

Table with 11 columns: Gene Name, Gene ID, P-value, Log2(FC), NegLog10(P), Log2(FC), NegLog10(P), Log2(FC), NegLog10(P), Log2(FC), NegLog10(P). Rows include genes like Ptp, Csf1r, Fgfri3, Dcaf1, Atp8b4, multi, Ehd4, Mir7042, Rn1, Cox11, Atp6ap2, Tlr8, Skega8, Stk10, Atg4b, Lpcat2, Psmf1, Fam19a3, Vamp2, Zfp831, Usp15, Fboxo2, Bmpr2, Fhnp1, Tead1, Ndr1, Cpxo, Tpd52, Gm1015, Dusp11, Stat4, Narg, Mrm2, Ndr1, Ha-Aa, Ptkcd, Zkscan3, Xcl1, Lamtor4, Chfr, Clec2d, Usp3, Pkg1, Sntb2, Lrcr1, Tmem45a, Tyk2, multi, Mir6391, Zfp472, Gm10914, Cpm, Epb41, Pbxp1, Pigv, Hsh2d, Rnuai1, Tmem141, Chp2, Ldlrad4, Nij1, Dcn, Vps13a, Kna3, Phpp3, Mbnl2, Stp4, Thai, Pmpca, Ddx24, Rgs16, Gm1966, Zfp260, Sfb3b1, Glp1r, Ctl, Foxo1, Zswim1, Ifi202, Mif3, Ora3, Wrap73, Prg2, Mir151, Rnuib6, Utp15, Cd9, I810018F18R1, BC065397, Ctnb2p2n1, Teaz3, A323005P2ol, Thg3, Mir28c, Zfp329, Map3k8, Prom1, Skicr04, Serine2, Trim65, Apeh.

Table with multiple columns containing gene symbols (e.g., Zmynd15, Fam53b, multi) and numerical values. The table lists various genes and their associated numerical data points across multiple rows.

Table with 12 columns: Gene Name, Correlation Coefficient, P-value, and 9 other numerical values. Rows include genes like Cmh, Gm4532, Tdf712, Adgre1, Pknox2, Reg3g, Mir30a, Cstsd, Plscr1, Chrac1, Mblac2, Mkl1, Zfp715, Rhms3, Nrhp2, Fastk, Usp39, Mir6949, Pitpnm1, Penx2, Gm19703, Pak1, Cdh6, Gm24148, Lyr86, Trim15, Fosb, Arhgap15os, Fcyl1, Mir455, Ilarg, Myebp2, Micall1, Hnmpul1, Card11, Krtap7-1, Mir7006, BC051226, Rhdhd2, Disg1, Pigk, Pms2, Latz2, Lmtk2, Rikz2, Dock8, Fbn1, Etv6, Vmn2r98, multi, Ut6, G230400D17, Hps3, Vsr, multi, Lyn, Vipr1, Aqp1, Pxdn, Ephb2, Cd247, Ez30001N04, Sec2b, Kif2b, Mir6899, Dirc2, Klfk1b9, Slit3, Gm16630, Parva, Ctsk, Xlr4a, Gemin7, Birc6, Rftn1, Ice2, Ick, Mir1912, Wfdc17, Plkb2, Mir1957a, Rbp1, Trak2, Ltb, Lifr, Mir5125, Sbk1, Fhlb2, Sh2d3c, Tap1, Smpd2, Sppl3, Mir483, Pigr, Ifi121, Mir5713, D430042009, 110008F13Ri, Oc4d2, Nectin2, and Whsc1l1.

Table with 13 columns containing gene names and numerical values. The table lists various genes such as Rad18, Wbscr27, Sh3glb1, Gimap5, Gm8297, Skc3910, Ofri10a5, Tm2d3, Crbn, E430025E21l, Ctdspl2, Meaf6, Lncpint, Zwio, Gimap4, Gm2663, Bmp2k, Gm5934, Bdl1a, Jfb, Akr1c13, Gm3278, Pdss2, Wldc47, Rubcnl, Gm8050, Gm14295, Pflhb, Smad4, Rnasel, Manta, Spag9, Skc389, Mclt2, Zfp955a, Lys, Arhgap15, Tmem54, Sme3, Mirt1, Mir1073, Gm5797, Trpm7, Carr1, Prpf38b, Lys9, Reg3b, Reg2, Vmn1r120, Wsch1l, Rbl2, Chst4, Chst2, Gm2030, multi, 2310058D17R, Dhrs11, Gm10377, Bin2, C4b, Mrpl16, Usb1, Gm19816, 4930572O03l, Mpkip, Madd, Herc3, Twf1, LOC10086161, Vps13b, Exos8, Vmn2r1, Mir142, Saraf, Dcaf15, Sfln2, Ddx17, Gm2964, Ubt2, Cd5, Akrlb10, Vmn1r2, multi, Add3, Ngdn, Pmt2d, Mei, Gm3676, Tram1, Ubezf, Cd48, Srsf10, multi, Pstk, Skg9a, Gnt3, Rsl24d1, Crsp2, Tspal1, Gm10941, and Cdc27.

Table with multiple columns containing gene names (e.g., multi, Lrrc66, 0610030E2ol) and numerical values. The table lists various genes and their associated values across multiple rows.

Snx12	-0.6780001	6.24675077	0.01223366	0.18104721	6.30714047	6.60384825	6.84626371	5.95928224	6.13997145	5.6239985
Rhm18	-0.5819537	5.65163925	0.01224653	0.18105112	5.97432582	6.5594995	5.29402298	5.39433269	5.62283985	5.06481469
Gas6	0.44316345	4.86401488	0.01224968	0.18105112	4.67909512	4.5919346	4.65626973	5.18444297	5.06709771	5.00524913
Atp10b	0.45479496	3.88865654	0.01226084	0.18107556	3.70186323	3.61302118	3.66889278	4.10649534	4.21014376	4.03152297
Mir6995	0.462352	6.99217067	0.01226709	0.18107556	6.88033946	6.68023815	6.7224064	7.43525418	6.97378143	7.26100441
Lymr2	-0.6501121	5.39587527	0.01229121	0.18131509	5.93116577	5.7400485	5.49157974	4.78109327	5.42954109	5.00182323
Prps1	-0.6572574	8.32858282	0.01231572	0.18144367	8.49645301	9.44169231	8.03348932	7.65053735	8.45815851	7.89116643
Mina	-0.5101626	5.74695493	0.01231243	0.18144367	6.01818447	5.96413868	6.02378549	5.34804596	5.33078395	5.79679102
Gpr55	0.45091459	4.52630556	0.01234801	0.18172059	4.49268399	4.15042289	4.25943791	4.95762195	4.47985572	4.81781019
multi	-0.8530286	8.8246946	0.01235033	0.18172059	9.31422366	9.21557705	9.22382591	7.68868647	8.69238818	8.81346631
Cntr2	0.48445108	5.880217	0.01236685	0.18184724	5.60539485	5.7711062	5.53747332	6.1410523	6.0363457	6.1908296
Mdm4	-0.7066864	6.42862371	0.01243947	0.18188758	6.72922995	7.06541013	6.55126072	5.48535477	6.41463659	6.32585013
Fam46b	0.44862344	4.89411847	0.01239178	0.18188758	4.6957604	4.62494881	4.68871105	5.26068386	4.97474256	5.11986416
multi	0.5679226	5.61818225	0.01240634	0.18188758	5.60362432	5.05843296	5.34060556	5.80378002	5.91906519	5.98358542
Mir6244	0.49865789	3.17382045	0.01244082	0.18188758	3.03195204	2.95272648	2.78717601	3.71039727	3.19555961	3.36187131
Stard3	-0.4650114	6.24408191	0.01240299	0.18188758	6.45020122	6.73350524	6.24605645	5.92794931	6.14903597	5.95774329
Pap0g	-0.4486618	6.1472426	0.01242533	0.18188758	6.53113002	6.24089605	6.34324042	6.12192982	5.66826857	5.97088271
Spz1	0.46539369	3.63377318	0.01242441	0.18188758	3.22360618	3.50367663	3.47594709	3.86725269	3.84857958	3.88354429
Gramd3	-0.6313661	9.02295992	0.01241889	0.18188758	9.17323765	9.23420533	9.30578595	8.05607166	8.85269285	8.91036607
Ptari	-0.6092235	5.86649055	0.01242925	0.18188758	4.68887782	5.59886508	6.42556399	5.45330121	5.0691924	6.1631428
Dhrs3	0.46222543	5.09582888	0.01248291	0.18215536	4.97722712	5.45683815	5.10134522	5.60406021	5.88595273	5.43207105
Snm18	0.51414469	6.22274059	0.01248123	0.18215536	3.28580693	2.4188321	2.29236571	3.19251913	2.75455171	2.69236797
Paxbp1	-0.464886	5.55595891	0.01248144	0.18215536	5.68829707	5.82967418	5.84723442	5.21516045	5.52623459	5.22915277
Cers6	0.67320418	4.8538714	0.01252232	0.18261446	4.38874952	4.58296079	4.57993561	5.23588647	5.61801324	4.71735874
Ing3	-0.6488104	5.54335094	0.01253862	0.18271093	5.98022993	5.90365418	5.71938434	4.83292872	5.60842313	5.21548536
Gknt	0.71705274	6.07800979	0.01256073	0.18271093	4.82051762	4.52562228	4.81231037	4.97317328	5.71721531	5.6192199
Vps35	-1.0768666	6.20921889	0.01255304	0.18271093	5.82067946	7.18170398	7.2405731	4.72525741	7.01857641	5.26850509
Gm4297	-0.60548981	3.31317895	0.01255995	0.18271093	3.74511452	2.70802946	2.57815815	3.94182698	3.35516178	3.55078281
4930523Cort1	0.0027482	8.20738288	0.01257135	0.18274081	8.232291033	8.23451522	8.52891242	6.31891797	7.9453597	7.72381588
Polb	-0.4668732	5.17492763	0.01258376	0.18277979	5.25492916	5.29758106	5.67271745	4.78435262	4.66819077	5.37206474
4.5819078	3.71935049	0.01258932	0.18277979	3.22896456	3.66427632	3.7752442	3.81629192	3.96959772	4.05944793	
Tmem183a	-0.6426266	6.59104457	0.01260062	0.18282852	6.4568614	7.36093482	6.9219778	6.16749347	6.22906721	6.41533271
Stim1	-0.5319049	6.0118675	0.01262628	0.18303609	6.91705511	7.06155912	7.52580333	6.58265957	6.66065378	6.6923896
Rfank	-0.4755886	6.67639485	0.01263087	0.18303609	6.70759826	6.95578945	7.07918868	6.43467333	6.32010097	6.56102745
Tagln2	-0.5274651	8.01446194	0.01266714	0.18304584	7.99157831	8.37455425	8.46845087	7.22466013	8.15501704	7.87251105
Wdr12	-0.5200805	6.1344026	0.01273273	0.18304584	6.30045079	6.46282565	6.61559204	5.92016427	5.97766423	5.78258586
Gstm2	0.5751876	4.20531192	0.01268674	0.18304584	3.88726644	3.96928103	3.89770593	4.47691809	4.88776747	4.11462161
Omai	-0.539537	6.15091988	0.01271642	0.18304584	6.33752798	3.99915492	6.52450725	5.73361471	5.59937456	6.31133988
Tubgcp5	-0.5862648	4.94303494	0.01272768	0.18304584	5.16549104	5.32819779	5.01481312	4.26693838	4.84643071	4.8333386
Rhoxf3	0.62671616	4.0662418	0.01272579	0.18304584	3.83781579	3.78635098	3.63444838	4.28600753	4.1125456	4.74018652
Ppil4	-0.7227163	5.91786457	0.01264703	0.18304584	6.19990294	5.90382569	6.73393953	4.95616523	5.72538243	5.98797158
Taar4	0.49819199	3.34610441	0.01269737	0.18304584	3.17008238	3.14381714	2.97723372	3.84045743	3.37975581	3.56527998
Dctn2	-0.4427147	5.9679291	0.01273794	0.18304584	6.0117402	6.21112228	6.03500689	5.57583616	6.17209182	5.91949242
C230021G24	0.59307207	4.27625116	0.01271404	0.18304584	4.06603801	4.07033547	3.80277188	4.83142568	4.2373001	4.65420589
Dgka	-0.6973711	9.81249341	0.01274304	0.18304584	10.0410184	10.1703284	10.2703245	8.79379804	9.92076626	9.67689927
Dnaj3	-0.4822923	7.20052771	0.01270649	0.18304584	7.42048753	7.23402129	7.67051269	6.89781054	6.96935207	7.01098213
Rasgfp3	-0.5375137	4.04440415	0.01273118	0.18304584	4.08174447	4.81969069	3.94804791	3.64149591	3.94908746	3.64635849
Nudt22	0.43590197	6.2748505	0.01273012	0.18304584	6.02451954	5.87132444	6.27485457	6.52708285	6.30599359	6.64572802
Gini	-0.5335754	4.2901528	0.012785	0.18313143	4.62004868	4.55102076	4.49945545	3.7630472	4.25963868	4.04729983
Ube2l6	0.44320374	5.1439328	0.01282264	0.18313143	4.96169181	4.84851324	4.95576734	5.1532369	5.27071252	5.30955497
Cst7	-0.4454258	8.10524757	0.01278665	0.18313143	8.55728864	8.09554809	8.33104465	8.18401482	7.52533639	7.93825281
Ciao1	-0.4675418	5.62041134	0.01282087	0.18313143	5.77259111	5.62018455	5.98911256	5.24290184	5.55256716	5.39444285
Fermt1	0.59570238	3.39211407	0.01279641	0.18313143	3.12123602	3.12969977	3.03185286	3.78475428	4.06704002	3.2181015
multi	-0.5210721	6.11706785	0.01282525	0.18313143	6.07750667	6.31865641	6.73667568	5.77688156	5.88128533	5.91145543
2210016L21R	-0.4918149	6.33636886	0.01275927	0.18313143	6.46529383	6.53479042	6.79846469	6.20593355	6.01562321	6.0151474
multi	-0.509931	6.74124358	0.01282424	0.18313143	7.00553348	6.77663949	7.20195432	6.36826057	6.55616448	6.53890914
Arid4a	-0.4722649	6.96608766	0.01278645	0.18313143	7.21262397	7.1715971	7.20623932	6.33315512	6.82407069	6.81644336
Ofir184	0.84231903	2.67304779	0.01282868	0.18313143	2.27786176	2.21195614	2.26584694	3.88862513	2.72455668	2.66944012
Gnpnatt1	-0.706121	5.51821501	0.01284938	0.18313143	5.41942638	5.46803253	5.82725863	4.25868558	4.65434838	5.68332048
Ufl1	-0.5894248	5.53555486	0.01287521	0.18334019	5.59181081	6.13887545	5.76011553	5.02496559	5.91046899	4.78709287
Iqgap1	-0.5108464	3.69090919	0.01286894	0.18334019	8.56523717	8.5863913	8.72191169	7.84765741	8.3616287	8.1317176
Crem	0.5459432	3.92198019	0.01287069	0.18334019	3.71529282	3.82304835	3.40933791	4.02920731	4.24696311	4.30801161
Fam129a	0.4885992	5.67100097	0.01295699	0.18337683	6.14467788	5.92002325	5.68120063	5.83020638	5.19849899	5.22858436
Mga	-0.6100039	6.1732505	0.01295699	0.18337683	6.68710966	6.24546707	6.50218061	5.66426235	6.02372757	5.91675592
Ptptrto	0.44207315	4.90253749	0.01295284	0.18337683	4.77748254	4.62477348	4.64224671	5.20727947	4.97243557	5.19100715
Nub1	-0.5573786	6.42724686	0.01289852	0.18337683	6.56950087	6.47497957	6.67332801	6.30637914	6.3778996	5.76139395
Igkb3	0.47403817	4.99970408	0.01292592	0.18337683	4.86512726	4.68232797	4.74059975	5.41289221	5.29537444	5.00190283
Crip1	-0.4918499	8.77184302	0.01295452	0.18337683	8.88501142	8.93382696	9.23446551	8.49482264	8.59636892	8.4865627
Tecn	1.54938076	2.88503637	0.01291092	0.18337683	2.07227757	2.14552142	2.11323899	3.43498869	2.42404028	5.12015128
5.0476131	5.26168325	0.01291117	0.18337683	5.5105643	4.59379811	4.92354538	5.73381378	5.2065817	5.6017	

Tigar	-0.4538723	5.54718473	0.01341986	0.18566109	5.68197807	5.89403442	5.74635015	5.39957899	5.36004991	5.20111685
Brd7	-0.4806724	6.45441959	0.0134076	0.18566109	6.15551828	7.20596408	6.72278498	5.88163039	6.51405992	6.2465599
Skv760s	-0.4733793	5.91354975	0.01338872	0.18566109	6.4677908	6.05676544	5.92616193	5.77068593	5.69219398	5.56770041
Wldc48	0.46197266	3.66903527	0.01338352	0.18566109	3.4717181	3.44740103	3.51993397	3.95214273	3.95129788	3.79662418
Gpatch2l	-0.5975313	5.72176455	0.01341652	0.18566109	5.67273972	6.28910755	6.09974606	5.52659714	5.45625323	5.28614358
Tmem251	-0.6873906	5.16320096	0.01343403	0.18566109	5.55059178	5.36218081	5.60791447	4.30435828	5.09183316	5.06232367
Foxq1	0.43147317	4.39599583	0.01340515	0.18566109	4.26290566	4.24154943	4.03632264	4.61689064	4.69389142	4.52441519
Xp04	-0.463755	5.41086666	0.01338185	0.18566109	5.18994169	6.02940165	5.70888919	4.86554956	5.61898396	5.05243388
Satb1	-0.823986	8.13069884	0.01338472	0.18566109	8.31349143	8.55794904	8.75663508	6.78512477	8.32907693	8.0419158
Eif3a	-0.5422822	7.39531943	0.01340356	0.18566109	7.42194665	8.10884499	7.46858995	6.53939108	7.62991164	7.20323137
Olfir1371	0.55845038	5.97514368	0.01345623	0.18566109	5.6156819	5.93871421	5.53335936	6.37757106	6.10718375	6.27835179
4930562A09l	0.44649209	5.40191953	0.013486	0.18566109	5.24995662	5.02749433	5.25886951	5.72360376	5.58733781	5.56455515
Gm8615	-0.5300039	5.70281545	0.01348097	0.18566109	5.71981098	6.26108839	5.92165281	5.49307653	5.71637259	5.10399142
Lsm1	-0.5227463	4.80129761	0.01350176	0.18566109	4.94874381	5.17881411	5.06045437	4.59245322	4.32741286	4.69990727
Mpr522	-0.5270302	5.24217795	0.01348448	0.18566109	5.49276389	5.43615849	5.58815685	4.79319827	5.24530565	4.89748457
multi	0.58328742	4.21292622	0.01349451	0.18566109	3.93152133	3.74793577	4.08439044	4.52154715	3.95491822	5.03724443
Olfir1012	0.46966341	3.1942658	0.01351497	0.18566109	3.1942658	3.28510258	3.09919122	3.60953039	3.25597846	3.42178367
Gpc3	0.45906424	3.62312477	0.01335415	0.18614928	3.38021532	3.35558997	3.44497267	3.73818662	3.72651965	4.09326441
Algu1	-0.8468967	5.82488367	0.01334812	0.18622993	6.34213928	6.66938455	5.73347223	4.84856476	5.75333776	5.60240344
Zranb2	-0.453601	5.29759633	0.0135617	0.18630512	5.39290074	5.70453823	5.47575148	5.08953199	5.09637434	5.03008163
Gm13212	-0.4662534	7.1977927	0.01364771	0.18737479	7.49942949	7.7364815	7.41964032	6.8243702	7.03834813	7.03129396
Card11	-0.4841822	7.05960112	0.01355914	0.18741974	7.15677185	7.30800206	7.44030271	6.52190931	7.0761661	6.85445472
Hist1hgh	0.46882273	5.0337067	0.01367796	0.1874741	4.88961288	4.58851037	4.91976274	5.57589071	4.93339684	5.29506663
Ppil2	-0.9617148	7.31239596	0.01368758	0.1874741	8.17430458	7.4751919	7.73025706	6.47755355	7.37784398	6.63915701
Ilorb	-0.4524795	7.7995879	0.0136813	0.1874741	7.84161892	8.01861095	8.21745667	7.26913815	7.73457314	7.71654588
Psma3	-0.4510072	8.00248246	0.01369756	0.18749917	8.10322492	8.36228502	8.21844817	7.73620583	7.9967463	7.59816451
Bzga3	-0.603023	6.42925447	0.01372766	0.18779925	6.87646461	6.46937177	6.85736147	6.17411966	6.30010189	5.91089035
Bcr	-0.5904056	5.76269991	0.01375741	0.18809431	5.81334236	5.98787359	6.37249215	5.62381574	5.36591035	5.41276528
Klei1	-0.5871414	3.45222816	0.0137937	0.18830229	3.45078739	3.67985732	4.10675192	3.29491508	2.95801511	3.22304213
Mets1	-0.6252911	5.25873778	0.0137972	0.18830229	5.60130211	5.21073375	5.90211407	4.60834519	5.06130101	5.16863053
H2-Ebh1	-0.6886046	7.51948431	0.01379028	0.18830229	7.41079408	8.22905114	7.95151454	6.68173742	8.06839137	6.77487731
Prr15	0.43783749	4.13944474	0.01383353	0.18868611	3.99085307	3.88101446	3.88971047	4.36462603	4.44541133	4.26505311
Cd46	-1.0356968	3.55934591	0.01388775	0.18927101	3.72952041	4.95270078	5.34036175	2.8986604	2.94503858	3.28077757
Olfir661	0.4729492	3.4541278	0.01389289	0.18927101	3.20016325	3.23903793	3.21375841	3.77048141	3.47990357	3.81242223
Tpx2	0.47349533	4.46754209	0.01391193	0.18930609	4.27455857	4.42214348	3.99568121	4.98147984	4.76465635	4.366773307
Cdcg7l1	-0.923475	5.64300419	0.01390609	0.18930609	5.80564035	5.56467993	5.91390473	5.15911411	4.81658998	5.59806602
Gm9994	0.63267849	4.73976979	0.01393365	0.18946595	4.31598166	4.38363293	4.57067704	5.09328444	5.42931822	4.73518444
49333409K07l	0.56463157	4.12520477	0.01395666	0.18946595	3.90793637	3.93684504	3.68388555	4.73019569	4.09871968	4.39361641
Qtich1	-0.4564087	6.99369177	0.01395603	0.18946595	7.20474736	7.30323642	7.15767753	6.5581765	6.92733495	6.81095083
Gpd1l	-0.4323191	6.34154223	0.01394773	0.18946595	6.44881675	6.485214	6.73907464	6.05122545	6.12218978	6.20273278
multi	-0.5234718	6.02037757	0.01396703	0.1894948	6.3008465	6.34752996	6.19796403	5.44729469	6.04970647	5.77892338
F3	0.56250961	3.60239345	0.01398273	0.18950597	3.08621138	3.34860338	3.52920593	3.39739657	4.28457102	3.76959936
Dock2	-0.475345	3.92667857	0.01398434	0.18950597	4.41593224	5.36331395	9.71380695	8.81808529	9.27640971	9.2752327
Shl1	0.742197524	2.86487536	0.01400355	0.18954389	2.93680086	3.20355663	2.22417328	3.18726236	3.69425759	3.82640244
Zfp935	-0.4717676	6.04901053	0.01400303	0.18954389	6.08567845	6.38167648	6.38732813	5.49099811	5.80139156	6.11699405
Camsap2	-0.4374899	5.0993203	0.01406396	0.18986717	5.81875466	5.5314491	5.50888272	5.25508273	5.18993704	5.10154142
Mgme1	0.45627634	5.32864015	0.01406606	0.18986717	4.9070161	4.91859082	5.47598001	5.51165016	5.40717577	5.75150904
2810403A07R	-0.5357917	7.0567723	0.01405283	0.18986717	7.37083173	7.2669217	7.34075105	6.57548302	7.08246176	6.70418454
Ptp42	-0.4722577	9.1699676	0.01406882	0.18986717	9.48533277	9.39916435	9.33379229	8.81334374	9.13235732	8.8552754
Mms19	-0.5802193	6.17145987	0.01403722	0.18986717	6.28928065	6.59225597	6.50317196	5.98982475	5.58493147	6.06929441
6-Mar	-0.7271809	6.1593056	0.01407862	0.18988788	5.97853047	6.37954163	7.21061603	5.02122166	6.27027541	6.01474789
Ndufa8	-0.5085985	7.7192841	0.01411003	0.19019986	8.09187337	7.89828749	7.93058859	7.41437277	7.7011159	7.27947088
Platr5	0.49423999	5.73502814	0.01412667	0.19020772	5.53232914	5.111711	5.42022421	6.22822419	5.73205208	5.98617084
Rbm27	-0.4878707	8.8611724	0.01412716	0.19020772	7.08369586	7.56064935	6.67247751	6.50199798	6.9006756	6.45080715
Olfir1512	0.42830066	3.62844813	0.0141185	0.19029404	3.53572095	3.32971421	3.37745821	3.93012218	3.84933511	3.74833808
Klikb19	0.44593082	4.11489125	0.01415452	0.19035308	4.04937409	3.8187668	3.80763662	4.35632812	4.49039303	4.24784882
Degs2	0.47465229	4.41098383	0.01418252	0.1906181	4.19373851	4.10653644	4.22069809	4.83568651	4.3465299	4.7627135
Sprrh2	0.45252547	3.73999797	0.01421013	0.19076604	3.47223887	3.42135332	3.64761351	4.0137967	3.68871767	4.19668478
Dzfp3	-0.5220484	4.22397408	0.01420317	0.19076604	4.07312925	4.97235802	4.40950752	3.79935538	4.11205382	4.06744049
Atp2a3	-0.419403	7.62308836	0.01424635	0.19114065	7.48902539	8.07459425	7.93474986	7.06191472	7.64546275	7.3725277
Mup2o	0.56794577	3.29323026	0.01427315	0.19138814	2.91106845	3.07094767	3.045756	3.59037928	3.23427296	3.9066971
Ifitm3	-0.6941661	5.61618073	0.01430081	0.19161816	5.61128556	6.15999453	6.11851127	5.34090773	5.62636516	4.84002053
Vmn2r84	0.56854315	2.59898808	0.01430696	0.19161816	2.39347594	2.37624576	2.17454781	2.87753947	2.6311846	3.14104889
160005661	3.49973002	0.01432617	0.19176371	0.19676371	3.60882097	3.03898614	2.95129802	3.84289707	3.56729202	3.98845588
Gpr39	0.55481681	3.87527423	0.01431918	0.19181973	3.63854418	3.53411967	3.62093362	4.34394168	4.33227571	3.78183051
Pthr1	0.61134682	5.64949938	0.01438043	0.19181973	5.19077669	5.28749111	5.55321011	6.17367599	5.98560432	5.70623814
Prpf40a	-0.4282675	6.31100374	0.01436387	0.19181973	6.10321254	6.89399888	6.57820112	5.58487782	6.47265557	6.23307638
Rsrp1	-0.5535402	6.71095139	0.01435997	0.19181973	6.62202395	6.93269493	7.43274564	6.41223837	6.03757382	6.87703164
Trat1	-0.4633002	5.03134795	0.01437731	0.19181973	4.53507006	5.50744071	5.74648332	4.20886571	4.82917869	5.36104921
H2-Aa	-1.2173512	6.31959663	0.01436012	0.19181973	6.73897228	6.87685196	7.16891149	4.74422928	6.89356901	5.49488378
Zfp292	-0.6804475	6.74962841	0.01440463	0.19203113	7.27318966	7.22200055	6.76633703	6.13493131	6.45291169	6.63227091
Nudc13	-0.5163146	6.27599492	0.01442063	0.19213211	6.20567491	6.70484815	6.69193363	6.00671444	5.94762025	6.09917813
Mifl7e	0.44615029	4.34161528	0.01442893	0.19213211	4.28048003	4.07419048	4.0010579	4.73417101	4.36879034	4.59121882
Ifit2o	-0.5653641	6.54456302	0.0144375	0.19213498	6.52308316	7.19157714	6.76707496	5.91691158	6.28785971	6.58081756
Spint1	0.42393979	4.94077921	0.01446374	0.19228639	4.69404777	4.88906189	4.60331829	5.01180882	5.25401193	5.10304736
Zfp330	-0.4690302	5.3								

Tnfsf8	-0.4576344	5.51197894	0.01479635	0.19376895	5.45675578	5.91157626	5.85405642	4.87597535	5.36722331	5.60628651
2310030A07	0.45740049	2.61921321	0.01481023	0.19379623	2.33730758	2.39423535	2.43999597	2.89472876	2.64116016	3.00785144
Gak	-0.41890008	7.72857214	0.01481553	0.19379623	7.79370994	7.91678648	8.10357041	7.40678768	7.52582713	7.62475119
Bvht	0.4584739	5.03169391	0.01483128	0.19389488	4.83223662	4.83813173	4.73700251	5.43871449	5.08903906	5.25503902
Zfp639	-0.4244038	5.99435367	0.01486085	0.19395054	5.94795028	6.21137709	6.46033934	5.43100261	5.85994317	6.05550955
multi	-0.5907259	7.05877227	0.01485562	0.19395054	7.36221679	7.16404146	7.53614737	6.37062173	6.97335617	6.94625007
Tpp1	-0.5903472	6.39835533	0.01486013	0.19395054	6.12515111	6.72767999	6.7403957	6.45253693	5.77693149	6.08007677
Leprtl1	-0.4382138	7.97092625	0.01487812	0.19406575	8.22635597	7.9673215	8.37642194	7.71622009	7.68408586	7.85515212
multi	0.66633207	5.01682288	0.01489725	0.19420509	5.51343228	4.34660803	4.19093023	5.86037101	4.75954298	5.43005277
Arsh	0.58790794	7.47911954	0.01492152	0.19441119	8.02452082	6.56623573	6.96474014	8.26274728	7.58644236	7.47003088
Cdh13	0.48061564	4.28158518	0.01494405	0.19448426	4.08522411	4.06532369	3.97328427	4.67042377	4.70732847	4.18792675
Sftzd1	-0.5563971	6.3893583	0.01494406	0.19448426	6.62456246	6.62238335	6.7395247	5.83308961	6.47320084	6.01098884
Atf6	-0.5611065	6.87311061	0.01506622	0.19516843	6.92704971	6.825062	7.70887982	6.36982331	6.62425463	6.7835942
multi	-0.4775744	6.50443683	0.01500647	0.19516843	6.45799323	6.72358477	7.03909406	6.1947458	6.27884033	6.32336277
Serinc3	-0.4593022	10.1225393	0.01505402	0.19516843	10.5268025	10.2873306	10.2423481	10.1646263	9.95044825	9.56359
Ddk2	0.6189118	3.78626426	0.01501666	0.19516843	3.58740506	3.37127794	3.47075208	4.58643055	4.09457841	3.6075015
Mir3095	0.4698112	4.92958075	0.01508386	0.19516843	4.82485701	4.74285901	4.51630956	5.16258539	5.09890048	5.23188306
multi	0.43060887	3.52488879	0.01508219	0.19516843	3.27997581	3.31582293	3.33295432	3.82490074	3.74677918	3.64889976
Sacm1	-0.4881763	5.73606215	0.01502464	0.19516843	5.93677846	5.75644424	6.24722821	5.34879695	5.49686838	5.57743866
Mprl58	-0.5836302	7.17621634	0.01508192	0.19516843	7.29466603	7.3643618	7.74507182	6.74853811	7.15429893	6.75036672
Ly6c	-0.7308108	11.6282891	0.01503575	0.19516843	11.2625147	11.6284826	11.692086	9.87477458	11.312591	11.2032855
Cond3	-0.4569034	7.1993429	0.01509004	0.19516843	7.42669375	7.28197615	7.57471397	6.94475357	7.02202408	6.94589589
Mir8091	0.6571979	5.80800083	0.01508865	0.19516843	5.70536814	5.2709852	5.46185336	5.8088118	6.29731219	6.30367429
Neck2	0.48230071	4.71377447	0.01515464	0.19529851	4.48029818	4.53932988	4.39824428	5.1895805	4.77369528	4.90149725
Mir466d	0.49503152	7.33813851	0.01517265	0.19529851	7.33832792	7.08422148	6.84931884	8.03674803	7.67046561	7.04794917
Eef2	-0.5186053	10.2378958	0.01517226	0.19529851	10.3838228	10.4387778	10.6692646	9.6212568	10.2554133	10.0593312
Peli1	-0.5607411	8.49324942	0.01514693	0.19529851	8.79171434	8.77301574	8.7561297	7.8324678	8.29973972	8.50642912
Erbb2	0.41783669	4.77866207	0.01518507	0.19529851	4.53118786	4.61985263	4.5582002	4.9776511	5.07896864	4.90612151
Bptf	-0.5918621	7.5293855	0.01516459	0.19529851	7.92649293	7.7874509	7.77666497	6.90379201	7.55339111	7.26883939
Sox4	1.13828671	4.88919667	0.01517944	0.19529851	4.34940819	4.32149106	4.28926069	5.06091189	6.62653645	4.71858074
Aq30002Co4	0.43584346	4.38379734	0.0151595	0.19529851	4.24528004	4.11159034	4.14075646	4.60475585	4.70090697	4.49949438
Khyn	-0.4474055	5.6382228	0.01512054	0.19529851	6.1589415	5.63940947	5.83422414	5.52374668	5.30474995	5.46186194
Zfp97	-0.9846847	6.59385511	0.01515479	0.19529851	7.02254987	6.40322025	6.79572049	5.14320452	6.54023744	6.62109627
Tnshx4	-0.4151177	6.64137511	0.01522119	0.19565355	6.83249581	6.82287409	6.89143194	6.39603333	6.38019355	6.52522016
Clec4d	-0.4405919	7.99433764	0.01523645	0.19574027	7.79759084	8.47493591	8.37132904	7.29814354	8.20257105	7.82157545
Akt3	-0.658253	7.81397965	0.01529386	0.19576613	7.9349432	8.58280647	9.1127223	7.25812274	7.44190279	7.7542304
Ska25a1	-0.4418145	6.57677159	0.01528853	0.19576613	6.78283811	6.79588016	6.8143182	6.22571076	6.52660895	6.31527333
Mir17047	0.52472714	5.64239023	0.01527227	0.19576613	5.45499942	5.46336528	5.22351527	6.2956024	5.68206793	5.73839106
Zfp266	-0.756619	5.29707447	0.01528117	0.19576613	5.38218298	5.82748393	5.81648504	4.20005049	5.76766179	4.98582611
multi	-0.4133383	6.05055779	0.01529809	0.19576613	6.01979168	6.34104452	6.41084469	5.63097386	5.896301	6.00439101
Lrrc75a	0.41432914	4.96449625	0.01526102	0.19576613	4.66439121	4.9073946	4.70020923	5.15434241	5.32294564	5.07660226
Crebip	-0.4500272	8.17049997	0.01528722	0.19576613	8.4822621	8.35258906	8.35168956	7.90441156	8.09931821	7.83272934
Cankm21	0.45137802	5.38463882	0.01532141	0.19586483	5.24202784	5.08797446	5.14684712	5.82499593	5.33854156	5.667446
Hadh1b	-0.7324025	6.39564713	0.01532285	0.19586483	6.61970816	6.19793001	6.74050705	5.24389919	6.22915573	6.33528267
Sdha	-0.523173	6.72261125	0.01540263	0.1966659	6.86353577	6.96275979	7.12501406	6.08479702	6.78341084	6.51615
Tiaf2	0.52799433	4.48432491	0.01540239	0.1966659	4.35882826	3.88874268	4.41341229	4.93117928	4.07918413	5.23460281
2610042Lo4f	-0.4997855	5.49429808	0.01541249	0.1966826	5.41317762	5.22795525	5.09208312	6.00688655	5.42072173	5.8049642
Agos3	-0.550367	5.42415317	0.01543149	0.19681575	5.42702254	5.58079949	6.09018804	5.23996864	5.0051529	5.20187874
Plg1	-0.6075157	6.71177157	0.0154901	0.19717264	6.94974854	7.03462982	7.06220984	6.4278974	6.8081695	5.98797434
Fo5f5	-0.4927586	4.05251133	0.01549379	0.19717264	4.65519369	4.33320918	3.88826957	3.86058121	4.00780816	3.55072937
Clk3	-0.624864	7.88390631	0.01547267	0.19717264	8.00215114	7.96846767	8.61839617	7.36864965	7.80038871	7.54338454
multi	-0.4714059	7.7789253	0.01548361	0.19717264	7.98040334	7.7873629	8.27302025	7.61388145	7.46596658	7.54672065
Wbp5	0.67954896	5.19774981	0.0155123	0.19729896	5.0577496	4.99303479	4.58581623	5.18453614	5.68111789	5.74691887
Mir7016	0.47749235	5.84053928	0.01553358	0.19735112	5.86722419	5.49685442	5.44130071	6.58328535	5.74455826	5.91001277
Anapc4	-0.6975586	6.04430963	0.01553106	0.19735112	6.67228437	6.25726456	6.2497179	5.34972642	5.91125433	5.8256102
D130040H23	-0.4289922	4.6687889	0.01554559	0.1973947	4.72562505	5.2496416	4.67458836	4.39160512	4.68683318	4.2844401
Ilgam	-0.6000833	5.19201097	0.01557346	0.19735025	5.28938419	5.50399189	5.68278186	4.60774369	5.36028624	4.70787796
Pim2	-0.8605833	7.25593751	0.01557023	0.19735025	7.71905285	7.38869074	7.95094382	6.43196721	7.36924625	6.6757242
Ankle2	-0.5173353	6.30893141	0.01559801	0.19762346	6.19668178	6.73963996	6.76647542	5.99278276	5.9298492	6.22815932
Gm15612	0.50489847	3.71593278	0.01559528	0.19762346	3.90008833	3.32810717	3.15956862	4.26105215	4.1594239	3.48198349
Uhalld1	-0.4760651	6.64371021	0.01561717	0.1977573	6.87616488	6.88542922	6.88363423	6.15216337	6.44356996	6.6212996
Scal	-0.4490856	5.76661717	0.01563957	0.19793186	6.12764828	5.7575959	6.08826579	5.53096191	5.26079265	5.83446847
Inha	0.45220333	5.72147099	0.01568025	0.19793186	5.55439586	5.39018482	5.4152701	6.19788206	5.82736634	5.81746987
Mir214	-0.5883934	7.6927806	0.01571274	0.19793186	8.12681885	8.11849988	7.94510561	7.06923555	7.79713177	7.55887668
Atg7	-0.423979	5.96099188	0.01567546	0.19793186	6.06375236	6.13981987	6.1537186	5.54929566	5.82942534	5.86828621
Mir23a	0.46596473	4.3913638	0.01572926	0.19793186	4.15404024	3.93274742	4.38835663	4.43333605	4.63298949	4.80668835
Atm	-0.6799406	6.14808874	0.01567946	0.19793186	6.69891503	6.5142305	6.25102264	5.4149975	6.15159983	5.87539885
Camp	-1.1599643	6.83901292	0.01572201	0.19793186	6.15666093	9.05153732	7.048787	6.0324448	6.83247871	5.91216874
Snw1	-0.5205995	6.67405396	0.01570397	0.19793186	7.09934978	6.89387527	6.80983602	6.46964292	6.72298783	6.04863195
Vegfa	0.41413089	5.45762687	0.01573455	0.19793186	5.25984447	5.26732384	5.22451589	5.63535383	5.7495578	5.60916082
Tmx3	-0.8738331	5.3591795	0.01572269	0.19793186	6.2213198	6.04562574	5.1213426	4.49327389	5.68807584	4.58443914
Rad9a	-0.5536194	6.90640468	0.01571122	0.19793186	6.81193786	7.47639731	7.26130795	6.66129621	6.6355439	6.59194486
Gm3139	0.45292822	5.20790828	0.01570134	0.19793186	3.43258326	3.21994985	3.23046942	3.91420745	3.47399326	3.53538647
Ppp1c	-0.4300705	6.78706184	0.01578648	0.19796483	6.86576678	7.22868507	6.91183937	6.34897184	6.94526307	6.42184492
Lias	-0.6031795	5.31095061	0.01576444	0.19796483	4.58650744	6.157374	5.19373968	4.99844469	5.08052141	4.94911463
Hnrnpd	-0.42									

Ufsp2	-0.5892358	5.38390827	0.01612067	0.1988763	5.55151434	5.93997911	5.54408508	4.6904455	5.14672605	5.4306995
Ctcf	-0.5404197	6.83784199	0.01602731	0.1988763	6.9636777	7.03729142	7.32318646	6.11650798	6.86856278	6.71875261
Npntn	-0.533868	6.94005334	0.01599947	0.1988763	7.50719735	7.21560423	6.89816037	6.61762505	6.73112277	6.67061027
Myoga	-0.6110904	3.8295235	0.01622412	0.1988763	3.67664081	3.89193328	4.83663198	3.3552685	3.50178684	3.71487962
Ptprk	0.43507869	3.27353201	0.01606346	0.1988763	3.07496951	3.03268578	3.06032269	3.56273985	3.58182343	3.32865079
Myoid	0.68239739	3.87558982	0.01601672	0.1988763	3.54456743	3.51735393	3.54125201	3.84483101	4.80533829	4.00019624
E030046B03	0.43756351	4.40972565	0.01610686	0.1988763	4.45545582	4.01230098	4.10507488	5.02223599	4.27782374	4.58546247
Pik3r1	-0.7500864	7.91043898	0.01618906	0.1988763	8.42873487	8.22766099	8.20040896	6.97891599	7.73612207	7.89114742
170010101Ril	0.4776202	4.08731097	0.01605839	0.1988763	3.98030338	3.9004631	3.66505294	4.71130813	4.15028031	4.11677478
170010101Ril	0.4776202	4.08731097	0.01605839	0.1988763	3.98030338	3.9004631	3.66505294	4.71130813	4.15028031	4.11677478
multi	0.64117748	5.12972531	0.01605839	0.1988763	3.98030338	3.9004631	3.66505294	4.71130813	4.15028031	4.11677478
Na3o	-0.9140665	6.2533342	0.01610584	0.1988763	7.09623798	5.84496605	7.18989837	5.70176358	5.84782906	5.83931016
Olf1749	0.40944164	3.16416133	0.01619486	0.1988763	2.87775969	3.16071167	2.83985019	3.36232637	3.56030562	3.21010448
multi	0.58733914	5.12972531	0.01619226	0.1988763	5.45519799	4.42246175	4.63050749	5.67588099	4.93098707	5.66331657
E330033B04	-0.6910176	5.00959919	0.01618379	0.1988763	4.73209561	6.08208439	5.22414396	4.53431876	4.80949168	4.62146072
Mir193b	0.62208811	6.74024104	0.0162145	0.1988763	6.46668783	6.43692111	6.38452203	7.52128427	6.57971398	7.05339702
Pdia5	0.47229952	4.45247428	0.01621265	0.1988763	4.16279487	4.23788826	4.24829043	4.79769223	4.81508274	4.45309715
Zfp119b	-0.7022265	3.57246353	0.01617315	0.1988763	4.42273399	3.59166404	3.75633237	3.12636039	3.39298892	3.1474309
multi	-0.4833362	9.43343326	0.01599972	0.1988763	9.57835714	6.90535624	9.84159065	8.85869006	9.38518308	9.33142237
Mir15127	0.7714236	3.4123794	0.0161227	0.1988763	3.14858929	2.9852193	2.9461042	4.39732921	3.03438876	3.96255652
Ssxb6	0.50242464	2.88984471	0.01624212	0.1989833	2.79576978	2.5456871	2.54465868	3.13923617	2.90532334	3.37857156
Vpss3a	-0.6214626	6.73824198	0.01623666	0.19915737	6.0042076	7.28479261	7.85791961	5.73748792	6.82506668	6.71997747
Mir1769	-1.9137154	3.1252775	0.01628686	0.19915737	3.08964401	5.74588656	3.41087509	2.67381681	1.80701925	2.0244233
Chd7	-0.4524703	6.7529397	0.01626677	0.1992017	6.58132636	7.18846799	7.12619302	6.05550981	6.72506699	6.83999964
4933402N22	0.53371761	4.22477969	0.01623963	0.1992017	4.33937008	3.8718581	3.66545348	4.88108418	4.06432812	4.52558418
Kcmf1	-0.5310396	6.80967828	0.01623006	0.1992017	6.93018278	7.0047011	7.29701028	6.02104688	6.72453017	6.88689846
multi	0.61856625	3.28771797	0.01620541	0.1992017	3.21038981	3.10402373	2.62090601	4.07413395	3.19848078	3.51837356
multi	0.61856625	3.28771797	0.01620541	0.1992017	3.21038981	3.10402373	2.62090601	4.07413395	3.19848078	3.51837356
Sk3s2d	-1.4944532	4.70664983	0.01623795	0.1992017	4.71123111	4.47507169	5.13732552	3.80796682	3.93140471	4.30089732
Them6	-0.6980806	5.15954114	0.01621036	0.1992017	5.87465108	5.14576966	5.90532364	4.61619789	4.99263348	4.82267108
Mir466p	0.60782124	3.21641681	0.0162261	0.20012769	3.07318063	2.67828524	2.99147371	4.1728812	2.91837649	3.4697246
Hgs3t1	0.41284705	4.60419862	0.01643181	0.20013369	4.45140899	4.39619607	4.35727024	4.92009149	4.8278588	4.67500346
Skozai	0.54005832	4.25104542	0.01644355	0.20014387	3.91701013	3.96979148	4.05624717	4.39031835	4.88650512	4.28640529
Bnk	-0.9823347	4.89906664	0.01645006	0.20014387	4.82502423	5.3403129	6.00447380	4.06666804	5.09778963	4.05924913
Rab2a	-0.5219139	7.44371968	0.0164705	0.20018058	7.26623603	8.14333574	7.70445626	6.38137885	7.7373559	7.42017201
Casp3	0.60826035	6.34616061	0.01646751	0.20018058	6.08608214	5.74449285	6.2991346	7.08195529	6.44443959	6.42509377
Histzhabe	-1.2500331	5.39486296	0.01649016	0.20031364	5.95455296	5.82182849	6.8280313	4.5203393	5.26666929	4.52251955
Nestr	-0.5994872	6.4905937	0.01650494	0.20038718	7.44675918	7.44678023	6.85184773	6.35100082	7.05746387	6.53947359
Pfzta	-0.4495426	6.5580896	0.01652719	0.20044557	6.5757469	7.03441783	6.73841795	6.02174998	6.46913065	6.59060627
Mphosphio	-0.4903233	5.02974901	0.01651855	0.20044557	5.10002047	5.48119503	5.24351649	4.31935815	5.03766848	4.99673695
Olf178	0.45226393	3.80889397	0.0165474	0.20058549	3.59754863	3.44991106	3.70083683	4.24166312	3.68389799	4.20652621
Psm5	-0.4606856	6.59600646	0.01656144	0.20064925	6.82255195	6.89107466	6.76542118	6.30840497	6.66713444	6.12141258
Gm19723	0.48794702	3.76321034	0.01658575	0.20083792	3.63363564	3.60470792	3.19336691	3.85670967	4.08908304	4.07575883
Ece1	0.43244299	5.94690175	0.01660754	0.20095467	5.38674785	5.9995448	5.80574811	5.94927016	6.46555418	6.07454448
Copg2	-0.6029806	5.48293747	0.01661288	0.20095467	5.51083615	5.5813387	6.26110846	5.99593292	5.36501489	5.18343338
Bel9	0.41148237	5.21398226	0.01664706	0.2011564	4.70110257	5.40022862	4.92339203	5.19930485	5.77482425	5.28504422
Erbin	-0.4999351	6.80008255	0.01664627	0.2011564	7.1446258	6.94889605	7.05662842	6.48792219	6.78131542	6.81281742
Przc2	-0.4404365	8.02782368	0.01667074	0.20123093	7.8021779	8.28896752	8.05136039	7.48657453	7.919265	8.01535673
Zef1	-0.4129933	6.44752398	0.01666433	0.20123093	6.34966561	6.67799499	6.93441076	5.84197271	6.32749365	6.5361568
Ambrat	-0.4306524	6.98879028	0.01668959	0.2012419	7.11691174	7.42358099	7.07995678	6.49543422	7.07063674	6.74622122
Rnf186	0.50214359	6.09551703	0.01670147	0.2012419	5.78316658	5.91537545	5.83479367	6.38696904	6.08814846	6.56464897
Cers4	0.43213347	6.12285107	0.01669652	0.2012419	5.70320151	6.12093178	5.89621973	6.30879495	6.459993541	6.24802305
Pdhb2o	0.5128399	3.91992335	0.01670668	0.2012419	3.71848926	3.70624208	3.56578486	3.90323433	4.5057916	4.12000992
multi	1.19789834	4.9713075	0.01672501	0.20135723	3.23132692	2.82956688	2.63366444	4.41236638	2.93138493	4.944475
Zg16	0.94220762	4.10436087	0.01677342	0.20151775	3.72262753	3.65072015	3.52642352	4.79413327	3.70133078	5.23092961
Sntb2	-0.6329229	7.13998737	0.0167085	0.20151775	7.31631099	7.1524732	7.93778812	6.583028	7.00243667	6.8851131
Ph17e	0.45824286	3.86411143	0.01677059	0.20151775	3.6516292	3.48227304	3.77109476	3.90295494	4.158788	4.21792864
Gm8709	0.4117875	5.36512117	0.0167671	0.20151775	5.40898053	5.09856859	4.97013303	5.75244915	5.49000308	5.47059265
Gm14594	0.72479733	2.73327741	0.01679116	0.20162552	2.82204443	2.19715981	2.09343168	3.01915029	3.5949972	2.70837851
Lama5	0.4264191	5.07375907	0.0168382	0.20176871	4.88054303	4.81242682	4.88867873	5.33631989	5.35815541	5.16643056
Gmip	-0.4135399	7.95007606	0.0168341	0.20176871	7.35568888	7.36093828	7.05391082	6.83992767	6.98026114	6.70972954
Magea2	0.41032219	4.97072874	0.01682816	0.20176871	4.74572677	4.86925323	4.76137393	5.06969945	5.32289286	5.21472719
Apol8	0.55632321	5.8804576	0.01681551	0.20176871	5.56310121	5.61593616	5.62733746	6.14809286	5.78289893	6.54517995
Kcnq1	0.61262073	4.51433057	0.0168136	0.2021804	4.14971341	4.26345786	4.21088930	4.70793697	5.35383127	4.40015457
Fat1	0.45100995	3.9599094	0.01689588	0.20224895	3.7977564	3.67579118	3.74698945	4.43868962	4.10805962	4.00883687
Olf437	0.43052599	4.87865897	0.0169233	0.20236117	4.63015381	4.65339283	4.70660079	5.23033521	4.96999369	5.08153508
multi	0.51642049	4.25046701	0.01694047	0.20236117	4.58629704	3.68933376	3.70119349	4.89788898	4.04448856	4.58365423
Apim2	0.40595094	4.41056673	0.01693193	0.20236117	4.22294354	4.12274142	4.27708894	4.57358124	4.53833008	4.72871529
Ints6	-0.4568475	6.24606577	0.0169213	0.20236117	6.14415071	6.76356451	6.51573332	5.86443151	6.07186908	6.11662547
Ano7	0.41320814	5.08823618	0.01696899	0.20239924	4.9296593	4.86086773	4.85436929	5.24382134	5.28942973	5.35126966
multi	-0.5225914	5.28783764	0.01697889	0.20239924	5.12229972	5.7700429	7.87809598	6.80971149	7.28897975	6.98093463
Pacr1	-0.4145291	5.60037062	0.01697477	0.20239924	5.48620582	5.88891094	6.04778871	5.11707888	5.36189333	5.70034607
Cyp17	0.53990166	2.7878936	0.01697175	0.20239924	2.5045634	2.55733501	2.49194718	3.44568778	2.96326463	2.76459018
Snora75	-0.9836521	4.92582091	0.01700523	0.20249909	3.56529871	5.71534452	4.96943768	3.56270642	4.48037777	3.25604935
Mir3109	0.74248151	4.14867556	0.0170369	0.20249909	3.62796262	3.78213316	3.92220862	4.02118317	4.16516607	5.3733997
170001114R	0.4									

Csf3r	-1.0694938	5.38536287	0.01758974	0.20573963	4.98100201	6.46960392	6.30972334	5.01823985	4.62615633	4.90745178
multi	0.44268642	4.96731858	0.01758451	0.20573963	4.99475961	4.737131	4.5060355	5.59048445	4.96711944	5.00838148
Igfbp1b	0.47797416	3.89654161	0.01756142	0.20573963	3.658996	3.65411037	3.65955721	4.40469403	4.1170717	3.88482033
Atxn2l	-0.4457406	7.71729703	0.01754984	0.20573963	7.83156266	7.92927776	8.05966158	7.2919865	7.70931001	7.48198365
A730045E13	0.49916589	3.47093299	0.01754328	0.20573963	3.488338	2.94947085	3.22624129	3.99638479	3.14749695	4.01766606
Siah1a	-0.4640241	5.87362365	0.01759751	0.20573963	5.71013756	6.44375505	6.16301449	5.25668725	5.7397008	5.92844678
Ctdnep1	-0.4470768	6.92349265	0.01760257	0.20573963	7.05903024	7.30254294	7.07951993	6.44086629	6.80651127	6.8524852
Ipo11	0.50156489	4.87156967	0.01759905	0.20573963	4.05462633	4.93771737	4.87001798	4.50343249	5.76344238	5.10018147
multi	0.43050843	3.36276004	0.01754103	0.20573963	3.37208855	2.97266146	3.09776745	3.61849327	3.48966207	3.62588742
Cxadr	0.7112117	4.04661015	0.01765652	0.20573963	3.66600296	3.74060793	3.66640203	4.37214212	5.03761486	3.79689902
Gm19585	-0.7876185	5.00507451	0.01760823	0.20573963	5.49023054	5.63839865	5.06802204	3.9613599	5.01829953	4.85413638
Thr7	-0.465781	4.09804135	0.01762087	0.20578278	4.2754376	4.42328016	4.2940778	3.5368727	4.06043422	3.99814561
Spin4	0.49721099	3.87869619	0.01768299	0.20619393	3.99905474	3.38234544	3.50887191	4.33384363	3.70133102	4.34673042
Fgd6	0.47171319	4.16978231	0.01767688	0.20619393	3.89144267	3.93307613	3.97806835	4.19083686	4.28990663	4.73536354
Cdr14	0.40580985	4.86800549	0.01767365	0.20619393	5.70472784	5.67285092	5.52727293	6.18210045	5.99902474	5.94160599
Rhhp9	0.64376522	4.40714597	0.01775027	0.20636136	4.14054573	4.08810193	4.0271424	5.36443563	4.43153035	4.39111974
Selt	-0.7976785	8.58545434	0.01774438	0.20636136	6.68731494	0.03272988	0.23283635	7.39732923	9.01928956	8.14322597
Vmn2r46	0.4431282	7.27707213	0.0172556	0.20636136	2.70880267	2.34253596	2.61559045	2.94620289	2.81447219	3.23563861
2010315B03R	-0.4893612	4.34289095	0.01774365	0.20636136	4.19718662	4.85715764	4.70837042	4.03341341	4.18645702	4.07470661
Gm19924	0.45855925	6.04225809	0.01770935	0.20636136	6.0320676	5.81374085	5.59312693	6.37692079	6.12627496	6.31141738
Cam1	-0.4726334	5.51965131	0.0177602	0.20636136	5.84705679	5.87875117	5.54209614	5.1860309	5.30678324	5.35718963
Par6g	0.43554199	3.88522511	0.0177555	0.20636136	3.61988773	3.72997169	3.65250294	4.02223277	4.35525475	3.9315008
Tmem45a	1.3450882	3.96644182	0.0177832	0.20652205	3.43556013	3.21529727	3.23083577	4.33997292	5.99938336	3.57850145
Cttnbp2nl	0.40021759	3.96400929	0.01783512	0.20660514	3.65860188	3.96785929	3.6652404	4.05228259	4.32688484	4.11318683
Foxp1	-0.5169635	7.44292969	0.0178382	0.20660514	7.19163743	7.81223459	7.87045212	6.52684747	7.52736676	7.49721865
multi	-0.7798874	7.2611624	0.0182647	0.20660514	7.66886135	8.14767597	7.13677915	6.17896832	7.46422308	6.97046398
Man2b1	-0.4929523	7.37019497	0.0178283	0.20660514	7.39297394	7.69340567	7.76363822	6.81174023	7.5238722	7.03553452
multi	-0.416841	6.52390023	0.0180067	0.20660514	6.71221033	6.82828416	6.65645868	6.27312007	6.33046313	6.37285602
Tagap	-0.4263678	8.28166621	0.01785903	0.20677788	7.85119636	8.88809411	8.77525245	7.59967946	8.39181595	8.23760734
A43008919f	0.61651332	4.35815004	0.0189272	0.20706361	4.35054849	3.74861736	4.05046029	5.16583396	3.82942456	5.0036199
Vmn2r50	0.4534505	2.83279897	0.0179379	0.20716926	2.71190986	2.55831726	2.54799402	3.06479173	2.86225801	3.25152329
Obox3	0.57929496	3.1206276	0.01793487	0.20716926	2.93543497	2.73644629	2.8210591	3.97642832	2.95652912	3.29787229
Cd209c	0.42395658	5.04607963	0.01791593	0.20716926	5.02596466	4.7411943	4.7315155	5.58128944	5.00564563	5.18725219
Rhpsms	0.5310872	3.97459793	0.01791354	0.20716926	3.70229463	3.63241482	3.79245353	4.336532896	4.42947993	3.925157
Rock1	-0.4487068	7.314301	0.01794698	0.20717	7.3563476	7.8250771	7.44345295	6.6720164	7.53494822	7.06288718
Ezf4	-0.4378949	7.1092225	0.01796974	0.20720341	7.23552597	7.46054928	7.28856782	6.63761379	6.98137519	7.05207547
Maml2	-0.4608371	7.18094327	0.01798594	0.20720341	7.48395851	7.26157111	7.50206169	6.73179936	6.09673907	7.10655066
Fam60a	-0.4103313	6.88178334	0.0179724	0.20720341	6.74228453	7.0583928	7.46006669	6.2931307	6.76502116	6.96978177
Adam10	-0.6176909	6.6005375	0.01797734	0.20720341	6.94078647	6.73109073	7.05626938	5.80662044	6.52091482	6.54753864
Slain1	-0.4645071	6.40011755	0.01799997	0.20726049	6.31027519	6.79710181	6.78973624	6.07148895	6.3601154	6.07198771
D130046C19f	1.35047906	3.19125827	0.01800893	0.20726049	2.37073783	2.47211336	2.70520504	4.83782492	2.41554657	4.34612191
Dr1	-0.424371	5.24325061	0.01806998	0.20734013	5.09768011	5.52237209	5.74626522	4.52257152	5.09732687	5.47328783
Pd5a	-0.4404892	7.87119062	0.01806574	0.20734013	8.11260671	8.15835148	8.00334741	7.4524373	7.80600049	7.69444003
Atr	-0.5373175	4.80801717	0.01804832	0.20734013	4.78276782	5.26066723	5.18659277	3.99132912	4.56352812	5.06321974
Slp0a3r1	-0.479562	7.63002312	0.01806471	0.20734013	7.9759481	7.9336725	7.69709666	7.18747247	7.64051688	7.34273709
Phf1d	-0.407159	4.82860166	0.01803687	0.20734013	4.85675273	5.13379025	5.10598986	4.49266081	4.62902157	4.78339472
Rmdnd	0.43429654	3.29816955	0.01805494	0.20734013	3.07964962	3.18237763	2.98103659	3.6576998	3.67020393	3.21805974
Vmn2r33	0.46347885	2.92947698	0.01808519	0.20741111	2.83182135	2.58621293	2.67517837	3.5195437	2.79708176	3.16701766
Dnajc7	-0.9602653	7.21101445	0.0181996	0.20760273	7.74042012	7.39194014	7.9416208	5.93700628	7.33199874	6.92372131
multi	-0.4734012	7.98603255	0.01811865	0.20760273	8.08750868	8.22356345	8.35712731	7.7164087	7.94202042	7.58956677
Cct3	-0.5704158	6.08081039	0.01825303	0.20820471	6.59928503	6.1850464	6.31372346	5.58130228	5.97517965	5.83032351
Frs1	-0.4838266	6.25553912	0.01824103	0.20820471	6.11779904	6.50660764	6.5739706	5.60641992	6.19114693	6.2433106
Sk35a1	-0.4858405	4.83121457	0.01830251	0.20820471	5.23826395	5.05214432	4.93199735	4.47873436	4.54904698	4.73710158
Gbp4	-0.6187643	8.21775143	0.01819107	0.20820471	8.65027555	8.43149488	8.49963027	7.51252525	8.22648666	7.98609599
Fbln2	0.46347528	5.07306891	0.01820898	0.20820471	4.76128039	4.88940633	4.8733071	5.45185018	5.37931973	5.08351975
Zc3hc1	0.42346416	5.4952313	0.01830839	0.20820471	5.2435386	5.13939766	5.4675614	5.49451575	5.61984962	6.00652476
Clrha	-0.4860587	7.23067013	0.01824059	0.20820471	7.23271283	7.25297262	7.93559305	6.43215345	6.99863894	7.53212987
Olfr980	0.54216252	2.84951003	0.01822043	0.20820471	2.60418855	2.30161882	2.82947892	2.75568873	2.88812155	3.17196358
Peak1	-0.5608457	8.06435224	0.01825977	0.20820471	8.20064024	8.16224785	8.67141016	7.28365047	8.03058415	8.03755337
Olfr1322	0.62909692	3.68647204	0.01830642	0.20820471	3.32664946	3.38341364	3.40570765	3.78301101	4.5652395	3.65481
Bicc1	0.59129295	4.3927684	0.01827384	0.20820471	4.07478924	4.082459	4.13414286	4.79207578	5.03675363	4.23644053
Crllf3	-0.9008497	7.7489814	0.01828504	0.20820471	8.16195242	7.89532859	7.73093777	6.36133678	7.66646317	7.05970114
Plekha1	-0.52805	6.59744484	0.0182753	0.20820471	6.99193295	6.93265493	6.6598216	6.05985516	6.6186116	6.32179278
Psm2	-0.4550954	7.75846972	0.01824478	0.20820471	7.89226645	8.10483186	7.9605559	7.31059447	7.90958989	7.37258164
Pdcd4	-0.7648824	3.90508249	0.01829067	0.20820471	9.97116051	9.40615604	9.68683234	8.41750796	9.16432827	9.13366539
multi	0.52136007	3.92058269	0.01832077	0.20824153	4.13349493	3.5880701	3.25814293	4.47842278	3.89346597	4.17189942
Mir1722	0.40357992	6.34544213	0.0183472	0.20824153	6.05378327	6.31253836	6.0643488	6.37354821	6.71803184	6.55011622
Mfsd2a	0.58824472	4.51033719	0.01834787	0.20824153	4.14352999	4.3761457	4.12896879	4.51627648	5.46666295	4.43047222
Vmn2r42	0.39757472	2.48067757	0.01834018	0.20824153	2.44008746	2.2135556	2.19202662	2.78745832	2.62497402	2.62596245
Smacra2	-0.4663783	6.95424277	0.01836632	0.20834799	7.27569429	7.15558637	7.13101516	6.59031091	6.95921732	6.61363256
Gm1760	-0.5681089	6.08804575	0.01847046	0.20884678	6.17588121	6.14063103	6.79978838	5.13453913	5.81088708	6.46654765
Gzf1	0.5301264	5.29705349	0.0184706	0.20884678	5.19518648	4.97292177	4.92786263	5.32353043	5.63232213	5.73049752
Sdlt	-0.6582506	4.6741537	0.01853013	0.20884678	4.81225069	5.52974453	4.66922687	4.01898976	4.42295352	4.59452686
Tspan1	0.43869822	2.9309042	0.01849425	0.20884678	2.72740549	2.68713953	2.72012025	3.10356862	2.97184844	3.37534289
Gimap6	-0.4557931	8.41934764	0.0185375	0.20884678	8.28442506	8.73616575	8.92132172	7.59875328	8.51055061	8.46504944
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Csnk1g2	-0.3932921	7.33222865	0.01876875	0.20950086	7.45473105	7.47023362	7.66165948	7.07984108	7.07729437	7.24961231
Wwci	0.39897418	4.7076026	0.01875609	0.20950086	4.46334327	4.55747753	4.50325272	4.93829924	4.94136411	4.84160571
Emsy	-0.4597579	6.99709978	0.01881821	0.20989178	7.2068798	7.35417956	7.19606882	6.57700402	7.16979864	6.55512985
Xrec5	-0.8079572	5.75280787	0.01883149	0.20989534	5.89895452	6.44298263	6.12842233	5.0939962	4.92210532	6.03038623
Psip1	-0.4106673	5.84052193	0.01882703	0.20989534	5.81612069	6.15167575	6.16977029	5.44118607	5.84059839	5.62378041
Speer4d	0.4436111	3.82729856	0.01886226	0.21000383	4.15670441	3.36699389	3.29278074	4.45329364	3.7189495	3.97506921
Ofrf23	0.58591712	3.6597447	0.01886864	0.21000383	3.36072083	3.30346086	3.16617673	4.40113939	3.85558121	3.33138917
Gm16702	0.42375426	4.75150738	0.01886366	0.21000383	5.01895573	4.20012582	4.39980921	5.5764551	4.44480675	4.86889169
Fbp1	0.45133576	3.77124073	0.01890563	0.2103137	3.55019558	3.57780103	3.50872195	4.26160977	3.90234685	3.82676922
Trip11	-0.6203006	5.65001636	0.01892199	0.21039381	5.74125886	6.21283072	5.92641041	5.18948955	5.07712873	5.7529799
Cene1	-0.5637579	6.202857	0.01893943	0.2104859	6.49751498	6.911166	6.04552683	6.01801666	5.90312234	5.84179518
Gm4759	-1.037742	8.12159161	0.01897508	0.21057662	8.70762859	8.5527128	8.66104643	6.55235226	8.13602986	8.11077969
Blm	-0.5551861	5.22751228	0.01896376	0.21057662	5.23913208	5.49488796	5.78129598	5.12036498	4.60049389	5.12889881
Zfp275	-0.4755079	5.73641287	0.01898634	0.21057662	5.95970785	5.93315757	6.02963513	5.58099035	5.66782886	5.24715749
Cpne8	0.43761765	3.02309667	0.01898806	0.210619	2.78212045	2.81174824	2.81899486	3.23384831	3.04584374	3.44602445
Pks1	0.40233618	3.72477455	0.0190173	0.21084164	3.58123488	3.50496065	3.48462386	3.9460592	3.83893329	3.99292544
Accs2os	0.58043333	4.09680638	0.01904398	0.2109339	3.84329941	3.72007255	3.8563972	4.89166761	3.9143656	4.35503592
Nol1	-0.4590002	4.96125344	0.01903732	0.2109339	5.17468784	5.38265954	5.01492668	4.43756812	5.03925437	4.71842411
Ntani	-0.4544307	6.73492643	0.01906268	0.21103935	6.76576775	6.92433117	7.19633236	6.21876585	6.73527935	6.56908207
4930555G01R	0.49343864	3.03156505	0.01907761	0.21102886	3.07731561	2.62596216	2.65125943	3.5087109	2.85145939	3.47486828
Uqc3	-0.39934	7.1336186	0.01910479	0.2110186	7.15194852	7.26896467	7.57895256	6.6722802	6.95156484	7.17800078
Ppp275a	-0.6042602	8.18920467	0.01912291	0.21134601	8.4170183	8.59781619	8.45918636	7.27616346	8.23034136	8.15470685
Mid2	0.39312881	3.49092691	0.01912717	0.21134601	3.25919477	3.26850056	3.35540537	3.63777535	3.63205765	3.79462774
Dnajc8	-0.3991349	5.81249078	0.0191715	0.21142539	6.02258925	5.97582934	6.03775608	5.53171076	5.64196609	5.66590317
Lins1	-0.6708382	3.0250387	0.01915494	0.21142539	4.51032474	5.11061691	5.16882728	4.329414	4.54704468	4.24879562
Rasgfi1	0.51084781	3.63358145	0.01914399	0.21142539	3.36208599	3.39578578	3.37660088	3.94188582	4.19926688	3.52586336
7530416G11R	0.40411528	6.16178523	0.01916232	0.21142539	6.04189142	5.93011275	5.90717561	6.4908787	6.21568319	6.38496673
Gnb1	-0.40770311	8.07830422	0.01919266	0.21156111	8.19492691	8.28234414	8.36818832	7.67445867	7.99241096	7.95749636
Cars2	-0.4134636	5.69380809	0.01927987	0.21242054	6.10953008	5.97504164	5.61416663	5.5785809	5.53133203	5.35186664
multi	-1.8806154	8.00529856	0.01931707	0.21252481	7.8914329	9.06548492	8.79900092	7.47472411	8.28032526	8.59089565
Kdm3b	-0.4714903	6.8078077	0.01930701	0.21252481	7.09071312	7.05365756	6.98628803	6.43183499	6.88942836	6.39492275
Matr3	-0.6003046	6.93842311	0.01931011	0.21252481	7.26578397	7.19386377	7.16329609	7.03192555	6.74659476	6.74659476
Teorg1	-0.4373893	6.22566811	0.01933115	0.2125779	6.21052093	6.44742547	6.67541189	5.65321945	6.24159285	6.12610807
Zfp960	-0.962057	6.63291389	0.01935221	0.21274069	7.01436138	7.30495335	7.0225045	5.04701247	6.6529704	6.75657767
Dhx38	0.43333434	5.92398253	0.01938472	0.21296321	5.64502768	5.91818279	5.55843561	6.13786278	6.1322844	6.13210192
multi	1.67337975	3.12260442	0.01941676	0.21305531	2.5621016	2.39108544	2.36444802	4.80123205	3.69836043	2.47829094
multi	1.67337975	3.12260442	0.01941676	0.21305531	2.5621016	2.39108544	2.36444802	4.80123205	3.69836043	2.47829094
Hist1h2bc	0.50406205	6.32341695	0.01942091	0.21305531	5.08761809	5.08761809	5.23055426	5.91664116	7.45852506	6.30337871
Zyx	-0.3928099	7.20760308	0.0194415	0.21311474	7.38290702	7.33239631	7.49672079	6.95788569	6.99871159	7.07699059
Dnajc21	-0.4072993	5.73263154	0.01944488	0.21311474	5.66080006	5.68026588	6.46777762	5.11598313	5.32151226	6.14945207
Msh3	-0.6418974	5.0177878	0.01947329	0.21324246	4.93690085	5.73962017	5.3396884	4.89170477	4.83854062	4.36027198
Arf61p4	-0.7154545	7.31052296	0.0194859	0.2132938	7.66320544	7.53853688	7.80300826	7.29772194	7.17714199	6.3852327
Prkx	-0.7939451	6.930141	0.01949231	0.2132938	7.66019095	6.78582055	7.53532918	6.19196864	6.73971196	6.6405995
multi	-0.4184249	7.6991643	0.01952187	0.21355125	7.53388362	8.08892602	8.10232056	7.14763822	7.5006986	7.82151879
Xrnl	-0.7368957	8.35121007	0.0195718	0.21390237	8.64984807	8.67203545	8.83709024	7.18966123	8.40933344	8.34928796
Ikk1	-0.5649243	9.07511711	0.01957541	0.21390237	9.22891242	9.53963236	9.30419303	8.18331927	9.19725898	8.99738659
Olfrr9	0.70640943	3.42605422	0.01958189	0.21390237	3.16743752	2.99998548	3.05112551	3.63557754	3.26242424	4.43977502
Sto06	-0.7327373	8.04096194	0.01960083	0.21400753	9.02680363	7.85231509	8.34287309	7.70578648	7.78728761	7.53070576
Ap5f1	-0.4541141	6.10580282	0.01962006	0.2140142	6.15425408	6.57456227	6.26949329	5.86282581	5.84612858	5.92728292
Zfx3	0.40984162	3.98438751	0.0196163	0.2140142	3.77800738	3.77304875	3.78734398	4.29414449	4.22457691	4.04920358
Qars	-0.4919358	7.6372894	0.01963256	0.2140489	7.6020094	7.93469063	8.11307193	6.98443983	7.79254396	7.39698066
040033496	2.77395197	2.77395197	0.01964512	0.21405501	2.58001412	2.30651393	2.63482542	3.063186	2.93226561	2.92690662
Lad1	0.40258706	5.29067096	0.01965863	0.21405501	5.14006341	5.10806663	5.02000225	5.59404245	5.61474912	5.31210192
Ofrf1368	0.59458436	2.35844999	0.01966106	0.21405501	2.03517512	2.12482655	2.02347175	2.45800162	3.2386277	2.27057211
Actr3	-0.4292746	9.63242752	0.01973923	0.21419585	9.72677737	9.88279195	9.99408873	9.42449691	9.54109887	9.35023491
multi	-0.6063902	7.04752964	0.01973354	0.21419585	6.85028255	7.37854311	7.82334536	6.67290915	6.85303669	6.70705785
Gm3230	0.39340757	4.1806006	0.01969994	0.21419585	3.8965456	4.07570517	3.76165766	4.36274358	4.4453819	4.10600566
Zfb34	0.40522065	5.73250974	0.01972067	0.21419585	5.57177578	5.72393777	5.4455247	5.91479423	5.90334572	5.98722024
Rnf130	-0.5335011	5.92632809	0.01973384	0.21419585	6.15534046	6.03803544	6.38586006	5.26239007	5.88957678	5.82676271
Lppo	0.42868124	4.93447637	0.01978928	0.21419585	4.57811545	4.88033845	4.70195337	5.1316947	5.09670392	5.21805236
Rp71	-0.527111	6.57810379	0.0197662	0.21419585	6.1126243	6.91932615	7.49302735	6.02492627	6.73454607	6.58480261
Nphs2	0.4432012	3.84052305	0.01980827	0.21430673	3.67861938	3.50063082	3.67751669	4.37421783	3.82774948	3.98440412
Tc17	-0.6545554	5.96865101	0.01982174	0.21430673	6.08880883	6.18066522	6.61832107	5.61260581	5.95220173	5.35931239
Knab2	-0.3882882	6.94555867	0.01981421	0.21430673	6.88768767	7.30664087	7.25177973	6.51663032	6.92383841	6.84077501
Ift2	0.48695644	5.30755185	0.01982681	0.21430673	5.15377104	5.04661603	4.99183383	5.65144819	5.82859318	5.17304883
Zfp11	0.56482671	3.53445954	0.0198135	0.21430673	3.70523867	3.16557085	2.91243823	3.80090658	3.88991086	3.73291044
Kras	-0.8901022	6.49717722	0.019853	0.21430673	7.18370322	6.75030879	6.89253797	5.7098949	6.74749811	5.83802577
Ddx50	-0.5506796	5.07292608	0.01976447	0.21430673	5.30329802	5.24878333	5.49271626	4.29717645	4.87055069	5.22503171
Rnf167	-0.4628572	7.1813222	0.01985232	0.21430673	7.19854055	7.57369748	7.46601436	6.54860878	7.00339974	7.29767227
Sox9	0.42546866	5.03682049	0.01983652	0.21430673	4.78597845	4.82261774	4.86366228	5.13056271	5.45310364	5.16499800
Odc1	0.57282938	7.04798834	0.01984299	0.21430673	6.84211273	6.26905541	7.1735528	7.132699	7.33710354	7.53340655
Top2b	-0.8283705	6.47208131	0.01980248	0.21430673	6.94535129	6.89072967	6.82271866	5.25688242	6.4448197	6.47198611
Lipo3	0.43484551	3.89549394	0.01982406	0.21430673	3.80721147	4.01021012	3.21679197	4.06338327	4.66239003	3.61297679
0610010Bo8R	-0.5492992	7.14312321	0.02000777	0.21449074	6.98671206	7.48773654	7.77886709	6.85574748	6.8955731	6.8540976
Apha	-0.5303543	6.79004333	0.01991125	0.21449074	7.22564884	6.64904742	7.29096521	6.3046414	6.46554925	6.80440785
Gm515	-0.7323466	4.55763493	0.01993873	0.21449074	5.65282849	4.29860882	4.81998742	4.22137564	4.10701917	4.24599003
Olf154	0.51254963</									

Lydp6h	-0.51664	6.19508304	0.02025294	0.21523174	6.38321872	6.78361259	6.19337776	5.86938565	5.91318026	6.02772328
Creb3l1	0.52978432	5.31183306	0.02035231	0.21523174	4.94183661	5.09305396	5.10593214	5.90257482	5.40008438	5.42751647
Mgst2	-0.5019168	7.70125595	0.02021611	0.21523174	7.79605691	7.91489764	8.1456885	7.12629015	7.79195916	7.43264333
Atraid	-0.5599561	7.48281107	0.02037352	0.21523174	7.5832262	7.5859374	8.11860372	7.07919475	7.41251722	7.11618714
Obox5	0.42029292	2.91774663	0.02028725	0.21523174	2.74014316	2.72390613	2.65875123	3.25134057	2.94626368	3.18607504
Beam	0.38917543	5.47953969	0.02036744	0.21523174	5.28854899	5.23361235	5.3326946	5.72566926	5.63795216	5.65876608
Gsk3a	-0.3998425	7.47879707	0.02033552	0.21523174	7.4256939	8.14581451	7.44979656	7.06362032	7.68492923	7.10292789
Gm19897	-0.3938023	4.82974829	0.02037786	0.21523174	5.12535017	4.90271276	5.05188535	4.655678	4.59973774	4.64312572
Mir101c	0.60912463	5.26012164	0.02026867	0.21523174	7.67437607	3.87987074	3.31243116	8.1234925	4.10578251	4.46477683
Ube4a	-0.421992	6.68807456	0.02037167	0.21523174	6.76054619	7.02240233	6.91426315	6.18692091	6.79492014	6.44939466
Cd3e	-0.4043599	10.1927912	0.02047407	0.21523174	10.1601049	10.4492462	10.5755622	9.83021973	10.1158732	10.0257407
Arxse2	-0.6747958	3.25052324	0.02034731	0.21523174	3.83142984	2.82180783	4.11124574	2.81295663	2.80264066	3.12377876
Rxh8	0.46139905	4.30042292	0.02030688	0.21523174	4.26145205	4.05884447	3.88887366	4.75645667	4.2449166	4.59199506
Alf622270	-0.4779521	6.98143286	0.02028672	0.21523174	7.40097733	6.92538695	7.33486246	6.70940672	6.77719454	6.74076918
Prpsap2	-0.5603464	6.08265555	0.02027774	0.21523174	6.8718041	6.18088271	6.03579948	5.90526623	5.59976789	5.9024129
Gm2016	0.60421571	2.88989661	0.02036488	0.21523174	2.78047567	2.54345175	2.43970585	3.59457971	2.60073599	3.38096469
Wdr37	-0.4360579	6.34423231	0.02037174	0.21523174	6.31547256	6.37458995	6.99678356	6.0511398	5.99828566	6.32924707
Extl3	-0.4196496	6.50812196	0.02037312	0.21523174	6.7469299	6.82751247	6.57937085	6.16155654	6.5837975	6.14951047
Docr	0.38663047	5.93936982	0.02038776	0.21523174	5.7713052	5.85466115	5.60637207	6.12662898	6.24512942	6.02629675
Gdpd1	0.62321363	2.83318783	0.02043698	0.21565797	2.42152265	2.52709797	2.52747242	3.26279645	3.64576272	2.56947476
Gm19817	0.5074872	2.71893863	0.02049519	0.21595799	2.6166276	2.31018495	2.46715265	3.50966771	2.69131035	2.7154485
Zfp280c	-0.4764662	6.28873443	0.02050299	0.21595799	6.29931994	6.8219416	6.45964112	5.7546986	6.09637495	6.30043933
Mcu	0.40207898	5.37787514	0.02048769	0.21595799	5.7743816	5.01046227	5.34260653	5.6790038	5.27864066	5.77909943
Pdgbf	0.40641921	4.50285267	0.02047681	0.21595799	4.25343097	4.33641237	4.30908584	4.73854307	4.81978371	4.55986003
Srpk2	-0.6294619	6.17362995	0.02053275	0.21607331	6.55502101	6.78130518	6.12875646	5.61332351	5.87026404	6.09110951
Vps13a	-0.605544	6.10013421	0.0205244	0.21607331	6.49017183	6.25621295	6.42333383	5.34106562	5.82264992	6.22837111
Fhlh7f	0.42986447	4.16017862	0.02054283	0.21608045	4.36127415	3.60405154	3.87041349	4.61497139	3.99582646	4.51453473
Cdca1a	0.41116553	5.69348036	0.02059886	0.21650773	5.55939733	5.46838861	5.43140684	6.11887958	5.90774444	5.67506535
Aamp	-0.4260425	7.04751949	0.0206564	0.2168781	7.1419159	7.31781548	7.32252084	6.91032709	6.88274512	6.71042252
Igfbp4	0.607764	6.38711319	0.02063834	0.2168781	5.96655142	6.18469226	6.09844988	6.32911886	7.35136651	6.3925002
Cedc50	0.42489832	3.60931443	0.0206568	0.2168781	3.46621677	3.40741437	3.31696466	3.7053044	4.02170624	3.73828008
Myzl2	0.38501037	4.5244588	0.0206709	0.21693123	4.41394204	4.28983346	4.29208536	4.78876811	4.71005798	4.65206587
Denmdc	-0.5966215	8.18785256	0.02071351	0.21727911	8.19462123	8.48407509	8.81579361	7.76793361	8.21396187	7.68672988
Hs3t3b1	-0.475908	5.87327295	0.02072965	0.21734922	6.16415524	6.12511135	6.04440346	5.54369294	5.4593541	5.90292063
Gm6345	0.41597396	6.3526321	0.02077781	0.2174712	6.03459872	6.19222312	6.20711352	6.60890273	6.4336869	6.64007356
Pnfi	-0.4375847	6.26867776	0.02080752	0.2174712	6.42242384	6.57395741	6.64482913	5.90847388	6.38234877	5.85763074
Pik3r1	0.44997705	3.94971891	0.02077874	0.2174712	3.68014358	3.94558593	3.54866946	4.04354451	4.30736927	4.27323854
Hear1	0.40332773	3.25139567	0.02079263	0.2174712	3.04775545	3.13178457	2.96965538	3.506982	3.38688479	3.46531181
Mrsps1	-0.555362	5.4054851	0.02079777	0.2174712	6.11881487	5.7131404	5.36779958	4.83262218	5.42675913	4.97376488
Atgsp	-0.4065676	7.55242825	0.02079548	0.2174712	7.5920887	7.80452391	7.87052348	7.27487893	7.47001273	7.30254174
Ctsl	0.38467892	4.68457737	0.02080107	0.2174712	4.27209954	4.79255687	4.41205732	4.62988576	5.21624005	4.78462468
Mult1	1.32698848	3.62138317	0.02086279	0.21765294	3.07222307	2.99661059	2.80483314	4.52828725	2.9517562	5.37456936
Rer1	-0.5430561	7.40899057	0.02084993	0.21765294	7.63662646	7.7291072	7.6759187	6.6345889	7.42031782	7.35748081
Sarta	-0.5143808	7.53070826	0.02085881	0.21765294	7.73736399	7.86388257	7.76244935	6.82233271	7.6230576	7.37516335
Cnh	-0.4878121	5.98270321	0.02085648	0.21765294	6.11064908	6.59919884	5.96997989	5.59913	5.8191261	5.80534887
Cd3d	-0.4576284	10.3343191	0.02090381	0.21770412	10.3919432	10.5586258	10.7390469	9.8633018	10.388114	10.064789
Xlr4b	-0.6609689	7.22102428	0.02088849	0.21770412	7.59259652	7.30669043	7.75523922	6.45032504	7.25523347	6.96606101
Mir450-2	0.45156599	3.509326	0.02090558	0.21770412	3.18065349	3.38539137	3.28459781	3.6680801	3.57341831	3.96381492
Psmc3	-0.577842	7.61277085	0.02089558	0.21770412	7.70985306	7.8967123	8.09842348	6.64232404	7.42233628	7.90697596
Armc1	-0.6282187	5.28185877	0.0210917	0.21813387	5.70402417	5.66554315	5.41833706	5.23939507	4.45887176	5.20498141
Gpr171	-0.445343	5.6923851	0.02109712	0.21813387	5.95968703	5.66937852	6.11610421	5.52399165	5.4940621	5.52968212
Capz1	-0.4964754	8.08982218	0.02106731	0.21813387	8.05829731	8.59352528	8.36235708	7.65135997	7.73334548	8.14004795
Gstm3	0.41597241	3.81706354	0.02104233	0.21813387	3.52559774	3.63626324	3.66537102	3.91397517	3.89790199	4.26327206
Speet4f2	0.39263571	3.96294837	0.02108009	0.21813387	3.7983383	3.75852293	3.74303031	4.22089938	4.04574111	4.2115519
Bre	-0.5193589	6.6612685	0.02099466	0.21813387	6.5835132	7.2038859	7.08001988	6.41264452	6.30762554	6.58907209
Itgax	-0.9501833	6.77250455	0.02101817	0.21813387	7.34263383	6.48432862	7.91582611	5.50032399	6.44174598	6.95016879
Sle44a2	-0.7887157	8.46988053	0.0210474	0.21813387	8.64339408	8.88356846	9.06575263	7.03082962	8.53533326	8.6620251
Emd	-0.734044	7.17390735	0.02106914	0.21813387	7.13309844	7.41156828	7.68716166	6.74391253	7.17613792	6.89156526
Atrx	-0.4357226	6.14649697	0.02109579	0.21813387	6.56695767	6.70554937	6.63056784	5.88445336	6.43203542	6.27941816
Mknk2	-0.4816417	7.59046315	0.02109521	0.21813387	7.75584768	8.04212408	7.69588029	6.92456846	7.70957505	7.41478333
Rufy1	0.44443449	5.13535705	0.02101058	0.21813387	4.81736754	5.1337142	4.78833767	5.48084913	5.60646473	4.98540902
Zerb1	-0.4602253	6.08667572	0.02105985	0.21813387	6.13743511	6.32185799	6.49111252	5.74932525	6.08371184	5.73661157
Pik3c3	-0.4166653	7.0406518	0.0210797	0.21813387	7.19939295	7.29933267	7.2482277	6.5807074	7.00140535	6.91047471
Lag3	0.57028827	5.7545485	0.02115853	0.21845754	5.67234868	5.19491385	5.54095556	6.74871051	5.48461312	5.88575426
Mult2	0.42283859	2.93367965	0.02115437	0.21845754	2.85977707	2.60780124	2.69992276	3.06837054	3.1707801	3.19620919
Fam26d	0.39101657	3.71612061	0.0211253	0.21845754	2.70258788	2.45495357	2.49429533	3.18787006	2.76720827	2.86980836
Fbxl3	-0.3945799	6.00796238	0.02114634	0.21845754	6.01185136	6.18470513	6.41920054	5.5063602	5.90958015	5.97180108
Olfr91	0.48994492	4.30064935	0.02115286	0.21845754	3.96922058	4.08062665	4.11718344	4.78413804	4.25930798	4.59341941
Olfr351	0.47389755	3.47065675	0.02118139	0.21859541	3.18988029	3.27520887	3.23603475	3.96367887	3.46710528	3.69202341
Lactb2	-0.4829883	5.40397184	0.0212547	0.21860924	5.36321591	6.05808657	5.51509555	4.6785345	5.42266147	5.38623705
Fshb	0.42640184	3.32309731	0.02129474	0.21860924	3.19227269	3.09217378	3.0452427	3.84188801	3.45274721	3.31425948
Fndc3b	0.39918463	4.66592154	0.0212428	0.21860924	4.41084393	4.41724344	4.57090031	4.90741171	4.85685514	4.83227471
Gm10705	-0.4019079	5.14236397	0.02125972	0.21860924	4.94939799	9.32673989	9.20971593	9.04472094	8.82248065	8.95702842
Vmn2r22	0.4077945	6.26323903	0.0213261	0.21860924	2.6036803	2.46222289	2.2794221	3.11856929	2.69700829	2.75313133
Zfp772	0.44909255	4.95421877	0.02135948	0.21860924	4.92201836	4.64099048	4.62600865	5.22728488	4.94828808	5.36072216
Lsr	0.47097719	5.25641187	0.02137297	0.21860924	4.90591711	4.970981	5.1858			

Of1r1331	0.81682254	3.39007928	0.02162701	0.2199352	2.93637023	3.02468112	2.98395268	4.60802163	3.27364376	3.51380627
Lrp80s2	0.40039933	5.34378402	0.02164956	0.219952	5.17873826	5.12817676	5.12383807	5.63667372	5.37640635	5.618871
Shad7	0.42909741	3.52942892	0.02165737	0.219952	3.3993776	3.34413141	3.20113165	3.73025093	3.63165613	3.87002581
Myof	0.41343362	4.13060848	0.02164736	0.219952	3.84227608	4.07881721	3.85013173	4.44153054	4.34083751	4.22960784
Rps15a-ps6	-0.3856423	6.8014788	0.02167976	0.22008212	7.09513574	7.007376	6.88038816	6.79160963	6.5936257	6.4407376
Ddreb1b	-0.6137574	5.88279243	0.0217039	0.22008824	6.54433923	6.04864575	5.97602833	5.36047618	5.81730994	5.54995514
Dagi	0.38549861	5.79520414	0.02169663	0.22008824	5.55991681	5.68762671	5.55982099	6.0120425	6.08405033	5.86860575
Gtse1	0.47439382	4.75688478	0.02170788	0.22008824	4.50278514	4.60813944	4.44813903	4.88922985	5.41377859	4.67923664
multi	0.50551295	2.95112384	0.02171867	0.22008824	2.79570383	2.66015572	2.63924255	3.70326344	2.98254263	2.92583488
Snord89	-0.4088587	9.93570741	0.02181318	0.2206357	9.93332514	10.0203762	10.4467089	9.72854335	9.49937139	9.96591947
Hypk	-0.4619943	7.10789039	0.02180525	0.2206357	7.32514774	7.36250047	7.32901445	6.53222989	7.11684965	6.96160014
Ndufaf4	-0.54939959	5.24373432	0.02179362	0.2206357	5.15675533	5.56614765	5.83320989	4.34028281	5.49563666	5.07037361
Zfp276	-0.3957154	5.57412617	0.02181804	0.2206357	5.81903334	5.47868503	6.01823323	5.53032423	5.10511374	5.49336744
Psmg4	-0.388654	6.99996866	0.02182069	0.2206357	7.07158007	6.90916987	7.60213704	6.58225717	6.59696248	7.23770529
Gm6455	0.45224817	3.7758582	0.02183599	0.22068422	3.87391849	3.53007073	3.24499599	4.32731277	3.72357831	3.95483865
Vdac3	-0.7261078	7.20605901	0.02185101	0.22077836	7.30026275	7.25412333	8.15294812	5.94605145	7.19265777	7.399030615
Vmn1r208	0.76686517	3.12141162	0.02187195	0.22082624	2.95445197	2.63095227	2.60072286	3.0887234	3.28363339	4.11436581
Wdr61	-0.6106894	5.59162277	0.02190132	0.22096489	5.98046229	5.75125198	5.95918818	5.35938769	5.64658405	4.85286241
Ndufa5	-0.4079196	7.10774608	0.02189648	0.22096489	7.25385641	7.33018628	7.35107486	6.6730946	6.95468834	7.08357595
Rgl3	0.38353515	4.82742477	0.02192321	0.22098261	4.64311894	4.68020165	4.583651	5.01167159	5.01573603	4.94007583
Of1r934	0.63318787	2.72519595	0.02191966	0.22098261	2.37707033	2.50308068	2.34565503	3.62137682	2.7912813	2.71271151
Dusp16	0.44146457	4.20482089	0.02193729	0.22103671	3.9545298	4.03578522	3.9619508	4.27424798	4.75158695	4.25264462
Mef2d	-0.4008547	7.0344994	0.02195994	0.22108215	7.15923111	7.39308641	7.2093143	6.67920243	6.91086054	6.96900483
AA543401	0.42972677	5.06608408	0.02196104	0.22108215	5.11162498	4.65123457	4.79080255	5.77753382	5.02390186	5.01440673
Mcmdb	-0.5245196	6.86757241	0.021988	0.22125666	7.12907957	6.94557621	7.31484079	6.1653041	6.63040665	7.02000084
Strip1	0.39840805	5.96074554	0.02202569	0.22126731	5.74259147	5.66009973	5.88193334	6.0684126	6.21098154	6.20045455
Arap2	-0.8475559	6.19415546	0.02202772	0.22126731	7.11176409	6.51487214	6.22716398	5.35311553	6.21209269	5.74592431
Sirt2	-0.3796908	7.04623985	0.02199989	0.22126731	7.13030129	7.13362524	7.44432919	6.79160061	6.7214129	7.0562341
Mir6239	0.46605309	6.6487091	0.02201719	0.22126731	6.60686387	6.13453528	6.50564852	7.36523464	6.58618081	6.69379149
Vmn1r236	0.41313007	2.44921931	0.0220323	0.22126731	2.13323431	2.27341743	2.2313107	2.62911257	2.80462915	2.5336113
Arhgap1	-0.3946405	7.45285917	0.02203572	0.2213657	7.64972246	7.64989109	7.75623466	7.19507894	7.28697074	7.28396714
Cnna2	-0.5346773	7.85664489	0.02208165	0.22142348	8.20953542	8.11534224	8.04407293	7.93120505	7.99663898	7.4672788
493340215R	0.4030526	3.12286814	0.02207703	0.22142348	3.4489709	3.26537562	3.21967899	3.83692597	3.52921362	3.77704374
Ccd47	-0.461636	5.59772024	0.02209201	0.22143074	5.58971588	6.17248771	5.72206108	5.42645047	5.45880573	5.21410058
multi	0.54379848	4.2951235	0.02168123	0.22168123	5.08666717	3.45079531	3.52921031	5.2523279	3.94112107	4.50741436
Gm3669	0.64745759	3.82298336	0.02214594	0.22168123	4.1270153	3.34353011	3.02722828	4.31627009	3.83735188	4.28651431
Psmc5	-0.3851607	7.25244436	0.02214413	0.22168123	7.46877572	7.69817716	7.16815125	7.15492154	7.32927246	6.59539664
Tand17	-0.4239117	6.22202166	0.02216085	0.22173394	6.22019706	6.65928764	6.42242089	5.75866437	6.0543113	6.21719485
Trim30a	-0.7745708	7.48721117	0.02218206	0.22173398	8.20581079	7.60653035	7.8114856	6.6808517	7.49114671	7.1277789
9330133O14F	-0.4641853	5.60731139	0.02221081	0.22173398	5.62914731	5.7723191	6.11674567	5.10145946	5.61834313	5.40585367
Skz25a16	-0.7145487	5.76093259	0.02219048	0.22173398	6.39574094	6.27845477	5.68042508	4.94986923	5.99052877	5.27057679
Pafah1b	-0.6310229	7.03452068	0.02216048	0.22173398	7.39914484	7.1789375	7.47201411	6.16005965	6.7867743	7.2101937
Eif3h	-0.435609	9.73034811	0.02219173	0.22173398	9.77489192	9.91605284	10.1535313	9.14260419	9.73105447	9.66397488
Wdr33	-0.3913185	6.69855043	0.02221924	0.22173398	6.65139245	7.00343821	7.02779832	6.33316836	6.64002154	6.51548369
Galt2	-0.5676253	5.23860462	0.02224453	0.22184919	5.50129463	5.48253168	5.5834255	5.4398733	5.2159786	4.50441001
Phk	0.50020009	3.74854012	0.02224959	0.22184919	3.51127985	3.39286389	3.59117648	4.38162551	3.83542333	3.77887146
Nup160	-0.3907082	8.26058718	0.02233772	0.22228334	6.30476666	6.51175553	6.39578669	5.86084545	6.24682712	5.93252161
D930015E06I	-0.5496471	7.3403688	0.02231553	0.22228334	7.48525067	7.74220642	7.61892991	6.45971502	7.51274874	7.22498206
Arpc4	-0.4157126	5.98943623	0.02234839	0.22228334	6.17746333	6.31554976	6.09805451	5.96253697	5.86084785	5.52216498
Mir7065	1.26184414	3.5170301	0.02234662	0.22228334	2.62690115	2.35467285	2.58076882	3.12313125	2.92217563	5.30256835
Glipr1	-0.5321117	6.34303727	0.02235116	0.22228334	6.33568362	6.55012014	6.92228566	6.01816895	6.27785567	5.93572955
Capn7	-0.7102697	6.86603066	0.02234259	0.22228334	7.40022502	6.97275337	7.29043714	6.19581974	6.97526017	6.36152653
Craacr2a	0.44786501	6.25716338	0.02236113	0.22228334	5.77011305	6.10781606	6.22176352	6.49993612	6.48735562	6.45581591
Gart	-0.4564171	6.67669559	0.02237802	0.22235797	6.7277808	7.0458028	6.94112911	5.97347402	6.65466936	6.7172939
Slfrp	-0.3767371	5.63992824	0.02242096	0.2226884	5.87834393	5.87916414	5.72738228	5.51561892	5.47883107	5.36022907
Cldn34d	0.43663592	2.6646191	0.02248228	0.22283831	2.41041612	2.5597654	2.3687219	3.03954864	2.73662217	2.87264038
Sgk1	-0.4182221	5.86642929	0.02248453	0.22283831	6.22203872	5.93977878	6.0648035	5.6184765	5.72083517	5.63264279
Gm12250	-0.9628315	6.33137153	0.02246696	0.22283831	6.58387502	6.79494337	7.05954347	4.56799259	6.55145094	6.43042381
Ubez21	-0.3905158	5.83043671	0.0224634	0.22283831	6.0833808	6.08312978	5.91057326	5.56501199	5.7565813	5.5839431
6720489N17F	-0.4361561	4.41998904	0.02244709	0.22283831	4.45328237	4.84559084	4.61532804	4.22828276	4.16079321	4.216657
Arhgef6	-0.6338962	6.3203865	0.02252209	0.22311436	6.64460433	6.50402316	6.76337627	5.39077073	6.19749269	6.42220522
Cops2	-0.6798684	5.52059513	0.02254096	0.22320502	5.49090919	6.23145211	5.88922677	4.59868669	5.09047596	5.88819888
Gm14325	-0.5036433	6.68387521	0.02260257	0.22357224	6.46202051	7.265638204	6.95279097	6.36481555	6.51657113	6.27887103
multi	1.15739504	3.7784714	0.02255989	0.22357224	3.36084514	3.22644872	3.0102027	4.59214928	3.19572293	5.28363307
Bodl1	-0.8643227	5.90582951	0.02262457	0.22357224	6.31551609	6.0387949	6.6596616	7.83328379	6.06860376	5.61857692
Rippl1	0.38410767	4.98337426	0.02261794	0.22357224	4.75716227	4.74796396	4.86883505	5.19834927	5.0336678	5.29426721
multi	-1.4428496	7.45114436	0.02262668	0.22357224	7.90237639	8.54797535	8.06735568	4.78697342	7.70483124	7.69735409
Mbnl1	-0.4953818	10.555203	0.02267917	0.22360426	10.681591	10.7260075	11.0010832	9.83927689	10.5653623	10.5178971
Uba6	-0.4928842	5.17452477	0.02270455	0.22360426	5.7657076	5.52534259	4.97104048	4.89604573	5.13590224	4.75149001
Vmn1r171	0.54208679	2.18569746	0.02269812	0.22360426	1.9114239	1.89515686	1.93766295	2.86039757	2.01938674	2.49043825
Hnrnp1	-0.3901401	7.67828616	0.02267584	0.22360426	7.71243879	7.94794739	7.9568242	7.39177978	7.61846144	7.43940713
Osgin1	0.42861856	5.15489211	0.02270064	0.22360426	4.93647392	4.88260371	5.00267086	5.61748399	5.17747601	5.31264418
4930579K19F	0.40466664	4.0149325	0.02266687	0.22360426	3.55833909	3.85691182	4.02254661	4.06177612	4.34708582	4.2429355
Fycod	-0.4960548	6.60326617	0.02270776	0.22360426	6.65686351	6.61558528	7.28143199	6.27686033	6.3887516	6.40010432
Eif2s1	-0.6818643	5.93487988	0.0226655	0.22360426	6.36074996	5.98003517	4.848665098	5.12428008	5.93513796	5.72242512
multi	1.39557852	3.								

Mir6398	0.40985945	4.3587237	0.02322473	0.22598439	4.2205491	4.21669518	4.02413764	4.77758644	4.42557244	4.4878014
Nat8	0.8443893	4.00972831	0.02323381	0.22598439	3.87553206	3.83255215	3.74174323	4.16411027	4.2136321	4.22810096
Wdr44	-0.4036412	5.13934708	0.02324445	0.22598439	5.13540847	5.44450846	5.44358612	4.63706448	4.94630772	5.2292072
Fam8a1	-0.7410278	5.31739879	0.02324095	0.22598439	5.40144783	5.25769308	6.4045971	4.98815581	4.96975071	4.88274821
Rpf2	-0.7305927	6.1229783	0.02328743	0.22621088	6.81679269	6.61896834	6.02906294	5.63290531	6.65391833	6.8622216
Gm3873	-0.6121732	7.29265661	0.02328586	0.22621088	7.57731051	7.70525861	7.5458747	6.38544602	7.26693445	7.30826199
Mettl5	0.39444094	5.19943182	0.0233122	0.22630484	4.71435834	5.26281398	4.76546173	5.06376107	5.81209708	5.31409871
Mir744	0.39974634	3.58265591	0.02331679	0.22630484	3.40890228	3.18150532	3.5579406	3.98608791	3.49572728	3.86577203
Epm2aip1	-0.9487846	5.4091453	0.02336606	0.22666371	5.85080954	5.69437249	6.10543074	4.58662377	5.7887948	4.42884048
Limd2	-0.3805572	6.96515469	0.02337349	0.22666371	7.00670521	7.2819068	7.18068787	6.65175857	6.80815836	6.86771134
Cxcl7	0.42411642	5.03056604	0.02339728	0.2267987	4.7859427	4.80140383	4.86816696	5.34902595	5.33521467	5.04360213
Gm6787	0.46354969	4.21613927	0.02345633	0.22727527	4.05505622	3.91972495	3.97831213	4.82088947	4.09849135	4.42436154
Sesn3	-0.5237795	6.98649319	0.02349624	0.22747009	6.73498112	7.25874811	7.75141959	6.32850623	7.0515806	6.79014605
Mef2c	-0.3827909	4.7242044	0.02349464	0.22747009	4.81284458	5.10784073	4.82611426	4.49730874	4.76830147	4.33281662
Fzd8	0.43543871	2.64596498	0.02351777	0.22758271	2.52721282	2.31450294	2.44302113	3.1577405	2.82436704	2.60894548
Psmc6	-0.6152838	6.48531332	0.02354357	0.22773647	6.71123912	7.03444829	6.63317821	5.6006672	6.96370781	5.96863927
Bok	0.4044692	5.6925568	0.0236983	0.22774535	5.59610183	5.47333017	5.40133459	5.85578576	6.06733805	5.76125038
Dixf1	0.4808767	5.48199429	0.02368428	0.22774535	5.20634261	5.10547583	5.4128494	5.51454033	5.96213833	5.69061927
Atp10d	-0.57341	6.89770532	0.02359593	0.22774535	7.4132399	6.869946185	7.15052921	6.48370288	6.85280332	6.40649478
Ccd3d3	-0.4348799	7.65009209	0.02356997	0.22774535	6.71732271	7.25956053	6.92571281	6.83780464	6.60288972	6.45726213
Sgcb2b26	0.53227974	2.99409201	0.02366129	0.22774535	2.68990246	2.7529873	2.74177665	3.56966694	2.83885113	3.37217756
Ap1m1	-0.6708885	7.58910768	0.02361213	0.22774535	7.85607275	7.77019708	8.14738591	3.74712223	5.76688487	6.81013324
Bst2	-0.6050288	7.73060882	0.02362523	0.22774535	7.77680096	8.07594206	8.24662671	6.60630303	7.89100012	7.78697794
Zfp280d	-0.6388664	5.3169978	0.02370058	0.22774535	5.7180952	5.69176916	5.5056302	4.44260162	5.2744037	5.27756782
Pbdc1	0.38618246	4.02211298	0.02373034	0.22774535	3.61278137	4.24659003	3.6277486	4.10111986	4.65350963	3.89098315
multi	-0.4993246	5.65564255	0.0237182	0.22774535	5.89081652	5.79893396	6.02616407	5.07132354	5.70910154	5.33751569
Pipox	0.508908	4.49680099	0.02367801	0.22774535	4.18243588	4.25734749	4.28847261	4.76089155	5.09489612	4.3967262
Smn14	-0.4148238	7.27401624	0.0236026	0.22774535	7.31089385	7.6356053	7.4977853	7.11734601	7.06636879	7.0160989
Dock9	-0.458467	6.58379969	0.02360695	0.22774535	6.58435188	6.93071498	6.63403279	6.2395577	6.3183661	6.5057741
Tnfrsf21	0.37547012	4.69684515	0.02367656	0.22774535	4.21431546	4.53059625	4.76241857	4.63368306	4.8572681	5.16278947
Tubb6	0.40964531	5.7314258	0.02359422	0.22774535	5.54800868	5.54629015	5.4855106	6.15405404	5.78819208	5.86649924
Mir6405	0.71838872	7.43311727	0.02367786	0.22774535	5.8322226	4.79161024	4.64692724	5.72531368	4.75520488	5.69641632
Vmn2r40	0.37326282	2.58360207	0.02372013	0.22781433	2.57407482	2.26561349	2.35122369	2.92715902	2.60891694	2.77462449
Ddr2	0.5145297	3.99149584	0.02374904	0.22799671	3.75358183	3.70104186	3.74806927	4.1762415	4.63333022	3.93671034
Calml4	0.09395994	3.70502418	0.02381188	0.22821867	3.56146263	3.58378748	3.35572852	3.93719962	3.82682703	3.96513981
Depn1	-0.3898969	6.26808783	0.02380948	0.22821867	6.03064737	6.84033329	6.51808759	5.56631711	6.37600541	6.27713618
Gpaal1	0.6609595	6.10531283	0.023788	0.22821867	5.56968012	5.59261436	6.14870477	6.22969078	6.85120419	6.21704547
Adamts10	-0.45108	6.69093681	0.0238099	0.22821867	6.97377082	6.68210033	7.09333964	6.29766552	6.53655556	6.56196926
Itih2b	-0.396022	10.0545507	0.02382204	0.22822092	10.142538	10.3198004	10.2872467	9.60657998	10.04066308	9.93051027
Morc3	-0.499058	6.27965352	0.02385492	0.22844066	7.02984721	6.03304614	6.32265422	6.12007132	5.77080626	6.19949095
Stat6	-0.3247208	7.1355647	0.02387872	0.22852545	7.42650887	7.4159227	7.35134606	6.44419056	7.09928682	7.07613777
Pfkfb3	-0.4158496	7.34115924	0.02388366	0.22852545	7.24861525	7.47527706	7.92335581	6.91498692	7.20724707	7.27747333
multi	0.39652271	3.25450668	0.02416278	0.22875559	3.02253606	3.11265022	3.03398171	3.5939711	3.39065399	3.37411032
Trp	-0.4940098	7.58020456	0.0241728	0.22875559	7.82594403	7.89007615	7.76560818	6.94692406	7.69968038	7.35299458
Olfr1066	0.65132632	2.50205425	0.02417793	0.22875559	2.33063136	2.04372669	2.15481522	3.63417997	2.26320095	2.58573723
Prahc	-0.3745199	7.34980102	0.02416944	0.22875559	7.54136735	7.58871177	7.48110232	7.13822886	7.2906638	7.05873203
Ndc1	-0.4273824	5.59441478	0.02398103	0.22875559	5.91943183	5.67412613	5.83075997	5.28266886	5.49071329	5.36878862
Mir7226	0.40697117	6.48013731	0.02397919	0.22875559	5.60907148	6.2369902	6.08389351	6.73693181	6.64010336	6.6738335
Gm15800	-0.4374737	6.90360974	0.02419636	0.22875559	6.92552319	7.21093206	7.2305845	6.64030302	6.91143602	6.50287962
Cdk5	0.43632562	6.16429907	0.02419545	0.22875559	6.07680803	5.99799496	5.76433557	6.4891653	6.19761409	6.46060619
DsErdt863e	-0.4108266	2.00194504	0.02409712	0.22875559	2.29881879	2.23534608	2.3579111	2.10506662	1.75533176	1.79919679
Klfb18	0.40746844	3.48187199	0.02415972	0.22875559	3.36045673	3.17037687	3.30357972	3.75582931	3.76796039	3.30323234
multi	0.94310101	4.08690234	0.02411227	0.22875559	4.42985938	3.10570476	3.1049137	4.54159966	3.7795304	5.25584583
multi	0.94310101	4.08690234	0.02411227	0.22875559	4.42985938	3.10570476	3.1049137	4.54159966	3.7795304	5.25584583
Vmn1r175	0.68779655	2.89606725	0.02413636	0.22875559	2.61227016	2.57112845	2.47310832	4.00546619	3.01842185	2.69600855
Qrr1	-0.4323091	6.57793644	0.02393155	0.22875559	6.92011861	6.75987124	6.70180306	6.21240938	6.4684891	6.40324725
Rab8b	-0.6652541	7.03076763	0.02394238	0.22875559	7.32920214	7.57498733	7.18599461	6.6713033	6.31551409	7.0760432
Otd85	-0.4360908	6.50864665	0.02419445	0.22875559	6.69931165	6.69839126	6.78237244	6.41856661	6.39375113	6.05948682
Nap1l3	0.40767016	4.48531844	0.02405317	0.22875559	4.36833752	4.32272327	4.15338928	4.9547305	4.54203192	4.57069815
Vta1	-0.690809	6.8881725	0.02408067	0.22875559	7.11752567	6.42635037	6.65890921	5.80943522	6.36578395	5.95331911
Mir7211	0.3898796	6.47177479	0.02404065	0.22875559	6.31379626	6.25981807	6.25689064	6.855664	6.57852249	6.56597529
Nts	0.41279252	3.68929607	0.0240516	0.22875559	3.46701207	3.65672677	3.42496059	4.10095833	3.90227363	3.68384503
multi	-2.0907228	8.01608038	0.02410521	0.22875559	7.79137131	9.1722193	10.2207347	7.26213823	8.03893958	5.61107912
Mir103-1	0.37350864	3.25794567	0.02402256	0.22875559	3.14225046	2.9114959	3.15982768	3.45475273	3.2972611	3.58208612
Yy1	-0.5529497	7.00244194	0.0241749	0.22875559	7.12499622	7.41013892	7.30161516	7.07970175	6.63536845	6.46283113
Gm10436	0.48461561	2.80068363	0.02401011	0.22875559	2.68698882	2.38283102	2.60530762	3.49219449	2.52024678	3.11653303
Lpar6	-0.4221981	2.75663729	0.02401337	0.22875559	2.90349411	2.80527159	3.1944433	2.49309195	2.59417064	2.54548124
Gm10375	0.38977612	3.36739782	0.02403959	0.22875559	3.35810579	2.96929263	3.19013086	3.5988788	3.46061162	3.62736272
Mir327	0.54099492	5.46003388	0.02397919	0.22875559	5.40058618	5.26160755	4.90641552	5.93110673	5.38609108	5.87439925
Mir1941	0.49408876	4.68628773	0.02392104	0.22875559	4.46581751	4.38834578	4.46356676	5.34201073	4.57893767	4.87904722
Tdrd6	0.4299144	3.59953637	0.0240066	0.22875559	3.45516005	3.33172583	3.36685164	3.85641222	3.54248961	4.04457887
Sleg2	0.67112893	3.64633443	0.02416667	0.22885347	3.24648706	3.39294294	3.29289639	3.92189637	3.46137656	4.56242376
Snapc5	-0.4064608	5.42119181	0.02423501	0.22889722	5.372610182	6.03177659	5.46888825	4.85012044	5.83580377	4.96759995
Gm3244	-0.4303374	4.71748541	0.02424121	0.22889722	4.91957623	5.01505736	4.86332881	4.22864845	4.64161908	4.63668255
Mia3	-0.6221921	5.60153102	0.02426268	0.2290058	5.97835016	6.44372251	5.31580859	5.3369416	5.29432439	5.24003888
039400334	3.50752443	0.0243118	0.22906595	3.32647643	3.283					

Table with multiple columns containing gene identifiers (e.g., Nfat3, Gm20898, Lph) and associated numerical values across various rows, representing supplemental material for a study.

Table S3. Core enrichment of genes upregulated in T cells during chronic viral infection from GSE30962

NAME	PROBE	GENE SYM	RANK IN GENE LIST	RANK METRIC SCORE	RUNNING ES	CORE ENRICHMENT
row_0	CD81	CD81	143	0.788708389	0.023867637	Yes
row_1	RNF128	RNF128	293	0.587954223	0.039700214	Yes
row_2	CHST2	CHST2	332	0.552351296	0.059288044	Yes
row_3	FABP5	FABP5	353	0.535283148	0.07904837	Yes
row_4	LITAF	LITAF	374	0.520645082	0.09824305	Yes
row_5	MYO1E	MYO1E	383	0.518019021	0.117890954	Yes
row_6	IFITM3	IFITM3	435	0.483742893	0.13422664	Yes
row_7	PLOD2	PLOD2	455	0.473976046	0.15166411	Yes
row_8	CXCL10	CXCL10	508	0.443830013	0.1664112	Yes
row_9	AKR1E1	null	553	0.426394045	0.18085435	Yes
row_10	FCER1G	FCER1G	585	0.410784006	0.1952952	Yes
row_11	EHD4	EHD4	745	0.355614156	0.20168725	Yes
row_12	TPD52	TPD52	899	0.313978702	0.20674774	Yes
row_13	MEF2C	MEF2C	912	0.311119944	0.21821557	Yes
row_14	CTLA4	CTLA4	924	0.306608945	0.22955532	Yes
row_15	DUSP4	DUSP4	925	0.305872947	0.24137512	Yes
row_16	KIF4	null	1012	0.287171423	0.24849682	Yes
row_17	1500009L16R	null	1085	0.274209321	0.25576478	Yes
row_18	XCL1	XCL1	1142	0.267048329	0.26349565	Yes
row_19	ST14	ST14	1215	0.255814731	0.2700528	Yes
row_20	FLNB	FLNB	1275	0.245914012	0.2768283	Yes
row_21	NDRG1	NDRG1	1276	0.245886594	0.28633004	Yes
row_22	AIM2	AIM2	1342	0.236681789	0.2924714	Yes
row_23	TXNDC12	TXNDC12	1432	0.224031731	0.29701453	Yes
row_24	SERPINE2	SERPINE2	1477	0.218334422	0.30341768	Yes
row_25	MELK	MELK	1509	0.214980364	0.31029212	Yes
row_26	NAPSA	NAPSA	1588	0.20547235	0.31462654	Yes
row_27	ETV5	ETV5	1589	0.205449611	0.3225657	Yes
row_28	SKAP2	SKAP2	1598	0.20454134	0.33009994	Yes
row_29	STARD3NL	STARD3NL	1612	0.203077421	0.3373465	Yes
row_30	OPTN	OPTN	1629	0.201732829	0.3444024	Yes
row_31	SPATS2	SPATS2	1644	0.201107264	0.3515266	Yes
row_32	SLC37A2	SLC37A2	1656	0.200336292	0.35875967	Yes
row_33	EGR2	EGR2	1725	0.19406867	0.36311567	Yes
row_34	TOX	TOX	1760	0.190972939	0.36892375	Yes
row_35	GCA	GCA	1763	0.19081451	0.3762049	Yes
row_36	HELLS	HELLS	1804	0.186518192	0.38156345	Yes
row_37	STAU2	STAU2	1805	0.186458766	0.38876873	Yes
row_38	SNX9	SNX9	1845	0.182801962	0.39402992	Yes
row_39	HMGN3	HMGN3	1887	0.17864272	0.39903793	Yes
row_40	1700017B05R	null	1949	0.17451556	0.40296194	Yes
row_41	KIFAP3	KIFAP3	2184	0.159593657	0.39831227	Yes
row_42	PDCD1	PDCD1	2194	0.159010082	0.40404084	Yes
row_43	DYNLT3	DYNLT3	2615	0.135916874	0.38987827	Yes
row_44	PCTP	PCTP	2618	0.135798112	0.39503345	Yes
row_45	SYPL	null	2661	0.13373816	0.39825997	Yes
row_46	CD83	CD83	2701	0.132024661	0.40155897	Yes
row_47	LPGAT1	LPGAT1	2809	0.127385706	0.40153536	Yes
row_48	MPP6	MPP6	2852	0.12545298	0.40444174	Yes
row_49	CRMP1	CRMP1	3087	0.116527557	0.39812788	No
row_50	HOOK1	HOOK1	3096	0.116295762	0.40225208	No
row_51	TACC2	TACC2	3246	0.110521235	0.39963531	No
row_52	ART3	ART3	3286	0.108761556	0.40203536	No
row_53	CORO2A	CORO2A	3395	0.10516201	0.40110675	No
row_54	GCSH	GCSH	3621	0.09756241	0.39447606	No
row_55	IPP	IPP	3644	0.096573584	0.39719096	No
row_56	UHRF1	UHRF1	3740	0.094913788	0.39646727	No
row_57	ST6GAL1	ST6GAL1	3748	0.094715051	0.39980373	No
row_58	CPTA	CPTA	3864	0.091409805	0.39802325	No
row_59	DIAPH3	DIAPH3	4095	0.085591979	0.39066885	No
row_60	RBMXL1	RBMXL1	4238	0.082113199	0.38730788	No
row_61	TNFRSF9	TNFRSF9	4260	0.081447192	0.3894845	No
row_62	CHEK1	CHEK1	4267	0.081323855	0.39234972	No
row_63	PTGER2	PTGER2	4322	0.080156609	0.392951	No
row_64	SEMA4C	SEMA4C	4336	0.079862513	0.3954362	No
row_65	FILIP1	FILIP1	4379	0.078901418	0.39654368	No
row_66	BCAT1	BCAT1	4393	0.078339875	0.39897004	No
row_67	TOX2	null	4640	0.073210351	0.39042756	No
row_68	MAD2L1	MAD2L1	4701	0.071906097	0.3904327	No
row_69	IRF8	IRF8	4735	0.071188562	0.39165816	No
row_70	RTP4	RTP4	4926	0.06682568	0.3854576	No
row_71	TBC1D31	null	4945	0.066384465	0.38719085	No
row_72	BCL3	BCL3	4994	0.065594196	0.38750675	No
row_73	CASP3	CASP3	5034	0.06483534	0.38820937	No
row_74	ADK	ADK	5104	0.063290566	0.3874655	No
row_75	FIGNL1	FIGNL1	5345	0.059111893	0.3786556	No
row_76	UBASH3B	null	5348	0.059059516	0.38084537	No
row_77	LAG3	LAG3	5409	0.057852533	0.38030744	No
row_78	RG810	RG810	5472	0.056633797	0.3796299	No
row_79	PSMC3IP	PSMC3IP	5620	0.054102976	0.37492543	No
row_80	PSMD12	PSMD12	5671	0.053257149	0.37467217	No
row_81	JAZF1	JAZF1	5856	0.050037898	0.36810026	No
row_82	FRMD4A	FRMD4A	5869	0.049828779	0.36947107	No
row_83	ZFP518B	null	5918	0.049007364	0.36914602	No
row_84	SYNPO	SYNPO	5976	0.048015259	0.3683666	No
row_85	BLM	BLM	5992	0.047784936	0.36951974	No
row_86	SLC25A13	SLC25A13	6105	0.045985505	0.36611947	No
row_87	GAS2	GAS2	6160	0.044889849	0.36535797	No
row_88	BM11	BM11	6446	0.040717669	0.35375708	No
row_89	CTPS	CTPS	6514	0.039709996	0.3521945	No
row_90	GLDC	GLDC	6582	0.038782518	0.35059604	No
row_91	TFDP1	TFDP1	6763	0.036386296	0.34368148	No
row_92	PHLPP1	null	6812	0.035817001	0.34284672	No

row_93	FANCD2	FANCD2	6847	0.035394736	0.34264278	No
row_94	SET	SET	7289	0.029634673	0.32340243	No
row_95	ZAN	ZAN	7678	0.024675181	0.3064204	No
row_96	MAP2	MAP2	8223	0.018318336	0.2819815	No
row_97	CCDC58	CCDC58	8229	0.018250661	0.28245562	No
row_98	HAT1	HAT1	8251	0.017884035	0.282176	No
row_99	PEX11A	PEX11A	8377	0.01641323	0.27703202	No
row_100	PSAT1	PSAT1	8561	0.014527083	0.2691341	No
row_101	NRGN	NRGN	8787	0.011874858	0.2591922	No
row_102	NCF1	NCF1	9148	0.00800042	0.24286011	No
row_103	HSPA9	null	9513	0.004469261	0.22620668	No
row_104	TARSL2	TARSL2	9541	0.004291567	0.22512442	No
row_105	SPOCK2	SPOCK2	9765	0.001790189	0.21488526	No
row_106	CDK2AP1	CDK2AP1	9835	0.001228117	0.21174316	No
row_107	RAD51	RAD51	10210	-0.002779731	0.19456217	No
row_108	KPNA2	KPNA2	10363	-0.004479499	0.18770897	No
row_109	RANBP1	RANBP1	10929	-0.010450421	0.16199529	No
row_110	TMM8A1	null	11203	-0.013607582	0.14990152	No
row_111	TFDP2	TFDP2	11408	-0.015561066	0.14107281	No
row_112	NEK2	NEK2	11520	-0.016735945	0.13658848	No
row_113	BST2	BST2	11641	-0.017723316	0.13172628	No
row_114	FAM81A	FAM81A	11891	-0.020231085	0.120997876	No
row_115	FAXC	null	11910	-0.020456402	0.12095631	No
row_116	GMPS	GMPS	11930	-0.020692367	0.12087763	No
row_117	GCNT1	GCNT1	12233	-0.02346704	0.10782431	No
row_118	FEN1	FEN1	12322	-0.024240831	0.10469318	No
row_119	SMCO4	null	12495	-0.026680506	0.097750194	No
row_120	DDIT4	DDIT4	12745	-0.028753988	0.08735136	No
row_121	CCNA2	CCNA2	12821	-0.029574137	0.08502704	No
row_122	PAQR4	PAQR4	13026	-0.031806529	0.076826096	No
row_123	CDC27	CDC27	13073	-0.032357648	0.0759501	No
row_124	PSPC1	PSPC1	13268	-0.034558382	0.068317756	No
row_125	RNASEH2B	RNASEH2B	13460	-0.03682059	0.060911503	No
row_126	DUT	DUT	13715	-0.040185392	0.05072306	No
row_127	PLK4	PLK4	13731	-0.040487185	0.051594213	No
row_128	UMPS	UMPS	13964	-0.043420583	0.04254775	No
row_129	CDK6	CDK6	14252	-0.047032036	0.031098433	No
row_130	RAD54L	RAD54L	14563	-0.050888006	0.01873493	No
row_131	RFC4	RFC4	14923	-0.055749577	0.004294234	No
row_132	C1QBP	C1QBP	15003	-0.056659386	0.002831884	No
row_133	SLC6A13	SLC6A13	15103	-0.057834409	4.90E-04	No
row_134	SMYD2	SMYD2	15215	-0.059191868	-0.002353284	No
row_135	INPP4B	INPP4B	15379	-0.061632875	-0.007506401	No
row_136	KNSTRN	null	15568	-0.064132407	-0.013718571	No
row_137	CDC6	CDC6	15706	-0.066028103	-0.017499976	No
row_138	MBOAT7	null	15729	-0.066303179	-0.0159548	No
row_139	VAMP5	VAMP5	15771	-0.066803232	-0.015268588	No
row_140	NAA50	null	15815	-0.067361638	-0.01465325	No
row_141	EIF1AX	EIF1AX	16101	-0.071481541	-0.025063318	No
row_142	SPAG5	SPAG5	16212	-0.073044844	-0.027327485	No
row_143	ID3	ID3	16213	-0.073046513	-0.0245504762	No
row_144	SGOL1	SGOL1	16236	-0.073405765	-0.022685122	No
row_145	HMGB3	HMGB3	16277	-0.073860519	-0.021679971	No
row_146	MIS18BP1	null	16324	-0.074683577	-0.02092037	No
row_147	MMD	MMD	16343	-0.07593657	-0.018832808	No
row_148	ARHGAP11A	ARHGAP11A	16517	-0.077457324	-0.02385668	No
row_149	PCGF5	PCGF5	16535	-0.077724546	-0.021639021	No
row_150	CDC14A	CDC14A	16714	-0.080415443	-0.026759712	No
row_151	MTHFD2	MTHFD2	16887	-0.083300948	-0.031491544	No
row_152	CELF2	null	16961	-0.084579408	-0.021539783	No
row_153	SPC25	null	16974	-0.084705472	-0.028879432	No
row_154	CCR9	CCR9	17023	-0.085403867	-0.02779802	No
row_155	SHCBP1	SHCBP1	17102	-0.086864851	-0.02804692	No
row_156	CBLB	CBLB	17111	-0.086967006	-0.025056075	No
row_157	FKBP5	FKBP5	17161	-0.08763057	-0.023934843	No
row_158	NOF58	null	17180	-0.087956049	-0.021368036	No
row_159	TRIP13	TRIP13	17250	-0.089578286	-0.02109605	No
row_160	IL21	IL21	17596	-0.095047253	-0.03334783	No
row_161	OXSRI	OXSRI	17688	-0.097402319	-0.033790465	No
row_162	PWP1	PWP1	17984	-0.103131004	-0.04344177	No
row_163	CEP128	null	18098	-0.105763197	-0.04457828	No
row_164	CMSS1	null	18102	-0.105841771	-0.040626936	No
row_165	RAD18	RAD18	18342	-0.110826619	-0.04739222	No
row_166	CCNB2	CCNB2	18353	-0.110970825	-0.043566253	No
row_167	SUV39H1	SUV39H1	18532	-0.115568578	-0.047328528	No
row_168	SRFBP1	SRFBP1	18829	-0.122851729	-0.05626399	No
row_169	KIF22	KIF22	19233	-0.133842841	-0.06972087	No
row_170	D630039A03	null	19370	-0.13816537	-0.07066847	No
row_171	RSAD2	RSAD2	19385	-0.138496354	-0.06596374	No
row_172	MYC	MYC	19432	-0.140184641	-0.06267299	No
row_173	UTP6	UTP6	19669	-0.14874281	-0.06783441	No
row_174	LAP3	LAP3	19685	-0.14901194	-0.062769555	No
row_175	BCAP29	BCAP29	19717	-0.149685889	-0.058418266	No
row_176	TAMM41	null	19781	-0.152065039	-0.055454265	No
row_177	UCHL5	UCHL5	20134	-0.165736809	-0.06532116	No
row_178	CENPK	CENPK	20180	-0.167912632	-0.060912706	No
row_179	TFRC	TFRC	20212	-0.169425488	-0.055798624	No
row_180	ATAD5	null	20260	-0.172003865	-0.05132452	No
row_181	DTL	DTL	20394	-0.178101346	-0.0505902	No
row_182	ITM2A	ITM2A	20665	-0.194680586	-0.055548124	No
row_183	BUB1	BUB1	20790	-0.203643084	-0.05341077	No
row_184	NANP	NANP	20923	-0.214303672	-0.051231258	No
row_185	CENPP	CENPP	20945	-0.215845704	-0.04386113	No
row_186	RCS1	RCS1	21015	-0.222257361	-0.03846204	No
row_187	HSH2D	HSH2D	21033	-0.223787621	-0.030600091	No

row_188	NCAPG2	NCAPG2	21082	-0.227634519	-0.024022488	No
row_189	XRCC2	XRCC2	21380	-0.267074287	-0.027431011	No
row_190	CKAP2	CKAP2	21392	-0.269400865	-0.017529089	No
row_191	CD160	CD160	21520	-0.296975434	-0.011923784	No
row_192	EXO1	EXO1	21597	-0.320878863	-0.003037275	No
row_193	MYB	MYB	21647	-0.351337463	0.008274333	No

Table S4. Genes differentially expressed between splenic TCRmsn cells isolated from control or anti-PD-L1 treated mice at day 8 post T cell transfer; all genes p<0.15, adj

SYMBOL	logFC	AveExpr	P.Value	adj.P.Val	Ig1_D8_KI196_D8_KI220_D8_KI223_D8_KI49_Spl_10.L43_Spl_10.I00_Spl_1045
multi	1.15353571	4.74650047	0.00031779	0.14015611	5.32738812
H2aIe	1.08023055	4.72563803	0.00037253	0.14015611	5.32299227
multi	0.91286631	4.68304304	0.00085192	0.14892009	5.20634734
H2ahIh	0.76112859	4.65176204	0.00061994	0.14015611	4.85559366
H2ahIj	0.75392658	4.11158109	0.00056194	0.14015611	4.62823012
H2ahIh	0.63584909	2.76256461	0.00037921	0.14015611	2.93022836
Zfp869	-0.5442501	5.65120049	0.00058641	0.14015611	5.38706511
Dhx30	-0.5466128	6.0877352	0.00075616	0.14632304	5.90985465
Phb	-0.5565766	8.00463717	0.00069039	0.14235925	7.90789895
Vdact	-0.5835737	5.5583909	0.00044083	0.14015611	5.38389691
Mmaa	-0.584755	4.73290662	0.00082812	0.14892009	4.54596239
Mtor	-0.6085743	6.05367666	0.0006777	0.14235925	5.79026994
2410131K14Ri	-0.6171553	5.46503537	0.00038821	0.14015611	5.21828127
Trmt61a	-0.6238488	6.17031234	0.00054049	0.14015611	5.92889417
Gtfa2a	-0.6530109	4.81048012	0.000403	0.14015611	4.40627192
Acp3	-0.662681	7.39424681	0.00012653	0.11556834	7.04371042
Kif1bp	-0.6698053	5.18923561	0.00085436	0.14892009	5.00300805
Vps4b	-0.6720331	6.13204672	0.00069881	0.14235925	5.82128737
Cpm	-0.6760431	4.94191656	0.00040858	0.14015611	4.83227124
Phtfi	-0.6763263	5.62371455	0.00071479	0.14317032	5.35913693
Wdsu1b	-0.6817497	4.54132685	0.00084772	0.14892009	4.18279938
Rsl24d1	-0.6886007	5.75538554	0.00069921	0.14235925	5.36385211
Cyp4f13	-0.6985961	5.45855924	0.00074118	0.14589771	5.14779953
Acp1	-0.6996726	5.52055276	9.35E-05	0.09699695	5.17608332
Spat5	-0.7046147	5.04555932	0.00059776	0.14015611	4.74667712
Lypd6b	-0.7133563	5.81456131	0.00046373	0.14015611	5.26339104
Mbtpr1	-0.7211963	6.09202386	0.00021751	0.14015611	5.88257793
Gbp3	-0.741997	5.75755607	0.0006745	0.14235925	5.62115305
multi	-0.743586	5.165676	0.00073935	0.14589771	4.9757869
Focad	-0.7480737	5.41178123	0.00067737	0.14235925	5.28848178
Vepkmt	-0.7524356	4.25398702	0.00041	0.14015611	4.06707377
2610044O15F	-0.7653429	5.75047951	0.00042557	0.14015611	5.65256416
AWO46200	-0.7679933	3.96541418	0.00031078	0.14015611	3.39368935
Heatr1	-0.7731405	6.0647771	0.00068284	0.14235925	5.60313245
Vipr1	-0.7731746	5.09257937	0.0003072	0.14015611	4.85367509
Ints3	-0.7764404	6.53653625	0.00045232	0.14015611	6.19961634
Opai1	-0.7797655	4.88233758	0.00066218	0.14235925	4.81949077
Rcd1	-0.7810319	5.17465092	0.00049322	0.14015611	4.82578084
CenpQ	-0.7937095	4.12205271	0.00035181	0.14015611	3.93938382
Cox18	-0.7943848	5.86545387	0.00027675	0.14015611	5.57265098
Aprmap	-0.7954571	4.98462285	0.00056885	0.14015611	4.8154527
Rce1	-0.7994713	5.73136565	0.00039102	0.14015611	5.33301259
Mbtd1	-0.8010273	5.57823982	0.00057495	0.14015611	5.41014562
Trip12	-0.8075125	7.27472291	0.00084251	0.14892009	6.86488091
Chmp7	-0.812517	6.05672548	0.00033715	0.14015611	5.64930545
Pikfyve	-0.8298965	4.67946528	0.00080737	0.14892009	4.21324047
Brwd1	-0.8327028	5.26012729	0.00031807	0.14015611	4.84557024
Cd55	-0.8338557	6.68449841	0.00059984	0.14015611	6.16145967
Lmtk2	-0.8367941	6.03286288	0.0001152	0.11436803	5.81348535
Mprl9	-0.840849	6.22284662	0.0007045	0.14235925	6.00149599
Dpp4	-0.8549263	6.35512868	0.00018335	0.14015611	5.89115102
Rev1	-0.863468	5.02541237	2.47E-05	0.08239061	4.58044331
Idnk	-0.8697692	8.28514411	3.32E-05	0.08239061	7.93737058
Znhit6	-0.871139	5.7219404	0.00061817	0.14015611	5.47242853
Trim44	-0.8871433	6.38045415	0.0006028	0.14015611	6.08045075
Mrops1	-0.8958343	5.1058787	0.00024459	0.14015611	4.50219992
9930021J03F	-0.9065357	4.5479452	0.00038313	0.14015611	4.20880076
Gm11423	-0.9075723	4.84978812	0.0005596	0.14015611	4.50803634
Cdc25a	-0.9095355	5.12651935	8.03E-05	0.09167689	4.67405425
Ttded23	-0.9159261	5.05339353	0.00041241	0.14015611	4.44871489
Atad2b	-0.9216397	6.09412076	0.00029088	0.14015611	5.57545164
Letm1	-0.9255353	6.05882856	0.00078226	0.14885097	5.54824397
Pum3	-0.9269321	6.93733192	0.00018693	0.14015611	6.49607026
Vps41	-0.9302037	5.48434549	0.0004407	0.14015611	5.32916291

150001K16Ri	-0.9340471	5.4741173	0.00050946	0.14015611	5.30474713	5.12362231	4.84149791	5.02537832	5.74150579	6.20179557	6.08027405
Rrad	-0.9429447	5.42399497	0.00082885	0.14892009	4.83818118	4.85275614	5.13489308	5.25362677	5.75495685	5.84958467	6.2839201
Pspect	-0.9477451	5.47582335	0.00028488	0.14015611	4.77551116	5.21910996	5.15926517	5.12470126	6.2002124	5.99640548	5.85555801
Zfp72	-0.9481133	4.49133709	0.00054274	0.14015611	4.13295946	4.04456987	4.21777747	3.94470393	4.66814474	5.24120027	5.19000341
Hdac8	-0.9585293	5.56048351	0.00055736	0.14015611	5.34131604	5.15017432	4.73994705	5.36730346	6.13054129	6.09873053	6.09537186
Ddx60	-0.9702117	4.57027963	1.45E-05	0.08239061	4.15138548	4.04102912	4.23152366	4.19396011	5.1768548	5.09117059	5.10603363
Dgkl	-0.9707319	6.59708377	0.00076812	0.14738915	6.38384356	5.9956541	5.86540341	6.47932216	7.17092441	7.00796487	7.27647388
Mospd2	-0.9745831	4.41989807	0.00083624	0.14892009	3.86075465	3.93077198	3.98622585	4.23112586	4.68999903	4.88150777	5.35890136
Fam49a	-0.9790258	7.26503552	0.00033474	0.14015611	6.90090981	6.62173789	6.68535897	7.17380556	7.95757254	7.76954801	7.7463159
Yaed1	-1.0001129	4.35344974	0.00046677	0.14015611	4.09457403	3.8276341	3.89154084	3.88557071	4.54988053	5.18465254	5.04037066
Ermpp1	-1.0061541	5.66419309	3.78E-05	0.08239061	5.33861506	5.1941077	5.1479861	5.25122791	6.30310283	6.05308623	6.3612258
Abtb2	-1.010268	6.04806177	2.17E-05	0.08239061	5.49156757	5.54979359	5.64277117	5.77622665	6.66297476	6.636189	6.57909962
Wdr48	-1.0117974	6.49444076	0.00032237	0.14015611	5.97432315	5.94422814	5.97238107	6.35231881	7.33600578	6.86208503	7.01974133
Ythdc2	-1.0141585	4.38200142	0.00020449	0.14015611	4.21570493	3.62946257	4.02091369	3.9233671	4.9290703	4.91376669	5.04172463
Emf4	-1.0247071	6.41173487	6.42E-05	0.08416141	5.99474706	6.11781656	5.77089537	6.00683976	7.11361491	6.82569327	7.05253718
Gm7160	-1.035212	6.00028813	0.00036008	0.14015611	5.54467473	5.17405154	5.64652098	5.86845608	6.65172859	6.54665348	6.58253149
Ssh2	-1.0391774	6.49655102	0.00033234	0.14015611	6.05159178	5.88722152	5.8224842	6.44346177	7.02669739	7.2003333	7.0440694
Oasia	-1.0644318	5.8155562	0.00075579	0.14632304	5.41452401	5.37921488	5.42074301	5.2230026	6.3654258	6.03656908	6.86941401
Sclt82a2	-1.0746074	7.92557202	0.0005425	0.14015611	7.71585856	7.26769529	7.1949791	7.68157109	8.80833367	8.48239471	8.33267175
Mu2	-1.0789687	5.0729095	0.00083681	0.14892009	4.99785878	4.95556711	4.31337332	4.63517809	5.86436583	5.36899672	5.83562667
Ifi80	-1.0814055	4.92457586	5.50E-05	0.08368593	4.33877126	4.57641841	4.5262723	4.4030034	5.5357664	5.74454906	5.32943993
Klf3	-1.0903815	6.95811736	0.00060774	0.14015611	6.66035031	6.74698965	6.18733857	6.36856545	7.90670614	7.47578503	7.361108636
Lclat1	-1.0947622	5.74132062	1.26E-05	0.08239061	5.37274884	5.22110894	5.15135096	5.34333847	6.26177784	6.44779609	6.3911232
Lrp6	-1.1123874	5.80043204	0.00068936	0.14235925	5.316393	5.67254355	5.44347959	4.86236218	6.24202054	6.52022067	6.54600471
Gtf2e1	-1.1169502	5.86158042	8.57E-05	0.093238	5.50108408	5.53067594	5.05489835	5.44489147	6.6180939	6.41880884	6.46261036
Pde2a	-1.1188717	7.82742657	6.00E-05	0.08416141	7.57108749	7.35277999	7.10480448	7.36296828	8.46113392	8.60051341	8.33869811
Trim30a	-1.1445904	7.36007164	0.0002241	0.14015611	7.12266567	6.56425653	6.84970444	6.94150488	8.2867968	7.84802463	7.90754854
Cnnt8	-1.1481732	6.79738162	4.33E-05	0.08239061	6.38520506	6.09497634	6.2607251	6.48032209	7.57857391	7.50556934	7.27629859
Eef1e1	-1.1541791	6.78893335	0.00012448	0.11556834	6.26735867	6.38278844	6.00531413	6.52167945	7.26874532	7.6567938	7.41985363
Arta2-ps	-1.157535	5.20164577	0.00032559	0.14015611	5.06912866	4.59844138	4.79573116	4.3589362	6.04678256	5.83763907	5.70486134
Cmah	-1.1697802	7.5970996	0.00053562	0.14015611	7.20755247	6.86166323	6.86530513	7.44854013	8.35001895	8.50566895	7.94094835
Pus3	-1.1710864	5.15964026	0.00019176	0.14015611	4.8573727	4.39856166	4.53531985	4.83973012	5.86049527	6.05646406	5.56953819
Atp8a1	-1.1860161	5.68472784	0.00036626	0.14015611	4.95395351	5.23235945	5.12287697	5.39655105	6.05227455	6.76362783	6.27145154
Mis12	-1.1990383	5.65067209	4.17E-05	0.08239061	4.97907472	5.37313613	4.9483391	5.24664424	6.3575387	6.22104942	6.42892236
Wdr5b	-1.2266707	5.14362221	0.00049673	0.14015611	5.05073354	4.25566535	4.72833314	4.43689269	5.78787606	5.66820839	6.07764632
Mu81	-1.2420203	6.11385773	0.00035593	0.14015611	5.58588452	5.98586827	5.2299884	5.52354209	6.75386186	7.09476337	6.62213021
Ccnh	-1.2429177	5.5311151	4.70E-05	0.0826398	5.12507899	4.98655897	4.82008966	5.0620024	6.35844467	6.4127079	5.95289794
Ttc32	-1.2489133	4.39915455	0.00066567	0.14235925	3.60784406	3.69212636	3.86027381	4.2953798	4.82480397	5.00915066	5.50450317
Left1	-1.251732	7.1244656	0.00013912	0.12217582	6.90929945	6.49330355	6.24626568	6.70316737	7.75417661	8.01452398	7.75052256
4930594C11R	-1.2612517	4.72865959	7.32E-05	0.08797542	4.24579496	3.92007709	4.30858618	4.27803442	5.25152995	5.73423445	5.36236006
Gm10933	-1.2728456	3.97469143	0.00021445	0.14015611	3.44039369	3.69286848	3.20332582	3.38015674	4.6876133	4.36735027	5.0511317
Enpp4	-1.2758844	5.45700492	0.00061308	0.14015611	4.44584405	5.18855222	4.99770401	5.00868903	6.59566481	6.09544601	5.99313434
Gm614	-1.3135608	5.67947779	0.00042897	0.14015611	5.23206278	5.59576362	5.01148679	4.62677946	6.50320478	6.41985241	6.3671947
Clec2i	-1.3415308	6.50198958	0.00059589	0.14015611	6.49676663	5.74666078	5.53483532	5.92992847	7.50998039	7.14173183	7.15402366
Eomes	-1.3556221	6.75324825	0.00068304	0.14235925	6.07158415	6.38163801	5.69914907	6.53669809	7.73789628	7.71306097	7.13271114
Rragb	-1.3608184	4.58997368	0.00029716	0.14015611	4.09125968	4.30045438	3.78229231	3.85305684	4.93186403	5.69600315	5.47488534
Rnf122	-1.3742924	5.3331324	0.00060749	0.14015611	4.4226663	4.78778371	5.20899306	4.55715676	5.69889514	6.23647299	6.41995882
Fam208b	-1.381601	6.72982811	0.00061796	0.14015611	5.96185024	6.47084682	5.56734856	6.55082798	7.59297476	7.5214046	7.44356384
Ms44c	-1.3821745	8.45389258	0.00021035	0.14015611	8.17032463	8.00628533	7.35992973	7.90958867	9.20461062	9.43935557	9.08715348
Sle35a1	-1.4008587	6.6516921	0.00061293	0.14015611	5.58603918	6.13590625	5.92559961	6.55775123	7.48568071	7.14367627	7.72719143
E330033B04	-1.5358783	5.2068637	5.33E-05	0.08368593	4.56502419	4.96903455	4.42627143	4.23374038	5.91051671	6.16416541	6.17884323
	-1.586715	7.61961298	0.00054351	0.14015611	7.27176607	7.35365307	6.19367758	6.9388623	8.5030934	8.59428811	8.48154035
Gm14085	-1.6223429	6.78762404	2.16E-05	0.08239061	6.21851185	5.8813287	5.84209794	6.42739836	7.58164746	7.86091914	7.70146486
Gm8369	-1.8332902	5.99436606	0.00059105	0.14015611	5.87114509	5.06169462	4.4742053	5.4276361	7.17701228	7.2184765	6.73039253
Samd3	-1.8760076	6.36991693	0.0002325	0.14015611	5.65009589	6.05276425	5.03907183	5.52172276	7.9090862	7.37871203	7.03796556
Cxcr4	-1.9599219	8.0289034	0.00051595	0.14015611	7.32245425	6.7981398	6.8348478	7.80030569	9.13431761	8.58829932	9.72395931
Snord49b	-2.0451924	6.86731004	0.0003373	0.14015611	5.64658786	6.00062167	5.59063799	6.72534857	8.37150334	8.22755193	7.50891892
Snord70	-2.2010339	3.85334075	0.0008082	0.14892009	2.65662913	3.06736024	2.00091003	3.91526283	5.12578543	5.23864518	4.96871144
Slamf6	-2.2793428	6.74275109	3.53E-06	0.0805193	6.00051941	5.90494965	5.82896478	5.32912567	8.20945592	8.082180	7.84413424
Sell	-2.287136	8.69472344	0.00032165	0.14015611	8.16194623	8.33687971	6.97718931	7.38207397	9.55444006	10.3086549	10.14188
Ilf6	-2.2928371	6.46891141	0.00037856	0.14015611	5.66862417	6.25078016	4.4436346	4.49254192	7.755789	8.59320915	8.07780089
Airt2b	-2.9902055	5.44329895	3.33E-05	0.08239061	4.52440008	3.27978623	4.19151912	4.65142378	7.13162709	7.45331239	6.86902394
Snord92	-3.0639505	4.57172995	6.63E-05	0.08416141	4.15179236	2.73412845	3.56411739	2.58439508	6.29704799	6.56786068	6.10276769
Snord98	-3.1536749	3.80132292	3.28E-05	0.08239061	2.4825271	2.36402408	3.1343861	1.81805452	5.33383819	6.23281459	5.2436159

Table S5. Genes differentially expressed in splenic TCRmsn cells +/- anti-PD-L1 at day 28, genes shown are Adj. p<0.10

SYMBOL	logFC	AveExpr	P.Value	adj.P.Val	I254_D28_K1284_PC_Spleen_Donor	I119_D28_1045_T_cell	I131_D28_1045_T_cell	I59_D28_1045_T_cell
Olfir93	1.41018442	3.09731752	3.27E-05	0.06907166	3.939552308	3.947304037	2.60949845	2.49063265
Olfir282	1.16586574	3.72197746	0.0001313	0.0804808	4.453285642	4.389708164	3.35848971	3.25038649
Neurod2	1.0507386	4.31598747	0.00021199	0.09066972	4.991956693	4.90090457	3.79117529	3.9473089
Swal3	1.01912042	2.78338887	0.00028471	0.0958629	3.3494196258	3.44022598	2.45903504	2.25947446
Magea8	0.96432675	4.33028478	0.00024317	0.09066972	4.92697775	4.890783875	3.8637597	3.97142047
Nme8	0.8825913	3.30163252	0.00023261	0.09720855	3.777843174	3.884456826	2.94793568	2.935599
Secr6a	-0.892509	6.0966275	0.00025088	0.09066972	5.5591716	5.563073041	6.46978046	6.44211551
Atrx	-0.9549158	6.36543444	0.00021631	0.09066972	5.801596083	5.783373868	6.70095369	6.80519155
Rhm39	-0.9745026	7.76410092	0.00028471	0.0958629	7.21916958	7.139629144	8.09209706	8.25120338
Tgds	-1.0066076	4.86461546	0.00025102	0.09066972	4.293838316	4.227463244	5.31727591	5.16173436
Tmem181a	-1.0291011	6.68515932	0.00024011	0.09066972	5.998423323	6.136974004	7.10983473	7.16573494
Mkl2	-1.0349965	5.88178497	0.00031338	0.09720855	5.260787057	5.260787057	6.17067418	6.42495114
Nsaa2	-1.0614289	7.72865274	0.00018349	0.08552826	7.148159494	7.035431282	8.13923724	8.087149
Zfp280d	-1.076409	5.3711662	0.00030577	0.09720855	4.636313697	4.814327919	5.83272239	5.89149372
Birc3	-1.0865467	5.96321623	0.00011625	0.07908753	5.291250338	5.331326137	6.33822739	6.41041059
Pa2g4	-1.0952417	7.78587827	0.00012572	0.0804808	7.081404334	7.176062114	8.18669563	8.28570745
mult1	-1.1132573	6.3911221	0.00021854	0.09066972	5.654335802	5.791796642	6.71267183	6.89016695
mult2	-1.1208287	7.39726113	0.00018489	0.08552826	6.830787704	6.618740079	7.82993177	7.80587942
Bdpl	-1.1230396	6.15270067	0.00015673	0.08430592	5.377036985	5.580716843	6.60195642	6.57987743
Cybb5b	-1.1235912	6.3029135	0.0002319	0.09066972	5.727167835	5.530349772	6.66208476	6.84891017
Brd9	-1.1640097	5.9199081	0.00029156	0.09633978	5.102968113	5.340036476	6.39154439	6.26621382
Cd22	-1.1667943	7.77388288	0.00019657	0.08915192	4.96425115	5.183361511	6.14838027	6.30998796
993011J21R1	-1.1698527	5.28504197	0.00090501	0.07699484	6.652403024	6.513857702	7.79638928	7.69418826
Uhapl1	-1.198654	6.7098478	0.0003214	0.09720855	5.843132167	6.138178615	7.08925047	7.30736454
Polr2g	-1.1999349	7.15387539	0.0001066	0.07699484	6.395394628	6.472434404	7.66825367	7.52932031
Ebf1	-1.2044026	5.34768276	6.44E-05	0.06907166	4.618918732	4.631594858	5.88136513	5.78462225
Rnf41	-1.2044028	5.87126775	0.00019085	0.07699484	5.057162001	5.240090095	6.30634801	6.40548093
Snw1	-1.246116	6.61975342	0.00025079	0.09066972	5.761589865	5.982577757	7.28119363	7.05444294
Cdca4	-1.2597659	6.39072266	0.00023575	0.09066972	5.490511104	5.779215086	6.92661099	6.77542336
Sfc39a6	-1.2687943	6.3049648	9.79E-05	0.07699484	5.476823887	5.610551557	6.88774882	6.70529935
Ardc1	-1.2722563	6.93304222	0.00026266	0.09205019	6.355873782	5.983503084	7.48238164	7.39621662
Exll3	-1.2871634	6.36895883	0.00025379	0.09066972	5.438783051	5.754353858	6.93301025	6.9615947
Snrp2b	-1.2925515	5.52694914	9.93E-05	0.07699484	4.713620245	4.785659998	5.92838437	6.16922858
Plk2	-1.2989041	5.88275062	5.49E-05	0.06907166	5.052612109	5.154204292	6.44978983	6.41619664
Cul4b	-1.2992437	4.94099064	6.96E-05	0.06907166	4.078002507	4.244886365	5.42507519	5.5203394
Zw10	-1.3082527	6.21862729	5.93E-05	0.06907166	5.35203803	5.515314466	6.74031304	6.77307624
Tm9sf3	-1.3089522	6.09222607	0.0002348	0.09066972	5.112431546	5.103147174	6.5713662	6.6599149
Nelf1b	-1.364766	6.79766765	5.70E-05	0.06907166	6.040356745	5.91725929	7.43492037	7.27547402
Elp2	-1.3832351	6.36321213	0.0001357	0.08090931	5.708547272	5.357855829	6.89557034	6.94996833
Soat1	-1.3860953	6.3765224	0.00014073	0.08090931	5.452930362	5.636287396	6.80229021	7.09785318
Katzb	-1.4131812	6.1365885	9.96E-05	0.07699484	5.158671986	5.418680581	6.807009	6.6370664
Pxk	-1.4151186	7.16756314	9.02E-05	0.07699484	6.261430688	6.375553306	7.77985196	7.57489991
Nup14	-1.4401699	6.60073437	4.40E-05	0.06907166	5.647041283	5.826223599	7.11733365	7.22052817
Rras2	-1.445922	6.81264527	0.0001718	0.08552826	5.795448648	6.09473554	7.30861849	7.30791997
Acpp	-1.4470425	4.91956335	5.53E-05	0.06907166	4.040065427	4.02610204	5.3850257	5.47937557
Dars	-1.4507735	6.9433965	7.17E-05	0.06907166	6.000012315	6.145789515	7.66117393	7.41616277
Impdh2	-1.4598693	6.43787017	0.00030365	0.09720855	5.33750798	5.786389194	6.89820741	7.03358205
Zfp871	-1.4706881	6.89200382	0.00020642	0.09066972	5.783542519	6.2356394	7.46911026	7.50550542
Vps25	-1.47633	7.37054076	0.00013455	0.0804808	6.29573596	6.673749508	7.99159124	7.89673328
Rnf2	-1.4919741	5.95562368	0.00023654	0.09066972	5.160901536	4.959976876	6.56372543	6.32591605
BC147527	-1.5176039	5.0324657	0.0001357	0.0804808	4.047980318	4.19582528	5.41835057	5.71756023
Fam91a1	-1.5538684	5.44094088	0.00017304	0.08552826	4.483641161	4.533598481	6.21805931	5.79421187
Erich1	-1.5942094	6.03856453	0.00017574	0.08552826	4.86965819	5.294419641	6.80722715	6.65911787
Zc3h6	-1.6388948	5.03148923	2.87E-05	0.06907166	4.11009556	3.986209178	5.63091751	5.62001409
E430025E211	-1.6446957	5.82307078	0.00031763	0.09720855	5.117026143	4.555480606	6.42601097	6.39923697
Apoahp	-1.6473144	7.02684936	0.00017633	0.08552826	5.815229436	6.261692013	7.68230282	7.81779331
Deaf5	-1.6538745	7.03581324	0.00012503	0.0804808	5.932003085	6.154974038	7.72309654	7.48000061
Fcho2	-1.6599717	6.22701519	0.00010395	0.07699484	5.225434338	5.236630017	6.63516688	7.02461568
4930594C11R	-1.6622983	4.94660468	0.00021248	0.09720855	3.751192457	4.147258947	5.50476733	5.88537724
Elm02	-1.7322825	6.50756662	3.34E-05	0.06907166	5.327546038	5.608848191	7.13569982	7.1964983
Gli1	-1.7651729	6.28064217	6.19E-05	0.06907166	5.289683333	5.15339351	6.90738344	6.84354974
Arm08	-1.8118986	5.81399051	4.22E-05	0.06907166	4.702622411	4.751080317	6.71042157	6.33858326
Jak2	-1.8621651	5.95579549	1.19E-05	0.06183338	4.786528988	4.890463912	6.64644927	6.80772143
A230046K03	-1.8883967	5.79591076	3.54E-05	0.06907166	4.700615328	4.625103153	6.67274049	6.33482699
Rictor	-1.8940835	6.4287427	7.51E-05	0.06948903	5.379958203	5.204626985	7.42734107	7.16617711
Ubl7	-1.9355422	6.24959794	1.95E-05	0.06450362	5.024685642	5.15185956	7.07031074	7.14007201
Taf4b	-2.0747844	5.33432359	1.16E-05	0.06183338	4.011049406	4.167861129	6.14958836	6.0474858
Emsy	-2.1155702	6.35709518	1.46E-05	0.06183338	4.958692152	5.216813923	7.16342652	7.32943213
Mhlp	-2.3278435	5.57287251	1.60E-05	0.06183338	4.193802519	4.158530289	6.26436091	6.58102254
Capn7	-2.3490582	6.39186075	0.00015227	0.08385645	4.623633112	5.34119851	7.49703715	7.14900486
Ids	-2.4968429	6.03684351	0.00017952	0.08552826	4.789540909	4.28793462	7.0093589	7.1682516
Gm20274	-2.5868639	5.99001302	3.87E-05	0.06907166	4.185986292	4.689803123	7.25390848	6.89073057
Stap1	-2.8630152	6.36477511	7.16E-05	0.06907166	4.288897193	5.005034786	7.27310237	7.5330864
Snord104	-2.9641701	5.68726965	6.20E-05	0.06907166	3.690405368	4.127129814	6.45249967	7.12745937
Snord72	-3.8411817	4.64819234	3.33E-06	0.06183338	2.232728189	2.454238468	6.15792009	6.46509342

Table S6. Differentially expressed genes between intratumoral TCRmsln cells post anti-PD-L1 at day 8; genes shown are p<0.05 (Adj)

SYMBOL	logFC	AveExpr	P.Value	adj.P.Val	m1 anti-PD1	m2 anti-PD1	m3 anti-PD1	m4 anti-PD1	m1 control	m2 control	m3 control
multi	4.28293598	6.88520589	0.00021898	0.02537506	9.83666211	7.45157427	9.46984367	8.1249195	4.73549007	3.32399234	5.2539593
multi	4.28293598	6.88520589	0.00021898	0.02537506	9.83666211	7.45157427	9.46984367	8.1249195	4.73549007	3.32399234	5.2539593
Snord16l2	4.28293598	6.88520589	0.00021898	0.02537506	9.83666211	7.45157427	9.46984367	8.1249195	4.73549007	3.32399234	5.2539593
Snord16l1	4.28293598	6.88520589	0.00021898	0.02537506	9.83666211	7.45157427	9.46984367	8.1249195	4.73549007	3.32399234	5.2539593
multi	3.56271038	5.41633178	0.00085807	0.03877405	8.26643071	5.66685001	8.02142798	5.87812194	3.73282566	3.38904825	3.01961791
Olfr194	3.55280526	5.16341339	0.00019726	0.02537506	7.56336319	5.68159139	7.38476931	6.11445295	2.6131263	2.76096624	4.02562432
Gm10922	3.5159096	5.08423945	0.00024318	0.02635243	7.7971073	5.56411042	7.32453747	5.67847621	3.3150258	2.95182158	2.95859739
Gm2825	3.51080901	5.21229879	0.00039159	0.02891443	7.92974292	5.59663729	7.58984383	5.75150083	3.51022317	3.18041531	2.92728214
Gm10921	3.4996718	4.96884422	0.0004889	0.0318348	7.81842116	5.34057762	7.26646395	5.44935152	3.24992464	2.88035502	2.77681563
multi	3.47763351	4.97202038	0.0004786	0.03158954	7.6797517	5.32525663	7.41701148	5.42771914	3.14463557	2.93980249	2.86996563
Rnu6	3.44372147	6.05792137	0.00032894	0.02842636	8.54007795	7.28338273	8.08380462	6.22794989	3.57877198	4.93745309	3.75402191
multi	3.33515959	6.62885446	0.00011618	0.02162389	9.1336521	7.3721833	8.56460879	7.1623901	4.82720796	4.41866795	4.92326925
multi	3.33449738	6.39359469	3.68E-05	0.02005732	8.62832767	7.41670062	8.11473961	7.13089207	3.84954144	4.75273313	4.86222827
multi	3.33449738	6.39359469	3.68E-05	0.02005732	8.62832767	7.41670062	8.11473961	7.13089207	3.84954144	4.75273313	4.86222827
multi	3.32045658	5.38306326	0.00035897	0.02891443	7.99761311	5.93689858	7.54046745	5.74948795	3.76326125	3.67613193	3.21758531
Gm8693	3.31825395	5.93226348	9.32E-05	0.02078215	8.40075006	6.64991959	7.87386546	6.49295417	4.1076341	3.94233471	4.05838628
Igk	3.26690309	5.83789785	0.00183204	0.0491209	8.54914212	5.72255352	7.55892545	7.12139331	5.23366199	3.50631587	3.17331038
Vmn1r151	3.26574561	5.19206066	0.00021892	0.02537506	7.74385431	5.50462413	7.15580077	5.96238448	3.46059967	3.11432228	3.40328988
multi	3.2620877	6.62302345	0.00021723	0.02537506	9.1490242	7.05651781	8.59541359	7.28332454	4.92223713	4.39450801	4.96020187
multi	3.2620877	6.62302345	0.00021723	0.02537506	9.1490242	7.05651781	8.59541359	7.28332454	4.92223713	4.39450801	4.96020187
Gm2012	3.25760642	5.91694449	3.88E-05	0.02005732	8.12484646	7.05813418	7.63616746	6.433098	3.59019324	4.26620335	4.30996873
multi	3.24626631	5.20649407	0.00044786	0.03083274	7.77247953	5.44827587	7.39572135	5.7742575	3.594318	3.31118098	3.20384148
multi	3.2427791	5.35053696	0.00022088	0.0254686	8.73175632	5.85955238	7.36593068	5.90395835	3.82484798	3.46549276	3.20222027
Vmn1r127	3.2258196	5.7423007	7.29E-05	0.02078215	8.20041298	6.49765271	7.45831369	6.34290678	3.85466827	3.84424779	3.99790269
multi	3.22294666	6.62510614	0.00024489	0.02641592	9.15056423	7.00875164	8.56780869	7.29835142	4.97853773	4.42224259	4.94948668
Gm7391	3.21788753	6.2578756	5.16E-05	0.02078215	8.48852166	7.15176305	8.03707714	6.87416699	3.9393793	4.66785996	4.65238436
multi	3.21380624	6.42459476	3.32E-05	0.02005732	8.59670706	7.43183246	8.09322052	7.08600112	4.05913973	4.86699719	4.83826524
Vmn1r122	3.2115851	5.50218914	0.00010249	0.02104276	7.99468039	6.8189796	7.25596032	6.07579269	3.72490249	3.86788516	3.64420531
multi	3.20995915	6.40618984	3.14E-05	0.02005732	8.54406444	7.49178115	8.07779608	7.01390481	4.06970473	4.69607127	4.95000642
multi	3.1871219	6.45519938	0.00011466	0.02162389	8.83959624	7.16774256	8.34404023	6.93285203	4.67042566	4.48939105	4.74198787
multi	3.1871219	6.45519938	0.00011466	0.02162389	8.83959624	7.16774256	8.34404023	6.93285203	4.67042566	4.48939105	4.74198787
multi	3.1871219	6.45519938	0.00011466	0.02162389	8.83959624	7.16774256	8.34404023	6.93285203	4.67042566	4.48939105	4.74198787
multi	3.17623804	5.24570158	9.23E-05	0.02078215	7.63877253	5.96900876	7.04284905	5.77167668	3.45043134	3.33597144	3.50572247
multi	3.16449685	6.3694912	2.87E-05	0.02005732	8.53191213	7.40977415	7.99943889	6.96169138	4.16749081	4.68056879	4.93556224
multi	3.16436947	6.22838439	3.32E-05	0.02005732	8.36418509	7.28119181	7.86425732	6.82860872	3.96846711	4.4568823	4.83517038
multi	3.1617647	6.97391343	0.00187535	0.04943283	9.2021497	6.74486024	9.66925077	7.49971597	5.34661705	5.00705341	5.14788159
Vmn1r159	3.15851172	5.73494382	8.18E-05	0.02078215	7.97184096	6.86851619	7.48415068	6.02985896	3.83305138	3.70930984	4.24787873
Igk	3.15566964	6.71624226	7.04E-06	0.02005732	8.36341442	8.16084082	8.02841468	7.72201852	5.64075816	4.37932956	4.71891969
multi	3.14129863	5.48932018	9.90E-05	0.02078215	7.94895957	6.21914794	7.26627034	6.00835013	3.68111898	3.47949166	3.92226652
multi	3.13810002	5.76005489	8.73E-05	0.02078215	8.16838486	6.50570532	7.4328565	6.31292435	3.89567331	3.84893711	4.15590279
multi	3.13810002	5.76005489	8.73E-05	0.02078215	8.16838486	6.50570532	7.4328565	6.31292435	3.89567331	3.84893711	4.15590279
multi	3.13348517	6.32726905	3.78E-05	0.02005732	8.50303115	7.29192233	7.93910079	6.94671079	4.06970473	4.78160196	4.75881161
multi	3.12670813	5.36854432	0.00011594	0.02162389	7.73403264	6.07819071	7.14810327	5.87392174	3.63139058	3.30655532	3.80761597
multi	3.12227072	5.76580154	4.56E-05	0.02050372	8.06054587	6.49694326	7.41128552	6.44689557	3.94943346	3.86188376	4.1336233
Gm2030	3.09104294	5.79764196	3.94E-05	0.02005732	7.86518949	7.05186403	7.43037702	6.14206805	3.7512119	4.1768694	4.16591381
multi	3.08789447	5.77590905	5.49E-05	0.02078215	8.08527037	6.50606848	7.38536182	6.42046889	3.98543739	3.8775659	4.17191048
Gm6121	3.08246058	5.8947564	4.89E-05	0.02078215	8.08772152	6.83673072	7.49133147	6.44753699	3.7115221	4.34124053	4.34771606
multi	3.07188937	4.97774082	0.0001295	0.02199192	7.3735667	5.66547055	6.6829591	5.45507302	3.1958319	3.08870281	3.38259169
Gm7697	3.03705646	5.06431167	0.00021856	0.02537506	7.21145753	6.00047405	6.83500994	5.01668766	3.40256574	3.1164232	3.46756356
multi	3.0346446	5.42434575	9.31E-05	0.02078215	7.7383117	6.08647173	7.09997567	5.9748718	3.71785495	3.56256127	3.79037314
multi	3.0346446	5.42434575	9.31E-05	0.02078215	7.7383117	6.08647173	7.09997567	5.9748718	3.71785495	3.56256127	3.79037314
multi	3.02573503	5.44979778	0.00083639	0.0384683	7.91742739	5.59629662	7.38813389	5.68430756	3.85234777	3.64613499	3.36393625
Gm14525	3.01970334	6.49000435	6.49E-05	0.02078215	8.62002693	7.35238234	8.17405888	6.99018354	4.35723346	4.97812671	4.95801857
multi	3.01287391	5.3416797	0.00061774	0.03450916	7.87693065	6.06970083	6.93013264	6.56488138	4.15376767	2.83598622	3.8703585
multi	2.99134234	5.12848362	0.00040312	0.029123	7.59358289	5.7189167	6.94932558	5.38017937	3.60535363	3.4709141	3.18116768
Speer8-psi	2.98374595	5.81094237	0.00033328	0.02842636	7.97051672	7.28793347	7.43478593	5.66552643	3.83157006	4.37726648	4.1089975
Gm6902	2.97969681	5.23746849	0.00019399	0.02537506	7.24620282	6.20080675	6.35006214	5.26085393	3.46465524	3.53046854	3.60923002
Gm5169	2.97617709	6.25599262	5.15E-05	0.02078215	8.3229876	7.02947011	7.9043376	6.86919305	4.14982916	4.87437801	4.64175284
Vmn1r115	2.9749862	6.18705956	0.00023401	0.02624762	8.61955748	6.93853179	7.75597091	6.5341544	4.36241713	4.24907089	4.84971432
Slx	2.97283528	6.06914175	4.42E-05	0.0209375	8.13144082	6.85739465	7.7412968	6.64272378	4.09416069	4.62174979	4.39525271
Vmn1r112	2.97102526	5.24843877	6.48E-05	0.02078215	7.54069203	5.9979216	6.69583604	5.85249157	3.66334387	3.35283629	3.63594997
Gm14347	2.96053413	4.61153722	0.00069429	0.03616409	6.82189707	5.15236521	6.87361703	4.67347092	2.8853248	3.03068639	2.84339909
multi	2.94060775	4.81011145	0.00025563	0.0268002	7.17535695	5.40871241	6.52301625	5.17440205	2.93331818	3.0697251	3.38624922
multi	2.94060775	4.81011145	0.00025563	0.0268002	7.17535695	5.40871241	6.52301625	5.17440205	2.93331818	3.0697251	3.38624922
multi	2.91806929	5.35295364	0.0063297	0.03486078	7.89316019	5.01119519	6.8498994	5.65996428	4.19367241	3.04431253	3.81847169
multi	2.91637169	5.13139107	0.00035559	0.02891443	7.3782392	6.00833701	6.9844236	5.15405879	3.40347368	3.39703881	3.59416638
Vmn1r103	2.91387313	5.15949551	0.00064319	0.0350935	7.57226145	5.16544734	7.06092796	5.83455636	3.55514967	3.47255222	3.45557355
multi	2.90198892	4.71535621	0.00012394	0.02195948	6.93506518	5.21966227	6.3921484	5.28908712	3.07257131	2.96430249	3.13435668
multi	2.90198892	4.71535621	0.00012394	0.							

Olf1r11	2.77909399	4.608701	0.00019564	0.02537506	6.15746388	6.72958262	5.23822694	5.07369166	2.70785232	3.5165667	2.80243288
Vmm1r158	2.76895971	5.10262885	0.00070231	0.03636915	7.56407238	5.68320311	6.67754999	5.23247802	3.79676341	3.30085685	3.46347822
Vmm1r100	2.75993076	5.14182683	0.00027838	0.02681541	7.49042191	5.74838374	6.57844559	5.48136595	3.62247968	3.43127846	3.6404125
Vmm1r157	2.75473359	5.03269018	7.25E-05	0.02078215	7.08149189	5.89979814	6.37415389	5.49771727	3.82639548	3.1454033	3.40387036
multi	2.7472934	6.4095501	0.0002892	0.02700353	8.66280445	7.051682	7.94951997	6.68383981	5.09999206	4.76846044	4.65055196
multi	2.7472934	6.4095501	0.0002892	0.02700353	8.66280445	7.051682	7.94951997	6.68383981	5.09999206	4.76846044	4.65055196
Gm5168	2.74166468	6.06191502	8.84E-05	0.02078215	8.01882199	6.88650811	7.56865403	6.47367254	4.07839541	4.78145542	4.59279894
Vmm1r113	2.7389927	5.40414109	0.00037459	0.02891443	7.74849218	6.04227309	6.88986843	5.63134671	3.93264716	3.65996249	3.92439755
multi	2.72413086	5.21638512	0.00028427	0.02693913	6.95123269	7.11623013	6.33389829	5.13411798	3.54855328	3.69771619	3.73294726
Vmm1r79	2.71444853	5.16592675	0.00038227	0.02891443	5.78552095	5.90134445	7.59663482	6.03354712	3.71600959	3.07513774	4.0532926
Speer4cos	2.69519919	6.16271485	0.0005351	0.03256134	8.15274267	7.54931426	7.64468608	5.92445785	4.58540131	4.89366098	3.8879198
Vmm1r119	2.66839813	5.22089504	0.00094911	0.03995646	7.63427413	5.50156945	6.84230547	5.47982788	3.91970153	3.69355421	3.47503256
multi	2.66248653	6.63031305	0.00017487	0.02537506	8.50114634	7.14472673	8.4210456	7.01859614	4.97521118	5.0151586	5.33634947
multi	2.64910499	5.39632375	0.0004685	0.03133421	7.73386331	6.35367474	6.46738325	5.57169653	4.17529965	4.0303987	3.4195006
multi	2.64910499	5.39632375	0.0004685	0.03133421	7.73386331	6.35367474	6.46738325	5.57169653	4.17529965	4.0303987	3.4195006
multi	2.64551486	5.3259228	0.00052985	0.03256134	6.99349704	7.16294651	6.6208155	5.06160048	3.63831176	3.88478094	3.91950737
Vmm1r117	2.62997483	5.35258156	0.00052139	0.03256134	7.69441486	6.53394514	6.46841769	5.52234983	4.14005054	4.00430752	3.40485834
Olf1r482	2.62008128	4.01193396	8.04E-05	0.02078215	5.95261401	4.31182979	5.4143755	4.86118444	2.52016114	2.56372322	2.4603496
Vmm1r125	2.52189835	4.50132936	0.00038353	0.02891443	6.6960738	5.13342309	5.74159655	4.75747831	3.05325353	2.80354389	3.32393634
Vmm1r238	2.514717386	5.32540397	0.00061152	0.03440815	6.25629231	5.6488662	7.64628924	6.06018045	4.16558371	3.9955802	4.11205785
Gm10354	2.47538618	5.9167829	0.00012276	0.02195948	7.632026	6.94045844	7.29769767	6.04046868	4.27388422	4.49047218	4.74247314
Gm3669	2.47160501	5.58137386	0.00036943	0.02891443	7.44847597	5.89959991	7.24135497	5.93981866	4.01052257	4.67856669	4.29780517
multi	2.4711909	4.80551408	0.00057939	0.03341261	6.92895947	5.32940419	6.2231592	4.9768607	3.44717346	3.08061688	3.6524264
multi	2.4711909	4.80551408	0.00057939	0.03341261	6.92895947	5.32940419	6.2231592	4.9768607	3.44717346	3.08061688	3.6524264
Speer4c	2.45713376	5.62079692	0.00022689	0.02590667	7.41457221	6.63436338	7.01319299	5.6332884	4.02205388	4.42200962	4.40600995
Spin2e	2.4477568	5.08871304	0.00123944	0.0438243	7.16270405	5.71378191	6.65283919	5.00337103	3.34663181	3.52665168	4.1970116
Gm3669	2.43236873	5.86162377	0.00034646	0.02869891	7.76957373	6.15209025	7.43410054	6.26050552	4.32490889	4.50746155	4.58272589
Gm2165	2.43236873	5.86162377	0.00034646	0.02869891	7.76957373	6.15209025	7.43410054	6.26050552	4.32490889	4.50746155	4.58272589
Gm3669	2.43236873	5.86162377	0.00034646	0.02869891	7.76957373	6.15209025	7.43410054	6.26050552	4.32490889	4.50746155	4.58272589
Gm7982	2.41794837	5.30763221	0.00036404	0.02891443	7.38669365	5.92143454	6.5676092	5.49084583	3.95882224	3.87437657	3.94461439
Gm9758	2.40780569	5.48205759	0.00017844	0.02537506	6.9691079	6.83167099	6.80233695	5.45278142	3.86437049	4.16172098	4.2924144
Gm6523	2.39206466	5.76473579	0.0001164	0.02162389	7.63875304	6.8226745	6.48201657	6.21618134	4.76853473	4.08112114	4.34387818
Gm7958	2.38097859	4.59177833	3.41E-05	0.02005732	6.3497753	5.64473692	5.61713139	5.0171473	3.22729812	3.18907544	3.27283836
Vmm1r129	2.37315742	4.97920868	0.00024635	0.02645122	6.99871417	5.67088956	6.08916291	5.22687794	3.74861499	3.5302042	3.58873697
Gm3669	2.37236178	5.65465745	0.00039049	0.02891443	7.41721708	5.92187261	7.33120751	6.01533849	4.16089546	4.32896774	4.40720352
multi	2.37099236	6.48340439	0.00012481	0.02195948	8.260189	7.22295558	7.79362783	6.72140348	5.1035208	4.9957636	5.28637045
multi	2.36767498	4.9277902	0.0002404	0.02624762	6.94870723	5.62192013	6.00824206	5.19116279	3.71341127	3.49315175	3.5179362
multi	2.36767498	4.9277902	0.0002404	0.02624762	6.94870723	5.62192013	6.00824206	5.19116279	3.71341127	3.49315175	3.5179362
multi	2.36336956	4.82708529	3.94E-05	0.02005732	6.6031289	5.73173104	5.77267217	5.5229973	3.42371971	3.46501514	3.54103036
Gm2863	2.35812853	6.64862554	0.00187442	0.04943283	8.50901215	6.74622551	8.60760339	6.77416716	5.39326847	5.51433395	4.99576816
multi	2.35609419	4.82848181	0.00052111	0.03245815	6.80015528	5.13285631	6.31040746	5.1095268	3.22020259	3.51571759	3.41050664
Gm6902	2.35369333	5.1962637	0.00094637	0.03994288	6.56544145	7.29001692	5.82917645	5.15352281	3.7151472	4.06280946	3.77593159
Gm4297	2.33172346	5.05741959	0.00066208	0.03549404	6.97384493	5.85132807	6.32658368	5.07516189	3.2649929	3.6787044	4.15132126
4930572Oo3l	2.3316397	6.19072284	0.00019136	0.02537506	7.86228607	7.1433935	7.47729353	6.27701491	4.52616243	4.98662206	5.06228742
Olf1r1380	2.3273893	6.63734587	0.00016575	0.02506741	8.16296996	6.86224624	8.27997914	7.23399834	5.23632473	5.37764168	5.30826097
Gm3453	2.3179647	5.83763343	0.00035022	0.02876369	7.43638108	6.98856379	7.19566199	5.70358411	4.42670874	4.70410829	4.4084321
multi	2.31630392	4.95739708	9.04E-05	0.02078215	6.7569628	5.41069416	6.10590392	5.52683418	3.49567197	3.79045347	3.6152549
Gm21149	2.30941272	5.92145101	0.00076838	0.0373689	7.77043281	6.89833856	7.27129865	5.70472728	4.44283338	4.7328267	4.78619875
Speer4e	2.30147349	5.23678126	0.00023565	0.02624762	6.84239668	6.13344941	6.53001547	5.20664662	3.70074018	3.96889869	4.0953218
Gm5934	2.30024944	4.88105276	0.00026914	0.02681541	6.75144434	5.62499113	5.97179654	5.11926381	3.19199871	3.59917965	3.90869518
multi	2.29700517	4.95080721	0.00016408	0.02506741	6.82463214	5.33112023	6.11815976	5.46703985	3.57712327	3.70095241	3.63662282
multi	2.29700517	4.95080721	0.00016408	0.02506741	6.82463214	5.33112023	6.11815976	5.46703985	3.57712327	3.70095241	3.63662282
multi	2.29700517	4.95080721	0.00016408	0.02506741	6.82463214	5.33112023	6.11815976	5.46703985	3.57712327	3.70095241	3.63662282
Olf1r1381	2.29256479	7.00024781	0.00133239	0.04466897	8.77107036	7.11277841	8.85948747	7.18776605	5.83933205	5.71638571	5.51491459
1700049E17R	2.27987487	4.73011974	0.00010714	0.02161988	6.26790506	5.24075836	6.11207204	5.20296503	3.0657466	3.7848063	3.43144939
Skh1	2.27818954	4.52596563	3.88E-05	0.02005732	6.32946455	5.46528022	4.99687007	5.30771546	3.20910288	3.10683405	3.35658218
Gm3685	2.26843866	6.25637057	0.00045737	0.03115268	8.12443241	7.13757318	7.44494504	6.20728364	4.82303894	5.02597701	5.03134378
Olf1r972	2.25302689	4.30723922	2.81E-06	0.01858742	5.70177211	5.28563835	4.97831137	5.12556684	2.85829505	3.15728702	3.04380377
multi	2.25227593	6.20870751	0.00033271	0.02842636	8.06074179	7.14944754	7.24661886	6.23906633	4.90703262	5.07565974	4.78238573
Gm17019	2.24287374	6.35371946	0.00020862	0.02537506	7.76199932	7.42437766	7.71764329	6.355784	4.74848013	5.26778316	5.19996688
Gm14625	2.24162946	4.62087046	9.94E-05	0.02078215	6.36723881	5.36706414	5.65598964	4.93598262	3.20674527	3.28950835	3.52356441
Gm3383	2.22797729	6.17927491	0.00046987	0.03133421	7.94872391	6.76934134	7.51104854	6.30737549	4.6602257	5.1139549	4.7468129
multi	2.22768879	4.55420009	1.61E-05	0.02005732	6.07764753	5.57047346	5.39364648	4.99392795	3.28929235	3.21467158	3.33974126
Gm2244	2.2220064	5.86830389	0.00022391	0.02569105	7.69804448	6.69085856	6.87396547	6.02840531	4.61769576	4.73755426	4.43160342
Gm3047	2.22053623	5.62995833	0.00037671	0.02891443	7.53274281	6.3621363	6.7118245	5.71976327	4.26294442	4.39857241	4.4217263
Skh1	2.19422166	4.50007486	9.18E-05	0.02078215	6.20307791	5.35527061	5.40771466	4.79575912	3.42683589	3.11608086	3.19578499
Gm14594	2.18961731	4.40317252	4.03E-05	0.02007815	5.99316049	5.29855051	5.30652076	4.76808801	3.31523257	3.01730014	3.12326188
Gm21671	2.1758886	6.09934432	0.00025889	0.02680002	7.56157977	6.5114853	7.66523582	6.38950793	5.03073773	4.92399234	4.61320816
Vmm1r191	2.17581156	4.11371551	0.00090181	0.03970412	6.20456967	4.7850692	5.03689254	4.15829329	2.76613099	2.88684228	2.95821057
multi	2.17504385	6.44279									

Gm4541	2.14996642	4.77681367	0.00150867	0.0458877	6.88089467	4.89007136	5.91299203	5.10895334	3.65350909	3.24870686	3.74256834
multi	2.14700878	6.40720932	0.00027405	0.02681541	8.08489983	6.87638122	7.71002739	6.63811529	5.22106713	5.0132299	5.30674444
multi	2.1444663	4.35009099	0.00173757	0.0482918	6.62901912	4.86173881	5.1289298	4.45690417	3.1784124	3.13092081	3.06471183
multi	2.1444663	4.35009099	0.00173757	0.0482918	6.62901912	4.86173881	5.1289298	4.45690417	3.1784124	3.13092081	3.06471183
Gm16440	2.11835469	5.80366281	0.00030222	0.02842636	7.34655835	6.77974877	6.98738535	5.73242397	4.62165729	4.73390618	4.42395978
multi	2.11781434	5.1211301	0.00026924	0.02681541	6.4628425	6.55973924	6.02261013	5.0698674	3.95641192	3.87885929	3.89758022
multi	2.11781434	5.1211301	0.00026924	0.02681541	6.4628425	6.55973924	6.02261013	5.0698674	3.95641192	3.87885929	3.89758022
multi	2.11035339	6.08610682	0.00063154	0.03486078	7.90268443	6.94307667	7.08248648	6.03392835	4.66753453	4.9028597	5.07017756
Gm3259	2.09139893	5.46082089	0.0007725	0.03766693	7.04241088	6.15437465	6.92152139	5.31023195	4.2968166	4.18067384	4.31971694
Olfr1489	2.07984003	4.57904356	0.0011215	0.04219881	5.64578872	6.39281059	5.1661504	4.67686458	3.55174299	2.79598774	3.82395991
multi	2.07572962	5.85331427	0.00083135	0.0384683	7.63032475	6.67188776	6.93718798	5.7322502	4.50137626	4.5815918	4.9185811
Gm3278	2.07556324	5.92062276	0.0002082	0.02537506	7.5273724	6.83351225	6.88467337	5.99496143	4.78485737	4.84012192	4.57872058
multi	2.07185257	4.80605469	0.00090921	0.03970412	6.70316473	4.89337036	5.96139202	5.21803891	3.55737449	3.79395388	3.51508842
Gm8212	2.06990975	5.61380851	0.00141972	0.0448196	7.43298225	5.80439383	7.04679105	5.71948362	4.64851289	4.30863244	4.33563248
Olfr1484	2.06718681	3.96844436	3.97E-06	0.01858742	4.80484082	4.77927579	5.25643206	4.57697757	2.97223806	2.6544052	2.73494101
1700049E17R	2.0643881	4.70085434	3.50E-05	0.02005732	5.90606868	5.37964166	6.00909226	5.0475658	3.34511867	3.65076483	3.56772848
Gm3264	2.05518047	6.39332667	0.00051922	0.03245815	8.10041991	7.07580136	7.53258131	6.38767061	5.06955789	5.38680445	5.20045113
multi	2.03952694	5.21676667	0.00127696	0.0441793	6.79166699	4.95022462	6.66186775	5.95963651	4.21957471	3.98959193	3.94480145
Speerd4	2.039123	5.33352074	0.0013489	0.04466897	7.10416999	5.85100452	6.67721512	5.19733274	3.98921927	4.25526885	4.26043468
Gm5458	2.02722935	6.12118821	0.00038077	0.02891443	7.68387688	6.99523332	7.22202203	6.05887093	4.91997675	4.89592692	5.07241066
Gm5795	2.02365902	5.64498601	0.00141563	0.0448196	7.57465405	6.53991446	6.45526302	5.47924225	4.36809279	4.56935902	4.53414528
multi	2.02229916	5.36980045	0.00172974	0.0482918	7.03292701	5.30231497	6.72743643	6.16248723	4.34817713	4.18155527	4.11287041
Gm5797	2.0193191	5.45649687	0.00106366	0.04206153	7.05553117	6.20573904	6.79306711	5.23334007	4.1464779	4.32641663	4.43490621
multi	2.01351215	4.54523349	0.00032423	0.02821483	6.17960763	5.05612015	5.70235807	4.69458323	3.37719088	3.33107762	3.47569686
multi	2.01194894	5.38916719	1.85E-05	0.02005732	6.48822584	6.46911332	6.38196912	5.6664158	4.39316258	4.10771747	4.14556648
multi	2.00963592	5.03849352	5.79E-05	0.02078215	6.4913089	5.84529083	5.9348144	5.32764259	3.84612413	3.74676955	4.07749673
Gm8297	2.00879636	6.13985166	0.00053399	0.03256134	6.68793657	6.86500463	7.36159375	6.0894226	4.80609284	5.27226559	4.1259064
Olfr1385	2.0032266	4.8284318	0.00120875	0.04356069	6.61061923	4.75313584	5.49277849	5.89146106	3.27375	3.90243634	3.87484164
LOC10086161	1.99289778	6.10127311	0.00159795	0.04704794	7.94430992	6.46687169	7.28307235	6.12823467	4.83009723	5.35456036	4.70267556
Gm6460	1.99210338	5.82961655	0.00073087	0.03671338	7.36535258	6.24116992	7.24351105	5.88346702	4.74255419	4.84769392	4.45560718
Gm38418	1.98674179	5.93229621	0.00079088	0.03801274	7.68555507	6.78987909	6.81475064	5.84484311	4.62042561	4.90921041	4.86140956
multi	1.98503174	5.19405684	0.00136728	0.04469082	6.80802826	4.94955023	6.57362993	5.8479305	4.02885402	4.02731536	4.12308958
Gm3500	1.97067922	6.75348477	0.00073807	0.03675749	8.41142696	7.09173547	8.00470192	6.88438194	5.47809134	5.855143	5.54891559
multi	1.96927233	6.00681118	0.0004024	0.029123	7.5623867	6.70352503	7.1214964	6.01472449	4.75927657	5.07194812	4.81331342
Gm1979	1.96615084	5.62418136	0.0012759	0.02195948	7.1258953	6.6279182	6.65226593	5.82449627	4.48751254	4.5271804	4.37303686
Olfr823	1.95863915	4.42736056	2.74E-05	0.02005732	5.57611252	4.87223022	5.20850258	5.41026403	3.41684777	3.60154369	2.90602312
D83000k20	1.9555804	5.29869642	0.00092016	0.03970412	6.9944873	6.2811849	6.09915763	5.17237939	4.28076294	4.32233662	3.94054659
Gm3002	1.94974486	6.22756224	0.00167245	0.04809227	8.00114255	6.40188789	7.55871644	6.29092184	5.20692353	5.11993463	5.0134088
Gm10408	1.94359524	5.65984412	0.00060711	0.03440815	7.38754494	6.46349053	6.33523161	5.78498696	4.50426317	4.87782896	4.26556267
4933402N22	1.93673483	5.82095551	0.00110731	0.04219881	7.31869453	6.2040088	7.23304527	5.84819028	4.86422848	4.94951222	4.32900897
Xdh	1.93611811	3.823693681	0.00016923	0.02507136	9.62494025	9.02384703	9.32278032	8.29523924	7.12859041	7.11947346	7.14336805
multi	1.93003259	4.92297785	0.00042814	0.03000416	6.6029282	5.31022833	5.9158212	5.17156099	3.6558446	3.93866529	3.86579637
Gm3696	1.92972894	6.02254866	0.00040706	0.02913751	7.50703061	6.62608847	7.22898591	6.03622341	4.82405808	4.93959364	4.93959364
D83003k20	1.92034964	5.81066882	0.00121907	0.04363108	7.57074107	6.30299467	6.87064236	5.79032514	4.71136827	4.96859261	4.46001765
Gm14596	1.90877355	4.08173129	8.59E-05	0.02078215	5.58958531	4.62577598	4.90525635	4.47849074	3.06077912	2.87762589	3.03460651
Gm3264	1.90532858	6.77973031	0.0009351	0.03983438	8.43922408	7.39545672	7.85298436	6.69753363	5.73929203	5.84202436	5.49495996
multi	1.90471126	5.83700556	0.0002544	0.02680002	7.24517945	6.49496231	6.98530496	5.88779482	4.80905516	4.69479185	4.74195037
Gm3383	1.89670724	6.32830537	0.00087546	0.03931365	7.80227996	6.82094503	6.33119523	4.99891574	5.5313482	5.20315194	5.20315194
multi	1.89534079	3.60737159	0.00072506	0.03663821	3.97792642	4.89065118	3.97695568	4.83310872	1.90957801	2.53468998	3.12869113
multi	1.89534079	3.60737159	0.00072506	0.03663821	3.97792642	4.89065118	3.97695568	4.83310872	1.90957801	2.53468998	3.12869113
Gzmc	1.888448	6.183048	0.000113	0.021624	6.377779	7.270161	7.154422	7.167171	5.221874	5.221197	6.478713
Gm3558	1.88026822	6.18580013	0.00056474	0.03320372	7.72314395	6.75558503	7.31324589	6.17454262	5.01379349	5.15129761	5.16899234
Xdh	1.87200484	8.74065558	9.04E-05	0.02078215	10.0682558	9.4442771	9.73804993	8.9211906	7.69044227	7.74958905	7.57278427
1700091H14R	1.86775111	5.5607416	0.0018025	0.04866722	7.18305057	5.74639571	6.92749518	5.8742948	4.5556935	4.63774558	4.28692665
Gm16367	1.86596966	4.68885116	0.00025795	0.02680002	6.29393171	4.99755371	5.54796069	5.11476366	3.60046935	3.62461085	3.64266815
Gm16427	1.85771972	5.22989466	7.04E-05	0.02078215	6.53196046	5.7077614	6.28202579	5.8264075	4.11353406	4.3181833	4.07329941
Gm10408	1.85758696	5.46684216	0.00092747	0.03983348	7.20542949	6.24353977	6.05664094	5.54619323	4.44101447	4.65740809	4.11766912
5031410i06Ri	1.85013783	5.18237604	8.28E-05	0.02078215	5.98579422	5.9226404	6.57852548	5.41420889	4.15678002	4.14154158	4.07714165
Gm16367	1.85012668	4.76275083	0.00038535	0.02891443	6.4065152	5.0615915	5.63194257	5.12403215	3.67936206	3.69377234	3.74347235
Vmn1r183	1.84616088	4.21791168	0.0011217	0.04219881	5.60197751	4.92414878	5.522145	3.98822264	3.16475049	3.25150304	3.07263429
Gm3460	1.84423153	5.86658226	0.00137683	0.04476049	7.5182986	6.61163614	6.81862082	5.68605499	4.67122368	5.07252359	4.69474805
C87414	1.82854715	4.72565461	0.00027067	0.02681541	3.6066851	5.18960357	5.53860511	5.00237691	3.75098475	3.63319878	3.65812806
Gm5797	1.81798273	5.35168788	0.00164088	0.04771179	6.98054491	6.0110902	6.38860221	5.14305603	4.12844007	4.53181575	4.27826601
Vmn1r124	1.80350741	4.24649553	0.00168307	0.04816089	6.90979413	4					

Zfp980	1.69338033	5.22549091	0.00031697	0.02814171	6.25416263	5.68019275	6.49795213	5.37259384	4.47929323	4.058606	4.23563579
Gm3139	1.67771923	4.87232605	0.00167084	0.04809227	6.49061096	5.01049012	5.8308709	5.03342231	3.72914951	4.0714828	3.94025572
493055G01F	1.6683207	4.42045493	0.00031358	0.02805884	5.58927342	5.34472947	5.21087081	4.39692436	3.55209334	3.57107508	3.27821802
Xdh	1.66170335	8.76813476	0.00018505	0.02537506	9.90866206	9.51318858	9.69191069	8.80741202	7.75418636	7.93271452	7.76886908
Olfrr669	1.64673397	3.85729179	0.0017165	0.04817524	4.69940806	4.58542032	3.64449246	5.32317881	2.86832643	3.14342834	2.73718008
Olfrr553	1.63755258	3.72378952	0.00043284	0.03015351	4.77493106	4.86177817	4.47838847	3.68729338	2.79555301	3.02644407	2.52124209
Gm6455	1.62528142	5.28608028	0.00169347	0.04817524	6.50259286	5.66975102	6.54551084	5.21266312	4.60336613	4.46582312	4.00285487
Gm3106	1.58636284	4.77190928	0.00017422	0.02537506	6.00937504	5.26431225	5.52470596	5.008723	3.6916729	4.05268742	3.85188837
multi	1.58558637	5.1564093	2.55E-05	0.02005732	6.24121384	5.6476219	5.89258751	5.56236202	4.3468073	4.20271978	4.20155278
multi	1.58027932	5.46352535	0.00023599	0.02624762	6.59845026	5.99998149	6.42624866	5.53847127	4.56387573	4.60763323	4.51001684
Gm17026	1.5771631	5.49933271	0.00170825	0.04817524	6.86757463	5.91013802	6.54471594	5.37861042	4.65856728	4.74047345	4.39524922
Gm3139	1.56790088	4.68314914	0.00129601	0.04422927	6.20354665	4.8220173	5.47096463	4.92389805	3.6510026	3.89996119	3.81065355
multi	1.55149239	3.38973353	0.00021194	0.02537506	4.29944997	4.05255872	4.44892779	3.41769889	2.54350166	2.48679265	2.47920504
Gm3139	1.54324256	4.4364365	0.00132928	0.04466897	5.9669132	4.58828229	5.15281313	4.68929605	3.42189448	3.65606847	3.58578789
4933406F09l	1.52776301	3.69227733	0.0008109	0.03842244	4.98150743	3.98622324	4.65960808	3.76079286	2.75216357	2.85098094	2.85466517
multi	1.52278462	4.28625572	6.87E-05	0.02078215	5.36707681	5.00593868	4.84365671	4.53883858	3.55898923	3.32808874	3.36120126
1700023F02F	1.52287229	4.3544327	0.0001494	0.02428501	5.16066698	5.12382147	5.32437673	4.41847274	3.63458676	3.45484644	3.36425508
Speer4b	1.51452724	4.73896748	3.70E-05	0.02005732	5.61834034	5.52834055	5.48026544	4.92525603	3.85182448	3.9106946	3.85805096
Vmmr168	1.51183645	4.04688429	0.0005739	0.03341621	5.8930362	4.31851654	5.02541912	4.24601741	2.89206292	3.2289339	3.42793643
Olfrr1346	1.50794827	7.28082979	0.00152096	0.0458877	8.45641151	7.75795988	8.36938306	7.12461886	6.26305118	6.58723086	6.40715314
multi	1.47872893	4.91437267	0.00027975	0.02683664	5.91781121	5.55946206	5.78005115	4.93513014	3.90271971	4.20615241	4.09928201
Mrgpr1a	1.47430145	4.91308228	0.00067176	0.03549404	5.98820233	5.28787206	5.94608644	4.95754221	3.9659158	4.29296566	3.95371378
Csprs	1.46120249	5.78313403	0.00114857	0.04252446	7.10034337	6.27426143	6.48476929	5.7780806	4.90045615	5.20000888	4.74401852
Olfrr320	1.42938173	5.40575512	0.00034821	0.02869891	6.05375545	5.83596605	6.4786396	5.70529807	4.27591548	4.9915194	4.4994618
Sfiu	1.42820314	6.98965215	0.00069265	0.03616409	8.18068054	7.25668275	7.8185325	7.15206106	6.14901355	6.39305687	5.978538
Gm7361	1.42128251	5.48457452	0.00044561	0.03076842	6.54079122	5.82062674	6.41267292	5.6006912	4.51075444	4.70683888	4.79964593
Gm5444	1.40944794	4.12716199	7.93E-06	0.02005732	4.72236817	4.79652707	4.91081818	4.50585558	3.22559443	3.21760892	3.42514275
1700029F12R	1.39468655	4.97032681	0.00076849	0.0373689	5.83552331	4.63366635	5.97311697	4.84719182	4.14601684	4.28374925	4.09032311
Gm21637	1.39438792	4.87180716	0.00056945	0.03322928	5.59484199	5.68611536	5.78893851	4.80771209	3.86993556	4.05874978	4.29635684
Olfrr472	1.38661827	3.62831161	0.00189333	0.04296425	4.68668751	4.35504071	4.15700029	4.52590819	3.0592031	2.863339	2.61233487
Olfrr1282	1.38615141	3.97756035	0.00146748	0.04561646	4.95255871	4.57949967	4.98621132	3.76823129	3.12865852	3.29038428	3.1373787
Gm3643	1.38292786	3.81396793	0.00170973	0.04817524	4.94386082	4.40370453	4.86025527	3.78544367	2.92495986	3.09416956	3.05204089
4930503E14F	1.37581727	4.20693362	0.00114965	0.04252446	5.27739494	4.15431129	5.15066595	4.6067862	3.24697633	3.61440904	3.40087159
Gm19422	1.37405873	6.12938446	0.0004985	0.03196834	6.95503912	6.39230687	7.16455687	6.36026423	5.64858188	5.12644394	5.25759832
Platr5	1.3526662	6.11435142	1.79E-05	0.02005732	7.35209428	6.66204742	6.9060309	6.45178074	5.31576566	5.48405157	5.22438069
Olfrr1314	1.34947418	3.48733266	0.00118305	0.04296425	4.58705563	4.23329977	3.39163624	4.05072329	2.66370343	2.95312195	2.53178829
Gm8165	1.34877726	5.25393788	0.00140376	0.0448196	6.44923531	5.6111425	6.0783463	5.207057	4.49718581	4.58935805	4.3764602
Olfrr36	1.34132137	3.41558027	0.00115595	0.04252446	4.4611332	3.37442553	3.81110224	4.31506818	2.78114775	3.16702249	2.4051625
multi	1.33768302	5.07956121	0.00020006	0.02537506	6.14231464	5.45517497	5.70656604	5.30736007	4.0182996	4.32165103	4.22203174
Olfrr963	1.33740669	3.66948288	0.00051806	0.02345815	4.61709466	4.03135527	4.60967475	3.71250402	2.94814049	2.90641875	2.86119221
Gm16233	1.32942507	5.35921491	0.00083439	0.0384683	6.21869549	6.33577	5.9144994	5.24690915	4.59908467	4.58314618	4.61639948
Vmmr197	1.32875131	4.00489684	0.00128841	0.0442198	5.07964488	4.05919191	4.9672145	4.19139546	3.34796087	3.25365627	3.13521398
multi	1.32263201	4.64426727	0.00108468	0.04217461	5.88114276	5.22890891	4.65639413	5.07799243	3.82064927	3.91444372	3.93033966
multi	1.32263201	4.64426727	0.00108468	0.04217461	5.88114276	5.22890891	4.65639413	5.07799243	3.82064927	3.91444372	3.93033966
multi	1.27732975	4.62329698	0.00113998	0.04242225	5.50366934	4.56267479	5.51807778	5.09847416	3.60487562	4.00505701	4.07025019
multi	1.27732975	4.62329698	0.00113998	0.04242225	5.50366934	4.56267479	5.51807778	5.09847416	3.60487562	4.00505701	4.07025019
Cypt14	1.27244775	3.55063646	0.00086239	0.03881916	4.69027735	4.21744064	3.66831616	3.80785071	2.72498386	2.83287492	2.91271161
Mir467f	1.27038797	10.6034437	0.00061661	0.03450916	11.5447345	11.0620217	11.3207613	10.6640654	9.6891892	10.1801798	9.76316324
Mir669b	1.26592028	4.85303347	0.00019058	0.02537506	5.64516239	5.62791486	5.24379765	5.06540804	4.05459405	4.38407753	3.95027978
Leoc3	1.2627497	6.28822796	0.00056534	0.03320372	6.78755561	6.54534446	7.38042711	6.60420842	5.44704316	5.83057357	5.42235337
Olfrr1167	1.262442	4.2195247	0.00041257	0.02932682	5.00082521	4.23879828	5.1121362	4.69065904	3.49075348	3.59910482	3.40461283
Olfrr961	1.25232682	3.66147896	0.00051765	0.03245815	4.23594603	4.32331439	3.6351229	4.5983785	2.88818303	3.05434896	2.89505892
Plag210os	1.24167295	6.90705151	0.00127161	0.0441793	7.73742526	7.02820023	7.96848692	7.02267583	6.1550977	6.19517214	6.24233042
170010Bo8R	1.2383992	4.91360324	0.00097075	0.04021101	4.9718179	6.06053072	5.46225184	5.28278254	4.14285297	4.27899378	4.1959929
Cd209c	1.23718234	5.54993067	0.00029393	0.02700533	6.06921843	6.09500293	6.51685551	5.63952983	4.91490645	4.83141716	4.78258439
4930519F09F	1.22927844	6.5676182	0.00020417	0.02537506	7.33209604	7.04142676	7.35180001	6.65065534	5.86688579	5.79680847	5.93645673
multi	1.22344982	4.89639376	6.16E-05	0.02078215	5.57627363	5.51443777	5.39624881	5.19595739	4.08739042	4.46010595	4.04434236
multi	1.21918769	5.00591223	0.00072156	0.03663821	5.86081747	5.44013657	5.8178894	4.99484153	4.1140382	4.43891882	4.37474363
Gm13276	1.21137047	4.78760696	5.88E-05	0.02078215	5.57558236	5.26026151	5.18044346	5.21077562	4.07371309	4.30340471	3.90943001
Gm12880	1.20974643	3.45887575	0.00189336	0.04968372	4.68435527	3.85932559	3.74837272	3.61610034	2.56482601	2.98964973	2.74740048
D730045A05l	1.20587274	3.53252974	0.00021016	0.02537506	4.43044072	4.08899732	4.03895295	3.63893158	2.82069787	2.82257333	2.88710761
Pr12c5	1.20170459	3.72334401	0.00131183	0.0445013	4.64106957	3.76659737	4.55080633	4.02596764	2.82412182	2.9216637	3.3641815
Gm13271	1.1909035	5.58132484	8.20E-05	0.02078215	6.12986238	6.24672751	5.94423843	6.0460199	4.76453014	5.21481457	4.72308095
Krtap5-3	1.18480948	6.6747031	0.0017833	0.04866695	7.5465468	6.81467835	7.65964174	6.70904746	5.9152401	6.06856864	6.00919859
Gm8016	1.17368926	5.3145275	0.00024109	0.02624762	5.94720192	5.79855836	6.09730919	5.42707927	4.48959147	4.84055568	4.60139662
Gm19757	1.17348202	4.3352865	0.00096692	0.04021101	5.21559889	4.78124774	5.09232681	4.26365664	3.77136951	3.5959946	3.62721193
Vmm214	1.1655416	3.64195161	0.00152041	0.0458877	4.63299309	3.97010192	4.37535818	3.58742458	2.91872058	3.1016563	2.90042959
Gm5800	1.16138212	3.86881244	1.51E-05	0.02005732	4.39229399	4.26308922	4.51543553	4.29537186	3.22992663	3.09688128	3.28868863
Gm12887	1.15923482	4.17875722	0.00091006	0.03970412							

Ssxb2	1.10654352	4.01272804	0.00109407	0.04219881	4.73862616	4.57155205	4.74566493	3.89200532	3.32718269	3.47739061	3.33667907
Cyp4a31	1.10172952	4.37331882	0.00018623	0.02537506	4.92751308	4.64002993	5.19007576	4.62433568	3.72065515	3.82840212	3.68221999
Gm10319	1.083660031	4.08882831	0.00142961	0.04503765	4.47034717	4.27096221	5.16593338	4.30567102	3.52955418	3.50072532	3.37860491
Olfri511	1.08076435	4.50518874	0.00136555	0.04469082	5.39019199	4.87853965	5.13771873	4.46711547	3.88019237	4.05919439	3.72344057
Gm13286	1.05306233	6.02268952	4.36E-05	0.02029375	6.6652698	6.43137757	6.41175849	6.38760196	5.5156682	5.46284377	5.28430689
Vmn21r105	1.05236606	3.14250584	0.00068425	0.03599134	3.62469943	3.72590286	3.9187478	3.11552937	2.50751913	2.61961466	2.50478762
multi	1.05192327	5.26034836	7.26E-05	0.02078215	5.86268661	5.8295725	5.68741621	5.46501517	4.65679186	4.74830095	4.57265524
multi	1.05082678	5.02461889	8.64E-05	0.02078215	5.47514652	5.69910712	5.49336628	5.23227296	4.44356383	4.50445799	4.3244175
Fbxw21	1.04968018	3.27730155	0.00081575	0.03846883	4.17568339	3.43776134	3.84877187	3.44644132	2.63798884	2.63901875	2.75544532
Olfri1406	1.04912738	4.06502592	0.00144335	0.04522737	5.05900912	4.08478655	4.40609184	4.50872026	3.43898895	3.5060799	3.45150482
Olfri978	1.04765642	4.49333193	8.30E-05	0.02078215	5.02023163	4.98640557	4.87899443	4.88367852	3.86085108	4.14001369	3.68314859
Gm7969	1.04583775	5.06313456	0.0002754	0.02681541	5.74355766	5.46505696	5.69947466	5.13731368	4.4688652	4.49109405	4.43657972
Vmn2r55	1.0433905	3.61949868	0.00015601	0.0249392	4.34519647	4.0125376	3.99897715	3.90995291	3.12798806	3.12340598	2.81843257
Olfri321	1.03676298	3.47780616	0.00031406	0.02805884	3.97202345	4.14912862	4.0165232	3.55085731	3.02581692	2.88931282	2.74098076
Pcdhb20	1.02969793	4.30475348	0.00033397	0.02842636	4.68161302	4.55469952	5.15229634	4.59560148	3.72737582	3.79647829	3.62520989
Plat1r0	1.02542256	4.41028145	0.00020696	0.02537506	5.04123074	5.34095189	5.56181678	5.05499364	4.22686107	4.19683958	4.24928084
Olfri386	1.02313919	2.98909651	2.41E-05	0.02005732	3.34890835	3.35990579	3.5816451	3.42983964	2.46462503	2.30755560	2.44377029
Orm3	1.0208184	3.95154308	0.00014224	0.02361273	4.1553849	4.39665177	4.64648538	4.35762465	3.23452616	3.46790202	3.40222665
Vpreb2	1.01938533	5.98334	0.00089026	0.03961669	6.8940265	6.24338294	6.42755331	6.11591495	5.28481032	5.4202763	5.49741566
Gm13287	1.01566504	6.00593778	6.54E-05	0.02078215	6.60825199	6.46211708	6.2915412	6.40298093	5.36857165	5.58038055	5.3272109
1700108Jo1Ri	1.01265498	4.77723258	0.00152129	0.0458877	4.67483095	5.49881689	5.2970543	5.37422055	4.27168858	4.3199267	4.0041179
Kif2b	1.01107518	4.08662986	0.00081927	0.03846883	4.53464828	4.93154554	4.46671436	4.16518298	3.39636048	3.69312901	3.43712836
multi	1.00327822	5.49435062	0.00012966	0.02109192	6.163826	5.89886668	5.89861136	5.73600395	4.92382978	5.05934947	4.77996709
multi	1.00199378	2.909596	0.0002622	0.0268002	3.50808985	3.15094505	3.58833955	3.10871315	2.26479251	2.44310902	2.30318284
multi	1.00199378	2.909596	0.0002622	0.0268002	3.50808985	3.15094505	3.58833955	3.10871315	2.26479251	2.44310902	2.30318284
Gm5108	1.00093091	6.01750602	0.00187955	0.04866695	6.55682421	6.45323991	6.86844745	5.90739408	5.42903185	5.45470367	5.46190099
Zfp772	1.00038047	5.41311801	0.00094467	0.03994288	6.10381507	5.77309468	6.11174764	5.3787526	4.87133692	4.83327723	4.68100194
Aurkc	0.99881949	5.32666179	0.00084288	0.03860895	5.92611499	5.64388637	6.10096099	5.34794679	4.71119844	4.85684194	4.69968301
multi	0.99167053	4.17546291	0.00073562	0.03671338	4.9473732	4.41872523	4.77762003	4.25813982	3.69018534	3.60787422	3.52832256
multi	0.99063768	5.32583856	0.00033183	0.02842636	6.1041566	5.80038692	5.53766393	5.59338282	4.71268514	4.80581302	4.476058149
Prl	0.99038093	3.42832529	0.00041346	0.02932682	3.76874367	3.70471548	4.24375026	3.69388761	2.81450713	3.00441866	2.76825419
4933408N05	0.98427077	5.63953611	0.00127663	0.0441793	6.23514068	5.66964814	6.46016004	5.88051691	4.96227084	5.15927777	5.1097384
Cd19	0.98215479	5.27681663	0.00097009	0.04021101	6.35547826	6.19060115	6.32496332	5.71991771	5.0017151	5.40287834	5.09216253
Gm13203	0.9777048	3.55314361	0.00045783	0.03115268	4.07323618	3.72880666	3.92627216	4.15987537	2.81853481	2.87334789	3.29148276
Zfp936	0.95700625	5.1171996	0.00056325	0.03320372	5.83838373	5.42114082	5.41824855	5.43368272	4.47911434	4.84872698	4.38474257
Olfri1055	0.9568786	7.54919094	0.00066263	0.03549404	8.29403853	7.93586361	7.99689636	7.61032858	6.92529989	7.1521564	6.92975323
Olfri392	0.95457998	2.9307285	0.0005131	0.03245815	3.12868274	3.22418099	3.70894841	3.29752466	2.31922898	2.54715971	2.28937398
Olfri466	0.95231473	3.78280377	0.00043079	0.03009983	4.39067032	4.35691386	3.96370819	4.05400508	3.09929913	3.46239573	3.15263587
Olfri272	0.94980549	3.10030392	0.00071777	0.03663821	3.7321904	3.73161309	3.45963499	3.10601518	2.54075708	2.63362409	2.49829262
Serpina1a	0.93826167	3.86209288	0.00169542	0.04817524	4.35660134	4.5036322	4.4636473	3.73293894	3.26025436	3.33420673	3.38336898
multi	0.92711737	5.48154925	0.00038026	0.02891443	6.15321891	5.90993031	5.85274769	5.60054414	4.94010088	5.07591283	5.09216253
BCo49702	0.92317055	3.68291813	0.00038719	0.02891443	4.4174627	4.02324645	3.5353955	4.02031833	3.08461275	3.15686445	3.2246991
4922502H24	0.9215857	4.97165494	0.00049348	0.03192308	5.40678721	4.99780674	5.55040353	5.51483747	4.45120297	4.52316791	4.36073273
Olfri1477	0.91015072	3.24235372	0.00144888	0.04252446	3.69885301	3.76424338	3.89089879	3.17567809	2.70766497	2.68369079	2.77544701
Vmn2r62	0.9097334	3.71550168	0.00040066	0.029123	4.29110286	3.75155305	4.21181813	4.16707566	3.19501165	3.21366165	3.17828879
A530040E14i	0.89177779	5.15711145	0.00066463	0.03549404	6.9013907	6.29602958	6.47820764	6.4815798	5.71669627	5.68646101	5.53941513
Tmem207	0.88982027	3.40035034	0.00102537	0.04132169	3.70324192	3.44742707	3.87030123	4.10583731	2.76023614	3.02910776	2.88630094
Gm9785	0.88743762	4.04519996	0.00021738	0.02537506	4.60606538	4.30355423	4.24241151	4.55099033	3.51933533	3.62323057	3.47170784
Olfri441	0.88476211	4.3102439	0.00018476	0.02537506	4.44934531	4.75729481	4.84404444	4.7070261	3.73426333	3.8646564	3.81507693
1700116N16Ri	0.88344327	3.76951648	0.00135303	0.04466897	4.22018636	4.12914087	4.48771155	3.75550134	3.28299192	3.36360339	3.14577645
Olfri415	0.87837475	4.38103153	0.00083305	0.03846883	4.66632253	5.05279489	4.44899828	4.4015337	4.01035527	3.85262405	3.77415269
Gm11397	0.87802123	3.46520099	0.00107944	0.04217461	4.15210123	3.88105114	3.87985233	3.45297849	3.04520901	2.95735617	2.88785853
Spr12h	0.87787514	4.06337711	0.00133519	0.04466897	4.49805451	4.77002857	4.47019407	4.0201601	3.54260261	3.60377534	3.53882449
Cyp1t5	0.87734094	3.24728366	0.0014051	0.0448196	4.04886286	3.48755718	3.55006091	3.40666674	2.71482659	2.61028605	2.91272531
Ctros	0.87618783	5.8101888	0.0015366	0.04252446	6.38097663	5.9014219	6.47425457	5.9858684	5.43196983	5.19617471	5.30017581
Fbxw28	0.87540508	3.40065268	0.00185552	0.04929869	3.88351736	3.57046836	4.18875817	3.46056127	2.80154089	2.92009038	2.97962884
Fbxw27	0.86983837	3.42829726	0.00143804	0.04518156	4.16583587	3.68613048	3.91143303	3.44094115	2.87972485	2.99371914	2.9202963
Vmn2r102	0.86550181	2.93990396	0.0001328	0.02220399	3.24868986	3.46640042	3.31486489	3.21337806	2.31624048	2.53170213	2.48808753
Ang6	0.86333355	4.11302291	0.0015684	0.0249392	4.30815679	4.45881361	4.58478458	4.58033704	3.50617918	3.71212727	3.64076192
Cyp4a30b	0.86197502	3.96057618	0.00187265	0.04943283	4.29256091	4.6127183	4.51044721	3.90424978	3.39990034	3.61320039	3.39095585
Gm10839	0.85642612	4.8168087	0.00037067	0.02891443	5.1190612	5.21581176	5.44051093	4.95797503	4.31773971	4.26031828	4.40420904
7420701103R	0.85394753	4.09815531	0.00080164	0.03837193	4.55382662	4.15923184	4.61152657	4.53194626	3.55642224	3.82938921	3.44474442
Gm16063	0.84520055	6.67228299	7.14E-05	0.02078215	7.1170559	7.01171834	6.9551074	7.05351585	6.24627855	6.19434227	6.12731291
multi	0.84410231	5.34471172	0.00160204	0.04710925	6.03422333	5.50164749	5.88131152	5.40869709	4.81211971	4.96475606	4.81022687
Pramel4	0.84295154	3.92591367	0.00104919	0.04183709	4.64208772	4.0810264	4.3625431	4.06305726	3.48931354	3.42911963	3.41424806
Gm8765	0.840519	4.45855747	0.00136652	0.04469802	5.23305223	4.69557463	4.76735675	4.57913599	3.93647419	3.93089677	4.06741174
multi	0.83954225	3.38202663	0.00054456	0.0325996	3.91701242	3.88947669	3.70206666	3.45876604	2.9657808	2.78442077	2.95666303
multi	0.8365755	5.09195404	0.00173961	0.0482918	5.74975279	5.2146733	5.67599889	5.16152061	4.57176415	4.69126713	4.57870142
Pramel5	0.8364										

Table with 13 columns of numerical data and 10 rows of text labels (e.g., Gm5535, Gm20110, 1700024B18R, etc.).

4930431F12R	0.63939225	3.66373448	0.00098358	0.04025325	4.01398601	4.07096496	3.74919672	3.91689121	3.29598079	3.35179495	3.24732669
Olftr323	0.63818081	4.03255745	0.00163994	0.04771179	4.41352995	4.28696648	4.3161471	4.20761052	3.43935957	3.81681538	3.74747315
1700029B22F	0.63744005	5.27523954	0.00052057	0.03245815	5.51403908	5.56387517	5.59465396	5.52114432	5.0206923	4.89697345	4.81529849
9030619Po8F	0.63604316	4.27481854	0.00186323	0.04933547	4.71015201	4.34951725	4.49405378	4.63591084	3.81780322	4.06329752	3.85299519
A730049H05	0.63529285	3.41709162	0.00156958	0.04662341	3.54849164	3.65701398	3.82095425	3.73098006	3.12906099	3.17193232	2.86120809
AA543401	0.63465521	5.36145594	0.0011709	0.04279449	5.59106215	5.53379301	5.59405051	5.81365844	4.99548608	4.88127821	5.11869316
Slc25a47	0.63312708	5.49226463	0.00170119	0.04817524	6.0030473	5.5727188	5.73309783	5.7455553	5.14764135	5.06672113	5.17707072
Gm16861	0.63101632	5.68817615	0.00192148	0.04980749	6.12867747	5.95764496	5.98857087	5.75955355	5.27729763	5.48864607	5.21684248
H2-M10.6	0.62993593	4.04524907	0.00078097	0.03776876	4.28708882	4.45051076	4.28387825	4.22912828	3.71716287	3.75221175	3.59767814
A530021J07R	0.62250136	4.40492179	0.00147443	0.045708	4.80906826	4.73078846	4.70518464	4.44179097	3.98643539	4.08092818	4.0802566
Olftr325	0.61992052	3.3118946	0.00054423	0.0325996	3.59168106	3.50968221	3.60311136	3.60582468	2.90320732	2.9216683	3.0480873
D830032E09	0.61946353	3.70143085	0.00128563	0.04418889	4.10949223	3.96695175	4.03179905	3.75941783	3.38804454	3.33063326	3.32677767
5430404P10F	0.6176583	4.66939441	0.00134169	0.04466897	4.92630421	5.0805771	4.92706199	4.79751861	4.21542418	4.45253733	4.28633743
Gm14268	0.6136946	5.09519081	0.00152901	0.04606111	5.23723903	5.3299329	5.45589675	5.40974244	4.87120987	4.56530112	4.79701355
Prss33	0.61362196	5.8002217	0.00093652	0.03983438	6.16399567	6.04154286	6.05605556	5.99076607	5.38274891	5.58975202	5.37624081
Gm16907	0.60817617	5.15759978	0.0011822	0.04219881	5.54469078	5.41067766	5.56116571	5.25423558	4.75537174	4.82330669	4.45513319
Mb	0.60800232	5.71685455	0.00192128	0.04980749	6.04674923	5.96428577	6.11309697	5.78557593	5.4941574	5.37180734	5.24230922
Slco1a1	0.6073327	2.91942419	0.00149453	0.0458877	3.19826754	3.08367508	3.38208909	3.0548068	2.59122311	2.61605761	2.50985007
Dnmt3aos	0.60729719	4.325456	0.0010638	0.04206153	4.6160063	4.68374203	4.40941994	4.63373664	4.03144704	3.97657797	3.92726211
Prss35	0.60681405	5.5114255	0.00091257	0.03970412	5.73417371	5.57158659	5.84376766	5.73712206	5.30045726	5.05152529	5.14371673
Tdbi5	0.6052528	4.85950797	0.00122265	0.04369246	5.1797466	5.18627955	5.14553302	4.96404893	4.44267418	4.63998011	4.45829339
Platr26	0.60347354	5.09642894	0.00177026	0.04866695	5.4203717	5.33864038	5.4783113	5.18291845	4.70063773	4.65780554	4.89703548
Slc16a4	0.58838505	3.29484481	0.00132809	0.04466897	3.49394992	3.41607983	3.59957719	3.67843239	2.95051276	2.88829732	3.03706426
Gm4224	0.58616629	4.11542523	0.00118942	0.04296425	4.21657462	4.47952164	4.36829748	4.4021637	3.72482412	3.83656351	3.78003157
Gm13580	0.58499661	4.91229735	0.00179232	0.04866695	6.26189777	5.02451209	5.26330316	5.1023277	4.68400445	4.5536327	4.45536327
Gm7133	0.58472316	2.62050279	0.00138143	0.04478539	3.0214755	2.82439668	2.90637522	2.73214632	2.23727273	2.34479919	2.27705387
Slc24a5	0.57875285	3.65715293	0.00138691	0.0448196	4.0006529	3.82975427	3.99975439	3.79118551	3.24196521	3.35885558	3.37849124
Hs3st2	0.56621326	4.59812926	0.00080439	0.03842244	4.81106654	4.81638028	4.87893847	4.85678308	4.30760871	4.30622928	4.20989851
Gm5570	0.55954424	2.70968414	0.00174251	0.0482918	2.94796366	3.08155287	2.97739879	2.79103992	2.41943292	2.42293547	2.32746534
Sftp	0.55886669	5.48286607	0.00177489	0.04866695	5.72599685	5.78337189	5.78459703	5.59524712	5.20353869	5.25237659	5.03493433
Pr18a9	0.5552519	3.41952673	0.00141972	0.0448196	3.63248593	3.78915486	3.60149799	3.60682853	3.03203193	3.10165571	3.17303214
Gm9916	0.55254184	5.48390697	0.00129625	0.04422927	5.81548429	5.6575038	5.71473647	5.69511792	5.13249689	5.26038383	5.11162562
4930523O13F	0.54664855	3.10196293	0.00117193	0.04279449	3.17971615	3.20858376	3.28286663	3.30979699	2.64244553	2.59459523	2.69837521
Oog2	0.53985285	2.94575781	0.00141671	0.0448196	3.24711741	3.09448874	3.16000876	3.20687836	2.55694368	2.65349079	2.70137193
Aldoat1	0.53132541	4.63490563	0.00179427	0.04866695	4.85538148	4.89647392	4.93451366	4.76409702	4.31983893	4.24874923	4.42529018
Gm12789	0.51999563	4.35896166	0.00179538	0.04866695	4.63713196	4.66188514	4.50640357	4.52184702	4.01134005	4.1175687	4.05655514
Naa25	-0.5263585	5.64916677	0.00151459	0.0458877	5.39395148	5.46730217	5.4992973	5.33378733	5.91075602	5.97712827	5.96194485
Fbx17	-0.5287284	4.88024352	0.00171505	0.04817524	4.66939058	4.52521995	4.72429929	4.69575369	5.13915825	5.17959162	5.22836474
Suc1e2	-0.5357177	5.48958845	0.00156127	0.04646069	5.25875242	5.2183599	5.22985562	5.33301273	5.70349429	5.78763631	5.89600791
Midn	-0.5372135	6.06728756	0.00165337	0.0478374	5.33371581	5.8636711	5.74284331	5.90798267	6.45386005	6.39263477	6.27630522
Pmm1	-0.5399427	5.23209435	0.00173032	0.0482918	4.99541537	4.93284707	5.09413279	4.98036607	5.65939786	5.65757864	5.49676203
Kmt5b	-0.5614057	6.00356376	0.00107852	0.04217461	5.64369692	5.82092729	5.77949624	5.82567931	6.35786118	6.31617290	6.29906781
Gm20100	-0.5660737	3.53335381	0.00152129	0.0458877	3.20589067	3.22038089	3.45349583	3.28330857	3.81448309	3.92001909	3.9359709
Slc27a1	-0.5663136	5.31332575	0.00124648	0.04394037	5.09681511	5.05269232	4.99503494	5.13793732	5.64724834	5.73564664	5.52790561
Edm2	-0.5687734	6.70587962	0.001403	0.0448196	6.54332308	6.36371726	6.38383762	6.55760032	7.11186137	6.97799952	7.00281816
Idh2	-0.5736403	5.95400855	0.00182715	0.04904603	5.70093474	5.73689716	5.67989298	5.7149259	6.08114616	6.39334115	6.37092173
Arhgap35	-0.5765741	5.91204499	0.00168281	0.04816089	5.76940034	5.79090476	5.58665582	5.51280624	6.24025608	6.20525259	6.2790391
Smarca4	-0.5783546	6.85340726	0.00121844	0.04363108	6.63061823	6.63850666	6.45797178	6.69506727	7.20370912	7.23380043	7.11477732
Tmed3	-0.5832081	5.75057774	0.00184823	0.04927293	5.49275694	5.4456922	5.38330492	5.68077164	5.96668426	6.13053095	6.15430326
Nelfa	-0.5890796	6.09123428	0.00179287	0.04866695	5.7122455	5.8915457	5.76863967	5.98265556	6.41270049	6.55272314	6.31812986
Goras2p	-0.597634	5.515651	0.00070705	0.03645311	5.28638457	5.26663446	5.28414142	5.34492802	5.81873685	5.99504747	5.86568418
Utp20	-0.5987015	4.67125324	0.00053956	0.03259372	4.42628185	4.34388529	4.45028572	4.4382146	5.00884298	5.00356174	5.02770047
Eef2	-0.605254	9.80787136	0.00173221	0.0482918	9.49595428	9.37084576	9.56241365	9.76469345	10.1393775	10.1669779	10.152137
Pgf5	-0.6053009	5.2476834	0.00158362	0.04687553	5.0582617	4.85830893	5.00460526	5.03189904	5.42494728	5.74283676	5.61292479
Ap1b1	-0.6142147	6.73979174	0.00090846	0.03970412	6.49120367	6.40245555	6.39306711	6.6192141	7.14416436	7.12146447	7.00664691
Mtmr4	-0.6181257	5.58264818	0.00187969	0.0494463	5.51861991	5.18593222	5.3310988	5.17328681	5.93627027	5.85265246	6.01866578
Dopey1	-0.6221774	4.86201681	0.00192133	0.04980749	4.45110524	4.52535408	4.70896379	4.69605437	5.34307398	5.27865589	5.03091033
Ankrd50	-0.6227283	5.81892469	0.00161138	0.04716874	5.56110001	5.50601729	5.67614841	5.46489885	6.31764355	5.97405053	6.23260972
Rnaes1	-0.6235127	6.0747173	0.00076951	0.0373689	5.83738244	5.74982469	5.71026856	5.93251456	6.42042009	6.36500506	6.5076057
Zmynd8	-0.6295837	6.39944718	0.00152068	0.0458877	5.98582049	6.24545749	6.0080855	6.27913888	6.71684888	6.86963138	6.69114763
Plekha1	-0.6340719	4.91101643	0.00128346	0.0441793	4.43666594	4.6478315	4.64362019	4.82896769	5.28510099	5.30543399	5.22949474
Fubp3	-0.6366391	6.05084812	0.0013251	0.04466897	5.6873249	5.67011743	5.78153844	5.97303032	6.28343584	6.46145911	6.49903075
Fbxo18	-0.6370408	5.81642872	0.00100543	0.04098247	5.52097452	5.50379397	5.53545367	5.61342277	6.05244215	6.11535054	6.37356315
Pak2	-0.6409369	6.53685136	0.00126178	0.0441793	6.14836529	6.34570191	6.2180052	6.33658414	7.07887189	6.74425456	6.88617653
Ncbp2	-0.6422529	5.21679492	0.00102247	0.04132169	4.80238712	5.0815415	4.81748999	5.06475607	5.58784935	5.58295466	5.58058576
multi	-0.6507436	5.99134732	0.00134612	0.04466897	5.61074677	5.71221236	5.84510183	5.68176778	6.21639492	6.56840374	6.30480384
Pip5k1c	-0.6543859	6.43137347	0.00171309	0.04817524	6.12539659	6.06472714	6.04140233	6.37216346	6.98387867	6.74871458	6.68333115
Sfn	-0.6625226	6.26812626	0.00179768	0.04866695	5.84297357	6.12037503	5.8622378	6.1116563	6.79474855	6.45509756	6.69028569
Sympk	-0.6655548	6.64893375	0.00146122	0.04554292	6.31840747	6.18547069	6.34088804	6.60734336	6.95997075	7.14511494	6.98156097
Map3k4											

Mavs	-0.7051584	5.83620045	0.00063891	0.0350935	5.55711354	5.55164458	5.49067978	5.53652091	6.06978187	6.19760673	6.45005571
Rere	-0.7086469	5.87521331	0.00092048	0.03970412	5.66125881	5.40751166	5.69942709	5.51783249	6.28332575	6.44175008	6.11538732
Didoi	-0.7090989	6.07783704	0.00184235	0.04922814	5.67411167	5.85367158	5.58813445	5.97983231	6.55049059	6.63978068	6.25883796
Kdm6b	-0.711143	6.39040091	0.00155679	0.04646069	6.24442373	5.94446499	5.94096295	6.21264977	6.95302556	6.85598052	6.58082187
Zfp780b	-0.7135998	5.05604356	0.00026734	0.02681541	4.66277975	4.69263417	4.83550518	4.80994128	5.39648157	5.47645388	5.51850909
Dynll2	-0.7154011	6.11586835	0.00157691	0.04678178	5.59353963	5.90370749	5.64814603	6.09231083	6.50805258	6.53599875	6.52995566
multi	-0.7203465	5.07123356	0.00128216	0.0441793	4.77604814	5.04700121	4.63976634	4.58723879	5.3955412	5.46667228	5.58636697
Wdr70	-0.7245296	5.54763341	0.0006705	0.03549404	5.20469396	5.15841868	5.13817444	5.4471958	6.03889362	5.8146679	6.0313895
Scap	-0.7347629	6.75741016	0.00082312	0.0384683	6.33554246	6.39971199	6.36174375	6.67304899	7.33322736	7.16026009	7.0383365
Setbp1	-0.734787	5.28325092	0.00171886	0.04817524	4.71572069	5.28875469	4.92567154	4.94322194	5.64070781	5.81472699	5.65395279
Gipe1	-0.7377514	6.15051787	0.00169999	0.04817524	5.56369599	5.8925739	5.9942272	5.88681225	6.49051359	6.4196757	6.80608096
Usp36	-0.7413145	5.68734083	0.00052731	0.03256134	5.27955426	5.2663985	5.52767765	5.40490811	6.02046704	6.27746497	6.03491532
Csnk1g2	-0.7459052	6.97257849	0.00166566	0.04807405	6.65552063	6.64691114	6.39869187	6.91049566	7.5166645	7.19350385	7.48626179
Nde1	-0.7461372	5.94662576	0.00100769	0.04098247	5.56956235	5.60916008	5.43776011	5.89092727	6.46009356	6.43590842	6.2229676
Brwd1	-0.7509712	5.06567592	0.00078807	0.03795531	4.77231127	4.88046001	4.45228696	4.87026628	5.50482829	5.53534274	5.44423589
Usp19	-0.7523214	6.946056	0.00149577	0.0458877	6.53934768	6.58422807	6.54876018	6.8223485	7.4993327	7.5505222	7.0778527
Zc3h12d	-0.7547146	6.33185295	0.00073534	0.03671338	6.00289219	6.20980805	6.08209304	5.73882202	6.80432194	6.73050332	6.75453308
Cux1	-0.7556442	5.831632	0.00046748	0.03133421	5.34647761	5.63263748	5.42405223	5.62797055	6.30010729	6.34955889	6.14061996
Usp1	-0.759858	5.47601953	0.00031983	0.02814171	5.21369414	5.07076695	5.0126508	5.2863525	6.0041621	5.85438494	5.87212619
Urb1	-0.7607734	5.33873182	0.00097381	0.04021101	4.93805728	5.13842906	4.97565407	5.01860398	5.69809633	6.05255783	5.56972419
Cdk2	-0.7612049	5.46713045	0.00038945	0.02891443	5.25225976	5.07063132	4.96461104	5.29609703	5.89190422	5.96338426	5.86602552
Mir7075	-0.7628788	8.06673378	0.0006413	0.0350935	7.54429676	7.74042934	7.68052468	7.99389217	8.50872293	8.56843989	8.43083069
multi	-0.7653835	5.93311522	0.00082574	0.0384683	5.28384874	5.74072521	5.69724155	5.69855932	6.35987725	6.36133789	6.39021662
Cpsf1	-0.7705227	6.46184849	0.00134782	0.04466897	5.90219973	6.0181928	6.33006021	6.27604518	6.69551897	7.04468482	6.96623768
Tec3	-0.7712286	5.24487881	0.00188009	0.0494463	4.96783452	5.2581095	4.62893336	4.80253163	5.78075604	5.58966332	6.75453328
Nup54	-0.7723069	5.39359713	0.00040072	0.029123	5.14065102	4.95629868	4.93752491	5.21595924	5.86358597	5.70175688	5.93940324
Ubf1d	-0.7725574	5.98993527	0.00075944	0.03734488	5.43385275	5.79377652	5.652634617	5.84535092	6.30648452	6.51416121	6.47357513
Galt6	-0.773864	6.54050527	0.00084696	0.038645	6.32610202	6.21838872	6.04297329	6.24189464	6.82111243	7.25117399	6.88189178
Afgf1	-0.7780243	7.79388661	0.0017118	0.04817524	7.41786702	7.3695573	7.35933377	7.69503238	8.03483191	8.55294438	8.12763949
Tyh3	-0.7783752	7.57096487	0.00106299	0.04260153	7.02382741	7.17385426	7.15422025	7.23759999	7.98981189	8.5858776	8.18185251
Rhou	-0.7828202	5.0742769	0.00141715	0.0448196	4.91436551	4.6953317	4.5755407	4.76224656	5.59482775	5.21844384	5.75918225
Atf1	-0.7889093	5.86269831	0.00122528	0.04371987	5.36489428	5.35198572	5.6027041	5.77879324	6.28238738	6.51717335	6.14095009
Atxn2	-0.7929559	5.58872627	0.00074798	0.0370148	5.21609643	4.98684434	5.43773109	5.35488031	5.91155412	6.04105438	6.17292321
Atxn10	-0.7999902	6.76104354	0.00104152	0.0418164	6.2576608	6.3481836	6.28631275	6.77700524	7.16269089	7.17946809	7.30967533
Pno1	-0.8100312	4.40124763	0.00162122	0.04646069	3.96153391	4.04757412	3.90582463	4.30143288	4.56400497	5.11463651	5.11469871
Cdc20	-0.8127576	5.53547432	0.00168844	0.04817524	5.31529515	5.43744406	4.82609011	5.1697692	5.99024579	5.84623027	6.16324566
Gan	-0.8142492	4.80618929	0.00085336	0.03875963	4.34981535	4.71479332	4.38267409	4.38143854	5.48325831	5.27443317	5.05673071
Elk4	-0.8160727	6.26459478	0.00053484	0.03256134	5.78166572	5.93244503	5.25059686	6.0238932	6.82740835	6.87831143	6.46704286
Ankrd17	-0.8177863	6.16345768	0.00173493	0.0482918	5.68726954	5.49664358	5.87048415	6.19751413	6.63724189	6.59753705	6.6575134
Gabpb2	-0.8215463	6.04807638	0.00095218	0.04001368	5.6516319	5.90737044	5.4912564	5.73368309	6.44375002	6.77798609	6.33104654
Hells	-0.8231105	5.19341113	0.00187232	0.04943283	4.86703834	5.09079177	4.65847172	4.74629618	5.33366809	5.73818954	5.9194223
Dbt	-0.824193	5.63791323	0.00091834	0.03970412	5.23309025	5.14704605	5.26572589	5.49206945	5.81723945	6.29766419	6.21173831
Herc4	-0.8250769	5.66950836	0.00147628	0.045708	5.19685179	5.15967471	5.16529789	5.74179142	6.06896184	6.22043727	6.13354359
Mad2l1	-0.8261775	6.62017455	0.0007672	0.0373689	6.31275427	6.42794732	5.93866812	6.38502426	6.95402561	7.14959559	7.17320666
Tmf1	-0.8274905	4.80815186	0.00174541	0.0482918	4.6546907	4.31096144	4.17149405	4.67690613	5.29776593	5.48355717	5.06168758
Nbas	-0.8294139	5.54361226	0.00121152	0.04356066	5.06859632	5.25568401	5.19325648	5.23505989	6.11921583	6.28009208	5.65338118
Dync1h1	-0.8394313	7.36826341	0.00164573	0.04773446	6.79524755	6.94538699	6.91109266	7.38231034	7.92330874	7.61500249	8.00550313
Nfyn	-0.8399897	6.01472932	0.00163222	0.0475778	5.57032035	5.48039974	5.4693925	6.09884037	6.40460631	6.51201513	6.56755205
Pdpr	-0.8405743	5.27122161	0.00067948	0.03582123	4.68300962	5.21048498	4.76877361	4.98163378	5.69319842	5.72866779	5.8327831
Fbxo33	-0.8425966	5.41778404	0.00186239	0.04933547	5.08164597	4.79936618	4.87054574	5.47512689	5.7623149	5.95546285	5.98002178
Tnp202	-0.8436517	6.7346519	0.00066925	0.03549404	6.30547543	6.61476132	6.05996312	6.148114774	7.15574831	7.18334129	6.21192942
Zmpstc24	-0.8480566	5.68957988	0.00018606	0.02537506	5.5061347	5.16427141	5.27998346	5.35411871	6.13643622	6.27193569	6.11417894
Usp10	-0.8513254	6.27460855	0.00057983	0.03341261	5.93465533	5.5833797	6.08569013	6.03529402	6.74780575	6.67959231	6.85584262
Rab43	-0.85194	6.3573218	0.00042309	0.02991918	6.21619686	6.0357826	5.86985262	5.86985192	6.73573675	7.03070216	6.56795959
Pou5f2	-0.8529069	6.02900756	0.00056818	0.03549404	5.43012431	5.88515733	5.85950017	5.47912239	6.46781935	6.49549764	6.56858317
Rab20	-0.8532817	5.27187784	0.0010085	0.04098247	4.60616314	5.03145014	4.95521266	4.95521266	5.51935955	5.97593674	5.98310594
Gtf2f2	-0.8534518	5.61129617	0.00101905	0.04126816	4.94814909	5.2630199	5.20022996	5.57072547	5.96510667	6.09575845	6.23608369
Aff1	-0.8562168	6.36198653	0.00029296	0.02700353	6.03145701	5.95707042	5.94381141	6.04780709	6.71249355	7.11563253	6.72563371
Larp4	-0.8576016	6.95329443	0.00106002	0.04206153	6.32491355	6.75887442	6.58192366	6.67729188	7.64400859	7.14928395	7.53676496
Ankrd13c	-0.8592703	4.87366184	0.0006498	0.03528962	4.544888348	4.33062089	4.37327373	4.7728345	5.42441638	5.16050153	5.5091024
Mospd2	-0.8601082	4.62929574	0.00036971	0.02891443	3.98541015	4.25804917	4.33255187	4.46670052	5.0926331	5.0643873	5.20533809
R3hdm4	-0.8605224	7.41290889	0.00028169	0.02688879	6.91679436	7.24799629	6.89145147	7.12021215	7.87330005	6.9309353	8.0305144
Ints7	-0.8644529	6.2246855	0.00029075	0.02700353	5.71058771	6.02805165	5.65724581	6.02093766	6.71808446	6.72393669	6.71395454
Tmem259	-0.864806	7.54448524	0.00050208	0.03210161	6.92440081	7.85898432	7.27686188	7.20816942	8.12544202	8.17908219	7.81145605
Thck	-0.8728621	6.30261495	0.00168529	0.04816557	5.73980391	5.75057265	6.22132797	6.00242031	7.06434124	6.49709275	6.84274579
Parp12	-0.8729773	6.10269163	0.00080953	0.03842244	5.52453918	5.73059838	5.55154562	6.10755078	6.64852693	6.5414897	6.61459257
Morc3	-0.8731673	5.99166307	0.00142078	0.0448196	5.25331983	5.4951276	5.42517096	5.42517096	6.42104038	6.39975187	6.65105518
Nedd4l	-0.8737393	5.20863965	9.60E-05	0.02078215	4.92042951	4.7295513	4.92847217	4.75826684	5.7638559	5.75289972	5.60700212
Irf4	-0.8747122	5.79619675	0.00073453	0.03671338	5.17050578	5.53202742	5.24834193	5.72786051	6.35128052	6.58958539	6.3472309
Ezr	-0.8762472	7.18919761	0.00125392	0.04413601	6.97005168	6					

Gdap10	-0.898059	4.76506933	0.00056371	0.03320372	4.19554678	4.60485859	4.35281409	4.36752813	5.24404038	5.05575131	5.53494603
Samd8	-0.9008605	5.18512819	0.00149307	0.0458877	4.72968565	5.00039736	4.50165999	4.96443749	5.36574657	5.82225036	5.9117199
multi	-0.9020146	6.87379384	0.00159669	0.04704794	6.364994	6.66459626	6.09219125	6.82708314	7.28765251	7.36492799	7.5151117
Trim25	-0.9038528	6.65517365	0.00015197	0.02453186	6.08562424	6.26635061	6.2689111	6.45034671	7.05934947	7.28317554	7.17245788
Abcc4	-0.904779	5.61790088	0.00053557	0.03256134	5.37400008	4.9612038	5.43279878	5.1525512	5.9781161	6.32442035	6.10222034
Wapl	-0.9056657	5.86038213	0.00026052	0.02680002	5.27755305	5.49331244	5.38736699	5.72872623	6.27728165	6.38940568	6.26702437
Prkc1	-0.9060337	4.91488448	6.16E-05	0.02078215	4.45244077	4.53504774	4.66133486	4.45751396	5.41126747	5.37663377	5.50995278
Slec2a1	-0.9063734	7.28397579	0.00066383	0.03549404	6.75520741	7.01188288	6.74776619	7.06726375	7.64265042	7.65296038	8.11009952
Kpnb1	-0.9080143	6.94754601	0.00076516	0.0373689	6.31415753	6.44272594	6.51655369	6.96015096	7.40565136	7.45283715	7.54074544
Lomp2	-0.9132662	6.60704216	0.00109612	0.04219881	6.08064231	6.32219145	5.97293401	6.48680172	6.97133901	7.43043203	6.9849546
Tnfrsf1a	-0.9133103	5.75715192	0.00117677	0.04288893	5.10817928	5.31169245	5.29035787	5.75270331	6.26587345	6.08073832	6.49051873
Zech2	-0.9135437	6.10704924	0.0013496	0.04466897	5.36661603	5.95033667	5.68108414	5.86408517	6.91052566	6.56275003	6.41394702
Nans	-0.9145092	5.96533875	0.00178933	0.04866695	5.50109083	5.26796545	5.48492247	6.03964624	6.46262968	6.66373884	6.3373777
Usp9x	-0.91501	6.08088078	0.00178828	0.04866695	5.5314281	5.71979264	5.42105818	6.08265565	6.83049678	6.33423094	6.64650318
Stx6	-0.9158813	6.36720565	0.00070394	0.03637315	5.96821779	5.73349117	5.90306506	6.29396639	6.93320316	7.06161421	6.67688179
Polh	-0.9165112	5.01122907	0.00058536	0.03349989	4.701972919	4.61971811	4.54262789	4.69167909	5.41519322	5.90150083	5.28815518
Prpf8	-0.9178877	7.55764239	0.00055158	0.03284798	6.41678177	6.99958476	7.12350811	7.4861432	8.25214386	8.11069719	7.88360782
Gpatch8	-0.9217112	6.19798906	0.00067102	0.03549404	5.92449509	5.70685379	5.62720413	5.95332688	6.996338	6.4262505	6.75145504
Atp8a1	-0.9234565	5.70805398	0.00074586	0.0370148	5.2741913	5.0387373	5.23146827	5.70752293	6.20245287	6.1663271	6.3384503
Utrn	-0.9253887	6.98928188	0.00020871	0.02537506	6.49570776	6.57294054	6.54208686	6.76001178	7.43182027	7.75590725	7.36649871
Hsp90ab1	-0.9259446	9.90588919	0.00104907	0.04183709	9.3743529	9.22993768	9.52115688	9.9107757	10.2615557	10.4923528	10.5109296
Nr1d2	-0.9271988	5.71434739	0.00027826	0.02681541	5.19083284	5.54753185	5.44271292	5.08682822	6.25972886	6.33423094	6.1504079
Sap30bp	-0.9293198	5.58176255	0.00128302	0.0441793	5.38373881	4.74051563	5.22086666	5.38880947	6.17479769	5.91932433	6.24428526
Nmt2	-0.9298537	5.15250134	0.00066023	0.03549404	4.69546578	4.68762569	4.77858286	4.85429605	5.8141495	5.30091625	5.93647327
Rbm27	-0.9299115	6.57280634	0.00071199	0.032662781	5.88254303	6.01089725	6.49052624	6.3130985	7.1043425	7.21432752	6.99388293
Map3k2	-0.9402146	5.57816436	0.00087673	0.03931365	5.13931741	5.01024575	4.97752236	5.57377543	6.18494803	6.25193333	5.909408
Slc9a6	-0.9474332	5.34592193	0.00110518	0.04219881	4.80790174	4.72257357	4.92487147	5.30416979	6.10061474	5.96467353	5.95664616
Map4k3	-0.9487458	4.73853296	0.00093178	0.03983438	4.44524561	4.22921032	4.27301209	4.38024241	5.71093993	5.0322811	5.09879929
Hnrmpab	-0.9505769	8.35770549	0.00176117	0.04849861	7.8393606	7.74102584	7.78945311	8.43179921	8.63888055	9.02793848	9.03548076
Alf1	-0.9507494	6.36264455	0.00032101	0.02814171	5.83541709	5.73163337	6.29432656	5.95934506	6.94384369	6.90493235	6.86962636
Sdad1	-0.9533827	5.32647916	0.0011052	0.04219881	4.66797878	5.11066779	4.89758353	4.99531618	5.48472432	5.99320456	6.135879
Mthfd1	-0.9588714	6.17842124	0.00135139	0.04466897	5.70150583	6.01581057	5.50730116	5.84528776	6.47476815	7.12030773	6.58396744
Senp6	-0.9622178	6.25166393	0.00144637	0.04526083	5.5946277	5.79031345	5.65351566	6.35384753	6.82467914	6.70812074	6.87170821
Dnajb1	-0.9636766	6.45411465	0.00192436	0.04982668	5.93448666	6.29161016	5.74271661	6.39562818	6.85547577	7.22975063	6.92193451
Sfsa2	-0.9641583	6.34485274	0.00061698	0.03450916	5.76707817	5.78038435	5.77731274	6.20116284	7.04097379	6.58427494	6.62515233
Gapvd1	-0.9644909	6.01505115	0.00020758	0.02537506	5.66321221	5.48146483	5.40289729	5.85921729	6.57182004	6.67784788	6.44889851
AU019823	-0.9743029	5.31890138	0.00036574	0.02891443	5.12832052	4.78466639	4.81517185	4.87721325	5.71365738	6.18014635	5.73313395
Trappc8	-0.9773875	5.06297713	0.0010414	0.02119597	4.57259356	4.73769211	4.44740253	4.81869895	5.7364051	5.5165748	5.63423742
Zfp948	-0.9791276	4.76110315	0.00058344	0.03347229	4.32868574	4.19001801	4.17613816	4.67106619	5.04960469	5.41929213	5.49291804
multi	-0.9865059	5.71761432	0.00170221	0.04817524	4.89965227	5.56517635	5.2704569	5.44401871	6.5213199	5.9216639	6.4009911
Rab12	-0.9865444	5.41685771	0.00016769	0.02506756	4.88755193	4.79394615	5.05572609	5.23898837	6.01713565	5.844264	6.08039179
Hectd1	-0.9906793	6.91433011	0.00174806	0.04830806	6.28544382	6.48357758	6.17111124	7.02328041	7.61514631	7.48220025	7.34725068
Ifih1	-0.9911004	4.80668001	0.00127856	0.0411793	4.28019387	4.80418844	4.06250279	4.37840574	5.15116289	5.34151895	5.62458812
Adss	-0.9920399	6.29258026	0.0017536	0.04837221	5.62317601	5.48750367	6.10883697	6.25016449	6.70931271	6.82594524	7.04312272
Birc3	-0.9939469	6.07430784	0.00074997	0.03703484	5.43635639	5.44427194	5.78168899	5.90379771	6.71509267	6.88265482	6.32908504
Kcmf1	-0.9992836	6.28016571	0.00134913	0.04466897	5.97248029	5.47953123	5.67573964	6.279854	6.71487048	7.03768932	6.80094999
Lpp	-1.0043951	6.29690266	0.00127723	0.0441793	5.91129713	5.58606095	5.65926634	6.30922771	7.02333475	6.61527368	6.97385808
2310035C23f	-1.006928	5.56827231	0.00061983	0.03454385	4.93430494	5.25504831	4.85625859	5.50131516	6.2793598	6.14778823	6.00443114
Trim28	-1.0109373	6.59999994	0.00038717	0.02891443	6.17939201	6.00437455	6.0600876	6.42311023	6.92437854	7.45707268	7.15158397
Runx1	-1.0135686	6.53045394	0.00018335	0.02537506	6.14653443	6.1013763	6.01152844	6.12483043	6.99571861	6.90265902	7.43053032
Rnu3a	-1.0146029	7.76089371	0.00060965	0.03448015	7.22110236	7.64764206	7.05769632	7.37567628	8.62444471	8.17036069	8.26761819
Tsc2	-1.0223842	6.11733925	0.000566	0.03320372	5.73302095	5.32588428	5.68277869	5.97501448	6.50147411	6.92404062	6.67916159
Lbh	-1.0237748	6.85015164	0.00104972	0.04183709	6.16167855	5.98606828	6.29068795	6.75202036	7.53376972	7.52039247	7.25133519
Rif1	-1.0242054	5.13124405	0.00024977	0.02669562	4.46537325	4.51471306	4.75497648	5.0337688	5.69907931	5.76437107	5.68606237
Mapki	-1.027975	5.79791896	0.00139922	0.0448196	5.42253939	4.81273645	5.47210854	5.72204865	6.43671524	6.28014027	6.43914421
multi	-1.0323848	6.63241857	0.0008977	0.03967929	5.97817105	6.31070907	5.99971604	6.4775756	7.30092483	6.8700683	7.49606508
Camk2d	-1.0326222	5.57418992	0.00023601	0.02624762	5.03403202	4.83269677	5.22376301	5.43605832	6.18228982	6.09972727	6.21076223
Bap1	-1.0336738	6.34701893	0.00123677	0.0438243	5.96390387	5.69330178	5.91313012	6.04572768	6.52943015	7.39452914	6.88910978
Fnta	-1.0407292	5.99524796	0.00138007	0.04478539	5.33585844	5.69550697	5.35917272	5.80634647	6.35283605	6.37496941	7.04204566
Ankle2	-1.0422262	6.08047186	0.00086183	0.03881916	5.95749025	5.19378412	5.59674305	5.78719648	6.77059092	6.46643322	6.79106498
Hspa9	-1.0428487	6.3926312	0.00030028	0.027177	5.72589356	6.10306723	5.77374392	6.18007948	6.78853989	7.19589739	6.98119694
Eif4a1	-1.0446568	7.7813852	0.00115726	0.04252446	7.3083189	7.01506835	7.01287405	7.86043935	8.24773903	8.37575131	8.49974366
Bach1	-1.0451003	6.70436972	9.06E-05	0.02078215	6.14855624	6.1331881	6.1813413	6.56279277	7.30020374	7.28356758	7.32093829
Vps11	-1.0497268	5.92357805	0.00011864	0.02169582	5.20069728	5.51640981	5.48682264	5.69085088	6.39439434	6.54876249	6.62710888
Hivep1	-1.0540458	6.01462156	0.00108208	0.04217461	5.46175326	5.35115711	5.41799974	6.02064045	6.93014556	6.38804856	6.53260626
P4ha1	-1.0541785	5.32970145	0.00012684	0.02195948	4.9822727	4.9179692	4.73146008	4.87994072	5.68808221	5.91831831	6.18986694
multi	-1.0563351	6.19128728	0.00026752	0.02681541	5.4831727	5.74451952	6.05121189	6.6333304	6.72096558	7.02922604	6.92823451
Cnot6	-1.0569011	6.64366014	0.00124459	0.04393975	5.853785	5.96223981	6.22492984	6.72185546	7.34945964	7.12795855	7.26539265
Ct8	-1.0626047	6.7087716	0.00154484	0.04635898	6.22363856	6.1440545	5.92313499	6.72265031	6.96707882	7.52453774	7.45630964
Stat1	-1.064172	7.90964799	0.00178548	0.04866695	7.219						

Table with 12 columns: Gene Symbol, Log2FC, NegLog10P, AdjP, Log2FC, NegLog10P, AdjP, Log2FC, NegLog10P, AdjP, Log2FC, NegLog10P, AdjP. Rows include genes like Herpud1, Ublc1p, Gtspb, Gtspb, Casp8ap2, Eomes, Itga6, Stat2, Gbp2, Arcn1, Cep170, Ascc3, Mem5, Bcap29, Ddx42, U2surp, Larpa4, 2610507B11Ri, Nap1l4, Eif3b, Eif3a, Slc36a4, Prkca, Rbbp7, Tctc7, Slc7a5, Zfp106, Dhcr24, AA667203, Tars, Med1, Rasaf2, Vcp, Cep350, Plg1, Mbnl2, Lor, E430025E21f, Pten, Nol8, Cdk4, Tm9sf3, Cxadr, Nfi, Sfb3b, Wdhdl1, Rpph1, Cirh1, Ppat, Mem2, Zfp143, Fosl2, Cyb5b, Atl2, Mir15a, Anoa6, Pigf, Hipk2, Caap1, Klf3, Extd3, St6gal1, Rab1b, B230219D22f, Hspa4, Fam91a1, Khdc3, Rnf2, Ptpn12, Scep1, Slc25a7, Ilra, Tmx1, P4hb, Hsph1, Brix1, Kbtbd7, Rab21, Pik3c2a, Gspt1, Smurf1, Nops8.

Nucb2	-1.4564055	5.99776156	0.00116906	0.04279449	5.14160569	5.12432923	5.28976933	5.9386468	6.66561557	6.40053448	7.42382981
Twf1	-1.4781886	5.13313525	0.00111656	0.04219881	4.16361766	4.52954471	4.61224594	4.69309513	6.11640784	5.26404409	6.55299136
Tnks2	-1.4799047	6.81420719	0.00080963	0.03842244	6.14596481	5.91332031	5.74306831	6.91749583	7.57117964	7.48967253	7.9187489
Fbxo25	-1.4975364	5.69874299	0.00055186	0.03284798	5.25514778	5.08142119	4.88386793	5.00732974	7.1599022	6.56086617	5.94266659
Csfr	-1.5265575	6.4544772	0.00089845	0.03967929	5.48337275	5.67459575	6.09190067	5.95108392	7.37666609	6.67383001	7.92989124
Tom70a	-1.5298237	5.56081526	0.001588	0.04693212	5.15564634	4.12266698	4.77039518	5.57199768	6.1490459	6.57880338	6.57715136
Cd24a	-1.5802272	7.76524577	0.00117818	0.04288893	5.1637339	7.40240759	7.26192078	7.17132037	8.4693479	8.17957463	9.35577574
Rnu1a1	-1.607276	10.0988894	0.00113011	0.04229934	9.0392891	9.58583263	8.92478968	10.0903157	11.472518	10.969177	10.6103033
Gm4951	-1.643948	4.69219495	0.0013572	0.04467153	4.19826074	4.27051956	4.01429525	3.46750771	5.54528786	4.97162472	6.3778688
Iigp1	-1.6443195	5.24363694	0.00071409	0.03663821	4.72525749	4.52310472	4.49197379	4.4153784	5.35374082	6.70527148	6.49073191
Fads2	-1.6650021	5.77103274	0.00082834	0.0384683	5.1991003	4.86031149	5.29427297	4.8761568	6.56017014	6.09159698	7.5156205
Anpep	-1.6824861	5.89989786	0.00037685	0.02891443	4.81716983	5.30020456	5.03499307	5.56296203	7.36047814	6.26347025	6.96000712
Plk2	-1.6915056	4.89075799	2.46E-06	0.01858742	4.43627506	3.96215554	4.15203672	4.11284077	5.85698468	5.84428543	5.8707277
Rhob	-1.6934861	5.27890134	0.00098367	0.04025325	4.57129965	4.49605631	3.97640325	5.16872716	6.51094272	5.61105398	6.61782629
Clec5a	-1.7386729	4.20968203	0.00090412	0.03970412	3.51250631	3.27454232	3.21576304	3.85533438	5.12766526	4.49827742	5.98368546
Actm1	-1.7488992	6.71091622	0.00032425	0.02821483	6.6840011	5.83095187	5.44343778	5.88716123	7.54542888	7.55722333	8.02820937
Sox4	-1.7685921	5.64675669	0.00010961	0.02162389	5.01374715	4.59942656	4.94929922	4.99268172	6.23996743	6.47717878	7.25499596
Ddb1	-1.7797946	6.17312588	0.001091	0.04219881	5.61727806	4.81272201	5.46658121	5.74484573	7.21470232	6.46369705	7.89205477
Zfp266	-1.7948315	5.55066307	0.00015769	0.0249392	5.18953777	4.68434713	4.0999331	5.15198035	6.56167856	6.68164255	6.48552205
Cd2ap	-1.8298519	6.1774242	6.29E-05	0.02078215	5.20082865	5.42799966	5.42350854	5.52047103	7.18722691	6.71737039	7.76456423
Clec4a3	-1.8763305	4.10432785	1.66E-05	0.02005732	3.01452669	3.02935236	3.518272	3.63859374	5.21295947	4.9594349	5.35715579
Il6st	-1.8796324	7.11660823	5.48E-05	0.02078215	6.59962114	6.04924941	6.22439903	6.37094514	7.92853678	8.74035796	7.90315689
Mmp7	-1.9937549	6.27696678	0.00129342	0.04422927	5.39907375	6.10270394	5.69108327	4.49714058	7.26090393	6.92064903	8.06721295
Spp1	-2.0517362	6.74139069	0.00135852	0.04467153	5.73352441	6.55286596	5.86010679	5.30180347	7.84480255	7.09963942	8.79699224
Mboat1	-2.1347667	6.44716701	0.00049643	0.03192308	5.92540761	5.09603449	5.39192356	5.71570237	7.08769075	7.30970908	8.60370121
Snord14a	-2.1595738	5.58422368	0.00083576	0.0384683	4.29799984	3.79398787	5.12521271	5.4175677	6.35170557	7.30485959	6.79823249
Cp	-2.311111	4.39776907	4.42E-05	0.02029375	3.17807805	3.216344	3.77801583	3.45673392	5.04656185	5.92762973	6.18102013
Chil3	-2.4798873	5.93381719	0.00074791	0.0370148	4.72626181	4.92027597	4.553206	5.2842896	7.65884823	6.12259562	8.27124312
Try10	-2.8232187	6.86398383	0.00186071	0.04933547	6.21347454	4.61468956	6.38318333	5.40478446	9.1996749	9.14879778	7.08328226
Snord70	-2.9054431	3.88881777	5.86E-05	0.02078215	2.40220626	2.98675999	2.35801392	2.82753136	5.95180923	6.11381199	4.58159163
Spink1	-2.9881065	5.53097627	0.00189615	0.04970113	5.46813038	3.09149689	4.99352608	3.44828344	7.60532093	7.86825442	6.24182175
Tff2	-3.1191927	9.32350859	0.00010118	0.02095845	8.27455329	8.5034732	8.3310718	6.83774859	10.906761	10.7022341	11.7087182
Clps	-3.2815775	7.26957324	0.00097594	0.04021101	6.28797001	4.75319024	7.09374179	5.31782947	9.43127747	10.0063078	7.99669593
Phlpp2	-3.5880983	6.78498621	0.00030072	0.027177	5.51207281	4.13741936	6.19821282	5.14121416	9.45014181	9.43209931	7.62374323
Rnase1	-4.0529356	6.03694034	0.00150664	0.0458877	4.58204144	3.33647013	6.00641518	3.47494509	8.98556504	9.43670935	6.63643618

Table S7. Differentially expressed genes between intratumoral TCRmsln cells post anti-PD-L1 at day 28; genes shown are p<0.06 (Adj)

SYMBOL	logFC	AveExpr	P.Value	adj.P.Val	m1 anti-PDI	m2 anti-PDI	m1 control	m2 control	m3 control
Gm4541	2.51198204	5.24736142	6.20E-06	0.02049359	6.9906101	6.51849119	4.33716978	4.2438739	4.14666213
Gm4541	2.51198204	5.24736142	6.20E-06	0.02049359	6.9906101	6.51849119	4.33716978	4.2438739	4.14666213
Gm4541	2.51198204	5.24736142	6.20E-06	0.02049359	6.9906101	6.51849119	4.33716978	4.2438739	4.14666213
Gm4541	2.51198204	5.24736142	6.20E-06	0.02049359	6.9906101	6.51849119	4.33716978	4.2438739	4.14666213
Gm4541	2.51198204	5.24736142	6.20E-06	0.02049359	6.9906101	6.51849119	4.33716978	4.2438739	4.14666213
Olfir1140	1.78552508	3.40127855	1.82E-05	0.03015733	4.43972773	4.50549187	2.73910557	2.68748907	2.63457853
Olfir837	1.69535834	3.6258283	0.000139	0.0542161	4.74500453	4.54108207	3.27494603	2.71125576	2.8568531
Olfir082	1.63191726	3.64915622	0.00022624	0.05811565	4.42849111	4.82767305	3.05672265	3.23428935	2.69815596
Taar7f	1.4274554	4.85547824	9.38E-05	0.05258791	5.78418928	5.63978585	4.24126972	4.36669687	4.24544949
Olfir394	1.274373	3.64360457	0.00020865	0.05804847	4.52290771	4.29354902	3.14630872	3.11244858	3.14277279
Herci	-1.3210393	6.04141428	0.00018361	0.0574519	5.33931567	5.15826574	6.56427953	6.67278519	6.47242525
Zfp507	-1.3412448	5.12148388	0.00013395	0.0542161	4.28054026	4.35293374	5.66766958	5.57052191	5.73575394
Elavl1	-1.377902	4.99174666	0.00014379	0.0542161	4.12165347	4.20835742	5.63333594	5.39972495	5.60466152
Pi4ka	-1.3988394	6.2068391	0.00017927	0.0574519	5.47645221	5.25861872	8.86686673	6.84275917	6.58949865
Mrp139	-1.4091583	6.61840367	0.0002037	0.05804847	5.56527338	5.98054405	7.20858968	7.13126482	7.20634641
Epc2	-1.4107417	5.66055026	0.00021139	0.05804847	4.77057071	4.85763977	6.46702817	6.14474051	6.06277216
Rc3h2	-1.4222652	5.49382365	0.00016546	0.05499784	4.80311313	4.47693562	5.99583208	6.01219539	6.177884131
Wnki	-1.4289075	7.5361351	0.0002059	0.05804847	6.67980555	6.67777561	7.89090956	8.09164563	8.34053915
C2cd3	-1.484216	5.94844537	8.41E-05	0.05258791	4.95142308	5.16440847	6.56675697	6.60232356	6.457311475
E430025E211	-1.4896194	5.272282	0.00011552	0.05258791	4.27753038	4.47949034	5.72396502	5.85183061	6.02859363
Atp10d	-1.5074624	6.00958269	0.00016688	0.0542161	5.17023604	5.03997444	6.57544641	6.85365834	6.40859821
Etl3l	-1.5163405	5.96131764	0.00015589	0.0542161	5.00812531	5.09490137	6.49274281	6.83021886	6.38059988
Zdhhc15	-1.5308238	6.06684312	0.00019686	0.05804847	5.16478875	5.13190899	6.41095703	6.66883883	6.957722
Gosr2	-1.5524397	6.0718912	0.00018281	0.0574519	5.36269848	4.91875217	6.70392854	6.85127565	6.52429074
Teeb1	-1.5545239	6.99720435	7.30E-05	0.05258791	6.1570989	5.97188113	7.49428457	7.61640276	7.74635439
Adipor2	-1.5551812	6.40441781	0.00014837	0.0542161	5.68130106	5.26131716	6.89224546	7.17024025	7.0169851
Csnk2a1	-1.5856183	6.38149688	0.00022061	0.05804847	5.74089003	5.11934555	6.97355733	7.01124682	7.06244499
Dusp1	-1.5999027	8.11055073	0.00021992	0.05804847	7.35530128	6.94591688	8.47451667	8.82920191	8.94781689
Tmem50b	-1.5999238	6.33939975	0.00010196	0.05258791	5.36834402	5.37254691	6.78099581	7.22361533	6.90658672
Sec24a	-1.6091022	5.6874715	0.0001217	0.0537313	4.47571557	4.96485614	6.40283483	6.3268488	6.25848041
Tsyp1l	-1.6172846	8.07833353	0.00021876	0.05804847	6.97082139	7.24511615	8.39390224	8.96702114	8.81571571
Nacc1	-1.6327018	6.86992538	0.00015669	0.0542161	6.05806001	5.72254854	7.25379613	7.58733098	7.72789124
Npat	-1.6381982	5.45578651	0.00021611	0.05804847	4.25381349	4.69192168	5.83735999	6.33999894	6.15583848
multi	-1.6419573	6.65761539	0.00010976	0.05258791	5.59961854	5.74526344	7.03186377	7.11936056	7.49197049
SmeG	-1.6453429	5.59285064	6.41E-05	0.05258791	4.68050004	4.53078973	6.05580238	6.29875488	6.398848828
Msla	-1.6490435	6.55547164	0.00022839	0.05811565	5.89906486	5.23302626	7.18499069	7.32376318	7.13659781
Rppr1	-1.655171	5.52796828	0.00015193	0.0542161	4.5484245	4.52130683	5.93781114	6.10758183	6.52471709
Ints6	-1.6609969	5.3299685	3.93E-05	0.04824068	4.3106007	4.36219676	5.86660119	6.01232624	6.11321396
Snhg5	-1.704682	5.56290027	4.19E-05	0.04824068	4.49486857	4.62637019	6.08645777	6.27762242	6.32918237
Cla4	-1.7167173	6.12924953	9.70E-05	0.05258791	4.86912956	5.32995673	6.96578116	6.65795508	6.82342516
Tnxt1	-1.7304068	6.14683447	0.0001181	0.05258791	5.11705056	5.10044215	6.94899768	6.49330133	7.07466655
Acl5	-1.7361752	6.25440076	8.69E-05	0.05258791	5.07985267	5.34595279	6.7290225	7.20274695	6.9154644
Atfpap2	-1.7425134	6.51545164	9.62E-05	0.05258791	5.50960898	5.43027825	7.3341154	6.88671944	7.41653615
Tci	-1.74783	6.28507677	5.60E-05	0.05258791	5.16615298	5.30660457	7.13562568	7.07797808	6.73902253
Paplg	-1.7534953	5.31610937	5.81E-05	0.05258791	4.27936366	4.24866067	6.19810531	5.75559398	6.09882324
Mri	-1.7600451	5.61068904	3.82E-05	0.04824068	4.4425818	4.66674003	6.19740321	6.47423202	6.27248813
Nfkbia	-1.7621786	6.99820067	0.0001377	0.0542161	6.1682435	5.7354347	7.4804074	7.97230367	7.6565053
Gmps	-1.7634308	5.87105118	3.43E-05	0.04824068	4.6620343	4.96485108	6.59422939	6.49652071	6.63987045
Nsmf4	-1.7823593	6.72789013	0.0001477	0.0542161	5.84351443	5.4734347	7.64121388	7.09413162	7.58715154
Ranbp9	-1.7824816	6.9341318	0.00015663	0.0542161	5.77742015	5.95186555	7.38318344	8.043855	7.514333484
Ddx52	-1.7977198	6.21986932	0.00022039	0.05804847	5.36424394	4.91823096	6.56543401	7.07149419	7.17994349
Laptm4a	-1.8103458	7.38134964	0.0002284	0.05811565	6.68186987	5.90841448	7.98543562	8.27610216	8.05492696
Psmg2	-1.824803	5.62945479	0.00010764	0.05258791	4.50620401	4.609924	6.04533164	6.70681022	6.39643908
Ppp6r3	-1.8266237	6.39456413	7.62E-05	0.05258791	5.42005611	5.17712376	6.8149534	7.31088368	7.24980372
Alg3	-1.8607569	6.27763736	0.00016119	0.0548868	5.07433062	5.24803579	6.62416379	7.39417816	7.04747846
Parp4	-1.8698475	5.88532383	0.00011701	0.05258791	4.77517845	4.75165224	6.27717379	7.00119509	6.62142407
Ncbp1	-1.8983176	6.06958948	0.00020498	0.05804847	4.80551348	5.05568435	6.35317492	7.14691227	6.98666236
Zfp646	-1.9250562	5.56262944	0.00011653	0.05258791	4.43758076	4.37761068	5.93309967	6.69434044	6.37051567
Psmf7	-1.9255831	6.67128464	0.00010259	0.05258791	5.50029064	5.53157897	7.36789623	7.84142573	7.11523165
Gm8369	-1.9300916	6.20962288	7.13E-05	0.05258791	4.84670726	5.25642859	6.71697609	6.99464832	7.23335413
Cd84	-1.9400691	6.37664684	0.0001985	0.05804847	5.58237957	4.84283117	6.94138058	7.43906147	7.07758141
Fzr1l	-1.9418466	6.45287482	5.85E-05	0.05258791	5.39910373	5.17643002	7.44792681	6.89870884	7.34220468
Tug1	-1.9570417	5.45445682	0.00018134	0.0574519	4.05541356	4.50506799	5.79680701	6.40157177	6.51346878
Ufm1	-1.962452	5.33951522	1.66E-05	0.02951325	4.2753614	4.822525	5.98783199	6.22487792	6.16077813
Pck	-2.0266588	6.51279342	7.14E-05	0.05258791	5.10720099	5.48639524	7.04954513	7.66440009	7.25642563
Tespa1	-2.1197527	3.6010321	0.00015584	0.0542161	5.3242471	4.822525	6.71661297	7.49870506	7.40869842
Zfp143	-2.1263756	6.08467221	0.0001504	0.0542161	4.74045369	4.87723996	6.54111536	6.79191318	7.47263883
Lilrb4a	-2.1599237	6.51594167	9.56E-05	0.05258791	5.5837039	4.856271	7.62922486	7.39592344	7.11458515
Nduf2c	-2.1986359	6.8645182	7.89E-05	0.05258791	5.33644536	5.75422792	7.85982179	8.05655729	7.31553864
Rgs2	-2.226819	5.59955805	0.0001086	0.05258791	5.34302599	5.00390735	6.97818326	7.34411223	7.87856141
Ppp2cb	-2.2334832	6.1150749	4.20E-05	0.04824068	4.75642782	4.79350685	6.57582767	7.17766578	7.27185934
Tap1l	-2.274722	6.51275218	1.63E-05	0.02951325	5.3250496	4.96754837	7.20517562	7.4099126	7.6560747
Dctn5	-2.278209	6.0669222	1.01E-05	0.02610072	4.59838702	4.80161233	6.95420407	7.19951666	6.77974103
Sfpq	-2.3213119	6.35443105	0.00016596	0.05499784	5.0835424	4.83974539	6.64929549	7.52208373	7.67748822
Zfp953	-2.3759407	5.11328392	0.00010452	0.05258791	3.25787714	4.11756189	5.75616	6.062059	6.37276156
Trappa4	-2.3902657	6.10735049	0.00014925	0.0542161	4.63853546	4.70784666	6.40218452	7.46203494	7.32615085
Ssr2	-2.406668	7.70208826	9.06E-05	0.05258791	6.66893737	5.84722315	8.330386	8.97221423	8.69168057
Scd1	-2.4195298	5.51473622	1.23E-05	0.02837912	3.87872556	4.24731115	6.253429	6.4633026	6.73091327
Fam26f	-2.4306921	6.26526306	9.83E-05	0.05258791	4.76724663	4.84644899	6.64304283	7.690901	7.37867585
Gm20262	-2.4388861	6.0380008	0.00021267	0.05804847	5.13742286	4.01191545	6.81326901	7.36567993	6.86171674
Snord69	-2.4588832	6.75319579	6.79E-05	0.05258791	5.71929173	4.83643996	7.74610887	7.48827725	7.97586112
SmeK2	-2.5042263	5.70250035	4.38E-05	0.04824068	4.51919214	3.88073703	6.34668743	7.0270072	6.73887794
Copb1	-2.5202435	5.7155598	7.48E-06	0.02164523	4.35710309	4.0491167	6.65465		

Table S8. Comparison of in vivo- and in vitro-generated effector T cells

Genes upregulated in both in vivo and in vitro effector T cells

Entrez.Gene	Probe.Set.ID	Symbol	Name	logFC.Wherry	adj.P.Val.Wherry	SYMBOL	logFC.Stromnes	Entrez.Gene
110454	93078_at	Ly6a	lymphocyte antigen 6 complex, locus A	2.034646935	0.000139683	Ly6a	1.456919252	110454
11799	101521_at	Birc5	baculoviral IAP repeat-containing 5	1.066415572	0.020747044	Birc5	2.165379004	11799
12306	100569_at	Anxa2	annexin A2	2.841932749	0.001011005	Anxa2	1.450060982	12306
12367	98437_at	Casp3	caspase 3	0.492927546	0.362899496	Casp3	2.019144219	12367
12367	98436_s_at	Casp3	caspase 3	1.047546941	0.021624534	Casp3	2.019144219	12367
12442	94294_at	Ccnb2	cyclin B2	1.361496681	0.038622117	Ccnb2	3.950156458	12442
12477	97718_at	Ctla4	cytotoxic T-lymphocyte-associated protein 4	1.258137298	0.010956421	Ctla4	1.898445272	12477
12534	100128_at	Cdk1	cyclin-dependent kinase 1	1.205602776	0.014152511	Cdk1	3.03459354	12534
13024	162421_r_at	Ctla2a	cytotoxic T lymphocyte-associated protein 2 alpha	0.26857873	NA	Ctla2a	1.639075903	13024
13024	96912_s_at	NA	NA	3.711808677	7.94E-07	Ctla2a	1.639075903	13024
13025	103518_at	Ctla2b	cytotoxic T lymphocyte-associated protein 2 beta	3.702218282	0.000144775	Ctla2b	2.087852811	13025
13476	96115_at	Reep5	receptor accessory protein 5	1.043012039	0.027342577	Reep5	1.248668304	13476
13476	103886_at	Reep5	receptor accessory protein 5	0.943865081	0.130121714	Reep5	1.248668304	13476
14062	92267_at	F2r	coagulation factor II (thrombin) receptor	0.244693372	0.831822927	F2r	1.365416294	14062
14062	95474_at	F2r	coagulation factor II (thrombin) receptor	1.436584106	0.018769027	F2r	1.365416294	14062
14062	95313_at	F2r	coagulation factor II (thrombin) receptor	0.707585106	0.16271395	F2r	1.365416294	14062
14190	97949_at	Fgl2	fibrinogen-like protein 2	1.60636239	0.009465561	Fgl2	1.309376898	14190
14190	162289_at	Fgl2	fibrinogen-like protein 2	-0.07450237	NA	Fgl2	1.309376898	14190
14727	92217_s_at	NA	NA	1.39753973	0.001359851	Lilrb4	2.697899071	14727
14727	100325_at	Gp49a	glycoprotein 49 A	2.201149039	0.0020597	Lilrb4	2.697899071	14727
14938	102995_s_at	Gzma	granzyme A	4.309657667	7.94E-07	Gzma	3.347482238	14938
14939	102877_at	Gzmb	granzyme B	4.732739608	7.94E-07	Gzmb	5.528603376	14939
15902	93013_at	Id2	inhibitor of DNA binding 2	2.431238117	8.19E-05	Id2	1.794394262	15902
16765	97910_at	Stmn1	stathmin 1	-0.052387224	NA	Stmn1	2.601190194	16765
16765	97909_at	Stmn1	stathmin 1	2.033113774	0.02296873	Stmn1	2.601190194	16765
16852	99669_at	Lgalst	lectin, galactose binding, soluble 1	3.977155503	4.96E-06	Lgalst	2.44824482	16852
20135	102001_at	Rrm2	ribonucleotide reductase M2	2.164079127	0.026201924	Rrm2	3.436756226	20135
20198	99051_at	S100a4	S100 calcium binding protein A4	3.611848499	1.46E-05	S100a4	1.678642673	20198
20200	92770_at	S100a6	S100 calcium binding protein A6 (calycylin)	5.246299371	7.94E-07	S100a6	1.7789774	20200
217430	99366_at	Pulc3	PQ loop repeat containing	2.257208282	0.005191081	Pulc3	1.514072765	217430
21973	99578_at	Top2a	topoisomerase (DNA) II alpha	1.956504980	0.021260651	Top2a	4.25443363	21973
26934	94953_at	Racgap1	Rac GTPase-activating protein 1	1.04130677	0.020747044	Racgap1	1.536928546	26934
56449	95755_at	Ybx3	Y box protein 3	1.210249755	0.006900525	Ybx3	2.508800017	56449
97165	93250_r_at	Hmgb2	high mobility group box 2	1.683259017	0.014414477	Hmgb2	2.443823667	97165

Genes downregulated in both in vivo and in vitro effector T cells

Entrez.Gene	Probe.Set.ID	GeneSymbol	Name	logFC.Wherry	adj.P.Val.Wherry	transcript_cluster_id	adj.P.Val.Stromnes	Entrez.Gene
14357	102924_at	Dtx1	deltex 1 homolog (Drosophila)	-1.019202631	0.047991238	Dtx1	-1.327267732	14357
15002	104429_at	H2-Ob	histocompatibility 2, O region beta locus	-1.416516768	0.00468241	H2-Ob	-1.365954966	15002
16194	104268_at	Il6ra	interleukin 6 receptor, alpha	-1.975896333	0.000796944	Il6ra	-2.26449827	16194
16195	98349_at	Il6st	interleukin 6 signal transducer	-0.377739976	0.492967334	Il6st	-1.000617446	16195
16195	94345_at	Il6st	interleukin 6 signal transducer	-2.729806116	0.005129336	Il6st	-1.000617446	16195
16197	99030_at	Il7r	interleukin 7 receptor	-2.325911276	0.000523617	Il7r	-1.199540918	16197
20440	94431_at	St6galh	beta galactoside alpha 2,6 sialyltransferase 1	-0.116526474	0.933412549	St6galh	-1.050600839	20440
20440	94432_at	St6galh	beta galactoside alpha 2,6 sialyltransferase 1	-3.367076815	3.43E-06	St6galh	-1.050600839	20440

Genes upregulated and unique to in vitro-generated engineered T cells

Entrez.Gene	Probe.Set.ID	Symbol	Name	logFC.Wherry	adj.P.Val.Wherry	SYMBOL	logFC.Stromnes	Entrez.Gene
100037258	102415_r_at	Dnajc3	Dnaj (Hsp40) homolog, subfamily C, member 3	-0.237516436	NA	Dnajc3	1.568877419	100037258
100037258	161868_r_at	Dnajc3	Dnaj (Hsp40) homolog, subfamily C, member 3	0.129566071	NA	Dnajc3	1.568877419	100037258
100037258	94343_at	Dnajc3	Dnaj (Hsp40) homolog, subfamily C, member 3	-0.406825571	0.680330325	Dnajc3	1.568877419	100037258
100037258	102414_i_at	Dnajc3	Dnaj (Hsp40) homolog, subfamily C, member 3	-0.525823809	0.512094141	Dnajc3	1.568877419	100037258
100604	104523_at	Lrrc8c	leucine rich repeat containing 8 family, member C	0.202336145	0.842460519	Lrrc8c	1.447968146	100604
102545	98492_at	Cntm7	CKLF-like MARVEL transmembrane domain containing 7	0.224027091	0.803955525	Cntm7	1.660179951	102545
103136	103413_at	Pwp1	PWP1 homolog (S. cerevisiae)	-0.324895041	0.555764277	Pwp1	1.385442346	103136
103573	94228_at	Xpo1	exportin 1, CRM1 homolog (yeast)	-0.338069046	0.819416553	Xpo1	1.471602195	103573
103573	94131_at	Xpo1	exportin 1, CRM1 homolog (yeast)	-0.144940723	NA	Xpo1	1.471602195	103573
103733	99924_at	Tubg1	tubulin, gamma 1	0.151149365	NA	Tubg1	1.548369953	103733
103963	94237_at	Rpn1	ribophorin I	0.204767271	0.844536943	Rpn1	1.379914153	103963
103963	161400_f_at	Rpn1	ribophorin I	-0.01631971	0.993393788	Rpn1	1.379914153	103963
104444	94094_at	Rexo2	REX2, RNA exonuclease 2 homolog (S. cerevisiae)	0.211101686	0.941382	Rexo2	1.416120702	104444
104458	96693_at	Rars	arginyl-tRNA synthetase	-0.304627216	0.876016094	Rars	1.342041745	104458
104721	161386_f_at	Ddx1	DEAD (Asp-Glu-Ala-Asp) box polypeptide 1	0.173004962	0.886679297	Ddx1	2.017571583	104721
104721	93257_at	Ddx1	DEAD (Asp-Glu-Ala-Asp) box polypeptide 1	-0.036205925	0.986969008	Ddx1	2.017571583	104721

105440	100982_at	Kctd9	potassium channel tetramerisation domain containing 9	0.232445807 NA		Kctd9	1.202065897	105440
106344	103418_at	Rfc4	replication factor C (activator 1) 4	0.437881 NA		Rfc4	2.307089605	106344
106795	102354_at	Tcf19	transcription factor 19	0.615577656	0.214826499	Tcf19	1.884797593	106795
106840	104434_at	Unc119b	unc-119 homolog B (C. elegans)	0.65834207	0.19677026	Unc119b	1.050832064	106840
106957	103459_at	Slc39a6	solute carrier family 39 (metal ion transporter), member 6	-0.039813466	0.986969008	Slc39a6	1.503084046	106957
107045	103630_at	Lars	leucyl-tRNA synthetase	-0.334179272	0.67887747	Lars	1.020707592	107045
107358	96276_r_at	Tm9sf3	transmembrane 9 superfamily member 3	0.137947641 NA		Tm9sf3	1.550679216	107358
107358	162226_r_at	Tm9sf3	transmembrane 9 superfamily member 3	-0.08888664 NA		Tm9sf3	1.550679216	107358
107358	96275_f_at	Tm9sf3	transmembrane 9 superfamily member 3	0.164939545	0.948320976	Tm9sf3	1.550679216	107358
107508	96628_at	Eprs	glutamyl-prolyl-tRNA synthetase	-0.104594048	0.537380522	Eprs	1.898967074	107508
107513	97722_at	Ssr1	signal sequence receptor, alpha	0.366107704	0.580099387	Ssr1	1.49615308	107513
107513	94511_at	Ssr1	signal sequence receptor, alpha	-0.102533027	0.949779251	Ssr1	1.49615308	107513
107939	96174_at	Pom121	nuclear pore membrane protein 121	-0.347643338	0.612561656	Pom121	1.059079171	107939
107995	96319_at	Cdc20	cell division cycle 20	0.861015077	0.185856629	Cdc20	3.294638848	107995
108014	96834_at	Srsf9	serine/arginine-rich splicing factor 9	-0.276531452	0.850814513	Srsf9	1.354815547	108014
108037	162458_i_at	Shmt2	serine hydroxymethyltransferase 2 (mitochondrial)	0.037842173 NA		Shmt2	1.730700543	108037
108101	160815_at	Fermt3	fermitin family homolog 3 (Drosophila)	-0.05975542	0.972911278	Fermt3	1.034536691	108101
108671	160203_at	Dnaj9	DnaJ (Hsp40) homolog, subfamily C, member 9	-0.14141935 NA		Dnaj9	1.605732369	108671
108907	102115_r_at	Nusap1	nucleolar and spindle associated protein 1	0.159765878	0.901544291	Nusap1	3.65049305	108907
108907	161000_i_at	Nusap1	nucleolar and spindle associated protein 1	0.954317828	0.229979223	Nusap1	3.65049305	108907
108961	103204_r_at	Ezf8	E2F transcription factor 8	0.54769842	0.261729403	Ezf8	2.11073824	108961
108961	103203_f_at	Ezf8	E2F transcription factor 8	0.973320389	0.252827438	Ezf8	2.11073824	108961
108989	95007_at	Tpr	translocated promoter region	-0.183715243		Tpr	1.11372256	108989
108989	104192_at	Tpr	translocated promoter region	-0.07967157 NA		Tpr	1.11372256	108989
109154	94000_at	NA	NA	-0.107969157 NA		Mlec	1.239414654	109154
109212	94211_at	Fam64a	family with sequence similarity 64, member A	0.166903624	0.891232036	Fam64a	1.045460482	109212
109270	103511_at	Prr5	proline rich 5 (renal)	0.144965969 NA		Prr5	1.160405319	109270
110006	97538_at	Gusb	glucuronidase, beta	-0.42837285	0.719964222	Gusb	1.011700397	110006
110033	95118_r_at	Kif22	kinesin family member 22	0.344292588	0.541897575	Kif22	2.555809014	110033
110052	160286_at	Dek	DEK oncogene (DNA binding)	0.367349575	0.594227329	Dek	1.194034511	110052
110196	162217_r_at	Fdps	farnesyl diphosphate synthetase	0.135912667 NA		Fdps	1.559562827	110196
110196	160424_f_at	Fdps	farnesyl diphosphate synthetase	-0.06104893	0.964759131	Fdps	1.559562827	110196
110196	162281_at	Fdps	farnesyl diphosphate synthetase	0.245318634	0.775097629	Fdps	1.559562827	110196
110196	99098_at	Fdps	farnesyl diphosphate synthetase	-0.168339343	0.92948193	Fdps	1.559562827	110196
110611	96359_at	Hdlbp	high density lipoprotein (HDL) binding protein	-0.106270011	0.941382	Hdlbp	1.532279272	110611
110749	100890_at	Chafib	chromatin assembly factor 1, subunit B (p60)	0.21896202	0.845999571	Chafib	1.809943896	110749
110750	104317_at	Cse1l	chromosome segregation 1-like (S. cerevisiae)	-0.444644042	0.720706828	Cse1l	1.258458883	110750
110809	101022_at	Srsf1	serine/arginine-rich splicing factor 1	0.02982264 NA		Srsf1	1.623018429	110809
110809	104586_at	Srsf1	serine/arginine-rich splicing factor 1	-0.143230891	0.965482692	Srsf1	1.623018429	110809
110809	160141_r_at	Srsf1	serine/arginine-rich splicing factor 1	0.018414856 NA		Srsf1	1.623018429	110809
110809	160539_at	Srsf1	serine/arginine-rich splicing factor 1	0.148965441 NA		Srsf1	1.623018429	110809
110842	96112_at	EtfA	electron transferring flavoprotein, alpha polypeptide	-0.199817322	0.951684169	EtfA	1.406000507	110842
110956	162344_at	D17H6S56E-; DNA segment, Chr 17, human D6S56 E 5		0.163405933 NA		D17H6S56E-5	1.192856006	110956
110956	104333_at	D17H6S56E-; DNA segment, Chr 17, human D6S56 E 5		-0.034513862 NA		D17H6S56E-5	1.192856006	110956
112405	95468_at	Egln1	EGL nine homolog 1 (C. elegans)	-0.188590511	0.881662925	Egln1	1.511018202	112405
11431	104160_at	NA	NA	0.093160561 NA		Acp1	1.859006584	11431
11431	96053_i_at	NA	NA	0.179089148 NA	0.869098389	Acp1	1.859006584	11431
11431	93219_at	NA	NA	-0.229147156 NA	0.788808158	Acp1	1.859006584	11431
11431	96052_at	NA	NA	0.060658263 NA	0.965125422	Acp1	1.859006584	11431
11431	161659_f_at	NA	NA	0.022264841 NA		Acp1	1.859006584	11431
11431	96054_f_at	NA	NA	0.117824593 NA		Acp1	1.859006584	11431
114663	98420_at	Impa2	inositol (myo)-(or 4)-monophosphatase 2	0.068936402 NA		Impa2	2.29844919	114663
11501	103024_at	Adam8	a disintegrin and metallopeptidase domain 8	0.453331141	0.352880855	Adam8	1.229020179	11501
11566	99038_at	Adss	adenylosuccinate synthetase, non muscle	0.047122557	0.978790518	Adss	1.773031222	11566
11566	99039_g_at	Adss	adenylosuccinate synthetase, non muscle	0.109949025	0.966606198	Adss	1.773031222	11566
11637	95148_at	Ak2	adenylate kinase 2	0.175958673	0.909614406	Ak2	1.146480804	11637
117198	97302_at	Ivns1abp	influenza virus NS1A binding protein	-1.119284274	0.403328783	Ivns1abp	1.742329237	117198
11740	100617_at	Slc25a5	solute carrier family 25 (mitochondrial carrier, adenine nucleoside)	0.045202114	0.973050659	Slc25a5	1.337437821	11740
11740	100618_f_at	Slc25a5	solute carrier family 25 (mitochondrial carrier, adenine nucleoside)	0.235774998	0.842472769	Slc25a5	1.337437821	11740
11740	100619_r_at	Slc25a5	solute carrier family 25 (mitochondrial carrier, adenine nucleoside)	0.182253201	0.866637141	Slc25a5	1.337437821	11740
11747	93083_at	Anxa5	annexin A5	0.108282405	0.950433011	Anxa5	1.27474613	11747
11765	103242_at	Ap1g1	adaptor protein complex AP-1, gamma 1 subunit	-0.173020774	0.921673836	Ap1g1	1.106553523	11765
11765	161593_r_at	Ap1g1	adaptor protein complex AP-1, gamma 1 subunit	0.149768543 NA		Ap1g1	1.106553523	11765
11765	92288_at	Ap1g1	adaptor protein complex AP-1, gamma 1 subunit	-0.016526959 NA		Ap1g1	1.106553523	11765
11772	100492_at	Ap2a2	adaptor-related protein complex 2, alpha 2 subunit	0.066455283 NA		Ap2a2	1.144563701	11772
11772	102835_at	Ap2a2	adaptor-related protein complex 2, alpha 2 subunit	0.15691137	0.908363662	Ap2a2	1.144563701	11772
11938	99579_s_at	Atp2a2	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2	-0.170002479 NA		Atp2a2	1.17930015	11938
11946	100753_at	Atp5a1	ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit	-0.456687007	0.759334942	Atp5a1	1.103095422	11946
11950	96898_at	Atp5f1	ATP synthase, H+ transporting, mitochondrial Fo complex, sigma 3 subunit	0.134741953 NA		Atp5f1	1.040650454	11950

11991	94303_at	Hnrmpd	heterogeneous nuclear ribonucleoprotein D	0.297781849	0.783241765	Hnrmpd	1.247655778	11991
12017	160540_at	Bag1	BCL2-associated athanogene 1	0.525621568	0.322165225	Bag1	1.047863405	12017
12043	98870_at	Bcl2	B cell leukemia/lymphoma 2	-0.224785378	0.822790247	Bcl2	1.749843723	12043
12043	98869_g_at	Bcl2	B cell leukemia/lymphoma 2	-1.025138331	0.018769027	Bcl2	1.749843723	12043
12043	98868_at	Bcl2	B cell leukemia/lymphoma 2	-2.27871778	0.000513338	Bcl2	1.749843723	12043
12125	100988_at	Bcl2l11	BCL2-like 11 (apoptosis facilitator)	0.096725286	0.950433011	Bcl2l11	1.090755007	12125
12125	99418_at	Bcl2l11	BCL2-like 11 (apoptosis facilitator)	0.082961279	0.951911208	Bcl2l11	1.090755007	12125
12125	99419_g_at	Bcl2l11	BCL2-like 11 (apoptosis facilitator)	0.228911208	NA	Bcl2l11	1.090755007	12125
12144	102631_at	Blm	Bloom syndrome, RecQ helicase-like	0.095668166	NA	Blm	2.532907187	12144
12181	161599_i_at	Bop1	block of proliferation 1	0.269334348	0.842427269	Bop1	1.030560023	12181
12181	160878_at	Bop1	block of proliferation 1	-0.333315599	0.525242121	Bop1	1.030560023	12181
12189	102976_at	Brcat1	breast cancer 1	0.622867436	0.321487874	Brcat1	1.49704737	12189
12190	102911_at	Brcat2	breast cancer 2	0.088979851	NA	Brcat2	1.067055439	12190
12215	101078_at	Bsg	basigin	0.719415321	0.257862521	Bsg	1.038128631	12215
12235	162264_s_at	Bub1	budding uninhibited by benzimidazoles 1 homolog (S. cerevi	0.122892162	NA	Bub1	2.299014742	12235
12235	104097_at	Bub1	budding uninhibited by benzimidazoles 1 homolog (S. cerevi	1.068347864	NA	Bub1	2.299014742	12235
12235	97095_at	Bub1	budding uninhibited by benzimidazoles 1 homolog (S. cerevi	0.349184585	NA	Bub1	2.299014742	12235
12237	101961_at	Bub3	budding uninhibited by benzimidazoles 3 homolog (S. cerevi	0.062187874	0.973497364	Bub3	1.006759475	12237
12261	96856_at	C1qbp	complement component 1, q subcomponent binding protein	-0.229602513	0.796249536	C1qbp	1.094148133	12261
12261	96857_at	C1qbp	complement component 1, q subcomponent binding protein	-0.036036139	0.979859538	C1qbp	1.094148133	12261
12315	92632_at	NA	NA	0.567907714	0.478034389	Calm3	1.127563997	12315
12315	92631_f_at	NA	NA	-0.13296742	0.924416438	Calm3	1.127563997	12315
12330	160180_at	Canx	calnexin	-0.19421555	0.876016094	Canx	1.528190198	12330
12330	94886_at	Canx	calnexin	0.087426956	NA	Canx	1.528190198	12330
12340	93499_at	Capz2	capping protein (actin filament) muscle Z-line, alpha 1	0.177367604	0.940766699	Capz2	1.035125233	12340
12402	100291_at	Cbl	Casitas B-lineage lymphoma	-0.002129341	NA	Cbl	1.092284343	12402
12412	160797_r_at	Cbx1	chromobox 1	-0.001489591	NA	Cbx1	1.275627951	12412
12412	96775_at	Cbx1	chromobox 1	0.018822665	NA	Cbx1	1.275627951	12412
12419	95614_at	Cbx5	chromobox 5	0.095648579	0.94985528	Cbx5	1.415784621	12419
12419	104259_at	Cbx5	chromobox 5	0.232185594	NA	Cbx5	1.415784621	12419
12428	99186_at	Cena2	cyclin A2	0.520260103	0.301597447	Cena2	3.398899857	12428
12447	103034_at	Cene1	cyclin E1	0.247390665	NA	Cene1	2.308837433	12447
12448	97182_at	Cene2	cyclin E2	0.016329167	NA	Cene2	2.921368764	12448
12450	160127_at	Ceng1	cyclin G1	-0.035311988	0.987035615	Ceng1	1.879662247	12450
12460	162052_i_at	Ccs	copper chaperone for superoxide dismutase	-0.144047814	NA	Ccs	1.019121827	12460
12460	103909_at	Ccs	copper chaperone for superoxide dismutase	-0.055629035	NA	Ccs	1.019121827	12460
12460	162382_f_at	Ccs	copper chaperone for superoxide dismutase	0.036920752	NA	Ccs	1.019121827	12460
12460	161506_r_at	Ccs	copper chaperone for superoxide dismutase	0.247057474	0.774715551	Ccs	1.019121827	12460
12460	162351_f_at	Ccs	copper chaperone for superoxide dismutase	-0.09980586	NA	Ccs	1.019121827	12460
12461	160442_at	Cct2	chaperonin containing Tcp1, subunit 2 (beta)	-0.087534639	NA	Cct2	1.276093579	12461
12462	98153_at	Cct3	chaperonin containing Tcp1, subunit 3 (gamma)	-1.037498544	0.228047291	Cct3	1.111652785	12462
12462	98446_s_at	NA	NA	-0.838029931	0.24547444	Cct3	1.111652785	12462
12462	161238_f_at	Cct3	chaperonin containing Tcp1, subunit 3 (gamma)	-0.047760963	NA	Cct3	1.111652785	12462
12465	93295_at	Cct5	chaperonin containing Tcp1, subunit 5 (epsilon)	-0.49895931	0.650618992	Cct5	1.022351537	12465
12465	161514_at	Cct5	chaperonin containing Tcp1, subunit 5 (epsilon)	-0.235679634	0.823950285	Cct5	1.022351537	12465
12469	160102_at	Cct8	chaperonin containing Tcp1, subunit 8 (theta)	-0.446950675	0.746938122	Cct8	1.198880465	12469
12530	97390_at	Cdc25a	cell division cycle 25A	0.052862815	NA	Cdc25a	1.958121113	12530
12530	97389_at	Cdc25a	cell division cycle 25A	-0.08435653	0.950433011	Cdc25a	1.958121113	12530
12532	102934_s_at	Cdc25c	cell division cycle 25C	0.648948174	0.214792628	Cdc25c	1.235456075	12532
12532	102935_at	Cdc25c	cell division cycle 25C	0.351843627	0.531915171	Cdc25c	1.235456075	12532
12544	102403_at	Cde45	cell division cycle 45	0.394702526	0.57078786	Cde45	2.887004404	12544
12566	94412_at	Cdk2	cyclin-dependent kinase 2	0.382400046	0.548701575	Cdk2	1.358766467	12566
12566	94411_at	Cdk2	cyclin-dependent kinase 2	-0.00513376	NA	Cdk2	1.358766467	12566
12567	160538_at	NA	NA	-0.036179449	NA	Cdk4	1.562055842	12567
12567	101017_at	NA	NA	0.056388804	NA	Cdk4	1.562055842	12567
12575	94881_at	Cdkn1a	cyclin-dependent kinase inhibitor 1A (P21)	0.17881074	NA	Cdkn1a	3.048599275	12575
12575	98067_at	Cdkn1a	cyclin-dependent kinase inhibitor 1A (P21)	0.232991406	0.799778045	Cdkn1a	3.048599275	12575
12615	100616_at	Cenpa	centromere protein A	0.526553801	0.73416326	Cenpa	1.41396717	12615
12649	103064_at	Chek1	checkpoint kinase 1	0.875427368	0.091425671	Chek1	2.131571055	12649
12700	100022_at	Cish	cytokine inducible SH2-containing protein	0.131089323	NA	Cish	2.00329235	12700
12704	93687_r_at	Cit	citron	0.321999221	0.739326797	Cit	1.10133496	12704
12704	93686_s_at	Cit	citron	0.147579848	NA	Cit	1.10133496	12704
12773	94696_at	Ccr4	chemokine (C-C motif) receptor 4	0.055205673	NA	Ccr4	1.915012866	12773
12858	160438_at	Cox5a	cytochrome c oxidase subunit Va	0.16243476	0.90471119	Cox5a	1.529109361	12858
12858	161490_at	Cox5a	cytochrome c oxidase subunit Va	0.153880515	NA	Cox5a	1.529109361	12858
12859	93110_at	NA	NA	0.56990738	0.444969604	Cox5b	1.138650127	12859
12866	93820_at	Cox7a2	cytochrome c oxidase subunit VIIa 2	0.379289648	0.599430938	Cox7a2	1.053907985	12866
12868	92860_at	NA	NA	-0.2130885	NA	Cox8a	1.260404077	12868
12894	93320_at	Cpt1a	carnitine palmitoyltransferase 1a, liver	0.35816104	0.654472568	Cpt1a	1.204086365	12894

12925	94061_at	Crip1	cysteine-rich protein 1 (intestinal)	1.758646288	0.065539432	Crip1	1.140017805	12925
12934	98298_at	Dpysl2	dihydropyrimidinase-like 2	0.018829505	NA	Dpysl2	1.80557627	12934
12974	99666_at	Cs	citrate synthase	0.103059156	0.950433011	Cs	1.25363411	12974
13000	94483_at	Csnk2a2	casein kinase 2, alpha prime polypeptide	-0.015521423	0.993475044	Csnk2a2	1.574377056	13000
13000	98245_at	NA	NA	-0.053519909	NA	Csnk2a2	1.574377056	13000
13000	94482_at	Csnk2a2	casein kinase 2, alpha prime polypeptide	0.10054266	NA	Csnk2a2	1.574377056	13000
13006	102853_at	Smc3	structural maintenance of chromosomes 3	-0.102740871	NA	Smc3	1.58394493	13006
13018	100148_at	Ctcf	CCCTC-binding factor	-0.168971361	0.933412549	Ctcf	1.001382223	13018
13121	94916_at	Cyp51	cytochrome P450, family 51	0.07290756	0.958487806	Cyp51	1.898193503	13121
13167	97248_at	Dbi	diazepam binding inhibitor	0.630681844	0.132636582	Dbi	1.063999429	13167
13196	161139_f_at	Asap1	ArfGAP with SH3 domain, ankyrin repeat and PH domain1	0.100611446	NA	Asap1	1.090829939	13196
13196	100513_at	Asap1	ArfGAP with SH3 domain, ankyrin repeat and PH domain1	0.266250208	0.720615765	Asap1	1.090829939	13196
13204	160572_at	Dhx15	DEAH (Asp-Glu-Ala-His) box polypeptide 15	0.079232236	NA	Dhx15	1.146759588	13204
13209	93964_s_at	Ddx6	DEAD (Asp-Glu-Ala-Asp) box polypeptide 6	-0.531679375	0.447138728	Ddx6	1.19810301	13209
13209	96731_at	Ddx6	DEAD (Asp-Glu-Ala-Asp) box polypeptide 6	-0.229967301	0.908037691	Ddx6	1.19810301	13209
13209	93965_r_at	Ddx6	DEAD (Asp-Glu-Ala-Asp) box polypeptide 6	-0.627122452	0.342106894	Ddx6	1.19810301	13209
13211	103598_at	Dhx9	DEAH (Asp-Glu-Ala-His) box polypeptide 9	-0.024372615	0.984096154	Dhx9	1.285534158	13211
13361	104547_at	Dhfr	dihydrofolate reductase	0.235993532	NA	Dhfr	2.258112428	13361
13433	161601_i_at	Dnm1t	DNA methyltransferase (cytosine-5) 1	0.089149834	NA	Dnm1t	2.067468446	13433
13433	101445_at	Dnm1t	DNA methyltransferase (cytosine-5) 1	0.334693152	0.659831394	Dnm1t	2.067468446	13433
13478	161420_r_at	Dpagt1	dolichyl-phosphate (UDP-N-acetylglucosamine) acetylglucosa	-0.130029438	NA	Dpagt1	1.606739402	13478
13478	103352_at	Dpagt1	dolichyl-phosphate (UDP-N-acetylglucosamine) acetylglucosa	0.198262378	0.919069158	Dpagt1	1.606739402	13478
13557	93405_at	E2f3	E2F transcription factor 3	-0.004705193	NA	E2f3	1.120280794	13557
13605	97411_at	Ect2	ect2 oncogene	1.171580099	0.16271395	Ect2	2.480426695	13605
13669	94250_at	Eif3a	eukaryotic translation initiation factor 3, subunit A	-0.050922195	0.972911278	Eif3a	1.430787394	13669
13690	100535_at	Eif4g2	eukaryotic translation initiation factor 4, gamma 2	-0.804948819	0.38587807	Eif4g2	1.074995726	13690
13877	94040_at	Erh	enhancer of rudimentary homolog (Drosophila)	0.726093384	0.273152081	Erh	1.13953689	13877
14004	96906_at	NA	NA	0.096768625	NA	Chchd2	1.227664542	14004
14056	99917_at	Ezh2	enhancer of zeste homolog 2 (Drosophila)	0.802045779	0.370090862	Ezh2	2.410454496	14056
14104	98755_at	Fasn	fatty acid synthase	-0.349000081	0.503639278	Fasn	1.505185285	14104
14113	160503_at	NA	NA	-0.61728777	0.221400252	Fbl	1.059584167	14113
14137	97518_at	Fdft1	farnesyl diphosphate farnesyl transferase 1	0.121179286	NA	Fdft1	1.405810581	14137
14194	99148_at	Fh1	fumarate hydratase 1	-0.170547776	0.894733333	Fh1	1.363944527	14194
14211	97421_at	Smc2	structural maintenance of chromosomes 2	0.667833428	0.771669439	Smc2	2.383032203	14211
14297	101407_at	Fxn	frataxin	0.202996897	0.847556094	Fxn	1.204354562	14297
14433	162176_r_at	NA	NA	0.057264644	0.967251179	Gapdh	1.546355963	14433
14433	101214_f_at	NA	NA	0.911418536	0.09676985	Gapdh	1.546355963	14433
14569	160114_at	Gdi2	guanosine diphosphate (GDP) dissociation inhibitor 2	0.072850008	0.972911278	Gdi2	1.351013032	14569
14635	97820_at	Galk1	galactokinase 1	-0.225401181	NA	Galk1	1.137162082	14635
14688	94854_g_at	Gnb1	guanine nucleotide binding protein (G protein), beta 1	0.409334412	0.563361502	Gnb1	1.339791709	14688
14688	94853_at	Gnb1	guanine nucleotide binding protein (G protein), beta 1	0.497135143	0.316467684	Gnb1	1.339791709	14688
14688	97458_at	Gnb1	guanine nucleotide binding protein (G protein), beta 1	0.023824589	0.985435386	Gnb1	1.339791709	14688
14718	93489_at	Got1	glutamate oxaloacetate transaminase 1, soluble	0.074065594	NA	Got1	1.333967608	14718
14719	161995_r_at	Got2	glutamate oxaloacetate transaminase 2, mitochondrial	0.062804411	0.967251179	Got2	1.418816728	14719
14719	93355_at	Got2	glutamate oxaloacetate transaminase 2, mitochondrial	0.206406336	0.859532969	Got2	1.418816728	14719
14751	100573_f_at	Gpi1	glucose phosphate isomerase 1	0.222724341	0.873017376	Gpi1	1.264516078	14751
14751	161524_r_at	Gpi1	glucose phosphate isomerase 1	0.046096767	NA	Gpi1	1.264516078	14751
14751	100574_f_at	Gpi1	glucose phosphate isomerase 1	0.115962663	0.949899324	Gpi1	1.264516078	14751
14793	94217_f_at	Cdca3	cell division cycle associated 3	0.633376104	0.21706584	Cdca3	1.057861616	14793
14827	101060_at	Pdia3	protein disulfide isomerase associated 3	0.600389024	0.590669526	Pdia3	1.527236883	14827
14841	99522_at	Gsg2	germ cell-specific gene 2	0.694061558	NA	Gsg2	2.555834015	14841
14852	93727_at	Gspt1	G1 to S phase transition 1	-0.346082518	0.743163101	Gspt1	1.204265175	14852
14940	161834_at	Gzmc	granzyme C	0.050177353	NA	Gzmc	3.074034501	14940
14940	102733_at	Gzmc	granzyme C	0.348257679	0.495628169	Gzmc	3.074034501	14940
15161	100900_at	Hcfct1	host cell factor C1	0.297268205	0.649419619	Hcfct1	1.347844215	15161
15161	100901_at	Hcfct1	host cell factor C1	0.075150773	NA	Hcfct1	1.347844215	15161
15163	99461_at	Hcls1	hematopoietic cell specific Lyn substrate 1	0.575341702	0.343082994	Hcls1	1.000535007	15163
15182	160643_at	Hdac2	histone deacetylase 2	-0.811900043	0.0674633	Hdac2	1.580273902	15182
15201	93228_at	Hells	helicase, lymphoid specific	0.293370021	NA	Hells	2.080912686	15201
15251	98629_f_at	Hif1a	hypoxia inducible factor 1, alpha subunit	-0.058798508	0.977217119	Hif1a	1.735493613	15251
15251	98628_f_at	Hif1a	hypoxia inducible factor 1, alpha subunit	-0.195121064	0.933412549	Hif1a	1.735493613	15251
15257	103262_at	Hipk1	homeodomain interacting protein kinase 1	0.155797593	NA	Hipk1	1.19534705	15257
15270	93019_at	H2afx	H2A histone family, member X	0.449056562	0.69618428	H2afx	2.427629782	15270
15357	104285_at	Hmgcr	3-hydroxy-3-methylglutaryl-Coenzyme A reductase	-0.252979714	0.894687083	Hmgcr	1.520513407	15357
15357	99425_at	Hmgcr	3-hydroxy-3-methylglutaryl-Coenzyme A reductase	-0.288271998	NA	Hmgcr	1.520513407	15357
15384	94896_at	Hnrnpab	heterogeneous nuclear ribonucleoprotein A/B	-0.178087638	0.890457259	Hnrnpab	1.848642356	15384
15510	161140_r_at	Hspd1	heat shock protein 1 (chaperonin)	0.174071455	0.907781441	Hspd1	1.145661608	15510
15510	93277_at	Hspd1	heat shock protein 1 (chaperonin)	-0.502088241	0.344739799	Hspd1	1.145661608	15510
15516	161761_r_at	Hsp90ab1	heat shock protein 90 alpha (cytosolic), class B member 1	0.281773057	0.802738209	Hsp90ab1	1.383934074	15516

15516	95359_at	Hsp90ab1	heat shock protein 90 alpha (cytosolic), class B member 1	-0.443276883	0.416203521	Hsp90ab1	1.383934074	15516
15519	95282_at	Hsp90aa1	heat shock protein 90, alpha (cytosolic), class A member 1	-0.409418134	0.541071112	Hsp90aa1	1.857612493	15519
15519	161869_i_at	Hsp90aa1	heat shock protein 90, alpha (cytosolic), class A member 1	0.148269944	NA	Hsp90aa1	1.857612493	15519
15525	100353_g_at	Hspa4	heat shock protein 4	-0.00180503	0.999646575	Hspa4	1.302005589	15525
15525	96594_at	Hspa4	heat shock protein 4	-0.23560021	NA	Hspa4	1.302005589	15525
15525	100352_at	Hspa4	heat shock protein 4	0.021664214	NA	Hspa4	1.302005589	15525
15525	92571_at	Hspa4	heat shock protein 4	-0.510023247	0.799778045	Hspa4	1.302005589	15525
15525	161745_f_at	Hspa4	heat shock protein 4	-0.070448541	NA	Hspa4	1.302005589	15525
15526	97914_at	Hspa9	heat shock protein 9	-1.677976059	0.036423451	Hspa9	1.2903066812	15526
15925	162160_at	Ide	insulin degrading enzyme	0.232701251	0.782734072	Ide	1.785111678	15925
15925	94380_at	Ide	insulin degrading enzyme	0.54560362	0.431781277	Ide	1.785111678	15925
15925	160290_at	Ide	insulin degrading enzyme	0.554002827	0.429647297	Ide	1.785111678	15925
15979	100552_at	Ifngr1	interferon gamma receptor 1	0.568492795	0.479384672	Ifngr1	1.343305268	15979
16145	160933_at	Igtg	interferon gamma induced GTPase	-0.153604367	0.908363662	Igtg	1.326585882	16145
16161	98240_at	Il12rb1	interleukin 12 receptor, beta 1	0.527051721	0.320979002	Il12rb1	1.202551275	16161
16161	162408_f_at	Il12rb1	interleukin 12 receptor, beta 1	0.404560526	0.451494847	Il12rb1	1.202551275	16161
16162	99323_at	Il12rb2	interleukin 12 receptor, beta 2	0.525959163	0.293908761	Il12rb2	3.04663077	16162
16184	101917_at	Il2ra	interleukin 2 receptor, alpha chain	0.21121351	NA	Il2ra	3.973609887	16184
16185	100764_at	Il2rb	interleukin 2 receptor, beta chain	0.186910835	0.923825429	Il2rb	1.67510492	16185
16211	93111_at	Kpnb1	karyopherin (importin) beta 1	-1.007224773	0.164479691	Kpnb1	1.691541402	16211
16211	161936_at	Kpnb1	karyopherin (importin) beta 1	0.023938163	NA	Kpnb1	1.691541402	16211
16319	104468_at	Incepn	inner centromere protein	0.053228298	0.973795497	Incepn	1.066851275	16319
16319	93758_at	Incepn	inner centromere protein	0.336699584	0.680281942	Incepn	1.066851275	16319
16364	92737_at	Irf4	interferon regulatory factor 4	0.689458838	0.432797556	Irf4	2.07791664	16364
16423	95020_at	Cd47	CD47 antigen (Rh-related antigen, integrin-associated signal	0.186635304	0.929772549	Cd47	1.199844882	16423
16423	103611_at	Cd47	CD47 antigen (Rh-related antigen, integrin-associated signal	-0.091206605	0.965542009	Cd47	1.199844882	16423
16430	161285_r_at	Stt3a	STT3, subunit of the oligosaccharyltransferase complex, hom	0.104573735	NA	Stt3a	1.502848804	16430
16430	98922_at	Stt3a	STT3, subunit of the oligosaccharyltransferase complex, hom	-0.07323372	0.958912883	Stt3a	1.502848804	16430
16551	99541_at	Kif11	kinesin family member 11	1.041397658	0.110118574	Kif11	3.888518638	16551
16571	104644_at	Kif4	kinesin family member 4	0.58750845	0.373899002	Kif4	2.694669867	16571
16573	160417_at	Kif5b	kinesin family member 5B	-0.007705804	0.999145614	Kif5b	1.223881849	16573
16646	101370_at	Kpna1	karyopherin (importin) alpha 1	0.059668706	0.974723784	Kpna1	1.02767307	16646
16647	92790_at	Kpna2	karyopherin (importin) alpha 2	0.90835194	0.388445777	Kpna2	2.666602283	16647
16835	160832_at	Ldlr	low density lipoprotein receptor	-0.45205972	0.435770844	Ldlr	1.34994053	16835
16881	162004_i_at	Lig1	ligase I, DNA, ATP-dependent	-0.357361061	0.649419619	Lig1	2.490524041	16881
16881	92551_at	Lig1	ligase I, DNA, ATP-dependent	0.467975815	0.315789471	Lig1	2.490524041	16881
16906	160517_at	Lmnb1	lamin B1	0.526418706	0.371818668	Lmnb1	1.101521218	16906
170439	94418_at	Elov6	ELOVL family member 6, elongation of long chain fatty acids	-0.447189199	0.386241725	Elov6	1.133909238	170439
170439	103665_at	Elov6	ELOVL family member 6, elongation of long chain fatty acids	-0.529796747	0.312748346	Elov6	1.133909238	170439
170942	98525_f_at	Erd1	erythroid differentiation regulator 1	-1.167302122	0.228047291	Erd1	1.289405929	170942
17164	95721_at	Mapkapk2	MAP kinase-activated protein kinase 2	0.129564812	0.932157866	Mapkapk2	1.308156656	17164
17164	160353_i_at	Mapkapk2	MAP kinase-activated protein kinase 2	0.256955947	NA	Mapkapk2	1.308156656	17164
17193	103285_at	Mbd4	methyl-CpG binding domain protein 4	0.081653304	0.958912883	Mbd4	1.024583637	17193
17215	160496_s_at	Mcm3	minichromosome maintenance deficient 3 (S. cerevisiae)	0.441267382	0.584107937	Mcm3	3.242458641	17215
17215	100062_at	Mcm3	minichromosome maintenance deficient 3 (S. cerevisiae)	0.499617979	0.761892456	Mcm3	3.242458641	17215
17216	93112_at	Mcm2	minichromosome maintenance deficient 2 mitotin (S. cerevi	0.312714654	0.697648235	Mcm2	2.084229369	17216
17217	93041_at	Mcm4	minichromosome maintenance deficient 4 homolog (S. cerev	0.394903006	0.67426874	Mcm4	2.494924062	17217
17218	162102_r_at	Mcm5	minichromosome maintenance deficient 5, cell division cycle	0.044414424	0.973050659	Mcm5	2.605195427	17218
17218	100156_at	Mcm5	minichromosome maintenance deficient 5, cell division cycle	0.508275737	0.556285218	Mcm5	2.605195427	17218
17219	100149_at	Mcm6	minichromosome maintenance deficient 6 (MIS5 homolog, S	0.089153178	NA	Mcm6	2.861088678	17219
17222	99068_at	Anapc1	anaphase promoting complex subunit 1	-0.397977957	0.578289578	Anapc1	1.061969633	17222
17222	101377_at	Anapc1	anaphase promoting complex subunit 1	-0.107052764	NA	Anapc1	1.061969633	17222
17319	94849_at	Mif	macrophage migration inhibitory factor	-0.11369101	NA	Mif	1.710346351	17319
17319	94848_at	Mif	macrophage migration inhibitory factor	0.087861499	0.950433011	Mif	1.710346351	17319
17345	161931_r_at	Mki67	antigen identified by monoclonal antibody Ki 67	0.204903705	0.903216908	Mki67	5.483057145	17345
17345	99457_at	Mki67	antigen identified by monoclonal antibody Ki 67	2.452735424	0.061600569	Mki67	5.483057145	17345
17448	93991_at	Mdh2	malate dehydrogenase 2, NAD (mitochondrial)	0.073700484	0.960669676	Mdh2	1.220584733	17448
17449	97508_at	Mdh1	malate dehydrogenase 1, NAD (soluble)	0.091396125	NA	Mdh1	1.068515669	17449
17463	103350_at	Psm17	proteasome (prosome, macropain) 26S subunit, non-ATPase	-0.139372738	0.941382	Psm17	1.422732406	17463
17535	94376_s_at	Mre11a	meiotic recombination 11 homolog A (S. cerevisiae)	0.125806345	NA	Mre11a	1.226006492	17535
17688	93299_at	Msh6	mutS homolog 6 (E. coli)	-0.216490528	NA	Msh6	1.778063871	17688
17713	104057_at	Grpel1	GrpE-like 1, mitochondrial	0.092566509	0.948613495	Grpel1	1.143027305	17713
17768	161478_at	Mthfd2	methylene tetrahydrofolate dehydrogenase (NAD+ dependen	0.081617904	0.953391829	Mthfd2	1.272063684	17768
17768	100046_at	Mthfd2	methylene tetrahydrofolate dehydrogenase (NAD+ dependen	-0.009882249	0.995618995	Mthfd2	1.272063684	17768
17865	100023_at	Mybl2	myeloblastosis oncogene-like 2	0.203513707	0.844536943	Mybl2	1.335589459	17865
17865	161160_f_at	Mybl2	myeloblastosis oncogene-like 2	0.067287205	NA	Mybl2	1.335589459	17865
17975	100144_at	Ncl	nucleolin	-0.421029822	0.747282067	Ncl	1.314916636	17975
18005	100885_at	Nck2	NIMA (never in mitosis gene a)-related expressed kinase 2	0.373379828	0.638987683	Nck2	1.062074412	18005
18021	97975_at	Nfatc3	nuclear factor of activated T cells, cytoplasmic, calcineurin de	0.655562043	0.290924416	Nfatc3	1.155258262	18021

18021	102050_at	Nfate3	nuclear factor of activated T cells, cytoplasmic, calcineurin de	-0.033691185	0.979027229	Nfate3	1.155258262	18021
18102	161161_r_at	Nme1	NME/NM23 nucleoside diphosphate kinase 1	-0.014514428	NA	Nme1	1.599261828	18102
18102	92794_f_at	Nme1	NME/NM23 nucleoside diphosphate kinase 1	-0.364083235	0.680256771	Nme1	1.599261828	18102
18107	102047_at	Nmt1	N-myristoyltransferase 1	0.229618536	0.91966012	Nmt1	1.352234655	18107
18107	102980_at	Nmt1	N-myristoyltransferase 1	-0.0550821	NA	Nmt1	1.352234655	18107
18114	98604_at	Rrp1	ribosomal RNA processing 1 homolog (S. cerevisiae)	-0.322194514	0.888829681	Rrp1	1.207628701	18114
18120	94283_at	Mrpl49	mitochondrial ribosomal protein L49	-0.068037208	0.960669676	Mrpl49	1.225433754	18120
18120	161597_r_at	Mrpl49	mitochondrial ribosomal protein L49	-0.04659323	NA	Mrpl49	1.225433754	18120
18140	99564_at	Uhrf1	ubiquitin-like, containing PHD and RING finger domains, 1	0.340824136	0.739233638	Uhrf1	2.634870671	18140
18221	101033_at	Nude	nuclear distribution gene C homolog (Aspergillus)	-0.001142691	NA	Nude	1.22011914	18221
18263	160084_at	Odc1	ornithine decarboxylase, structural 1	-0.079516326	0.963254904	Odc1	1.759061787	18263
18392	92458_at	Orc1	origin recognition complex, subunit 1	0.034295953	NA	Orc1	1.430958392	18392
18453	161926_r_at	P4hb	prolyl 4-hydroxylase, beta polypeptide	0.106492453	0.941356083	P4hb	1.044441746	18453
18453	93108_at	P4hb	prolyl 4-hydroxylase, beta polypeptide	-0.272074794	0.684296515	P4hb	1.044441746	18453
18458	100720_at	Pabpc1	poly(A) binding protein, cytoplasmic 1	-0.26909021	0.853552709	Pabpc1	1.412771833	18458
18521	92621_at	Pcbp2	poly(rC) binding protein 2	-0.194407232	0.913958079	Pcbp2	1.251685725	18521
18538	101065_at	Pcna	proliferating cell nuclear antigen	0.101258869	0.963254904	Pcna	2.119163592	18538
18571	96252_at	Pded61p	programmed cell death 6 interacting protein	-0.155989949	0.932004521	Pded61p	1.012323889	18571
18571	95040_at	Pded61p	programmed cell death 6 interacting protein	-0.029349617	0.980325583	Pded61p	1.012323889	18571
18648	160091_at	Pgam1	phosphoglycerate mutase 1	0.166769844	NA	Pgam1	1.59496517	18648
18655	93346_at	Pgk1	phosphoglycerate kinase 1	-0.014302157	0.998186991	Pgk1	2.259811462	18655
18746	162032_f_at	Pkm	pyruvate kinase, muscle	0.161146343	0.903233646	Pkm	1.843374575	18746
18746	96066_s_at	Pkm	pyruvate kinase, muscle	0.259559086	0.877324261	Pkm	1.843374575	18746
18750	102299_at	Prkca	protein kinase C, alpha	0.479762554	0.665549153	Prkca	1.388512469	18750
18786	94825_at	Plaa	phospholipase A2, activating protein	0.143410878	NA	Plaa	1.582174187	18786
18786	160169_at	Plaa	phospholipase A2, activating protein	0.229886685	0.92948193	Plaa	1.582174187	18786
18813	100125_at	Pa2g4	proliferation-associated 2G4	-0.291555514	0.636309277	Pa2g4	1.815877209	18813
18813	16212_r_at	Pa2g4	proliferation-associated 2G4	0.007350278	NA	Pa2g4	1.815877209	18813
18817	93099_f_at	Plk1	polo-like kinase 1	0.565956247	0.235104212	Plk1	3.422735439	18817
18817	101350_g_at	Plk1	polo-like kinase 1	0.259158122	NA	Plk1	3.422735439	18817
18817	161292_f_at	Plk1	polo-like kinase 1	0.243609098	NA	Plk1	3.422735439	18817
18824	93323_at	Plp2	proteolipid protein 2	0.577569068	0.356557829	Plp2	2.164230635	18824
18854	99015_at	Pml	promyelocytic leukemia	-0.117985665	NA	Pml	1.028150071	18854
18938	160078_at	Ppp1r14b	protein phosphatase 1, regulatory (inhibitor) subunit 14B	-0.486329999	0.405250946	Ppp1r14b	1.280601395	18938
18950	93290_at	Pnp	purine-nucleoside phosphorylase	0.525060794	0.552748747	Pnp	1.60655051	18950
18968	103207_at	Pola1	polymerase (DNA directed), alpha 1	0.859022836	0.308532112	Pola1	2.022330606	18968
18969	161739_r_at	Pola2	polymerase (DNA directed), alpha 2	-0.0157112	0.989611027	Pola2	1.629025242	18969
18969	98006_at	Pola2	polymerase (DNA directed), alpha 2	-0.127689815	NA	Pola2	1.629025242	18969
18972	98155_r_at	Pold2	polymerase (DNA directed), delta 2, regulatory subunit	0.04833898	0.973497364	Pold2	1.124254741	18972
18974	101920_at	Pole2	polymerase (DNA directed), epsilon 2 (p59 subunit)	-0.018409721	0.986969008	Pole2	1.546811357	18974
19053	101101_at	Ppp2cb	protein phosphatase 2 (formerly 2A), catalytic subunit, beta i	0.473854426	0.769083888	Ppp2cb	1.180649838	19053
19057	160948_at	Ppp3cc	protein phosphatase 3, catalytic subunit, gamma isoform	0.587758259	0.340198522	Ppp3cc	1.089208957	19057
19072	161459_f_at	Prep	prolyl endopeptidase	0.00388005	NA	Prep	1.008975759	19072
19072	100983_at	Prep	prolyl endopeptidase	0.203300449	NA	Prep	1.008975759	19072
19075	96772_at	Prim1	DNA primase, p49 subunit	0.23581612	NA	Prim1	2.67217247	19075
19076	95549_at	Prim2	DNA primase, p58 subunit	0.283610462	NA	Prim2	1.491442853	19076
19172	98556_at	Psbm4	proteasome (prosome, macropain) subunit, beta type 4	-0.061148234	NA	Psbm4	1.005868541	19172
19172	98558_r_at	Psbm4	proteasome (prosome, macropain) subunit, beta type 4	0.077447704	NA	Psbm4	1.005868541	19172
19172	98557_f_at	Psbm4	proteasome (prosome, macropain) subunit, beta type 4	-0.102398691	0.9628001	Psbm4	1.005868541	19172
19177	94263_f_at	Psbm7	proteasome (prosome, macropain) subunit, beta type 7	0.14980048	0.940766699	Psbm7	1.046320852	19177
19179	160152_at	Psmc1	protease (prosome, macropain) 26S subunit, ATPase 1	0.416428639	0.48537263	Psmc1	1.359055644	19179
19192	93803_at	Psmc3	protease (prosome, macropain) activator subunit 3 (PA2	-0.0357688	0.982632525	Psmc3	1.138045245	19192
192159	98574_at	Prpf8	pre-mRNA processing factor 8	0.019438059	0.987691962	Prpf8	1.029608421	192159
19231	100718_at	NA	NA	-0.343254546	0.745248249	Ptma	1.081307645	19231
192662	96360_at	Arhgd1a	Rho GDP dissociation inhibitor (GDI) alpha	0.263615625	0.799778045	Arhgd1a	1.237640709	192662
19324	92883_at	NA	NA	0.050707325	NA	Rab1a	1.751194707	19324
19324	92882_at	Rab1	RAB1, member RAS oncogene family	0.310238038	0.870655202	Rab1a	1.751194707	19324
19325	101933_at	Rab10	RAB10, member RAS oncogene family	-0.026818578	0.981235527	Rab10	1.32139105	19325
19325	160149_at	Rab10	RAB10, member RAS oncogene family	-0.52535882	0.592270539	Rab10	1.32139105	19325
19348	160501_at	Kif20a	kinesin family member 20A	0.799090052	NA	Kif20a	2.714459652	19348
19348	161856_f_at	Kif20a	kinesin family member 20A	0.529746689	0.304185849	Kif20a	2.714459652	19348
19353	101555_at	Rac1	RAS-related C3 botulinum substrate 1	0.054221316	0.975981246	Rac1	1.366469348	19353
19354	103579_at	Rac2	RAS-related C3 botulinum substrate 2	0.686724958	0.119108758	Rac2	1.040539963	19354
19357	94768_at	Rad21	RAD21 homolog (S. pombe)	0.360537977	0.901544291	Rad21	1.310375927	19357
19359	96102_i_at	Rad23b	RAD23b homolog (S. cerevisiae)	-0.413503051	0.517085939	Rad23b	1.10182133	19359
19359	96103_f_at	Rad23b	RAD23b homolog (S. cerevisiae)	-0.210636269	0.842472769	Rad23b	1.10182133	19359
19360	100459_at	Rad50	RAD50 homolog (S. cerevisiae)	-0.157238962	0.907781441	Rad50	1.463946251	19360
19361	162232_r_at	Rad51	RAD51 homolog	0.100512743	NA	Rad51	2.658762583	19361
19361	104527_at	Rad51	RAD51 homolog	0.30237106	0.668659124	Rad51	2.658762583	19361

19362	93676_at	Rad51ap1	RAD51 associated protein 1	0.060086775	NA	Rad51ap1	1.433335037	19362
19366	98971_at	Rad541	RAD54 like (S. cerevisiae)	-0.077893842	NA	Rad541	1.093158796	19366
19384	101254_at	NA	NA	-0.04381276	0.980325583	Ran	1.011709203	19384
19384	102821_s_at	NA	NA	0.304718491	0.849957674	Ran	1.011709203	19384
19385	98573_r_at	Ranbp1	RAN binding protein 1	-0.106275829	0.941382	Ranbp1	1.332640028	19385
19645	161858_f_at	Rb1	retinoblastoma 1	0.347267059	NA	Rb1	1.656967609	19645
19645	97948_at	Rb1	retinoblastoma 1	0.453078795	0.806914456	Rb1	1.656967609	19645
19647	99364_at	Rbbp6	retinoblastoma binding protein 6	-0.211039551	NA	Rbbp6	1.070051925	19647
19647	99990_at	Rbbp6	retinoblastoma binding protein 6	-0.385419188	0.511867765	Rbbp6	1.070051925	19647
19647	161760_s_at	Rbbp6	retinoblastoma binding protein 6	-0.406470469	NA	Rbbp6	1.070051925	19647
19650	104476_at	Rbl1	retinoblastoma-like 1 (p107)	-0.046887937	0.980325583	Rbl1	1.25417249	19650
19687	98335_at	Rfc1	replication factor C (activator 1) 1	-0.728957024	0.399788483	Rfc1	1.27144758	19687
19687	98336_s_at	Rfc1	replication factor C (activator 1) 1	-0.232370701	NA	Rfc1	1.27144758	19687
19691	160741_at	Recq1	RecQ protein-like	0.079875374	0.956178166	Recq1	1.113992793	19691
19707	160888_at	Reps1	RalBP1 associated Eps domain containing protein	0.271545913	NA	Reps1	1.038340505	19707
19826	93518_at	Rnps1	ribonucleic acid binding protein S1	0.071752393	NA	Rnps1	1.124314372	19826
19891	98943_at	Rpa2	replication protein A2	1.128355144	0.061600569	Rpa2	1.260271359	19891
20020	103054_at	Polr2a	polymerase (RNA) II (DNA directed) polypeptide A	0.154667167	0.921673836	Polr2a	1.158432052	20020
20020	103055_r_at	Polr2a	polymerase (RNA) II (DNA directed) polypeptide A	0.125768304	0.943019651	Polr2a	1.158432052	20020
20133	100612_at	Rrm1	ribonucleotide reductase M1	0.655207473	0.269833362	Rrm1	2.729250833	20133
20133	161731_at	Rrm1	ribonucleotide reductase M1	-0.013321473	NA	Rrm1	2.729250833	20133
20168	93839_at	Rtn3	reticulon 3	0.154395781	0.918592278	Rtn3	1.677093741	20168
20168	97077_f_at	Rtn3	reticulon 3	0.247059598	0.769375168	Rtn3	1.677093741	20168
20218	101508_at	Khndrbs1	KH domain containing, RNA binding, signal transduction ass	-0.072486837	NA	Khndrbs1	1.045326338	20218
20382	95791_s_at	Srsf2	serine/arginine-rich splicing factor 2	-0.123282895	NA	Srsf2	1.303699413	20382
20382	94017_s_at	Srsf2	serine/arginine-rich splicing factor 2	-0.432684378	0.48537263	Srsf2	1.303699413	20382
20425	104700_at	Shmt1	serine hydroxymethyltransferase 1 (soluble)	0.10931181	NA	Shmt1	1.198735883	20425
20425	98459_at	Shmt1	serine hydroxymethyltransferase 1 (soluble)	-0.163074501	NA	Shmt1	1.198735883	20425
20460	92367_at	Stil	Scl/Tali interrupting locus	0.016714204	NA	Stil	2.928779982	20460
20501	101588_at	Slc16a1	solute carrier family 16 (monocarboxylic acid transporters), t	-0.092506892	NA	Slc16a1	1.190604032	20501
20525	93738_at	Slc2a1	solute carrier family 2 (facilitated glucose transporter), mem	0.2796303	0.659831394	Slc2a1	1.169877023	20525
20539	104221_at	Skl7a5	solute carrier family 7 (cationic amino acid transporter, y+ s)	-0.168826108	NA	Skl7a5	2.111589017	20539
20557	98299_s_at	NA	NA	0.038630592	NA	Slfm3	1.676844388	20557
20588	102062_at	Smarcc1	SWI/SNF related, matrix associated, actin dependent regula	-0.165214741	0.951334568	Smarcc1	1.884264077	20588
20624	101530_at	Eftud2	elongation factor Tu GTP binding domain containing 2	-0.113621212	0.936430222	Eftud2	1.089564708	20624
207352	103871_at	Sec23ip	Sec23 interacting protein	-0.124126235	0.96281589	Sec23ip	1.276135148	207352
20747	160096_at	Spop	speckle-type POZ protein	-0.428439859	0.512094141	Spop	1.338123576	20747
20768	93557_at	Sephs2	selenophosphate synthetase 2	0.407590355	0.640564166	Sephs2	1.084068575	20768
20775	94322_at	Sqle	squalene epoxidase	-0.155699789	0.908037691	Sqle	1.679188032	20775
20833	95069_at	Ssrp1	structure specific recognition protein 1	-0.235121824	0.86502427	Ssrp1	1.194354057	20833
208715	94325_at	Hmgcs1	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1	-0.193121565	0.950489095	Hmgcs1	1.951430373	208715
20873	98996_at	Plk4	polo-like kinase 4	0.649946597	0.544445665	Plk4	1.409664623	20873
20877	98469_at	Aurkb	aurora kinase B	0.578117529	0.19985694	Aurkb	1.713099174	20877
20878	92639_at	Aurka	aurora kinase A	0.606406083	0.258284165	Aurka	1.34349982	20878
20901	94292_at	Strap	serine/threonine kinase receptor associated protein	-0.140764785	0.956699082	Strap	1.457907648	20901
20973	93586_at	Syngt2	synaptogyrin 2	0.278985778	NA	Syngt2	1.328231945	20973
210998	98013_at	D15Erd621e	DNA segment, Chr 15, ERATO Doi 621, expressed	-0.314471436	0.907781441	Fam91a1	1.384562128	210998
212880	101423_at	Ddx46	DEAD (Asp-Glu-Ala-Asp) box polypeptide 46	0.032470725	NA	Ddx46	1.270276797	212880
21335	97238_at	Taec3	transforming, acidic coiled-coil containing protein 3	1.204956627	NA	Taec3	2.919058347	21335
213742	99126_at	Xist	inactive X specific transcripts	-0.866402208	0.371194649	Xist	5.899143598	213742
213827	94514_s_at	Arcn1	archain 1	0.069535702	0.959127931	Arcn1	1.29683801	213827
213827	94512_f_at	Arcn1	archain 1	-0.057316546	0.967716366	Arcn1	1.29683801	213827
213827	94513_r_at	Arcn1	archain 1	0.272058408	0.842747643	Arcn1	1.29683801	213827
21454	162443_at	Tcp1	t-complex protein 1	0.094168296	NA	Tcp1	1.250350141	21454
21454	94218_at	Tcp1	t-complex protein 1	-0.324938813	0.59888743	Tcp1	1.250350141	21454
215387	161172_f_at	Ncaph	non-SMC condensin I complex, subunit H	0.566286768	NA	Ncaph	2.693022633	215387
215387	95753_at	Ncaph	non-SMC condensin I complex, subunit H	0.795282513	NA	Ncaph	2.693022633	215387
216443	96138_at	Mars	methionine-tRNA synthetase	-0.099593688	NA	Mars	1.340767201	216443
217039	96513_at	Gnbp2	gametogenin binding protein 2	-0.654127091	0.555764277	Gnbp2	1.183854154	217039
217109	161737_at	Utp18	UTP18, small subunit (SSU) processome component, homolo	-0.06013336	NA	Utp18	1.21590846	217109
217109	103056_at	Utp18	UTP18, small subunit (SSU) processome component, homolo	-0.575391069	0.388347454	Utp18	1.21590846	217109
21749	160879_at	Terf1	telomeric repeat binding factor 1	0.141384963	NA	Terf1	1.506393941	21749
21749	99920_at	Terf1	telomeric repeat binding factor 1	0.088602964	NA	Terf1	1.506393941	21749
21762	92645_at	Psm2	proteasome (prosome, macropain) 26S subunit, non-ATPase	-0.12098752	0.936157768	Psm2	1.243694403	21762
217653	103308_at	M18Bbp1	M18 binding protein 1	0.498229405	0.273152081	M18Bbp1	2.625096136	217653
21781	97565_f_at	Tfdp1	transcription factor Dp 1	-0.062456573	NA	Tfdp1	2.15958154	21781
21781	101959_r_at	Tfdp1	transcription factor Dp 1	0.733858071	0.304185849	Tfdp1	2.15958154	21781
21781	101958_f_at	Tfdp1	transcription factor Dp 1	0.35225757	0.831822927	Tfdp1	2.15958154	21781
218236	95488_at	Fam120a	family with sequence similarity 120, member A	-0.162690761	0.953148363	Fam120a	1.641697168	218236

21854	94860_at	Timm17a	translocase of inner mitochondrial membrane 17a	-0.120209174	0.943776547	Timm17a	1.695045795	21854
218973	96625_at	Wdhhd1	WD repeat and HMG-box DNA binding protein 1	0.213891511	0.832148182	Wdhhd1	2.131646093	218973
218977	98489_at	Dlgap5	discs, large (Drosophila) homolog-associated protein 5	0.527513348	0.251906047	Dlgap5	2.409089258	218977
21915	98618_at	Dtymk	deoxythymidylate kinase	-0.0665805	NA	Dtymk	1.486199902	21915
21915	98619_at	Dtymk	deoxythymidylate kinase	-0.321900315	0.756743004	Dtymk	1.486199902	21915
21917	92782_at	Tmpo	thymopoiectin	0.131556246	0.933412549	Tmpo	1.526834652	21917
21917	98982_at	Tmpo	thymopoiectin	0.16742216	0.933412549	Tmpo	1.526834652	21917
21917	92781_at	Tmpo	thymopoiectin	-0.213472585	NA	Tmpo	1.526834652	21917
21936	104662_at	Tnfrsf18	tumor necrosis factor receptor superfamily, member 18	-0.076114189	0.958823314	Tnfrsf18	1.030059325	21936
21991	99566_at	Tpi1	triosephosphate isomerase 1	0.413451964	0.459839668	Tpi1	2.900398391	21991
22019	161537_f_at	Tpp2	tripeptidyl peptidase II	0.204385122	NA	Tpp2	1.361576671	22019
22019	96730_at	Tpp2	tripeptidyl peptidase II	0.224720989	0.929987845	Tpp2	1.361576671	22019
22027	160499_at	Hsp90b1	heat shock protein 90, beta (Grp94), member 1	0.054538337	0.972911278	Hsp90b1	1.171099493	22027
22042	103958_g_at	Tfrc	transferrin receptor	-0.184754229	NA	Tfrc	2.208645152	22042
22042	103957_at	Tfrc	transferrin receptor	-0.186925291	NA	Tfrc	2.208645152	22042
22099	93012_at	Tsn	translin	-0.010827688	NA	Tsn	1.544794618	22099
22137	103201_at	Ttk	Ttk protein kinase	0.671366587	0.162758745	Ttk	1.849799996	22137
22142	100343_f_at	Tuba1a	tubulin, alpha 1A	-0.237576195	0.870655202	Tuba1a	1.451812061	22142
22142	100342_i_at	Tuba1a	tubulin, alpha 1A	-0.379400263	0.63207898	Tuba1a	1.451812061	22142
22143	98759_f_at	NA	NA	-0.25198315	0.83702518	Tuba1b	1.719465391	22143
22146	101543_f_at	NA	NA	-0.170138264	0.921649033	Tuba1c	1.800418001	22146
22154	94788_f_at	Tubb5	tubulin, beta 5 class I	-0.710983038	0.188212457	Tubb5	1.255554106	22154
22154	94789_r_at	Tubb5	tubulin, beta 5 class I	-0.524847839	0.362037601	Tubb5	1.255554106	22154
22166	92807_at	Txn1	thioredoxin 1	1.121258858	0.098908891	Txn1	1.964804071	22166
22171	93237_s_at	NA	NA	0.620603429	0.228047291	Tyms	2.970218053	22171
22171	93236_s_at	NA	NA	0.438316757	0.461041308	Tyms	2.970218053	22171
22172	100396_i_at	Tyms-ps	thymidylate synthase, pseudogene	0.308919493	0.854510563	Tyms-ps	2.382760407	22172
22172	100756_r_at	Tyms-ps	thymidylate synthase, pseudogene	0.082566396	NA	Tyms-ps	2.382760407	22172
22201	92616_at	Uba1	ubiquitin-like modifier activating enzyme 1	0.237803903	0.847556094	Uba1	1.138535042	22201
22201	162497_r_at	Uba1	ubiquitin-like modifier activating enzyme 1	0.155361287	NA	Uba1	1.138535042	22201
22247	161092_at	Umps	uridine monophosphate synthetase	-0.050489009	NA	Umps	1.490298678	22247
22247	101455_at	Umps	uridine monophosphate synthetase	-0.027441582	NA	Umps	1.490298678	22247
22247	162071_i_at	Umps	uridine monophosphate synthetase	0.106401289	0.958141861	Umps	1.490298678	22247
22272	93844_at	Uqcrc	ubiquinol-cytochrome c reductase, complex III subunit VII	0.413515725	0.574815984	Uqcrc	1.068108545	22272
22289	102222_at	Kdm6a	lysine (K)-specific demethylase 6A	-0.479459659	0.630389729	Kdm6a	1.079759987	22289
22333	98139_at	Vdac1	voltage-dependent anion channel 1	-0.044900028	NA	Vdac1	1.019000498	22333
22352	101046_at	Vim	vimentin	-0.054296634	NA	Vim	2.360662396	22352
22367	97393_at	Vrki	vaccinia related kinase 1	-0.25906827	0.739326797	Vrki	1.009689433	22367
223691	96942_at	Eif3l	eukaryotic translation initiation factor 3, subunit L	-0.051355246	0.973497364	Eif3l	1.16526276	223691
223691	162283_r_at	Eif3l	eukaryotic translation initiation factor 3, subunit L	0.11488017	NA	Eif3l	1.16526276	223691
22375	161337_f_at	Wars	tryptophanyl-HRNA synthetase	-0.065132619	NA	Wars	1.110429296	22375
22375	98606_s_at	Wars	tryptophanyl-HRNA synthetase	0.097891611	0.948147955	Wars	1.110429296	22375
22375	98605_at	Wars	tryptophanyl-HRNA synthetase	0.075642666	NA	Wars	1.110429296	22375
22381	100523_r_at	Wbp5	WW domain binding protein 5	0.180815454	0.920351181	Wbp5	1.20529089	22381
22381	100522_s_at	Wbp5	WW domain binding protein 5	0.480532579	0.654186202	Wbp5	1.20529089	22381
22384	97278_at	Eif4h	eukaryotic translation initiation factor 4H	-0.211448052	NA	Eif4h	1.157961489	22384
22385	92381_at	Bazib	bromodomain adjacent to zinc finger domain, 1B	-0.06018789	0.967251179	Bazib	1.068542947	22385
22385	103081_at	Bazib	bromodomain adjacent to zinc finger domain, 1B	-0.178725753	0.907781441	Bazib	1.068542947	22385
22390	101458_at	Wee1	WEE 1 homolog 1 (S. pombe)	0.426710481	0.436143872	Wee1	1.645976783	22390
224088	103667_at	Atp13a3	ATPase type 13A3	-1.035230962	0.416203521	Atp13a3	1.501299324	224088
224088	95978_at	Atp13a3	ATPase type 13A3	0.004792645	0.999646575	Atp13a3	1.501299324	224088
224171	160973_at	C330027Co9	RIKEN cDNA C330027Co9 gene	1.28787392	NA	C330027Co9Rik	2.675957788	224171
224250	160228_at	Cldnd25	chudin 25	0.29078564	0.648637306	Cldnd1	1.185286507	224250
22433	94821_at	Xbp1	X-box binding protein 1	0.73584506	0.392137173	Xbp1	1.596568854	22433
225027	96302_at	Srsf7	serine/arginine-rich splicing factor 7	-1.259340969	0.071777336	Srsf7	1.268525024	225027
225027	160368_at	Srsf7	serine/arginine-rich splicing factor 7	-0.218904257	NA	Srsf7	1.268525024	225027
225363	98608_at	Elfi	eukaryotic translation termination factor 1	-0.160108237	0.933412549	Elfi	1.192430064	225363
225363	161344_r_at	Elfi	eukaryotic translation termination factor 1	0.2068535	0.885279125	Elfi	1.192430064	225363
225363	96754_s_at	Elfi	eukaryotic translation termination factor 1	-0.18538124	0.922432602	Elfi	1.192430064	225363
225363	96755_at	Elfi	eukaryotic translation termination factor 1	-0.135802107	0.9413182	Elfi	1.192430064	225363
225363	160451_at	Elfi	eukaryotic translation termination factor 1	-0.122480376	0.947735767	Elfi	1.192430064	225363
22608	93740_at	Ybx1	Y box protein 1	-0.172045417	0.883750377	Ybx1	1.190597337	22608
22619	103933_at	Siae	sialic acid acetyltransferase	-0.243021604	0.842460519	Siae	1.121513391	22619
22627	160485_r_at	Ywhae	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase act	0.393527836	0.460856628	Ywhae	1.180033598	22627
22629	97535_at	Ywhah	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase act	0.040379823	0.983345921	Ywhah	1.056110435	22629
22632	99020_at	Yy1	YY1 transcription factor	0.059144189	0.967716366	Yy1	1.277966774	22632
22668	161894_r_at	Sfi	splicing factor 1	-0.161401701	0.908037691	Sfi	1.184011555	22668
22668	99567_at	Sfi	splicing factor 1	-0.032818072	NA	Sfi	1.184011555	22668
226757	160130_at	Wdr26	WD repeat domain 26	-0.438658342	0.661077482	Wdr26	1.129932307	226757

226757	104611_at	Wdr26	WD repeat domain 26	0.109351011	NA	Wdr26	1.129932307	226757
226757	104612_g_at	Wdr26	WD repeat domain 26	0.021549846	0.986969008	Wdr26	1.129932307	226757
226757	100297_at	Wdr26	WD repeat domain 26	-0.730833716	0.370090862	Wdr26	1.129932307	226757
22680	92771_at	Zfp207	zinc finger protein 207	0.132331456	0.956699082	Zfp207	1.174350116	22680
22775	101193_at	Ziki	zinc finger protein interacting with K protein 1	0.101349825	NA	Ziki	1.420097278	22775
22779	94630_at	Ikzf2	IKAROS family zinc finger 2	0.084957101	0.951495523	Ikzf2	1.161436249	22779
22785	161230_r_at	Slc30a4	solute carrier family 30 (zinc transporter), member 4	-0.03053653	NA	Slc30a4	1.775569881	22785
22785	95571_at	Slc30a4	solute carrier family 30 (zinc transporter), member 4	-0.279511764	0.654186202	Slc30a4	1.775569881	22785
229700	161002_at	Rbm15	RNA binding motif protein 15	-0.015498289	NA	Rbm15	1.086491557	229700
229841	161586_f_at	Cenpe	centromere protein E	0.103169508	NA	Cenpe	2.046266696	229841
229841	93450_at	Cenpe	centromere protein E	0.270376699	0.806914456	Cenpe	2.046266696	229841
229900	100880_at	Gbp7	guanylate binding protein 7	0.375901357	0.625796006	Gbp7	1.155785138	229900
230075	92615_at	Ndufb6	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 6	0.472750071	0.312877024	Ndufb6	1.205116598	230075
230075	161660_r_at	Ndufb6	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 6	0.156510215	NA	Ndufb6	1.205116598	230075
230257	93829_at	Ptbp3	polypyrimidine tract binding protein 3	-0.086141817	0.958912883	Ptbp3	1.624901321	230257
230484	160234_at	Usp1	ubiquitin specific peptidase 1	-0.136975755	0.970827248	Usp1	1.364089701	230484
230908	160377_at	Tardbp	TAR DNA binding protein	-0.601447219	0.648637306	Tardbp	1.149206413	230908
230908	104324_at	Tardbp	TAR DNA binding protein	-0.564025496	0.48537263	Tardbp	1.149206413	230908
231327	95554_at	Ppat	phosphoribosyl pyrophosphate amidotransferase	-0.056669556	NA	Ppat	1.789123188	231327
231327	95553_at	Ppat	phosphoribosyl pyrophosphate amidotransferase	0.027937608	0.981235527	Ppat	1.789123188	231327
231507	98092_at	Plac8	placenta-specific 8	0.867407097	0.221400252	Plac8	1.176732854	231507
231874	160811_at	Cczi	CCZ1 vacuolar protein trafficking and biogenesis associated	0.222100917	0.834752205	Cczi	1.256588611	231874
232157	95647_f_at	Mobia	MOB kinase activator 1A	0.307473122	0.909550644	Mobia	1.26507021	232157
232157	95648_at	Mobia	MOB kinase activator 1A	0.395251439	0.590669526	Mobia	1.26507021	232157
232341	94003_at	Wnk1	WNK lysine deficient protein kinase 1	-0.707606935	0.229105678	Wnk1	1.690728632	232341
232341	160739_at	Wnk1	WNK lysine deficient protein kinase 1	-0.072205653	NA	Wnk1	1.690728632	232341
232341	161270_i_at	Wnk1	WNK lysine deficient protein kinase 1	-0.33284977	0.927506286	Wnk1	1.690728632	232341
233406	95032_at	Prc1	protein regulator of cytokinesis 1	1.45016868	0.057614821	Prc1	1.949710527	233406
233908	104355_at	Fus	fused in sarcoma	0.12755597	NA	Fus	1.114328169	233908
234594	99512_at	NA	NA	-0.343446008	0.766529632	Cnot1	1.346551043	234594
235442	104653_at	Rab8b	RAB8B, member RAS oncogene family	0.322023255	0.559740452	Rab8b	1.069075277	235442
235559	103071_at	Topbp1	topoisomerase (DNA) II binding protein 1	-0.238790649	0.919069158	Topbp1	1.761921591	235559
236539	162168_r_at	Phgdh	3-phosphoglycerate dehydrogenase	-0.060457685	NA	Phgdh	1.515817016	236539
236900	92810_at	Pdk3	pyruvate dehydrogenase kinase, isoenzyme 3	0.281340562	0.907781441	Pdk3	1.734700177	236900
23834	103821_at	Cdc6	cell division cycle 6	1.254202573	0.119108758	Cdc6	2.133439982	23834
238799	99356_r_at	Tnp01	transporin 1	0.204471799	0.898839757	Tnp01	1.628209155	238799
238799	96762_at	Tnp01	transporin 1	-0.64944601	0.399044045	Tnp01	1.628209155	238799
23918	100578_at	NA	NA	-0.904623827	0.16271395	Impdh2	1.335967066	23918
239528	103994_at	Ag02	argonaute RISC catalytic subunit 2	-0.395850193	0.501503256	Ag02	1.255434045	239528
245688	93081_at	Rbbp7	retinoblastoma binding protein 7	-0.663556449	0.708824368	Rbbp7	1.82792287	245688
245944	102670_at	Vps54	vacuolar protein sorting 54 (yeast)	-0.067958323	0.974723784	Vps54	1.267733941	245944
26413	161583_at	Mapk1	mitogen-activated protein kinase 1	0.209241599	NA	Mapk1	1.233799353	26413
26413	93253_at	Mapk1	mitogen-activated protein kinase 1	0.277711645	0.686277268	Mapk1	1.233799353	26413
26413	93254_at	Mapk1	mitogen-activated protein kinase 1	0.043307481	0.980325583	Mapk1	1.233799353	26413
26440	96892_at	Psm1	proteasome (prosome, macropain) subunit, alpha type 1	0.280359239	0.891333719	Psm1	1.219881204	26440
26442	94841_at	Psm5	proteasome (prosome, macropain) subunit, alpha type 5	0.229191727	0.843301484	Psm5	1.542059162	26442
26445	94219_at	Psmb2	proteasome (prosome, macropain) subunit, beta type 2	0.457201738	0.410937145	Psmb2	1.586199577	26445
266690	97922_at	Cyb5f4	cytochrome b5 reductase 4	0.434906177	0.697100585	Cyb5f4	1.075828948	266690
26754	95460_at	Cops5	COP9 (constitutive photomorphogenic) homolog, subunit 5 (0.018818089	0.993475944	Cops5	1.799521135	26754
268697	160159_at	NA	NA	1.006816184	NA	Cnbn1	3.219249733	268697
26905	94252_at	Eif2s3x	eukaryotic translation initiation factor 2, subunit 3, structura	-0.268916392	0.885562762	Eif2s3x	1.505532927	26905
26909	92244_at	Exo1	exonuclease 1	-0.008935729	NA	Exo1	2.097627235	26909
26943	100151_at	Serinec3	serine incorporator 3	0.062241041	0.967716366	Serinec3	1.570733547	26943
269523	100710_at	Vcp	valosin containing protein	-0.053568473	0.973497364	Vcp	1.433706975	269523
269523	97666_r_at	NA	NA	-0.175570784	NA	Vcp	1.433706975	269523
269523	97665_i_at	NA	NA	-0.16716465	NA	Vcp	1.433706975	269523
269523	161550_r_at	Vcp	valosin containing protein	0.105598244	NA	Vcp	1.433706975	269523
27041	103642_at	G3bp1	GTPase activating protein (SH3 domain) binding protein 1	-0.656108814	0.29067275	G3bp1	1.10907762	27041
27041	102944_at	G3bp1	GTPase activating protein (SH3 domain) binding protein 1	-0.298188194	NA	G3bp1	1.10907762	27041
27053	95133_at	Asns	asparagine synthetase	0.265911077	0.728818272	Asns	1.991624895	27053
27053	161221_f_at	Asns	asparagine synthetase	0.132334246	NA	Asns	1.991624895	27053
27058	101579_at	Srp9	signal recognition particle 9	-0.182973393	0.941382	Srp9	1.077488466	27058
27058	101579_at	Srp9	signal recognition particle 9	-0.182973393	0.941382	Srp9	1.035993143	27058
27214	160687_r_at	Dbf4	DBF4 homolog (S. cerevisiae)	0.08209952	NA	Dbf4	1.319666461	27214
27221	95527_at	Chaf1a	chromatin assembly factor 1, subunit A (p150)	0.226842423	0.808982714	Chaf1a	1.069978183	27221
27251	98932_at	NA	NA	0.117346008	NA	Gins2	1.264923836	27251
27354	103805_at	Nbn	nibrin	-0.001259104	NA	Nbn	1.182650766	27354
27407	102010_at	Abcf2	ATP-binding cassette, sub-family F (GCN20), member 2	0.102658402	NA	Abcf2	1.271782706	27407
27407	93845_at	Abcf2	ATP-binding cassette, sub-family F (GCN20), member 2	-0.069476458	NA	Abcf2	1.271782706	27407

27670	95697_at	Eif5a	eukaryotic translation initiation factor 5A	-0.138637167	NA	Eif5a	1.387435929	27670
28030	160226_at	Gfm1	G elongation factor, mitochondrial 1	-0.011652228	NA	Gfm1	1.533804187	28030
28035	161242_f_at	Usp39	ubiquitin specific peptidase 39	0.038344639	NA	Usp39	1.72141448	28035
28035	96646_at	Usp39	ubiquitin specific peptidase 39	0.027190312	NA	Usp39	1.72141448	28035
28036	161426_at	Larp7	La ribonucleoprotein domain family, member 7	-0.066430143	NA	Larp7	1.074238082	28036
28036	98016_at	Larp7	La ribonucleoprotein domain family, member 7	0.109537547	NA	Larp7	1.074238082	28036
28036	100410_at	Larp7	La ribonucleoprotein domain family, member 7	0.245774937	0.813286604	Larp7	1.074238082	28036
28114	94451_at	Nsun2	NOL1/NOP2/Sun domain family member 2	-0.493204933	0.366926176	Nsun2	1.360243535	28114
28114	94450_at	Nsun2	NOL1/NOP2/Sun domain family member 2	-0.551328318	0.568775091	Nsun2	1.360243535	28114
28114	161805_r_at	Nsun2	NOL1/NOP2/Sun domain family member 2	-0.055380131	NA	Nsun2	1.360243535	28114
28114	94452_g_at	Nsun2	NOL1/NOP2/Sun domain family member 2	-1.014168598	0.281857146	Nsun2	1.360243535	28114
28185	95432_f_at	Tomm70a	translocase of outer mitochondrial membrane 70 homolog A	-0.60692593	0.754879921	Tomm70a	1.737086904	28185
28185	95431_at	Tomm70a	translocase of outer mitochondrial membrane 70 homolog A	0.039916058	NA	Tomm70a	1.737086904	28185
29870	103270_at	Gtse1	G two S phase expressed protein 1	0.29114708	0.67887747	Gtse1	1.571354537	29870
29876	94255_g_at	Clic4	chloride intracellular channel 4 (mitochondrial)	0.812579933	0.552748747	Clic4	1.784453923	29876
29876	94254_at	Clic4	chloride intracellular channel 4 (mitochondrial)	0.587773734	0.24742356	Clic4	1.784453923	29876
29876	94256_at	Clic4	chloride intracellular channel 4 (mitochondrial)	0.85154665	0.175108671	Clic4	1.784453923	29876
30954	97828_at	Siva1	SIVA1, apoptosis-inducing factor	0.245456387	0.792496552	Siva1	2.048902687	30954
319177	93889_f_at	Histh2ba	histone cluster 1, H2ba	0.201419477	NA	Histh2ba	1.578575813	319177
319178	101654_at	Histh2bb	histone cluster 1, H2bb	-0.096346747	0.948147955	Histh2bb	2.268257921	319178
319188	161394_f_at	Histh2bp	histone cluster 1, H2bp	0.192247848	NA	Histh2bp	1.30583652	319188
319188	16219_r_at	Histh2bp	histone cluster 1, H2bp	0.148723003	0.933412549	Histh2bp	1.30583652	319188
319188	93834_at	Histh2bp	histone cluster 1, H2bp	0.150202682	0.908037691	Histh2bp	1.30583652	319188
319189	94638_at	Histh2bbb	histone cluster 2, H2bbb	0.056250315	NA	Histh2bbb	2.044963692	319189
320938	96674_at	Tpox3	transportin 3	-0.078446297	0.955241998	Tpox3	1.100520067	320938
353172	93270_at	Gars	glycyl-tRNA synthetase	0.490542181	0.73416326	Gars	1.748074826	353172
433256	97456_at	AcsL5	acyl-CoA synthetase long-chain family member 5	0.257492685	0.844536943	AcsL5	1.318860091	433256
50995	96701_at	Uba2	ubiquitin-like modifier activating enzyme 2	-0.225445909	0.894733333	Uba2	1.132070484	50995
51788	101954_at	H2afz	H2A histone family, member Z	0.148689496	0.119419038	H2afz	1.695302703	51788
51797	103341_at	Ctps	cytidine 5'-triphosphate synthase	-0.587526212	0.195658336	Ctps	1.222644202	51797
51810	160316_at	Al503316	expressed sequence Al503316	-0.808298408	0.348221486	Hnrmpu	1.215630551	51810
51810	93761_at	Hnrmpu	heterogeneous nuclear ribonucleoprotein U	0.02752102	NA	Hnrmpu	1.215630551	51810
52014	94435_at	Nus1	nuclear undecaprenyl pyrophosphate synthase 1 homolog (S. cell division cycle associated 8	-0.365012718	0.717319015	Nus1	1.431183108	52014
52276	97295_at	Cdca8	cell division cycle associated 8	0.639946126	0.267278287	Cdca8	1.310652924	52276
52398	98778_at	11-Sep septin 11	septin 11	0.135782683	NA	11-Sep septin 11	1.87291105	52398
52615	103746_at	Suz12	suppressor of zeste 12 homolog (Drosophila)	0.226239546	NA	Suz12	1.221047468	52615
52615	101662_at	Suz12	suppressor of zeste 12 homolog (Drosophila)	0.054398882	0.967716366	Suz12	1.221047468	52615
52615	94044_at	Suz12	suppressor of zeste 12 homolog (Drosophila)	-0.242340648	0.918592278	Suz12	1.221047468	52615
52653	160395_at	Nudcd2	NudC domain containing 2	-0.184372035	0.932281414	Nudcd2	1.271703817	52653
52653	96932_at	Nudcd2	NudC domain containing 2	-0.091009475	NA	Nudcd2	1.271703817	52653
53333	160653_at	Tomm40	translocase of outer mitochondrial membrane 40 homolog (y	0.000654524	NA	Tomm40	1.029546738	53333
53379	93118_at	NA	NA	-0.713021618	0.648637306	Hnrnpa2b1	1.184662717	53379
53379	93117_at	NA	NA	-0.015754857	0.993536184	Hnrnpa2b1	1.184662717	53379
53381	93495_at	Prdx4	peroxiredoxin 4	0.718339177	0.132636582	Prdx4	1.795312595	53381
53382	160115_at	Txn1l	thioredoxin-like 1	0.265885191	0.751379765	Txn1l	1.586647125	53382
53414	160227_s_at	Bysl	bystin-like	0.020373755	0.986969008	Bysl	1.139846714	53414
53414	96644_at	Bysl	bystin-like	-0.038223134	NA	Bysl	1.139846714	53414
53416	160806_at	Stk39	serine/threonine kinase 39	0.258660683	0.749793945	Stk39	1.859797224	53416
53600	95441_at	Timm23	translocase of inner mitochondrial membrane 23	0.254365465	0.834046819	Timm23	1.468534267	53600
53605	98587_at	Nap1l	nucleosome assembly protein 1-like 1	0.026701646	0.982632525	Nap1l	1.176830407	53605
53605	98586_at	Nap1l	nucleosome assembly protein 1-like 1	-0.423519087	0.673061978	Nap1l	1.176830407	53605
53872	161232_r_at	NA	NA	0.057426045	NA	Caprin1	1.106657813	53872
53872	92611_at	NA	NA	-0.449084576	0.799295066	Caprin1	1.106657813	53872
54124	97468_at	NA	NA	1.11344572	0.078690024	Cks1b	2.0522206403	54124
54167	98282_at	Icos	inducible T cell co-stimulator	0.831150884	0.132636582	Icos	1.734011787	54167
54208	160371_at	Arl6ip1	ADP-ribosylation factor-like 6 interacting protein 1	0.131295857	0.943019651	Arl6ip1	1.033543581	54208
55932	103202_at	Gbp3	guanylate binding protein 3	0.77015084	0.361369647	Gbp3	1.148071836	55932
55989	92569_f_at	Nop58	NOP58 ribonucleoprotein	-0.368740328	0.588211203	Nop58	1.021815831	55989
56150	99632_at	NA	NA	1.233575994	0.300808594	Mad2l1	1.952698573	56150
56200	94361_at	Ddx21	DEAD (Asp-Glu-Ala-Asp) box polypeptide 21	-0.396741225	0.49305025	Ddx21	1.504335181	56200
56207	100511_at	Uchl5	ubiquitin carboxyl-terminal esterase L5	-0.222101531	0.891232036	Uchl5	1.432487074	56207
56334	93817_at	Tmed2	transmembrane emp24 domain trafficking protein 2	0.210776987	NA	Tmed2	1.072273929	56334
56334	93818_g_at	Tmed2	transmembrane emp24 domain trafficking protein 2	0.50587442	0.541897575	Tmed2	1.072273929	56334
56334	93819_at	Tmed2	transmembrane emp24 domain trafficking protein 2	0.277094109	0.838063932	Tmed2	1.072273929	56334
56347	94837_at	Eif3c	eukaryotic translation initiation factor 3, subunit C	0.168557877	0.908037691	Eif3c	1.877600961	56347
56351	94259_at	NA	NA	-0.639104404	0.63580862	Ptges3	1.029216362	56351
56403	94985_at	Syncrip	synaptotagmin binding, cytoplasmic RNA interacting protein	0.014952716	0.992515226	Syncrip	1.438856587	56403
56403	95606_at	Syncrip	synaptotagmin binding, cytoplasmic RNA interacting protein	0.317615663	0.813286604	Syncrip	1.438856587	56403
56419	95628_at	Diap3	diaphanous homolog 3 (Drosophila)	0.24477739	NA	Diap3	1.82925822	56419

56421	97833_at	Pfkfb	phosphofructokinase, platelet	1.058405316	0.112273147	Pfkfb	1.579433105	56421
56421	97834_g_at	Pfkfb	phosphofructokinase, platelet	1.249099967	0.258294165	Pfkfb	1.579433105	56421
56428	160262_at	Mtch2	mitochondrial carrier homolog 2 (C. elegans)	-0.277828718	0.925172215	Mtch2	1.077938362	56428
56452	95712_at	Orc6	origin recognition complex, subunit 6	0.12448766	NA	Orc6	2.014663006	56452
56459	95703_at	Sae1	SUMO1 activating enzyme subunit 1	-0.0893854228	0.96444129	Sae1	1.697269295	56459
56462	95689_at	Mtch1	mitochondrial carrier homolog 1 (C. elegans)	0.166420023	NA	Mtch1	1.09256987	56462
56530	100039_at	Cnpy2	canopy 2 homolog (zebrafish)	0.023437989	0.982378186	Cnpy2	1.029322121	56530
56702	99803_at	Hist1hb	histone cluster 1, H1b	0.103356181	0.953195288	Hist1hb	1.913490472	56702
56752	96243_f_at	Aldh9a1	aldehyde dehydrogenase 9, subfamily A1	-0.075227391	0.976021429	Aldh9a1	1.027373243	56752
56758	96354_at	Mbnl1	muscleblind-like 1 (Drosophila)	0.100629111	0.949779251	Mbnl1	1.185086406	56758
57296	98522_at	PsmD8	proteasome (prosome, macropain) 26S subunit, non-ATPase	0.582423339	0.204996004	PsmD8	1.006981825	57296
57436	93011_at	Gabaraph1	gamma-aminobutyric acid (GABA) A receptor-associated protein	0.658617852	0.126430741	Gabaraph1	2.01680464	57436
57441	160069_at	Gmnn	geminin	0.601134065	0.272059965	Gmnn	2.349643513	57441
57750	94674_at	D1Wsu158e	DNA segment, Chr 1, Wayne State University 158, expressed	-0.242429442	0.756552873	Wdr12	1.017558399	57750
57815	94387_at	Spata5	spermatogenesis associated 5	0.002734345	0.999646575	Spata5	1.187084867	57815
58523	95513_at	Elp2	elongator acetyltransferase complex subunit 2	-0.291158576	0.723137298	Elp2	1.128414223	58523
59008	95100_at	Anapc5	anaphase-promoting complex subunit 5	-0.428495835	0.575651991	Anapc5	1.47483713	59008
59024	103277_s_at	NA	NA	-0.229226495	0.850157869	Med12	1.182064414	59024
59027	94461_at	Nampt	nicotinamide phosphoribosyltransferase	-0.426943595	0.605588177	Nampt	1.036994897	59027
59035	99169_at	Carm1	coactivator-associated arginine methyltransferase 1	-0.102421346	0.941382	Carm1	1.015668576	59035
60365	97254_at	Rbm8a	RNA binding motif protein 8a	-0.068206565	0.967251179	Rbm8a	1.063465157	60365
60406	160068_at	Sap30	sin3 associated polypeptide	0.399360983	NA	Sap30	2.310907742	60406
60409	160361_at	Trappc4	trafficking protein particle complex 4	0.164599353	0.908037691	Trappc4	1.05375208	60409
60411	98400_at	Cenpk	centromere protein K	0.450204196	NA	Cenpk	1.736220984	60411
60530	96569_at	Figl1	figetin-like 1	0.011364808	NA	Figl1	2.822829914	60530
60530	160648_at	Figl1	figetin-like 1	1.003647624	0.106887304	Figl1	2.822829914	60530
60595	96343_at	Actn4	actinin alpha 4	0.319620564	0.551450752	Actn4	1.05741701	60595
64540	97473_at	Tspan4	tetraspanin 4	-0.0223992	NA	Tspan4	1.189606092	64540
64655	160621_at	Mrps22	mitochondrial ribosomal protein S22	0.071954522	NA	Mrps22	1.263422935	64655
65105	95136_at	Arl6ip4	ADP-ribosylation factor-like 6 interacting protein 4	0.245262447	NA	Arl6ip4	1.305159565	65105
65961	103876_at	Utp3	UTP3, small subunit (SSU) processome component, homolog	-0.007962206	NA	Utp3	1.851030856	65961
65972	97444_at	Ifi30	interferon gamma inducible protein 30	0.071540437	NA	Ifi30	1.048458747	65972
66054	160349_at	Cndp2	CNDP dipeptidase 2 (metallopeptidase M20 family)	-0.134549091	NA	Cndp2	1.249522745	66054
66092	160530_at	Ghitm	growth hormone inducible transmembrane protein	0.009269451	0.999145614	Ghitm	1.156083301	66092
66092	100592_at	Ghitm	growth hormone inducible transmembrane protein	-0.13017143	0.933412549	Ghitm	1.156083301	66092
66140	160987_r_at	Skaz2	spindle and kinetochore associated complex subunit 2	0.06881274	NA	Skaz2	1.03924568	66140
66152	94078_at	NA	NA	0.447967489	0.511286857	Uqer10	1.210297613	66152
66154	96353_at	Tmem14c	transmembrane protein 14C	0.127614516	0.949899324	Tmem14c	1.179871739	66154
66161	160154_at	Pop4	processing of precursor 4, ribonuclease P/MRP family, (S. cerevisiae)	0.02870272	0.980325583	Pop4	1.652216758	66161
66218	100079_at	Ndufb9	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9	0.586752478	0.308532112	Ndufb9	1.187087269	66218
66229	98138_at	Rpl7l1	ribosomal protein L7-like 1	-0.432011285	0.366926176	Rpl7l1	1.263428833	66229
66234	160388_at	Sc4mol	sterol-C4-methyl oxidase-like	-0.392810019	0.778413027	Msmo1	1.173001374	66234
66235	93358_at	Eif1ax	eukaryotic translation initiation factor 1A, X-linked	-0.079895474	0.967716366	Eif1ax	1.083364079	66235
66235	160111_at	Eif1ax	eukaryotic translation initiation factor 1A, X-linked	-0.492816783	0.748974726	Eif1ax	1.083364079	66235
66249	97237_at	Pnoi1	partner of NOB1 homolog (S. cerevisiae)	-0.50923786	0.802105989	Pnoi1	1.156984541	66249
66256	101061_at	Ssr2	signal sequence receptor, beta	0.249330537	0.866637141	Ssr2	1.107347984	66256
66258	94909_at	Mrps17	mitochondrial ribosomal protein S17	-0.00970307	NA	Mrps17	1.258825209	66258
66413	160239_at	PsmD6	proteasome (prosome, macropain) 26S subunit, non-ATPase	-0.296527166	0.711757607	PsmD6	1.079485418	66413
66427	96878_at	NA	NA	0.425711665	0.609295873	Cyb5b	1.226448689	66427
66427	103619_at	NA	NA	-0.360789502	0.568775091	Cyb5b	1.226448689	66427
66445	95072_at	Cyc1	cytochrome c-1	-0.340820216	0.67887747	Cyc1	1.154682637	66445
66445	162469_r_at	Cyc1	cytochrome c-1	-0.148974899	0.908037691	Cyc1	1.154682637	66445
66471	97556_at	Anp32e	acidic (leucine-rich) nuclear phosphoprotein 32 family, member 1	-0.02172943	0.987709904	Anp32e	1.340498501	66471
66471	97345_at	Anp32e	acidic (leucine-rich) nuclear phosphoprotein 32 family, member 1	0.168334959	NA	Anp32e	1.340498501	66471
66494	93774_at	NA	NA	0.82809963	0.067273329	Prelid1	1.61066905	66494
66537	94014_at	Pomp	proteasome maturation protein	0.463117775	0.416133096	Pomp	1.325427076	66537
66578	160784_r_at	Mist18a	MIS18 kinetochore protein homolog A (S. pombe)	-0.288610468	0.67887747	Mist18a	1.624166509	66578
66585	95677_at	Snrnp40	small nuclear ribonucleoprotein 40 (U5)	-0.089672216	0.953124546	Snrnp40	1.065892097	66585
66592	96289_at	Stoml2	stomatin (Ephb2)-like 2	0.188869683	0.883750377	Stoml2	1.027675724	66592
66624	96855_at	Spes2	signal peptidase complex subunit 2 homolog (S. cerevisiae)	-0.392920433	0.67887747	Spes2	1.138178812	66624
66868	94548_at	Mfsd1	major facilitator superfamily domain containing 1	0.146960023	0.958487806	Mfsd1	1.083090505	66868
66868	94549_at	Mfsd1	major facilitator superfamily domain containing 1	0.248818584	0.837268314	Mfsd1	1.083090505	66868
66870	96539_at	Serbp1	serpine1 mRNA binding protein 1	-0.594172342	0.340198522	Serbp1	1.130722934	66870
66890	161472_r_at	Lman2	lectin, mannose-binding 2	0.151894224	0.929987845	Lman2	1.058550347	66890
66890	93993_at	Lman2	lectin, mannose-binding 2	0.479480179	0.306122995	Lman2	1.058550347	66890
66913	162201_r_at	Kdelr2	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein ret	0.095409751	NA	Kdelr2	1.606462289	66913
66913	101922_at	Kdelr2	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein ret	0.098131836	NA	Kdelr2	1.606462289	66913
66923	98894_at	Phrm1	polybromo 1	-0.28778112	0.847556094	Phrm1	1.055327391	66923
66923	98893_at	Phrm1	polybromo 1	0.263131911	0.937706093	Phrm1	1.055327391	66923

66923	104218_s_at	Pbrm1	polybromo 1	-0.081261532	NA	Pbrm1	1.055327391	66923
66923	92703_at	Pbrm1	polybromo 1	0.071532584		Pbrm1	1.055327391	66923
66925	92574_at	Sdhf	succinate dehydrogenase complex, subunit D, integral memb	0.110071257		Sdhf	1.587302856	66925
66929	97364_at	Asf1b	ASF1 anti-silencing function 1 homolog B (S. cerevisiae)	0.496379563		Asf1b	3.024155101	66929
66953	95063_at	Cdca7	cell division cycle associated 7	0.210842192		Cdca7	1.589382429	66953
66964	92279_at	Golttb	golgi transport 1 homolog B (S. cerevisiae)	0.217843867	NA	Golttb	1.037836344	66964
66997	93971_f_at	Psm12	proteasome (prosome, macropain) 26S subunit, non-ATPase	-0.095279775		Psm12	1.566815494	66997
67005	104303_i_at	Polr3k	polymerase (RNA) III (DNA directed) polypeptide K	0.37801963		Polr3k	1.186079868	67005
67005	104304_r_at	Polr3k	polymerase (RNA) III (DNA directed) polypeptide K	0.482856485		Polr3k	1.186079868	67005
67037	98552_at	Pmf1	polyamine-modulated factor 1	0.214196744		Pmf1	1.738320057	67037
67039	97816_at	Rbm25	RNA binding motif protein 25	-0.617307357		Rbm25	1.044676523	67039
67052	161017_at	Ndc80	NDC80 homolog, kinetochore complex component (S. cerevis	0.055849086	NA	Ndc80	2.379845218	67052
67153	97164_at	Rnaseh2b	ribonuclease H2, subunit B	0.710983418		Rnaseh2b	1.422455676	67153
67154	93802_at	Mtdh	metadherin	0.083665835	NA	Mtdh	1.044599679	67154
67154	162057_f_at	Mtdh	metadherin	0.184051763	NA	Mtdh	1.044599679	67154
67166	95435_at	Arl8b	ADP-ribosylation factor-like 8B	-0.605671294		Arl8b	1.435207719	67166
67166	98490_at	Arl8b	ADP-ribosylation factor-like 8B	-0.169361525	NA	Arl8b	1.435207719	67166
67166	98491_at	Arl8b	ADP-ribosylation factor-like 8B	-0.145234951	NA	Arl8b	1.435207719	67166
67196	100955_at	Ube2t	ubiquitin-conjugating enzyme E2T (putative)	0.544433578	NA	Ube2t	1.494144093	67196
67203	94910_at	Nde1	nuclear distribution gene E homolog 1 (A nidulans)	0.303134331		Nde1	1.491874557	67203
67212	98109_at	Mrpl55	mitochondrial ribosomal protein L55	-0.014291578	NA	Mrpl55	1.16671699	67212
67300	160252_at	Cltc	clathrin, heavy polypeptide (Hc)	0.1260975		Cltc	1.305672835	67300
67308	104567_at	Mrpl46	mitochondrial ribosomal protein L46	-0.053673264	NA	Mrpl46	1.042870026	67308
67308	162436_at	Mrpl46	mitochondrial ribosomal protein L46	-0.014400463		Mrpl46	1.042870026	67308
67437	104249_g_at	Ssr3	signal sequence receptor, gamma	0.367274948		Ssr3	1.243234357	67437
67437	96007_at	Ssr3	signal sequence receptor, gamma	0.014016192		Ssr3	1.243234357	67437
67437	104248_at	Ssr3	signal sequence receptor, gamma	0.384076385		Ssr3	1.243234357	67437
67458	160184_at	Ergic1	endoplasmic reticulum-golgi intermediate compartment (ER	-0.194606579	NA	Ergic1	1.020907207	67458
67459	95357_at	Nvl	nuclear VCP-like	0.071466182	NA	Nvl	1.095956527	67459
67459	96565_at	NA	NA	0.092857682		Nvl	1.095956527	67459
67459	101366_f_at	Nvl	nuclear VCP-like	-0.011996784	NA	Nvl	1.095956527	67459
67511	100074_at	Tmed9	transmembrane emp24 protein transport domain containing	0.008949706		Tmed9	1.002222326	67511
67628	96891_at	Anp32b	acidic (leucine-rich) nuclear phosphoprotein 32 family, mem	0.119851715		Anp32b	1.322036502	67628
67673	160402_at	Teeb2	transcription elongation factor B (SIII), polypeptide 2	0.791265721		Teeb2	1.266840225	67673
67673	162470_at	NA	NA	0.21275985		Teeb2	1.266840225	67673
67675	95114_s_at	Cuta	cutA divalent cation tolerance homolog (E. coli)	0.296247182		Cuta	1.110855667	67675
67675	95113_at	Cuta	cutA divalent cation tolerance homolog (E. coli)	0.085830421		Cuta	1.110855667	67675
67781	93823_at	Ilf2	interleukin enhancer binding factor 2	-0.491456061		Ilf2	1.023726357	67781
67838	98572_at	Dnajb11	DnaJ (Hsp40) homolog, subfamily B, member 11	0.481304589		Dnajb11	1.322219506	67838
67849	161332_f_at	Cdca5	cell division cycle associated 5	0.680031535		Cdca5	1.662977885	67849
67849	160699_at	Cdca5	cell division cycle associated 5	0.323716359	NA	Cdca5	1.662977885	67849
67864	160475_at	Yipf4	Yip1 domain family, member 4	0.121459116		Yipf4	1.049947192	67864
67895	160314_at	Ppa1	pyrophosphatase (inorganic) 1	-0.042683834	NA	Ppa1	1.588049872	67895
67936	100917_at	Wdr55	WD repeat domain 55	0.073592701		Wdr55	1.05539378	67936
67941	160389_r_at	Rps27l	ribosomal protein S27-like	0.30852774		Rps27l	1.154243365	67941
67949	93342_at	Mki67ip	Mki67 (FHA domain) interacting nucleolar phosphoprotein	-0.676985096		Nifk	1.182243648	67949
67996	160182_at	Srsf6	serine/arginine-rich splicing factor 6	-0.996412879		Srsf6	1.157768247	67996
68024	93833_s_at	NA	NA	0.276734633		Histh2bc	1.702771027	68024
68026	161974_r_at	2810417H13R	RIKEN cDNA 2810417H13 gene	0.142451416	NA	2810417H13Rik	3.573239174	68026
68026	93952_r_at	2810417H13R	RIKEN cDNA 2810417H13 gene	0.303796015	NA	2810417H13Rik	3.573239174	68026
68026	100116_at	2810417H13R	RIKEN cDNA 2810417H13 gene	1.462257487		2810417H13Rik	3.573239174	68026
68092	94509_at	Ncbp2	nuclear cap binding protein subunit 2	0.177133718		Ncbp2	1.077105113	68092
68197	93359_at	Ndufc2	NADH dehydrogenase (ubiquinone) 1, subcomplex unknown	0.021113703	NA	Ndufc2	1.07607311	68197
68251	93992_at	Babam1	BRISC and BRCA1 A complex member 1	0.144676804		Babam1	1.30229523	68251
68275	95427_at	Rpa1	replication protein A1	-0.156199583		Rpa1	1.0671063	68275
68375	93531_at	Ndufa8	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 8	0.278251957	NA	Ndufa8	1.225309138	68375
68441	94257_at	Rraga	Ras-related GTP binding A	-0.191038335		Rraga	1.352661964	68441
68465	104605_at	Adipor2	adiponectin receptor 2	-0.269917967		Adipor2	1.135332176	68465
68612	161137_r_at	Ube2c	ubiquitin-conjugating enzyme E2C	-0.033489398	NA	Ube2c	2.930769721	68612
68653	95690_at	Samm50	sorting and assembly machinery component 50 homolog (S. c	-0.252438021		Samm50	1.104214886	68653
68693	104609_at	Hnrnpul2	heterogeneous nuclear ribonucleoprotein U-like 2	0.270240725		Hnrnpul2	1.182588848	68693
68693	104296_at	Hnrnpul2	heterogeneous nuclear ribonucleoprotein U-like 2	-0.012755203		Hnrnpul2	1.182588848	68693
68713	160254_at	Ifitm1	interferon induced transmembrane protein 1	0.135859921	NA	Ifitm1	1.049895115	68713
68743	96784_at	Anln	anillin, actin binding protein	0.761992486		Anln	2.033360541	68743
68926	104715_at	Ubap2	ubiquitin-associated protein 2	-0.067694518	NA	Ubap2	1.281903835	68926
68981	101506_at	Snrpa1	small nuclear ribonucleoprotein polypeptide A'	-0.311104201		Snrpa1	1.246426416	68981
69071	95137_at	Tmem97	transmembrane protein 97	0.383202997		Tmem97	1.699793701	69071
69104	99604_at	5-Mar	membrane-associated ring finger (C3HC4) 5	-0.36384367		5-Mar	1.405126864	69104
69178	93598_at	Snx5	sorting nexin 5	0.465420354		Snx5	1.340940563	69178

69178	93597_at	Snx5	sorting nexin 5	-0.019687949	NA	Snx5	1.340940563	69178
69227	97292_at	Selt	selenoprotein T	-0.598360415	0.630389729	Selt	1.025113253	69227
69263	160072_at	Rfc3	replication factor C (activator 1) 3	0.110787999	NA	Rfc3	1.315499966	69263
69666	104756_at	Psmg4	proteasome (prosome, macropain) assembly chaperone 4	-0.031899664	NA	Psmg4	1.221571555	69666
69716	101372_at	Trip13	thyroid hormone receptor interactor 13	0.273429455	0.756552873	Trip13	2.119111532	69716
69882	96045_at	Vwa9	von Willebrand factor A domain containing 9	-0.124717085	NA	Vwa9	1.220220591	69882
70021	96885_at	Nt5dc2	5'-nucleotidase domain containing 2	-0.219922264	0.810921469	Nt5dc2	1.768987501	70021
70024	103553_at	Mcm10	minichromosome maintenance deficient 10 (S. cerevisiae)	0.126277369	NA	Mcm10	1.786017075	70024
70208	95616_at	Med23	mediator complex subunit 23	-0.281179112	0.916740728	Med23	1.08506023	70208
70223	95070_at	Nars	asparaginyl-tRNA synthetase	-0.013065743	0.998186991	Nars	1.322996933	70223
70239	104561_at	Gtf3c5	general transcription factor IIIC, polypeptide 5	0.168610531	NA	Gtf3c5	1.102880558	70239
70247	95483_at	Psm1	proteasome (prosome, macropain) 26S subunit, non-ATPase	0.188931819	0.876016094	Psm1	1.298652049	70247
70572	161757_f_at	Ip05	importin 5	0.050107489	NA	Ip05	1.508999793	70572
70572	93070_at	Ip05	importin 5	-0.24741027	0.940051812	Ip05	1.508999793	70572
70769	95735_at	Nolc1	nucleolar and coiled-body phosphoprotein 1	-0.388309388	0.410937145	Nolc1	1.37922431	70769
71207	160188_at	Nudt4	nudix (nucleoside diphosphate linked moiety X)-type motif	0.523378763	0.418072109	Nudt4	1.667368385	71207
71207	160189_at	Nudt4	nudix (nucleoside diphosphate linked moiety X)-type motif	0.34254215	0.52868417	Nudt4	1.667368385	71207
71514	99620_at	Sfpq	splicing factor proline/ glutamine rich (polypyrimidine tract	0.147079289	0.958912883	Sfpq	1.200888112	71514
71514	99621_s_at	Sfpq	splicing factor proline/ glutamine rich (polypyrimidine tract	-0.439790714	0.511867765	Sfpq	1.200888112	71514
71514	102144_f_at	Sfpq	splicing factor proline/ glutamine rich (polypyrimidine tract	0.409171806	NA	Sfpq	1.200888112	71514
71514	97161_at	Sfpq	splicing factor proline/ glutamine rich (polypyrimidine tract	-0.768920472	0.204996004	Sfpq	1.200888112	71514
71514	161579_r_at	Sfpq	splicing factor proline/ glutamine rich (polypyrimidine tract	0.138344806	NA	Sfpq	1.200888112	71514
71521	102982_at	B230308N11	RKKN cDNA B230308N11 gene	-0.54518243	0.451972264	Pds5a	1.64167404	71521
71819	96168_at	Kif23	kinesin family member 23	0.035700245	0.981913032	Kif23	1.663751575	71819
71853	94209_g_at	Pdia6	protein disulfide isomerase associated 6	0.075334867	0.967251179	Pdia6	1.249428571	71853
71853	94207_at	Pdia6	protein disulfide isomerase associated 6	-0.053991907	0.970827248	Pdia6	1.249428571	71853
71853	94208_at	Pdia6	protein disulfide isomerase associated 6	0.205906589	NA	Pdia6	1.249428571	71853
71978	98916_at	Ppp2r2a	protein phosphatase 2 (formerly 2A), regulatory subunit B (I	-0.031122416	NA	Ppp2r2a	1.598821199	71978
72151	95612_at	Rfc5	replication factor C (activator 1) 5	0.323291546	0.599999639	Rfc5	1.330818931	72151
72151	104001_at	Rfc5	replication factor C (activator 1) 5	0.014161513	NA	Rfc5	1.330818931	72151
72162	95944_at	Dhx36	DEAH (Asp-Glu-Ala-His) box polypeptide 36	-0.383055217	0.889545776	Dhx36	1.100897896	72162
72391	94971_at	Cdkn3	cyclin-dependent kinase inhibitor 3	0.593443968	0.204996004	Cdkn3	4.0010733	72391
72415	103928_at	Sgoli	shugoshin-like 1 (S. pombe)	0.170827565	NA	Sgoli	2.755157521	72415
72415	161676_at	Sgoli	shugoshin-like 1 (S. pombe)	0.13852881	0.92948193	Sgoli	2.755157521	72415
72612	94360_at	2700029M09	RKKN cDNA 2700029M09 gene	0.451845646	0.678228652	Hpfi1	1.0520712	72612
72655	104089_at	Snhg5	small nucleolar RNA host gene 5	-1.533318262	0.113207294	Snhg5	1.301714627	72655
72776	96579_at	Sass6	spindle assembly 6 homolog (C. elegans)	-0.038567841	NA	Sass6	1.346361785	72776
73158	94260_at	Larp1	La ribonucleoprotein domain family, member 1	-0.42285915	0.424388731	Larp1	1.58132159	73158
73666	99490_at	Thoc3	THO complex 3	-0.188113849	0.868616586	Thoc3	1.687224618	73666
73945	94922_i_at	Otud4	OTU domain containing 4	-0.241098977	0.907781441	Otud4	1.068907165	73945
73945	94923_f_at	Otud4	OTU domain containing 4	-0.614241294	0.579063751	Otud4	1.068907165	73945
73945	160728_r_at	Otud4	OTU domain containing 4	-0.000427466	NA	Otud4	1.068907165	73945
74142	160328_at	Lonp1	lon peptidase 1, mitochondrial	-0.327730268	0.629403103	Lonp1	1.68764476	74142
74142	92684_at	Lonp1	lon peptidase 1, mitochondrial	0.036664936	0.976340772	Lonp1	1.68764476	74142
74203	101230_at	Eif4enif1	eukaryotic translation initiation factor 4E nuclear import fact	0.0484225	NA	Eif4enif1	1.182517196	74203
74617	98042_at	Scepi1	serine carboxypeptidase 1	0.30039402	NA	Scepi1	1.624184355	74617
74754	160369_at	Dherc24	24-dehydrocholesterol reductase	-0.016712271	NA	Dherc24	2.03203467	74754
74838	103791_at	Naa15	N(alpha)-acetyltransferase 15, NatA auxilliary subunit	0.015973161	NA	Naa15	1.010575868	74838
74838	96152_at	Naa15	N(alpha)-acetyltransferase 15, NatA auxilliary subunit	0.018345848	0.986969008	Naa15	1.010575868	74838
74838	93246_at	Naa15	N(alpha)-acetyltransferase 15, NatA auxilliary subunit	-0.303951533	0.819031499	Naa15	1.010575868	74838
74841	102776_at	Usp38	ubiquitin specific peptidase 38	-0.246780464	0.894733333	Usp38	1.22021854	74841
74841	160605_s_at	Usp38	ubiquitin specific peptidase 38	-0.25656009	0.835517807	Usp38	1.22021854	74841
75062	96029_at	Sf3a3	splicing factor 3a, subunit 3	-0.109991405	0.950433011	Sf3a3	1.177712532	75062
75234	103563_at	Rnf19b	ring finger protein 19B	0.307802158	0.58173751	Rnf19b	1.564537935	75234
75423	92294_at	Arf5a	ADP-ribosylation factor-like 5A	0.275677951	0.734748217	Arf5a	1.128671746	75423
75423	96751_at	Arf5a	ADP-ribosylation factor-like 5A	0.591364742	0.492967334	Arf5a	1.128671746	75423
75553	97380_at	Zc3h14	zinc finger CCH type containing 14	0.210875457	0.853552709	Zc3h14	1.397814281	75553
75956	101203_r_at	Srm2	serine/arginine repetitive matrix 2	0.042727306	NA	Srm2	1.200826972	75956
76267	160391_at	Fads1	fatty acid desaturase 1	-0.078042978	NA	Fads1	1.783558675	76267
76709	93288_at	Arpe2	actin related protein 2/3 complex, subunit 2	0.106100026	0.956690982	Arpe2	1.005361839	76709
76737	160119_at	NA	NA	0.033152113	NA	Crelk2	1.076747281	76737
76843	104423_at	Dtl	denticleless homolog (Drosophila)	0.790797991	0.076788766	Dtl	3.539145918	76843
76863	96647_at	Dcun1d5	DCN1, defective in cullin neddylation 1, domain containing 5	-0.504140401	0.793527575	Dcun1d5	2.10563786	76863
76936	96266_at	Hnrnpm	heterogeneous nuclear ribonucleoprotein M	-0.501097908	0.67887747	Hnrnpm	1.330082697	76936
77065	100004_at	Ints7	integrator complex subunit 7	-0.230043135	0.853552709	Ints7	1.46506506	77065
77891	94274_at	Ube2s	ubiquitin-conjugating enzyme E2S	0.089124904	0.950433011	Ube2s	1.649075331	77891
78394	160627_at	Ddx52	DEAD (Asp-Glu-Ala-Asp) box polypeptide 52	0.031723579	0.980325583	Ddx52	1.136121899	78394
78928	96145_at	Pigt	phosphatidylinositol glycan anchor biosynthesis, class T	0.005979916	NA	Pigt	1.034708573	78928
79555	94830_at	BC005537	cDNA sequence BC005537	-0.417824492	0.870655202	BC005537	1.197134	79555

80750	103930_at	N4bp1	NEDD4 binding protein 1	0.68558108	0.451972264	N4bp1	1.035150453	80750
80838	94114_at	Histh1a	histone cluster 1, H1a	0.122279919	NA	Histh1a	1.957498664	80838
80876	93018_at	NA	NA	0.0922280986	NA	Ifitm2	1.31605049	80876
80914	94367_at	Uck2	uridine-cytidine kinase 2	0.212255421	0.842747643	Uck2	1.998779985	80914
80986	104322_at	Ckap2	cytoskeleton associated protein 2	0.368605885	0.575994987	Ckap2	2.053046291	80986
81004	102889_at	Tblxr1	transducin (beta)-like 1X-linked receptor 1	0.023968068	0.992515226	Tblxr1	1.587914282	81004
81702	104683_at	Ankrd17	ankyrin repeat domain 17	-0.491930752	0.788808158	Ankrd17	1.228897922	81702
81702	102118_at	Ankrd17	ankyrin repeat domain 17	0.134879862	NA	Ankrd17	1.228897922	81702
81702	99031_at	Ankrd17	ankyrin repeat domain 17	-0.115283521	0.953391829	Ankrd17	1.228897922	81702
83962	94877_at	Btbd1	BTB (POZ) domain containing 1	0.057021914	NA	Btbd1	1.291150631	83962
83962	94878_at	Btbd1	BTB (POZ) domain containing 1	-0.464505958	0.568775091	Btbd1	1.291150631	83962
93687	93076_at	Csnkia1	casein kinase 1, alpha 1	-0.574481121	0.811127774	Csnkia1	1.058387621	93687
93687	99650_at	Csnkia1	casein kinase 1, alpha 1	-0.390938154	0.80380195	Csnkia1	1.058387621	93687
93736	95888_at	Aff4	AF4/FMR2 family, member 4	0.081954586	NA	Aff4	1.064465645	93736
94181	104147_at	Nans	N-acetylneuraminic acid synthase (sialic acid synthase)	0.470898422	0.556313214	Nans	1.101570595	94181
97908	93023_f_at	NA	NA	0.449393577	0.573931951	Histh3g	2.160604086	97908
97908	96416_f_at	NA	NA	0.19674045	0.882283725	Histh3g	2.160604086	97908
97908	93024_at	Histh3g	histone cluster 1, H3g	0.119184617	NA	Histh3g	2.160604086	97908
98238	94486_at	Lrrc59	leucine rich repeat containing 59	0.264281207	0.793527575	Lrrc59	1.348200897	98238
98415	160885_at	Nucks1	nuclear casein kinase and cyclin-dependent kinase substrate	-0.505117933	0.853552709	Nucks1	2.115187126	98415
98415	96833_at	Nucks1	nuclear casein kinase and cyclin-dependent kinase substrate	0.156695969	0.907781441	Nucks1	2.115187126	98415

Genes uniquely downregulated in the in vitro-generated engineered effector T cells					Entrez.Gene			
Entrez.Gene	Probe.Set.ID	Symbol	Name	logFC.Wherry	adj.P.Val.Wherry	SYMBOL	logFC.Stromnes	Entrez.Gene
108755	102368_at	Lymr2	LXR motif containing 2	-0.264866345	0.908136447	Lymr2	-1.037385491	108755
114664	102370_at	Hsd17b11	hydroxysteroid (17-beta) dehydrogenase 11	-0.87357956	0.047726655	Hsd17b11	-1.062557061	114664
11852	101030_at	Rhob	ras homolog gene family, member B	-0.684733024	0.231806186	Rhob	-1.395669265	11852
12478	99945_at	Cd19	CD19 antigen	-0.237853571	0.867882078	Cd19	-1.030432999	12478
12480	101896_at	Cd1d2	CD1d2 antigen	-0.209658085	NA	Cd1d2	-1.055792638	12480
12482	104173_at	Ms4a1	membrane-spanning 4-domains, subfamily A, member 1	-0.215863598	0.836127571	Ms4a1	-1.665650722	12482
12482	99446_at	Ms4a1	membrane-spanning 4-domains, subfamily A, member 1	-1.041561704	0.291243276	Ms4a1	-1.665650722	12482
12483	102939_s_at	Cd22	CD22 antigen	-0.312680611	0.766529632	Cd22	-1.092323287	12483
12902	102289_r_at	Cr2	complement receptor 2	-0.031254202	NA	Cr2	-1.318605568	12902
13136	92198_s_at	NA	NA	-0.608310927	0.185457742	Cd55	-1.598468338	13136
13136	103617_at	Cd55	CD55 antigen	-0.562132731	NA	Cd55	-1.598468338	13136
14128	94411_at	Feer2a	Fe receptor, IgE, low affinity II, alpha polypeptide	-0.101468959	0.972911278	Feer2a	-1.015463912	14128
14960	92866_at	H2-Aa	histocompatibility 2, class II antigen A, alpha	-0.85196514	0.697648235	H2-Aa	-1.569941616	14960
14961	100998_at	H2-Ab1	histocompatibility 2, class II antigen A, beta 1	-0.404139163	0.80380195	H2-Ab1	-1.653645394	14961
14969	94285_at	H2-Eb1	histocompatibility 2, class II antigen E, beta	-0.628316686	0.579063751	H2-Eb1	-1.48405621	14969
15446	93351_at	Hpgd	hydroxyprostaglandin dehydrogenase 15 (NAD)	-0.212185395	NA	Hpgd	-1.034187186	15446
16069	102372_at	Igj	immunoglobulin joining chain	-0.650258156	0.405766445	Jchain	-1.792676494	16069
16142	93638_s_at	NA	NA	-0.161255795	NA	Iglv1	-1.912829147	16142
16142	92316_f_at	2010309G21f	RIKEN cDNA 2010309G21 gene	-0.612898515	0.501200855	Iglv1	-1.912829147	16142
16598	96109_at	Klf2	Kruppel-like factor 2 (lung)	-0.209225107	0.842747643	Klf2	-1.057463207	16598
16641	99370_at	Klrc1	killer cell lectin-like receptor subfamily C, member 1	2.134327837	0.00022616	Klrc1	-1.833151333	16641
16643	93677_at	Klrd1	killer cell lectin-like receptor, subfamily D, member 1	0.368684268	0.504599498	Klrd1	-2.181975894	16643
170743	95884_at	Tlr7	toll-like receptor 7	-0.06860502	NA	Tlr7	-1.146712944	170743
17084	94425_at	Ly86	lymphocyte antigen 86	-0.075543837	0.9628001	Ly86	-1.803665079	17084
17105	100611_at	Ly2z	lysozyme 2	-0.311886452	NA	Ly2z	-1.095554816	17105
17105	101753_s_at	NA	NA	0.11177196	0.972911278	Ly2z	-1.095554816	17105
17105	162309_at	NA	NA	0.056566802	NA	Ly2z	-1.095554816	17105
18054	96153_at	Ngp	neutrophilic granule protein	-0.025695605	0.982378186	Ngp	-1.553437588	18054
18646	93931_at	Prf1	perforin 1 (pore forming protein)	1.376224829	0.003537229	Prf1	-1.705995795	18646
20201	103448_at	S100a8	S100 calcium binding protein A8 (calgranulin A)	0.223467485	0.940766699	S100a8	-2.822441129	20201
20202	103887_at	S100a9	S100 calcium binding protein A9 (calgranulin B)	0.26315768	0.922432602	S100a9	-2.316210784	20202
20592	100272_at	Kdm5d	lysine (K)-specific demethylase 5d	-0.053344397	NA	Kdm5d	-1.384086421	20592
22290	95337_at	Uty	ubiquitously transcribed tetraatricopeptide repeat gene, Y chr	0.036047971	NA	Uty	-1.640836378	22290
22354	98777_at	Vipr1	vasoactive intestinal peptide receptor 1	-0.043395949	NA	Vipr1	-1.013241435	22354
24110	95024_at	Usp18	ubiquitin specific peptidase 18	0.37700633	0.612561656	Usp18	-1.050486935	24110
243469	101332_at	Igk	immunoglobulin kappa chain complex	0.076584554	NA	Igk	-1.892924143	243469
243469	101332_at	Igk	immunoglobulin kappa chain complex	0.076584554	NA	Igk	-0.114023121	243469
243469	101332_at	Igk	immunoglobulin kappa chain complex	0.076584554	NA	Igk	-2.2333293	243469
243469	101332_at	Igk	immunoglobulin kappa chain complex	0.076584554	NA	Igk	-1.536415638	243469
243469	101332_at	Igk	immunoglobulin kappa chain complex	0.076584554	NA	Igk	-1.480117374	243469
243469	101332_at	Igk	immunoglobulin kappa chain complex	0.076584554	NA	Igk	-0.150525964	243469
26900	103842_at	Ddx3y	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked	0.047458629	NA	Ddx3y	-2.974299919	26900
26908	103674_f_at	Eif2s3y	eukaryotic translation initiation factor 2, subunit 3, structure	-0.113029737	NA	Eif2s3y	-1.82412276	26908
27027	104239_at	Tspan32	tetraspanin 32	-0.758934636	0.482240199	Tspan32	-1.447486765	27027
56753	160651_at	Taestd2	tumor-associated calcium signal transducer 2	0.028566243	NA	Taestd2	-1.271625616	56753

56753	103648_at	Tacstd2	tumor-associated calcium signal transducer 2	0.229226551	0.850790718	Tacstd2	-1.271625616	56753
57738	103918_at	Slc15a2	solute carrier family 15 (H+/peptide transporter), member 2	0.053362307	NA	Slc15a2	-1.448421631	57738
76024	94136_at	Gm11346	X-linked lymphocyte-regulated 5 pseudogene	-1.205185452	0.115795666	Gm11346	-1.013268765	76024
77128	98855_r_at	Crebrf	CREB3 regulatory factor	0.024745594	0.986969008	Crebrf	-1.278498222	77128
79560	94865_at	Ublp1	ubiquitin-like domain containing CTD phosphatase 1	0.088462014	0.956699082	Ublp1	-1.200413865	79560

Genes uniquely upregulated in the in vivo-generated effector CD8+ T cells

Entrez.Gene	Probe.Set.ID	Symbol	Name	logFC.Wherry	adj.P.Val.Wherry	SYMBOL	logFC.Stromnes	Entrez.Gene
105245	98918_at	Txndc5	thioredoxin domain containing 5	1.220031014	0.021260651	Txndc5	0.173670283	105245
107350	100944_at	AW112010	expressed sequence AW112010	1.469583706	0.001593294	AW112010	0.251680388	107350
114584	95654_at	NA	NA	1.202595123	0.005129336	Clic1	0.963069759	114584
11492	103554_at	Adam19	a disintegrin and metallopeptidase domain 19 (meltrin beta)	1.237855784	0.008570063	Adam19	0.931232628	11492
12044	102913_at	NA	NA	-0.069373474	NA	Bcl2a1a	0.40086899	12044
12044	102914_s_at	NA	NA	1.303333556	0.009479682	Bcl2a1a	0.40086899	12044
12044	93869_s_at	NA	NA	1.429936911	0.018769027	Bcl2a1a	0.40086899	12044
12334	101040_at	Capn2	calpain 2	1.269923956	0.026820595	Capn2	0.371973746	12334
12334	162112_i_at	NA	NA	0.027100846	NA	Capn2	0.371973746	12334
12362	102064_at	Casp1	caspase 1	1.159407078	0.014152511	Casp1	-0.352241147	12362
12393	161378_r_at	Runx2	runt related transcription factor 2	-0.058870148	NA	Runx2	0.136923385	12393
12393	92677_s_at	Runx2	runt related transcription factor 2	0.2538115	0.80380195	Runx2	0.136923385	12393
12393	92676_at	Runx2	runt related transcription factor 2	1.749318082	0.000466852	Runx2	0.136923385	12393
12506	103089_at	Cd48	CD48 antigen	1.168199334	0.017596359	Cd48	0.481015005	12506
12766	94173_at	Cxcr3	chemokine (C-X-C motif) receptor 3	2.266980085	6.58E-05	Cxcr3	0.398988139	12766
12772	93397_at	Ccr2	chemokine (C-C motif) receptor 2	4.161522687	5.81E-06	Ccr2	0.406879441	12772
12774	16198_f_at	Ccr5	chemokine (C-C motif) receptor 5	4.877441521	2.00E-05	Ccr5	0.984091011	12774
12774	102719_f_at	Ccr5	chemokine (C-C motif) receptor 5	1.388146755	NA	Ccr5	0.984091011	12774
12774	102718_at	Ccr5	chemokine (C-C motif) receptor 5	2.904566546	0.000251614	Ccr5	0.984091011	12774
12856	160230_at	Cox17	cytochrome c oxidase assembly protein 17	1.291480749	0.00331217	Cox17	0.806746745	12856
13730	97426_at	Emp1	epithelial membrane protein 1	2.91580198	0.00712399	Emp1	0.058086703	13730
14103	97113_at	FasL	Fas ligand (TNF superfamily, member 6)	2.643953371	0.000157507	FasL	-0.202940609	14103
14130	102337_s_at	Fcgr2b	Fc receptor, IgG, low affinity IIb	1.173489871	0.007681677	Fcgr2b	-0.537529949	14130
14945	99398_at	Gzmk	granzyme K	3.130985383	5.72E-06	Gzmk	-0.380476049	14945
15007	101898_s_at	H2-Q10	histocompatibility 2, Q region locus 10	1.373702292	0.007402918	H2-Q10	0.152638974	15007
15978	99334_at	Irfng	interferon gamma	2.510245441	0.001273793	Irfng	-0.036824154	15978
16174	95333_at	Ili8rap	interleukin 18 receptor accessory protein	2.713102394	2.00E-05	Ili8rap	0.480908619	16174
16182	101144_at	Ili8r1	interleukin 18 receptor 1	2.032275419	0.013913982	Ili8r1	-0.89084812	16182
16401	102656_at	Itga4	integrin alpha 4	0.567488249	0.459839668	Itga4	0.790913342	16401
16401	102655_at	Itga4	integrin alpha 4	1.946356274	0.002544546	Itga4	0.790913342	16401
16401	95292_at	Itga4	integrin alpha 4	2.070180084	0.00331217	Itga4	0.790913342	16401
16411	104308_at	Itgax	integrin alpha X	2.917898779	1.46E-05	Itgax	-0.133456592	16411
16412	100123_f_at	Itgb1	integrin beta 1 (fibronectin receptor beta)	1.889876173	0.007486995	Itgb1	0.531128835	16412
16412	100124_r_at	Itgb1	integrin beta 1 (fibronectin receptor beta)	1.955164561	0.000947393	Itgb1	0.531128835	16412
16543	102644_at	Mdfic	MyoD family inhibitor domain containing	1.642459214	0.016768675	Mdfic	0.865748593	16543
16641	99370_at	Klrc1	killer cell lectin-like receptor subfamily C, member 1	2.1343227837	0.00022616	Klrc1	-1.831315133	16641
16854	95706_at	Igals3	lectin, galactose binding, soluble 3	2.44005364	0.000482852	Igals3	0.197274099	16854
16952	93038_f_at	Anxa1	annexin A1	3.625753733	2.38E-05	Anxa1	-0.177670586	16952
16952	161703_f_at	Anxa1	annexin A1	2.988645725	0.000139683	Anxa1	-0.177670586	16952
16952	93037_i_at	Anxa1	annexin A1	1.739881743	NA	Anxa1	-0.177670586	16952
17035	96065_at	Lxn	latexin	1.155597871	0.006072566	Lxn	0.923720485	17035
17067	93077_s_at	NA	NA	1.840857748	0.000139683	Ly6c1	0.54539318	17067
17916	101708_at	Myoif	myosin IF	1.588867482	0.001273793	Myoif	0.790878519	17916
18646	93931_at	Prfi	perforin 1 (pore forming protein)	1.376224829	0.003537229	Prfi	-1.705995795	18646
19347	104108_at	Dendd5a	DENN/MADD domain containing 5A	1.13245403	0.009479682	Dendd5a	0.049400933	19347
19883	101889_s_at	Rora	RAR-related orphan receptor alpha	1.400489723	0.002386292	Rora	-0.166862523	19883
19883	101888_at	Rora	RAR-related orphan receptor alpha	0.174643141	0.894733333	Rora	-0.166862523	19883
20194	92539_at	St100a10	St100 calcium binding protein A10 (calpactin)	1.899763732	0.000280938	St100a10	0.488955368	20194
20194	162340_r_at	St100a10	St100 calcium binding protein A10 (calpactin)	0.34980654	0.539327141	St100a10	0.488955368	20194
20195	98600_at	NA	NA	1.999320794	0.000513538	St100a11	0.370554223	20195
20196	100960_g_at	St100a13	St100 calcium binding protein A13	0.742266208	0.323833629	St100a13	0.196901869	20196
20196	161862_i_at	St100a13	St100 calcium binding protein A13	0.394999089	0.437400662	St100a13	0.196901869	20196
20196	100959_at	St100a13	St100 calcium binding protein A13	1.9792471	0.001004265	St100a13	0.196901869	20196
20196	161121_f_at	St100a13	St100 calcium binding protein A13	1.769244357	0.002526576	St100a13	0.196901869	20196
20304	98406_at	Ccl5	chemokine (C-C motif) ligand 5	5.091797484	6.75E-06	Ccl5	-0.616781294	20304
20335	92636_f_at	NA	NA	1.416870004	0.044229127	Sec61g	0.215501172	20335
20400	103279_at	Sh2d1a	SH2 domain protein 1A	1.170175294	0.026820595	Sh2d1a	-0.134037499	20400
20723	98405_at	Serpinb9	serine (or cysteine) peptidase inhibitor, clade B, member 9	1.999694022	0.021624534	Serpinb9	0.000629048	20723
20893	104701_at	Bhlhe40	basic helix-loop-helix family, member e40	3.471264074	0.000144775	Bhlhe40	0.493453089	20893
21946	104099_at	Pglyrp1	peptidoglycan recognition protein 1	1.083710278	0.010956421	Pglyrp1	-0.21818204	21946

21946	162475_f_at	Pglyrp1	peptidoglycan recognition protein 1	1.740594212	0.000466852	Pglyrp1	-0.21818204	21946
22038	102839_at	Plscr1	phospholipid scramblase 1	1.21020895	0.026820595	Plscr1	0.52119224	22038
27007	93679_at	Klrk1	killer cell lectin-like receptor subfamily K, member 1	2.03072414	0.00010356	Klrk1	-0.565737622	27007
27007	93678_s_at	Klrk1	killer cell lectin-like receptor subfamily K, member 1	1.80033394	0.001630665	Klrk1	-0.565737622	27007
329650	95916_at	Med12	mediator of RNA polymerase II transcription, subunit 12 hor	1.2631893	0.026820595	Med12	-0.09111229	329650
50928	95320_at	Klrg1	killer cell lectin-like receptor subfamily G, member 1	5.083520213	1.45E-05	Klrg1	-0.640550603	50928
56018	96735_at	Stard10	START domain containing 10	1.281633057	0.014668898	Stard10	-0.252133373	56018
66151	96278_at	Prr13	proline rich 13	1.446403903	0.005286273	Prr13	0.503879456	66151
67103	98440_at	Ptgr1	prostaglandin reductase 1	1.230475257	0.019951345	Ptgr1	0.564118274	67103
68813	103260_at	Dock5	dedicator of cytokinesis 5	2.251184902	0.002564929	Dock5	0.366520596	68813
70025	100539_at	Acot7	acyl-CoA thioesterase 7	1.806608072	0.00020313	Acot7	0.547599307	70025
71982	94556_at	Snx10	sorting nexin 10	1.23610112	0.006215202	Snx10	0.24592731	71982
74155	93975_at	Errf1	ERBB receptor feedback inhibitor 1	1.719051275	0.02071006	Errf1	0.939935257	74155
74155	93974_at	Errf1	ERBB receptor feedback inhibitor 1	0.411504668	0.397767519	Errf1	0.939935257	74155
74318	96672_at	Hopx	HOP homeobox	2.234340502	0.000144775	Hopx	0.05852524	74318
93692	95722_at	Glrx	glutaredoxin	1.177385186	0.009479682	Glrx	0.364454686	93692
98366	160196_at	Smap1	stromal membrane-associated protein 1	1.013363794	0.037843607	Smap1	0.405248183	98366

Genes uniquely downregulated in the in vivo-generated effector CD8+ T cells								
Entrez.Gene	Probe.Set.ID	Symbol	Name	logFC.Wherry	adj.P.Val.Wherry	SYMBOL	logFC.Stromnes	Entrez.Gene
101476	161027_f_at	Plekha1	pleckstrin homology domain containing, family A (phosphoinositide)	-0.441201261	0.388803716	Plekha1	-0.467058764	101476
101476	94359_at	Plekha1	pleckstrin homology domain containing, family A (phosphoinositide)	-2.195916414	0.000106348	Plekha1	-0.467058764	101476
101476	162252_f_at	Plekha1	pleckstrin homology domain containing, family A (phosphoinositide)	-0.201334529	NA	Plekha1	-0.467058764	101476
103784	99849_at	Wdr92	WD repeat domain 92	-1.00606779	0.038622117	Wdr92	0.447154768	103784
104662	93488_at	NA	NA	-1.766337248	0.012261644	Tsr1	0.709413046	104662
109711	104579_r_at	Actn1	actin, alpha 1	-0.4110977693	0.021702853	Actn1	0.248100902	109711
109711	104578_f_at	Actn1	actin, alpha 1	-2.678260912	0.010270622	Actn1	0.248100902	109711
109711	92280_at	Actn1	actin, alpha 1	-0.460864157	0.322156225	Actn1	0.248100902	109711
11303	94354_at	Abca1	ATP-binding cassette, sub-family A (ABC1), member 1	-1.984383394	0.004840076	Abca1	-0.469350219	11303
11303	97198_at	Abca1	ATP-binding cassette, sub-family A (ABC1), member 1	0.077847136	NA	Abca1	-0.469350219	11303
114716	161070_at	Spred2	sprouty-related, EVH1 domain containing 2	-1.283354472	0.016324917	Spred2	0.534434089	114716
11792	93559_at	Apex1	apurinic/ypyrimidinic endonuclease 1	-1.077511293	0.014152511	Apex1	0.487645257	11792
12043	98870_at	Bcl2	B cell leukemia/lymphoma 2	-0.224785378	0.822790247	Bcl2	1.749843723	12043
12043	98869_g_at	Bcl2	B cell leukemia/lymphoma 2	-1.025138331	0.018769027	Bcl2	1.749843723	12043
12043	98868_at	Bcl2	B cell leukemia/lymphoma 2	-2.27871778	0.000513538	Bcl2	1.749843723	12043
12444	97504_at	Cnd2	cyclin D2	-1.237292083	0.005226562	Cnd2	0.982267591	12444
12516	92406_at	Cd7	CD7 antigen	-1.00962838	0.031465157	Cd7	-0.769838276	12516
12517	101878_at	Cd72	CD72 antigen	-1.766127009	0.023660774	Cd72	-0.475550096	12517
12702	162206_f_at	Soes3	suppressor of cytokine signaling 3	-1.690348988	0.005257553	Soes3	-0.632238635	12702
12702	92232_at	Soes3	suppressor of cytokine signaling 3	-0.246792152	0.849957674	Soes3	-0.632238635	12702
12750	101937_s_at	Clk4	CDC like kinase 4	-0.134576006	0.932004521	Clk4	0.387859761	12750
12750	101936_at	Clk4	CDC like kinase 4	-0.101722099	0.042884923	Clk4	0.387859761	12750
12775	104443_at	Ccr7	chemokine (C-C motif) receptor 7	-3.083961422	5.04E-05	Ccr7	0.046835755	12775
13039	101963_at	Ctsl	cathepsin L	-1.151256651	0.01962058	Ctsl	-0.309057984	13039
13040	98543_at	Ctss	cathepsin S	-1.091047277	0.016540922	Ctss	-0.219778617	13040
13139	103596_at	Dgka	diacylglycerol kinase, alpha	-1.248650442	0.021260651	Dgka	0.435528687	13139
13197	102292_at	Gadd45a	growth arrest and DNA-damage-inducible 45 alpha	-1.503751586	0.014668898	Gadd45a	-0.333966226	13197
13723	162068_r_at	Emb	embin	0.105494094	NA	Emb	0.622483867	13723
13723	101560_at	Emb	embin	-1.399044954	0.036013531	Emb	0.622483867	13723
14026	160667_at	Evl	Ena-vasodilator stimulated phosphoprotein	-1.530328179	0.000600372	Evl	0.161946641	14026
14026	161808_f_at	Evl	Ena-vasodilator stimulated phosphoprotein	-1.22041268	0.007681677	Evl	0.161946641	14026
140742	95731_at	Sesn1	sestrin 1	-2.110057169	0.000293145	Sesn1	-0.042152157	140742
14281	161716_at	Fos	FBJ osteosarcoma oncogene	-0.155900665	NA	Fos	-0.627077632	14281
14281	160901_at	Fos	FBJ osteosarcoma oncogene	-2.269358084	0.033779336	Fos	-0.627077632	14281
15312	96699_at	NA	NA	-1.517125612	0.001925095	Hmgn1	-0.090584354	15312
15526	97914_at	Hspa9	heat shock protein 9	-1.677976059	0.036423451	Hspa9	1.290306832	15526
16010	94222_at	Igf1bp4	insulin-like growth factor binding protein 4	-0.282881041	0.731531624	Igf1bp4	-0.440225338	16010
16010	101570_at	Igf1bp4	insulin-like growth factor binding protein 4	-0.206026052	NA	Igf1bp4	-0.440225338	16010
16010	101571_g_at	Igf1bp4	insulin-like growth factor binding protein 4	-1.129624339	0.008570063	Igf1bp4	-0.440225338	16010
16190	102021_at	Il4ra	interleukin 4 receptor, alpha	-1.238492293	0.01892847	Il4ra	0.826493763	16190
16190	161192_at	Il4ra	interleukin 4 receptor, alpha	-0.390510224	0.619433184	Il4ra	0.826493763	16190
16407	161730_f_at	Itgae	integrin alpha E, epithelial-associated	-1.02766595	0.127948339	Itgae	-0.520102177	16407
16407	93991_at	Itgae	integrin alpha E, epithelial-associated	-2.40550613	0.000545357	Itgae	-0.520102177	16407
17125	102983_at	Smad1	SMAD family member 1	-2.575601234	0.000416825	Smad1	0.035232985	17125
17125	102984_g_at	Smad1	SMAD family member 1	-2.48899859	0.001097476	Smad1	0.035232985	17125
17131	92216_at	Smad7	SMAD family member 7	-1.048684924	0.018769027	Smad7	-0.318371843	17131
17869	104712_at	Myc	myelocytomatosis oncogene	-1.561480152	0.00673194	Myc	0.773786827	17869
18197	160413_at	Nsg2	neuron specific gene family member 2	-2.458751618	0.000370242	Nsg2	-0.652914523	18197
18438	95586_at	P2rx4	purinergic receptor P2X, ligand-gated ion channel 4	-1.501360477	0.003590554	P2rx4	-0.357716887	18438

20230	99665_at	Satb1	special AT-rich sequence binding protein 1	-1.058315586	0.010956421	Satb1	0.791047534	20230
20343	102838_at	Sell	selectin, lymphocyte	-2.181838347	0.000382694	Sell	-0.219584047	20343
20499	104719_at	Slc12a7	solute carrier family 12, member 7	-1.955988627	0.001200637	Slc12a7	-0.561117665	20499
21414	97995_at	Tcf7	transcription factor 7, T cell specific	-1.217954722	0.025667119	Tcf7	0.726064946	21414
21414	97994_at	Tcf7	transcription factor 7, T cell specific	-2.401344928	0.000110356	Tcf7	0.726064946	21414
214162	104569_at	Kmt2a	lysine (K)-specific methyltransferase 2A	-1.139724183	0.033788904	Kmt2a	0.739108499	214162
214162	104568_at	Kmt2a	lysine (K)-specific methyltransferase 2A	-0.488416889	0.303505533	Kmt2a	0.739108499	214162
216363	95539_at	Rab3ip	RAB3A interacting protein	-1.379111373	0.004057749	Rab3ip	-0.405463967	216363
216363	161209_r_at	Rab3ip	RAB3A interacting protein	0.071175228	0.960669676	Rab3ip	-0.405463967	216363
21673	103962_at	Dnmt	deoxynucleotidyltransferase, terminal	-0.360019449	0.513655074	Dnmt	0.250040618	21673
21673	161409_f_at	Dnmt	deoxynucleotidyltransferase, terminal	-1.049351815	0.050494223	Dnmt	0.250040618	21673
21673	103961_s_at	Dnmt	deoxynucleotidyltransferase, terminal	-1.128136815	0.027342577	Dnmt	0.250040618	21673
21682	103539_at	Tec	tec protein tyrosine kinase	-1.479757819	0.002477571	Tec	0.127132747	21682
22129	98555_at	Ttc3	tetratricopeptide repeat domain 3	-1.432631852	0.005973482	Ttc3	-0.142308553	22129
226442	94109_at	Zfp281	zinc finger protein 281	-1.489293006	0.030919351	Zfp281	0.020252303	226442
227937	96187_at	Pkp4	plakophilin 4	-1.622356884	0.043636217	Pkp4	-0.011193158	227937
228019	160625_f_at	Mettl8	methyltransferase like 8	-1.029531591	0.019215962	Mettl8	0.031758531	228019
228019	103359_at	Mettl8	methyltransferase like 8	-0.870713604	0.11153255	Mettl8	0.031758531	228019
228026	100977_at	Pdki	pyruvate dehydrogenase kinase, isoenzyme 1	-2.539153334	0.001382227	Pdki	-0.273078897	228026
23872	94246_at	Ets2	E26 avian leukemia oncogene 2, 3' domain	-1.048452181	0.018639064	Ets2	-0.178477368	23872
353282	100706_f_at	Sfmbt2	Scm-like with four mbt domains 2	-1.590339234	0.012810908	Sfmbt2	0.10563662	353282
51801	104680_at	Ramp1	receptor (calcitonin) activity modifying protein 1	-1.503860348	0.003797726	Ramp1	-0.742792963	51801
56354	160153_at	Dnajc7	DnaJ (Hsp40) homolog, subfamily C, member 7	-1.300655035	0.008414899	Dnajc7	0.475429901	56354
56812	98451_at	Dnajb2	DnaJ (Hsp40) homolog, subfamily B, member 2	-1.037269263	0.023660774	Dnajb2	-0.640692862	56812
59052	95045_at	Mettl9	methyltransferase like 9	-1.060754445	0.036970283	Mettl9	0.300560799	59052
66214	160359_at	Rgcc	regulator of cell cycle	-1.18083893	0.012263299	Rgcc	-0.638803288	66214
66270	95518_at	Fam134b	family with sequence similarity 134, member B	-1.523816567	0.000858126	Fam134b	-0.32442686	66270
66626	100586_i_at	Cdip1	cell death inducing Trp53 target 1	-0.063878863	NA	Cdip1	0.073721738	66626
66626	100587_f_at	Cdip1	cell death inducing Trp53 target 1	-1.218348255	0.017256327	Cdip1	0.073721738	66626
66970	103504_at	Ssbp2	single-stranded DNA binding protein 2	-1.880930061	0.002849548	Ssbp2	-0.121705168	66970
67245	94505_at	Peli1	pellino 1	-1.222668136	0.026713839	Peli1	0.148017655	67245
67393	95701_at	Cxcr5	CXCR5 finger 5	-1.372323245	0.009479682	Cxcr5	-0.503672674	67393
67603	161536_r_at	Dusp6	dual specificity phosphatase 6	0.207140975	NA	Dusp6	-0.983679534	67603
67603	93285_at	Dusp6	dual specificity phosphatase 6	-2.350745605	0.000110356	Dusp6	-0.983679534	67603
67865	161765_f_at	Rgs10	regulator of G-protein signalling 10	-1.241399453	0.003537229	Rgs10	-0.419270002	67865
67865	160629_at	Rgs10	regulator of G-protein signalling 10	-2.085034316	0.000178329	Rgs10	-0.419270002	67865
67865	103384_at	Rgs10	regulator of G-protein signalling 10	0.064224728	NA	Rgs10	-0.419270002	67865
68703	103404_at	Rere	arginine glutamic acid dipeptide (RE) repeats	-1.002122541	0.023880744	Rere	-0.175367945	68703
69740	100912_at	Dph5	DPH5 homolog (S. cerevisiae)	-1.604260363	0.018769027	Dph5	-0.292852299	69740
71994	160150_f_at	Cnn3	calponin 3, acidic	-2.621312916	2.00E-05	Cnn3	-0.093255852	71994
72148	161405_r_at	Tdrp	testis development related protein	-0.030811165	NA	Tdrp	-0.899090484	72148
72148	100902_at	Tdrp	testis development related protein	-4.174363739	3.43E-06	Tdrp	-0.899090484	72148
76566	96791_at	Fam101b	family with sequence similarity 101, member B	-3.110261813	7.50E-06	Rfnb	-0.704186517	76566
83814	103907_at	Nedd4l	neural precursor cell expressed, developmentally down-regul	-0.323616383	0.617534657	Nedd4l	-0.114303809	83814
83814	103906_f_at	Nedd4l	neural precursor cell expressed, developmentally down-regul	-1.074239288	0.01892847	Nedd4l	-0.114303809	83814