	0.235	0.01545303
Sntb1	7.2447E-07	-2.98926459	0.054	0.265	0.01718362
G6pc	7.5038E-07	-3.10430068	0.032	0.206	0.01779815
Atplb1	7.8815E-07	-1.31071596	0.582	0.882	0.01869419
Kdm1b	8.2058E-07	-2.4364069	0.052	0.265	0.01946328
Enpp3	8.5471E-07	-2.58889649	0.032	0.206	0.02027298
Aldh9a1	9.0649E-07	-2.58290887	0.078	0.324	0.02150115
Pank1	9.0649E-07	-2.30658093	0.078	0.324	0.02150115
Hibadh	9.1686E-07	-1.42562089	0.367	0.706	0.02174707
Nat8f3	1.0463E-06	-5.38522813	0.01	0.118	0.02481662
Pklr	1.0704E-06	-3.83505117	0.01	0.118	0.02538866
Slco1a4	1.0704E-06	-5.26991106	0.01	0.118	0.02538866
Slit3	1.0944E-06	-2.44501945	0.068	0.294	0.02595777
Pdk2	1.1375E-06	-3.05991277	0.034	0.206	0.02697943
Nat8f6	1.146E-06	-3.71813185	0.01	0.118	0.02718193
Gm42397	1.1624E-06	-3.64893482	0.044	0.235	0.02757127
Inpp4b	1.229E-06	-1.3554507	0.633	0.882	0.02914985
Sl00g	1.313E-06	-1.3059476	0.294	0.676	0.0311431
Rgl1	1.3561E-06	-1.59369263	0.514	0.794	0.03216482
Aco2	1.3878E-06	-1.34429318	0.36	0.735	0.03291741
Nudt19	1.4239E-06	-1.71341973	0.118	0.412	0.03377265
Glyat	1.5103E-06	-2.06724452	0.159	0.471	0.03582163
Enpp2	1.5262E-06	-1.71470714	0.13	0.441	0.03619914
Tmem204	1.5512E-06	-1.91958727	0.264	0.588	0.0367919
Chchd10	1.581E-06	-1.51556648	0.398	0.735	0.03749911
Chd3	1.6128E-06	-1.96229538	0.162	0.471	0.03825362
Hsd3b2	1.7057E-06	-3.18042222	0.025	0.176	0.04045834
Msrb2	1.8335E-06	-2.67429921	0.017	0.147	0.04348874
Gm2a	1.84E-06	-1.89714674	0.181	0.5	0.04364341
Sptssa	2.0769E-06	-1.82054977	0.142	0.441	0.04926204

Table S2: Results from differential gene expression TCMR vs. Control

Endothelial cells						*This Fold Change was calculated between [BALB/c to C57BL/6] and [BALB/c to BALB/c]					
Gene upr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj	Gene downr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj
Cd74	8.953E-107	4.76151013	0.994	0.264	2.124E-102	Gm26870	3.3698E-87	-6.22244794	0.031	0.794	7.9929E-83
Igfbp1	4.228E-99	4.74523383	0.964	0.226	1.003E-94	Igfbp5	1.7217E-43	-3.5888593	0.248	0.72	4.0837E-39
H2-K1	7.6309E-93	2.47028616	1	0.753	1.81E-88	Meis2	8.2565E-37	-1.04432292	0.969	0.997	1.9584E-32
Spp1	1.0704E-92	2.87434996	1	0.588	2.5389E-88	9530026P05Ril	1.4228E-36	-1.78588927	0.535	0.841	3.3747E-32
B2m	2.6337E-90	2.22871975	1	0.801	6.247E-86	Pbx1	3.3035E-33	-1.08369965	0.989	0.997	7.8355E-29
H2-Ab1	4.8331E-88	4.24279026	0.908	0.142	1.1464E-83	Ddx5	2.2619E-28	-1.05823504	0.844	0.97	5.3649E-24
H2-Eb1	1.796E-87	4.52340383	0.9	0.125	4.2598E-83	Nrp1	3.2205E-28	-1.62647149	0.719	0.875	7.6386E-24
H2-D1	3.6072E-83	2.00566349	0.997	0.885	8.5559E-79	Plpp1	1.0391E-27	-1.1355751	0.9	0.973	2.4646E-23
Gbp2b	3.2229E-82	4.48768867	0.875	0.142	7.6443E-78	Btln9	2.6028E-26	-4.01732172	0.053	0.378	6.1736E-22
H2-Aa	1.5465E-81	4.51573968	0.858	0.108	3.6681E-77	Samd12	2.9039E-26	-1.52567334	0.574	0.851	6.8878E-22
Ubd	7.137E-80	10.738668	0.772	0	1.6928E-75	Ltbp1	3.963E-24	-1.9252842	0.267	0.628	9.3998E-20
Stat1	2.8456E-75	3.29047228	0.9	0.26	6.7494E-71	Npr3	2.2271E-23	-4.66456644	0.042	0.331	5.2824E-19
Ly6a	4.6424E-75	2.45950257	0.969	0.568	1.1011E-70	Limch1	1.0148E-22	-1.20044602	0.671	0.889	2.4071E-18
Tmsb4x	3.0813E-61	1.77584748	1	0.804	7.3085E-57	Miox	2.2034E-22	-2.12073848	0.217	0.551	5.2262E-18
Gbp5	8.4694E-61	4.6264808	0.719	0.084	2.0089E-56	Ntf3	4.5332E-21	-2.36592809	0.084	0.389	1.0752E-16
Gbp7	6.6529E-60	2.51932743	0.877	0.324	1.578E-55	Dnae1	2.4453E-20	-3.83956387	0.022	0.27	5.7999E-16
Gm4951	2.0807E-58	3.31508031	0.808	0.247	4.9351E-54	Fam117b	5.1487E-20	-1.14268293	0.719	0.868	1.2212E-15
Irgm1	6.5339E-57	3.31360656	0.755	0.166	1.5498E-52	Ptpru	1.8117E-19	-1.75910188	0.226	0.541	4.2971E-15
Cxcl10	6.7171E-57	9.39515678	0.607	0.003	1.5932E-52	Chrm3	6.6978E-19	-1.36152028	0.627	0.791	1.5886E-14
Psmb8	1.8709E-55	2.61209787	0.822	0.233	4.4377E-51	Gm12002	9.1898E-19	-2.75415601	0.075	0.345	2.1797E-14
Wars	3.5882E-54	3.75645983	0.735	0.169	8.5109E-50	Dlc1	1.1509E-18	-1.31153254	0.604	0.797	2.7297E-14
Vcam1	8.8841E-52	4.09055171	0.699	0.115	2.1072E-47	Cd300lg	1.2955E-18	-1.8531998	0.209	0.517	3.0729E-14
Serpina3g	1.1398E-50	6.09563974	0.579	0.02	2.7035E-46	Id3	1.7494E-18	-1.4505436	0.421	0.693	4.1495E-14
Cd52	1.0054E-49	6.63301857	0.56	0.01	2.3848E-45	Ushbp1	4.7336E-18	-1.21960255	0.513	0.764	1.1228E-13
Nlrc5	1.2194E-49	2.98091496	0.719	0.139	2.8922E-45	Lrrc3b	6.8405E-18	-2.60371516	0.103	0.375	1.6225E-13
Irgm2	5.554E-49	3.19269825	0.685	0.115	1.3174E-44	Ctnna3	1.1784E-17	-3.62676687	0.058	0.304	2.7951E-13
Actb	2.5816E-48	1.69385195	0.981	0.841	6.1233E-44	Hipk2	1.5346E-17	-1.25989672	0.811	0.885	3.6399E-13
Gbp2	4.9167E-48	3.66772035	0.666	0.135	1.1662E-43	Nat8f1	4.4293E-17	-2.47664109	0.089	0.351	1.0506E-12
Tap1	3.8278E-47	3.59477422	0.638	0.095	9.0791E-43	Plpp3	5.8702E-17	-1.08632961	0.833	0.909	1.3923E-12
Cd274	1.1239E-45	3.4070158	0.666	0.132	2.6657E-41	Prkd1	7.976E-17	-1.68431022	0.421	0.659	1.8918E-12
AW112010	9.2729E-44	3.52388816	0.63	0.108	2.1994E-39	Slc34a1	9.468E-17	-1.72366045	0.301	0.605	2.2457E-12
Clita	4.6232E-41	4.30247083	0.529	0.037	1.0966E-36	Rgcc	5.546E-16	-1.88038015	0.365	0.598	1.3155E-11
Cxcl9	2.7081E-40	9.91549601	0.46	0	6.4233E-36	Kdr	8.573E-16	-1.62673065	0.526	0.703	2.0334E-11
Tapbp	1.4915E-39	1.88644485	0.836	0.422	3.5378E-35	Plscr4	1.3926E-15	-1.1826906	0.426	0.696	3.3031E-11
Tmsb10	1.9547E-39	2.33951592	0.73	0.26	4.6364E-35	Tmem204	2.2878E-15	-1.35758131	0.323	0.581	5.4264E-11
Irf1	8.2529E-38	2.34108181	0.71	0.24	1.9575E-33	Dkk2	2.2908E-15	-1.93565032	0.159	0.422	5.4336E-11
Psmb9	6.0462E-36	2.21231329	0.702	0.247	1.4341E-31	Rdh16f2	1.0993E-14	-2.16010157	0.103	0.348	2.6073E-10
Cd4a1	1.2566E-35	1.56694302	0.914	0.726	2.9804E-31	Ttr	3.2329E-14	-5.12525378	0.006	0.166	7.6681E-10
Gbp3	2.5217E-35	3.0804743	0.554	0.091	5.9811E-31	Efnb2	4.799E-14	-1.59456475	0.279	0.537	1.1383E-09
H2-T23	1.1877E-33	1.63370967	0.83	0.426	2.8171E-29	Mgil	7.514E-14	-1.56295835	0.242	0.497	1.7822E-09
Vim	1.4602E-31	2.00676942	0.682	0.233	3.4635E-27	Sema6a	1.0694E-13	-1.01781653	0.649	0.821	2.5366E-09
Ly2	1.3891E-30	4.82762412	0.421	0.03	3.2947E-26	3110099E03Ril	2.6513E-13	-2.41696954	0.097	0.314	6.2885E-09
Gm26917	2.5776E-30	1.69180162	0.797	0.463	6.1138E-26	Pdia5	2.9412E-13	-1.42046811	0.27	0.514	6.9763E-09
Tap2	2.8064E-30	2.12176526	0.649	0.226	6.6564E-26	Tcim	5.7303E-13	-1.49685444	0.292	0.537	1.3592E-08
S100a11	4.8017E-30	1.57233408	0.777	0.355	1.1389E-25	Rora	6.0065E-13	-1.09006095	0.596	0.767	1.4247E-08
Ifitm3	6.0361E-30	1.40933288	0.922	0.696	1.4317E-25	Dbp	6.4893E-13	-2.18354654	0.095	0.311	1.5392E-08
Tspo	8.5015E-30	1.79198367	0.749	0.358	2.0165E-25	Rasgrf2	1.4895E-12	-2.11030553	0.159	0.382	3.533E-08
Parp14	1.4415E-29	1.49525025	0.822	0.449	3.4192E-25	Sgk1	1.6484E-12	-1.08761507	0.365	0.608	3.9099E-08
Serpig1	6.0631E-29	4.01194184	0.415	0.037	1.4381E-24	Fam20a	1.7767E-12	-1.81429441	0.139	0.361	4.2141E-08
Ccl5	1.085E-28	6.70114509	0.357	0.007	2.5735E-24	Gm10801	1.9124E-12	-5.14690182	0.003	0.139	4.536E-08
Samhd1	1.4481E-27	2.11749087	0.682	0.304	3.4348E-23	Tgfbir3	2.8947E-12	-1.22229297	0.306	0.544	6.8658E-08
Tmem176a	3.8119E-27	1.35521876	0.811	0.436	9.0414E-23	Klf9	4.1015E-12	-1.11475621	0.253	0.51	9.7283E-08
Col4a2	1.3445E-26	1.28699219	0.864	0.598	3.189E-22	Txnip	7.2104E-12	-1.20250504	0.468	0.645	1.7102E-07
H2-Q7	2.0352E-26	2.60466065	0.493	0.105	4.8273E-22	Gm26804	2.0105E-11	-1.15529343	0.485	0.679	4.7687E-07
Rpl32	8.038E-26	1.13988041	0.864	0.598	1.9065E-21	Crispld1	5.0025E-11	-2.08799438	0.081	0.27	1.1865E-06
Rplp0	2.594E-25	1.25275851	0.858	0.551	6.1526E-21	Rnf144a	6.4365E-11	-1.14742488	0.37	0.574	1.5267E-06
Rps20	2.1838E-24	1.18595628	0.872	0.605	5.1797E-20	Alk4	6.4934E-11	-2.18196723	0.056	0.23	1.5402E-06
H2-Q4	3.6285E-24	1.79207247	0.641	0.26	8.6064E-20	Gatm	1.0512E-10	-1.63809896	0.139	0.348	2.4934E-06
Ccnd1	4.3859E-24	2.53195616	0.582	0.23	1.0403E-19	Boc	1.1821E-10	-1.03113855	0.387	0.595	2.8038E-06
Tmem176b	8.9103E-24	1.34830508	0.802	0.463	2.1134E-19	Stard8	1.602E-10	-1.17790398	0.376	0.568	3.7999E-06
Rplp1	1.0319E-23	1.00592979	0.889	0.635	2.4476E-19	Aqp2	1.7122E-10	-1.26796722	0.153	0.361	4.0612E-06
Pfkfb3	1.4918E-23	2.0711681	0.557	0.172	3.5383E-19	Tbxa2r	3.0024E-10	-1.72878428	0.109	0.301	7.1214E-06
Parp9	1.5973E-23	1.92520963	0.585	0.209	3.7886E-19	Epha4	5.2731E-10	-1.31665539	0.259	0.47	1.2507E-05
Rpl27a	8.1643E-23	1.17112868	0.841	0.53	1.9365E-18	Ica1l	6.2424E-10	-2.49186591	0.047	0.199	1.4806E-05
Gm10073	4.4091E-22	1.0140669	0.886	0.622	1.0458E-17	Ces1d	6.8183E-10	-2.76679683	0.025	0.162	1.6172E-05
Rpl22	6.085E-22	1.36284209	0.716	0.392	1.4433E-17	Cmtm8	7.8936E-10	-1.59003162	0.153	0.351	1.8723E-05
Clic1	6.1589E-22	1.34399688	0.808	0.564	1.4608E-17	Nr1d2	8.1887E-10	-1.11552957	0.326	0.527	1.9423E-05
C3	7.0926E-22	3.7929671	0.334	0.034	1.6823E-17	Syn3	8.4481E-10	-1.14742215	0.415	0.608	2.0038E-05
H2-DMa	8.9146E-22	4.06374484	0.306	0.017	2.1145E-17	Tef	8.8886E-10	-1.48905363	0.203	0.395	2.1083E-05
Tgtp2	9.8159E-22	3.70466197	0.323	0.027	2.3282E-17	Nr1d1	9.2278E-10	-2.37656604	0.056	0.213	2.1887E-05
Rpl21	1.0438E-21	4.17138969	0.309	0.02	2.4758E-17	Gm10800	1.6078E-09	-5.869335	0.003	0.105	3.8135E-05
Rnf213	1.2392E-21	1.20522671	0.755	0.429	2.9392E-17	Zdhc14	2.3114E-09	-1.20324243	0.281	0.483	5.4824E-05
Rai14	3.033E-21	1.05078594	0.897	0.703	7.1941E-17	Gm16070	2.6674E-09	-2.89295407	0.045	0.186	6.3268E-05
S100a10	5.329E-21	1.37431578	0.76	0.48	1.264E-16	Mcf2l	2.7149E-09	-1.20957698	0.242	0.456	6.4394E-05
Zbp1	7.8796E-21	2.90131428	0.362	0.054	1.869E-16	Acaa1b	2.9347E-09	-2.44114551	0.058	0.209	6.9607E-05
Sh3bgrl3	7.904E-21	2.04290143	0.554	0.223	1.8748E-16	Ppm1e	3.9339E-09	-1.18842203	0.242	0.439	9.3308E-05
Casp4	8.8799E-21	2.89571585	0.398	0.081	2.1062E-16	Hoxb4	4.3418E-09	-1.57167257	0.125	0.304	0.00010298
Pkm	1.1145E-20	1.39577313	0.688	0.368	2.6435E-16	Peg3	7.2339E-09	-1.7905621	0.058	0.206	0.00017158
S100a6	2.1898E-20	1.20934952	0.735	0.402	5.194E-16	Colgalt2	8.2318E-09	-1.69071581	0.131	0.307	0.00019525
Flnb	2.1919E-20	1.23376408	0.85	0.618	5.199E-16	Lysmd4	1.1433E-08	-1.26413803	0.267	0.463	0.00027117
Dtx3l	2.4747E-20	2.18643414	0.437	0.101							

Ctss	2.2433E-18	4.66408921	0.251	0.01	5.3209E-14	Itga9	1.1695E-07	-1.00832441	0.354	0.527	0.00277387
Il18bp	2.3083E-18	3.55612191	0.284	0.027	5.475E-14	Sema5b	1.5215E-07	-3.13992953	0.017	0.115	0.00360878
Tgm2	2.4728E-18	1.36464124	0.627	0.297	5.8652E-14	1700085D07Ril	1.7478E-07	-1.71565624	0.075	0.216	0.00414561
Bst2	2.9911E-18	1.02345347	0.713	0.361	7.0946E-14	Spp2	2.106E-07	-3.28216913	0.011	0.101	0.00499522
Psemb10	3.1585E-18	1.69676511	0.526	0.199	7.4917E-14	Ncald	2.5735E-07	-1.80209369	0.111	0.257	0.006104
LitaF	3.51E-18	1.60909633	0.521	0.196	8.3254E-14	Cyp4b1	2.9023E-07	-1.51861176	0.184	0.341	0.00688387
Rpl7	3.8734E-18	1.1074769	0.783	0.503	9.1872E-14	Gba2	3.0052E-07	-2.48374862	0.039	0.152	0.00712806
Tubb5	4.2032E-18	1.50423992	0.657	0.355	9.9697E-14	4930549C15Ril	3.0176E-07	-2.29176023	0.045	0.162	0.00715736
Ctsc	4.4329E-18	5.74749898	0.245	0.01	1.0514E-13	Ccm2l	3.2299E-07	-1.10281436	0.309	0.466	0.00766112
Olfr56	4.7894E-18	1.62994447	0.557	0.23	1.136E-13	Angptl7	4.3628E-07	-2.69086576	0.014	0.105	0.01034821
AA467197	6.3099E-18	3.1390997	0.298	0.037	1.4966E-13	Igfbp4	6.0091E-07	-1.21830766	0.156	0.318	0.01425292
F830016B08R	7.3496E-18	2.45278433	0.37	0.084	1.7433E-13	Mapt	6.6531E-07	-1.35543398	0.178	0.331	0.0157806
Rpl14	9.1957E-18	1.07319991	0.811	0.561	2.1811E-13	Igfbp3	6.8991E-07	-1.50754736	0.306	0.463	0.01636404
Spop	1.3026E-17	1.29852747	0.724	0.436	3.0896E-13	Egln3	8.0189E-07	-1.28048862	0.164	0.321	0.01901992
C4b	1.3231E-17	3.31195643	0.281	0.03	3.1382E-13	Ephx1	9.0924E-07	-1.50344772	0.092	0.226	0.02156635
Plec	1.7356E-17	1.47008638	0.635	0.355	4.1166E-13	AU021092	1.1311E-06	-1.02393017	0.29	0.453	0.02682972
Nampt	1.821E-17	1.83240871	0.499	0.193	4.3192E-13	Col27a1	1.2046E-06	-2.98271988	0.022	0.115	0.02857165
Gm4841	2.0093E-17	3.4776753	0.284	0.034	4.7658E-13	Trpc3	1.2718E-06	-1.39562606	0.145	0.291	0.03016552
Fcer1g	2.5148E-17	4.53679362	0.251	0.017	5.9649E-13	Tmem26	1.7679E-06	-1.69325179	0.064	0.182	0.041932
Lgals1	4.2853E-17	2.28062527	0.384	0.098	1.0164E-12	Ccdc85a	2.0279E-06	-1.0716787	0.306	0.47	0.04809999
Gm14005	9.9159E-17	2.16833382	0.401	0.115	2.352E-12	Fam196a	2.0856E-06	-1.14960532	0.164	0.318	0.04946859
Pfn1	1.0117E-16	1.26442514	0.719	0.48	2.3998E-12						
Ptpcr	1.012E-16	6.22819724	0.223	0.007	2.4004E-12						
Plac8	1.0847E-16	1.89462299	0.474	0.176	2.5727E-12						
Cstb	1.7733E-16	1.79470986	0.426	0.132	4.2061E-12						
Myh9	2.1765E-16	1.10569309	0.766	0.53	5.1625E-12						
H2-DMb2	2.4369E-16	5.29588771	0.212	0.003	5.7801E-12						
Tpm4	3.2245E-16	1.64575971	0.515	0.23	7.6481E-12						
Rpl26	3.6612E-16	1.14136061	0.682	0.402	8.684E-12						
C1qa	5.0711E-16	4.7806441	0.228	0.014	1.2028E-11						
Adams56	7.682E-16	1.17714432	0.713	0.449	1.8221E-11						
Itga1	8.4898E-16	1.29750979	0.699	0.456	2.0137E-11						
Actr3	1.7549E-15	1.32623255	0.632	0.358	4.1624E-11						
Ch25h	2.6976E-15	3.92705986	0.24	0.024	6.3985E-11						
Klf6	2.9592E-15	1.74827552	0.51	0.226	7.019E-11						
Efh2d	2.9865E-15	2.34974679	0.309	0.061	7.0838E-11						
Rpl17	3.0842E-15	1.01911374	0.738	0.463	7.3154E-11						
Rack1	4.5462E-15	1.0773203	0.708	0.459	1.0783E-10						
Snx10	7.2091E-15	2.85063037	0.284	0.051	1.7099E-10						
H2-Q6	1.1398E-14	2.69640167	0.295	0.061	2.7034E-10						
Tyrobp	1.3992E-14	5.63800188	0.189	0.003	3.3187E-10						
Rpl11	1.9729E-14	1.09789269	0.682	0.416	4.6796E-10						
Cdkn1a	2.5214E-14	3.20463919	0.237	0.027	5.9804E-10						
Upp1	2.8656E-14	1.6968109	0.462	0.186	6.7969E-10						
Psme1	4.4304E-14	1.31633728	0.535	0.26	1.0508E-09						
H2afz	6.4581E-14	1.42227009	0.518	0.236	1.5318E-09						
Ifi202b	7.2342E-14	3.03665099	0.262	0.047	1.7159E-09						
Gm9844	7.7986E-14	2.36932362	0.304	0.071	1.8497E-09						
Rps11	8.7592E-14	1.02930925	0.713	0.463	2.0776E-09						
Eps11	1.0881E-13	2.42695648	0.259	0.044	2.581E-09						
Xdh	1.1033E-13	1.39578492	0.579	0.304	2.6169E-09						
Pmepa1	1.4226E-13	1.62303509	0.479	0.223	3.3743E-09						
Serpinb9	2.0345E-13	1.94230989	0.365	0.115	4.8256E-09						
Patl2	2.1654E-13	2.01194372	0.337	0.095	5.1361E-09						
Ttc39b	2.3259E-13	1.49410305	0.493	0.22	5.5168E-09						
Trp53i11	2.6454E-13	1.84143374	0.407	0.152	6.2745E-09						
Dock2	3.9099E-13	5.61917842	0.178	0.007	9.2738E-09						
Wfdc2	4.319E-13	1.01423427	0.627	0.351	1.0244E-08						
Cyba	4.919E-13	1.03262615	0.657	0.399	1.1667E-08						
Rnf19b	7.1748E-13	1.66483983	0.421	0.169	1.7018E-08						
Tecpr2	1.0169E-12	1.10365619	0.641	0.378	2.412E-08						
Pla2g4a	1.2332E-12	1.77606139	0.345	0.108	2.9249E-08						
Vwa1	1.2539E-12	2.02529773	0.265	0.054	2.9742E-08						
Batf2	1.5291E-12	2.3653862	0.273	0.061	3.6268E-08						
Aif1	2.4175E-12	4.1354723	0.17	0.007	5.734E-08						
Laptm5	2.8243E-12	4.28506459	0.175	0.01	6.6989E-08						
H2-M3	2.9646E-12	2.04223914	0.284	0.068	7.0318E-08						
Hbb-bs	3.1582E-12	5.99932508	0.167	0.007	7.4909E-08						
Lgals3	3.6119E-12	2.45062271	0.281	0.071	8.567E-08						
C1qc	4.2369E-12	4.04617241	0.181	0.014	1.0049E-07						
Actn1	5.9471E-12	2.27908982	0.318	0.101	1.4106E-07						
Pycard	8.3766E-12	3.54372228	0.184	0.017	1.9868E-07						
Eif4a1	8.5224E-12	1.22466312	0.524	0.27	2.0214E-07						
Lgals3bp	1.0882E-11	1.51350235	0.387	0.152	2.5811E-07						
Rac2	1.4362E-11	5.75729512	0.15	0.003	3.4065E-07						
Emp1	1.5148E-11	1.3970404	0.546	0.314	3.593E-07						
Stat2	1.6344E-11	1.01900546	0.588	0.338	3.8767E-07						
Dock10	1.7237E-11	3.6991908	0.192	0.024	4.0884E-07						
Tgfb1	2.5894E-11	7.09302811	0.139	0	6.1417E-07						
Mir142hg	2.6082E-11	5.49290409	0.148	0.003	6.1864E-07						
Itga4	2.8923E-11	5.45540882	0.162	0.01	6.8602E-07						
Plscr3	3.1275E-11	1.82304089	0.309	0.095	7.4181E-07						
Hspa5	4.4932E-11	1.05157772	0.655	0.443	1.0657E-06						
Ifi204	8.038E-11	1.67821686	0.32	0.108	1.9065E-06						
Pigr	8.4043E-11	1.68112701	0.337	0.122	1.9934E-06						
Apln	8.8339E-11	2.68170097	0.214	0.041	2.0953E-06						
F2r	1.0872E-10	1.25412285	0.487	0.243	2.5788E-06						
Pabpc1	1.128E-10	1.06433445	0.526	0.28	2.6754E-06						
Parp11	1.1359E-10	1.38905288	0.401	0.169	2.6943E-06						
Capzb	1.3838E-10	1.08025324	0.493	0.25	3.2822E-06						
Tnfaip3	1.4102E-10	3.55534018	0.167	0.017	3.345E-06						
Ctps	1.4127E-10	2.35401675	0.245	0.061	3.3508E-06						
Gm12185	1.7168E-10	1.20603337	0.418	0.182	4.072E-06						
Nuak2	1.8379E-10	1.85497545	0.32	0.115	4.3594E-06						
Ms4a6c	1.8801E-10	4.97354329	0.136	0.003	4.4594E-06						
Cxcl16	2.1232E-10	2.04317157	0.256	0.068	5.0361E-06						
Tagln2	2.28E-10	1.33834473	0.44	0.213	5.408E-06						
Irf7	2.6989E-10	1.32435668	0.37	0.149	6.4014E-06						
Rbl1	2.993E-10	1.61444816	0.306	0.101	7.099E-06						

Itga6	3.0567E-10	1.15388809	0.557	0.324	7.2502E-06
Psmal1	3.33E-10	1.26818332	0.407	0.176	7.8984E-06
Pml	3.7583E-10	1.21768716	0.46	0.23	8.9143E-06
Ccl2	4.5206E-10	6.2269347	0.131	0.003	1.0722E-05
C1s1	4.929E-10	3.69528158	0.153	0.014	1.1691E-05
S100a4	5.1563E-10	2.14698273	0.265	0.078	1.223E-05
Arrdc4	6.1918E-10	1.88620534	0.267	0.081	1.4686E-05
Col1a1	6.5247E-10	5.03561436	0.15	0.014	1.5476E-05
Rps6	8.5276E-10	1.09469246	0.51	0.291	2.0227E-05
Rps18	1.0195E-09	2.47558777	0.189	0.034	2.4181E-05
Gsap	1.149E-09	2.72526555	0.203	0.044	2.7254E-05
Sbno2	1.1677E-09	1.34173968	0.415	0.196	2.7696E-05
Traf1	1.2009E-09	1.50994614	0.351	0.142	2.8484E-05
Havcr1	1.4679E-09	2.60415508	0.192	0.037	3.4817E-05
Fscn1	1.5905E-09	1.40938064	0.343	0.135	3.7725E-05
Ctsb	1.7116E-09	1.08592048	0.549	0.328	4.0598E-05
Trbc2	2.0231E-09	6.59125668	0.114	0	4.7986E-05
Serpina3f	2.0231E-09	6.3855805	0.114	0	4.7986E-05
Lcn2	2.0404E-09	2.81078265	0.167	0.024	4.8396E-05
Fabp5	2.5149E-09	1.25141126	0.487	0.257	5.9652E-05
Mgp	2.5766E-09	1.68624614	0.287	0.095	6.1113E-05
Spag6l	2.5975E-09	1.04262878	0.535	0.318	6.1609E-05
Mt1	2.6176E-09	1.28747798	0.443	0.233	6.2086E-05
C1ra	2.6274E-09	3.75931628	0.136	0.01	6.232E-05
Lcp1	3.246E-09	1.49937473	0.32	0.122	7.6993E-05
Apol10b	3.5731E-09	4.36892284	0.12	0.003	8.475E-05
Casp12	3.9671E-09	1.84815252	0.217	0.054	9.4095E-05
Lap3	4.0015E-09	1.48219463	0.351	0.152	9.4911E-05
Ifi207	4.0232E-09	2.3515759	0.217	0.057	9.5426E-05
Tpm3	4.6536E-09	1.03687291	0.51	0.294	0.00011038
Prss23	4.8299E-09	2.13521981	0.206	0.047	0.00011456
Unc93b1	4.9545E-09	1.21212166	0.345	0.139	0.00011751
Mcm6	5.8326E-09	2.31426802	0.181	0.034	0.00013834
Fxyd5	6.4991E-09	1.13975018	0.49	0.28	0.00015415
Socs1	7.5319E-09	2.36225319	0.184	0.037	0.00017865
Mpeg1	7.6701E-09	4.46799601	0.123	0.007	0.00018193
Ly86	7.7991E-09	4.34068595	0.123	0.007	0.00018499
Stk17b	8.1059E-09	2.3151558	0.201	0.047	0.00019226
Ptprcap	8.4261E-09	5.02010099	0.114	0.003	0.00019986
Selp1g	8.4662E-09	6.34495033	0.106	0	0.00020081
Lsp1	8.4662E-09	6.3335863	0.106	0	0.00020081
Serpine1	8.4966E-09	3.27721144	0.17	0.03	0.00020153
Tmem173	8.7151E-09	3.68290401	0.123	0.007	0.00020671
Ehd1	9.7338E-09	1.6158667	0.309	0.125	0.00023088
Birc3	9.8027E-09	1.37860176	0.382	0.193	0.00023251
Icam1	1.604E-08	1.43814787	0.384	0.189	0.00038044
Gm7030	1.6767E-08	2.38793768	0.173	0.034	0.00039769
Runx1	1.7377E-08	3.07636136	0.139	0.017	0.00041217
Anxa1	1.9443E-08	1.63509119	0.306	0.128	0.00046117
Gm26740	1.9544E-08	4.72132717	0.117	0.007	0.00046357
Cybb	2.1832E-08	4.03354604	0.131	0.014	0.00051783
Fgl2	2.5061E-08	3.47453941	0.109	0.003	0.00059443
Phf11b	2.7352E-08	2.31903373	0.17	0.034	0.00064876
Ppa1	2.7591E-08	1.95558018	0.184	0.041	0.00065444
Ywhah	3.395E-08	1.08611417	0.418	0.226	0.00080525
Vamp8	3.4598E-08	1.08897548	0.423	0.223	0.00082063
Top2a	3.4695E-08	3.32634224	0.142	0.02	0.00082293
Gli3r2	3.7688E-08	4.34741707	0.106	0.003	0.00089392
Tapbp1	3.9241E-08	1.48134013	0.262	0.091	0.00093076
Mmp14	4.6017E-08	3.04210413	0.128	0.014	0.00109148
Aida	4.6568E-08	1.25099166	0.384	0.199	0.00110454
Limd2	5.1495E-08	2.54930737	0.159	0.03	0.00122141
Diaph3	5.1782E-08	2.8386376	0.153	0.027	0.00122822
Capza2	5.2297E-08	1.07585065	0.501	0.311	0.00124043
Lst1	5.3808E-08	2.96641147	0.139	0.02	0.00127627
Ms4a6b	5.6949E-08	5.02355535	0.103	0.003	0.00135077
Hba-a1	5.8605E-08	5.1016344	0.103	0.003	0.00139005
Ikzf1	6.0885E-08	3.15469742	0.162	0.034	0.00144414
Jund	6.5713E-08	1.06457383	0.435	0.24	0.00155864
Jpt1	6.6955E-08	1.67600895	0.248	0.088	0.00158812
Col1a2	7.283E-08	3.11872315	0.162	0.034	0.00172744
Il6ra	7.5206E-08	3.46177816	0.117	0.01	0.00178382
Sema7a	9.0118E-08	1.36557411	0.345	0.169	0.00213752
Gda	9.6521E-08	1.37942948	0.281	0.108	0.00228939
Sdc4	9.9228E-08	1.24382939	0.326	0.152	0.0023536
Cnn2	1.0512E-07	1.08576579	0.315	0.135	0.00249336
Lcp2	1.0566E-07	4.04709116	0.114	0.01	0.00250615
Gm12216	1.1736E-07	1.03726304	0.379	0.186	0.00278359
Relb	1.3152E-07	1.25754647	0.279	0.108	0.00311948
Cd53	1.3499E-07	4.04188877	0.106	0.007	0.00320189
Junb	1.4315E-07	1.55718087	0.281	0.118	0.00339541
Enc1	1.4784E-07	2.38752978	0.142	0.024	0.00350654
Nfkbie	1.5998E-07	3.29828158	0.12	0.014	0.00379465
Ranbp1	1.7938E-07	1.52304402	0.279	0.115	0.00425466
Ccr2	1.9996E-07	4.72033016	0.103	0.007	0.00474274
Erap1	2.1907E-07	1.05569023	0.407	0.216	0.00519607
Bcl3	2.2097E-07	2.37213893	0.156	0.034	0.0052411
Cebpb	2.2146E-07	1.8589983	0.212	0.068	0.00525286
Ube2l6	2.6048E-07	1.618845	0.212	0.068	0.00617831
Kars	2.6385E-07	1.41367009	0.231	0.078	0.00625819
Eif1a	2.6936E-07	1.67709096	0.228	0.081	0.00638898
Adgrg1	2.8403E-07	1.06829309	0.393	0.209	0.00673699
Emilin1	3.0511E-07	1.31534448	0.267	0.108	0.00723702
Alcam	3.1533E-07	1.86308027	0.214	0.071	0.00747937
Cyr61	3.2014E-07	2.55082971	0.181	0.051	0.00759346
Arhgap15	3.2414E-07	3.36892224	0.195	0.064	0.00768818
Zyx	3.2796E-07	1.43715748	0.245	0.091	0.007779
Arhgdib	3.2955E-07	2.05469129	0.181	0.051	0.00781651
Pgk1	3.3125E-07	1.16023837	0.359	0.182	0.00785682

Dcdc2a	3.4827E-07	2.76737176	0.109	0.01	0.00826063
Itgb7	3.4827E-07	3.08768282	0.109	0.01	0.00826063
Skap1	4.5626E-07	3.07627921	0.12	0.017	0.01082205
Gm9493	4.6139E-07	1.10830659	0.357	0.182	0.0109436
Tmem51	4.7103E-07	1.95990109	0.17	0.044	0.01117247
Ltb	4.7561E-07	3.79121539	0.106	0.01	0.01128107
Sf3b5	5.0124E-07	1.30980264	0.273	0.111	0.01188891
Tnfrsf12a	5.1666E-07	1.88462639	0.153	0.034	0.01225462
Col3a1	5.1834E-07	3.08631122	0.156	0.037	0.01229448
Spsb1	5.6908E-07	1.79992142	0.189	0.057	0.01349798
Ulbp1	6.1053E-07	2.24280749	0.15	0.034	0.01448122
Abrac1	6.2732E-07	1.47143007	0.256	0.105	0.01487937
Rpl12	6.2892E-07	1.37572657	0.273	0.115	0.01491724
B4galt5	6.4727E-07	1.18585764	0.354	0.186	0.01535253
Marcks1	6.4839E-07	1.47723364	0.256	0.105	0.01537913
Tpm3-rs7	6.8826E-07	1.0288479	0.476	0.307	0.01632492
Dexi	7.0232E-07	1.48594563	0.206	0.068	0.01665835
Apbb1ip	7.8914E-07	3.26645763	0.103	0.01	0.01871761
Rmi2	7.8914E-07	3.58393458	0.103	0.01	0.01871761
Parp10	8.0122E-07	1.23388237	0.326	0.159	0.01900406
Dnmt1	9.1898E-07	1.8036512	0.209	0.074	0.0217974
Calu	9.2118E-07	1.06447778	0.401	0.233	0.02184949
Capg	9.9409E-07	1.86133838	0.189	0.061	0.02357892
Ak2	1.0768E-06	1.44100973	0.298	0.145	0.02554118
Myo1f	1.1183E-06	3.41394581	0.12	0.02	0.02652552
Ltc4s	1.1447E-06	2.12507634	0.178	0.054	0.02715043
Tfdp1	1.1873E-06	2.17754579	0.156	0.041	0.02816069
Bcar3	1.1994E-06	1.65899424	0.281	0.132	0.02844902
Pfkfb3	1.2313E-06	1.42944133	0.301	0.145	0.02920594
N4bp3	1.2632E-06	1.46551322	0.223	0.081	0.02996216
Cd44	1.3701E-06	3.11975133	0.125	0.024	0.03249715
Plau	1.4712E-06	1.08917195	0.315	0.152	0.03489434
Atf4	1.5566E-06	1.2225576	0.357	0.196	0.03692091
Mb21d2	1.6609E-06	1.29241269	0.301	0.149	0.03939397
Ripk2	1.6941E-06	1.42420225	0.259	0.111	0.04018305
Snrpd1	1.78E-06	1.04155568	0.298	0.142	0.04222088
Sp140	2.0821E-06	1.65625563	0.214	0.081	0.04938434

Table S2: Results from differential gene expression TCMR vs. Control

Interstitial cells

*This Fold Change was calculated between [C57BL/6 to BALB/c] and [C57BL/6 to C57BL/6]

Gene upr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj	Gene downr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj
H2-K1	2.1385E-14	4.54459202	0.997	0.381	5.0724E-10	Rdh16f2	3.7503E-43	-6.58921799	0.008	0.619	8.8952E-39
Ilgp1	2.0376E-13	5.32445235	0.976	0.143	4.833E-09	Slc22a8	4.3631E-36	-5.66251753	0.022	0.667	1.0349E-31
H2-D1	2.5861E-13	3.05740378	0.997	0.667	6.1339E-09	Rdh16	3.7484E-30	-6.57040529	0.005	0.429	8.8909E-26
B2m	5.0457E-13	2.92330694	0.995	0.667	1.1968E-08	Nat8f1	6.1293E-30	-5.37553322	0.035	0.667	1.4538E-25
Ly6e	8.8251E-12	3.73762314	0.935	0.286	2.0932E-07	Gm26870	1.8533E-29	-6.09813547	0.022	0.571	4.3959E-25
Stat1	1.3855E-11	3.39635725	0.951	0.333	3.2862E-07	Slc13a3	7.8405E-25	-4.6635897	0.03	0.571	1.8597E-20
Ly6a	1.6797E-11	3.40298612	0.949	0.429	3.9842E-07	Miox	1.1812E-23	-4.27617305	0.127	0.905	2.8018E-19
Gbp2	2.2578E-11	7.23054218	0.865	0	5.3553E-07	Acsm2	8.6903E-23	-6.37005272	0.097	0.81	2.0613E-18
Cd74	2.5108E-11	3.10549587	0.981	0.333	5.9554E-07	Ugt3a1	1.3121E-22	-6.34721069	0.005	0.333	3.1122E-18
H2-Q7	2.5886E-11	6.81026593	0.862	0	6.14E-07	Dnase1	4.1377E-21	-7.60856036	0	0.238	9.8142E-17
Irgm1	1.8775E-10	5.05758258	0.841	0.095	4.4533E-06	Slc34a1	9.2633E-21	-4.35913123	0.189	0.952	2.1972E-16
Spp1	2.1438E-10	2.05653049	0.997	0.81	5.0848E-06	Lrp2	8.354E-19	-3.72241242	0.146	0.905	1.9815E-14
Vim	6.7839E-10	4.41042748	0.873	0.238	1.6091E-05	Ces1d	2.7614E-18	-5.71865623	0.011	0.333	6.5498E-14
Dcl1k	1.5142E-09	4.09957672	0.846	0.238	3.5914E-05	Keg1	1.6528E-17	-3.17601399	0.189	0.905	3.9202E-13
Ubd	2.5185E-09	6.32227942	0.765	0	5.9737E-05	Tmem27	2.0551E-17	-3.63275059	0.197	0.905	4.8745E-13
Col3a1	3.2452E-09	3.21391032	0.924	0.524	7.6972E-05	Ugt3a2	4.9378E-17	-4.40039141	0.027	0.429	1.1712E-12
Cxcl10	6.3718E-09	7.93274495	0.743	0	0.00015113	Hcar1	1.8793E-16	-5.18077884	0.008	0.286	4.4574E-12
Gbp7	7.2323E-09	3.56104645	0.805	0.19	0.00017154	Cpm	5.0648E-16	-3.81106916	0.189	0.857	1.2013E-11
Col1a2	7.3925E-09	2.84690339	0.951	0.667	0.00017534	Igfbp3	8.3319E-16	-4.89135177	0.141	0.762	1.9762E-11
Pdzrn3	9.2961E-09	3.02283762	0.895	0.381	0.00022049	Akl4	9.9334E-16	-4.27512411	0.041	0.476	2.3561E-11
Psmb8	9.8364E-09	3.62790455	0.808	0.143	0.00023331	Slc22a12	1.5585E-15	-3.76345973	0.065	0.571	3.6965E-11
Fstl1	2.3169E-08	2.26738633	0.93	0.571	0.00054955	Ces1f	7.4041E-15	-5.15171063	0.011	0.286	1.7562E-10
Col5a2	2.6422E-08	3.21817264	0.824	0.238	0.00062671	Akr7a5	9.2837E-14	-3.56877735	0.062	0.524	2.202E-09
Col1a1	5.0233E-08	3.69434246	0.876	0.429	0.00119147	mt-Nd3	9.3784E-14	-4.27328843	0.065	0.524	2.2245E-09
Ifitm3	5.6304E-08	1.99712517	0.962	0.619	0.00133548	Pck1	9.5479E-14	-4.33161619	0.078	0.571	2.2647E-09
Cxcl9	6.8723E-08	3.76395203	0.754	0.048	0.00163004	mt-Nd4	1.0239E-13	-2.55162015	0.765	1	2.4286E-09
H2-Aa	6.9521E-08	2.37260738	0.843	0.238	0.00164898	Fam107a	1.1283E-13	-5.41791064	0.003	0.19	2.6762E-09
Plac8	1.4819E-07	3.57762707	0.735	0.19	0.00351496	mt-Nd2	2.5013E-13	-2.71575292	0.695	1	5.9328E-09
Samhd1	1.648E-07	3.6373377	0.743	0.143	0.00390894	Cyp4a14	3.1255E-13	-5.79868614	0.008	0.238	7.4133E-09
Acta2	2.9486E-07	3.02449132	0.746	0.095	0.00699379	Dcxr	3.2718E-13	-3.90811943	0.03	0.381	7.7604E-09
Lyz2	3.4588E-07	6.25016603	0.641	0	0.00820401	Akr1d1	3.2799E-13	-7.29566996	0	0.143	7.7797E-09
Lpp	4.0873E-07	1.32442832	0.951	0.857	0.00969468	Zmat4	3.2799E-13	-7.76562389	0	0.143	7.7797E-09
AU020206	4.1707E-07	5.13415983	0.659	0.048	0.00989243	AC124490.1	4.4765E-13	-5.39982161	0.008	0.238	1.0618E-08
Nlrc5	4.1916E-07	5.51653269	0.635	0	0.00994211	Sord	4.9092E-13	-3.5543751	0.146	0.714	1.1644E-08
Acadl	4.7948E-07	2.117494	0.857	0.429	0.01137279	Car4	5.0434E-13	-5.09580493	0.008	0.238	1.1963E-08
Lgals1	5.7836E-07	2.33772482	0.905	0.619	0.01371813	Hadh	5.5104E-13	-3.02340216	0.119	0.667	1.307E-08
AW112010	6.6235E-07	3.83707377	0.681	0.095	0.01571018	Abca8a	6.3675E-13	-3.35956866	0.084	0.571	1.5103E-08
H2-T23	8.6274E-07	2.70997026	0.754	0.238	0.02046325	Kap	6.8343E-13	-3.27715805	0.908	1	1.621E-08
Cdh11	8.6839E-07	1.86076376	0.919	0.762	0.02059722	Pah	1.4914E-12	-3.95884062	0.059	0.476	3.5374E-08
Serpina3g	8.8633E-07	3.63094893	0.7	0.143	0.02102295	Gpx3	1.986E-12	-2.39256669	0.984	1	4.7105E-08
Irf1	9.0076E-07	2.73007096	0.754	0.286	0.02136501	Ttc36	2.1641E-12	-2.9077976	0.241	0.857	5.133E-08
Gbp8	1.0679E-06	5.48126687	0.608	0	0.02532977	Akr1c21	2.2261E-12	-3.63901458	0.119	0.619	5.2802E-08
Vmp1	1.1901E-06	1.58669935	0.905	0.619	0.02822692	Egr1	2.8742E-12	-2.60601194	0.149	0.714	6.8173E-08
Irgm2	1.3287E-06	2.93378272	0.705	0.19	0.03151582	mt-Cytb	2.9019E-12	-2.84350706	0.551	1	6.8829E-08
S100a10	1.4854E-06	2.49878143	0.751	0.19	0.03523303	Rida	4.2352E-12	-2.78256552	0.254	0.857	1.0046E-07
C3	1.9437E-06	5.30515398	0.619	0.048	0.04610161	Spp2	9.12E-12	-5.61547581	0.011	0.238	2.1632E-07
Ncam1	1.9536E-06	2.73287282	0.719	0.143	0.0463381	Acaa1b	9.6713E-12	-4.80035574	0.027	0.333	2.2939E-07
						Slc22a6	1.3446E-11	-3.48469161	0.084	0.524	3.1891E-07
						Aatk	1.7423E-11	-5.3733202	0.005	0.19	4.1327E-07
						F13b	1.9801E-11	-5.04741928	0.005	0.19	4.6965E-07
						Mep1a	2.2179E-11	-3.34146834	0.097	0.571	5.2606E-07
						Fxyd2	2.6983E-11	-1.94711355	0.849	1	6.4002E-07
						Aldob	2.8473E-11	-2.83242995	0.416	0.952	6.7536E-07
						Gdf10	3.4209E-11	-4.0472027	0.019	0.286	8.1141E-07
						Gm30524	3.7299E-11	-3.89084672	0.019	0.286	8.847E-07
						Gm42418	7.5423E-11	-1.45428002	1	1	1.789E-06
						mt-Atp6	9.5587E-11	-1.78256902	0.886	1	2.2672E-06
						Ass1	1.106E-10	-2.96022939	0.259	0.81	2.6234E-06
						mt-Co3	1.1499E-10	-2.19984069	0.814	1	2.7273E-06
						Ttr	1.9915E-10	-5.04894413	0.014	0.238	4.7237E-06
						Fbp1	2.5238E-10	-3.15005263	0.089	0.524	5.9861E-06
						Igfbp4	3.1694E-10	-2.67967964	0.27	0.81	7.5175E-06
						Cyp4a10	3.2471E-10	-3.52865621	0.022	0.286	7.7019E-06
						Smad9	5.2208E-10	-5.79622147	0.003	0.143	1.2383E-05
						D630029K05Ri	5.2208E-10	-5.35644629	0.003	0.143	1.2383E-05
						Gm26620	5.613E-10	-5.18769623	0.003	0.143	1.3313E-05
						Nat8f6	5.613E-10	-6.18285393	0.003	0.143	1.3313E-05
						Fitm1	5.613E-10	-5.66902512	0.003	0.143	1.3313E-05
						Colec11	5.613E-10	-5.35552259	0.003	0.143	1.3313E-05
						Aqp5	5.613E-10	-5.66358831	0.003	0.143	1.3313E-05
						Atf7ip2	5.7362E-10	-5.89021279	0.024	0.286	1.3606E-05
						Spink1	5.846E-10	-2.53542021	0.238	0.762	1.3866E-05
						F5	6.0338E-10	-5.34312697	0.003	0.143	1.4312E-05
						Col26a1	6.0338E-10	-6.72329773	0.003	0.143	1.4312E-05
						Cyp2e1	6.0338E-10	-5.07249905	0.003	0.143	1.4312E-05
						Gm47708	6.0338E-10	-5.28514822	0.003	0.143	1.4312E-05
						Slc39a5	6.4855E-10	-4.66153829	0.003	0.143	1.5383E-05
						mt-Nd4l	7.457E-10	-2.45205356	0.268	0.81	1.7687E-05
						Kl	8.0807E-10	-2.18191134	0.084	0.524	1.9167E-05
						Slc6a20b	9.6599E-10	-3.72450025	0.049	0.381	2.2912E-05
						Scn4b	1.0524E-09	-4.25652888	0.008	0.19	2.4963E-05
						Flywch2	1.4532E-09	-3.47381701	0.035	0.333	3.447E-05
						Emid1	1.756E-09	-2.98633213	0.062	0.429	4.1651E-05
						Ces2c	1.7624E-09	-4.29442417	0.016	0.238	4.1802E-05
						Fmo2	2.1118E-09	-2.18307023	0.127	0.571	5.009E-05
						Pdk2	2.1474E-09	-3.23655538	0.049	0.381	5.0935E-05
						Atp1a2	2.1817E-09	-4.29806571	0.016	0.238	5.1747E-05
						Tmem174	2.8686E-09	-3.3148879	0.084	0.476	6.8041E-05
						4931406C07Ri	3.0432E-09	-2.57782615	0.138	0.619	7.2181E-05
						Daam2	3.7198E-09	-2.38117105	0.376	0.857	8.823E-05
						Slc22a18	3.9711E-09	-3.30501539	0.065	0.429	9.4189E-05
						Atp1b1	5.0044E-09	-1.86242007	0.559	0.952	0.0001187
						Adam22	5.079E-09	-3.19364599	0.105	0.524	0.00012047
						Cat	5.9577E-09	-2.28088409	0.246	0.762	0.00014131
						Slc40a1	6.5586E-09	-3.39879237	0.197	0.667	0.00015556

Al314278	6.8743E-09	-3.49402415	0.051	0.381	0.00016305
Aaddt	7.914E-09	-3.21845445	0.054	0.381	0.00018771
Sh3d21	8.1253E-09	-3.59284682	0.054	0.381	0.00019272
Dbp	1.171E-08	-2.14692929	0.119	0.571	0.00027774
Slc22a1	1.1829E-08	-3.91656969	0.043	0.333	0.00028056
Acsc1	1.2678E-08	-3.08149264	0.054	0.381	0.0003007
Gpd1	1.3221E-08	-4.17888897	0.019	0.238	0.00031359
Egf	1.3855E-08	-5.76389147	0.057	0.381	0.00032864
Eci3	1.4278E-08	-4.43050755	0.011	0.19	0.00033865
Slc6a19	1.4643E-08	-2.79042159	0.07	0.429	0.00034732
Upb1	1.6159E-08	-3.06106537	0.041	0.333	0.00038328
Mn1	1.8935E-08	-3.81778897	0.011	0.19	0.00044912
Gatm	2.1685E-08	-2.65142348	0.203	0.667	0.00051435
mt-Co2	2.3564E-08	-2.01964922	0.784	0.952	0.00055891
Rasgrp2	2.4622E-08	-2.67258898	0.162	0.619	0.00058401
Shmt2	2.8479E-08	-3.70760004	0.059	0.381	0.0006755
Chchd10	3.5771E-08	-1.89573602	0.384	0.857	0.00084846
Nox4	3.6156E-08	-2.95508872	0.157	0.619	0.00085758
Cldn11	4.4545E-08	-7.22438038	0.005	0.143	0.00105657
Epas1	4.5676E-08	-2.69961599	0.324	0.762	0.0010834
Gas1	4.7885E-08	-2.70564009	0.095	0.476	0.00113579
Slc13a2	4.997E-08	-5.0398048	0.005	0.143	0.00118525
Aldh8a1	5.1437E-08	-3.52410963	0.046	0.333	0.00122003
Gm3435	5.2918E-08	-4.50971354	0.005	0.143	0.00125516
Acadm	7.031E-08	-2.44835451	0.232	0.714	0.00166769
Adra1a	7.2764E-08	-3.60232323	0.022	0.238	0.00172589
Slc2a2	8.8507E-08	-3.37236335	0.032	0.286	0.0020993
Cyp4b1	9.4637E-08	-2.28278561	0.135	0.571	0.00224468
Smim24	1.2217E-07	-3.44064168	0.035	0.286	0.00289774
Tcn2	1.2739E-07	-2.45475334	0.314	0.762	0.00302157
Arvcf	1.324E-07	-2.31671748	0.151	0.571	0.00314032
Adamts5	1.3478E-07	-2.61715869	0.327	0.762	0.00319679
mt-Nd5	1.3824E-07	-2.30307953	0.327	0.762	0.00327898
Pecr	1.506E-07	-2.96250831	0.084	0.429	0.00357219
Fbln5	1.683E-07	-2.8714838	0.478	0.857	0.00399184
Lhx1	1.8754E-07	-3.50509577	0.014	0.19	0.0044483
Cmss1	1.9765E-07	-1.42267986	0.962	1	0.00468813
Maf	2.4027E-07	-2.31916666	0.419	0.857	0.00569894
Kcnj15	2.5216E-07	-2.49270411	0.154	0.571	0.00598093
Fmo1	2.9808E-07	-2.35519653	0.081	0.429	0.00707028
Slc5a12	3.0944E-07	-4.5835439	0.051	0.333	0.00733957
Car2	3.1088E-07	-2.46200791	0.186	0.619	0.00737372
Hgd	3.2487E-07	-3.11352426	0.051	0.333	0.0077057
Hpgd	3.5559E-07	-1.81828653	0.122	0.524	0.00843426
Chpt1	3.805E-07	-1.87358118	0.478	0.857	0.00902505
Slc5a2	4.3907E-07	-2.92293172	0.038	0.286	0.01041425
mt-Co1	5.0151E-07	-1.95264875	0.868	1	0.01189539
Ehhadh	5.0783E-07	-2.95312808	0.092	0.429	0.01204516
Prelp	5.3646E-07	-2.40834	0.197	0.619	0.01272425
B4galnt3	6.264E-07	-4.46525152	0.016	0.19	0.01485756
Ndufv3	6.4101E-07	-1.82406637	0.281	0.762	0.01520406
Cela1	6.5857E-07	-2.84585696	0.038	0.286	0.01562065
Lrrn1	7.2755E-07	-4.10378812	0.016	0.19	0.01725676
Stxbp5l	7.552E-07	-4.38227963	0.016	0.19	0.01791253
Dkk2	7.8355E-07	-2.9910127	0.192	0.619	0.01858507
Exoc3l2	8.1356E-07	-3.68832367	0.016	0.19	0.01929682
Ecm1	8.3497E-07	-1.65877325	0.468	0.81	0.01980472
Lypla1	9.0114E-07	-3.42778412	0.027	0.238	0.02137425
Itga1	9.0505E-07	-1.40274713	0.743	1	0.02146689
Clec2h	9.6357E-07	-4.56270588	0.008	0.143	0.02285502
D630033O11R	9.6357E-07	-5.01316607	0.008	0.143	0.02285502
Gm26691	1.0103E-06	-5.06194787	0.008	0.143	0.02396438
Pgam2	1.0103E-06	-4.63857853	0.008	0.143	0.02396438
Cyp2d26	1.0103E-06	-4.72359183	0.008	0.143	0.02396438
Nrp1	1.0202E-06	-1.84487735	0.681	0.952	0.02419702
mt-Nd1	1.0308E-06	-2.33860581	0.538	0.81	0.02444843
Gsta3	1.054E-06	-3.36720846	0.016	0.19	0.02500002
Aldh2	1.0809E-06	-1.8040811	0.316	0.762	0.02563892
Cox6b1	1.1912E-06	-1.23430701	0.578	0.952	0.02825385
Hlf	1.5376E-06	-3.49286144	0.076	0.381	0.03647027
Uqcr11	1.5696E-06	-1.77689032	0.343	0.762	0.03722842
Mfsd4b5	1.6199E-06	-2.4004521	0.111	0.476	0.03842152
Peg3	2.0322E-06	-1.53692315	0.178	0.619	0.04820272

Table S2: Results from differential gene expression TCMR vs. Control

Interstitial cells						*This Fold Change was calculated between [BALB/c to C57BL/6] and [BALB/c to BALB/c]					
Gene upr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj	Gene downr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj
H2-K1	8.4125E-65	4.15281246		1	0.459	Gm26870	6.8442E-70	-6.70111793	0.013	0.729	1.6234E-65
H2-D1	2.5256E-64	3.95211256		1	0.556	Abca8a	3.6709E-42	-5.12461656	0.051	0.571	8.7071E-38
B2m	2.9236E-63	3.76992778		1	0.504	Kcnd3	1.0475E-31	-2.89900099	0.339	0.789	2.4845E-27
Cd74	2.0777E-60	4.86576346	0.981	0.158	4.9282E-56	Adap2	1.1325E-30	-2.72724395	0.336	0.759	2.6862E-26
Spp1	4.0913E-60	3.48784575		1	0.594	Gm29683	9.6506E-27	-2.0869946	0.427	0.835	2.289E-22
Igfp1	3.7004E-59	5.03394577	0.971	0.211	8.777E-55	Ripor3	3.1509E-26	-2.83094576	0.179	0.624	7.4736E-22
Ly6a	1.7464E-53	4.32833453	0.939	0.226	4.1422E-49	Ldb2	6.4488E-26	-1.67229157	0.781	0.97	1.5296E-21
Stat1	4.431E-49	3.57441529	0.925	0.293	1.051E-44	Sned1	9.465E-26	-2.70825578	0.168	0.602	2.245E-21
H2-Eb1	9.7645E-48	4.54685396	0.883	0.083	2.316E-43	Emid1	2.7929E-25	-3.41699077	0.091	0.489	6.6245E-21
H2-Ab1	1.2736E-44	4.74906279	0.837	0.075	3.0208E-40	Epas1	9.6915E-25	-2.14489454	0.336	0.759	2.2987E-20
Gbp2b	2.4801E-42	6.66553899	0.776	0.03	5.8824E-38	Adap2os	1.0565E-24	-3.07486524	0.123	0.534	2.5059E-20
Tmsb4x	8.2299E-41	1.95762862	0.995	0.797	1.952E-36	Rasgrp2	1.8234E-24	-2.45303679	0.181	0.624	4.3249E-20
Ubd	1.2789E-40	9.1114072	0.741	0	3.0333E-36	Eepd1	6.2963E-24	-2.65918914	0.101	0.511	1.4934E-19
Irgm1	2.1048E-39	4.26688931	0.787	0.09	4.9925E-35	Slc40a1	1.0603E-23	-2.93852722	0.264	0.654	2.5148E-19
H2-Aa	2.5523E-38	4.28515131	0.789	0.105	6.0537E-34	Arhgap24	1.6538E-23	-1.62123551	0.859	0.94	3.9227E-19
Col1a1	3.6142E-38	3.83632969	0.888	0.459	8.5726E-34	Pde8b	4.351E-23	-1.87113415	0.44	0.827	1.032E-18
Psmb8	5.7542E-38	4.96784989	0.747	0.045	1.3649E-33	Daaam2	9.7927E-23	-1.96056082	0.309	0.737	3.3227E-18
C3	1.0543E-37	6.29899592	0.733	0.045	2.5007E-33	Igf1bp3	3.338E-22	-3.13997522	0.264	0.662	7.9174E-18
Cxcl9	5.1287E-36	10.0037303	0.685	0	1.2165E-31	Adamts5	6.2786E-22	-2.83831129	0.339	0.669	1.4892E-17
Vim	2.7018E-34	3.31500937	0.8	0.203	6.4084E-30	Prkg1	7.2608E-22	-1.3626452	0.875	0.962	1.7222E-17
Actb	9.0359E-33	1.7556482	0.989	0.872	2.1432E-28	Ano5	8.6024E-22	-2.50968651	0.24	0.639	2.0404E-17
Vmp1	1.4643E-32	1.91761593	0.92	0.556	3.4731E-28	Cpm	9.1696E-21	-2.482169466	0.285	0.647	2.1749E-16
H2-T23	2.697E-32	2.86539063	0.752	0.15	6.3969E-28	Hsd11b1	1.159E-20	-1.47213115	0.475	0.835	2.7491E-16
Col1a2	3.3701E-32	2.60981646	0.928	0.789	7.9936E-28	Gm6277	1.4613E-20	-2.97764456	0.093	0.444	3.4661E-16
AW112010	3.5157E-31	6.29954636	0.635	0.015	8.3389E-27	Egflam	2.9842E-20	-1.93692219	0.384	0.744	7.0781E-16
Tapbp	8.465E-31	2.72391193	0.787	0.256	2.0078E-26	Tgfbf3	1.0694E-19	-2.18250252	0.523	0.835	2.5364E-15
Dclk1	1.4953E-30	3.11952735	0.771	0.203	3.5466E-26	Mapt	6.4409E-19	-2.13175339	0.176	0.556	1.5277E-14
Ly6e	1.014E-29	2.78282459	0.771	0.218	2.405E-25	Tshz2	7.5517E-19	-1.19975057	0.853	0.962	1.7912E-14
Cxcl10	1.7629E-29	8.41815773	0.603	0.008	4.1814E-25	Mill2	7.6162E-19	-2.31160904	0.165	0.526	1.8065E-14
Irgm2	2.9933E-29	5.44796493	0.619	0.03	7.0988E-25	Rcan2	8.6132E-19	-2.52609737	0.171	0.549	2.043E-14
Col3a1	8.7764E-28	2.37374183	0.923	0.722	2.0817E-23	Ebf1	1.6318E-18	-1.14551129	0.851	0.947	3.8706E-14
Lgals1	2.551E-27	2.5334931	0.8	0.406	6.0508E-23	Atf7ip2	3.221E-18	-4.63081022	0.024	0.271	7.6398E-14
Cd52	5.275E-27	5.04134034	0.603	0.045	1.2512E-22	Agtr1a	6.3241E-18	-1.80962513	0.467	0.752	1.5E-13
Psmb9	2.2011E-26	4.21696684	0.611	0.06	5.2209E-22	Park2	7.5765E-18	-1.44270754	0.464	0.789	1.7971E-13
Irgm2	8.7718E-26	3.87528527	0.621	0.09	2.0806E-21	Eps8	1.7474E-17	-1.92664301	0.235	0.617	4.1447E-13
Col5a2	5.5944E-25	2.54456802	0.776	0.391	1.3269E-20	Fbln5	1.9623E-17	-1.8166944	0.611	0.789	4.6543E-13
Plezo2	1.4554E-24	3.1902811	0.653	0.135	3.4521E-20	Ctca3a1	2.5619E-17	-2.47541137	0.24	0.579	6.0767E-13
S100a11	1.8682E-24	2.01516393	0.819	0.368	4.4312E-20	Ggt5	2.737E-17	-2.47482535	0.141	0.481	6.4918E-13
Eef1a1	3.5469E-24	1.31291607	0.971	0.774	8.413E-20	Pde3a	4.0321E-17	-1.01449906	0.864	0.94	9.5637E-13
Gbp2	4.5256E-24	4.89074413	0.549	0.03	1.0734E-19	Gm14964	6.5077E-17	-2.60534518	0.101	0.414	1.5436E-12
Gbp7	5.1586E-24	2.36786911	0.731	0.256	1.2236E-19	Ccbe1	8.9747E-17	-2.02771479	0.336	0.669	2.1287E-12
Tspo	6.5905E-24	2.7284738	0.701	0.211	1.5632E-19	Abca9	1.223E-16	-2.46863908	0.123	0.444	2.9009E-12
Ccl5	6.851E-24	5.04090599	0.528	0.008	1.625E-19	Sbf2	1.6508E-16	-1.09696981	0.765	0.91	3.9156E-12
Acta2	7.5592E-24	2.46394794	0.669	0.135	1.793E-19	Fhl2	1.808E-16	-1.29316056	0.773	0.932	4.2884E-12
Tmsb10	1.2862E-23	1.98881507	0.824	0.444	3.0508E-19	Gm12394	3.4829E-16	-2.80772638	0.187	0.504	8.2611E-12
Bgn	3.2072E-23	1.70982191	0.939	0.789	7.6071E-19	Mrv1	4.0348E-16	-1.76988126	0.283	0.639	9.5701E-12
Irf1	4.1348E-23	2.96782633	0.672	0.203	9.8074E-19	Gm26883	4.6929E-16	-1.42970912	0.653	0.895	1.1131E-11
Tpt1	4.9854E-23	1.36471422	0.955	0.729	1.1825E-18	Psd3	5.0301E-16	-1.03601497	0.712	0.91	1.1931E-11
Sparc	6.6729E-23	2.13575833	0.859	0.632	1.5827E-18	Pla2r1	9.1069E-16	-1.57577374	0.408	0.737	2.1601E-11
Rplp1	1.1517E-22	1.59294921	0.891	0.496	2.7318E-18	Zbtb16	1.5373E-15	-2.80712063	0.123	0.436	3.6463E-11
Tmem176b	1.8191E-22	1.63643194	0.877	0.534	4.3148E-18	Ablim2	1.575E-15	-3.28685707	0.037	0.278	3.7357E-11
Serpina3g	5.1746E-22	7.24406831	0.488	0.008	1.2274E-17	Insr	2.2382E-15	-1.39909198	0.357	0.714	5.3088E-11
Rpl32	7.0859E-22	1.64379467	0.861	0.496	1.6807E-17	Dapk2	2.5004E-15	-2.02286522	0.403	0.684	5.9308E-11
Tmem176a	2.0378E-21	1.3710289	0.909	0.639	4.8336E-17	Ispp	2.84E-15	-1.86676234	0.341	0.662	6.7362E-11
Gm10073	2.6436E-21	1.67717064	0.864	0.481	6.2704E-17	Myk	3.6973E-15	-1.15094571	0.835	0.955	8.7697E-11
Gm4951	3.6071E-21	2.59750892	0.696	0.248	8.5557E-17	Myo1b	4.7786E-15	-1.36202016	0.6	0.865	1.1334E-10
Nlrc5	3.7421E-21	3.82470878	0.533	0.06	8.8758E-17	Gm2163	5.1796E-15	-2.16002941	0.363	0.662	1.2286E-10
Bst2	4.3295E-21	2.7084333	0.627	0.15	1.0269E-16	Itih5	5.8813E-15	-2.46869492	0.277	0.579	1.395E-10
Lyz2	4.7655E-21	4.95640187	0.515	0.045	1.1303E-16	Maf	6.7295E-15	-1.48359737	0.512	0.752	1.5962E-10
Serping1	5.6553E-21	1.53306387	0.893	0.654	1.3414E-16	Angpt1	1.5514E-14	-1.83751653	0.475	0.722	3.6798E-10
Rpl41	8.2195E-21	1.34238768	0.923	0.707	1.9496E-16	Slc24a3	1.7861E-14	-3.20072998	0.075	0.338	4.2365E-10
Fstl1	8.3205E-21	1.62760889	0.845	0.639	1.9735E-16	Gm10801	1.9925E-14	-6.80928556	0	0.15	4.726E-10
Itih3	1.4488E-20	1.41364138	0.917	0.677	3.4365E-16	Fmo2	2.518E-14	-2.44037325	0.189	0.504	5.9724E-10
Msn	1.8271E-20	2.10881132	0.725	0.323	4.3338E-16	Lamc3	2.9503E-14	-2.16800244	0.123	0.421	6.9978E-10
H2-Q4	1.9893E-20	3.57438674	0.533	0.06	4.7184E-16	Peg3	3.0134E-14	-1.63076283	0.184	0.504	7.1474E-10
Rps20	3.2928E-20	1.45929431	0.869	0.549	7.8103E-16	Gm13470	4.3267E-14	-2.55065439	0.061	0.316	1.0262E-09
Adams6	5.4778E-20	3.0703679	0.605	0.165	1.2993E-15	Lamb3	6.3917E-14	-2.19957309	0.08	0.353	1.516E-09
Plac8	5.8142E-20	2.14966966	0.645	0.18	1.3791E-15	Gm14812	7.1223E-14	-5.2330699	0.005	0.165	1.6893E-09
Tap2	2.0774E-19	2.63877622	0.597	0.143	4.9275E-15	Cacna1a	7.1391E-14	-2.36726891	0.099	0.376	1.6933E-09
Rpsa	8.3378E-19	1.45835408	0.853	0.564	1.9776E-14	Angptl2	9.7638E-14	-1.91015916	0.245	0.556	2.3159E-09
H2-T22	1.0106E-18	3.39586654	0.523	0.09	2.3971E-14	Rerg	1.9786E-13	-1.4448485	0.397	0.707	4.6929E-09
Gbp8	2.0154E-18	2.81695566	0.544	0.105	4.7803E-14	Nrp1	2.483E-13	-1.35688617	0.707	0.85	5.8894E-09
Dzrn3	2.1617E-18	1.6206383	0.832	0.504	5.1273E-14	Wdr66	2.5008E-13	-1.8005348	0.296	0.602	5.9317E-09
Rpl27-ps3	2.7654E-18	1.42821233	0.819	0.406	6.5594E-14	Slc34a1	3.3775E-13	-1.38400571	0.251	0.602	8.0111E-09
Rnf19b	4.0671E-18	3.18790083	0.536	0.113	9.6467E-14	Robo2	7.5842E-13	-1.41622419	0.736	0.842	1.7989E-08
Sh3bgrl3	4.2432E-18	3.07848217	0.544	0.12	1.0064E-13	Rarb	7.6615E-13	-1.25748001	0.477	0.752	1.8172E-08
Slc8a1	5.0283E-18	1.46754816	0.803	0.496	1.1927E-13	Itga8	7.8633E-13	-1.50953073	0.429	0.707	1.8651E-08
Rps29	9.3603E-18	1.34174922	0.896	0.617	2.2202E-13	Adam22	9.3391E-13	-2.0622986	0.243	0.534	2.2151E-08
Ltbp2	1.2421E-17	6.09670989	0.421	0.015	2.9462E-13	Ptprd	1.3246E-12	-1.0329011	0.845	0.947	3.1418E-08
Rpl9-ps6	1.536E-17	1.39873493	0.869	0.504	3.6433E-13	Maml3	1.6117E-12	-1.11734008	0.632	0.85	3.8228E-08
Rps19	1.5933E-17	1.68588513	0.781	0.421	3.7791E-13	Arvcf	2.4686E-12	-1.82634515	0		

Vcam1	1.5591E-15	2.11116044	0.613	0.211	3.698E-11	Fsd1l	1.4428E-11	-1.68858891	0.253	0.541	3.4221E-07
Cnot6	1.7377E-15	1.12629733	0.88	0.594	4.1216E-11	Gm12353	1.6023E-11	-1.96479799	0.176	0.451	3.8005E-07
Serf2	1.7671E-15	1.16417334	0.851	0.594	4.1913E-11	Prex2	2.3151E-11	-1.27169624	0.523	0.744	5.4913E-07
Pla2g16	2.2214E-15	2.95387492	0.472	0.083	5.269E-11	Pl15	2.5936E-11	-2.25887228	0.075	0.301	6.1518E-07
Ncam1	2.806E-15	1.87278871	0.645	0.248	6.6555E-11	Gm12153	2.6933E-11	-2.50760441	0.131	0.376	6.3882E-07
Crrf1	3.2541E-15	6.4714682	0.365	0.008	7.7183E-11	Abcc9	3.4829E-11	-2.33163077	0.077	0.301	8.2612E-07
Clic4	3.3933E-15	1.61822354	0.72	0.383	8.0486E-11	Zdhc14	3.7198E-11	-1.45460111	0.421	0.684	8.823E-07
Cstb	4.0521E-15	2.61504287	0.533	0.158	9.6113E-11	Acrv2a	4.6687E-11	-1.42058341	0.349	0.624	1.1074E-06
Tagln	5.9207E-15	2.10719298	0.635	0.256	1.4043E-10	Gm26804	4.8791E-11	-1.2493361	0.581	0.782	1.1573E-06
Myof	6.2552E-15	2.47151658	0.523	0.128	1.4837E-10	Mertk	4.9702E-11	-1.19833067	0.408	0.684	1.1789E-06
H2-Q7	6.5133E-15	3.90028376	0.411	0.045	1.5449E-10	Nhs1	5.2057E-11	-1.59835086	0.427	0.662	1.2347E-06
Clic1	1.0219E-14	1.64417354	0.683	0.346	2.4238E-10	Zfp973	6.0087E-11	-1.3565715	0.117	0.368	1.4252E-06
Calr	1.5932E-14	1.22755009	0.805	0.526	3.779E-10	4930578G10Ri	6.2029E-11	-2.01498238	0.325	0.586	1.4713E-06
C4b	1.7256E-14	5.79354275	0.36	0.015	4.093E-10	Klhdc8b	6.647E-11	-1.8717056	0.189	0.459	1.5766E-06
Tubb5	1.9565E-14	2.06854003	0.611	0.271	4.6406E-10	Cdh13	9.2036E-11	-2.73294762	0.085	0.308	2.183E-06
Psmb10	2.7546E-14	2.90845322	0.453	0.083	6.5336E-10	Cxcl12	1.6164E-10	-1.37817102	0.365	0.647	3.8339E-06
Kalrn	3.8158E-14	1.65722156	0.728	0.444	9.0508E-10	Pld1	1.7311E-10	-1.04786957	0.701	0.842	4.106E-06
Parp14	5.153E-14	1.84016326	0.651	0.316	1.2222E-09	Nr3c1	2.0902E-10	-1.05837883	0.659	0.812	4.9578E-06
Gm10036	5.2923E-14	1.27574471	0.76	0.451	1.2553E-09	Kcnj8	2.4813E-10	-3.59725977	0.024	0.18	5.8855E-06
Rps27rt	5.8826E-14	1.11250668	0.837	0.571	1.3953E-09	Hlf	3.7272E-10	-1.65750604	0.128	0.376	8.8407E-06
Gm20663	5.9102E-14	1.912929	0.539	0.143	1.4018E-09	Nat8f1	3.9173E-10	-1.91745214	0.099	0.331	9.2915E-06
Acd1	6.3218E-14	1.23997477	0.813	0.541	1.4995E-09	Zfp950	3.9975E-10	-1.04761676	0.445	0.699	9.4817E-06
Actg1	6.7648E-14	1.62872576	0.699	0.368	1.6045E-09	1010001N08Ri	4.4559E-10	-2.5745109	0.061	0.256	1.0569E-05
Nmepa1	7.6755E-14	1.65693633	0.704	0.398	1.8205E-09	Ces1d	4.687E-10	-2.87896744	0.019	0.165	1.1117E-05
Mrg1	1.0239E-13	1.2147839	0.781	0.489	2.4285E-09	Sox13	5.1934E-10	-1.60918458	0.165	0.429	1.2318E-05
C1s1	1.4357E-13	1.84973618	0.629	0.308	3.4053E-09	9530026P05Ril	5.2922E-10	-1.57500662	0.539	0.714	1.2553E-05
Rpl26	1.4538E-13	1.79252357	0.656	0.308	3.4483E-09	Ecm1	5.3519E-10	-1.48796722	0.355	0.624	1.2694E-05
Rpl17	1.5523E-13	1.50113381	0.707	0.383	3.682E-09	Dock6	5.724E-10	-1.30467125	0.309	0.579	1.3577E-05
Rps10	2.2444E-13	1.55965954	0.656	0.301	5.3236E-09	AK5	6.9901E-10	-1.6287154	0.48	0.669	1.658E-05
Npc2	2.2607E-13	2.11258944	0.581	0.248	5.3623E-09	Pde7b	9.3321E-10	-1.40465562	0.373	0.647	2.2135E-05
Rps23	2.8686E-13	1.3458254	0.768	0.481	6.8039E-09	Dkk2	9.8974E-10	-1.74685311	0.147	0.383	2.3476E-05
Ptma	3.22E-13	1.09770069	0.893	0.654	7.6375E-09	Pkmp2	1.1692E-09	-3.19949073	0.021	0.165	2.7732E-05
Wdr89	3.3063E-13	1.26758905	0.819	0.549	7.8422E-09	Fam120c	1.3309E-09	-1.83463701	0.147	0.383	3.1567E-05
Rpl18	6.9213E-13	1.12025562	0.795	0.504	1.6417E-08	Carmn	1.5324E-09	-1.20077921	0.285	0.564	3.6347E-05
Rpl28	7.2541E-13	1.11051304	0.821	0.541	1.7206E-08	Gm17276	1.7688E-09	-2.36464898	0.272	0.511	4.1954E-05
Rps24	7.9329E-13	1.15869531	0.827	0.602	1.8816E-08	Ehd3	1.8322E-09	-2.30462291	0.099	0.308	4.3458E-05
Rpl21	8.4807E-13	4.39618242	0.355	0.038	2.0115E-08	Dnase1	2.0935E-09	-2.72980715	0.035	0.195	4.9655E-05
Elf4	8.6656E-13	5.3439181	0.325	0.015	2.0554E-08	Syn3	2.0936E-09	-1.732978475	0.344	0.609	4.9657E-05
Rps9	8.6749E-13	1.2142547	0.819	0.564	2.0576E-08	Gm10800	2.0944E-09	-4.5854406	0.003	0.105	4.9676E-05
Tnfaip2	1.0476E-12	4.08630639	0.349	0.03	2.4847E-08	Leng8	2.5928E-09	-1.51213108	0.235	0.481	6.1498E-05
Rpl14	1.4388E-12	1.22012801	0.805	0.571	3.4126E-08	Vstm4	2.9508E-09	-1.54098572	0.293	0.541	6.9991E-05
Actn1	1.5389E-12	1.20174183	0.803	0.594	3.65E-08	Bmp6	3.0759E-09	-1.42512914	0.384	0.617	7.2958E-05
Lox	1.9371E-12	4.98085028	0.328	0.023	4.5946E-08	Vipr1	3.726E-09	-4.73393989	0.008	0.12	8.8378E-05
Rps27a	2.4799E-12	1.3444631	0.781	0.496	5.8821E-08	Kcnd3os	3.8179E-09	-3.75655079	0.005	0.113	9.0557E-05
Pigr	2.5654E-12	3.02740896	0.413	0.09	6.0849E-08	Pde11a	4.3013E-09	-1.72826027	0.112	0.338	0.00012022
Rpl23	2.5887E-12	1.09535942	0.821	0.564	6.14E-08	Nrxn2	4.9758E-09	-2.48281323	0.053	0.226	0.00011802
Pat12	2.5935E-12	3.03715359	0.371	0.045	6.1515E-08	Pdcd4	4.9992E-09	-1.20275232	0.304	0.556	0.00011858
Cd274	3.1738E-12	4.04933532	0.331	0.023	7.5279E-08	Pdzd2	5.4505E-09	-1.02251183	0.456	0.707	0.00012928
Rpl7	3.2493E-12	1.28364383	0.744	0.444	7.7071E-08	Eci3	7.2379E-09	-3.0367896	0.016	0.143	0.00017168
Tecpr2	3.2819E-12	1.63889701	0.621	0.316	7.7843E-08	Cpsf6	7.4323E-09	-1.04495362	0.485	0.722	0.00017629
Ano4	3.5228E-12	3.79387287	0.357	0.045	8.3557E-08	A230057D06Ri	8.2912E-09	-2.0077215	0.056	0.233	0.00019666
Ctsc	3.6593E-12	3.36211371	0.4	0.075	8.6795E-08	Rmdn1	1.0512E-08	-1.28306085	0.285	0.534	0.00024934
F2r	3.6823E-12	1.74896164	0.624	0.338	8.7341E-08	Adra1b	1.0837E-08	-1.91993696	0.152	0.368	0.00025705
Thbs1	5.1211E-12	2.48983307	0.563	0.248	1.2147E-07	Gm16183	1.3852E-08	-4.45731621	0.005	0.105	0.00032856
Cyba	6.5045E-12	1.36877853	0.699	0.383	1.5428E-07	Tef	1.5401E-08	-1.34631842	0.272	0.504	0.00036531
Col5a1	7.9351E-12	1.66088945	0.677	0.466	1.8821E-07	Egr1	1.7966E-08	-1.76984649	0.085	0.278	0.00042614
Runx1	9.9084E-12	4.15799778	0.336	0.038	2.3502E-07	Fam161a	1.8939E-08	-1.88108222	0.091	0.286	0.00044922
Serpinh1	1.0323E-11	1.53794715	0.683	0.414	2.4485E-07	Ttr	2.2418E-08	-3.00576274	0.019	0.143	0.00053174
Rpl4	1.0898E-11	1.42077789	0.656	0.353	2.5849E-07	Slc2a8	2.4335E-08	-3.10929689	0.016	0.135	0.00057721
Heph	1.3026E-11	1.36782272	0.691	0.376	3.0897E-07	5031425E22Ril	2.7574E-08	-1.16009315	0.52	0.714	0.00065403
Ctss	1.3339E-11	3.6908399	0.336	0.038	3.1639E-07	B3glct	2.8519E-08	-1.45947702	0.163	0.391	0.00067644
Hsd17b4	1.3955E-11	1.07119518	0.787	0.511	3.3099E-07	C7	3.1809E-08	-1.77726619	0.189	0.421	0.00075448
H2-DMa	1.5392E-11	6.7096735	0.277	0	3.6508E-07	Gm10785	3.253E-08	-2.00401219	0.096	0.286	0.00077157
Rps16	1.5598E-11	1.30897217	0.744	0.481	3.6997E-07	Fhod1	3.3746E-08	-1.32504972	0.221	0.466	0.00080043
Olfr56	1.8796E-11	2.17202209	0.477	0.15	4.4583E-07	Emp2	3.4452E-08	-1.52629497	0.189	0.421	0.00081717
Foxp1	2.1824E-11	1.19409623	0.797	0.579	5.1764E-07	Sifn5	3.8279E-08	-1.02596846	0.488	0.714	0.00090794
Rps15	2.1827E-11	1.29711414	0.779	0.526	5.1771E-07	A730049H05Ri	4.318E-08	-1.35747287	0.323	0.556	0.00102419
Cers6	2.2409E-11	1.58022625	0.616	0.308	5.3152E-07	Adhfe1	5.0483E-08	-2.07628724	0.056	0.218	0.00119741
Pabpc1	2.4778E-11	1.73178462	0.587	0.301	5.8771E-07	C1qtnf7	5.319E-08	-1.59447306	0.264	0.481	0.00126161
Rps11	2.682E-11	1.40984023	0.669	0.338	6.3614E-07	Tmem204	5.327E-08	-1.55576418	0.184	0.398	0.00126351
Ptpcr	2.7701E-11	4.18514393	0.288	0.008	6.5703E-07	Ntse	5.6863E-08	-1.55170678	0.088	0.278	0.00134873
Dcn	3.5408E-11	1.42758726	0.744	0.459	8.3985E-07	Gm48512	5.9486E-08	-2.06314657	0.056	0.218	0.00141096
Fbn1	3.8507E-11	1.11589068	0.832	0.722	9.1336E-07	Stard9	6.2828E-08	-1.24557432	0.328	0.556	0.00149023
Col12a1	3.8906E-11	2.08887894	0.568	0.271	9.228E-07	Chn1	6.2917E-08	-1.17991789	0.408	0.609	0.00149234
Rrm2b	4.2312E-11	1.20514203	0.693	0.429	1.0036E-06	Btbd3	6.2993E-08	-1.52524206	0.139	0.353	0.00149413
Zbp1	4.4616E-11	4.02068387	0.304	0.023	1.0583E-06	Slc22a8	8.9444E-08	-2.78822324	0.04	0.18	0.00212151
Rps5	6.3738E-11	1.37880027	0.696	0.414	1.5118E-06	Acaa1b	9.6511E-08	-2.40161473	0.043	0.188	0.00228916
Adcy7	6.4064E-11	3.92770946	0.301	0.023	1.5195E-06	Fhit	9.6571E-08	-1.21715291	0.485	0.669	0.00229056
Efh2	8.3231E-11	2.72029048	0.387	0.09	1.9742E-06	Ntf3	9.7556E-08	-1.76586041	0.056	0.218	0.00231394
Csrp1	8.3388E-11	1.45505403	0.664	0.383	1.9779E-06	Csgalnact1	1.0997E-07	-1.28701546	0.352	0.564	0.00260834
Tgm2	8.5588E-11	1.66838639	0.589	0.286	2.0301E-06	Lrfrn2	1.2661E-07	-2.34873309	0.053	0.203	0.00300317
Cck1	9.8612E-11	1.17235349	0.704	0.429	2.339E-06	Adcy5	1.2967E-07	-2.08172924	0.043	0.188	

Arpc2	6.5867E-10	1.2257911	0.677	0.421	1.5623E-05	Haus4	8.0818E-07	-2.15914665	0.029	0.15	0.01916919
Shisa5	1.0608E-09	1.74269456	0.461	0.173	2.5161E-05	Gm26936	8.249E-07	-2.02286874	0.08	0.241	0.0195659
Gm16685	1.0696E-09	5.34820737	0.267	0.023	2.5371E-05	Cd46	8.3983E-07	-1.68557753	0.144	0.323	0.01991985
Kcap4	1.129E-09	2.59071665	0.36	0.083	2.678E-05	Gm30524	8.514E-07	-3.26421976	0.021	0.128	0.02019446
Rps14	1.1327E-09	1.10200648	0.669	0.398	2.6867E-05	Nrxn3	9.2869E-07	-2.90977542	0.056	0.195	0.02202764
Rpl22	1.4567E-09	1.24158824	0.64	0.368	3.4552E-05	Spata7	9.9778E-07	-2.37180873	0.08	0.233	0.02366642
Actr3	1.5017E-09	1.10668975	0.696	0.444	3.5618E-05	Mapk1ip1	1.1084E-06	-1.65921964	0.08	0.241	0.02629113
Rpl6	1.6078E-09	1.10182719	0.731	0.496	3.8136E-05	Rdh16f2	1.1508E-06	-1.47301412	0.091	0.263	0.02729466
Rps25	1.6695E-09	1.23289999	0.704	0.451	3.9598E-05	Arhgap6	1.1913E-06	-1.0581917	0.533	0.699	0.02825679
Rps12-ps3	1.7219E-09	1.68721732	0.531	0.248	4.0842E-05	lqcm	1.2704E-06	-2.14938797	0.021	0.128	0.03013316
Coro1a	1.9718E-09	5.63096771	0.24	0.008	4.677E-05	Clstn2	1.2843E-06	-2.33567138	0.235	0.414	0.03046221
Pim1	2.0743E-09	2.89434294	0.331	0.068	4.9199E-05	Tsga10	1.3246E-06	-1.41595238	0.107	0.286	0.03141707
Gm4841	2.427E-09	4.40695375	0.261	0.023	5.7567E-05	Atp1b2	1.416E-06	-1.9734158	0.051	0.188	0.03358606
Hsp90ab1	2.4411E-09	1.04572193	0.744	0.534	5.7901E-05	Lrrc71	1.4484E-06	-2.53791982	0.037	0.158	0.03435493
Grn	2.9714E-09	1.68342909	0.507	0.233	7.0479E-05	Rcsd1	1.4777E-06	-1.04988867	0.291	0.511	0.03504964
Eif4a1	3.2064E-09	1.51962198	0.557	0.293	7.6052E-05	Trpc1	1.4972E-06	-1.08819233	0.325	0.541	0.03551212
Stat2	3.2952E-09	1.25336646	0.592	0.308	7.816E-05	Vegfd	1.5464E-06	-1.19826294	0.376	0.571	0.03667906
Ldlrad4	3.5155E-09	1.06953966	0.744	0.564	8.3384E-05	Gm28258	1.6548E-06	-1.11567494	0.211	0.421	0.03925059
Lgals3	3.8298E-09	3.00587674	0.317	0.068	9.0839E-05	Fancc	1.7207E-06	-1.60068627	0.285	0.474	0.04081315
Mpeg1	4.2346E-09	4.043526	0.248	0.015	0.00010044	Sytl2	1.7329E-06	-1.48665161	0.243	0.444	0.04110159
Pcdh7	5.7824E-09	1.44280486	0.48	0.211	0.00013715	Adam12	1.7932E-06	-1.09765288	0.685	0.752	0.04253192
Txn1	5.8735E-09	1.41384016	0.6	0.338	0.00013931	Fbxl3	1.8808E-06	-1.11785334	0.237	0.451	0.04461164
Pkm	5.9079E-09	1.3902327	0.571	0.301	0.00014013	Ccdc28a	2.0043E-06	-1.72756405	0.056	0.195	0.04754092
H2afz	6.0387E-09	1.94567358	0.477	0.233	0.00014323	Prpsap1	2.0424E-06	-1.14215962	0.261	0.466	0.04844336
Dock2	7.373E-09	5.87119177	0.227	0.008	0.00017488						
Npm1	9.1401E-09	1.56784016	0.523	0.271	0.00021679						
Gas7	9.2302E-09	1.6832707	0.397	0.135	0.00021893						
Ifi27l2a	1.0218E-08	1.00129563	0.632	0.383	0.00024236						
Gm12216	1.1129E-08	1.7705494	0.419	0.143	0.00026397						
Hspa5	1.1183E-08	1.02705424	0.715	0.526	0.00026524						
Cd44	1.336E-08	2.81974397	0.312	0.068	0.0003169						
Igf1	1.4069E-08	1.50971565	0.44	0.158	0.0003337						
Tgtp2	1.4195E-08	3.38414368	0.248	0.023	0.00033668						
Laptm5	1.4589E-08	4.76548299	0.221	0.008	0.00034603						
Rpl24	1.4931E-08	1.13631704	0.629	0.383	0.00035414						
Ssr3	1.5833E-08	1.33199619	0.589	0.368	0.00037554						
Apbb1ip	1.5873E-08	2.39885566	0.277	0.038	0.00037649						
C1s2	1.592E-08	2.40650283	0.331	0.083	0.0003776						
H2-Q6	1.6392E-08	3.61162333	0.245	0.023	0.0003888						
Fat1	1.98E-08	1.07646365	0.68	0.489	0.00046963						
Scube1	2.3736E-08	2.50488034	0.331	0.09	0.00056301						
Unc5b	2.5004E-08	2.97166035	0.291	0.06	0.00059306						
Fam26f	2.7497E-08	6.00414602	0.2	0	0.00065221						
B4galt5	3.3346E-08	1.81015034	0.432	0.173	0.00079092						
Apol6	3.5117E-08	6.0654125	0.197	0	0.00083294						
Tmed2	3.6353E-08	1.57808562	0.451	0.18	0.00086226						
Psme1	3.8888E-08	1.507393	0.472	0.203	0.00092239						
Rpn1	3.9363E-08	1.56349964	0.475	0.218	0.00093365						
Pycard	4.0139E-08	3.26825122	0.248	0.03	0.00095206						
Rps26	4.1816E-08	1.49809294	0.52	0.256	0.00099185						
Hk2	4.1964E-08	5.32005693	0.208	0.008	0.00099534						
Gm2000	4.4745E-08	1.44910067	0.488	0.241	0.0010613						
Srgn	4.9595E-08	3.04547874	0.277	0.053	0.00117634						
Dram1	5.0127E-08	1.93845087	0.296	0.06	0.00118895						
Emp1	5.4199E-08	1.45537857	0.52	0.263	0.00128555						
Rnf213	5.6544E-08	1.0154364	0.667	0.429	0.00134116						
Csf1	5.8197E-08	1.96933291	0.448	0.211	0.00138038						
Samd9l	6.1685E-08	1.53766771	0.389	0.135	0.00146311						
Abrac1	6.679E-08	1.84312548	0.376	0.135	0.00158419						
Rpl39	7.4484E-08	1.21393739	0.592	0.323	0.00176669						
Tram1	8.5272E-08	1.71178797	0.44	0.195	0.00202256						
Rcn1	8.65E-08	2.05203936	0.333	0.098	0.0020517						
Sifn2	8.6849E-08	4.29830568	0.213	0.015	0.00205996						
Rbp1	1.0161E-07	1.56151404	0.541	0.308	0.00241						
P4hb	1.0752E-07	1.46318408	0.549	0.331	0.00255022						
Ciita	1.1221E-07	4.51607011	0.211	0.015	0.00266156						
Pdia3	1.2126E-07	1.10869021	0.632	0.406	0.00287626						
Ucp2	1.2203E-07	1.74908391	0.315	0.075	0.00289438						
Gm9844	1.3103E-07	1.58307469	0.395	0.15	0.00310795						
Manf	1.4159E-07	1.35298551	0.525	0.278	0.00335842						
Pomp	1.4321E-07	1.84995103	0.389	0.158	0.00339682						
Socs1	1.4396E-07	3.53010619	0.232	0.03	0.00341453						
C1qc	1.4969E-07	6.27708461	0.181	0	0.00355052						
Anxa2	1.6009E-07	1.31795369	0.595	0.414	0.00379726						
Arf5	1.7773E-07	1.39938836	0.52	0.293	0.00421558						
Pknnox2	1.8116E-07	1.16328312	0.707	0.579	0.00429693						
Epsti1	2.0255E-07	3.06847715	0.235	0.03	0.00480426						
Rpl11	2.0317E-07	1.02841014	0.664	0.421	0.00481895						
Ifi44	2.1591E-07	3.03178255	0.251	0.045	0.00512113						
Synj2	2.1721E-07	1.96295539	0.328	0.098	0.00515206						
Rps3a1	2.1746E-07	1.07536908	0.592	0.414	0.00515794						
Dtx3l	2.3216E-07	2.28857742	0.28	0.06	0.0055065						
Uhrf1bp1l	2.5592E-07	1.18241074	0.571	0.353	0.0060701						
Rps6	2.736E-07	1.28982979	0.501	0.263	0.00648943						
Sqle	2.8972E-07	3.17464891	0.235	0.038	0.00687188						
F3	3.1504E-07	2.08745888	0.275	0.06	0.00747249						
Stk17b	3.1658E-07	1.37975981	0.437	0.195	0.00750895						
Top2a	3.3158E-07	3.50653548	0.203	0.015	0.00786477						
Ctsb	3.7238E-07	1.17884614	0.573	0.323	0.0083257						
Parp11	3.8678E-07	1.60970978	0.405	0.165	0.00917409						
H2-DMb2	3.8713E-07	5.75111473	0.171	0	0.00918231						
Thbs2	4.2399E-07	2.15101386	0.264	0.053	0.01005657						
F830016B08R	4.4183E-07	2.02882296	0.328	0.105	0.0104798						
Prkcd	4.5642E-07	1.73502178	0.368	0.143	0.01082575						
Lmna	4.9337E-07	1.51576683	0.416	0.18	0.01170217						
Gabaraap	4.9521E-07	1.25444972	0.573	0.361	0.01174577						
Pdlim7	5.7831E-07	1.38691115	0.435	0.195	0.01371686						
Ckb	5.7901E-07	1.48421541	0.467	0.241	0.01373365						
Arpc3	6.4673E-07	1.16372446	0.528	0.293	0.0153397						

Ifitm1	6.8148E-07	1.07993633	0.483	0.241	0.01616406
Naaa	6.8559E-07	4.52448634	0.179	0.008	0.01626158
Lcn2	7.8295E-07	5.8295418	0.163	0	0.0185707
Pfkfb	7.8903E-07	2.05247876	0.296	0.083	0.01871493
Lcp1	8.0257E-07	3.55513119	0.224	0.038	0.01903625
Calu	8.0623E-07	1.06724064	0.573	0.353	0.01912285
Aif1	8.5001E-07	4.48465971	0.176	0.008	0.02016128
H2afj	9.3227E-07	1.2661901	0.525	0.301	0.02211256
Casp12	9.704E-07	1.47072362	0.387	0.158	0.02301683
Txndc5	9.7369E-07	1.43270212	0.464	0.248	0.02309489
Csmd1	1.077E-06	1.60340707	0.619	0.436	0.02554586
Eif5a	1.1294E-06	1.51946784	0.464	0.263	0.02678921
Casp4	1.27E-06	1.40090272	0.459	0.248	0.0301242
Ppp1r14b	1.3022E-06	1.81789501	0.315	0.098	0.03088612
Zbtb7c	1.3138E-06	1.12729575	0.376	0.143	0.03116156
Rac2	1.3432E-06	4.38173402	0.171	0.008	0.03185889
Sec61a1	1.4228E-06	1.44200119	0.467	0.256	0.03374763
Wfdc2	1.4551E-06	1.13779922	0.635	0.444	0.03451428
Cybb	1.6716E-06	4.68358738	0.168	0.008	0.03964796
Id2	1.6994E-06	1.04054567	0.515	0.301	0.04030921
Crip1	1.742E-06	1.2575011	0.384	0.165	0.04131959
Tyropbp	1.8522E-06	3.2477211	0.195	0.023	0.0439323
Capns1	1.9091E-06	1.32055128	0.477	0.271	0.04528245
Plec	1.9573E-06	1.14852369	0.515	0.293	0.0464246
Aff3	2.0577E-06	1.10248398	0.584	0.376	0.04880603

Table S2: Results from differential gene expression TCMR vs. Control

#If there are no genes present, it means no gene has passed the filter of the FindMarkers function (avg_log2FC = |1| & p_val_adj < 0.05 & pct.1/2 > 0.1)

Urothelial cells

*This Fold Change was calculated between [C57BL/6 to BALB/c] and [C57BL/6 to C57BL/6]

Gene upr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj	Gene downr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj
#											
						Lypd2	2.8598E-13	-4.2803509	0.034	0.875	6.783E-09
						Ranbp3l	6.1722E-12	-6.49446	0.057	0.875	1.464E-07
						Cyp4a10	1.8237E-11	-6.2528184	0	0.5	4.3257E-07
						Ttr	1.8237E-11	-5.9521852	0	0.5	4.3257E-07
						Ppp1r3c	1.8237E-11	-6.6644697	0	0.5	4.3257E-07
						Anxa9	4.1465E-11	-3.868942	0.057	0.875	9.835E-07
						Ptger3	4.3159E-11	-4.5515538	0.034	0.75	1.0237E-06
						Lmcd1	1.9755E-10	-4.8849915	0.045	0.75	4.6857E-06
						Tspan13	1.0395E-09	-3.4167598	0.114	1	2.4656E-05
						Elf5	2.3277E-09	-6.2843454	0.011	0.5	5.5212E-05
						Hp	2.8732E-09	-5.7488154	0.011	0.5	6.815E-05
						Fbxo2	3.5424E-09	-4.8134889	0.011	0.5	8.4023E-05
						Spink10	4.3625E-09	-4.755129	0.011	0.5	0.00010347
						Smx32	4.3625E-09	-4.8038998	0.011	0.5	0.00010347
						Dpp7	5.3661E-09	-4.2348515	0.011	0.5	0.00012728
						Prss35	7.3316E-09	-6.2246521	0	0.375	0.0001739
						Xylb	7.3316E-09	-5.6191321	0	0.375	0.0001739
						Ugt3a1	7.3316E-09	-6.1972768	0	0.375	0.0001739
						Fbxo6	7.8211E-09	-2.6454199	0.114	1	0.00018551
						Lamb2	2.3982E-08	-2.8308127	0.148	1	0.00056883
						Myh14	4.1237E-08	-2.3046683	0.091	0.875	0.0009781
						Slc25a35	7.8242E-08	-2.6019598	0.102	0.875	0.00185583
						Slc35g2	1.4364E-07	-4.2874954	0.023	0.5	0.00340695
						Pcx	1.6677E-07	-2.961459	0.17	1	0.00395568
						Epor	2.0216E-07	-3.4000432	0.023	0.5	0.00479494
						Dyrk1b	2.3948E-07	-3.4090557	0.023	0.5	0.00568017
						Nb1l	2.4734E-07	-3.1443279	0.08	0.75	0.00586661
						Gpc5	2.4759E-07	-3.997777	0.227	1	0.00587248
						Krt23	5.6362E-07	-2.6901403	0.125	0.875	0.01336858
						Slc22a4	7.1958E-07	-3.2629689	0.091	0.75	0.01706774
						Zan	7.8481E-07	-5.3716269	0.011	0.375	0.01861501
						Gucy2g	7.8481E-07	-4.976194	0.011	0.375	0.01861501
						Dixdc1	8.9779E-07	-2.8705599	0.091	0.75	0.0212946
						Ctr3	9.5438E-07	-4.5932595	0.011	0.375	0.02263697
						Fam174b	9.9384E-07	-2.7637322	0.148	0.875	0.023573
						Napepld	1.3148E-06	-4.2673944	0.034	0.5	0.03118612
						Lifr	1.3786E-06	-2.030588	0.125	0.875	0.03269963
						Usp11	1.4054E-06	-3.9243062	0.011	0.375	0.03333367
						Gtpbp6	1.4054E-06	-4.0158412	0.011	0.375	0.03333367
						Ksr2	1.4054E-06	-3.7765925	0.011	0.375	0.03333367
						Ogfod2	1.4054E-06	-3.2941304	0.011	0.375	0.03333367
						Bcat1	1.4054E-06	-3.8829284	0.011	0.375	0.03333367
						Adat1	1.4054E-06	-4.2340489	0.011	0.375	0.03333367
						Hspb2	1.4054E-06	-3.4885991	0.011	0.375	0.03333367
						Atf1	1.4054E-06	-3.473257	0.011	0.375	0.03333367
						Slc22a22	1.4054E-06	-3.322298	0.011	0.375	0.03333367
						Fkbp11	1.4054E-06	-3.7256744	0.011	0.375	0.03333367
						Afap1l1	1.4054E-06	-3.1509823	0.011	0.375	0.03333367
						Ephx1	1.4961E-06	-3.0642029	0.193	0.875	0.03548665
						Gm12145	1.5238E-06	-3.7839055	0.034	0.5	0.03614211
						Myo3b	1.7249E-06	-2.4415793	0.091	0.75	0.04091239
						Cnmn1	1.7383E-06	-3.5319678	0.068	0.625	0.04123175
						Fmc1	2.0198E-06	-2.118332	0.114	0.875	0.04790821
						Lrrc8e	2.0414E-06	-3.486208	0.034	0.5	0.04842064
						Ppt2	2.0414E-06	-3.4207118	0.034	0.5	0.04842064

Table S2: Results from differential gene expression TCMR vs. Control

Urothelial cells						*This Fold Change was calculated between [BALB/c to C57BL/6] and [BALB/c to BALB/c]					
Gene upr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj	Gene downr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj
Cd74	1.0198E-06	6.09213083	1	0.091	0.02418981	Tnn	1.8854E-10	-7.57422273	0	1	4.4719E-06
B2m	1.0301E-06	4.42023472	1	0.727	0.0244329	Meox2	1.7169E-07	-6.29263665	0	0.727	0.00407231
H2-K1	1.186E-06	3.56339582	1	0.727	0.02813099	Calml3	8.1652E-07	-5.17619532	0.031	0.727	0.01936716
						Prss35	1.3824E-06	-6.38683138	0	0.636	0.03278835

Table S2: Results from differential gene expression TCMR vs. Control

#If there are no genes present, it means no gene has passed the filter of the FindMarkers function (avg_log2FC = |1| & p_val_adj < 0.05 & pct.1/2 > 0.1)

Parietal epithelial cells

*This Fold Change was calculated between [C57BL/6 to BALB/c] and [C57BL/6 to C57BL/6]

Gene upr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj	Gene downr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj
#						Ak4	1.1078E-12	-7.578886	0	0.667	2.6275E-08
						Gc	6.2817E-09	-6.1380745	0.013	0.667	0.000149
						Dgat2	6.2817E-09	-5.6621075	0.013	0.667	0.000149
						Dsn1	9.9473E-09	-5.9376276	0.013	0.667	0.00023594
						Ngef	1.69E-07	-4.7989704	0.079	1	0.00400862
						Cdkl1	3.5605E-07	-4.6202186	0.079	1	0.00844509
						2410131K14R	4.9183E-07	-6.2178738	0.026	0.667	0.0116658
						Slc22a1	4.9183E-07	-5.6400853	0.026	0.667	0.0116658
						Spp2	6.7998E-07	-7.2197635	0	0.333	0.01612842
						AA543186	6.7998E-07	-7.0149015	0	0.333	0.01612842
						Kcnt1	6.7998E-07	-6.4462131	0	0.333	0.01612842
						Dnm1	6.7998E-07	-7.0149015	0	0.333	0.01612842
						Slco4a1	6.7998E-07	-7.2197635	0	0.333	0.01612842
						1700034I23Ril	6.7998E-07	-7.0149015	0	0.333	0.01612842
						Car14	6.7998E-07	-7.0149015	0	0.333	0.01612842
						Demnd2c	6.7998E-07	-6.4462131	0	0.333	0.01612842
						4930548K13R	6.7998E-07	-7.0149015	0	0.333	0.01612842
						Gm12472	6.7998E-07	-6.11748	0	0.333	0.01612842
						Podn	6.7998E-07	-6.11748	0	0.333	0.01612842
						Cyp4a14	6.7998E-07	-7.0149015	0	0.333	0.01612842
						Cyp4a10	6.7998E-07	-6.4462131	0	0.333	0.01612842
						Tctex1d4	6.7998E-07	-7.0149015	0	0.333	0.01612842
						Nt5c1a	6.7998E-07	-6.11748	0	0.333	0.01612842
						Ptpru	6.7998E-07	-6.4462131	0	0.333	0.01612842
						Cldn15	6.7998E-07	-6.11748	0	0.333	0.01612842
						Uroc1	6.7998E-07	-6.4462131	0	0.333	0.01612842
						Timem72	6.7998E-07	-6.4462131	0	0.333	0.01612842
						Lfrn1	6.7998E-07	-7.3003277	0	0.333	0.01612842
						Il4l1	6.7998E-07	-6.11748	0	0.333	0.01612842
						Gabrb3	6.7998E-07	-6.4462131	0	0.333	0.01612842
						Gm4593	6.7998E-07	-6.11748	0	0.333	0.01612842
						Cyp2e1	6.7998E-07	-7.2197635	0	0.333	0.01612842
						Muc6	6.7998E-07	-6.11748	0	0.333	0.01612842
						Tube1	6.7998E-07	-6.11748	0	0.333	0.01612842
						Susd2	6.7998E-07	-6.4462131	0	0.333	0.01612842
						Gm33543	6.7998E-07	-6.4462131	0	0.333	0.01612842
						Myl6b	6.7998E-07	-6.4462131	0	0.333	0.01612842
						Mettl7b	6.7998E-07	-6.4462131	0	0.333	0.01612842
						Tll1	6.7998E-07	-6.4462131	0	0.333	0.01612842
						Gm45740	6.7998E-07	-7.0149015	0	0.333	0.01612842
						Fam107a	6.7998E-07	-6.11748	0	0.333	0.01612842
						Gm49180	6.7998E-07	-6.4462131	0	0.333	0.01612842
						Gm34934	6.7998E-07	-6.11748	0	0.333	0.01612842
						Rnf212b	6.7998E-07	-6.4462131	0	0.333	0.01612842
						Cnmd	6.7998E-07	-7.3003277	0	0.333	0.01612842
						Pcdh17	6.7998E-07	-7.7205898	0	0.333	0.01612842
						Chrn1b4	6.7998E-07	-6.4462131	0	0.333	0.01612842
						Nrg4	6.7998E-07	-7.0149015	0	0.333	0.01612842
						Aph1b	6.7998E-07	-6.11748	0	0.333	0.01612842
						Gm15619	6.7998E-07	-6.11748	0	0.333	0.01612842
						Ect3	6.7998E-07	-6.4462131	0	0.333	0.01612842
						Pitx1	6.7998E-07	-6.11748	0	0.333	0.01612842
						Gm48500	6.7998E-07	-6.4462131	0	0.333	0.01612842
						Rasgrf2	6.7998E-07	-7.7205898	0	0.333	0.01612842
						Zfp366	6.7998E-07	-6.4462131	0	0.333	0.01612842
						Gm4419	6.7998E-07	-7.0149015	0	0.333	0.01612842
						Esrrb	6.7998E-07	-7.7205898	0	0.333	0.01612842
						Fbln5	6.7998E-07	-6.4462131	0	0.333	0.01612842
						Ranbp3l	6.7998E-07	-6.4462131	0	0.333	0.01612842
						Ugt3a1	6.7998E-07	-6.4462131	0	0.333	0.01612842
						2310043O21R	6.7998E-07	-6.11748	0	0.333	0.01612842
						Col14a1	6.7998E-07	-6.11748	0	0.333	0.01612842
						Pvalb	6.7998E-07	-6.4462131	0	0.333	0.01612842
						AC102334.1	6.7998E-07	-6.4462131	0	0.333	0.01612842
						Dnase1	6.7998E-07	-6.4462131	0	0.333	0.01612842
						Dnajc28	6.7998E-07	-7.0149015	0	0.333	0.01612842
						Crb3	6.7998E-07	-6.11748	0	0.333	0.01612842
						Srd5a2	6.7998E-07	-7.3003277	0	0.333	0.01612842
						Gm26910	6.7998E-07	-6.4462131	0	0.333	0.01612842
						Slc22a8	6.7998E-07	-6.4462131	0	0.333	0.01612842
						Loxl4	6.7998E-07	-6.11748	0	0.333	0.01612842
						Efcab2	9.858E-07	-5.3771328	0.026	0.667	0.02338219
						Acsm2	9.858E-07	-4.6148253	0.026	0.667	0.02338219
						Hgb1bp1	9.858E-07	-4.0332133	0.026	0.667	0.02338219

Table S2: Results from differential gene expression TCMR vs. Control

Parietal epithelial cells

*This Fold Change was calculated between [BALB/c to C57BL/6] and [BALB/c to BALB/c]

Gene upr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj	Gene downr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj
Ilgp1	1.8029E-15	7.23913091	1	0.061	4.2764E-11	Gm26870	5.3087E-11	-5.37542565	0.019	0.667	1.2592E-06
Cd74	2.2061E-15	6.4927671	1	0.121	5.2327E-11	Chst9	6.2233E-11	-2.27979364	0.574	1	1.4761E-06
H2-D1	1.5673E-14	3.31474515	1	0.697	3.7175E-10	Fras1	1.876E-08	-2.54129944	0.519	0.879	0.00044496
B2m	2.7207E-14	4.49610811	0.981	0.364	6.4533E-10	Rbms3	2.5189E-07	-1.4037455	0.833	0.97	0.00597454
H2-K1	1.4577E-13	3.63133096	0.981	0.455	3.4576E-09	Phldb2	2.7238E-07	-1.47658612	0.796	0.97	0.00646047
Stat1	3.2736E-13	5.13624628	0.926	0.121	7.7646E-09	Oxr1	2.7574E-07	-1.29005972	0.963	1	0.0065403
H2-Ab1	5.5481E-13	4.40676688	0.944	0.152	1.3159E-08	Shank2	4.1857E-07	-1.66518545	0.519	0.879	0.009928
H2-Aa	8.0616E-13	4.86742688	0.907	0.061	1.9121E-08						
H2-Eb1	1.3606E-12	5.50518371	0.889	0.061	3.2272E-08						
Gbp2b	2.5868E-12	6.2661175	0.87	0.061	6.1356E-08						
Ly6a	3.823E-12	4.49967341	0.889	0.121	9.0677E-08						
Psmb8	4.2474E-12	4.20064115	0.889	0.091	1.0075E-07						
Irgm1	6.0367E-12	4.67875518	0.87	0.121	1.4318E-07						
Vcam1	1.1353E-11	4.67015854	0.889	0.152	2.6928E-07						
Tmsb4x	3.8867E-11	2.91246709	0.963	0.485	9.2188E-07						
H2-T23	8.0009E-11	3.94377705	0.852	0.091	1.8977E-06						
Irgm2	9.3787E-11	4.61360656	0.815	0.091	2.2245E-06						
Olfr56	1.4975E-10	6.70305625	0.759	0	3.5518E-06						
Ubd	1.4975E-10	7.09656089	0.759	0	3.5518E-06						
Nlrc5	1.8152E-10	4.75118974	0.796	0.03	4.3055E-06						
Ly6e	2.2766E-10	3.67365946	0.852	0.121	5.3999E-06						
Psmb9	3.2634E-10	6.74657437	0.741	0	7.7405E-06						
H2-Q4	3.6664E-10	3.38991076	0.833	0.121	8.6964E-06						
Cxcl10	6.9954E-10	8.11671408	0.722	0	1.6592E-05						
Gm4951	6.9954E-10	7.24122227	0.722	0	1.6592E-05						
Spp1	1.452E-09	1.95429959	1	0.848	3.444E-05						
Gbp7	2.1718E-09	4.54526205	0.759	0.091	5.1513E-05						
Tapbp	2.2907E-09	2.64451262	0.87	0.273	5.4334E-05						
Irf1	3.3506E-09	4.88441523	0.741	0.061	7.9474E-05						
Gbp8	5.6226E-09	4.46730696	0.722	0.061	0.00013336						
Tap1	6.2606E-09	6.48730785	0.667	0	0.0001485						
Gbp2	6.4088E-09	5.69616336	0.685	0.03	0.00015201						
Tap2	1.1037E-08	3.53487459	0.741	0.091	0.0002618						
Ifitm3	1.4E-08	3.50277237	0.759	0.121	0.00033206						
Parp14	1.5543E-08	3.60569767	0.796	0.182	0.00036866						
Tpt1	3.1002E-08	1.52438381	0.963	0.636	0.00073534						
Gm20663	4.5762E-08	5.11668224	0.648	0.03	0.00108544						
Ciita	4.8357E-08	4.6872377	0.648	0.03	0.00114699						
Tnfrsf10	8.6486E-08	3.2023381	0.741	0.152	0.00205136						
Bst2	1.1911E-07	4.99901345	0.611	0.03	0.00282522						
Gm12185	1.7907E-07	6.09108852	0.574	0	0.0042474						
Wdr89	2.5092E-07	1.91539289	0.907	0.394	0.00595158						
mt-Co1	2.6087E-07	1.67191696	0.963	0.545	0.00618748						
C3	5.8614E-07	2.83111384	0.815	0.455	0.0139026						
Gbp5	6.2153E-07	6.53789481	0.537	0	0.01474202						
Ifi44l	6.2153E-07	5.3919164	0.537	0	0.01474202						
Actb	7.3736E-07	1.81893849	0.963	0.515	0.01748949						
H2-T22	7.7441E-07	3.82340582	0.611	0.061	0.01836817						
Cnot6	8.0939E-07	1.58609405	0.889	0.576	0.01919797						
Gbp3	1.1356E-06	5.72102523	0.519	0	0.02693449						
Gm4841	1.1356E-06	5.53850667	0.519	0	0.02693449						
Herc6	1.2509E-06	3.89808086	0.593	0.061	0.02966997						
Rpl27-ps3	1.2597E-06	2.09920027	0.796	0.242	0.02987987						
Fth1	1.5918E-06	1.28554227	0.981	0.818	0.03775522						

Table S2: Results from differential gene expression TCMR vs. Control

#If there are no genes present, it means no gene has passed the filter of the FindMarkers function (avg_log2FC = |1| & p_val_adj < 0.05 & pct.1/2 > 0.1)

Leukocytes

*This Fold Change was calculated between [C57BL/6 to BALB/c] and [C57BL/6 to C57BL/6]

Gene upr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj	Gene downr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj
#											
						Gm26615	3.969E-136	-11.265804	0	0.333	9.415E-132
						Gm34225	3.969E-136	-11.14802	0	0.333	9.415E-132
						Gm40617	3.969E-136	-11.265804	0	0.333	9.415E-132
						Gm34408	3.969E-136	-11.265804	0	0.333	9.415E-132
						AC158974.2	3.969E-136	-11.463759	0	0.333	9.415E-132
						Gm5475	3.969E-136	-11.463759	0	0.333	9.415E-132
						Lipi	3.969E-136	-11.265804	0	0.333	9.415E-132
						Car3	6.4745E-69	-10.827997	0.001	0.333	1.5357E-64
						Kcnk3	6.4745E-69	-9.5370368	0.001	0.333	1.5357E-64
						Car14	2.0719E-55	-7.8668464	0.004	0.667	4.9143E-51
						Cldn34d	1.7906E-46	-9.4019301	0.001	0.333	4.2471E-42
						Gm34590	1.7906E-46	-9.9341554	0.001	0.333	4.2471E-42
						Csrnp3	2.2375E-46	-8.5442655	0.001	0.333	5.3072E-42
						Ppef1	2.2375E-46	-8.6719973	0.001	0.333	5.3072E-42
						Gm43568	2.7953E-46	-8.1073899	0.001	0.333	6.6302E-42
						Lyz4	2.7953E-46	-8.241985	0.001	0.333	6.6302E-42
						Prima1	2.7953E-46	-7.6734613	0.001	0.333	6.6302E-42
						Cyp2d12	2.7953E-46	-8.4461397	0.001	0.333	6.6302E-42
						Slc47a2	3.1057E-35	-8.5165555	0.002	0.333	7.3664E-31
						AC117197.3	3.1057E-35	-8.6307216	0.002	0.333	7.3664E-31
						Crispld1	3.6712E-35	-8.4927709	0.002	0.333	8.7078E-31
						Tal2	3.6712E-35	-8.0603817	0.002	0.333	8.7078E-31
						6030445D17R	3.6712E-35	-8.1560588	0.002	0.333	8.7078E-31
						Ubxn10	3.6712E-35	-8.1173783	0.002	0.333	8.7078E-31
						Cckar	3.6712E-35	-8.1242364	0.002	0.333	8.7078E-31
						Gm10639	3.6712E-35	-8.5733606	0.002	0.333	8.7078E-31
						1700016G14R	3.6712E-35	-8.1538518	0.002	0.333	8.7078E-31
						Fttn1	3.8406E-35	-6.8579125	0.008	0.667	9.1095E-31
						A230001M10I	4.339E-35	-7.734501	0.002	0.333	1.0292E-30
						Gm2163	1.764E-28	-8.6581909	0.002	0.333	4.184E-24
						Csar2	1.764E-28	-8.2054344	0.002	0.333	4.184E-24
						Hcrtr2	1.764E-28	-8.9845012	0.002	0.333	4.184E-24
						Gm12111	2.0168E-28	-8.0015911	0.002	0.333	4.7838E-24
						Gm27216	2.6354E-28	-7.5015926	0.002	0.333	6.2509E-24
						Tmem26	7.9799E-24	-7.0984091	0.003	0.333	1.8927E-19
						Vwce	7.9799E-24	-7.1828367	0.003	0.333	1.8927E-19
						L3hyphd	9.227E-24	-6.1498488	0.012	0.667	2.1885E-19
						Gm47578	9.6186E-21	-8.69775	0.003	0.333	2.2814E-16
						Hs393a1	9.6186E-21	-8.7996171	0.003	0.333	2.2814E-16
						Albca8b	9.6186E-21	-7.5458045	0.003	0.333	2.2814E-16
						Sypl2	1.0587E-20	-7.2060654	0.003	0.333	2.511E-16
						Gm46332	1.0587E-20	-7.8870702	0.003	0.333	2.511E-16
						Rai2	1.1651E-20	-7.1466944	0.003	0.333	2.7634E-16
						A730049H05F	1.1651E-20	-7.351115	0.003	0.333	2.7634E-16
						Slc22a19	1.2821E-20	-7.0418368	0.003	0.333	3.0409E-16
						Klhl3	1.1165E-18	-5.8080443	0.016	0.667	2.6481E-14
						Eya1	2.5518E-18	-7.6631118	0.004	0.333	6.0525E-14
						Gm43388	2.5518E-18	-7.377648	0.004	0.333	6.0525E-14
						Rdh16f2	2.7753E-18	-7.0558338	0.004	0.333	6.5828E-14
						2010309G21R	2.7753E-18	-7.5252566	0.004	0.333	6.5828E-14
						Gm43738	3.0182E-18	-7.300705	0.004	0.333	7.1589E-14
						Anks6	3.0182E-18	-6.9745256	0.004	0.333	7.1589E-14
						Mettl24	3.0182E-18	-7.1314886	0.004	0.333	7.1589E-14
						Klf26a	3.2821E-18	-6.9243702	0.004	0.333	7.7848E-14
						Aldh1a3	3.5687E-18	-6.7366616	0.004	0.333	8.4646E-14
						Ppara	6.6246E-17	-6.8987201	0.018	0.667	1.5713E-12
						Etnk2	1.972E-16	-7.351726	0.004	0.333	4.6774E-12
						Klhl13	1.972E-16	-8.1092852	0.004	0.333	4.6774E-12
						Syl16	2.125E-16	-7.0694842	0.004	0.333	5.0404E-12
						Edil3	2.2898E-16	-7.1573955	0.004	0.333	5.4311E-12
						Zfp385b	2.467E-16	-6.9332154	0.004	0.333	5.8516E-12
						6030468B19R	2.467E-16	-6.85336	0.004	0.333	5.8516E-12
						Enho	2.6578E-16	-6.7162362	0.004	0.333	6.3041E-12
						Crdp1	2.6578E-16	-6.9062719	0.004	0.333	6.3041E-12
						Plekha6	6.715E-16	-5.6201141	0.019	0.667	1.5927E-11
						Wtip	6.1605E-15	-5.3621224	0.02	0.667	1.4612E-10
						Nat8f3	6.4227E-15	-9.1990306	0.005	0.333	1.5234E-10
						Gm32857	6.87E-15	-7.3215491	0.005	0.333	1.6295E-10
						Mogat1	7.348E-15	-6.7463119	0.005	0.333	1.7429E-10
						Zmynd12	7.8586E-15	-6.5768937	0.005	0.333	1.864E-10
						Defb29	8.2299E-15	-4.7099622	0.047	1	1.952E-10
						Frat1	8.4041E-15	-6.6861453	0.005	0.333	1.9934E-10
						Slco4c1	8.9868E-15	-6.4902078	0.005	0.333	2.1316E-10
						Blk	8.9868E-15	-5.8215425	0.005	0.333	2.1316E-10
						Pp2d1	8.9868E-15	-6.5644397	0.005	0.333	2.1316E-10
						Mef1	1.7007E-14	-4.7097346	0.048	1	4.0339E-10
						Mical2	3.0484E-14	-5.5197282	0.022	0.667	7.2304E-10
						Ptchd1	1.1153E-13	-8.765886	0.005	0.333	2.6454E-09
						Adm	1.1153E-13	-7.0813125	0.005	0.333	2.6454E-09
						Grm1	1.1153E-13	-6.7976868	0.005	0.333	2.6454E-09
						Gm47782	1.1153E-13	-8.0755551	0.005	0.333	2.6454E-09
						Gm6999	1.1153E-13	-7.555912	0.005	0.333	2.6454E-09
						Gm2885	1.1153E-13	-7.3158011	0.005	0.333	2.6454E-09
						Ppfia2	1.1858E-13	-7.0120217	0.005	0.333	2.8125E-09
						Rnf212b	1.1858E-13	-7.1491913	0.005	0.333	2.8125E-09
						Ms4a1	1.2606E-13	-6.4557058	0.005	0.333	2.99E-09
						Gm4869	1.3401E-13	-6.5647596	0.005	0.333	3.1785E-09
						Gm10827	1.5144E-13	-6.4495551	0.005	0.333	3.5912E-09
						Chrm9a	1.6092E-13	-6.1417173	0.005	0.333	3.8169E-09
						Tbx6	1.6092E-13	-6.2660968	0.005	0.333	3.8169E-09
						Cox6a2	1.6092E-13	-6.1607967	0.005	0.333	3.8169E-09
						Sema3b	1.8175E-13	-6.1407464	0.005	0.333	4.3108E-09
						Tst	5.4977E-13	-5.7342786	0.024	0.667	1.304E-08
						Flgln2	7.3499E-13	-5.4057674	0.024	0.667	1.7433E-08
						Fmo1	7.383E-13	-6.5064813	0.025	0.667	1.7512E-08
						Fcer2a	1.2778E-12	-6.8362909	0.006	0.333	3.0308E-08
						Gm10732	1.2778E-12	-6.5709129	0.006	0.333	3.0308E-08
						Zfp532	1.2778E-12	-6.7625533	0.006	0.333	3.0308E-08
						Kctd8	1.4296E-12	-6.3256641	0.006	0.333	3.3908E-08
						Slpr3	1.599E-12	-6.3971749	0.006	0.333	3.7927E-08
						Dnase1l2	1.599E-12	-6.347703	0.006	0.333	3.7927E-08
						Col14a1	5.602E-12	-5.7259862	0.026	0.667	1.3287E-07
						Ltbp4	9.0962E-12	-7.3848083	0.006	0.333	2.1575E-07
						Fgf9	9.0962E-12	-7.3369519	0.006	0.333	2.1575E-07
						AC138306.1	9.0962E-12	-6.9826729	0.006	0.333	2.1575E-07
						Gm42722	9.5812E-12	-6.736968	0.006	0.333	2.2726E-07
						Rasgrp3	1.006E-11	-4.8965972	0.026	0.667	2.3862E-07
						Enpp3	1.1193E-11	-6.4152137	0.006	0.333	2.6549E-07
						Gabrb3	5.1472E-11	-7.439209	0.007	0.333	1.2209E-06
						Lrig3	5.1472E-11	-7.727042	0.007	0.333	1.2209E-06
						Dchs1	6.2418E-11	-6.1421378	0.007	0.333	1.4805E-06
						Slc3	7.3509E-11	-4.3392584	0.068	1	1.7436E-06
						Gm15675	8.7298E-11	-5.2937402	0.007	0.333	2.0706E-06
						Prss8	9.3057E-11	-4.8997951	0.069	1	2.2072E-06
						Ugt3a2	1.3882E-10	-5.3909341	0.03	0.667	3.2928E-06
						Rtn1	1.649E-10	-5.4326669	0.031	0.667	3.9113E-06
						Echdc3	2.3169E-10	-7.3257005	0.008	0.333	5.4955E-06
						Mmp13	2.3169E-10	-7.5670554	0.008	0.333	5.4955E-06

Pikna4	9.8297E-10	-6.0647473	0.008	0.333	2.3315E-05
Gm16234	9.8297E-10	-6.2302941	0.008	0.333	2.3315E-05
Cpm	9.8297E-10	-6.2994263	0.008	0.333	2.3315E-05
Cyp2d26	9.8297E-10	-6.2232008	0.008	0.333	2.3315E-05
Gm35281	1.0253E-09	-6.1332407	0.008	0.333	2.432E-05
Rab6b	1.0253E-09	-5.9696495	0.008	0.333	2.432E-05
Pcx	1.1632E-09	-5.4316094	0.034	0.667	2.7592E-05
Gm4450	1.1634E-09	-5.6960153	0.008	0.333	2.7594E-05
Pdtd2	1.2429E-09	-4.7098923	0.033	0.667	2.9479E-05
Klhdic8b	2.7759E-09	-6.6830251	0.009	0.333	6.584E-05
Ly6d	2.7759E-09	-7.4416873	0.009	0.333	6.584E-05
Stc1	3.0062E-09	-6.1128009	0.009	0.333	7.1303E-05
Emx2os	3.0062E-09	-6.1683546	0.009	0.333	7.1303E-05
4930479D17R	3.1282E-09	-5.6274008	0.009	0.333	7.4198E-05
Kcnnb1	3.255E-09	-5.8497209	0.009	0.333	7.7206E-05
Acsn2	3.2623E-09	-4.6925914	0.092	1	7.7378E-05
Slc22a8	3.3869E-09	-5.7850201	0.009	0.333	8.0334E-05
Efnb2	3.5239E-09	-5.7231685	0.009	0.333	8.3585E-05
Fam151a	3.6664E-09	-5.7440719	0.009	0.333	8.6963E-05
Slc22a17	3.6664E-09	-5.7374754	0.009	0.333	8.6963E-05
Ccr6	4.1282E-09	-5.2935917	0.009	0.333	9.7916E-05
Sbk1	4.4498E-09	-4.5957496	0.036	0.667	0.00010555
Igf1bp3	7.8307E-09	-7.2430065	0.009	0.333	0.00018574
Ighd	7.8307E-09	-7.6386726	0.009	0.333	0.00018574
Zfp112	9.103E-09	-5.9562787	0.009	0.333	0.00021591
Nrxn2	9.4512E-09	-5.903094	0.009	0.333	0.00022417
Ifit1bl2	9.8123E-09	-5.9613288	0.009	0.333	0.00023274
Thsd4	1.0187E-08	-5.5394602	0.009	0.333	0.00024162
Emx1	1.0575E-08	-5.6852288	0.009	0.333	0.00025083
Erp27	1.0978E-08	-5.5167234	0.009	0.333	0.00026039
Hoxb3os	1.1396E-08	-5.4719666	0.009	0.333	0.0002703
Tmem184a	1.1829E-08	-5.4518555	0.009	0.333	0.00028057
Klk	1.3258E-08	-4.1942348	0.089	1	0.00031447
Slc13a3	1.4458E-08	-4.9456864	0.039	0.667	0.00034293
Habp2	1.7387E-08	-4.4705235	0.038	0.667	0.0004124
Hebp2	1.9834E-08	-6.6529403	0.01	0.333	0.00047043
Acyp1	2.304E-08	-4.9278986	0.04	0.667	0.00054648
Alpl	2.4028E-08	-5.0677201	0.04	0.667	0.00056992
Hykk	2.6122E-08	-5.1910039	0.04	0.667	0.00061958
Acaa1b	2.8226E-08	-5.2655575	0.042	0.667	0.00066949
Mfap1b	4.2719E-08	-4.9417756	0.042	0.667	0.00101326
Slc26a1	4.5834E-08	-6.6473949	0.01	0.333	0.00108713
Cttna2	4.5834E-08	-7.5329735	0.01	0.333	0.00108713
Pax5	5.0748E-08	-6.0890578	0.01	0.333	0.0012037
Bhlmt2	5.4305E-08	-5.8168301	0.01	0.333	0.00128805
Fads6	5.6172E-08	-5.6958086	0.01	0.333	0.00133235
Arhgef17	5.8102E-08	-5.5912266	0.01	0.333	0.00137812
Itga11	6.4285E-08	-5.351773	0.01	0.333	0.00152477
Pou3f3	1.3725E-07	-4.1384476	0.043	0.667	0.00325549
Tceal1	1.4411E-07	-5.2661754	0.011	0.333	0.00341823
Pah	1.5604E-07	-5.3389406	0.045	0.667	0.00370123
Sh3pxd2a	1.7077E-07	-5.1895804	0.048	0.667	0.00405048
Adam22	1.9539E-07	-6.4337873	0.011	0.333	0.00463456
Trpc1	2.2803E-07	-5.5570042	0.011	0.333	0.00540868
Eci3	2.3516E-07	-5.6000578	0.011	0.333	0.00557785
Gm553	2.4251E-07	-5.2741559	0.011	0.333	0.00575211
Mcrip2	2.482E-07	-4.3271329	0.046	0.667	0.00588705
Tmtc1	2.7418E-07	-5.1136935	0.011	0.333	0.00650327
Atad3a	3.3542E-07	-3.6228095	0.11	1	0.00795578
Hnf1a	4.017E-07	-5.7109883	0.012	0.333	0.00952788
Nlrp6	4.1374E-07	-5.6110963	0.012	0.333	0.0098136
Cd276	4.6551E-07	-5.481515	0.012	0.333	0.01104135
Cyp4a10	4.9368E-07	-5.5098705	0.012	0.333	0.01170952
Catsperb	7.3544E-07	-5.8907744	0.012	0.333	0.01744401
Cacna1e	7.7827E-07	-4.9537728	0.012	0.333	0.01845971
Gm29642	7.7827E-07	-5.5261761	0.012	0.333	0.01845971
Filip1	7.7827E-07	-5.6816707	0.012	0.333	0.01845971
AK5	8.0057E-07	-5.5057535	0.012	0.333	0.01898869
Bco2	8.0057E-07	-5.4238868	0.012	0.333	0.01898869
Gm47232	8.4703E-07	-5.3540083	0.012	0.333	0.02009079
Tmem52b	1.1243E-06	-4.0918272	0.051	0.667	0.02666664
Angptl7	1.2839E-06	-5.7541071	0.013	0.333	0.03045323
Aqp6	1.2839E-06	-5.4523971	0.013	0.333	0.03045323
Col4a3	1.2933E-06	-4.005847	0.052	0.667	0.03067461
C030034L19R	1.3556E-06	-5.483397	0.013	0.333	0.03215332
Cyp2j5	1.4296E-06	-4.0282777	0.129	1	0.03390978
Tmem119	1.4704E-06	-5.200909	0.013	0.333	0.0348757
Klf15	1.4704E-06	-5.1995307	0.013	0.333	0.0348757
Mrps2	1.4995E-06	-4.1896363	0.053	0.667	0.03556626
Agmo	1.8361E-06	-6.120732	0.013	0.333	0.04355107
Pbin5	1.885E-06	-6.4097398	0.013	0.333	0.0447112
Notch4	1.9352E-06	-5.49586	0.013	0.333	0.045901
Gm47272	1.9352E-06	-5.6963978	0.013	0.333	0.045901
Slc34a1	2.0376E-06	-5.637604	0.151	1	0.04832905
Dpf3	2.0394E-06	-5.4908862	0.013	0.333	0.04837249
Dlg5	2.0935E-06	-5.3639751	0.013	0.333	0.04965569

Table S2: Results from differential gene expression TCMR vs. Control

Leukocytes

*This Fold Change was calculated between [BALB/c to C57BL/6] and [BALB/c to BALB/c]

Gene upr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj	Gene downr.	p_val	avg_log2FC*	pct.1	pct.2	p_val_adj
H2-K1	5.8695E-08	2.74333693	0.997	0.818	0.00139218	Mgl2	1.1598E-73	-10.9637804	0	0.364	2.7508E-69
B2m	7.4614E-08	2.38394139	0.997	0.909	0.00176976	Hs3st3a1	1.2291E-55	-9.59054544	0	0.273	2.9154E-51
Ly6a	2.9787E-07	5.52768686	0.907	0.091	0.00706514	Ptchd1	1.851E-47	-7.26705269	0.009	0.545	4.3904E-43
Cd52	7.2043E-07	3.11873728	0.962	0.545	0.01708786	AC157583.2	5.6145E-42	-8.59173365	0.001	0.273	1.3317E-37
Tmsb4x	1.0805E-06	2.14997566	0.999	1	0.02562784	Ces1e	8.467E-42	-7.23699082	0.001	0.273	2.0083E-37
Igfp1	1.6629E-06	6.54935092	0.837	0	0.03944127	3110035E14Ri	1.2612E-37	-8.72197393	0	0.182	2.9915E-33
						Gm30411	1.2612E-37	-8.91565342	0	0.182	2.9915E-33
						Slco2b1	5.5958E-37	-5.75479155	0.013	0.545	1.3273E-32
						Tpbgl	1.0879E-29	-6.00827184	0.007	0.364	2.5803E-25
						Plxna4	3.6226E-29	-7.33299037	0.012	0.455	8.5924E-25
						Adam22	6.7798E-29	-5.12799693	0.012	0.455	1.6081E-24
						Angptl7	1.0932E-25	-5.42690187	0.022	0.545	2.5931E-21
						Slc34a3	1.9815E-25	-7.95097707	0.001	0.182	4.6998E-21
						Mmp12	1.9815E-25	-7.66952357	0.001	0.182	4.6998E-21
						Gm26870	1.2088E-23	-5.98350988	0.037	0.636	2.8672E-19
						Abca9	1.4946E-22	-5.07104898	0.066	0.818	3.545E-18
						Cacna1a	7.5659E-22	-6.66095964	0.028	0.545	1.7946E-17
						Dnase1	3.8719E-20	-5.02769068	0.02	0.455	9.1837E-16
						Prkag3	2.5901E-19	-6.61505635	0.002	0.182	6.1435E-15
						Asgr2	2.5901E-19	-7.31123733	0.002	0.182	6.1435E-15
						Corin	3.1086E-19	-6.26750415	0.002	0.182	7.3734E-15
						Mrc1	3.2605E-19	-4.18745713	0.077	0.818	7.7337E-15
						Dnm1	3.4051E-19	-5.6355982	0.002	0.182	8.0766E-15
						Igfbp3	1.0587E-18	-4.58127806	0.032	0.545	2.5112E-14
						Lsamp	3.5569E-17	-7.97851217	0.025	0.455	8.4366E-13
						Myo16	1.2414E-15	-6.53396167	0.003	0.182	2.9446E-11
						9330185C12Ri	1.5449E-15	-5.8571662	0.003	0.182	3.6643E-11
						Gm20605	1.5449E-15	-5.87072397	0.003	0.182	3.6643E-11
						9430037G07R	1.5449E-15	-6.00478358	0.003	0.182	3.6643E-11
						Chrna4	1.6614E-15	-5.75004354	0.003	0.182	3.9407E-11
						Slc22a17	1.6891E-15	-4.8740164	0.009	0.273	4.0064E-11
						Smc2os	1.9211E-15	-5.53848841	0.003	0.182	4.5566E-11
						Hsd3b2	5.7017E-15	-4.57594092	0.018	0.364	1.3524E-10
						Gm15155	2.3939E-14	-5.1062757	0.01	0.273	5.6781E-10
						Lilra5	3.2462E-14	-4.71843759	0.031	0.455	7.6997E-10
						Gpc6	3.2814E-14	-4.46537377	0.01	0.273	7.7832E-10
						Hsd3b3	3.7283E-13	-4.5041888	0.011	0.273	8.8431E-09
						Ltbp1	3.8124E-13	-7.35061299	0.004	0.182	9.0427E-09
						Ctsf	3.8124E-13	-5.99510744	0.004	0.182	9.0427E-09
						Klhl13	4.5727E-13	-5.42320428	0.004	0.182	1.0846E-08
						Gm15318	4.8579E-13	-5.4280947	0.004	0.182	1.1522E-08
						Zfp599	1.3651E-12	-4.37845797	0.022	0.364	3.2378E-08
						Cpne8	2.1217E-12	-4.49091059	0.012	0.273	5.0324E-08
						Clec4b1	2.5045E-12	-4.5593749	0.023	0.364	5.9403E-08
						Clmp	1.2265E-11	-4.87843053	0.04	0.455	2.9091E-07
						Zfp395	2.4847E-11	-3.63606238	0.108	0.727	5.8934E-07
						Esrp2	2.558E-11	-5.22143511	0.006	0.182	6.0673E-07
						Fbxo17	2.837E-11	-5.05059584	0.006	0.182	6.7291E-07
						Sobp	2.837E-11	-5.16140133	0.006	0.182	6.7291E-07
						Fgf9	2.9875E-11	-4.91808376	0.006	0.182	7.086E-07
						Sfi1	3.1924E-11	-3.83828197	0.34	1	7.572E-07
						Gm15700	3.4873E-11	-4.36911984	0.006	0.182	8.2716E-07
						Gm36423	6.6157E-11	-4.98948032	0.014	0.273	1.5692E-06
						Cyp2d26	7.8294E-11	-4.39355391	0.014	0.273	1.857E-06
						Tek	1.0677E-10	-3.83193441	0.027	0.364	2.5326E-06
						Col14a1	2.175E-10	-4.51847434	0.044	0.455	5.159E-06
						O610040J01Ril	2.7991E-10	-3.41484251	0.088	0.636	6.6392E-06
						Dennd2c	2.9136E-10	-4.63548397	0.015	0.273	6.9107E-06
						Cbr3	2.9136E-10	-4.68531867	0.015	0.273	6.9107E-06
						Gas7	4.0761E-10	-2.60272272	0.115	0.727	9.6682E-06
						Reps2	4.2977E-10	-4.69579423	0.046	0.455	1.0194E-05
						Slc22a22	5.7781E-10	-5.22030368	0.007	0.182	1.3705E-05
						Cndp1	6.6158E-10	-4.41288586	0.007	0.182	1.5692E-05
						Itga9	7.0842E-10	-4.05874834	0.139	0.727	1.6803E-05
						Cfh	1.399E-09	-3.55452963	0.18	0.818	3.3184E-05
						Zbtb16	2.0418E-09	-4.38181922	0.032	0.364	4.8431E-05
						Ces1f	2.072E-09	-4.48653107	0.031	0.364	4.9147E-05
						Stau2	2.7941E-09	-3.60938687	0.05	0.455	6.6273E-05
						Slc5a12	4.4503E-09	-3.45795306	0.032	0.364	0.00010556
						Spp2	7.1179E-09	-4.46810238	0.008	0.182	0.00016883
						Cped1	1.0651E-08	-3.46763197	0.034	0.364	0.00025264
						Zfx3	1.0757E-08	-2.97635313	0.268	0.909	0.00025514
						Dab2	2.5621E-08	-3.17795696	0.274	0.909	0.00060771
						Ankrd39	3.1415E-08	-3.74196034	0.02	0.273	0.00074514
						Eps8	3.2644E-08	-2.88279953	0.168	0.818	0.00077429
						Acmsd	3.7989E-08	-4.39137806	0.021	0.273	0.00090106
						Tgfb2	4.1454E-08	-4.81087424	0.009	0.182	0.00098325
						Cyp2e1	4.1454E-08	-4.60035637	0.009	0.182	0.00098325
						Rhcg	4.2975E-08	-4.51197423	0.009	0.182	0.00101932
						Gm5086	4.3338E-08	-4.5981935	0.039	0.364	0.00102793
						4930440I19Ril	4.6181E-08	-3.9482094	0.009	0.182	0.00109536
						Gm32828	4.9618E-08	-3.96520644	0.009	0.182	0.00117688
						Acss3	5.3302E-08	-3.76391794	0.009	0.182	0.00126428
						Asb2	7.6275E-08	-3.38360726	0.084	0.545	0.00180916
						Adgrl3	7.9031E-08	-5.3390364	0.022	0.273	0.00187454
						Cd33	1.1237E-07	-4.14729068	0.04	0.364	0.00266536
						Gatm	1.1872E-07	-3.34712505	0.272	0.909	0.00281589
						Tmem102	1.6479E-07	-5.19899095	0.01	0.182	0.0039087
						Trim65	1.7599E-07	-4.72377142	0.01	0.182	0.00417442
						Mef2c	1.7858E-07	-3.51174481	0.241	0.818	0.00423568
						Scnn1b	1.8793E-07	-4.63747693	0.01	0.182	0.00445756
						F8	2.0711E-07	-4.38617094	0.023	0.273	0.00491251
						Gm29554	2.2863E-07	-3.92891148	0.01	0.182	0.00542286
						Slc22a30	2.2863E-07	-4.20585761	0.01	0.182	0.00542286

A1cf	2.3619E-07	-4.1193523	0.01	0.182	0.00560225
Gm26779	2.5205E-07	-3.43380634	0.01	0.182	0.00597838
Tle1	3.2806E-07	-2.84321543	0.096	0.545	0.00778126
Ifi44l	3.5581E-07	-3.03691145	0.041	0.364	0.0084394
Zfp704	3.652E-07	-3.45143197	0.067	0.455	0.00866207
Pparg	4.257E-07	-3.41361743	0.094	0.545	0.01009716
lqcg	4.4709E-07	-2.72943458	0.023	0.273	0.01060462
Ppp1r9a	4.791E-07	-5.43762182	0.025	0.273	0.01136374
Tanc2	5.7717E-07	-4.1788808	0.2	0.727	0.01368991
Cspg4	6.8496E-07	-4.73394563	0.011	0.182	0.01624666
1700112D23R	8.1965E-07	-4.09559671	0.011	0.182	0.01944118
Il1rl2	8.4444E-07	-3.97847685	0.011	0.182	0.0200293
Ntpcr	8.7379E-07	-2.50689463	0.125	0.636	0.02072545
Large1	1.0335E-06	-2.31916736	0.127	0.636	0.02451341
Gm10603	1.0394E-06	-3.30837428	0.011	0.182	0.02465299
1700025G04R	1.0873E-06	-2.387905	0.271	0.818	0.0257903
Plxdc2	1.1076E-06	-3.83598426	0.246	0.727	0.02627147
Slc5a2	1.4472E-06	-3.5071714	0.046	0.364	0.03432669
Wdpcp	1.5747E-06	-3.48201719	0.075	0.455	0.0373506
Gm4117	1.6384E-06	-2.31547242	0.097	0.545	0.03886164
Fam46a	1.7848E-06	-2.53553561	0.186	0.727	0.04233357
Ttr	1.8886E-06	-5.33852704	0.012	0.182	0.04479539