

Supplementary Table 12: List of 666 genes marked red in figure 3 that visually differentiated clusters 2 and 3

	group 2 avg	group 2 sd	group 3 avg	group 3 sd	FC	logFC
LOC285484	0	0	0.01810586	0.0327206	Inf	Inf
KIR2DL1	0.00019698	0.00102356	0.04033766	0.12501806	204.775885	7.67790202
KIR2DL2	0.00079033	0.00410667	0.04423361	0.18788369	55.9685575	5.80654466
KIR3DX1	0.00118973	0.00430089	0.0227923	0.03852748	19.1576091	4.25984561
PDZK1IP1	0.0120123	0.03048899	0.20516608	0.34672501	17.0796668	4.09420792
MMRN1	0.00129724	0.00322589	0.01751809	0.02904393	13.5041587	3.75533186
TNFRSF13C	0.01177415	0.03468898	0.15619067	0.3184038	13.26556	3.72961368
TCAF2P1	0.00182606	0.00542774	0.02205437	0.02692687	12.0775779	3.59425925
RLN2	0.01266902	0.02469827	0.13661401	0.19561325	10.7833115	3.43072838
INSL3	0.0194798	0.08920262	0.18269693	0.33744795	9.37879032	3.22940186
LOC10050555	0.0255723	0.06242097	0.22450113	0.24254849	8.77907459	3.13406887
NUGGC	0.04499276	0.05066229	0.38793592	0.39959135	8.62218456	3.10805344
FCRL5	0.00746028	0.01392186	0.06354694	0.1269395	8.51803669	3.09052095
LOC10192748	0.03730432	0.06629969	0.31773964	0.3789806	8.51750201	3.09043038
DOC2GP	0.01365504	0.04952461	0.11414524	0.25389348	8.35920411	3.06336559
CCR8	0.05110063	0.06744294	0.41492774	0.38787953	8.11981591	3.02144702
GLB1L3	0.00439813	0.00672917	0.03404923	0.05254988	7.74174312	2.95265844
GZMH	0.93155028	1.23517108	6.88897117	9.092698	7.39516839	2.886583
LINC00426	0.07048157	0.08434009	0.51711288	0.39828582	7.33685235	2.87516125
SYNGR3	0.03047795	0.03713027	0.21729968	0.25899474	7.12973366	2.83384818
GZMK	0.58406275	0.61193474	4.13537548	8.12484641	7.08036164	2.82382305
GZMA	1.59157504	1.28944652	11.1507319	13.1751834	7.00609875	2.80861132
IGLL5	0.19034409	0.32844602	1.33032132	2.83167441	6.98903404	2.80509307
B3GAT1	0.02211549	0.04113053	0.15331529	0.14000173	6.93248453	2.79337249
NBL1	0.07160343	0.11469574	0.49466354	0.64854986	6.90837738	2.78834689
LINC00892	0.36028254	0.36043903	2.47645042	1.90479553	6.87363419	2.78107308
GPR174	0.18412317	0.17964951	1.26287521	1.06112107	6.85886101	2.77796902
PRTFDC1	0.0041435	0.01324408	0.02810785	0.06375707	6.78360132	2.76205138
GPR25	0.07518413	0.10728933	0.50525087	0.43144611	6.72017941	2.74849975
THEMIS	0.26184956	0.16378276	1.73566198	1.65597634	6.62847012	2.72867593
SLC14A1	0.0073932	0.01886136	0.04840051	0.06526873	6.54662634	2.71075164
JCHAIN	0.34766809	0.27038767	2.26160038	5.75075282	6.50505605	2.70156149
UGT8	0.00361752	0.00852439	0.02310336	0.03970047	6.38651513	2.67502893
POU2AF1	0.02140636	0.02321959	0.13624998	0.14889212	6.36492885	2.67014439
TRAT1	0.35525602	0.27276737	2.25167879	1.73956235	6.33818626	2.66407006
CCL5	6.28860396	5.10000515	39.8482565	44.7132863	6.33658228	2.66370491
GNLY	1.25147974	1.52840668	7.88663358	7.94289161	6.30184679	2.65577468
CD96	0.56301017	0.31039736	3.51169571	2.86461486	6.23735746	2.64093494
GZMB	1.44071956	1.12212935	8.95852288	11.9174787	6.21808932	2.63647134
SH2D2A	0.48524886	0.36750936	3.01587021	2.97763449	6.2151001	2.63577763
SLA2	0.48852211	0.29108354	3.02720869	3.04579467	6.19666673	2.63149238
FSD1	0.01601426	0.03739742	0.09922711	0.11499317	6.19617209	2.63137721
IL12RB2	0.09705867	0.06793307	0.60008216	0.59241632	6.18267446	2.62823105
AFAP1L2	0.01754869	0.02667657	0.10803521	0.1312316	6.15631175	2.62206629
SCML4	0.1608846	0.13038753	0.98075385	0.75742145	6.09600835	2.60786488
LINC01260	0.04638987	0.06454706	0.28253256	0.40856526	6.09039292	2.60653531
VIPR1	0.02432363	0.03603023	0.14774459	0.16238692	6.07411883	2.60267513
RAB27B	0.02408278	0.02128931	0.14597002	0.16550382	6.06117717	2.59959801
IL32	3.62018982	2.42056331	21.8393594	19.9296256	6.03265588	2.59279329

NCR1	0.05403209	0.08834303	0.32575795	0.52001303	6.02897161	2.59191194
FASLG	0.23764372	0.17998526	1.42355367	1.33041698	5.99028536	2.58262473
MIAT	0.32144928	0.20975936	1.91958777	1.40042729	5.97166615	2.57813351
IGFBP3	0.02510511	0.04034243	0.14862995	0.151472	5.92030737	2.56567208
IKZF3	0.44173267	0.24158121	2.60661892	2.13471487	5.90089689	2.56093425
F2R	0.24021975	0.12736107	1.41504235	1.26025275	5.89061626	2.55841857
PXYLP1	0.03291064	0.0363995	0.19222427	0.13141346	5.84079322	2.54616431
PRF1	0.77566948	0.53383674	4.51654215	5.17800792	5.82276634	2.54170473
ZNF831	0.08438874	0.06140996	0.48948402	0.32372437	5.80034793	2.53613944
TAL1	0.00644937	0.01174021	0.03728549	0.08876141	5.78126128	2.53138427
TBX21	0.17253784	0.13697584	0.99133374	0.76852976	5.74560198	2.52245805
BCL11B	0.16861851	0.09648407	0.96834417	0.76516753	5.74281056	2.52175697
TGFBR3	0.05271254	0.03250121	0.30169622	0.27794859	5.72342412	2.51687852
SH2D1A	0.1621508	0.12367225	0.91850198	0.83990364	5.66449247	2.5019467
DBH	0.01026128	0.01928324	0.05800655	0.06437279	5.65295381	2.49900491
TMIGD2	0.11435374	0.14521283	0.64328589	0.6416285	5.62540295	2.49195644
ATP1A3	0.04544567	0.04465002	0.25521634	0.18724886	5.61585561	2.48950584
HOPX	0.9870594	0.73852169	5.534767	4.91276459	5.60732923	2.48731378
NKG7	1.58680756	1.28456363	8.89509565	14.4594131	5.60565496	2.48688295
CD40LG	0.5825414	0.40721471	3.25870085	2.64685094	5.59393865	2.48386443
TC2N	0.27754756	0.1731116	1.55042306	1.05962994	5.58615268	2.48185501
KCNQ5	0.00315381	0.00456762	0.01730024	0.02118742	5.48551141	2.45562613
CXCR3	0.65944492	0.38110443	3.58074869	2.77191493	5.42994353	2.44093719
CDHR1	0.0124987	0.01802525	0.06781385	0.08818369	5.42567271	2.43980202
GRAP2	0.43113905	0.31029099	2.33914179	1.60805636	5.42549278	2.43975418
PPP1R16B	0.62383882	0.30935568	3.35582698	2.87486904	5.37931738	2.42742311
IL18RAP	0.2293542	0.15773314	1.23269585	1.11029751	5.37463824	2.42616765
ST8SIA1	0.01797936	0.01348514	0.09622619	0.08702098	5.35203631	2.4200879
ABCD2	0.03894318	0.03365154	0.20821499	0.17685115	5.34663583	2.41863142
JAKMIP1	0.17138966	0.21435693	0.91583998	0.8532247	5.34361271	2.41781545
LINC01550	0.01372801	0.02509554	0.07321705	0.09841116	5.3334052	2.41505694
CD3E	2.36125441	1.45388634	12.5811892	8.6942895	5.32818028	2.4136429
IL2RB	1.175121	0.69336739	6.24524646	4.83170144	5.31455608	2.40994919
ITM2A	0.46707747	0.30977972	2.47528883	2.33337692	5.29952518	2.4058631
LCK	1.69059793	0.93399487	8.92982563	6.18071065	5.28205169	2.40109842
SAMD3	0.17467063	0.15299452	0.92018225	1.20653863	5.26809935	2.39728255
TSPAN5	0.09107504	0.06695601	0.47870287	0.38603451	5.25613658	2.39400277
PLXDC1	0.05833162	0.05206994	0.3061764	0.23726055	5.24889225	2.39201298
GZMM	0.25287297	0.33780228	1.32604504	1.30462252	5.24391776	2.39064506
EOMES	0.17169982	0.1154152	0.89647194	1.1828329	5.22115844	2.38436994
NLRC3	0.35255783	0.16862711	1.83988821	1.30881973	5.21868486	2.38368629
EPHA4	0.02687659	0.03316182	0.14006755	0.14274876	5.21150786	2.38170085
LINC00861	0.33229184	0.30050262	1.73172594	1.47982949	5.21146091	2.38168786
LY9	0.39196658	0.20456869	2.03095888	1.62257604	5.18145931	2.37335848
CAMK2N1	0.02592453	0.03886362	0.13214145	0.14272034	5.09715944	2.34969348
SH2D1B	0.05160319	0.04554132	0.26221192	0.47639082	5.08131271	2.34520125
UBASH3A	0.34987843	0.27165859	1.77043002	1.4086806	5.06012904	2.33917418
ZNF683	0.75736665	1.13005618	3.80707567	3.30945475	5.02672736	2.32961944
INPP4B	0.11243197	0.08673199	0.56469019	0.45137603	5.0225057	2.3284073
KLRC3	0.0749891	0.10691804	0.37637755	0.51426297	5.01909702	2.32742784
CCDC141	0.00261344	0.00371813	0.01309654	0.01540419	5.01123353	2.32516577
PTGDR	0.05409146	0.06594804	0.26983797	0.21224665	4.98854998	2.31862053

LZTS1	0.04807353	0.0486097	0.23783221	0.20319939	4.94725954	2.30662959
SPOCK2	1.32542707	0.73149534	6.54782896	3.86814992	4.94016539	2.30455934
ZAP70	0.75990685	0.52542708	3.73737617	2.51110242	4.91820301	2.29813129
CD8A	1.4592963	1.17404821	7.13849431	9.79134177	4.89173743	2.29034697
ITM2C	0.4736768	0.25131552	2.2892474	3.34110407	4.83293118	2.27289845
PLCXD2	0.0341641	0.03799593	0.16503658	0.12013534	4.8307022	2.27223292
ITK	1.0098732	0.51857676	4.86882	3.20192635	4.82121912	2.269398
IL31RA	0.0105281	0.03555224	0.0506839	0.05979556	4.814156	2.26728289
APOBEC3D	0.23356996	0.18780266	1.12318931	0.82136014	4.80879176	2.26567445
LOC440461	0.01804284	0.02495874	0.08647429	0.11502835	4.7927201	2.26084469
CD79A	0.15457058	0.1921099	0.74018684	1.09118799	4.7886657	2.25962372
SEPT1	1.33477448	0.65856087	6.36347396	5.09487502	4.76745252	2.25321857
ETS1	1.51691856	0.67192429	7.220055	4.54809696	4.75968533	2.2508662
KIR2DL4	0.03668346	0.09459103	0.17353914	0.21171529	4.73071894	2.24205945
LINC00299	0.01082372	0.02798454	0.05118091	0.08410532	4.72858645	2.24140897
DMWD	0.07735108	0.07807027	0.36532135	0.23900974	4.72289898	2.23967268
LINC00943	0.01251762	0.0219071	0.0590795	0.07801267	4.71970626	2.23869707
NELL2	0.131742	0.09965594	0.61376983	0.39941419	4.65887744	2.21998238
RORC	0.12125477	0.10814133	0.56227033	0.47124541	4.63709853	2.21322238
GNG2	0.69373204	0.27040548	3.20751354	2.21266124	4.62356266	2.20900494
NPDC1	0.09031202	0.0894995	0.41526988	0.48206219	4.59816865	2.20105938
HIST1H2BH	0.21178374	0.35640484	0.96445954	1.15596662	4.55398294	2.18712889
LOC10099628	0.07256646	0.14070423	0.32947685	0.31987318	4.54034597	2.18280224
TNFRSF25	0.66778993	0.51483209	3.0284016	1.77115553	4.5349615	2.1810903
DOCK9	0.14048824	0.07813332	0.63521503	0.47033861	4.52148169	2.17679562
APBA2	0.05642016	0.07058087	0.25479413	0.24782617	4.51601193	2.1750493
ANO9	0.17690799	0.13102017	0.79866027	0.52170868	4.51455168	2.17458273
GPR171	0.82342663	0.47608588	3.71667646	3.26817247	4.51367047	2.17430109
LAG3	0.43290487	0.25425024	1.94890867	2.74678652	4.50193287	2.17054455
MS4A1	0.15021376	0.13216219	0.67601114	0.59879176	4.50032771	2.17003006
ZNF507	0.06665642	0.04491958	0.29972718	0.16776064	4.4965989	2.1688342
LOXL1-AS1	0.05017862	0.05718057	0.22517566	0.16873282	4.48748222	2.16590622
FRMPD3	0.01271124	0.01746973	0.05691599	0.06613143	4.47761012	2.16272892
CD247	1.03377952	0.58383996	4.62704188	3.41703434	4.47584982	2.16216163
DAPK2	0.16503712	0.10167745	0.73802006	0.66729998	4.47184288	2.1608695
DTX3	0.10698597	0.09421962	0.47573545	0.42844677	4.44670859	2.15273786
ANTXRPL1	0.03899413	0.15009193	0.17298468	0.17355827	4.43617223	2.14931538
KLRD1	0.20663585	0.15618156	0.91662182	1.16592887	4.43592829	2.14923604
RGS9	0.12021737	0.10610308	0.53265303	0.39591383	4.43074919	2.14755066
BACH2	0.0292794	0.02454507	0.12950026	0.09962067	4.42291434	2.1449973
STAT4	0.48318653	0.26097751	2.13665754	1.51803974	4.42201385	2.14470354
ZSWIM5	0.01130869	0.01260686	0.04986438	0.05062723	4.40938491	2.14057742
VSIG1	0.01391095	0.0136939	0.06103802	0.05759834	4.38776714	2.13348696
DOK6	0.00725649	0.00924704	0.03159911	0.03268131	4.35459803	2.12253955
RASGRP1	0.60750393	0.25248517	2.6438124	1.69685668	4.35192644	2.12165417
THEM5	0.05053466	0.07373105	0.21876523	0.24410233	4.32901404	2.11403848
ABLIM1	0.19498067	0.1019451	0.84095429	0.48932114	4.31301356	2.10869625
BTBD11	0.04106285	0.03153554	0.17701067	0.1253447	4.31072588	2.10793082
TRAF3IP3	1.24139607	0.72006131	5.35104108	3.07342127	4.31050266	2.10785612
PYHIN1	0.3313994	0.23330214	1.42356471	1.24353621	4.29561648	2.10286519
BTLA	0.0887307	0.07251019	0.38100154	0.31996848	4.29390874	2.10229153
TNFRSF13B	0.02105781	0.05874161	0.09030562	0.13051875	4.28846266	2.10046056

KLRK1	0.87173129	0.80820027	3.72089858	3.61855318	4.26840088	2.09369568
GCNT4	0.01281027	0.01657013	0.05440817	0.06931804	4.24723118	2.08652264
SYNE2	0.72455889	0.48328222	3.07680788	1.9819903	4.24645658	2.0862595
P2RY10	0.29538967	0.18723001	1.25139983	0.84636577	4.23643741	2.08285155
GPR18	0.13048024	0.1158386	0.55141048	0.57225857	4.22600751	2.07929533
KIF5A	0.00761817	0.01574092	0.03214716	0.03860968	4.21979908	2.07717431
ABCB1	0.05029328	0.04283782	0.21141156	0.16540727	4.20357471	2.07161671
ITPRIPL1	0.18207195	0.21569862	0.76482506	0.65093957	4.20067481	2.07062111
PDCD1	0.15741346	0.13444369	0.65899779	0.68717062	4.18641331	2.06571475
LEF1	0.25584001	0.18374759	1.06651153	0.79700433	4.16866592	2.05958576
ZFR2	0.00881595	0.01405472	0.03650207	0.09980522	4.14046062	2.04979127
MZB1	0.10773059	0.15479974	0.44504572	0.9083906	4.1310991	2.04652567
SIT1	0.57899719	0.30061469	2.38977258	2.03793617	4.12743383	2.04524509
SLC38A1	0.49947222	0.22326894	2.05472077	1.25864227	4.11378387	2.040466
SATB1-AS1	0.0290401	0.06316211	0.11921008	0.19511409	4.10501621	2.03738792
LOC10192810	0.02392208	0.03399693	0.09803842	0.09760926	4.09824053	2.03500466
WNT10B	0.0344504	0.04934519	0.14115638	0.13265328	4.09737966	2.03470158
IFITM1	7.22145444	4.40675271	29.4367513	26.4899932	4.07629121	2.02725712
KLRB1	1.41598993	1.18518225	5.77197548	5.36703836	4.07628287	2.02725417
P2RY8	0.43866363	0.25880378	1.78027054	1.24202792	4.05839559	2.0209095
PTPRCAP	5.41662037	2.85905598	21.975985	18.3436798	4.0571396	2.02046294
CD226	0.37003045	0.25081613	1.49931769	1.15000122	4.05187649	2.0185902
ATP8B2	0.60596485	0.27332635	2.44166588	1.31700613	4.02938531	2.01055977
COLGALT2	0.05646772	0.07363147	0.22562913	0.17966518	3.99571884	1.99845507
TTC22	0.04486629	0.04958631	0.17898917	0.1655503	3.98939071	1.99616842
AGMAT	0.0361667	0.03315411	0.14411137	0.12687322	3.98464208	1.99445014
PRKCQ-AS1	0.16788899	0.15662369	0.66798388	0.47453399	3.97872356	1.99230566
LBH	0.85005926	0.50414502	3.37966135	2.70079356	3.975795	1.99124337
FBXO2	0.0550411	0.07057308	0.21848637	0.22169054	3.96951305	1.98896204
RLTPR	0.24244317	0.16005776	0.960529	0.55748198	3.96187285	1.98618258
KLRC1	0.23663476	0.24832488	0.93401427	0.89705966	3.94707138	1.98078261
CD8B	0.72897788	0.66783745	2.87488879	4.56304921	3.9437257	1.97955921
STYK1	0.03147017	0.03473056	0.12406029	0.13150472	3.94215514	1.97898455
KIF5C	0.04894726	0.03674964	0.19185838	0.12231413	3.91969631	1.97074188
CAMK4	0.21973983	0.18357905	0.85551869	0.63192222	3.89332546	1.96100295
MMP25-AS1	0.05560631	0.05867038	0.2161528	0.17334478	3.88719942	1.95873112
TSPAN2	0.12084282	0.10278336	0.46932267	0.32102459	3.8837447	1.95744837
ACSL6	0.01975236	0.02059027	0.07667204	0.06555886	3.88166506	1.95667564
ZNF827	0.035277	0.04012171	0.13672889	0.08948125	3.875865	1.95451832
FBLN5	0.03794677	0.06475721	0.14702096	0.13906452	3.8743999	1.95397287
TMEM204	0.24178306	0.30375264	0.93564647	0.66402468	3.86977671	1.95225033
LAX1	0.25783866	0.18250264	0.99245159	0.6560089	3.84911859	1.94452812
ACAP1	1.34898719	0.5830828	5.18728771	3.31569001	3.84532023	1.94310375
TMEM156	0.10881392	0.11210414	0.41840614	0.34502073	3.84515286	1.94304095
ZEB1-AS1	0.03955245	0.04680333	0.15194255	0.16820219	3.84154603	1.94168704
NCALD	0.07039886	0.06207058	0.27039708	0.23601208	3.84092964	1.94145554
PLEKHG5	0.01002634	0.0087697	0.03844028	0.03810687	3.83393033	1.93882412
SGSM1	0.0080694	0.01014025	0.03078894	0.03153057	3.81551791	1.9318789
NCAM1	0.04574549	0.02904994	0.17292115	0.19548057	3.78007022	1.91841304
APOBEC3A	0.65706461	0.52206146	2.48011415	4.03350466	3.77453617	1.91629937
EPHA1	0.11120461	0.09984035	0.41800249	0.32008489	3.75885935	1.91029493
LTA	0.31520489	0.1552036	1.18449292	0.71371209	3.75785076	1.90990777

COL5A1	0.01602289	0.01569624	0.06019929	0.05394422	3.75708064	1.90961208
FAM101B	0.58628259	0.26114908	2.20210888	1.39618189	3.75605366	1.90921767
CXCR2P1	0.06542406	0.07573636	0.2443209	0.2462577	3.73441983	1.90088413
SSTR3	0.00612415	0.01486541	0.02280727	0.03270809	3.72415249	1.89691215
CYP4F22	0.08551523	0.08620908	0.31817293	0.30525505	3.72065798	1.89555778
ELOVL6	0.09385708	0.06607996	0.348751	0.26335227	3.71576647	1.89365983
LOC154761	0.0185711	0.02904502	0.06895376	0.08153508	3.71296073	1.89257006
TUBA4A	0.84189041	0.35620018	3.10125998	2.03166611	3.68368609	1.88115012
NSG1	0.06856452	0.05758959	0.25247101	0.19762139	3.68224014	1.88058371
CD3G	1.12502096	0.53067352	4.08665833	2.64659209	3.6325175	1.86096975
DBH-AS1	0.07050975	0.12656521	0.25529764	0.3061545	3.62074241	1.85628554
DBN1	0.11470086	0.06779829	0.41482816	0.31516499	3.61660908	1.85463766
FAM46C	0.29507411	0.15556224	1.06068523	0.97866591	3.59464009	1.84584733
N4BP3	0.01825153	0.02127704	0.06556282	0.04748349	3.59218231	1.84486057
PDE4D	0.11808432	0.07293656	0.4226314	0.66603932	3.57906469	1.83958262
LINC00925	0.01584895	0.02071602	0.05667167	0.05987595	3.57573707	1.83824066
ISG20	1.866629	1.17269357	6.66338167	5.93846024	3.56974078	1.83581932
PPP2R2B	0.14884785	0.11453296	0.52991096	0.39995987	3.56008479	1.83191116
C12orf75	0.46229674	0.27648179	1.64426444	1.32832964	3.55672949	1.83055125
FCRLA	0.0352016	0.05487839	0.12512878	0.16810151	3.55463341	1.82970078
CDCA7	0.21435516	0.17090411	0.76043616	0.63873375	3.54755233	1.82682397
WNT10A	0.05409377	0.06229101	0.19160545	0.20649424	3.5420983	1.82460425
PDZD4	0.05012555	0.07477157	0.176822	0.17375903	3.527582	1.81867962
PLCH2	0.06346079	0.05790378	0.22355141	0.15417743	3.52267002	1.81666934
KLRC4	0.19522675	0.27197722	0.6846136	0.69918703	3.50676126	1.81013922
SIRPG	0.2086567	0.15316721	0.72661699	0.89227475	3.48235631	1.80006383
SLC38A5	0.11492494	0.13405296	0.3990764	0.35927384	3.4724959	1.79597299
TESPA1	0.25051416	0.13264487	0.86921433	0.40980617	3.46972133	1.7948198
ADAM23	0.00527302	0.00979829	0.01826997	0.02941756	3.46480209	1.79277295
JAK3	0.69772626	0.36755739	2.41687125	1.4001124	3.46392474	1.79240759
HIP1R	0.12738629	0.07866755	0.44101966	0.30889946	3.46206526	1.79163292
PRKCQ	0.52660696	0.25327567	1.81582935	1.27471553	3.44816819	1.78583015
CSGALNACT1	0.17515043	0.10494953	0.60369735	0.37934846	3.44673636	1.78523095
PLEKHF1	0.35607182	0.18434126	1.22431929	1.03178791	3.43840552	1.7817397
TIGIT	0.2425286	0.1521917	0.83356488	0.61042886	3.43697558	1.7811396
CARD11	0.6564327	0.35796657	2.25172723	1.41466823	3.4302484	1.77831305
EMB	1.08584793	0.49483109	3.72404333	2.69849918	3.42961776	1.77804779
CRISPLD2	0.03825405	0.05854881	0.13103178	0.28357273	3.42530496	1.77623244
CCR4	0.60698852	0.34617919	2.07664375	1.05036075	3.4212241	1.77451261
GFI1	0.38896349	0.41205902	1.32843596	0.85300369	3.41532299	1.77202202
XCL2	0.713578	0.61616544	2.43478192	1.95989109	3.41207537	1.77064951
SMAD3	0.20074063	0.08746222	0.68128667	0.37155935	3.39386541	1.76292935
CD7	1.10361348	0.56399661	3.7423971	3.25572625	3.39103968	1.76172767
COL6A4P2	0.00175612	0.00274313	0.00594549	0.01029755	3.38557858	1.75940241
SH2D3A	0.13617628	0.0892588	0.45811055	0.30804702	3.36409952	1.75022038
SETBP1	0.03674734	0.03181047	0.12355491	0.10742386	3.36228163	1.74944057
DLL1	0.08283427	0.05916283	0.27844877	0.18669006	3.36151666	1.7491123
CST7	2.28043367	1.17936918	7.65867083	7.27650929	3.35842737	1.74778583
CLEC4C	0.03409192	0.05961784	0.11403395	0.18263081	3.3448964	1.74196153
CLU	1.09491427	0.92675546	3.6545465	3.38636348	3.33774671	1.73887448
APBB1	0.32263382	0.18307457	1.07183629	0.63741	3.32214493	1.73211501
LINC00649	0.0227895	0.02575476	0.07554683	0.09365628	3.3149846	1.72900217

PBX4	0.15977052	0.12556177	0.52886279	0.34955408	3.31014012	1.72689229
SPON1	0.01208359	0.0184528	0.03973529	0.04243113	3.28836879	1.71737211
TNFRSF18	0.26506475	0.23208728	0.87031052	0.58463104	3.28338839	1.71518542
SLC4A10	0.02437996	0.03711274	0.0795673	0.08354728	3.26363592	1.70648012
ANXA6	3.74399111	1.79979527	12.1962044	6.89605146	3.25754095	1.70378332
LOC643733	0.21554969	0.25770032	0.70013593	0.61219602	3.24814168	1.69961456
MSC	0.18619846	0.21367148	0.60470423	0.65413272	3.24763277	1.69938851
ENO2	0.302308	0.1907086	0.98161396	0.51480344	3.24706581	1.69913662
CCDC136	0.03855024	0.06067318	0.12421803	0.09573765	3.22223738	1.68806278
SLC25A23	0.10847643	0.07946255	0.34900248	0.25282204	3.21731155	1.68585565
SERPINE2	0.02958031	0.06722064	0.09513234	0.13720849	3.21606968	1.68529866
CD28	0.23378288	0.12680279	0.74945715	0.46381742	3.20578282	1.68067669
CCNJL	0.01485978	0.02718041	0.0475414	0.12233343	3.1993343	1.67777175
CHRM3-AS2	0.23272512	0.29856693	0.74013667	0.64898398	3.18030414	1.66916474
SEPT9	0.12800506	0.11301859	0.40617917	0.47943086	3.17314926	1.66591538
CLIC3	0.18823982	0.23398278	0.59693712	0.70790804	3.17115224	1.66500714
TJP3	0.09571566	0.09480448	0.3026382	0.44777852	3.16184635	1.66076726
CACNA1H	0.01498041	0.02302935	0.04716175	0.0520087	3.14822809	1.65454007
BCAS4	0.08345412	0.13836059	0.26179572	0.27285456	3.13700179	1.64938635
DYSF	0.70017288	0.62529777	2.19546688	2.55538791	3.13560686	1.64874468
LOC10050680	0.01938578	0.03440713	0.06065965	0.07801671	3.1290802	1.64573864
NKD1	0.02858302	0.03006352	0.08918835	0.06225418	3.120326	1.64169676
TCF7	0.47212193	0.33774568	1.47194321	0.99863797	3.11771839	1.64049062
NAP1L2	0.0266317	0.04190043	0.08298388	0.07431015	3.11598079	1.63968634
CD79B	0.23740863	0.33010865	0.73845196	0.76584044	3.11046801	1.63713167
CCDC88C	0.5276047	0.21687007	1.64007725	0.78175162	3.10853417	1.63623444
LOC10013087	0.02706225	0.02603038	0.08397626	0.08777153	3.10307774	1.63369984
WDR86	0.02587772	0.04953343	0.08016863	0.07873316	3.09797947	1.63132758
CD200R1	0.3662234	0.26050024	1.12816997	0.8150055	3.08055131	1.62318857
DFNB31	0.11525613	0.10296687	0.35482446	0.27885896	3.07857341	1.62226197
AUTS2	0.12932723	0.06927612	0.39494606	0.43444949	3.05385074	1.61062955
PCBP4	0.27185367	0.18231589	0.82352754	0.55373147	3.02930442	1.59898657
TSPAN18	0.07274613	0.10451338	0.21930032	0.14325373	3.01459749	1.59196539
HEATR9	0.03792178	0.07670678	0.11416291	0.12511652	3.01048408	1.58999549
MCTP2	0.07672615	0.05903166	0.23085391	0.29289462	3.00880373	1.58919
FOXP3	0.31953312	0.26422338	0.96093842	0.57223694	3.00732025	1.58847851
POU6F1	0.04881531	0.04412649	0.14674259	0.09805973	3.00607741	1.58788216
HPCAL4	0.03609313	0.04837016	0.10817677	0.09968698	2.99715655	1.58359444
MIR4697HG	0.01579697	0.03170966	0.04717483	0.05390425	2.98632124	1.57836936
FAM102A	1.76773444	0.44226258	5.27488833	2.7079443	2.98398232	1.57723899
FCRL3	0.06228304	0.10141139	0.18546046	0.21613692	2.97770398	1.57420034
TENM1	0.00722396	0.00673581	0.02149217	0.0342498	2.97512193	1.5729488
CERS4	0.22996662	0.15053462	0.6841234	0.61692933	2.97488131	1.57283211
HAPLN3	0.41689785	0.26330677	1.23991555	0.8354498	2.97414716	1.57247603
EBF4	0.0405322	0.04630123	0.11989052	0.10302997	2.95790784	1.5645771
PTPN7	1.3222127	0.64319913	3.87884167	2.41586074	2.93359885	1.55267161
SDR42E1	0.02456963	0.04252015	0.07182567	0.07936132	2.92335179	1.54762345
S1PR1	0.38294896	0.29714371	1.11935417	0.57828583	2.9229853	1.54744257
TMEM40	0.02449595	0.05287435	0.0714256	0.11800835	2.91581283	1.54389812
TSHZ2	0.01228961	0.01172347	0.0357615	0.03222828	2.90989796	1.54096857
LPAL2	0.03747358	0.04815782	0.10864591	0.10460434	2.89926708	1.53568824
PTPRS	0.02868709	0.01873398	0.08310196	0.10877979	2.89684205	1.53448102

TNS4	0.01695509	0.0229679	0.04903551	0.06084209	2.89208223	1.53210857
SYTL2	0.44735774	0.26560362	1.29333119	0.82006339	2.89104462	1.53159087
CCDC102A	0.04052384	0.04464346	0.11700054	0.10259358	2.88720295	1.52967252
IL21R	0.38041284	0.19740585	1.09774415	0.88564273	2.88566532	1.52890399
NMUR1	0.03092917	0.03825942	0.08911689	0.12816369	2.88132215	1.52673097
EMBP1	0.03787995	0.02956801	0.1090752	0.07687148	2.87949691	1.52581678
INADL	0.08247741	0.09822928	0.2368248	0.14809127	2.87138986	1.52174923
KIAA1671	0.15846637	0.08260365	0.45287506	0.35180523	2.85786219	1.51493635
LOC400685	0.01601684	0.03468352	0.04564853	0.05678711	2.85003236	1.5109783
LIMD2	1.11695178	0.66457705	3.17070688	2.02041784	2.8387142	1.50523761
NFATC2	0.89360696	0.71163934	2.53301271	1.7592797	2.83459375	1.50314198
CD244	0.42179933	0.34093589	1.19550621	0.89096596	2.8343009	1.50299293
BAIAP3	0.11669527	0.11172962	0.33073068	0.39949913	2.83413954	1.50291079
ITGB2-AS1	0.44902764	0.32027569	1.27082086	0.79455693	2.83016174	1.50088451
CD27	0.65682685	0.37437332	1.84239256	2.4366357	2.80498971	1.48799548
CLUHP3	0.30921703	0.26702114	0.86414894	0.54293181	2.79463569	1.48266023
PTPRN2	0.08893891	0.09556735	0.2484239	0.21261572	2.79319719	1.48191742
PRDM8	0.1654406	0.10564567	0.46148731	0.62924146	2.7894442	1.47997769
CCDC64	0.39067394	0.16362745	1.08816244	0.60574746	2.7853469	1.47785702
CPNE5	0.04299756	0.06352657	0.11952232	0.13678794	2.77974661	1.47495338
ZNF80	0.04644322	0.08391626	0.12753625	0.15306381	2.7460684	1.45736756
DMPK	0.16936178	0.10917803	0.4640576	0.34048649	2.74003738	1.45419558
RTKN2	0.03881399	0.0346793	0.10633191	0.0799435	2.73952556	1.45392606
CD48	10.0695819	3.84124875	27.4768915	17.31014	2.72870233	1.44821502
DMTN	0.28427616	0.18313198	0.77563695	0.54535276	2.72846284	1.44808839
DTHD1	0.12415864	0.11688699	0.33674395	0.36170743	2.71220721	1.4394674
EEF1A2	0.03704965	0.06220734	0.10034144	0.13988339	2.70829648	1.43738568
LINC00954	0.03240364	0.03669973	0.08771149	0.0943681	2.706841	1.43661015
ASB2	0.20090225	0.1515951	0.54357663	0.44820528	2.70567721	1.43598973
CASS4	0.53870174	0.36720352	1.4536521	1.17236927	2.69843588	1.43212341
C12orf79	0.0284329	0.05392332	0.07665396	0.0746472	2.69595983	1.430799
SPNS3	0.06932108	0.08487194	0.18645627	0.18643561	2.68974859	1.42747133
SLC43A1	0.11767332	0.11935343	0.31582566	0.21857969	2.68391898	1.42434112
CACNA1I	0.01600327	0.02297395	0.04282316	0.03103809	2.67590098	1.42002473
TOX	0.15306841	0.10636992	0.40889573	0.27025189	2.67132669	1.41755642
SLC35F2	0.11384937	0.08267288	0.30373742	0.21472384	2.66788839	1.41569831
ADGRG1	0.17166716	0.16151968	0.45729878	0.45881996	2.66386881	1.41352303
NAP1L3	0.0153954	0.0291954	0.04088805	0.04407974	2.65586183	1.40918009
SLAIN1	0.15947497	0.10400403	0.4223444	0.32867344	2.6483429	1.40508993
ARL4C	2.08156267	1.12657569	5.50154875	2.95371009	2.64298973	1.40217082
FXVD2	0.54848679	0.71750356	1.44953277	1.70215054	2.64278518	1.40205916
IL5RA	0.08924663	0.0921949	0.23532822	0.2352464	2.63683031	1.39880473
CLC	0.55131416	0.567989	1.45036188	1.61712584	2.63073577	1.39546635
CD5	2.18610974	0.88931408	5.74735604	3.15276346	2.62903364	1.3945326
GDF11	0.10614937	0.06567631	0.27801392	0.21297156	2.6190822	1.38906134
RAB33A	0.18234482	0.15993335	0.47720243	0.49781925	2.61703316	1.38793221
RASGRF2	0.03461962	0.03590781	0.09058101	0.07474551	2.61646432	1.38761858
IRS1	0.0110539	0.01571836	0.0288943	0.02842126	2.61394655	1.38622964
FLT4	0.01025574	0.01416707	0.02678337	0.03144409	2.6115505	1.3849066
TRIB2	0.75906563	0.37110423	1.97890321	0.99784246	2.60702518	1.38240452
OLFM2	0.092578	0.10394329	0.24013393	0.35349954	2.59385533	1.37509802
SLC37A3	0.14111793	0.10593579	0.36536265	0.16095365	2.58905907	1.37242788

SYNM	0.07949752	0.07264728	0.2054519	0.21094145	2.58438137	1.36981898
DLG3	0.15220213	0.12903765	0.39227391	0.28401094	2.57732214	1.36587287
GPER1	0.04216921	0.04194256	0.10847762	0.16125591	2.57243665	1.36313555
ADAM8	1.27337619	0.55409827	3.26426463	2.7386001	2.56347234	1.35809933
CDK6	0.29013412	0.13922668	0.74346396	0.34120949	2.5624837	1.35754283
AXIN2	0.03722795	0.05145149	0.09436225	0.0781392	2.53471532	1.34182372
C1orf186	0.05254334	0.08944489	0.13298466	0.1322741	2.53095154	1.33967988
ADGRG5	0.15959363	0.11782115	0.40353297	0.29234543	2.52850304	1.33828352
NCR3	0.44820557	0.30617448	1.12458202	0.86344911	2.5090764	1.3271564
FCMR	0.5243616	0.38648909	1.31355013	1.18401346	2.50504637	1.32483731
SLC23A3	0.04942102	0.05654743	0.12352119	0.11302752	2.49936579	1.32156206
CMKLR1	1.02478519	0.70876937	2.56000673	2.44755617	2.49809108	1.32082608
KLRG1	0.23764299	0.16799946	0.59297505	0.54892094	2.49523482	1.31917559
CD6	3.3172	1.07449443	8.27146063	5.05490091	2.49350676	1.31817611
HOOK1	0.03459511	0.03879681	0.08625781	0.0705635	2.49335258	1.31808691
FBXL16	0.10862906	0.07745607	0.27002811	0.17313242	2.48578161	1.31369955
P2RX5	0.24033473	0.20385588	0.59731431	0.46899009	2.48534331	1.31344515
PXN	1.2549357	0.50862723	3.11516121	1.7702958	2.48232734	1.31169337
FAM160A1	0.01028061	0.02737308	0.02548551	0.03066236	2.47898913	1.30975195
TTC16	0.12306715	0.08648881	0.30436677	0.34589133	2.47317639	1.30636514
CCR7	1.02770485	0.64715393	2.53652283	2.08609066	2.46814329	1.30342615
CCDC65	0.22610662	0.17899629	0.55757829	0.42512887	2.46599717	1.30217114
ANKRD33B	0.05146706	0.03508368	0.12643279	0.11079024	2.45657682	1.29664935
LTK	0.05867726	0.05259314	0.14377786	0.1415795	2.45031653	1.29296813
SLC9A9	0.21018932	0.11321564	0.51495419	0.30422952	2.44995413	1.29275474
PLXNA4	0.01467942	0.01490197	0.03586052	0.0386018	2.4429119	1.28860183
NINL	0.04435845	0.04025859	0.10832955	0.08059538	2.44213993	1.28814587
CMTM8	0.07948395	0.09580193	0.19356136	0.18769916	2.43522579	1.28405554
SERPINB9P1	0.19091561	0.23352432	0.46254853	0.45823487	2.42279056	1.2766697
GAMT	0.12184117	0.14526363	0.29295311	0.29651219	2.40438514	1.26566801
NTNG2	0.06368392	0.04816471	0.15293038	0.14008051	2.40139734	1.26387413
TTC9	0.10780293	0.07257221	0.25855078	0.14828959	2.39836503	1.26205125
SLC4A4	0.0148127	0.02048243	0.03544323	0.04352531	2.3927598	1.25867558
LOC10192924	0.05116596	0.10058345	0.12214369	0.15436688	2.3872063	1.25532325
ANK3	0.11969637	0.06873071	0.28561401	0.15182092	2.38615421	1.25468728
HKDC1	0.01280623	0.02077655	0.03055337	0.05623827	2.38582174	1.25448625
FAM167A	0.03100621	0.03743461	0.07381443	0.062495	2.38063372	1.25134567
PVRIG	0.26986977	0.14242581	0.64199938	0.61675957	2.37892286	1.25030849
SLAMF6	1.59495167	0.69150016	3.78577671	2.08591924	2.37359964	1.24707662
LOC10192815	0.03577543	0.03720442	0.08482202	0.07163632	2.37095741	1.24546975
EGLN3	0.06528754	0.08615536	0.15453955	0.12530595	2.36706053	1.2430966
GAREML	0.02614336	0.02668419	0.06178742	0.07017852	2.36340815	1.2408688
REM2	0.05351363	0.04824688	0.12645042	0.1260638	2.36295728	1.24059355
SLC40A1	0.7803033	0.76961815	1.84092521	2.20351421	2.35924315	1.23832412
EIF4E3	0.50327456	0.24733865	1.18714065	0.63659699	2.35883303	1.2380733
PHLDB2	0.02675157	0.08215181	0.06302245	0.09256898	2.35584087	1.23624209
TRERF1	0.39752246	0.35084648	0.93485998	0.61696315	2.35171613	1.23371393
PRR7	0.08845519	0.10556503	0.20799188	0.26769509	2.3513813	1.23350851
WDR86-AS1	0.6601319	0.70099489	1.55143085	1.28452069	2.35018314	1.23277319
CD3D	4.93680807	2.98757235	11.5795185	7.15250205	2.34554764	1.22992481
RRAS2	0.20817288	0.11272004	0.48648627	0.27011663	2.33693398	1.22461698
RNF207	0.06006301	0.05801897	0.1397065	0.09014941	2.32599915	1.21785057

MAP3K7CL	3.24311204	2.11248428	7.51635383	5.28792365	2.31763619	1.21265412
SPON2	0.16122742	0.1460998	0.37319683	0.38053102	2.31472316	1.21083966
LTB	4.17285	1.57967202	9.64055729	6.11917292	2.31030526	1.20808349
SYNE1	0.3747044	0.12112065	0.86534281	0.38762724	2.30940126	1.20751886
TESC	0.37891292	0.35430374	0.8678816	0.62681075	2.29045132	1.1956319
FBLN7	0.07350078	0.082288	0.1677041	0.18565628	2.28166435	1.19008657
ATP2A3	1.68001111	0.75384891	3.82609479	2.14859819	2.27742231	1.18740184
GPR132	0.65888526	0.36680859	1.49994475	0.94918886	2.27648855	1.18681021
GCH1	2.27851026	0.82284988	5.17747875	3.2508429	2.27230873	1.18415886
MBOAT2	0.04959634	0.03746227	0.11259	0.10424198	2.27012707	1.18277306
RAB37	0.62100096	0.27705658	1.40697473	0.94205255	2.26565628	1.17992901
SLC25A53	0.03372933	0.02594971	0.07622123	0.05135747	2.25979101	1.17618936
GUCY1A3	0.02861054	0.04892251	0.06452429	0.07650182	2.25526293	1.17329564
TLR10	0.1335073	0.09424081	0.30074587	0.17296852	2.25265477	1.17162623
GNG7	0.05743702	0.04023967	0.12926389	0.11466008	2.25053285	1.17026662
KLRC2	0.14823007	0.35744184	0.33208037	0.35260023	2.24030359	1.16369425
RASSF2	1.78959763	1.11326779	4.00156271	2.82743745	2.23601252	1.16092827
ST6GAL1	1.9373343	0.72018613	4.32762896	1.91573492	2.23380599	1.15950389
ISM1	0.01132024	0.0283459	0.02523107	0.04515151	2.22884457	1.15629602
FAM95C	0.02275434	0.04311358	0.05041153	0.06356438	2.21546871	1.14761195
CORO1A	10.6809904	4.76493113	23.6603167	12.3533048	2.21518004	1.14742396
SELL	1.74481763	1.02143751	3.86401771	4.7732997	2.21456824	1.14702545
ARID5B	0.52428189	0.46870356	1.1607021	0.79570713	2.21388938	1.14658314
SCN1B	0.09200811	0.12261822	0.20368487	0.33537118	2.21377092	1.14650594
DPY19L2P2	0.04966863	0.05995146	0.10966549	0.08546187	2.20794254	1.14270263
MSRB3	0.01464345	0.02535769	0.0322609	0.03644478	2.20309495	1.13953167
SBK1	0.09616281	0.05960629	0.21070073	0.11089411	2.19108332	1.13164435
GIMAP7	2.63688196	0.90376375	5.77656229	2.95729633	2.19067913	1.13137819
LRFN3	0.17678677	0.14347375	0.38669703	0.27609418	2.18736409	1.12919338
CD200	0.03478999	0.03849137	0.07601902	0.08090631	2.18508304	1.12768811
TRAF1	1.69899693	0.40737963	3.7115525	1.75356728	2.18455516	1.12733953
SRGAP3	0.09801271	0.06245456	0.2140021	0.14757535	2.18341172	1.1265842
FZD3	0.00926705	0.00920008	0.02021252	0.0182394	2.18111725	1.12506733
SULF2	0.55021093	0.4299658	1.19550113	1.31266647	2.17280514	1.11955879
BIK	0.24496181	0.23458865	0.52696322	0.40921498	2.1512056	1.10514541
HDC	0.06795253	0.08221898	0.14578279	0.17184661	2.14536207	1.10122115
OSBPL7	0.2249644	0.12248101	0.48121007	0.27118854	2.13904984	1.0969701
PAX5	0.04729766	0.03777696	0.10115362	0.07338818	2.13865988	1.09670707
SERPINB9	1.22540437	0.50931493	2.61848248	1.83467205	2.13683135	1.09547305
IGSF9B	0.02417809	0.03190372	0.05138438	0.04335854	2.12524536	1.08762941
PTP4A3	0.09033684	0.06657297	0.19190629	0.16523083	2.1243415	1.08701571
SLC2A1	0.6790195	0.28720092	1.43588871	0.77852915	2.11465017	1.08041902
HLA-DOB	0.66276096	0.64961629	1.39963421	0.76847487	2.11182355	1.0784893
TMEM154	0.64894144	0.31239566	1.35367248	1.62617738	2.08597015	1.06071851
FLT3LG	2.72666296	1.19057547	5.6822975	2.69819186	2.08397502	1.05933798
ALS2CL	0.0389801	0.06265787	0.08095154	0.09899364	2.07674032	1.05432083
EPS8L2	0.16520804	0.12345878	0.34240591	0.28783926	2.07257415	1.05142372
JHDM1D-AS1	0.10288134	0.09199007	0.21314594	0.16278214	2.07176477	1.05086021
LOC729683	0.16219821	0.12405772	0.33589108	0.23968832	2.07086802	1.05023561
OBSCN	0.09198895	0.02426338	0.19013197	0.07462494	2.06690002	1.04746861
AMPD3	0.70883607	0.34482666	1.46270113	1.10255952	2.06352523	1.04511108
LOC374443	0.73768693	0.37351423	1.52218196	0.80179757	2.06345254	1.04506025

DERL3	0.16662125	0.13935474	0.34294442	0.27372106	2.05822738	1.04140237
MT3	0.03969541	0.14303172	0.08167288	0.16905389	2.05748933	1.04088495
ZNRF1	0.32621327	0.13982044	0.66863813	0.36380089	2.04969625	1.03541013
SPIB	0.11474514	0.09315168	0.23495112	0.28188319	2.04759099	1.03392757
SIDT1	0.2058138	0.14934203	0.42079399	0.23617989	2.04453731	1.03177439
SEMA4C	0.12288726	0.13713975	0.25057691	0.18442772	2.03907961	1.0279181
FYN	2.48138667	0.92411957	5.04960792	3.01457292	2.03499438	1.02502481
CHIC1	0.09688618	0.03998696	0.19689279	0.12042017	2.03220717	1.02304749
CHST2	0.17531402	0.11941936	0.35402625	0.38558139	2.01938358	1.01391497
AFAP1	0.2350549	0.11828357	0.47376075	0.21758553	2.01553236	1.01116095
MYCL	0.23346412	0.20059441	0.46962585	0.30715799	2.01155469	1.00831096
TMEM25	0.07570315	0.08127828	0.15195045	0.11776545	2.00718797	1.00517573
KIAA1324L	0.04153852	0.03408695	0.0833259	0.08140681	2.0059912	1.00431528
FAM65B	2.02677196	1.04937817	4.03674396	2.38789833	1.99171097	0.99400831
CXCR5	0.09800537	0.09479189	0.19500579	0.20786357	1.98974603	0.9925843
MARCKSL1	0.90755604	0.36676721	1.80277163	1.14761963	1.98640255	0.99015802
PLCG1	2.11556889	0.41820909	4.20132833	1.64331956	1.98590949	0.98979987
SKAP1	2.15774585	2.0262624	4.28355875	2.60774869	1.98520078	0.98928493
KIAA1324	0.1660467	0.08589312	0.32938974	0.37211279	1.98371741	0.98820652
OXCT1	0.27899359	0.23130685	0.55244079	0.35903295	1.98012002	0.98558788
TRAF5	1.14664007	0.34388	2.26313583	0.85638816	1.97371074	0.98091057
SLC12A3	0.01575949	0.02737507	0.03109861	0.03776071	1.97332654	0.98062971
C1orf21	0.06175243	0.04720858	0.12184676	0.0940798	1.97314919	0.98050004
LRRC4	0.13983063	0.14529404	0.27565647	0.2428525	1.97135967	0.97919101
FRMD3	0.27894925	0.22874966	0.54958507	0.39734971	1.97019733	0.97834014
NLGN2	0.04473264	0.03722419	0.0878735	0.06942942	1.96441578	0.97410031
NPTXR	0.07661486	0.06891019	0.14846388	0.08970218	1.93779501	0.95441597
PRKCB	1.10437752	0.86901245	2.13548967	1.31220002	1.93365913	0.95133349
STMN3	0.8831633	0.34380194	1.70376548	0.86419427	1.92916246	0.94797464
NT5E	0.024336	0.02631373	0.04676439	0.05709717	1.92161345	0.94231816
LGALS2	2.6389953	1.73510289	5.06835788	3.80776861	1.92056344	0.94152962
CDH24	0.03371071	0.03317382	0.06471954	0.06733567	1.9198511	0.94099442
ARHGEF4	0.02843881	0.0402067	0.05457531	0.05493719	1.91904352	0.94038743
LOC389906	0.1229071	0.09628612	0.23485502	0.17712509	1.91083365	0.93420219
PNMA3	0.10902036	0.08870588	0.20789424	0.12379587	1.90693053	0.93125229
TPCN1	0.55034852	0.29810653	1.04904317	0.87150862	1.90614335	0.93065662
RNF157	0.37847373	0.30972125	0.72084567	0.51042365	1.90461213	0.92949723
LOC606724	0.52499364	0.41537114	0.99979036	0.7653536	1.90438564	0.92932566
FAM171A1	0.02248932	0.0327384	0.04274161	0.05711674	1.90052883	0.92640091
GPSM1	0.10620743	0.08591377	0.20125165	0.13396379	1.89489246	0.92211597
PROB1	0.04573309	0.05528607	0.08664323	0.06854515	1.89454124	0.92184854
ZNF853	0.0932672	0.0760426	0.17659931	0.17645873	1.89347724	0.92103808
FAM169A	0.07646435	0.05289691	0.14476502	0.10311907	1.89323544	0.92085383
ADAMTS10	0.03563491	0.04921477	0.06743927	0.05977811	1.89250583	0.92029775
TNFRSF4	0.21233202	0.16153823	0.4016752	0.3685457	1.89173168	0.91970748
TNK1	0.07784576	0.06905724	0.14724074	0.12060613	1.89144195	0.9194865
LSR	0.29521377	0.27217984	0.5573224	0.32372322	1.88786046	0.91675213
TRABD2A	0.44342485	0.24663038	0.83450446	0.39490829	1.8819524	0.91223014
TMEM30B	0.04036486	0.04352372	0.07586792	0.08748057	1.87955341	0.91038991
MTSS1	0.32808463	0.1772025	0.61419783	0.39798662	1.87207134	0.90463542
GPR68	0.70282327	0.98239401	1.31519127	0.99373435	1.87129729	0.90403877
LINC01215	0.13923242	0.08757691	0.26037924	0.13769572	1.87010498	0.90311926

NLRC5	4.76146852	1.31855288	8.89505604	3.19303275	1.86813291	0.9015971
LRR32	0.03202325	0.0450615	0.05956393	0.06477175	1.86002139	0.89531921
PLCD4	0.08234613	0.07264844	0.15289728	0.08315003	1.8567634	0.89278999
FAM26F	7.07932593	4.3545269	13.0844319	8.98940378	1.84825957	0.88616738
TRAF4	0.34813334	0.16609747	0.64117342	0.48480577	1.84174663	0.8810746
GPR141	0.52515405	0.57792703	0.96376317	1.01996119	1.83520087	0.87593798
PLEKHG1	0.08309864	0.1352493	0.15242122	0.09262883	1.83422036	0.87516697
RNF144A	0.06818007	0.04803902	0.12503103	0.08512135	1.83383552	0.87486424
GALNT3	0.26318132	0.16420665	0.48259412	0.31318005	1.83369445	0.87475326
LIME1	2.11385882	0.7104974	3.8725454	1.98708287	1.83197921	0.87340313
MS4A2	0.07186114	0.09953619	0.13082469	0.14462549	1.82052066	0.86435111
MAP1A	0.13769537	0.08350321	0.25027203	0.19769889	1.81757765	0.862017
GIMAP5	2.55884631	1.28131007	4.63672479	2.43963547	1.81203724	0.8576126
DUSP2	1.75593296	0.41801842	3.16727131	2.76863596	1.80375412	0.85100269
LAMA5	0.0284118	0.02343844	0.05118515	0.03791763	1.80154515	0.84923481
LIPE	0.07550747	0.08364378	0.13592725	0.09043872	1.80018281	0.84814342
CCSER1	0.03318468	0.03544891	0.05957651	0.06099323	1.79530172	0.84422632
ITPR3	1.24688859	0.58637845	2.23807377	0.81990947	1.79492682	0.84392502
CDC14A	1.0168307	0.33180546	1.8249915	0.70783526	1.79478402	0.84381025
STK26	0.79197752	0.39691355	1.41841644	0.76309397	1.79098068	0.84074978
MPP6	0.03166178	0.02947825	0.05664662	0.04153364	1.78911664	0.83924745
RHOF	2.67063511	1.68783904	4.76909833	1.87600122	1.78575438	0.83653366
ZG16B	0.92170343	0.62226502	1.64151552	1.20077411	1.78095846	0.83265387
FAM117A	1.25783552	0.40335474	2.22907046	0.90927688	1.77214781	0.82549894
HCG26	0.81353667	0.52863605	1.43867323	0.77273143	1.76841842	0.82245967
PSD	0.10378465	0.06810173	0.18336729	0.12811866	1.7668055	0.82114323
GSDMB	0.60369033	0.22787568	1.06075956	0.68659778	1.75712531	0.81321708
CHD3	2.26193074	0.69237553	3.97240792	1.44872281	1.75620228	0.81245902
MYBL1	0.26544496	0.11025873	0.4643725	0.23247178	1.74941161	0.80686977
KLF12	0.30934174	0.1333942	0.53945008	0.23322613	1.74386451	0.80228795
GRAP	0.60383404	0.22629668	1.04398767	0.50495597	1.72893147	0.78988068
LOC10099632	0.0735707	0.1876169	0.12673591	0.24319553	1.72264094	0.78462202
PITPNM2	0.07961475	0.04142928	0.13687537	0.08244296	1.7192213	0.78175526
OCIAD2	1.9678097	1.0743713	3.37754302	1.90515924	1.71639718	0.77938343
RARRES3	21.4004689	9.09805835	36.4257229	21.0975077	1.70209929	0.7673152
ISYNA1	0.28343587	0.15207978	0.48100178	0.29011811	1.69703917	0.76301986
ADA	1.29641648	0.5634959	2.19784108	1.27787501	1.69532023	0.76155781
MYLK	0.10338628	0.13179356	0.17478548	0.13070259	1.69060611	0.75754057
IGFBP4	0.3564289	0.31457627	0.60190765	0.39680793	1.68871729	0.75592783
SYNE3	0.97506815	0.48113258	1.63910627	0.64020582	1.68101714	0.74933444
CUBN	0.04470296	0.02075317	0.0750324	0.04447798	1.6784661	0.7471434
LMTK3	0.03940919	0.03508499	0.06588214	0.05418806	1.67174575	0.74135545
GRASP	0.33980559	0.24345393	0.56787162	0.51189407	1.67116621	0.74085522
TSPAN13	0.84802594	0.9275275	1.41607919	1.10629666	1.66985362	0.73972164
AMPH	0.02039701	0.02449961	0.03384589	0.03490323	1.6593552	0.73062275
PATL2	0.79448963	0.27922977	1.31574246	0.60199901	1.65608513	0.72777683
CRACR2A	0.65067782	0.20697202	1.07611017	0.55924127	1.6538295	0.72581051
RUNX3	4.13797889	2.25725167	6.82500125	2.99243299	1.64935623	0.72190303
SYNJ2	0.1959212	0.16863351	0.32291708	0.14362005	1.64819872	0.7208902
LOC606724	0.10175519	0.14593207	0.16671639	0.26725219	1.63840678	0.71229359
HMHA1	4.62585407	1.20218879	7.57656688	2.24237935	1.63787416	0.71182452
FZD6	0.09710999	0.10502974	0.15857204	0.12399445	1.63291171	0.70744678

CARNS1	0.07272736	0.06971375	0.11872773	0.07365743	1.63250427	0.70708676
RASAL3	3.09933037	0.70301508	5.045105	2.02085784	1.62780485	0.70292775
PLXNC1	1.67394578	1.10589979	2.71634744	2.37411373	1.62272128	0.69841522
GDPD5	0.99321552	0.39475804	1.60443738	0.75616104	1.61539701	0.69188877
RAB15	0.17466787	0.12388204	0.28214762	0.14310467	1.61533783	0.69183592
SPEF2	0.31837107	0.1771016	0.51209721	0.31991616	1.60849163	0.68570843
CERKL	0.87138048	0.74259418	1.40104435	0.75702406	1.60784455	0.68512793
ASAP2	0.06669471	0.06278007	0.1072251	0.0767738	1.60770018	0.68499838
DCANP1	0.24031113	0.20594567	0.38435985	0.35135076	1.5994259	0.67755415
TMEM63C	0.06856888	0.11470502	0.10853512	0.14489916	1.58286256	0.66253599
BCL9L	1.33785141	0.42240817	2.11750792	0.75445823	1.58276764	0.66244948
GCSAM	0.27315429	0.14723625	0.42894081	0.23180501	1.57032428	0.65106252
BZRAP1	0.27177237	0.09932988	0.4250975	0.21197822	1.56416747	0.64539499
CD160	0.13690192	0.16004664	0.21388544	0.17706397	1.56232606	0.64369558
FCRL6	1.14877593	0.63940683	1.79399148	1.01166138	1.56165484	0.64307562
PSTPIP1	3.61739148	1.88136336	5.6270275	2.49835243	1.55554839	0.63742328
C1QTNF6	0.22896139	0.12504648	0.35579124	0.22446096	1.55393553	0.63592665
GOLGA2P5	0.40221348	0.2468785	0.62372943	0.40438382	1.55074222	0.63295888
MEI1	0.33555719	0.17686777	0.51897619	0.23333434	1.54661027	0.6291097
POU2F2	0.53010274	0.20930257	0.81784696	0.47254121	1.54280839	0.6255589
AKNA	5.72413667	1.30859221	8.8130975	2.71533221	1.53963786	0.62259105
LRIG1	0.87224241	0.34074454	1.33990802	0.70919665	1.53616473	0.61933293
SPTBN1	0.87166822	0.3322714	1.33456867	0.55487594	1.53105119	0.61452252
MARCH9	0.82930444	0.36926971	1.2669864	0.57237647	1.52776993	0.61142731
PRR5	0.63133278	0.34559156	0.95724369	0.48739497	1.51622682	0.60048559
LOC728743	0.56376607	0.23777456	0.83900554	0.37968195	1.48821573	0.57358368
MEGF6	0.25209734	0.1513084	0.37437556	0.19910821	1.48504369	0.57050537
NMT2	1.08069956	0.48643758	1.599565	0.63288519	1.48011998	0.56571412
ITGA4	7.32204889	4.42840804	10.82484	4.59413485	1.47838947	0.56402639
ADHFE1	0.54439539	0.27349468	0.80431447	0.56279641	1.4774454	0.56310481
SLC22A23	0.20898473	0.12536292	0.30814882	0.2040122	1.47450401	0.56022974
RCSL1	4.6572863	1.80972179	6.78959521	2.92305503	1.45784364	0.54383599
SSBP2	0.27372995	0.1273839	0.39902235	0.15482249	1.45772266	0.54371627
CCL28	0.35432497	0.4487661	0.51621029	0.35837379	1.45688375	0.54288576
VILL	1.20554311	0.36752944	1.73908604	0.61444613	1.44257474	0.52864607
PIK3IP1	7.54400889	1.94489093	10.8801952	3.20697334	1.4422299	0.52830116
TMEM71	1.084578	0.3759032	1.55553392	1.07735841	1.43422964	0.52027604
BNIP3	1.1508893	0.75261448	1.64788594	0.90869499	1.43183705	0.51786732
GPR35	0.75990548	0.53648926	1.08673471	0.7868956	1.43009195	0.51610791
PLD6	0.28552406	0.15755366	0.40690917	0.17191872	1.42513095	0.51109449
PRR5L	1.14021119	0.74996361	1.62388763	0.72206583	1.424199	0.51015074
TIFAB	0.53568632	0.43587268	0.76257754	0.5279458	1.4235524	0.50949559
ACPP	0.1702926	0.21634195	0.24201792	0.20570386	1.42118876	0.50709818
ATHL1	2.21141448	0.91348994	3.12947167	1.58368502	1.41514478	0.50094966
RAB3IP	0.18023782	0.06102083	0.25423295	0.08629673	1.4105417	0.49624932
LMO7	0.15583743	0.09107391	0.21963471	0.0976285	1.40938351	0.49506424
ANXA2R	1.11347315	0.76714379	1.56488269	0.84735049	1.40540676	0.49098774
MLLT3	0.51832659	0.24906803	0.727836	0.28982306	1.40420347	0.489752
PHLDB3	0.26735762	0.15114674	0.37366927	0.21261532	1.39763839	0.48299114
NBEAL2	4.9399463	1.41168328	6.86297083	2.02307943	1.38928045	0.47433787
LRRK2	1.6406287	0.45831201	2.27356498	1.06086317	1.38578886	0.47070746
RBM38	2.98938667	1.03768002	4.12882688	1.5325885	1.38116187	0.46588241

FGL2	9.19228	8.24836579	12.6915988	7.29237874	1.38068017	0.46537917
MSI2	1.4138113	0.4913567	1.95122985	0.62369133	1.38012043	0.46479416
OTUD7B	0.16964529	0.08698034	0.23406265	0.1056937	1.37971797	0.4643734
NT5DC2	0.39529553	0.28131686	0.54375417	0.37187877	1.37556368	0.46002293
MAP3K9	0.0978319	0.05508968	0.13390797	0.06176811	1.36875573	0.45286501
KIAA0125	0.01424063	0.03223041	0.01935032	0.02032486	1.35881122	0.44234503
PIK3CD	9.55905296	2.06679002	12.9102288	3.97890932	1.35057613	0.43357496
SATB1	1.5126533	0.43836756	2.0393379	0.92666136	1.34818593	0.43101948
C10orf95	0.40180437	0.33369536	0.53990993	0.38126986	1.34371345	0.42622552
CBFA2T3	0.35383163	0.3114358	0.47282713	0.25503582	1.33630544	0.4182498
CCR2	2.7709177	2.51695555	3.69541319	1.95732473	1.33364235	0.41537182
SIGIRR	3.49577222	1.61869294	4.65379146	1.93008205	1.33126278	0.41279538
AHDC1	0.34600887	0.1096694	0.45786531	0.14143151	1.32327621	0.40411423
REC8	2.57648419	0.94581551	3.40803021	1.43555265	1.32274447	0.40353439
PDZD2	0.0230955	0.02060231	0.03048888	0.02049892	1.32012199	0.40067126
KDM7A	1.10916744	0.35324867	1.45918223	0.55657857	1.31556533	0.39568289
TCAF2P1	0.00822319	0.02654042	0.0107935	0.01841393	1.31256812	0.3923923
GATS	0.77167411	0.21562139	1.01043346	0.33629812	1.30940438	0.38891071
VAMP1	1.541594	0.8508778	2.0141954	0.78097054	1.30656671	0.38578078
FAM118A	1.21514341	1.1056333	1.58469213	0.90217823	1.30411943	0.38307599
SARDH	0.27780516	0.45494392	0.36228639	0.34084501	1.30410247	0.38305723
ZFPM1	0.32152124	0.15253713	0.41809344	0.18685055	1.30036025	0.37891136
XYLT1	0.48547763	0.54234578	0.62989663	0.24036466	1.29747816	0.37571025
DGKA	4.99517222	1.21963267	6.47895333	1.77828797	1.29704303	0.37522635
FUT7	0.33804859	0.2862798	0.43107748	0.25572499	1.27519386	0.35071659
B3GNT9	0.32328052	0.17348354	0.41220794	0.21874534	1.2750782	0.35058573
EVA1C	0.73309656	0.28964612	0.92807325	0.36106646	1.26596318	0.34023545
TNFRSF1B	17.0446222	4.19253818	21.4212813	12.1218922	1.25677654	0.32972815
SIGLEC10	3.58670593	1.72795871	4.48615269	2.77117932	1.25077237	0.32281926
TNKS1BP1	0.36898547	0.09833374	0.46123581	0.18695464	1.25001077	0.32194053
LAT	9.7780037	4.62858361	12.0992721	5.03241009	1.23739696	0.3073084
METTL7A	4.03122148	1.15933712	4.98170646	1.56332641	1.23578089	0.30542297
FAM198B	1.09161926	1.11615427	1.34882658	0.96307976	1.23562	0.30523512
YPEL3	9.17057667	3.97607447	11.3077667	5.19156309	1.23304859	0.30222966
TNFAIP8L1	1.43823693	0.39591077	1.77077771	0.63174981	1.23121419	0.30008176
TES	8.30882778	2.40632178	10.1822567	2.82011507	1.22547451	0.29334048
YPEL1	1.1586217	0.24600971	1.41127085	0.47745042	1.21806009	0.2845853
TNFSF8	1.47099656	1.18280167	1.76864448	0.8381262	1.20234441	0.26585021
DANCR	3.08134852	0.82854461	3.60868646	1.27150671	1.17113869	0.22791193
GIMAP1	2.69845519	0.51049217	3.09830146	0.74013045	1.14817599	0.19934379
MATK	1.85158322	3.68516919	2.1148809	1.56248528	1.14220137	0.19181702
NFIX	1.17848759	0.26433297	1.33841813	0.30847547	1.13570829	0.18359232
DGKD	1.78375741	0.30500348	2.00014083	0.44016932	1.12130765	0.16518217
S100B	2.24444195	3.28380351	2.48603242	1.63718885	1.10763944	0.14748832
CLEC10A	3.71344259	4.48424023	3.70408308	2.46463582	1.00252681	-0.0036408