

Table S7

Gene	Patients		DEN-CDAHFD mice	
	NASH	HCV	DENvsCTRL	JQ1vsVEH
DPPA4	-2.4507221	-1.23106239	0	0
RP11-423H2.	-0.8981717	-0.81424236	0	0
ABCC6P2	-0.7590928	-0.71193626	0	0
KCNN2	-0.90606881	-2.50004133	-0.931627	0.369597876
CLRN1-AS1	-0.73153087	-0.93564645	0	0
RP11-403I13.	-0.5794234	-1.92072442	0	0
GYG2	-0.38149763	-0.39142809	0	0
RP11-205M3.	-0.54051481	-2.06149254	0	0
AC114730.3	-1.88267706	-1.12903327	0	0
U91319.1	-2.17723502	-2.6998997	0	0
HSD17B3	-0.07016258	-0.43763102	-0.07654996	-0.4486277
CES5A	-0.64525921	-1.2936248	-0.90578743	-0.49892739
PZP	-2.33951683	-2.27410821	-1.89256551	0.460043035
ASXL3	-0.51773769	-1.80174824	2.006192447	-0.13377795
RP3-475N16.	-0.5909234	-0.9463459	0	0
AGXT	-0.33652657	-0.88102219	0.147575972	0.14161338
KCNK17	-0.72715277	-1.08999109	0	0
HORMAD2	-0.67208933	-1.38550533	1.284613674	-0.44712058
CAPN3	-0.81811361	-0.04366222	-0.51515617	-0.19079849
RP11-164J13	-0.62709904	-0.10401115	-1.17841156	-0.2449042
GNMT	-0.29267184	-2.41590541	1.010281257	0.26511131
NEU4	-1.24589956	-1.64577675	0	0
SLC6A13	-1.06465768	-0.68898039	-0.16949305	0.55297767
RP11-626H12	-1.31836203	-1.20411441	0	0
GCK	-0.10053585	-1.61542873	-0.10077628	0.482348339
KANK4	-0.25690513	-1.15128851	1.570048607	-2.27236038
PPP1R1A	-0.93019699	-2.41151278	-5.29674348	0.503841536
LPA	-1.43751186	-1.33928909	0	0
CNDP1	-0.28088602	-1.81725563	-1.7090469	0
ATAD3C	-0.81306887	-1.64556101	0	0
CYP1A2	-0.6106617	-1.07901831	-0.7950747	0.015649635
AOC1	-0.56962461	-2.81647926	3.770350404	-1.9921775
MAD1L1	-0.32930869	-0.33587188	0.857656748	0.081724681
CHRNA4	-1.45946397	-1.34383243	-3.87465579	1.033058417
RP11-261N11	-1.30424299	-1.20062411	0	0
ESPNL	-2.4769282	-1.86729984	-2.04943545	-2.11365241
TMTC1	-0.26168829	-0.27488214	-1.70976429	-1.30673694
CTNNA3	-0.91502857	-1.88329129	-1.78373955	-2.66894033
GSTA2	-0.58419009	-2.5531672	2.185206483	-0.09510108
RP11-168L7.1	-1.22721314	-2.01955038	0	0
ACSM2B	-0.33382684	-0.65137539	-1.92818054	0.17164726
MROH7	-0.76689333	-1.38750387	-0.03374728	-0.04267638
SLC2A4RG	-0.5415443	-0.84280382	0	0
LIME1	-1.05835513	-0.2993896	-0.12974122	0.267678071
NAT2	-0.19735538	-0.99639269	-1.33816068	0.334036246
MME	-0.24925768	-0.8803756	0.545426387	-1.72077443
APOC3	-0.56279475	-1.08184403	0.288061176	0.915129726

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APOA1	-0.40939164	-0.21668626	1.190914197	0.573916331
GCGR	-0.58955599	-0.5767726	0.938411736	0.384956281
ACADS	-0.70565231	-1.51820922	1.758092665	0.102160445
IGFALS	-1.32097564	-1.51965084	0.693432211	0.323948842
CPNE6	-1.12190128	-1.46437968	-1.18709776	0.46286219
CYP2E1	-0.7627884	-1.28197243	-0.67831191	-0.38300503
RP4-601P9.2	-0.39274039	-1.39791149	0	0
THOP1	-1.11509383	-0.54056292	2.107654318	-0.00972348
GCDH	-0.48476047	-1.27241334	-0.92194407	0.460733961
FAM151A	-1.12135117	-2.98982685	-1.5702119	0
LINC00844	-0.1218677	-1.75685164	0	0
AOX1	-0.38577817	-1.18870072	-1.43001628	-0.45441932
TBX3	-0.60130633	-0.93023813	0.007045852	0.981308932
TRIM55	-0.6910777	-0.86281811	-6.69903967	0.234553058
SLC22A25	-0.5437881	-0.26983561	0	0
RBP4	-0.47887111	-0.80536509	0.735681873	0.540164558
RP11-6B4.1	-0.17847196	-0.60049839	0	0
PRODH2	-0.78332363	-0.86434985	1.08136555	0.368855852
PCOLCE2	-0.80597542	-1.84255901	-0.44575108	0.453881387
CXXC4	-0.61485678	-1.31074769	0.274957302	-1.66097517
ORM2	-0.30333097	-1.71889822	-0.06343897	1.316434752
TRPC5	-1.15054694	-0.28614243	0	0
GPR88	-2.89485093	-1.49832435	3.147354211	0.308501615
CNPY3	-0.3092391	-1.03186197	1.590751373	0.112529546
PPP1R32	-0.57840839	-0.51350346	-0.29794567	-0.1806172
FITM1	-0.40357267	-2.11053874	1.445000192	-0.71612594
C1orf226	-0.30378358	-0.75137047	0	0
PDLIM1P4	-0.72270642	-0.60970953	0	0
RGN	-0.14858348	-0.4183961	-1.9167989	0.263588983
C3P1	-0.73943892	-1.13050933	0	0
ETNK2	-0.53797202	-0.93367032	-0.63448728	0.064088093
CES1P1	-0.7761245	-1.13929196	0	0
NAGS	-0.58083731	-1.33147303	1.389992177	0.680345386
ZGPAT	-0.52577405	-0.30478141	-0.31419239	0.012320437
FADS6	-1.43262387	-1.34128149	-0.97228235	0.244703225
HAO2-IT1	-1.17598425	-2.19108814	0	0
KBTBD11	-0.26249717	-1.00746047	2.168346681	-2.12840606
MAGI2-AS3	-0.14851223	-0.76988922	0	0
SLC7A9	-0.56499273	-0.3207836	6.07179876	-2.42213023
GFRA1	-0.6892832	-0.60694963	-0.64243638	0.383663324
CTD-2529O2	-1.38981285	-1.96483991	0	0
SNTG1	-1.70290612	-0.99997826	-0.00397039	0.08353135
RP11-113I22	-1.04494523	-2.42960165	0	0
MEX3A	-0.4014288	-0.66929954	2.315320358	-1.07390651
TYK2	-0.33689268	-0.23456273	0.468043533	-0.06874887
MOGAT2	-0.5169101	-1.01258039	5.250420661	0.152784716
Y_RNA	-0.02346015	-0.03847426	0	0
SMO	-0.72318166	-0.72733049	0.532521578	-0.50218122
RP11-475O6	-0.11944861	-1.92619636	0	0

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RP11-115J16	-0.49042301	-1.29195041	0	0
RP11-417L19	-0.93788756	-2.43138449	0	0
ALDH1L1-AS1	-0.57678654	-0.95671229	0	0
AR	-0.32841992	-0.61937934	-2.49324158	0.32984189
WFIKKN1	-1.10788814	-0.29750899	2.165136394	-0.46037337
FAM35BP	-0.45464905	-0.67651761	0	0
RP11-38L15.8	-1.64139712	-1.32215236	0	0
CYP2D6	-1.20083617	-0.51736017	-0.94229364	-0.43734165
ADH4	-0.37327833	-1.11196527	-1.53500203	0.609926043
SERPINC1	-0.44191393	-0.91356329	-0.43584493	0.455704698
GPER1	-0.72430582	-0.87864313	1.266493751	-1.93593043
FAM99B	-0.42207339	-0.64980146	0	0
TSC2	-0.51470298	-0.32410602	-0.13481896	-0.05123888
RP11-122K13	-0.4282542	-0.72525507	0	0
PRAP1	-0.48436789	-1.00265954	1.77095802	1.00778092
FUOM	-0.43695938	-1.04375595	1.915953556	0.232988149
CHAD	-0.43091584	-1.4220108	-3.18310492	-0.80112361
APOC2	-0.20675667	-0.49786674	-0.02233224	0.047557307
SLCO1B3	-0.89080173	-0.66958341	-2.48171127	0.341457059
ALDH1L1	-0.57082842	-1.04787036	-1.01559717	0.723301237
FMO3	-0.23543892	-0.60206838	2.875297708	1.513434232
TM6SF2	-0.53104662	-0.87198264	0.562631286	0.309177783
CAMSAP3	-0.46330341	-0.65140446	0.618070218	0.091779074
RP11-403I13.	-0.0233169	-0.38743239	0	0
RP11-7F17.3	-0.25850158	-1.67971184	0	0
RP11-830F9.5	-0.85678038	-0.89674626	0	0
RP11-119D9.	-0.62072299	-1.15789688	0	0
ECHDC3	-0.87238459	-0.53576085	0.261436014	0.171426061
GJB1	-0.74032789	-0.73024293	-0.34110883	0.392916013
GSTA7P	-0.38094262	-1.78967174	0	0
C11orf95	-0.35732372	-0.37193114	0.268295737	-0.68122824
MTND4P20	-1.38003848	-0.01431874	0	0
LINC01018	-0.19330424	-1.40847214	0	0
CTD-2227E11	-0.63455959	-1.13966826	0	0
HAGH	-0.51123608	-0.84823497	0.17539993	0.407405153
RP11-372E1.	-0.75618594	-1.35731764	0	0
RP11-706C16	-1.8182958	-0.95521501	0	0
JAKMIP2	-0.84794167	-0.85024754	0	0
AP006216.5	-0.8407068	-0.49212248	0	0
HPX	-0.47391215	-1.15407293	1.398815982	0.7837476
ALB	-0.2458638	-0.35952139	-1.14692879	1.177118787
RP5-881L22.6	-0.34488679	-0.13488544	0	0
PLEK2	-0.64435404	-0.2529252	1.701537791	-0.39845232
HGFAC	-0.48818222	-0.74951104	0.528136448	-0.27896128
ASB13	-0.26497003	-0.70081739	-0.6209156	0.334717778
GSTA1	-0.11117712	-0.86590608	2.185206483	-0.09510108
DGAT2	-0.23072787	-1.41493995	0.123781135	-0.03783972
NAT1	-0.27645685	-0.53341788	-1.33816068	0.334036246
RP1-152L7.5	-0.30911418	-0.60069461	0	0

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PLGLA	-0.27739169	-0.75813594	0	0
CBLN4	-0.12831522	-1.54643699	0	0
AASS	-0.22007565	-0.09164529	-2.0173792	0.26109611
CYP4A11	-0.49869444	-1.10623146	-0.6359834	0
MIR5589	-1.72874891	-0.18734387	0	0
GALK1	-0.7519535	-1.35456292	3.219229893	-0.13235771
RP11-260M19	-0.2852025	-0.72835784	0	0
AC005077.7	-0.27097686	-0.91933251	0	0
EFNA2	-0.31150137	-1.29236352	2.744371493	0.243325435
LYNX1	-1.18227612	-0.93683614	0.165523239	-0.7228945
SPSB3	-0.53165583	-0.35051342	1.777595129	0.476983175
KCNMA1	-0.24697603	-0.62288672	1.296712012	-0.87672123
C10orf11	-0.12464857	-0.45102332	2.064558967	-0.48554937
RP11-659E9	-0.47785444	-1.55485411	0	0
CECR2	-0.35329748	-0.68030902	-2.44960557	0.645066696
ADRA1A	-0.03227932	-0.79471412	-1.19251127	0.74664969
APOA5	-0.61599439	-1.50134461	0.821289118	-0.01486142
IGF2	-0.3554695	-0.32240275	3.64590461	1.059241861
INS-IGF2	-0.87778826	-0.36437642	0	0
AADAT	-0.72046157	-0.74623036	-1.71356825	0.152853722
CTD-2587M2	-0.5412677	-0.38354822	0	0
SLC10A1	-0.31850288	-0.65417388	-1.38601116	0.6816232
TMPRSS6	-0.59352585	-0.65294732	0.069943327	0.377556234
CTC-575D19	-0.31642712	-0.51410749	0	0
SCP2	-0.31335254	-0.53270357	-1.82269257	0.332979648
NR1I2	-0.43067792	-0.6574273	-0.25274024	0.059786781
ABAT	-0.4028759	-0.81071662	-2.22533703	0.367021437
GS1-124K5.1	-0.3225718	-0.13533062	0	0
ECHDC2	-0.39068656	-1.10311048	0.743171356	0.355289239
PON3	-0.39865978	-0.88263038	-1.319244	0.487580055
HAO2	-0.22843085	-1.39190186	2.261103306	-1.9611097
SLC22A7	-0.66355035	-0.50915312	-1.3111788	-0.68431735
SLC9A3R2	-0.40798399	-0.85415824	2.106401906	-0.55284649
GRHPR	-0.40528205	-0.78253502	1.516292166	0.203233324
SLC25A47	-0.14854792	-1.07642365	1.012148419	0.080138398
CFHR5	-0.36897879	-1.51610778	0	0
PLG	-0.34222764	-0.60941735	-0.74696285	0.584784533
AZGP1	-0.39111322	-1.18098557	-0.5124546	0.293337404
PCSK9	-0.42595844	-0.82264187	-0.54931029	0.719658512
NTHL1	-0.7049843	-1.34042858	2.148095313	-0.05341062
APOC1	-0.18470404	-1.0006866	0.502282887	0.013341656
APOE	-0.34329697	-0.64483118	2.202667178	0.295330975
AZGP1P1	-0.2847023	-0.88205065	0	0
F2	-0.54261288	-0.91450234	0.263710189	0.334329669
DFFB	-1.2509295	-0.77987858	-0.4573144	-0.21295245
MAT1A	-0.43932196	-1.36668874	-1.00723322	0.449695574
EVPLL	-0.13150388	-0.17677127	0	0
MFSD3	-0.52085545	-0.65716723	0.855843869	-0.03364654
GPT	-0.8935722	-1.29109863	0.890915753	0.320000945

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SMLR1	-0.36463885	-0.7914789	0.218325963	0.754861645
PPP1R1C	-0.9073233	-0.91938067	-1.75455603	0
CTD-2517M2	-1.55194647	-1.44049619	0	0
SULT1A1	-0.60385107	-0.62471469	-0.23120996	3.081608956
ST3GAL6	-0.19326731	-0.80153534	-0.54324814	-0.39085762
SLC25A34	-0.77238145	-0.38970654	-0.66735736	-0.00452284
MGMT	-0.37073273	-1.17964964	0.577477414	-0.05546817
ZNF511	-0.45825498	-1.26275544	0.709545441	0.364165563
TMEM105	-1.95164925	-0.83773835	0	0
HSD17B10	-0.66849793	-1.12384999	0.183987948	0.046262234
RP3-339A18.	-0.62317886	-0.22394972	0	0
SERPINF2	-0.4919938	-1.01223112	-0.15928417	0.61193406
FBLN7	-0.11005542	-0.31799881	2.223166398	-0.66546496
SLC39A5	-0.65327754	-0.83531939	5.589404383	-1.43937034
SYAP1	-0.17834441	-0.41024031	-1.25097975	0.143320352
RP13-650J16	-1.51618341	-1.7720716	0	0
DCXR	-0.74689712	-1.35499445	0.764920151	0.175225773
TPCN2	-0.8313272	-0.05957462	2.200709632	-0.7220059
PON1	-0.38788627	-0.66869454	-1.41895691	0.07353198
FAHD1	-0.16381536	-0.49512726	-0.01016767	0.475129144
FOX2	-0.20336137	-0.46505531	-0.97170544	0.403467754
AZGP1P2	-0.82469454	-0.32681402	0	0
TRABD2B	-0.97431825	-1.05816015	0.871749654	-0.95454375
PROX1-AS1	-0.36316598	-0.6555981	0	0
C2orf72	-0.53820929	-0.54077596	-0.59384386	0.552557179
GNA11	-0.03690947	-0.56602609	1.078053937	0.055481262
HAAO	-0.58026982	-1.05195289	0.276733571	0.222593489
APOH	-0.26309137	-0.82622237	-0.84214088	0.390449166
THAP3	-0.36273315	-0.79358321	2.810345198	-0.20705488
SLC38A3	-0.63324429	-0.29342572	-0.35798721	-0.03123367
AP006285.7	-0.33618968	-0.12187872	0	0
RP11-223I10.	-0.67609863	-0.65048699	0	0
MSRB1	-0.49656321	-0.8226873	0.492008852	0.480986393
SEMA4G	-0.66731367	-0.22269147	-0.68880899	0.231510475
UGT2B7	-0.305407	-0.56848741	0	0
COL18A1	-0.41754361	-0.62289087	0.620871987	0.524233289
TTR	-0.55678518	-1.02180884	0.21609858	0.903578942
GC	-0.28560178	-0.70674607	-0.90210264	0.710800277
SLC6A12	-0.39473516	-0.12439678	-0.62871429	0.474232057
MT1X	-0.00206655	-3.42764884	3.453393608	-0.36577852
HPGD	-0.07826363	-0.32079332	-1.49828973	0.430623134
SKP2	-0.23858658	-0.12313172	-0.67945484	0.191255554
SULT1E1	-0.58353044	-1.30954036	4.801949177	1.484170159
GOT2	-0.2769067	-0.11767656	-0.37939954	0.29091663
PROX1	-0.08423018	-0.29469943	-1.18726553	0.17252713
LCAT	-0.64257954	-1.24218556	0.474011255	0.046159316
TP53I13	-0.42701329	-0.92210032	2.879401757	-0.14477356
CES3	-0.62053334	-1.16648046	-0.61043096	-0.22420003
KLF15	-0.59164921	-0.84048457	-0.23183555	-0.28858504

Table S7

BHMT	-0.20300706	-0.37372297	-2.14830866	1.669828503
HSD17B6	-0.26812573	-0.89045722	0.370656719	-1.26535698
CYP2C8	-0.23249612	-0.76444177	-0.86972299	-0.07718789
MASP2	-0.46779306	-0.9360775	-0.56567154	0.011683088
FTCD	-0.59879844	-0.62859591	-0.33266909	0.008021519
ABCC6P1	-0.24015412	-0.74694993	0	0
TDO2	-0.06867423	-0.75261121	-1.95383107	0.085773158
SEPP1	-0.17664726	-0.18374918	-0.2507837	0.750967642
PSAT1	-0.34009565	-0.49002442	3.213595979	0.617559821
AC016768.1	-0.02363364	-0.42085007	0	0
ESRP2	-0.49172146	-0.30389829	-0.05632661	0.558652844
REXO1	-0.29182671	-0.4211859	1.581837904	-0.17446947
BCKDHB	-0.24370318	-0.71368555	-0.33431722	-0.30249251
WNK3	-0.15905712	-0.22928163	0.352477683	-1.07582487
GYS2	-0.45581656	-0.45763359	-0.76279064	-0.54374682
SULT1A2	-0.51268043	-1.12560582	-0.23120996	3.081608956
TOMM40	-0.12174364	-0.48823351	1.77851661	-0.04286913
GRB14	-0.36811991	-0.63719688	-0.39535197	0.526064356
ALDH7A1	-0.17675211	-0.66511301	-0.84170433	0.623383574
SEC14L4	-0.5382041	-0.66216824	-1.85793727	0.056451825
MLXIPL	-0.5354669	-0.6665602	-0.44527549	-0.2886265
RAC3	-0.75021392	-0.79184558	2.634619203	-0.69151508
NUGGC	-0.51425539	-0.04135724	5.593062494	1.318953129
F7	-0.7449175	-0.64762101	0.086624837	0.477092957
RTP3	-0.13700222	-0.76433408	-1.00514674	0.540725624
CES1	-0.38847274	-0.48002304	-0.92751108	-0.1869952
RFNG	-0.5666767	-0.86934766	0.932425941	0.307167056
GPS1	-0.49637507	-0.56191508	0.09244829	0.464884199
PPP1R16A	-0.66588538	-1.16891665	1.936710343	-0.10531233
TTBK1	-0.98803758	-0.92991057	0.339716042	-1.59495314
KLHDC10	-0.41965456	-0.0699715	-0.85557043	0.259357281
MYO15A	-0.57503812	-0.33774502	-0.64982178	-0.61349401
RP5-834N19.	-0.47214717	-0.23215604	0	0
GAMT	-0.53283533	-0.72363615	0.69790966	0.214843579
IYD	-0.20919488	-0.59368668	-1.21238669	0.488694851
MPST	-0.61847694	-0.78239759	1.852932173	0.23516254
RP11-418J17	-0.43838718	-0.65151276	0	0
CPN2	-0.60398791	-0.51493189	-0.52943291	0.437544958
PSMB7	-0.40525092	-0.66821393	-0.34080458	0.396926671
PPARA	-0.28934477	-0.29598282	-2.84370795	-0.0336332
SPP2	-0.06856169	-0.7928673	0.344000538	0.250544663
HFE2	-0.39775836	-0.81608454	0.780313336	0.867591515
DMRTA1	-0.36923061	-0.48582693	-1.33684892	-1.12986747
SORD	-0.62275595	-1.1135615	-0.83284752	0.380380311
FAM99A	-1.08120792	-0.93121458	0	0
XAB2	-0.43267853	-0.5872996	1.462522495	-0.15605664
GPRC5C	-0.48218755	-0.73894611	-0.16660075	0.067566146
PKD2	-0.28839901	-0.85685678	-0.31266876	-0.34790859
ACOT6	-0.65614173	-0.6506756	0.83354589	0.342630761

Table S7

COX10-AS1	-0.26374465	-0.38975016	0	0
ST18	-0.30923317	-0.14815859	4.232897175	-1.26287725
NRBP2	-0.4174886	-0.40955707	0.167782975	-0.07923623
ABCC11	-0.86535097	-0.02023343	0	0
PGRMC1	-0.23327907	-0.53660825	-1.5712967	0.357539992
PLIN4	-0.49893815	-0.9539915	-0.18895289	-1.19252671
FES	-0.26472874	-1.01619583	1.347775258	-0.3654185
SLC45A3	-0.40501816	-0.97874371	-0.01502737	0.072461151
TMEM176A	-0.49646486	-1.15494974	1.848398319	0.036745806
MBL2	-0.69868288	-0.20276982	-0.96041173	0.724885005
SLC16A2	-0.52357903	-0.29847871	-1.26089015	0.112883593
ADH1B	-0.22272349	-0.98338219	0.36909949	0.206302281
NOS1AP	-0.34365977	-0.44382282	-0.70086698	-0.074444043
SLC44A1	-0.08968774	-0.16455541	-1.26845269	0.123190703
TDGF1	-1.89008927	-0.61044714	0	0
ACSM5	-0.70498262	-0.34860538	-1.75028876	-0.27559677
DHTKD1	-0.28780214	-0.28827486	-2.27438109	0.006376649
ANPEP	-0.44870785	-0.82958075	0.084798275	0.049386018
AP000695.6	-0.61630157	-0.52944868	0	0
TMEM110-MU	-0.80527465	-0.32791006	0.581388107	0.127617248
MIR3646	-0.04350225	-0.65031917	0	0
NUDC	-0.12283606	-0.88058138	2.089600363	-0.30174911
TMEM176B	-0.48094142	-1.05263084	1.742196011	0.02487796
DGAT1	-0.09773453	-0.89548079	0.441501776	-0.10478743
CNTLN	-0.1389144	-0.2701225	-0.20296246	-0.72879252
ASGR2	-0.2987114	-0.68716783	0.293105094	-0.23476606
NLRP14	-0.08707569	-0.42367853	0	0
RAVER1	-0.1292519	-0.15620543	1.179006393	-0.02131146
PLIN5	-0.61053996	-1.07468021	1.063843727	0.475832532
RAPSN	-0.68408735	-0.00115935	1.044269816	-1.05373096
KHK	-0.61005479	-1.00295435	1.429467849	0.026311738
NBPF13P	-0.50473553	-0.73410418	0	0
CEACAM22P	-0.6938149	-0.85363777	0	0
SLC43A1	-0.56829874	-0.40032971	0.146549491	-0.27279143
HNF1A	-0.46342037	-0.6827916	1.396800665	-0.06264034
CMYA5	-0.4169838	-0.41421177	-5.93267418	-2.16547059
PQLC1	-0.53523251	-0.85692464	0.360411102	0.182908119
LRR3	-0.67704592	-0.2589194	-0.67788957	0.406459243
LRR3-AS1	-1.07459726	-0.79009512	0	0
CHID1	-0.49327456	-0.95109205	0.682781932	0.576794671
KLKB1	-0.35422343	-0.74266281	-1.20243197	0.333895347
CTB-50L17.14	-0.61615336	-0.75733158	0	0
HSD17B14	-0.97380077	-3.43013153	3.178145273	-1.73786156
MGST1	-0.18759852	-0.63465881	-1.08415088	0.422860394
ARID3C	-0.8793646	-0.52052863	0.934029435	-2.06894716
CAT	-0.37921384	-0.78696601	-1.78200034	0.212121099
RP11-252E2.	-0.58921679	-0.6413635	0	0
SLC22A10	-0.54427978	-0.10490981	0	0
ACOX2	-0.78620648	-0.78830167	-0.56946643	0.309990988

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RP11-696N14	-0.84493446	-0.24456115	0	0
GLYAT	-0.54519501	-0.9709644	-1.09043764	0.475681466
NR2F6	-0.38560677	-0.93696277	1.623280256	0.360672069
RNF128	-0.28440722	-0.25186554	-0.73277949	0.368536777
C1orf115	-0.2251882	-0.76811722	-0.10632989	0.398969901
SNAPC4	-0.22650239	-0.11961156	0.428910591	-0.22165435
SNED1	-0.15384695	-0.30487056	-0.67448113	-0.43054319
PNPLA3	-0.27193537	-0.09097557	-0.00056543	-0.20904869
SCG5	-0.07358165	-0.62591564	2.785404572	-1.88108896
NIT2	-0.32812463	-0.75156051	-1.22067187	0.430420737
TST	-0.50893589	-0.75996646	1.950168325	0.151972823
GGACT	-0.80052539	-1.12210102	0.428597512	0.064021905
GSTZ1	-0.80412727	-1.20105822	-0.93531312	0.207531697
MRPL43	-0.4666328	-0.68585312	1.386897223	0.325829171
SLC27A5	-0.77792301	-1.1779547	-1.10913859	0.193671952
BCAT2	-0.09917677	-0.78345609	1.328475344	0.198484704
POLE	-0.54468836	-0.06241185	-0.47473271	0.218634138
SERPINA4	-0.65080972	-0.42859245	0	0
ABCG8	-0.47869189	-0.11226664	-0.21816252	-0.36071007
TEF	-0.36272388	-0.14550333	-1.34774246	-0.04928715
LBX2	-0.8532518	-1.3155267	2.494707967	-0.12219597
LBX2-AS1	-0.14928032	-0.52155161	0	0
RP11-523H20	-0.07324914	-1.11574703	0	0
BPHL	-0.33468245	-0.62649583	-0.40547113	0.193648318
PACSIN3	-1.07206375	-1.51556614	1.263819286	0.297110525
ASPG	-0.79261857	-1.4390274	0.207198931	-0.27699693
SERPINA5	-0.58397378	-0.51793313	0.983551908	-0.60822897
CA14	-1.0363896	-0.54710027	-1.21025073	0.766703469
GGH	-0.09944419	-1.06340289	0.356019241	0.070370367
AKR1D1	-0.61880369	-1.0676664	-2.72593865	0.634054931
HNF1A-AS1	-1.07500327	-0.43845219	0	0
PKD1	-0.34928737	-0.49107191	0.030363006	-0.40039418
C8orf82	-0.49552816	-1.1681896	0	0
TTC36	-0.59208703	-1.53502211	0.412443545	0.591365431
CLDN14	-0.85268107	-0.75450766	1.756882662	0.128411987
PROC	-0.61859226	-0.9470801	0	0
HNF4A	-0.48537504	-0.40547763	-0.8011589	0.185900889
KCTD21-AS1	-0.86402868	-0.74058551	0	0
NDUFA6-AS1	-0.75071851	-0.44210541	0	0
IVD	-0.46524827	-0.50877386	-0.48883276	-0.12867121
SLC25A10	-0.66641428	-0.68847993	0	0
DNAJC12	-0.6283231	-1.695647	0.515684335	0.884294829
ITIH4	-0.59324242	-0.79847195	-0.30719039	0.982591155
RP5-966M1.6	-0.32412675	-0.80088394	2.218156442	-0.27857819
CBS	-0.43363463	-0.88974174	0.147965212	0.221481821
VIL1	-1.22220723	-1.39021968	4.14252667	-1.82374784
FTCDNL1	-0.05761247	-0.84931732	0	0
TMEM25	-0.49532423	-0.57250106	-1.00021659	0.472030898
ALAD	-0.56335032	-0.6178861	0.718664146	-0.41390672

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POMT2	-0.3247902	-0.03791069	-0.63961182	0.557114212
SLC19A1	-0.27601945	-0.45907593	1.535184457	-0.0071566
AK4	-0.34284033	-0.02810523	-1.34493399	0.03739559
MOGAT1	-0.50864505	-0.22872663	-0.68591912	-1.39354425
PCYT2	-0.59491452	-0.587816	0.345643853	0.486129721
RP4-758J18.2	-0.17419048	-0.53221071	0	0
CCNL2	-0.05350519	-0.09091779	-1.06760448	-0.00910597
QDPR	-0.57305241	-0.85748197	-1.00600095	0.544484296
GNAO1	-0.79643866	-0.70999546	-0.15119239	-0.82072856
SAT2	-0.62937422	-0.88015374	-0.11184796	0.668059415
NUDT16	-0.21782162	-0.36298601	0.523764613	-0.47581685
ABHD15	-0.22205575	-0.67744666	-0.4450189	0.566860031
RP3-402G11.	-0.98140848	-0.69587218	0	0
SELO	-0.68214808	-0.67197017	-0.10957756	0.126337557
TMEM110	-0.90234925	-0.60042962	0.581388107	0.127617248
AMBP	-0.37015464	-0.94413321	0.689415007	0.719059077
PHGDH	-0.63145205	-0.98314732	3.508312007	0.161426583
ALKBH2	-0.35000912	-0.7987394	3.059956783	0.33956247
XYLB	-0.49290218	-0.46450529	-0.5619052	0.519951045
TTC31	-0.2701114	-0.15256623	0	0
C1R	-0.41261905	-1.19884538	-0.63758813	-0.13542597
STEAP3	-0.27141357	-0.3232459	1.444581406	-0.13308154
PMM1	-0.66139494	-0.80266303	2.385028199	0.310917459
C16orf13	-0.52374861	-0.9550174	1.391037141	-0.19937936
ITIH1	-0.40822372	-1.26829524	-0.6039896	0.297082406
SHMT2	-0.35397619	-0.8877449	0.568911421	0.261389219
SH3PXD2A	-0.58938999	-0.90497988	-0.97356762	-0.04386584
ASL	-0.54135086	-0.58256593	0.315368405	0.334276643
NDUFS7	-0.35223236	-0.76830728	2.822963873	-0.18318038
NAPEPLD	-0.32020048	-0.20161623	0.052960895	0.754243667
TCEA3	-0.39952876	-1.18078015	0.778537275	-0.40543229
SUGP1	-0.39628952	-0.47110729	0.288388284	-0.04930485
VTN	-0.44614781	-0.61042422	0.556573322	0.794597888
SHANK3	-0.32842138	-0.25487302	0.746072307	-0.81380288
ECHS1	-0.38267837	-0.84368604	-0.57357267	0.200970474
MFAP3L	-0.14093197	-0.56108907	-1.43605614	-0.55196625
MRPL23	-0.48427608	-0.80982467	0.950737335	0.060701693
MIR126	-1.47349672	-0.45010185	0	0
AGXT2	-0.26358289	-1.05744694	-0.9913399	-0.13192309
SLC25A42	-0.65612664	-0.57297845	-0.4979975	0.135799611
MARC1	-0.4616936	-0.67749173	-0.37541296	0.321632559
ELP3	-0.26401312	-0.15074368	-0.18713189	0.099629538
DAB1	-0.28298333	-0.38255978	1.44027818	-1.03835384
TMEM37	-0.37077912	-0.94358344	2.008048556	0.562554913
GULOP	-0.43069123	-0.39825511	0	0
ASPSCR1	-0.38345114	-0.42199433	1.21878853	0.097902396
GNE	-0.2455501	-0.75925254	0.777437212	0.002945869
SLC25A18	-0.32635209	-0.21909345	-1.6233079	1.299404448
SLC46A1	-0.79670586	-0.70856786	0.573357638	0.35205969

Table S7

SFXN5	-0.54079603	-0.57629718	-0.42703572	-0.30886883
C3	-0.38763206	-0.70278501	-0.28740991	1.039457609
ICAM3	-0.27723121	-0.69113664	0	0
TTPAL	-0.38842257	-0.73380663	-0.97361866	0.441153194
CTNS	-0.13640506	-0.06808933	-0.75384921	-0.20052393
PRKAG2-AS1	-0.71312727	-0.89928971	0	0
ABCG5	-0.27781841	-0.20585278	-0.69166486	-0.02735932
PROZ	-0.87058357	-0.46779426	-0.70479135	0.552491006
SUOX	-0.26995605	-0.41722897	-1.50014633	0.123148903
FAM53A	-1.34052183	-0.81855426	0.088058257	0.143845339
SPTBN2	-0.80740352	-0.35626365	0.182960193	0.247748846
CASC10	-0.69520747	-0.93311633	0	0
LCN12	-0.26713476	-0.87038823	0.062128635	0.191021322
C8G	-0.57468221	-0.80100824	0.420297155	-0.11974103
SIGMAR1	-0.37741406	-0.76295689	0.268600186	0.826853425
MLYCD	-0.58388552	-0.78159264	1.154985287	0.139233254
CPPED1	-0.19588188	-0.83837278	-0.87158706	0.219395597
APOF	-0.46270578	-1.63843659	-0.16643542	0.525010646
ABCC2	-0.33845758	-0.02173253	-2.38011745	-0.07692772
HPN	-0.51873642	-0.99416798	1.040091404	0.266029143
PKLR	-0.96329091	-0.4731071	-0.1710823	-0.60816379
RAD54L2	-0.34953813	-0.00772237	-2.08980949	-0.06599881
RP5-875H18.	-0.97441634	-0.05396903	0	0
CMBL	-0.42361597	-0.64957924	-0.60565685	0.24309112
RP11-390F4.2	-0.12267721	-0.74180674	0	0
SLC30A10	-0.63668659	-0.11120664	-2.59696857	1.209207738
ACADSB	-0.66415257	-1.05673676	-2.19239063	-0.03858801
ITCH	-0.07400923	-0.30715213	-2.10857483	0.23087938
MIR122	-0.27105962	-0.63102949	0	0
RP11-661A12	-1.0068164	-1.92305277	0	0
SLC13A5	-0.42868528	-1.19539529	0.782827673	-1.7061129
TMEM220	-0.48361796	-0.54619079	-1.51020916	0.138628961
PRKAG2	-0.19203878	-0.15858696	-1.18251038	0.177794695
TADA1	-0.30389333	-0.36947123	-0.80004944	0.196595046
ASGR1	-0.39248104	-0.91763274	0.19094474	0.509030549
DOLPP1	-0.34741768	-0.51219965	0.406577097	0.331817911
FXDY1	-1.06420331	-1.02384475	1.150356923	-0.04012396
PCK2	-0.56978258	-1.12463001	2.485520794	-0.32361604
DHRS4	-0.58176346	-0.97563092	0.291885109	0.145110743
PGLYRP2	-0.84706281	-0.32329112	0.281336844	0.124699523
LPAL2	-0.37628717	-0.24212963	0	0
AC142528.1	-1.29217617	-0.72544589	0	0
AGPAT2	-0.2614578	-1.30771679	1.121800941	0.459562652
PEBP1	-0.32506038	-0.76046978	0	0
HIBADH	-0.33410414	-0.55182101	-1.4082294	0.096862796
CYP4F3	-0.2665262	-0.51545601	3.757352868	-0.95009315
RG512	-0.57454486	-0.58327237	0.89994273	-0.29993358
TNFAIP8L1	-0.36056345	-0.3039113	1.070496991	0.525208492
RP11-407B7.	-0.54535569	-1.02360153	0	0

Table S7

DCTD	-0.23862439	-0.29141796	2.942049864	-0.64848505
MRPS22	-0.18247279	-0.41518208	-0.23917551	0.249346273
DBT	-0.14445026	-0.30654564	-2.149208	0.182669571
PAOX	-0.73269053	-0.71989324	-1.6003457	0.394558202
PAIP2B	-0.39698838	-0.63530655	-1.72219379	0.287665619
MPC1	-0.00152835	-1.12736321	-0.0594223	-0.07937519
NDRG2	-0.31842761	-0.71282285	-1.00538565	0.182364998
PEMT	-0.59869992	-1.07088446	0.637737504	0.332165739
ALDH8A1	-0.47933895	-0.34232888	-1.25867769	0.456978399
TSSC1	-0.6524941	-0.77835846	0.851081347	0.3646474
AP001065.15	-0.87613974	-0.08523425	0	0
TSPAN9	-0.36274604	-0.41022723	0.824459942	0.17954032
FGFR4	-0.84466308	-0.52219796	1.002820707	0.223755146
ZNF444	-0.648907	-0.5494435	0.998838902	0.118021012
LINC00094	-0.2356437	-0.53746288	0	0
FAM73B	-0.39044713	-0.20109973	0.372022369	0.385818181
TTPA	-0.48765707	-0.74043882	-1.00539429	0.431762502
CTD-2545H1.	-0.33631689	-0.46832027	0	0
TFR2	-0.53218059	-0.97155978	-0.19776122	0.444648846
FLCN	-0.64468395	-0.52512804	-0.2498599	-0.28046311
ACAA1	-0.55832654	-0.81170487	0.686636556	0.11561066
FURIN	-0.28325597	-0.63288246	0.64209436	0.010651209
SALL1	-0.46199645	-0.39733207	-0.4822282	0.173940341
ZNF696	-0.18533551	-0.23374923	0	0
RNF126	-0.41953799	-0.43267775	2.563128783	0.184691357
AC004156.3	-1.08457874	-0.70364242	0	0
POLR3H	-0.53867307	-0.93570313	0.957927572	0.08088269
GHR	-0.1827679	-0.13073588	-2.29981144	0.016144387
ACP2	-0.51429543	-0.53974254	-0.41515062	0.164247317
ZNF497	-0.62888286	-0.45092334	0	0
ZBTB48	-0.44558566	-0.54510362	0.977325838	0.095960112
FAM20C	-0.26916105	-0.87752018	1.007265865	0.165581995
NAT8	-0.04774105	-0.09651174	0.705114068	-0.2101434
HPD	-0.47119318	-0.52211752	0.257173431	0.291001902
ADI1	-0.32875552	-0.88318212	-0.97963624	0.406260335
CTA-292E10.	-0.61463776	-0.94459549	0	0
SNHG8	-0.3885628	-0.86430197	0	0
BNIP3	-0.11974501	-0.79971838	-1.19704826	0.103345321
ZNF517	-0.71609491	-0.38050494	0	0
EHHADH	-0.21599818	-0.34444992	-1.61945738	0.695650813
RP11-449P15	-0.529043	-0.01401733	0	0
GET4	-1.10074438	-0.14827759	0.789491208	0.283343786
TBC1D2	-0.74601009	-0.55556537	1.728027251	0.03357927
SFXN1	-0.29650873	-0.28034586	-1.19736932	0.417448201
FBXW11P1	-0.25842395	-0.92298745	0	0
TTC6	-0.16019604	-0.52302249	-1.98459234	-0.2315565
GALT	-0.60259549	-0.67287157	0.980493758	0.349768793
MRPL20	-0.25110988	-0.64343605	1.261873216	0.141437232
RP11-513G11	-0.42124821	-0.22074738	0	0

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ZBTB45	-0.21878266	-0.1079143	2.814966798	-0.21095617
EDC3	-0.09290885	-0.01902446	-0.47382401	0.142315614
AC009166.5	-0.46116019	-0.55750509	0	0
PCBD1	-0.62343799	-1.17142332	-0.02149932	0.352433634
RP11-44M6.3	-0.62538841	-0.77398596	0	0
LRRC37A5P	-1.4949825	-0.6939784	0	0
OSGIN1	-0.78322939	-0.38862248	3.626452882	0.221686146
DEPDC7	-0.30464535	-0.47928419	-1.07028273	0.542173695
TMEM82	-0.56732666	-0.99211059	1.76597135	0.755734291
SLC26A1	-0.93810053	-0.31986911	-1.30102052	0.3988583
HSBP1L1	-0.37467011	-0.88578097	0.220470118	0.646250462
THRB	-0.32045112	-0.31120054	-1.92158123	0.061091271
ENTPD5	-0.44530291	-0.29483671	-1.30622372	0.199678681
PKD1L2	-0.35780234	-1.00867416	3.643219436	-0.80749385
BDH1	-0.40847211	-0.51262771	0.410121216	-0.17422228
SLC25A20	-0.42134512	-0.57574441	-0.28069522	0.411094556
RDH16	-0.69961363	-0.90174228	0	0
MYD88	-0.25047133	-0.37232038	0.632530558	0.083277407
MPLKIP	-0.48490885	-0.84739524	-0.36737989	0.421042762
FBP1	-0.24166971	-0.49343109	0.187883464	0.502182298
SOWAHB	-0.32586866	-0.37339702	0.414876102	0.761918379
FUBP3	-0.11029061	-0.22231808	-0.79117826	0.069404834
CYP27A1	-0.55690332	-0.88349417	-0.56542922	0.748437821
IL11RA	-0.85746262	-0.36602985	0	0
SLC27A2	-0.16020915	-0.74830749	-0.84756506	0.243884954
ZNF385B	-0.38910069	-0.5771255	-1.85475151	0.059889039
DEAF1	-0.08303319	-0.28714167	1.066759776	-0.03110666
POLR2F	-0.22893025	-0.70111964	2.553232095	-0.05250184
MMACHC	-0.47301601	-0.59763845	-0.88987416	0.084178781
RP11-344P13	-0.39996927	-0.45573736	0	0
IDUA	-0.17471939	-0.36929699	1.027115166	-0.15407296
HDHD3	-0.64024419	-0.74348062	0.02707614	0.310149246
FABP1	-0.17117168	-0.5675242	-0.87873391	0.574257629
SCCPDH	-0.13835336	-0.72535707	0.200658428	-0.1971062
EPHX2	-0.55580656	-0.77394145	-1.12821712	0.265609966
TTC38	-0.4785725	-0.82906739	-0.1821671	0.128283017
PCDH1	-0.55498688	-0.88196897	-0.03088989	0.462190624
C19orf66	-0.41574106	-0.75454268	0.514377945	0.829082493
CFB	-0.08069209	-0.86641732	0	0
MTHFD1	-0.24793039	-0.6193901	-0.74763333	0.192620416
CYP8B1	-0.39722099	-0.67081877	-0.11971815	1.020162268
TRIM24	-0.14690973	-0.29798113	-0.7871406	-0.22313694
FKBP8	-0.45534144	-1.03670196	2.219258372	0.095813259
PEX6	-0.74151621	-0.62556105	1.51360758	-0.20851173
BTD	-0.51880871	-0.50186324	0.428997633	0.203553467
SLC6A1	-0.66780318	-0.05242181	-0.58529227	1.284248743
RANBP1	-0.194188	-0.57187374	0.952132148	0.344334294
RP11-38G5.4	-0.26812771	-1.17908542	0	0
TOLLIP	-0.37509006	-0.59443591	-0.97826386	0.154265679

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LGI4	-0.37823075	-0.05688356	1.316726844	-0.29316781
RP11-209K10	-0.41472663	-0.28326213	0	0
OPLAH	-0.65896031	-0.98607565	0.335848598	-0.09601228
SGK2	-0.52259356	-0.33546409	-0.53766711	0.373037889
EI24	-0.29859245	-0.37239322	-1.00493807	0.409769358
CYP4F11	-0.50365337	-0.60430695	-0.6359834	0
WDR18	-0.26303469	-0.80343687	1.134463114	0.124934226
TOLLIP-AS1	-1.01910709	-0.96845316	0	0
USP30	-0.32035688	-0.59223782	0.472811192	-0.06999459
ABCG2	-0.48328026	-0.69633905	0.836600358	-0.52113891
ACACB	-0.49664018	-0.61214431	-0.65669018	0.083492367
AHCY	-0.73209204	-0.68778703	-0.75825353	0.138258963
ABCC6	-0.65634783	-0.36438224	-0.03368974	0.147387369
GLS2	-0.59292292	-0.54243895	-0.68354741	-0.03480728
AC019181.2	-1.02266815	-1.07113673	0	0
ACVR1C	-0.11652767	-0.35008002	-3.1212476	1.157937025
F10	-0.28230454	-0.56833053	0.283606342	0.758443798
ZKSCAN1	-0.36168698	-0.21361593	-1.48943274	0.284545913
ADCY1	-0.81148915	-0.97305651	3.470521668	-0.23322546
CHMP6	-0.20590671	-0.39920899	1.798924317	0.265866433
RPL7AP6	-0.4702246	-0.66199388	0	0
SEC14L2	-0.75546165	-0.67290959	-0.49668518	0.475825713
C7orf50	-0.04986888	-0.08085842	1.185214477	-1.10080083
FAH	-0.48538971	-0.69808226	-0.34755423	0.435036529
CLUH	-0.62216832	-0.50627332	-0.4291588	0.379146556
PPP6R2	-0.60696935	-0.37289816	-0.55911679	-0.01846265
C1S	-0.24333759	-0.68776094	-1.31336006	0.520638609
FANCC	-0.83149984	-0.48837318	0.08540546	0.4008986
SLC25A13	-0.26677068	-0.47695618	-1.52059362	0.485937484
RAPH1	-0.51958729	-0.02189156	-1.06426181	-0.01003368
RNF215	-0.3064139	-0.1027603	0.945168405	-0.0525064
PAH	-0.40321861	-0.15844776	-1.78433282	-0.0157304
GCSH	-0.21442025	-0.80755575	-0.69232622	0.628196444
LHPP	-0.23139448	-0.72840562	0.199198087	-0.18034108
TFDP2	-0.05611059	-0.07030701	-1.61476219	0.142666909
KDM8	-0.42484203	-1.36695814	0.012812333	0.06917546
ACSF2	-0.30709126	-0.43313341	-1.04944327	-0.08307248
RAB26	-0.89089924	-0.68789995	2.374557829	-1.10826931
SMOC1	-0.35628209	-0.95580899	-0.41519089	0.520182393
AL161668.5	-0.22841744	-1.49444603	0	0
TPPP2	-0.28308336	-1.26846498	-1.08441724	-0.49892753
IPO5	-0.15031268	-0.18134521	-0.42205522	0.040831232
ZC3H7B	-0.25751247	-0.12998183	-0.33722032	-0.30796501
RP4-584D14.	-0.13616521	-0.82351346	0	0
RARRES2	-0.51733897	-1.15441677	1.41162687	-0.54532646
POLM	-0.29587248	-0.40396695	0.911555104	-0.18382754
RP11-713M15	-0.56784251	-0.67548248	0	0
GPR146	-0.31837514	-0.56382517	0.167804366	0.136060853
MOCS1	-0.56598929	-0.94277482	-0.16789565	0.038985097

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SERPIND1	-0.36433476	-0.54751351	-0.94902242	0.482225695
TACO1	-0.21320353	-0.72224437	-1.27544446	0.354371053
EPHX1	-0.28063641	-0.74574771	-0.06093992	0.317855387
SDC2	-0.22556491	-0.57809391	-1.39524853	0.614605394
RP11-45M22	-1.58453288	-0.09215897	0	0
TOP1MT	-0.19592005	-0.44240036	-0.01967597	0.478417322
FAAH	-0.44039703	-0.57822996	-0.45873059	0.193819305
SLC22A1	-0.58787038	-0.81758857	0.654380241	-0.1431791
CTD-2619J13	-0.35564684	-0.40817897	0	0
PUF60	-0.30059789	-0.54650994	1.124693204	0.072554165
GLYCTK	-0.60284451	-0.97975949	-0.39659	0.438932788
ARFGAP2	-0.45218896	-0.46795598	-0.39975494	0.408404768
PXMP2	-0.4881838	-1.11330067	-0.12353625	0.327770673
RAB40C	-0.22958853	-0.59450239	0.891792263	0.034322159
PPL	-0.61851932	-0.55818806	0.984931902	0.048278601
ESD	-0.11785903	-0.55054689	-0.06858429	0.360972554
IQGAP2	-0.19521028	-0.28828367	-2.32545394	0.41993806
DECR2	-0.42247838	-0.95881494	-0.51077099	-0.0258893
ARMC6	-0.52188393	-0.90539794	1.960689668	-0.1115392
POLE2	-0.44417791	-0.51280515	-0.16191817	-0.29120384
CDO1	-0.17641426	-0.74297117	-0.32659079	0.636883117
ITIH3	-0.17687276	-0.94474302	-0.14955883	1.427932756
SP5	-1.16930887	-0.60647473	1.692550056	0.604902577
MAL2	-0.17671074	-0.03593147	-1.06543405	0.338904105
SMARCA1	-0.15775212	-0.14897645	-1.2607967	0.310418274
AP1M1	-0.36320922	-0.54158329	0.866434061	0.035003187
SH2D3A	-0.06220165	-0.88533737	0	0
CLSTN3	-0.34702917	-0.14263637	0.555628696	-0.40762097
RP11-736K20	-1.00805007	-0.62729986	0	0
MAOB	-0.27187357	-0.50486289	-2.15272882	0.518392044
ACSM3	-0.18749289	-1.08892629	-1.52128655	-0.05553252
PITPNM2	-0.48013077	-0.65254067	0.395601177	-0.12027729
ALDH6A1	-0.38489841	-0.95685424	-2.32477743	0.269798749
EPB41L4B	-0.0826497	-0.4055006	-1.48429374	0.423200309
SCLY	-1.07964622	-0.15225378	-0.09283406	0.541860873
OAF	-0.52814481	-0.72171453	0.847582659	0.33117069
ALDH4A1	-0.47580799	-1.00831378	-0.33564559	0.141838529
ARRDC1	-0.52138906	-0.47714318	2.990251031	-0.68397362
KCTD21	-0.34297509	-0.56146811	-0.51214728	0.312665918
MTSS1	-0.19510625	-0.3383132	-1.34296732	-0.11049268
RP11-273B20	-0.76603378	-0.29070261	0	0
RBP5	-0.5074025	-1.33154462	0	0
AGL	-0.13892479	-0.2584053	-1.74233287	0.403262825
AKT2	-0.47148654	-0.54488782	-0.39340418	0.186806474
DHRS1	-0.60010248	-0.81540492	0.090543857	0.35348514
SS18L1	-0.45106035	-0.28580329	-1.14838361	0.114264606
LDHD	-0.65891188	-0.95056606	-0.22490965	0.318725747
CNGA1	-0.17867747	-0.77377703	-0.14622646	-2.1705831
CYB5A	-0.09117741	-0.94241306	-0.47941346	0.163295008

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GPD1	-0.53575567	-0.60968965	0.166464994	0.636987918
CRLS1	-0.20436687	-0.17181501	-0.27399503	0.566922322
EEF1D	-0.13428722	-0.53718877	1.306221248	0.239191655
RNF43	-0.74609979	-0.2049906	0.261325873	0.235747948
SND1	-0.00203854	-0.13960798	0.181510483	0.218435827
STARD10	-0.57276771	-0.73704566	1.859549092	0.464751927
UNC119B	-0.25380792	-0.30897855	0.416633742	0.163717477
CYP4F2	-0.36045997	-0.62944681	-0.6359834	0
RAPGEFL1	-0.00239378	-1.08691723	0.148413363	-0.45368472
CCS	-0.49443009	-0.85795208	0.856597364	0.126366793
C1RL	-0.13229616	-0.98484046	-0.47649523	0.139194688
RABEPK	-0.2636037	-1.44311962	0.222917952	0.347129754
SLC25A1	-0.60905518	-0.61217066	-0.08175965	0.6427495
XRCC5	-0.35313783	-0.49939172	-0.53846462	0.178249614
RTTN	-0.55806435	-0.56112151	-0.18359583	-0.30765485
AC091729.9	-0.37236568	-0.33586159	0	0
ZFAND2A	-0.21742422	-0.50420706	-0.05441296	0.02362571
FAM50B	-0.42153988	-0.51363646	1.81131769	2.2735793
ZCCHC24	-0.17894189	-0.66392385	-1.74206427	0.036693211
KIAA1161	-0.58070193	-0.21244501	-0.69259857	0.752757637
Orai3	-0.61091595	-0.71333185	0.737057791	0.225511905
RTKN	-0.31297368	-0.75354601	2.597154009	-0.03659894
ARVCF	-0.25776641	-0.5305933	1.905100627	-0.49761871
RANBP10	-0.44671	-0.15976826	-0.23094044	0.321424936
GGCX	-0.35753643	-0.29633656	-1.17526956	0.425197586
RAI14	-0.07972112	-0.28490066	-0.68173902	0.11360125
SEC24B	-0.09487704	-0.35842347	-0.37224824	-0.10759558
DHRS4-AS1	-0.52475691	-0.55896136	0	0
HGD	-0.35878196	-0.350345	-1.00708728	0.324993934
AK2	-0.16295448	-0.23871102	0.093294213	0.215400617
COMT	-0.18096877	-0.58405637	0.757679301	0.310580422
RP11-390F4.1	-0.77075652	-1.06407999	0	0
IGSF8	-0.51010641	-0.63304243	3.14539471	-0.46399986
CNNM3	-0.5357055	-0.31557983	0.125173439	0.113170885
CDA	-0.18017056	-1.16763043	3.805225862	0.005384301
NIPSNAP1	-0.32977211	-0.5501257	-0.7603948	0.292077669
MARC2	-0.29551764	-0.90581941	0.077117995	0.126590341
RMDN2	-0.16407356	-0.76096038	0	0
CDHR3	-0.42393349	-0.50445259	1.702187068	-1.84567841
CDKN2AIPNL	-0.2501421	-0.61219483	0.666830905	0.261673911
HMGCS2	-0.51161936	-0.95288541	-0.19486523	0.113717139
RUNDC3B	-0.12603728	-0.29779997	0.104563551	-0.36998818
PAQR9	-0.14636922	-0.07822544	-0.96897232	1.168992177
PGM1	-0.47498436	-0.81038452	-0.70871111	0.467082941
CLU	-0.35188411	-0.89453091	1.345006854	0.354722898
METTL7B	-0.0262913	-0.11145938	0.847525283	0.346557938
OGFR-AS1	-0.81148179	-0.47865038	0	0
OGFR	-0.09167407	-0.33567436	1.543076959	0.506863441
CNP	-0.14064985	-0.16671442	1.050621433	0.085587015

Table S7

ALDH2	-0.2450598	-1.21905795	0.832167125	-0.21119086
SMARCD2	-0.11194545	-0.43592284	0.13706474	0.164433486
SLC47A1	-0.53450149	-0.97880953	-1.34514051	0.169919586
MYH14	-0.43920616	-0.10483396	2.019104986	-0.07675168
SNTB1	-0.05112808	-0.45770179	-3.40623768	0.217046392
ZNF3	-0.26090674	-0.03641455	0	0
PHYHD1	-0.50156338	-0.85436303	-0.68577419	0.20933336
CSAD	-0.67536946	-0.31910446	0.581288877	0.361037643
ACSL1	-0.23042221	-0.74203104	-1.84455824	0.378280344
CLDN15	-0.53244456	-0.52282538	5.469574579	-0.00660456
ZER1	-0.50581496	-0.15318588	0.596670285	-0.0408556
RP11-384L8.1	-0.5545044	-0.92011913	0	0
CMTM8	-0.6823316	-0.83866236	0.461617953	0.227280379
LRP1	-0.33361829	-0.48620276	0.083306979	0.230791296
PKP2	-0.11010405	-0.37567763	-0.35857822	0.571795207
SLC25A27	-0.00858287	-0.11575953	1.614062024	-0.58160061
CYP39A1	-0.16475563	-0.36884305	1.693663284	0.400273214
RNF220	-0.26617305	-0.12581337	1.281298608	-0.08010066
RP5-1033H22	-0.48556974	-1.05283657	0	0
ECI2	-0.22460245	-0.86098402	-1.56844139	-3.72333767
SIRT7	-0.3233897	-0.3420124	0.739241002	-0.06708959
FZD4	-0.1981602	-0.38083081	-1.22512062	0.215680344
SUV39H1	-0.5763003	-0.44670947	-0.61505082	-0.01023166
TCF7L1	-0.1799368	-0.28271731	1.170916194	-0.66281991
CHST13	-0.89177197	-0.61902947	0.294194829	0.844669208
NFIC	-0.27189754	-0.37267128	0.375770164	0.030550402
PC	-0.29160991	-1.17632304	0.673272199	0.157581308
SESN2	-0.32828331	-0.55331287	0.840246705	0.007664631
AFMID	-0.49801886	-0.78466857	-1.96018452	0.067092856
NR0B2	-0.21821663	-0.74988167	2.010790365	-0.04288177
SLC12A7	-0.34208224	-0.1356076	-0.6469558	-0.06878134
CAPN5	-0.4033786	-0.51007466	1.317492521	-0.15267142
THRB-AS1	-0.36720374	-0.41791686	0	0
ABHD6	-0.1015885	-0.7656913	-0.37415986	0.136053731
ATXN7L1	-0.0145751	-0.30378261	-0.88440011	-0.13332301
TALDO1	-0.24767501	-0.78271113	1.410679326	0.42807833
DGCR8	-0.27555124	-0.14939869	-0.70079596	-0.0205326
ATP5SL	-0.33080778	-0.40326734	-0.04346006	-0.24135963
ZBTB42	-0.33223844	-0.36217411	1.336172006	0.209351582
AKT1	-0.12136597	-0.03562776	1.715983436	-0.29820626
PANX2	-1.05063915	-0.39582192	4.594807693	-2.01544048
MTFR1	-0.16423046	-0.36601861	-1.35516483	0.357613874
SHMT1	-0.95748502	-0.27885397	-1.30607816	0.360082191
GCH1	-0.36003341	-0.26825249	-0.67075574	-0.15324311
F12	-0.61410815	-0.70508875	0.814596232	0.405561967
MTM1	-0.01754821	-0.09779642	-1.6293212	0.179664875
NME4	-0.54279338	-0.73919801	2.038055623	0.069220804
SLCO2B1	-0.57184593	-0.17415803	-1.01840302	-0.05504877
RASSF7	-0.36910342	-0.8050493	1.654448506	0.124724727

Table S7

RP11-655M14	-0.14550184	-0.09514789	0	0
TBX10	-1.13049769	-0.70421272	0	0
NUDT8	-1.49847795	-0.91917749	0	0
PSMA7	-0.22669379	-0.57109765	0.839753706	0.339615771
TRMT2A	-0.48289986	-0.79773337	0.976037816	0.078959422
EEFSEC	-0.37402267	-0.47734615	0.517233002	0.533413645
HLF	-0.10748365	-0.19107919	-1.35321048	-0.07818146
PEX16	-0.42734208	-0.78543505	1.062633581	0.248407593
PARP10	-0.19436102	-0.4484908	1.048978431	-0.00927603
RP11-134G8.	-0.12783833	-0.42461731	0	0
GRTP1	-0.60611273	-0.95303413	0.835272449	0.15801091
HDLBP	-0.14432791	-0.63828812	-0.97234768	0.621178204
MAVS	-0.37338731	-0.2275035	-0.71060657	0.113459428
EPN1	-0.43365549	-0.62992085	1.253402748	0.316027501
IRF2BP1	-0.42333204	-0.6221342	1.595265808	0.019644743
GPR75-ASB3	-0.15543723	-0.66256616	-0.68920518	0.378535703
TMEM80	-0.52025025	-0.08655757	0.078423491	-0.05554496
C16orf70	-0.44378911	-0.25961305	-0.57205608	-0.05569468
SLC35D1	-0.28339417	-0.16921591	-1.15791111	0.460476356
SCAP	-0.50545673	-0.21284561	-0.07020301	0.178437669
MDN1	-1.05286174	-0.53708268	-1.48412412	-0.16491655
ADCK3	-0.36461965	-0.51763721	-1.12041668	0.686507425
HSD11B2	-0.36083317	-0.71740565	1.592042811	-1.78110708
PHYH	-0.27412928	-0.53346132	-1.33952641	0.197979479
MMP15	-0.3303784	-0.36468617	1.07605296	-0.54300191
HOGA1	-0.65393367	-0.94213665	-0.04547694	0.098159949
RHCE	-1.55564776	-1.00908741	0	5.405284777
ARL6IP4	-2.03428444	-0.27072871	1.809170058	0.098088305
AQP3	-0.3528123	-1.10181191	3.309573109	-2.04933029
LRR1	-0.20406273	-0.25479093	-0.59880382	1.89503555
SETD1A	-0.21076718	-0.13777425	0	0
TMEM57	-0.1765725	-0.52275641	-1.00926874	0.361224519
EPS8L2	-0.5632656	-0.41341366	1.233425543	0.218775029
AP000355.2	-0.37559045	-0.44169068	0	0
GPAM	-0.34373559	-0.59624817	-3.48403241	0.271022858
FOXA3	-0.09840643	-0.3723538	0.179672385	0.310516764
PIPOX	-0.3791097	-0.67558097	-1.71133727	-0.08279865
EPHB4	-0.73796153	-0.42942632	1.346683007	-0.11378486
TMEM192	-0.22265003	-0.54736054	1.142861769	0.234902807
ANG	-0.36225448	-1.24858536	0	0
SMPDL3A	-0.21452152	-0.55704711	0.063182874	-0.32270712
NT5DC3	-1.18788436	-0.37112618	0	0
WDR81	-0.63466213	-0.28957769	0.660153175	0.166841117
RAP2C	-0.18716392	-0.00925047	-1.39549748	0.208586415
RP11-350G8.	-0.44483067	-0.21784855	0	0
EPB41L5	-0.10746465	-0.41755287	-1.18928906	0.386102189
CERS2	-0.31848739	-0.45482055	-0.82165747	0.320449929
GTF2IRD1	-0.40105621	-0.2883253	0.463011775	0.027636843
PEX19	-0.25189527	-0.54810423	-0.65622249	0.174438863

Table S7

AKAP1	-0.24917411	-0.47800008	-0.76396159	0.191473091
SH2D4A	-0.10061868	-0.28585087	1.113822077	-0.24542284
NR1H3	-0.4650762	-0.68817094	0.812945362	0.12937213
PDIK1L	-0.20859359	-0.03174983	-1.7333156	0.293676568
ANXA9	-0.3007713	-0.63743673	2.2928718	-0.45997582
PFKFB1	-0.3297327	-0.44200144	0.403612537	0.187269597
KANK2	-0.00637189	-0.38191586	-0.12852561	0.107234883
SHH	-0.26822776	-0.45890702	-2.16663755	0.257278378
TMEM101	-0.54529918	-0.46586506	1.541413786	0.057109208
RXRA	-0.57915104	-0.69315154	-0.08779213	0.180950246
HPCAL1	-0.32247245	-0.48823218	1.172660884	-0.37900549
C1RL-AS1	-0.4031912	-0.11197287	0	0
KIF1C	-0.30583385	-0.48631973	-0.2171284	0.330805596
IDNK	-0.43685108	-0.96508025	0.316402559	-0.0242497
SIVA1	-0.44212158	-0.58775093	2.796533789	0.128500991
ELK1	-0.18653408	-0.30904162	-0.60000592	-0.17635459
IL6R	-0.51172412	-0.69087763	-1.52245202	0.050230795
NEIL1	-0.51310013	-0.60761121	0.952554416	0.129057032
SERPINF1	-0.37117075	-0.85545096	0.144772245	-0.19908239
FCGRT	-0.29415287	-0.86959944	1.306387738	-0.26875955
AGFG2	-0.3857784	-0.53938538	-0.26316735	0.446899028
MUM1	-0.29462687	-0.24667722	0.909793174	-0.26679508
ABHD14A	-0.50505346	-0.7321509	1.120512151	0.585822565
CLASRP	-0.38266283	-0.50477986	0.589909066	-0.26330925
MLX	-0.06171253	-0.54230894	-0.57474698	0.545632578
ACY1	-0.78836943	-0.29907273	0.132530764	0.288427905
STARD5	-0.65785772	-1.14394873	-0.71249542	0.304776591
FZD5	-0.46822604	-0.29838551	-1.28295822	0.133409345
DCAF8	-0.32164758	-0.03471504	-0.81193308	0.192444366
ZNF408	-0.49968848	-0.72027103	-0.32242888	-0.07612802
ALG3	-0.41543287	-0.4340948	0.818493756	0.398376264
WIZ	-0.33396361	-0.30560844	0.856788842	-0.23451272
BAIAP2L1	-0.09247763	-0.03703269	-0.45185583	0.443900572
CTIF	-0.31886855	-0.19729717	-0.10546325	-0.29912066
MACROD1	-0.7854302	-1.11026378	0.950866082	-0.51985207
WWC2-AS2	-0.05574677	-0.57817769	0	0
COASY	-0.5411099	-0.5848204	0.397533909	0.265896299
GLTPD2	-0.47183007	-0.78575977	0.804039103	-0.15133196
SEPHS2	-0.26447989	-0.58755185	-0.64046221	0.533498829
CES2	-0.43653655	-0.50376579	-3.02479034	-0.60767138
FAM96B	-0.31426783	-0.62071107	1.748421798	0.158723233
SDC1	-0.53089136	-0.28312604	-0.2544415	0.603311406
ZBTB39	-0.42725195	-0.18017481	-0.62421237	-0.11712664
HDAC4	-0.01889815	-0.04123695	-0.09490809	-0.1481363
SLC23A3	-0.4694491	-0.34189188	-0.64212112	0.521596107
XBP1	-0.21203888	-0.64338239	0.575668713	-0.09628895
C1orf220	-0.51605862	-0.07522294	0	0
AP000253.1	-0.45762267	-0.95598159	0	0
SLC35A3	-0.13580919	-0.29729484	-2.03714678	0.09646653

Table S7

PPP1R26	-0.33959534	-0.15350603	1.867033291	-0.93316473
PCTP	-0.47305587	-0.58680456	-0.60041708	0.55851191
RPS29	-0.50746231	-0.74876292	0	0
LTB4R2	-0.78529867	-0.19171203	0.116970461	0.594943542
LTB4R	-0.14117993	-0.51105234	0	0
KIAA2013	-0.33611305	-0.71935041	1.363790292	0.077853852
SOD1	-0.38188811	-1.13750954	0.363832432	0.178446093
NFYC	-0.40322663	-0.2823925	0.545109758	0.312579431
DDI2	-0.26501855	-0.10414184	0	0
PLA2G12B	-0.33609868	-0.24967584	1.111064838	0.624652573
GSDMD	-0.26566136	-0.71032433	0.660077411	-0.04766632
C2	-0.43010503	-0.74550567	0.432755131	-0.18939178
ENKD1	-0.4336344	-0.69920602	3.913006996	-0.4355545
SUN2	-0.3193	-0.70151874	0.449312393	0.11986572
NUDT7	-0.67299883	-0.06053779	-1.66038345	-0.28085022
CDON	-0.17417905	-0.25131599	-0.59650874	-0.70911766
PEX11G	-0.75326014	-0.85260055	0.351297575	0.366963097
UPB1	-0.31730085	-0.93689637	-0.84848305	0.529723698
COBL	-0.46058831	-0.4283517	-0.57320445	0.317947739
CTNNBIP1	-0.32431987	-0.41035633	-0.08644239	0.211893202
FAHD2A	-0.55735417	-0.75915869	-0.07411674	0.037561222
RAB40B	-0.29192022	-0.29506683	-0.58228968	0.049223473
NAPA	-0.08430694	-0.44407586	0.978808587	0.235181051
ATP11C	-0.39617246	-0.4962611	-2.33750693	0.581151161
RBL2	-0.20168548	-0.16035525	-1.67846187	-0.08335519
TPCN1	-0.21429752	-0.07522231	0.063680785	-0.02602667
KLHDC2	-0.27129911	-0.60014535	-0.2091631	0.170424912
MCEE	-0.26261042	-0.91583576	-0.09097058	0.290536007
SLC37A4	-0.42051263	-0.64756701	-0.34627389	0.255430989
VAMP8	-0.04124425	-0.31469545	1.279502272	0.128464891
SLC25A44	-0.07027797	-0.15946619	-1.00331614	0.208155127
AKAP8	-0.15221767	-0.1659523	-0.7323752	-0.14186242
ERMARD	-0.35375068	-0.2645623	0.107259007	0.127130949
NELFB	-0.1932114	-0.27752446	0.317020669	0.053328531
GRINA	-0.28755742	-0.90864838	1.562639821	-0.06423197
FAM35A	-0.10296709	-0.1014984	-1.73588231	0.034967798
RPL41	-0.23737562	-0.80139547	0	0
ZNF490	-0.23522866	-0.31706731	0	0
RP4-605O3.4	-0.28502358	-0.35084467	0	0
COX14	-0.34821437	-0.63087117	2.16322072	-0.05392273
PMF1	-0.39775619	-0.80458549	1.50353479	0.109678308
DNAJC25	-0.25762024	-0.64147023	0	0
MTMR4	-0.40478159	-0.43779279	-1.41357181	0.330107149
CRTC2	-0.16805163	-0.39075913	0.051774547	-0.00676647
MCCC2	-0.15512234	-0.33812014	-0.8914384	0.241907332
ZNF787	-0.21183223	-0.73290527	1.228093476	-0.10028135
NPRL3	-0.63905097	-0.4240141	0.493287577	0.10583806
RAB11FIP3	-0.4018239	-0.53544997	0.134363183	-0.39642711
PLXNB2	-0.43701967	-0.104864	0.169916995	0.020986365

Table S7

RP11-1055B8	-0.79697501	-0.3707819	0	0
TPRN	-0.56487501	-1.21245671	1.298624537	0.354716137
DBI	-0.36681827	-0.86292699	-0.33356865	1.295276307
ABCB6	-0.05404276	-0.63321618	-0.76201542	0.426527352
COG8	-0.47126734	-0.54624387	0.3170646	0.290269657
SLC27A3	-0.23002387	-0.04362002	0.96503747	-0.65199983
RP11-1275H2	-0.58323387	-0.57930325	0	0
RP11-1275H2	-1.30938908	-0.76438517	0	0
ZNF689	-0.28699723	-0.29221572	1.031655722	-0.2637842
ATXN2	-0.21240771	-0.1043643	-0.42453146	0.233044846
OGG1	-0.55956259	-0.3955881	0.718960288	0.012625895
ILK	0.206537515	1.201757253	0.436354179	0.207250583
HIPK1	0.608514521	0.598429762	-1.70879186	0.142904565
AFTPH	0.225512052	0.127688809	-1.19302899	0.306962105
EZR	0.635199639	0.532232931	2.028382895	-0.6115459
ATM	0.237124483	0.464619915	-3.38541735	-0.22074257
PLEKHA2	0.448332168	0.280240901	1.177939345	-0.64294528
DCHS1	0.248940223	0.605862334	1.23623779	-0.76766523
C15orf39	0.418756075	0.436175395	1.231489753	0.079799598
GAL3ST4	0.815096334	1.264082083	0	0
CASP8	0.066829063	0.562317383	-0.08585659	-0.02735524
GGPS1	0.285717789	0.040890424	-0.86009204	0.139414804
PPARD	0.341979948	0.075758607	1.504500218	-0.44063782
PRPF38B	0.299852852	0.464761892	0	0
HIVEP2	0.796412706	0.539580281	-1.21454012	-0.14966072
DENND3	0.196939408	0.702035323	0.321808537	-0.09956001
ADD3	0.364048863	0.724203041	-0.75229993	-0.46783887
RP11-356I2.4	0.361744004	0.533498229	0	0
CTC1	0.052220014	0.106348505	0.236746275	-0.26250088
CREB1	0.312147403	0.467092783	-1.3697563	-0.0306265
SSH2	0.767238974	0.605257178	-1.11078348	-0.1479106
MAP3K1	0.194611611	0.915780821	0.342839132	-0.11606534
CACUL1	0.39138009	0.10271989	-1.21912021	0.381475018
FGD6	0.3402925	0.971665334	-1.82888659	0.164066359
OSTM1	0.461152636	0.223340488	-0.16681523	0.306230349
NABP1	0.956656265	0.572596089	-1.61621439	-0.05247658
SLC43A2	0.407430889	1.030523542	0.998570294	-0.70507246
TUBA1C	0.661210525	0.014375581	0.563451754	0.58945892
GNA13	1.473953056	0.631577646	-1.0442863	0.075202703
SPAG4	1.395309509	0.10267052	-0.3150625	0.250123431
PARP8	0.61367357	1.048613009	1.382465005	-0.76162867
SYT11	0.83927617	1.560295782	1.104662812	-0.47030767
GON4L	0.083443573	0.395870578	0.299010499	-0.13533833
RAB34	0.427329739	0.911291178	2.628323027	-0.45621876
ARL4A	0.911524432	0.249326538	-0.54839646	0.524243183
LEPROTL1	0.346607162	0.189425133	0.72080405	0.331830228
YWHAH	0.582616201	0.382638921	0.443008959	0.076907117
HIVEP3	0.502124412	0.677390703	1.605859802	-0.4707147
CHMP4A	0.171802755	0.489004797	0	0

Table S7

ARPC5	0.364655785	0.329816316	0.021409834	0.270991346
ANXA11	0.179475818	0.112298631	-0.07918532	-0.48337686
OGFRL1	0.840871555	0.963523528	-0.68599493	0.295304456
KLHL5	0.129158133	0.584080577	-1.2097025	0.293694266
IGF1R	0.099475142	0.587981055	0.336058707	-0.3151635
COL4A2	0.949534604	1.655889997	2.117296616	-0.78030922
PAK1	0.281390504	0.475278109	1.604974868	-0.36879235
JUN	2.076863653	0.727721182	1.248507507	-0.23296058
MTMR11	0.536280589	1.568547773	2.825428275	0.444435764
LINC00857	0.25505238	0.39503956	0	0
PDCD4	0.36606973	0.457650007	-0.80485571	0.594928247
ANKRD53	0.56454276	0.050439851	0	0
FHL3	0.45196514	0.611754846	2.16938254	-0.08237766
CD63	0.183209949	0.000898267	4.441226598	-0.40185801
F2R	0.606628883	0.771263767	-0.17389753	-0.2972033
MAP3K8	0.767646941	0.504899957	0.508722191	-0.43997095
SERPINB9	1.531728388	1.322074766	0	0
PRDM2	0.314824473	0.464742445	-1.82957587	-0.15102146
PRKCH	0.323655375	0.736827047	0.499690839	-0.2460966
IFFO2	0.261615038	0.449662005	-0.52996997	0.09255635
ZNF160	0.37977823	0.580422404	-1.63356111	0.106533377
ZNF397	0.06935928	0.176886788	-1.43506273	0.16608209
TCP11L2	0.321910921	1.110552485	-1.30203117	-0.01252704
ACER2	0.69550955	0.828428896	-0.57286892	-0.11771161
U73166.2	0.21879076	0.014992553	0	0
GPRIN3	1.082847897	2.629476209	-2.90429849	-0.05316115
SERAC1	0.139840604	0.330493919	-2.2821618	0.29049065
RNF145	0.983648317	0.541160459	0.096995695	-0.1488882
SH3RF3	1.113262618	0.720688176	1.303332116	-0.75168924
CTD-2201E18	0.688262684	0.759214913	0	0
SMURF2	0.463552708	0.812102288	-1.36878517	0.052704733
CD47	0.262619463	0.476593844	-0.10113117	0.108023851
MKL1	0.228638751	0.156274647	1.651767734	-0.39168785
MAPRE1	1.178227956	0.497017683	-0.53487108	0.062129259
BCL2	1.403259237	1.94661952	0.860738927	-0.83633655
ARHGEF2	0.208814974	0.798301994	2.320199573	0.115406888
TSPYL1	0.138392978	0.017065875	-0.62382894	0.182604383
RALGDS	0.756280908	0.739960894	2.654461212	-0.97076562
USP37	0.015454371	0.634064541	-1.19727115	-0.08813498
GNA12	0.543453086	0.206836723	0.828546391	0.140181826
RUNX2	0.920351095	1.668513628	2.100639086	-0.81779902
IQGAP1	0.966330993	1.193505327	1.304045854	-0.52060338
CDC42EP3	1.682714538	1.079808024	0.70670548	-0.78692398
CCNG2	0.663122687	0.736043337	-0.91962554	0.38346864
PAFAH1B2	0.399952815	0.30824201	-0.55841233	0.141036976
DUSP5	1.500859474	0.332755313	1.936628499	0.236562128
RNF24	0.935015457	0.330786608	-0.21561562	-0.01705827
PLA2G4C	0.987351591	1.075158185	-0.55864009	-0.05501696
ITGA6	0.596316294	1.114795722	0.223493844	-0.83318171

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SLC12A2	0.708437742	2.003922483	-2.03452133	0.039157498
GYPC	0.597607207	0.542287422	-0.52403675	-0.14526462
IL2RA	2.81534655	1.91487976	0.470495552	-1.51807042
SLC25A12	0.587594598	0.576291574	-0.43427512	0.061056267
ZNF304	0.05379419	0.337194066	-0.6359834	0
RAP2B	0.554509402	0.498228878	1.658933149	-0.33432057
FAM129B	0.71840143	0.620395401	3.555077308	-0.55457236
CAPN2	0.659004121	1.330769891	-0.17401557	-0.04431659
AAGAB	0.205323825	0.213661318	-0.57143974	0.19697328
KIAA1462	0.422202106	1.004981734	-1.06219106	-0.02194165
SNN	0.528547672	0.500760771	1.365190122	-0.74422449
CTB-55O6.12	0.139965007	0.139916973	0	0
MDFIC	0.636515806	0.692793996	-0.12627961	-0.18556486
IGFBP7	1.078827591	1.251169111	2.728737479	-0.78851611
PLCD3	0.067027123	0.470338647	3.821416425	-0.88410289
NOD2	0.911273438	1.367628708	1.260860138	-0.88104863
STK17A	0.72278218	0.676509609	0	0
POU6F1	0.614432567	0.117209232	0.384839493	-0.41526219
CEP135	0.526709831	0.913939122	-1.5874105	-0.33249279
ZNF829	0.023250074	0.045574395	0	0
AEN	0.932751548	0.423523714	0.600401422	-0.14908657
ZNF568	0.147809386	0.337194232	0	0
TTC16	1.020712013	1.042963353	2.523698431	0.107957159
IDS	0.152184745	0.006205825	-1.20937011	-0.3059826
HSPG2	0.246382264	0.836956386	1.714460849	-0.43016857
ATP2B4	0.699651171	0.734856912	-1.0003289	-0.81737477
HELB	0.623149979	0.519530061	-0.73570561	-0.04777633
FAM49B	0.547997024	0.509490864	0.140131187	-0.04445407
AGO2	0.487702471	0.28633366	-1.33975489	-0.23584519
SYNGAP1	0.268507973	0.823047257	1.064851012	-0.69579643
CDC42SE2	0.390315545	0.634701101	0.191730859	-0.17016097
LY6G5C	0.234929555	0.206509865	0	0
SP110	0.399582598	0.691173088	0	0
REL	1.411256594	0.592448734	-1.57559219	-0.05133732
FAM228B	0.283192301	0.312260494	-1.89675589	-0.0893307
LUZP1	0.831026779	0.792602908	-0.98886072	-0.19791398
CD58	0.748250554	0.699172615	0	0
TULP3	0.277866305	0.033356845	1.619545484	-0.32243427
JAG1	0.758433303	1.642566738	0.573733483	-0.450034
ZNF292	0.119269016	0.415800702	-1.63689976	0.088006582
CTTNBP2NL	1.204072137	1.093322841	0.415386748	-0.72277516
CCNJ	0.38330228	1.305167804	-0.62480268	0.117720178
CCDC28B	0.659070954	0.216803997	1.12646454	0.341068349
ZNF512	0.354417507	0.003177421	-0.15431239	0.003009443
BBS7	0.383074298	0.372274546	-0.69479712	-0.83705231
HSPA12A	0.128109152	0.963325431	-0.32785221	-0.95731322
PRICKLE2	0.90513494	0.26331356	-0.15578203	-0.35777463
RAVER2	0.486696588	1.286625087	-0.1543357	-0.83942255
GRIN2D	0.768362798	1.310668955	1.733286071	-1.6512331

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EGLN3	0.206836354	1.330084093	-0.82836096	-0.31445728
ZNF614	0.418052577	0.156702709	0	0
TIMP2	0.909903874	0.559287598	1.269653541	-0.61477118
MXD1	1.675778292	0.413613145	-0.39580705	-0.0258206
PKDCC	0.661852606	0.544838416	1.403250116	0.264751713
SFMBT2	0.945481097	1.730031501	-2.34073519	0.7275077
PLP2	1.081740065	1.031569486	1.164607375	0.880094294
DYRK2	0.261720118	0.689616989	-1.62140998	0.286155661
LOXL3	0.171722892	0.526657517	1.835930953	-0.73837213
DOK1	0.306624605	0.640044029	3.166640856	-0.7544107
TMSB10	0.372313393	0.650810766	2.606822291	-0.1002198
EVA1C	0.478389682	0.672772669	1.770788297	-0.50846722
SYNJ2	0.019676423	0.496840773	0.415285729	-0.60995602
DNAJC10	0.445264531	0.431203575	0.095319227	0.225849793
FZD3	0.477063719	0.94600639	0.643497932	-0.17730271
KIRREL	0.931828215	1.526480392	0.90575049	-0.75409726
RPS6KA3	0.081673253	0.417765793	-1.1364768	-0.40370396
ZNF347	0.368012665	0.461258233	0	0
HSPBAP1	0.330192723	0.230193624	1.042817147	0.067397568
TP53I3	1.283631646	0.488998972	0	0
ANKRD44	0.535878988	1.622782005	-0.73848869	-0.55416775
STK4	0.547495983	0.660382073	-1.01817653	-0.15496929
PHACTR2	0.407162469	0.466857225	-0.42918927	-0.58648226
RP1-111C20.	0.218470594	0.46857668	0	0
HMGNA4	0.893883423	0.850347065	0.902852231	0.50227544
ZNF548	0.311922546	0.43044118	-0.6359834	0
ETS1	0.600479875	0.918438111	-0.69907738	-0.41721392
PDE7A	0.28444456	1.472260107	-0.94086287	-0.02458127
C1QTNF1	0.898957532	0.055703791	0.652007037	-0.63396413
NF1	0.173341151	0.280247847	-1.50233995	-0.00101841
PMP22	0.870698159	1.052001521	1.193549305	-0.32730645
TAGLN2	0.843099215	0.316643094	3.053456063	-0.3917972
ANTXR1	1.403257262	1.859461691	0.288634082	-1.13113586
NXPE3	0.825774433	1.189796667	0.215499044	0.018688768
UBASH3B	1.068913685	1.45447119	0.994932828	-0.4612511
SLC41A1	0.989207331	0.123770004	0.340815739	-0.49076626
TMEM217	0.6143299	1.925494015	2.358469277	-1.95454533
PPP1R12B	0.572489447	0.526730179	-1.33123912	-0.77262325
PAG1	1.190876372	1.183985849	-1.37902933	-0.20184141
LINC00092	0.4940757	0.691000219	0	0
ANKRD36C	0.174920826	1.494585785	0	0
SLC6A9	1.672948589	0.702794983	0.599377839	-0.16693639
QSOX1	0.74741397	0.534409306	0.08436965	0.873982144
HMGCR	0.308296819	0.202054391	-1.9888148	0.970707689
PAPOLG	0.875223088	0.474366874	-1.62396509	-0.40858646
MPP3	0.349176453	0.642146348	-0.09847681	-0.74127803
AMIGO2	0.748732972	0.704360986	-0.05899657	-0.17105518
PDE4B	1.457745945	1.574195476	-1.66304196	-0.04775133
TMEM185B	0.825788598	0.739674506	0.051828354	-0.27522161

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ALOX5	0.383006739	0.906504572	1.592957024	-2.60868989
PRKX	0.957081926	1.296867129	-0.40709374	-0.40434914
C10orf128	0.236208242	0.391991036	1.873775998	-0.59475118
DDHD1	0.534532697	0.983351652	-0.65439676	-0.40930038
RFX5	0.420737351	1.080513914	-0.37841457	-0.17802702
PAM	0.843895405	0.600190161	0.231157961	-0.61032978
ARMC2	0.591703857	0.466729815	2.625052766	-1.65408982
EMP3	0.682402112	0.567126126	3.861439102	-0.51010362
PRTFDC1	0.727373326	0.467318284	0	0
NFKBIE	0.760389346	0.837856501	2.648804542	-0.54488938
KIAA0556	0.064353905	1.018507738	-0.61579524	-0.06799827
WIPF1	0.796000038	1.563411664	0.582035911	-0.62289764
UBE2Q2	0.760722559	1.235568477	0	1.262570035
DNM3	0.062197319	1.366634502	-0.71764811	-1.65639594
PACS1	0.715308983	0.906465558	1.263012013	-0.69419383
STARD3NL	0.393289207	0.317013568	0.284379543	0.089340831
ABR	0.73744398	0.957952915	1.633512556	-0.81375026
MAFK	1.575205563	0.547531423	0.754702647	-0.17496302
EML2	0.283485161	0.190616503	1.521087122	-0.56349831
HECA	0.753868875	0.454805838	-1.51568505	0.21893614
FHOD1	0.292893102	0.515954235	1.710989336	-0.8840062
ZNF611	0.372163916	0.850663381	0	0
FAM188B	0.753743353	1.046385899	0.911010226	-0.18264424
FKBP10	0.525846356	0.593156677	2.932066341	-0.72629667
CEP85L	0.928824297	0.715739029	-2.93536808	-0.06865869
CAV2	0.684934604	0.158278096	0.365745293	-0.1864565
PRDM1	1.677332499	1.928333174	1.180114888	-0.56235547
TMEM184B	0.488429026	0.255788514	0.863103139	-0.01009032
IER5	1.342771209	0.812188076	2.234654083	0.257027684
GPRASP1	0.117266682	0.256034208	-0.59171416	-0.66554115
ANK1	1.180982334	0.878032443	-4.43893353	1.362589109
GAS8	0.206786375	0.120593873	1.904581155	-0.099063
HIST1H4H	2.537506019	1.491112869	0	0
PIP4K2A	0.614293283	0.692749292	0.799184888	-0.5885223
FAM57A	0.745939254	0.251528048	-0.18712292	0.217869398
ARF3	0.10134261	0.283156688	-0.31041483	0.005606564
STXBP1	0.928345341	0.81656919	0.70524409	-0.63452383
SYTL3	0.914614101	1.2764173	3.366657791	-0.69187179
SCLT1	0.587978914	1.009908079	-0.90745223	0.046252965
TPM2	0.392759858	0.568615062	-2.70140397	-0.93933016
ARRDC4	1.13193647	1.053753981	-0.74628053	-0.1665651
RUNX1	0.834956904	1.154318776	1.861713869	-1.10516458
LHFPL2	1.382728066	0.907107227	1.420720621	-0.91480908
CUEDC1	0.152164759	0.150517502	1.519803944	-0.85833417
SEL1L3	0.980156512	2.139884142	-0.04079911	-0.0592296
ZC3HAV1L	0.749544194	1.505007104	-0.02992562	-0.57589791
DACT1	1.390663693	1.103494963	0.330243162	0.321222378
ANK3	1.308800262	1.028029703	-1.40052195	0.162691336
BIRC3	2.631675691	1.913215965	-0.46519799	-0.32329277

Table S7

APH1B	0.757270952	0.924328887	0.375953389	-0.51268237
PDE4D	1.396158169	1.717939224	-1.7735355	-0.23205109
CMTM7	0.835509635	0.726521584	2.974797235	-0.38323212
TYROBP	0.322367241	0.239741423	3.835617088	-0.55002251
GLIPR2	1.098202965	1.491678529	2.059322545	-0.49137439
IKZF2	0.667169327	1.029833663	-0.0474579	-0.91084651
CACNB3	0.765884206	0.886438471	4.039799951	-0.96824215
ARHGAP27	0.094224145	0.913963653	2.637517657	-0.83262236
MMP25	1.090406135	0.699040384	4.483764495	-3.17770423
ABCC4	0.66911247	1.899637015	1.163017923	-1.04546758
PPP1R2	0.378987921	0.458641792	-0.75542122	0.11968184
PHLDB1	0.91313018	1.109551319	2.46334694	-0.89030905
MEF2C	0.807088734	0.713868554	-1.80717907	-0.82807915
CEP97	0.071776566	0.700353279	-0.52654935	-0.60078298
ITPKB	0.86832817	0.967113163	0.071314042	-0.65280104
METRNL	2.230292008	0.437100254	2.751828171	-0.12813503
COL4A1	1.139606821	2.086432549	2.352602131	-0.74598759
DBN1	0.583408718	1.260038911	2.528306222	-0.57452628
TNFAIP8	0.80950373	1.416672306	1.469301288	-0.71688848
CHST15	0.581251601	0.220662511	0.107601561	-0.76183054
HID1	0.270092333	0.360719241	2.477642255	-0.24166544
FBLIM1	0.805131856	1.02393784	3.379962805	-1.16794401
PCSK5	0.8676775	2.207672279	-1.02756356	0.159087952
ARRDC2	0.835739361	0.967291283	-0.78758251	-0.0113365
MFSDF	0.016164464	1.271478437	0.899072037	-0.5909925
SMARCD3	0.6025623	0.614796113	1.491249279	-0.67714389
MMP14	0.694237036	1.202494422	1.594138284	-0.34194033
STK32C	0.217694011	0.166292154	1.489865161	-0.37662975
BARD1	0.710503171	1.35899544	-0.54943426	0.036576495
ARHGEF19	0.116289359	0.965282245	1.352125225	0.132853356
RP11-344B5	0.317344241	1.65690241	0	0
GATA2	0.536555439	1.411964983	0.913595951	-1.02291639
FAM102B	1.559605239	1.304768032	-0.18707021	-0.71066317
PHF20	0.304034155	0.109638475	-0.52753271	-0.02849471
FOS	2.544570253	1.415206078	0.901815948	-1.27625062
PLAGL1	0.542383863	1.360918788	-0.57816537	-0.53092523
ADAMTS10	0.350678127	0.541581164	2.188299531	-0.98656446
VCL	1.302444459	0.563230935	-0.53223755	-0.1245551
NFKB2	0.766560932	0.734532337	2.89418607	-0.50869292
ZNF267	1.061632623	0.805323077	0	0
ZNF737	0.115025985	0.619777573	0	0
ARHGDIB	0.546290008	0.626562866	2.225127768	-0.51098709
ZNF85	0.604002773	0.909345885	-0.99603891	-1.89250763
GEM	4.402705436	2.33967787	0.540725165	-0.66390121
SH3YL1	0.372728776	1.126780071	0.525679127	0.012266836
TP53BP1	0.314955412	0.272920723	-0.77989731	-0.10843209
CHST3	1.125070617	1.027366091	0.321198056	-1.07153824
MEF2C-AS1	0.670081813	0.730051529	0	0
BTN2A3P	0.333528244	0.966300008	0	0

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RP11-10K16.	0.75617687	0.118980429	0	0
GALNT7	0.664368287	1.057901359	-0.67679338	-0.48307283
PPP1R15A	2.924249925	0.177607944	0.76945589	-0.0954569
CASP1	0.597696417	0.866676026	2.383475713	-0.39463695
FAM131A	0.660102934	0.57597343	1.657408356	-0.25165279
CDKN2A	1.914366723	2.678095551	0	0
CHST11	0.982346625	1.399887064	2.893751733	-1.29598236
NEURL3	0.168964502	1.404380213	1.784536983	-0.79572251
SPINT2	0.74060802	1.678745583	1.413768062	0.145905305
RIN1	2.031402412	0.737316277	1.707668716	-0.32343581
ANKDD1B	0.118463033	0.733052327	0.325794206	-0.49892583
CDKN1A	2.544575016	0.629313038	1.598416604	0.443484885
PAQR8	0.160974843	1.340885687	0.751747403	-0.98759201
RASGRP3	0.493792339	0.936983052	-1.38152273	-0.72065189
PDE3A	0.814381006	1.011478896	-1.15623065	-0.11699403
PDE5A	0.291178998	0.747853187	-0.38215773	-0.67585866
DNAJB6	0.411842905	0.129000938	-0.81697605	-0.06673627
GIPR	0.326947808	2.137448582	0.902862854	-1.46071385
NKRF	0.182973903	0.041582058	-0.89027656	0.075334968
TNFRSF12A	4.288482876	1.97438627	3.016995017	0.441741209
B3GNT7	0.74913201	0.804298229	4.292399701	-1.27906127
SLC1A5	1.245378409	0.893885615	2.19382733	-0.47847185
NOTCH3	0.444863613	1.390804959	0.484156486	-0.98959039
HCG11	0.423145772	1.17627342	0	0
AC092835.2	0.880720102	1.094616325	-0.16808076	0.217916282
HDAC7	0.123737296	0.694856857	1.638490515	-0.68122716
ARL4C	1.132742728	1.393795419	1.753185375	-0.62537132
RPS6KA1	0.449270801	0.533967757	1.67061533	-0.10019908
SLC26A2	0.864163061	1.24209223	-1.38691013	-0.1274229
E2F3	0.944425236	1.639467956	-1.36365033	0.171253725
C10orf54	0.735088271	0.889918734	2.270067259	-0.46636396
NFKBID	1.41753861	0.661845381	3.109732239	-0.87171651
HCST	0.417895244	0.730590703	3.790212947	-0.74377174
ENDOD1	0.684598508	0.96264205	1.288839268	-0.31403627
IMPDH1	0.36778791	0.648319509	2.202662894	0.083004332
ANXA2R	0.90046214	1.074074395	0	0
AC025171.1	0.75573745	1.583295293	0	0
PEA15	0.788437396	0.537757854	1.381711238	-0.37316922
TRABD2A	0.693559808	2.904391707	0	0
FLVCR1	0.457854213	0.852841569	0.364720603	-0.01575599
TUBB6	1.575784788	0.886241196	2.789965789	0.197080033
CHORDC1	0.614424763	0.078602923	-1.04564886	-0.0021195
CAV1	0.548670112	0.522922038	-0.5205675	-0.23609891
SLC35F2	1.257665932	2.502554979	4.411163496	-1.22894059
TNFSF8	2.070054916	1.609547685	2.652358969	-2.00135898
PDP1	0.77886305	0.916591583	-0.05579457	-0.12831322
NRSN2	0.475809925	1.113606024	0	0
FAM167A	1.516944215	2.146495292	-0.62556102	-0.76761001
FMNL3	0.363029645	1.367090221	1.817664054	-0.54381091

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PHF19	0.627492914	0.950010095	0.417615209	0.275216025
AP3M2	0.063473859	0.493852445	0.729342759	-0.36671048
MTHFD1L	1.363702996	0.711104865	1.683303879	-0.71234881
ITPR3	0.114410168	1.487066059	2.104802918	-0.99517568
SYK	0.605778315	1.190669322	1.516473316	-0.72147088
ISG20	1.657766168	1.464649313	2.901312549	-0.06281807
TRIM31	6.437374425	5.287850788	-0.6359834	0
RARG	0.092073388	0.40437792	2.338909831	-0.69968445
TMEM51	0.893015606	1.031575309	2.142876895	0.571641906
RP11-712B9.	0.712924443	0.892563051	0	0
PCBP3	1.826472041	1.156392453	2.130684696	-0.28867433
ARHGAP31	0.740964793	0.881612164	-0.39999077	-0.41793674
INPP4B	1.479815522	2.312810377	-1.06085594	-1.32787338
PRICKLE1	0.461204264	1.353772618	-0.46863054	-0.50959166
SWAP70	0.88337884	0.928714548	0.311192332	-0.41414676
TMEM173	0.637253878	0.810634487	2.455595683	-0.74291456
ALOX5AP	0.739912335	1.440103983	2.309307008	-0.86511554
WNT4	1.511036435	2.684058697	2.880433929	-1.07091728
C5orf30	0.51062975	0.215441894	-0.44383564	0.242491803
MARCH3	0.820371914	1.47102088	0.459302618	0.143844443
PWWP2B	0.110151519	0.138021358	2.71558828	-0.15463028
PTPRH	0.24812856	0.45259034	1.427385237	-1.78066639
TMEM51-AS1	1.11105017	3.411610875	0	0
HNRNPA1L2	0.075530929	0.201172261	-0.27593841	-0.02676901
DBNDD1	0.571484432	0.029530507	0.325793703	0.496063642
ADAM9	0.909533222	0.328265364	-1.656443	0.167986372
AP1S3	0.894903692	0.84644766	0.55872329	0.239423377
GSTM5	0.16131066	1.678663858	0	0
GSN	0.776273901	1.343147179	1.790108994	-1.37958371
PLAU	0.902331187	1.544023315	1.532734806	-0.55545575
RAB8B	0.948956257	0.967612606	1.112505116	-0.5781828
ZNF486	0.411365076	1.212168844	0	0
CHD3	0.384204597	1.12818872	-0.94316699	-0.14957562
RP11-848P1.	0.661668053	0.824320022	0	0
ZNF853	0.933110676	0.563337128	3.274637855	-1.14606384
DLG3	0.754617754	1.505494479	-0.49475932	0.124363434
FGFR1	1.164473972	0.150418908	-0.09954086	-0.61591514
STX11	1.467106915	1.309022039	1.562993566	-0.30459298
ZSWIM4	0.422576987	0.847800831	1.489463798	-0.17288864
CD83	2.036271737	1.857477833	2.146587689	-0.70993473
P2RX1	0.530039265	1.753042378	0.721393876	-2.38295013
SYCP2	0.431580398	1.42290382	0.654845276	-1.51062994
PHLDA3	0.233685638	1.067822369	2.885358436	-0.10047677
SLC25A24	1.014943926	1.397560893	1.008158889	-0.85119962
FAR1	0.834100096	1.127328459	0.014874598	-0.60422752
ITGA3	0.179278654	1.648414918	1.998615961	-0.40192461
IL34	0.558872565	1.430380667	2.392586012	-0.89906008
PPDPF	0.185917786	0.354074834	2.644950416	0.888736211
COL16A1	1.230550369	1.953364954	3.147533591	-1.06447803

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FUT4	0.821707351	1.354324286	1.492307062	-0.76703684
ZDHH1C1	0.465113538	0.116661806	1.824724074	-0.45239607
TPM4	1.293744804	0.816103608	0	0
MCAM	0.583721702	1.67838955	0.509013857	-0.72677192
STAT4	0.22583522	0.046659694	2.08426467	-0.00234417
FBLN5	2.00226715	1.678008132	0.801432139	-0.55402504
HMGA1	0.447393266	0.597363655	2.948144709	-0.12892211
ZSCAN9	0.292797128	0.35681754	0	0
LOXL1	1.162401036	2.900797783	3.802139696	-1.57688249
ENAH	0.745672341	0.907743847	0.783104514	-0.78400951
IFI27L2	0.423106853	0.681411267	1.533202571	-0.00250536
KIF3C	0.73940058	0.806732959	1.297215036	-0.80402926
EIF5A2	1.197231152	1.28856486	0.887402926	-1.37460035
F3	2.719885438	1.794139104	0.361036503	-0.48389335
CD96	1.033591163	2.369405301	1.925544782	-0.74530226
TRNP1	1.487113717	1.6259661	2.672690882	-1.33459633
ITM2C	0.43071074	0.310066972	2.163112089	-0.0327029
CLSTN1	0.466093416	0.7438714	1.703598884	-0.92813973
MTHFD2	2.488153867	1.657689536	0.779096377	1.051908599
LINC00271	0.116938349	0.797903273	0	0
AHI1	0.186695749	0.709417799	0.070415281	-0.02082168
PTGER4	1.102214887	1.719406865	2.446852268	-0.73081845
SRGN	1.94555423	0.903459361	1.225063965	-0.63537593
PARP6	0.257087956	0.486442011	-0.27798535	0.054563408
C1orf116	0.115005527	2.019386931	1.324206149	-0.31361391
CYS1	0.240984479	0.862260489	1.366771217	-0.68056231
ZNF816	0.403440924	0.297700493	0	0
ATP9A	0.30565291	0.765239688	1.193372374	-0.08132922
CYTIP	1.692821081	1.586333658	0.869698467	-1.10493238
C1orf145	0.252255038	0.317449474	0	0
COL12A1	1.472583907	1.412307237	0.399665343	-0.68233481
SESN3	0.123344788	0.962778584	-1.78125632	0.597231428
ALDH1A3	2.379270439	0.79034194	0.913742086	-0.74390117
PDLIM4	2.602219344	2.331891982	3.7548611	-1.20614905
ABCC1	0.610701548	1.17366118	1.153983772	-0.82595914
ARSJ	0.065291442	1.545508546	-3.23379549	0.462863467
RELB	1.2907592	0.988091719	3.670434998	-0.40498094
MYOF	1.319585312	1.944372547	2.131501593	-0.83328059
GSTP1	0.448499146	0.76899259	-0.43718828	0.309344499
RHOQ	1.23945222	0.595583282	-0.60215307	-0.07224149
LRP8	0.966499428	1.450306979	2.381450491	-1.10664815
DAGLA	0.293391531	1.396812362	2.416658589	-1.3794488
LTBP4	0.544332614	0.830066455	2.541957096	-1.68978015
BATF3	0.154265566	0.626364493	3.378549605	-0.57528181
TEAD4	0.874407556	0.29238412	0.121671241	-0.33819356
TP53111	0.257403967	0.343924029	1.536809332	-0.32340627
COL1A2	0.754841678	2.164781518	2.358858358	-0.97687036
RIMKLB	0.508568629	0.880823723	-2.93209986	1.250216077
RIPK3	0.144778024	1.348711861	1.634976637	-0.22868949

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MYO5A	0.88090349	1.339619392	2.529314193	-0.8428894
PYGO1	1.588974881	1.591078679	0.434472327	-1.05426947
ROBO1	0.902924141	1.300314483	1.371327503	-0.03158651
ZNF529	0.56980585	0.375264171	0	0
RAB11FIP5	0.350360486	0.443221942	1.833317975	-0.39488902
RECK	1.077910969	0.736919339	-1.00972631	-0.53148237
BEX4	0.55399773	0.631627508	2.670853029	0.649779099
SFXN3	0.446551987	0.88182714	1.900253123	-0.48894124
PIWIL4	1.135302246	1.318427744	1.869585983	-3.65213243
SPECC1	1.010442841	1.87745928	1.08461155	-0.03887166
PAQR5	0.486198319	2.654955259	1.086330257	-1.71409442
PLEKHG4	0.222400405	1.485052639	-0.34117179	1.115836368
PRR7	1.046103404	1.352966759	2.568225127	-0.80537328
NMNAT2	0.475821787	2.903483235	-0.04377253	-0.95844398
ISYNA1	0.131479198	0.462270536	4.217248829	0.130161826
VIM-AS1	1.26673182	2.246130419	0	0
LINC00982	0.161787673	1.347721165	0	0
GBGT1	0.788947025	1.004393622	0.406581118	-2.09457555
ZNF667-AS1	0.611361088	0.093150948	0	0
ZNF667	0.831329929	0.527161854	-1.17321334	0.209526061
RAB11FIP1	0.210740661	0.534048027	-0.4509305	-0.03357416
ODF2L	0.768170138	1.128815423	-1.29180809	0.147834103
NCK2	0.573570192	0.84340366	2.298019257	-0.95621763
DZIP1L	0.131459586	1.396415119	1.765312152	-1.05051316
SLC38A1	1.194178717	1.756399779	1.420509663	-0.48736525
AKR1B1	0.448711984	0.554663713	1.383422272	0.315325373
SCRN1	0.561662944	1.600809421	-0.14302712	-0.79150925
HENMT1	0.246100636	1.438022946	-0.29123835	-1.46071385
SLC45A4	0.676612313	1.684197447	0.610797872	0.068459871
VIM	1.248606631	1.25909388	2.625892187	-0.65528303
ZNF506	0.486781058	0.822776587	0	0
SLC4A8	0.342220083	1.502239303	0.448000465	-0.95996991
OSBPL7	0.120508775	1.269629031	2.361698112	-0.71657746
MLLT3	0.382141099	1.157209583	-0.52511602	0.239374394
AC144831.1	1.289256442	0.712319173	0	0
RP11-353N14	3.344352158	2.149270413	0	0
TMEM243	0.535027193	0.863030143	-0.34921237	0.387248981
PLD4	0.06463211	0.955610046	2.142321583	-0.6289241
SLC7A6	0.641496445	1.925818393	0.597790617	-0.22356098
FRAS1	0.16173344	1.803626996	-2.25575162	0.09478621
XYLT1	1.235589516	1.484122118	1.542580434	-0.63312086
CHIT1	0.068470527	1.017529761	-0.29123835	-1.46071385
DNAJC6	0.757102477	1.519228134	0.963296715	-1.17268174
BICD1	1.670194456	1.961804749	1.129419741	-0.68203497
CYR61	4.377563338	1.00498692	-0.45295493	-0.3162833
ZNF426	0.284035697	0.919765101	-0.60165027	-0.13903798
OBSCN	0.665295285	0.777743154	-3.66502983	-1.46748569
CLCF1	2.853108714	1.157369215	3.382167877	-0.97853894
S100A11	0.814997288	0.723766999	3.171838688	-0.02519354

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SLC6A6	0.760510931	2.057664186	-0.84418516	-0.15386696
CARD16	0.696740887	0.81455667	2.383475713	-0.39463695
C7orf31	0.275825827	0.488958854	1.378088589	-0.18650106
LCA5	1.050177308	0.590452337	-0.26283468	-0.56273538
ZFP82	0.160171379	0.845641551	0.255048654	-1.08132122
LXN	1.137385957	2.301072667	2.835179114	-0.83160955
KIAA0226L	0.509680934	0.815652516	0.570546637	-0.93518473
LBH	0.62782349	1.713934796	1.709378184	-0.75446398
CD59	0.553474297	0.35979415	-1.19359512	0.118905718
RP11-44N21.1	1.188434716	1.559115465	0	0
BCL11A	0.673237032	2.618414652	0.55417592	-0.66774834
ATP6V1E2	0.285752088	0.10412713	0.902862854	-1.46071385
SOD3	1.245188234	2.273535233	1.549942428	-0.07436255
ABCA7	0.361602295	0.762929265	0.745261284	-0.17576071
VANGL2	0.44526088	2.438495206	0.790497259	-0.51274782
MAP2	1.027137854	0.875621564	0.060137225	-0.46437772
TUBA1A	0.82962813	1.117559547	1.228113367	-0.56344433
FLRT2	0.378208825	1.387615327	0.701461864	-0.87640443
IFT57	0.737539187	0.421426942	2.446348619	-0.64839546
AC006129.2	0.349341963	1.522858236	0	0
RP11-1149O2	0.534831341	0.620070464	0	0
NFATC4	0.713605161	0.601873203	2.166863716	-0.66376135
ADRA2A	1.273408506	3.060089698	0.666015681	3.285906686
KIAA1549	0.312283064	0.970973351	0	0
RAP1GAP2	0.264576018	0.693516742	1.512621202	-0.53271777
PKM	0.794943799	1.176288073	2.012759109	-0.24340875
HLA-L	0.132959182	0.609978823	0	0
CD44	0.797992129	1.415315724	1.09010886	-0.60309806
ORAI2	0.700030541	0.894705466	2.002792026	-0.92901015
STK39	0.891199728	1.917316889	0.551296321	-0.7849475
PTP4A3	0.492512547	0.943170371	1.442673619	-0.31569774
RASSF3	0.68706604	1.833587714	-0.91983319	-0.11785679
IGF2BP2	0.690209548	1.195602354	0.562735818	-0.04531726
TRIM59	0.732166128	1.117847828	1.410463516	0.035855137
ARMCX1	0.946477404	0.452928241	0.179527263	-0.40202973
PDGFA	2.141648615	1.691178247	2.769844299	-0.51265761
MAML2	0.946407038	1.553113505	-0.05034248	-0.62227034
HOMER1	1.952588506	2.243048128	-1.86025411	0.412767897
SLC25A36	0.630623089	1.244212335	0.228616798	-0.66621817
MEX3B	2.359522955	1.85870158	0.321530985	0.047775623
KCNAB2	0.376904245	1.566963031	3.589592455	-1.09644572
RP11-4O1.2	0.124349157	1.194043104	0	0
ZNF14	0.747461535	1.320333857	0	0
CSGALNACT	1.462617263	0.404999009	-0.78611566	-0.53698503
ZNF43	0.506099341	1.325024931	0	0
FAM60A	1.18939247	1.414514517	-0.7874178	-0.92851616
ZDHH13	0.456023649	1.367726205	0.245412153	-0.03057891
ROR2	1.890312753	3.227389866	1.419303949	-2.1071005
LRRC8B	0.827214083	0.358061101	0.249549929	-0.3333449

Table S7

SNPH	0.643769231	1.130816412	1.837928521	-2.38686449
LAPTM5	0.783487348	1.033942237	2.795439131	-0.62692969
PIK3IP1	0.818138296	1.466382792	1.835772082	-1.10471875
SIK1	1.164224078	1.932168422	-0.09352333	-0.75070959
PDE4A	0.65321955	1.082828307	0.730181686	-0.34440217
SLC6A8	1.874125045	1.484960108	2.283776948	-0.07964509
LETM2	2.180473039	0.60856907	-0.16037646	-0.1869306
NLRP1	0.428060237	1.001367554	-0.18072493	-1.16977654
SLFN11	1.344033478	1.348886125	0	0
CDC7	1.309238988	1.297184817	-0.58165859	0.267522639
AFAP1	0.899373322	1.270404803	0.929105836	-0.79388569
ZC2HC1A	1.059594634	0.730882247	1.059075055	-0.37043793
FMNL1	0.82381319	1.34155821	2.407171051	-0.86121845
OSBPL3	1.081084526	2.142196545	2.099112189	-0.58831423
SLC7A7	0.350443123	0.76170042	2.307026073	-0.15072281
NFE2L3	1.42727801	0.716512991	2.345572288	-1.11058798
TNFRSF21	0.484797788	1.304389694	1.022544545	-0.34643669
CHST10	0.255408945	1.008534093	1.645117921	-0.31003813
SELM	0.771373059	0.873890203	4.832159695	-0.77336712
RP11-325F22	4.685632619	2.464804499	0	0
MST1R	0.149584877	1.749098858	1.097913081	-0.67920621
STX3	0.960816884	0.687808175	0.704986881	-0.02648342
MFSD6	0.739617876	1.26885255	-0.81965351	0.214607128
MIR24-2	3.074039108	0.902292582	0	0
TNFRSF10A	0.635242368	0.838437397	0	0
GABBR1	0.39242786	0.737479781	0.390504688	-0.95365014
S100A4	0.697527654	1.237440588	3.11304722	-1.12847127
TMED3	0.328076547	0.627875008	1.451355479	0.057198107
LMTK3	1.294944472	1.961250653	3.564144915	-1.40239854
CNN2	0.81624852	0.416948713	2.852666961	-0.42151105
NFATC1	1.653143846	1.475415624	0.172371204	-0.08512421
SGCA	1.537368402	1.277734093	-5.07567449	-1.76849178
HTR7	2.532501752	1.594807269	-0.00202291	-1.6485929
ZNF462	0.968928448	0.945038463	0.20304375	-0.74766584
EPB41L4A	1.003419758	1.872561094	1.809199423	-0.75782868
TC2N	0.965688086	2.417247976	-1.23340184	0.346574759
STK17B	1.716620286	2.168287525	-0.78507616	-0.31330313
FAM43A	0.966902199	0.659971965	0.841216424	-0.3299344
ZNF682	0.13680001	0.576439372	-0.99603891	-1.89250763
CDR2L	0.815217578	0.386285093	1.748250723	-0.34780915
ANXA1	1.991406906	1.186801575	2.743889115	-0.81502721
DBNDD2	0.417594478	1.249720131	0.045740589	-0.64738754
MCTP2	1.142159841	1.675440995	-2.1410761	0.633185008
CACNB1	0.890016323	1.46060689	1.009784032	-1.33825786
TRPC1	1.046012759	1.182704866	0.104822561	-0.50993548
NCR3LG1	2.204869336	1.314994001	0	0
GDPD1	0.151884969	0.456225784	1.556519134	0.22929244
ZNF551	0.121355535	0.455575864	-3.03887845	0.588087816
EFEMP1	2.105617219	3.017566449	0.139138032	0.392143356

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WDR54	0.459415788	0.441394098	1.399396141	-0.43772568
BTG2	2.467320355	1.792530843	0.564959251	-0.00187489
GPR160	1.396340345	1.034918175	1.20326508	-0.80060957
PCYOX1L	0.426053749	1.145152699	2.203375899	-0.01942711
ENO2	1.084759488	1.192619029	3.459184102	-1.15078125
PTPN13	0.914716466	1.289095093	1.084788232	-0.72349268
MAPK10	0.899392576	1.283477077	-0.6359834	0
SRGAP1	1.073757105	1.628761843	-0.00599513	-0.69614272
RP11-196G18	2.793214711	1.714611583	0	0
METTL24	0.682498534	2.106161594	2.996558569	-1.03096456
LOXL1-AS1	1.329214922	2.816722245	0	0
ZNF135	0.10178817	0.769142685	0	0
AC006273.5	0.224155669	1.73872736	0	0
SLC7A1	2.006805938	2.347404156	0.938325532	-0.25197371
KCNN4	1.086580225	2.182859932	5.503213513	-1.17001185
NRARP	0.589072623	0.737067314	0.137958843	0.188097623
LRRC7	2.053720096	0.689464524	2.046602789	-0.87571617
S100A6	0.557342395	1.487259118	2.541721741	-0.48296628
DUSP4	1.147000758	2.43096567	0.053108338	-0.31172098
TES	0.928432932	0.465380394	-0.60316517	-0.49892723
RASSF2	1.48731875	1.366054192	0.592183647	-0.7977718
PFKP	1.477877899	1.753700499	1.515224062	-0.29824816
IL32	2.067343918	0.806527255	0	0
C11orf63	0.880232354	1.706194533	0	1.196357196
PLEKHN1	1.456719139	2.021228654	0	0
SERTAD4	0.390210124	2.884039229	0.056768172	-1.20092151
SPHK1	2.842300451	2.126092502	4.764347255	-1.66602405
ZNF93	1.422373236	0.942165909	0	0
DOCK8	0.996795095	1.908861688	-2.04004024	-0.20705513
DNAJA4	1.320862277	0.49229688	-1.01151457	-0.02828648
GUCY1A3	0.89548646	0.718872809	-0.30144881	-0.64539781
FAT1	1.421354184	2.270910208	-1.30135527	-0.21610587
SEZ6L2	1.040257117	2.397809249	1.068886675	-0.06164286
ENPP2	1.198350295	1.929664976	-1.08667011	0.028522079
HAGHL	0.268031364	0.332350349	2.178146775	-0.0071293
ZNF430	0.6769326	1.795814664	0	0
KIF5C	1.279217817	1.89759322	1.370849562	-0.41713897
PMAIP1	1.730625266	1.014752865	0.189769596	-0.20676909
MIR155HG	2.543750464	2.75724954	0	0
SLC44A3	0.175542568	0.820793676	0.37648656	-0.24620558
OSM	3.773396924	2.324794786	4.752997379	-0.83388871
GLIS2	1.18976667	1.864334848	2.498274601	-0.98027598
HS3ST1	1.099570565	1.72470383	2.222510534	-1.01324386
MB21D2	2.539888278	1.784113391	-0.36031568	0.339805558
PAPLN	1.256882871	2.309630403	0.144397142	-0.45506238
ZNF83	0.249080982	0.788218764	0	0
ZNF525	0.511293742	0.454818334	0	0
JAK3	0.800551581	1.828940644	1.468633431	-0.29135619
CD24P4	1.339017022	2.494232183	0	0

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GLS	1.322918038	1.827102609	-0.20745048	-0.21736782
CDS1	0.386526937	0.022434366	0.859948798	-0.70780385
PDZK1IP1	0.342817575	2.434767498	4.065199051	-0.63860919
SGPP2	0.638284916	1.723217439	1.285000845	-0.93354656
EMILIN2	1.896243208	1.221483636	1.637167225	-0.36948102
ZNF738	1.0514475	1.504358159	0	0
ZNF827	1.165787039	2.721807567	0.516462587	-0.64577276
KIAA1324L	1.355491679	1.612951734	-3.30508645	1.323631588
CRIM1	0.781119371	1.057313486	-0.46024321	-0.65827975
ARHGAP22	0.687392614	2.325269685	5.135393936	-0.31769572
LGALS3	1.217279204	1.685501097	6.121743569	-0.61762148
SLFN12	0.48613251	2.291148766	2.754823739	-0.07340418
AC009495.4	0.082871298	0.025329234	0	0
GALNT3	0.17709092	0.36343032	1.031816653	-0.75190058
LAYN	0.762533734	2.535682896	0.911397149	-0.89248142
CDH11	1.09736537	2.432279192	-0.43312496	-0.76903696
NBEA	0.911651208	1.894782923	-0.70210577	-0.57488602
SUSD1	0.876797013	0.917097756	-0.74906316	0.075219108
IFI16	1.317214892	1.596425124	0.566185826	-0.34906572
MICAL1	0.546592737	1.620364249	3.403585531	-1.01993246
PRDM8	0.927517956	1.838035751	1.770520148	0.536291971
EPHA4	0.580749773	1.363959085	-1.51186426	0.029556525
IL20RA	0.080090855	1.313858572	2.04660982	-1.64268419
MCOLN3	0.253638892	1.875359013	4.973724831	-0.90501132
MOXD1	2.495510857	3.754463961	-3.29704019	-0.45701219
ZNF610	0.976860014	0.975577107	0.53091668	0.067728228
C2CD4A	3.502667779	1.726565786	0	0
PTPN14	0.824460375	1.271238708	0.536739331	-1.11916829
CLDN4	1.523718542	1.500800351	0.90286625	4.359887422
ZNF320	0.282642693	1.091593482	0	0
SULT1C4	0.516138806	1.377452499	0	0
C1orf198	1.105032361	1.367112892	0.547781443	-0.29578009
RP11-255H23	2.016237105	2.218086986	0	0
RP11-54O7.1	1.964259282	1.255042881	0	0
HES4	1.331672565	0.042840977	0	0
ZNF439	0.591543756	1.582088027	-0.40659866	-0.06794602
OXCT1	0.441251473	1.701047003	-0.81807244	-0.52546319
HLA-V	0.792981973	2.244138475	0	0
HCG4	0.821974973	0.858716788	0	0
NACAD	1.614622817	1.725302453	1.523262244	-0.86669622
KLHL29	2.157126502	2.674899447	0.547185218	-0.29519063
GRAMD1B	0.281701752	2.681109967	0.976546308	-0.87094502
BHLHE41	1.289631775	2.802485691	0.00356418	-0.98062839
CXCL1	3.815104415	1.936433928	0	0
ETV4	0.175240828	2.312607591	3.538299575	0.171047107
LOXL4	2.439114194	3.805563263	0.319789964	0.47019588
SPINT1	0.432057384	2.606530588	3.423875936	-0.97945187
TUBB3	4.479299326	1.576469853	6.064139936	-1.1135345
SLFN13	0.332886186	2.600251475	-0.23708936	0.515935356

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TESC	0.498560447	3.023432368	5.023022047	-0.47260813
SSPN	1.566765169	2.050224228	-1.40094468	-0.42427961
HKDC1	3.339767783	3.686341559	3.137298723	-1.22706771
GPRC5B	0.8911855	1.683010523	1.685622879	-0.86181882
B3GALT5	0.295242739	2.656251875	2.740563909	-3.11983636
LEF1	1.054739715	4.082795842	1.225767898	-0.73433381
CCND2	0.868628177	2.091185563	0.430073817	-0.73372848
BACE2	1.302665731	1.307899789	0.191029641	0.116217126
LAMA2	1.461830284	1.791332365	0.479332918	-1.0520417
ZNF781	0.706753047	0.481407497	-0.81430361	-0.0279194
WFDC2	1.836592792	1.764657722	3.194504926	-0.89799602
LPAR2	0.411120193	0.992865718	0.516917288	-0.24407701
ITGA2	2.411046418	1.423108505	1.628040817	-0.32498241
COL4A4	1.624875183	1.844048979	0.643094359	-2.09033184
COL4A3	1.912222727	3.123070611	0.57221495	-2.08176458
TAF4B	1.05680751	1.848099368	-1.18984145	-0.1937676
ITGAM	1.24500796	0.768514761	1.671292666	-0.6995265
ASNS	0.738250377	0.098125823	3.349074124	0.923001168
SOX4	1.131953268	2.06689328	2.733553451	-1.01548813
ZNF607	0.885344264	1.075176048	0	0
HSPA4L	0.533179916	0.939154724	-0.78596701	-0.15433646
PRSS22	0.901031671	2.05927043	1.511094075	-2.06894836
KRT80	2.613619057	3.376386377	0.164540239	-2.50221321
ANXA3	0.149794113	0.756144232	2.155495089	-0.36803721
DCDC2	0.853567312	3.513040568	1.451574255	-0.9088206
ZNF665	0.769140968	0.739227361	-1.63356111	0.106533377
C1orf106	0.36439747	2.972209382	4.272983527	-0.62248407
ZNF888	0.284245963	1.135999318	0	0
BDKRB2	2.813337187	3.71364186	2.87695428	0.184576078
ZNF66	0.920755911	2.144191584	0	0
AC098614.2	0.420751285	1.427429664	0	0
ANKRD18A	0.947332166	1.405379438	0	0
FAM201A	0.436834133	1.49173932	0	0
KLF5	1.765644944	1.402395375	1.420358943	-1.5146251
ITGB8	1.226969069	2.512781376	0.728959574	-1.24749978
ST8SIA1	1.701569965	3.294852133	-0.32774387	-0.81346214
ADAMTS9-AS	1.032569765	1.75582693	0	0
ADAMTS9	1.314709962	0.807107381	1.233017429	-0.83254183
ZNF793	0.476967183	1.145897814	-0.6359834	0
C3orf52	2.248289851	2.529370233	2.838892719	-0.87557696
CXCR4	2.377011518	2.282279414	2.514741458	-1.10162754
TGFB2	0.993273103	2.783802208	1.164913687	-1.19596147
YBX3	1.664719093	0.598547688	0.757473086	0.087070567
CXCL6	2.445742711	2.402487277	4.090295744	1.491056461
F2RL1	1.125366274	0.897453834	1.555055793	-0.47640976
GULP1	0.505587394	1.347249639	0.388876027	-0.28322593
ZNF382	0.721867704	1.463726471	0.128080754	-0.82234936
EVC	0.543922609	1.609605956	1.886708143	-0.5250528
TNFRSF11B	1.56741943	1.055616497	-2.0558988	0.030446701

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PDX1	1.680217379	3.572273076	-0.57124354	-0.32104971
MDFI	0.993432604	2.540690411	4.841847246	-0.87667215
NPNT	1.205672605	2.399552989	-0.93908597	0.606081048
PMEPA1	0.890385694	1.858231563	2.361950686	-1.04965398
FAM150B	0.631125029	1.554397088	-2.79052859	0
WNT10A	1.099490929	3.902181618	8.275334836	-0.7485932
TTC9	1.737628064	2.046118111	-0.41452593	-0.44701808
TMEM55A	1.363943103	1.351701331	-0.030003	0.209137359
EVC2	0.934428052	1.9290622	2.324894458	-0.57591441
HSPB8	2.023374575	1.480521532	-0.05878765	0.171638857
ZNF431	0.759115607	1.445572587	0	0
B3GNT3	0.521424586	2.940508221	0.223032697	-0.14633702
GABRE	0.832272308	1.846596224	1.053463288	-0.25436445
CTD-2008P7.	1.253377316	1.869191119	0	0
TBC1D30	0.417075177	1.310475041	-0.02136689	-0.08514743
GABRB3	2.425706177	2.792527849	0.29379416	-0.72958559
RASEF	0.794656176	1.468487475	0.800924805	-1.33339756
VCAN	1.773821292	2.261859092	0.908920018	-0.4324441
LRRC1	1.303055951	2.807875704	1.327901136	-0.41266841
KRT7	0.907523537	2.565046872	3.946025056	-0.44031685
ZNF714	0.88171028	2.08510623	0	0
CLIC6	1.294168864	2.767886155	1.890891808	-1.78371784
DUSP8	4.586985136	3.376832942	0.698955041	0.2236662
CDH6	0.846314445	2.787696495	0.236267399	0.37240735
EPCAM	0.893360611	3.716129672	3.261441396	-0.96486618
SNAP25	0.394620426	1.920915756	-1.18709319	0
ID4	2.443038227	3.233584123	0.396854889	-1.15573785
SOX9	0.679339449	2.454247654	2.233661955	-0.26225239
DTNA	1.400641779	3.285872558	-1.28183071	-1.58686594