

**Supplementary Data3:genes with different frequency of CNVs between LRBM and HRBM cohort**

Gene	CNV ratio of LRBM cohort	CNV ratio of HRBM cohort	Stat	Pvalue	adjPvalue
CSMD3	0.118644	0.409091	39.57687	3.15E-10	6.00E-06
TRMT12	0.088983	0.393939	47.60756	5.21E-12	9.91E-08
TAT	0.097458	0.295455	22.29626	2.34E-06	0.044456
TTPA	0.080508	0.30303	29.5054	5.58E-08	0.001061
ADAMTS18	0.127119	0.356061	25.45059	4.54E-07	0.008635
NAE1	0.059322	0.234848	22.69198	1.90E-06	0.03618
OPRK1	0.067797	0.310606	36.29438	1.70E-09	3.23E-05
MAF1	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
MT1F	0.050847	0.242424	27.72176	1.40E-07	0.002665
MAPK15	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
STAU2	0.084746	0.348485	38.23476	6.27E-10	1.19E-05
OSR2	0.09322	0.393939	45.79801	1.31E-11	2.49E-07
FA2H	0.110169	0.363636	32.29363	1.33E-08	0.000252
COQ9	0.050847	0.242424	27.72176	1.40E-07	0.002665
UBR5	0.09322	0.386364	43.92067	3.42E-11	6.51E-07
MROH6	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
CYP7A1	0.080508	0.30303	29.5054	5.58E-08	0.001061
CTC-479C5.6	0.055085	0.242424	25.96278	3.48E-07	0.006622
GPIHBP1	0.088983	0.348485	36.55736	1.48E-09	2.82E-05
SLC7A6	0.059322	0.242424	24.30112	8.24E-07	0.015676
LONP2	0.029661	0.181818	23.47133	1.27E-06	0.024123
LRRCC1	0.101695	0.356061	33.56055	6.91E-09	0.000131
GOT2	0.055085	0.257576	29.36496	6.00E-08	0.001141
FAM96B	0.059322	0.234848	22.69198	1.90E-06	0.03618
DNAJC5B	0.084746	0.333333	34.70179	3.84E-09	7.31E-05
JPH1	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
NUDT7	0.127119	0.356061	25.45059	4.54E-07	0.008635
OSGIN2	0.097458	0.371212	38.59102	5.23E-10	9.94E-06
NLRC5	0.050847	0.242424	27.72176	1.40E-07	0.002665
RAD21	0.101695	0.386364	40.53896	1.93E-10	3.67E-06
B3GNT9	0.055085	0.234848	24.30645	8.22E-07	0.015632
ATP6V1C1	0.09322	0.393939	45.79801	1.31E-11	2.49E-07
ZNF572	0.088983	0.393939	47.60756	5.21E-12	9.91E-08
BCAR1	0.114407	0.356061	29.2852	6.25E-08	0.001189
MTDH	0.09322	0.393939	45.79801	1.31E-11	2.49E-07
FAM110B	0.072034	0.30303	32.76502	1.04E-08	0.000198
ZFP41	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
UBE2V2	0.072034	0.287879	29.35015	6.04E-08	0.001149
RRM2B	0.09322	0.386364	43.92067	3.42E-11	6.51E-07
ZBTB10	0.09322	0.356061	36.68223	1.39E-09	2.65E-05
LY6E	0.088983	0.363636	40.13285	2.37E-10	4.51E-06

LYPD2	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
SHARPIN	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
HGH1	0.088983	0.348485	36.55736	1.48E-09	2.82E-05
LYNX1	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
FNTA	0.122881	0.333333	22.27248	2.37E-06	0.04501
RFWD3	0.105932	0.363636	33.75143	6.26E-09	0.000119
WDR97	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
TP53	0.110169	0.318182	22.95415	1.66E-06	0.031566
ZHX1	0.088983	0.378788	43.81719	3.61E-11	6.86E-07
TMEM71	0.097458	0.393939	44.04758	3.20E-11	6.10E-07
ZNRF1	0.122881	0.356061	26.68283	2.40E-07	0.004561
PSMB10	0.055085	0.242424	25.96278	3.48E-07	0.006622
CEBPD	0.072034	0.280303	27.68668	1.43E-07	0.002714
SULF1	0.088983	0.348485	36.55736	1.48E-09	2.82E-05
TRPS1	0.097458	0.393939	44.04758	3.20E-11	6.10E-07
C8orf44-SGK3	0.084746	0.340909	36.45437	1.56E-09	2.97E-05
LDHD	0.118644	0.356061	27.96047	1.24E-07	0.002356
TERF2IP	0.122881	0.356061	26.68283	2.40E-07	0.004561
DDX28	0.055085	0.242424	25.96278	3.48E-07	0.006622
CLEC3A	0.131356	0.356061	24.2621	8.41E-07	0.015997
RP11-26J3.4	0.09322	0.356061	36.68223	1.39E-09	2.65E-05
DRC3	0.004237	0.121212	23.70053	1.13E-06	0.021414
TERF1	0.080508	0.356061	41.81861	1.00E-10	1.91E-06
GNAO1	0.050847	0.234848	26.01854	3.38E-07	0.006434
PMP2	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
PKHD1L1	0.101695	0.401515	44.19669	2.97E-11	5.65E-07
AC010287.1	0.055085	0.257576	29.36496	6.00E-08	0.001141
TCEA1	0.067797	0.318182	38.10887	6.69E-10	1.27E-05
ANXA13	0.088983	0.378788	43.81719	3.61E-11	6.86E-07
RSPO2	0.097458	0.393939	44.04758	3.20E-11	6.10E-07
SLC9A5	0.055085	0.234848	24.30645	8.22E-07	0.015632
TRHR	0.105932	0.393939	40.71536	1.76E-10	3.35E-06
PMFBP1	0.110169	0.325758	24.43059	7.70E-07	0.014657
RP11-240B13.2	0.084746	0.393939	49.4786	2.01E-12	3.82E-08
NPIP15	0.105932	0.348485	30.44512	3.43E-08	0.000653
KBTBD11	0.20339	0.454545	24.55565	7.22E-07	0.013736
RRAD	0.059322	0.234848	22.69198	1.90E-06	0.03618
VCPIP1	0.080508	0.340909	38.16239	6.51E-10	1.24E-05
OC90	0.084746	0.393939	49.4786	2.01E-12	3.82E-08
GIN3	0.050847	0.25	29.4537	5.73E-08	0.00109
FABP4	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
RABEP1	0.050847	0.234848	26.01854	3.38E-07	0.006434
KCNS2	0.088983	0.401515	49.54176	1.94E-12	3.69E-08
C8orf76	0.088983	0.378788	43.81719	3.61E-11	6.86E-07

FABP5	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
XKR9	0.084746	0.348485	38.23476	6.27E-10	1.19E-05
KIAA0196	0.088983	0.393939	47.60756	5.21E-12	9.91E-08
TSNARE1	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
PSKH1	0.055085	0.242424	25.96278	3.48E-07	0.006622
MAFA	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
HES7	0.067797	0.257576	24.37647	7.92E-07	0.015074
MLKL	0.110169	0.363636	32.29363	1.33E-08	0.000252
DPEP2	0.055085	0.242424	25.96278	3.48E-07	0.006622
FAM84B	0.088983	0.393939	47.60756	5.21E-12	9.91E-08
LRRC69	0.09322	0.363636	38.4505	5.62E-10	1.07E-05
ARL2BP	0.050847	0.242424	27.72176	1.40E-07	0.002665
PKD1L3	0.105932	0.310606	22.72338	1.87E-06	0.035593
NFATC3	0.055085	0.242424	25.96278	3.48E-07	0.006622
SMPD3	0.059322	0.242424	24.30112	8.24E-07	0.015676
CMTM3	0.059322	0.25	25.94183	3.52E-07	0.006695
GFOD2	0.055085	0.242424	25.96278	3.48E-07	0.006622
AC100821.2	0.067797	0.310606	36.29438	1.70E-09	3.23E-05
AGO2	0.088983	0.386364	45.69928	1.38E-11	2.62E-07
CHD7	0.09322	0.295455	23.59547	1.19E-06	0.022616
IMPAD1	0.072034	0.295455	31.04317	2.52E-08	0.00048
ESRP1	0.088983	0.371212	41.96161	9.31E-11	1.77E-06
SNAI2	0.072034	0.295455	31.04317	2.52E-08	0.00048
FBXO43	0.09322	0.393939	45.79801	1.31E-11	2.49E-07
KCNQ3	0.097458	0.393939	44.04758	3.20E-11	6.10E-07
E2F5	0.09322	0.356061	36.68223	1.39E-09	2.65E-05
SLC7A13	0.084746	0.363636	41.87726	9.72E-11	1.85E-06
GSDMC	0.084746	0.393939	49.4786	2.01E-12	3.82E-08
WWP1	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
CMTM1	0.059322	0.25	25.94183	3.52E-07	0.006695
PCMTD1	0.067797	0.30303	34.5066	4.25E-09	8.08E-05
PER1	0.067797	0.25	22.79482	1.80E-06	0.034295
PARD6A	0.055085	0.234848	24.30645	8.22E-07	0.015632
NUTF2	0.055085	0.242424	25.96278	3.48E-07	0.006622
CDH17	0.09322	0.371212	40.24658	2.24E-10	4.26E-06
RAB2A	0.09322	0.295455	23.59547	1.19E-06	0.022616
ADCY8	0.084746	0.393939	49.4786	2.01E-12	3.82E-08
C16orf86	0.055085	0.234848	24.30645	8.22E-07	0.015632
CCDC79	0.059322	0.25	25.94183	3.52E-07	0.006695
ADAT1	0.118644	0.348485	26.42383	2.74E-07	0.005216
PTDSS1	0.09322	0.386364	43.92067	3.42E-11	6.51E-07
PSMD7	0.105932	0.348485	30.44512	3.43E-08	0.000653
ELP5	0.101695	0.30303	22.50389	2.10E-06	0.039901
MT1B	0.050847	0.242424	27.72176	1.40E-07	0.002665

CCDC166	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
CLVS1	0.097458	0.30303	23.78495	1.08E-06	0.020495
ABRA	0.09322	0.401515	47.7018	4.96E-12	9.44E-08
ACSF3	0.122881	0.348485	25.17984	5.22E-07	0.009936
BHLHE22	0.076271	0.318182	34.55182	4.15E-09	7.90E-05
ERICH5	0.088983	0.393939	47.60756	5.21E-12	9.91E-08
TNFRSF11B	0.09322	0.386364	43.92067	3.42E-11	6.51E-07
COLEC10	0.097458	0.386364	42.20132	8.23E-11	1.57E-06
CYP7B1	0.080508	0.325758	34.6147	4.02E-09	7.65E-05
MTBP	0.09322	0.378788	42.07009	8.81E-11	1.68E-06
ITFG1	0.029661	0.181818	23.47133	1.27E-06	0.024123
LYPLA1	0.067797	0.310606	36.29438	1.70E-09	3.23E-05
GID4	0.004237	0.121212	23.70053	1.13E-06	0.021414
NDRG1	0.09322	0.393939	45.79801	1.31E-11	2.49E-07
RB1CC1	0.063559	0.318182	40.00423	2.53E-10	4.82E-06
TMEM74	0.101695	0.393939	42.35407	7.62E-11	1.45E-06
LCAT	0.055085	0.242424	25.96278	3.48E-07	0.006622
INTS8	0.088983	0.378788	43.81719	3.61E-11	6.86E-07
TMEM170A	0.118644	0.356061	27.96047	1.24E-07	0.002356
RP11-403P17.5	0.059322	0.25	25.94183	3.52E-07	0.006695
USP6	0.04661	0.227273	26.11359	3.22E-07	0.006125
RP11-77K12.7	0.118644	0.356061	27.96047	1.24E-07	0.002356
STMN2	0.09322	0.348485	34.94219	3.40E-09	6.46E-05
TAF2	0.097458	0.378788	40.38235	2.09E-10	3.97E-06
LRRC36	0.055085	0.234848	24.30645	8.22E-07	0.015632
KARS	0.122881	0.348485	25.17984	5.22E-07	0.009936
PRDM14	0.084746	0.356061	40.04253	2.48E-10	4.73E-06
HP	0.101695	0.318182	25.50461	4.41E-07	0.008397
C8orf88	0.09322	0.363636	38.4505	5.62E-10	1.07E-05
CES3	0.059322	0.234848	22.69198	1.90E-06	0.03618
TRAPPC2L	0.122881	0.348485	25.17984	5.22E-07	0.009936
ZNF696	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
SDCBP	0.080508	0.30303	29.5054	5.58E-08	0.001061
KATNB1	0.050847	0.242424	27.72176	1.40E-07	0.002665
CTRB2	0.114407	0.356061	29.2852	6.25E-08	0.001189
ENY2	0.101695	0.393939	42.35407	7.62E-11	1.45E-06
TPPP3	0.055085	0.234848	24.30645	8.22E-07	0.015632
C16orf70	0.055085	0.234848	24.30645	8.22E-07	0.015632
SCIMP	0.04661	0.227273	26.11359	3.22E-07	0.006125
CKLF	0.059322	0.25	25.94183	3.52E-07	0.006695
EDC4	0.055085	0.242424	25.96278	3.48E-07	0.006622
MOS	0.067797	0.295455	32.74609	1.05E-08	0.0002
FZD6	0.09322	0.393939	45.79801	1.31E-11	2.49E-07
SNTB1	0.09322	0.378788	42.07009	8.81E-11	1.68E-06

BBS2	0.050847	0.25	29.4537	5.73E-08	0.00109
BEAN1	0.059322	0.25	25.94183	3.52E-07	0.006695
FAM92A1	0.09322	0.371212	40.24658	2.24E-10	4.26E-06
MT1M	0.050847	0.242424	27.72176	1.40E-07	0.002665
ZNF319	0.050847	0.242424	27.72176	1.40E-07	0.002665
TK2	0.059322	0.25	25.94183	3.52E-07	0.006695
PPP1R42	0.084746	0.340909	36.45437	1.56E-09	2.97E-05
TG	0.101695	0.393939	42.35407	7.62E-11	1.45E-06
DOK4	0.055085	0.242424	25.96278	3.48E-07	0.006622
HERPUD1	0.050847	0.242424	27.72176	1.40E-07	0.002665
ZNF469	0.148305	0.371212	22.6286	1.97E-06	0.037393
CMTM4	0.059322	0.25	25.94183	3.52E-07	0.006695
CHMP4C	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
CHST5	0.118644	0.356061	27.96047	1.24E-07	0.002356
PSCA	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
CHST4	0.097458	0.295455	22.29626	2.34E-06	0.044456
RPL7	0.084746	0.348485	38.23476	6.27E-10	1.19E-05
CHST6	0.118644	0.356061	27.96047	1.24E-07	0.002356
RGS20	0.067797	0.310606	36.29438	1.70E-09	3.23E-05
KLHL38	0.088983	0.378788	43.81719	3.61E-11	6.86E-07
VAT1L	0.131356	0.348485	22.82601	1.77E-06	0.033743
POU5F1B	0.088983	0.401515	49.54176	1.94E-12	3.69E-08
ATP6V0D1	0.055085	0.234848	24.30645	8.22E-07	0.015632
TMEM68	0.076271	0.30303	31.09919	2.45E-08	0.000466
RP11-1099M24.7	0.101695	0.310606	23.98776	9.70E-07	0.018446
PAG1	0.09322	0.363636	38.4505	5.62E-10	1.07E-05
FAM135B	0.101695	0.386364	40.53896	1.93E-10	3.67E-06
GGH	0.080508	0.30303	29.5054	5.58E-08	0.001061
RP1	0.072034	0.30303	32.76502	1.04E-08	0.000198
ENPP2	0.097458	0.386364	42.20132	8.23E-11	1.57E-06
TSTA3	0.088983	0.348485	36.55736	1.48E-09	2.82E-05
MT1X	0.050847	0.234848	26.01854	3.38E-07	0.006434
AC004158.1	0.110169	0.348485	29.05459	7.04E-08	0.001339
SDC2	0.088983	0.386364	45.69928	1.38E-11	2.62E-07
RNF166	0.122881	0.348485	25.17984	5.22E-07	0.009936
NOV	0.097458	0.386364	42.20132	8.23E-11	1.57E-06
UBE2W	0.084746	0.348485	38.23476	6.27E-10	1.19E-05
ARFGEF1	0.084746	0.340909	36.45437	1.56E-09	2.97E-05
DCAF13	0.09322	0.393939	45.79801	1.31E-11	2.49E-07
CCNE2	0.088983	0.378788	43.81719	3.61E-11	6.86E-07
RPL26	0.055085	0.227273	22.68139	1.91E-06	0.03638
RP11-849F2.7	0.055085	0.227273	22.68139	1.91E-06	0.03638
GALNS	0.122881	0.348485	25.17984	5.22E-07	0.009936
SPATC1	0.088983	0.356061	38.3313	5.97E-10	1.14E-05

OTUD6B	0.09322	0.363636	38.4505	5.62E-10	1.07E-05
E2F4	0.055085	0.242424	25.96278	3.48E-07	0.006622
EIF3E	0.105932	0.393939	40.71536	1.76E-10	3.35E-06
ZNF623	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
DHX38	0.105932	0.325758	25.7159	3.96E-07	0.007526
PENK	0.072034	0.295455	31.04317	2.52E-08	0.00048
PUF60	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
MRPL15	0.067797	0.310606	36.29438	1.70E-09	3.23E-05
DCSTAMP	0.09322	0.409091	49.63179	1.85E-12	3.53E-08
FAM83A	0.088983	0.378788	43.81719	3.61E-11	6.86E-07
PDP1	0.09322	0.371212	40.24658	2.24E-10	4.26E-06
EYA1	0.084746	0.348485	38.23476	6.27E-10	1.19E-05
EXOSC4	0.084746	0.356061	40.04253	2.48E-10	4.73E-06
TEPP	0.050847	0.242424	27.72176	1.40E-07	0.002665
RP11-598P20.5	0.122881	0.348485	25.17984	5.22E-07	0.009936
MAF	0.135593	0.356061	23.11585	1.53E-06	0.02902
AC087350.1	0.101695	0.386364	40.53896	1.93E-10	3.67E-06
SLA	0.097458	0.393939	44.04758	3.20E-11	6.10E-07
RP11-343C2.11	0.067797	0.257576	24.37647	7.92E-07	0.015074
EPPK1	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
FABP12	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
MED30	0.09322	0.393939	45.79801	1.31E-11	2.49E-07
FAM192A	0.050847	0.242424	27.72176	1.40E-07	0.002665
ZFP90	0.063559	0.242424	22.73077	1.86E-06	0.035457
NDUF6F6	0.088983	0.378788	43.81719	3.61E-11	6.86E-07
KHDRBS3	0.097458	0.393939	44.04758	3.20E-11	6.10E-07
MAL2	0.097458	0.386364	42.20132	8.23E-11	1.57E-06
AC010547.9	0.097458	0.295455	22.29626	2.34E-06	0.044456
NECAB1	0.09322	0.363636	38.4505	5.62E-10	1.07E-05
COPS5	0.084746	0.340909	36.45437	1.56E-09	2.97E-05
ADGRG1	0.050847	0.242424	27.72176	1.40E-07	0.002665
PREX2	0.097458	0.348485	33.3867	7.55E-09	0.000144
AFAP1L2	0.008475	0.128788	22.62863	1.97E-06	0.037393
MT1E	0.050847	0.242424	27.72176	1.40E-07	0.002665
NAA38	0.105932	0.310606	22.72338	1.87E-06	0.035593
AZIN1	0.09322	0.393939	45.79801	1.31E-11	2.49E-07
EIF3H	0.097458	0.386364	42.20132	8.23E-11	1.57E-06
CSNK2A2	0.050847	0.242424	27.72176	1.40E-07	0.002665
PDE7A	0.080508	0.333333	36.37475	1.63E-09	3.10E-05
DERL2	0.050847	0.219697	22.70249	1.89E-06	0.035982
RANBP10	0.055085	0.242424	25.96278	3.48E-07	0.006622
ZHX1-C8orf76	0.088983	0.378788	43.81719	3.61E-11	6.86E-07
RP11-599B13.6	0.067797	0.25	22.79482	1.80E-06	0.034295
RNF139	0.088983	0.386364	45.69928	1.38E-11	2.62E-07

WDYHV1	0.088983	0.378788	43.81719	3.61E-11	6.86E-07
IMPA1	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
NDRG4	0.050847	0.257576	31.21344	2.31E-08	0.00044
CPNE3	0.09322	0.363636	38.4505	5.62E-10	1.07E-05
KCNB2	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
FAM83H	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
CCL22	0.055085	0.242424	25.96278	3.48E-07	0.006622
JRK	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
GDAP1	0.088983	0.371212	41.96161	9.31E-11	1.77E-06
CRH	0.080508	0.340909	38.16239	6.51E-10	1.24E-05
NAPRT	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
RAP1GAP2	0.042373	0.212121	24.54063	7.28E-07	0.013843
TMEM107	0.067797	0.25	22.79482	1.80E-06	0.034295
TSNAXIP1	0.055085	0.242424	25.96278	3.48E-07	0.006622
MROH1	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
TMEM65	0.088983	0.393939	47.60756	5.21E-12	9.91E-08
AC129492.1	0.067797	0.25	22.79482	1.80E-06	0.034295
NKAIN3	0.084746	0.30303	27.98021	1.23E-07	0.002332
NUDCD1	0.101695	0.393939	42.35407	7.62E-11	1.45E-06
KLF10	0.09322	0.393939	45.79801	1.31E-11	2.49E-07
UQCRB	0.09322	0.386364	43.92067	3.42E-11	6.51E-07
NSMCE2	0.088983	0.401515	49.54176	1.94E-12	3.69E-08
CX3CL1	0.055085	0.242424	25.96278	3.48E-07	0.006622
ZFP1	0.114407	0.356061	29.2852	6.25E-08	0.001189
KRBA2	0.055085	0.227273	22.68139	1.91E-06	0.03638
SNX31	0.097458	0.393939	44.04758	3.20E-11	6.10E-07
KIFC3	0.050847	0.242424	27.72176	1.40E-07	0.002665
RP11-343C2.9	0.067797	0.257576	24.37647	7.92E-07	0.015074
MYBL1	0.080508	0.340909	38.16239	6.51E-10	1.24E-05
SGK3	0.084746	0.340909	36.45437	1.56E-09	2.97E-05
LY96	0.084746	0.348485	38.23476	6.27E-10	1.19E-05
MATN2	0.088983	0.393939	47.60756	5.21E-12	9.91E-08
RPS20	0.072034	0.295455	31.04317	2.52E-08	0.00048
TMEM88	0.105932	0.310606	22.72338	1.87E-06	0.035593
PABPN1L	0.122881	0.348485	25.17984	5.22E-07	0.009936
EFR3A	0.084746	0.401515	51.44303	7.37E-13	1.40E-08
FTO	0.055085	0.234848	24.30645	8.22E-07	0.015632
NRBP2	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
LYN	0.067797	0.295455	32.74609	1.05E-08	0.0002
RPL30	0.088983	0.393939	47.60756	5.21E-12	9.91E-08
NCALD	0.088983	0.393939	47.60756	5.21E-12	9.91E-08
MTFR1	0.080508	0.325758	34.6147	4.02E-09	7.65E-05
NDUFB9	0.088983	0.393939	47.60756	5.21E-12	9.91E-08
CTU2	0.122881	0.348485	25.17984	5.22E-07	0.009936

C8orf46	0.084746	0.340909	36.45437	1.56E-09	2.97E-05
DHODH	0.101695	0.310606	23.98776	9.70E-07	0.018446
CFAP20	0.050847	0.242424	27.72176	1.40E-07	0.002665
CLDN7	0.101695	0.30303	22.50389	2.10E-06	0.039901
ADGRG3	0.050847	0.242424	27.72176	1.40E-07	0.002665
KCNV1	0.088983	0.409091	51.50162	7.15E-13	1.36E-08
SAMD12	0.110169	0.393939	39.12945	3.97E-10	7.55E-06
MRPS28	0.09322	0.356061	36.68223	1.39E-09	2.65E-05
AARD	0.101695	0.386364	40.53896	1.93E-10	3.67E-06
TOX3	0.059322	0.234848	22.69198	1.90E-06	0.03618
FSBP	0.09322	0.371212	40.24658	2.24E-10	4.26E-06
WDR59	0.122881	0.371212	29.7847	4.83E-08	0.000919
CES2	0.059322	0.234848	22.69198	1.90E-06	0.03618
DSCC1	0.097458	0.378788	40.38235	2.09E-10	3.97E-06
CA13	0.09322	0.356061	36.68223	1.39E-09	2.65E-05
WISP1	0.097458	0.393939	44.04758	3.20E-11	6.10E-07
RPAIN	0.050847	0.219697	22.70249	1.89E-06	0.035982
RP11-457D20.2	0.050847	0.265152	33.00016	9.22E-09	0.000175
DENND3	0.088983	0.378788	43.81719	3.61E-11	6.86E-07
NSMAF	0.080508	0.30303	29.5054	5.58E-08	0.001061
SCRIB	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
GUCY2D	0.097458	0.295455	22.29626	2.34E-06	0.044456
XKR4	0.076271	0.30303	31.09919	2.45E-08	0.000466
RP11-463D19.2	0.084746	0.348485	38.23476	6.27E-10	1.19E-05
HNF4G	0.097458	0.356061	35.09278	3.14E-09	5.98E-05
CNOT1	0.055085	0.257576	29.36496	6.00E-08	0.001141
DYNLRB2	0.131356	0.348485	22.82601	1.77E-06	0.033743
IL17C	0.122881	0.348485	25.17984	5.22E-07	0.009936
CMTR2	0.097458	0.295455	22.29626	2.34E-06	0.044456
PKIA	0.09322	0.348485	34.94219	3.40E-09	6.46E-05
LAPTM4B	0.088983	0.393939	47.60756	5.21E-12	9.91E-08
C8orf22	0.067797	0.280303	29.30944	6.17E-08	0.001174
ASAP1	0.088983	0.401515	49.54176	1.94E-12	3.69E-08
CSPP1	0.084746	0.340909	36.45437	1.56E-09	2.97E-05
ARHGEF10	0.216102	0.469697	24.40775	7.80E-07	0.014832
NUP88	0.050847	0.227273	24.34508	8.05E-07	0.015322
SLC45A4	0.088983	0.378788	43.81719	3.61E-11	6.86E-07
VPS4A	0.067797	0.257576	24.37647	7.92E-07	0.015074
FAM49B	0.084746	0.393939	49.4786	2.01E-12	3.82E-08
BAALC	0.09322	0.393939	45.79801	1.31E-11	2.49E-07
CES4A	0.059322	0.234848	22.69198	1.90E-06	0.03618
CKLF-CMTM1	0.059322	0.25	25.94183	3.52E-07	0.006695
TCEB1	0.084746	0.348485	38.23476	6.27E-10	1.19E-05
TRADD	0.055085	0.234848	24.30645	8.22E-07	0.015632



CHCHD7	0.067797	0.295455	32.74609	1.05E-08	0.0002
CRISPLD1	0.084746	0.356061	40.04253	2.48E-10	4.73E-06
LRRC6	0.09322	0.393939	45.79801	1.31E-11	2.49E-07
ZFHX4	0.097458	0.363636	36.8277	1.29E-09	2.46E-05
CFDP1	0.127119	0.356061	25.45059	4.54E-07	0.008635
ACD	0.055085	0.234848	24.30645	8.22E-07	0.015632
NIP7	0.067797	0.257576	24.37647	7.92E-07	0.015074
RUNX1T1	0.09322	0.371212	40.24658	2.24E-10	4.26E-06
ATPAF2	0.004237	0.121212	23.70053	1.13E-06	0.021414
CHRA1	0.088983	0.378788	43.81719	3.61E-11	6.86E-07
MTSS1	0.088983	0.401515	49.54176	1.94E-12	3.69E-08
ARMC1	0.080508	0.325758	34.6147	4.02E-09	7.65E-05
DCAF4L2	0.084746	0.356061	40.04253	2.48E-10	4.73E-06
TATDN1	0.088983	0.393939	47.60756	5.21E-12	9.91E-08
MRPL13	0.09322	0.378788	42.07009	8.81E-11	1.68E-06
TMEM208	0.055085	0.242424	25.96278	3.48E-07	0.006622
RP11-58C22.1	0.127119	0.363636	26.95268	2.08E-07	0.003967
CLN8	0.20339	0.454545	24.55565	7.22E-07	0.013736
ZFP3	0.042373	0.219697	26.2533	2.99E-07	0.005697
FAM65A	0.055085	0.234848	24.30645	8.22E-07	0.015632
TRIB1	0.088983	0.393939	47.60756	5.21E-12	9.91E-08
CCDC113	0.050847	0.242424	27.72176	1.40E-07	0.002665
ALOX15B	0.09322	0.295455	23.59547	1.19E-06	0.022616
COX6C	0.088983	0.393939	47.60756	5.21E-12	9.91E-08
SLC12A4	0.055085	0.242424	25.96278	3.48E-07	0.006622
SLCO5A1	0.09322	0.348485	34.94219	3.40E-09	6.46E-05
ZNF707	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
TMED6	0.067797	0.257576	24.37647	7.92E-07	0.015074
ZDHC1	0.055085	0.234848	24.30645	8.22E-07	0.015632
LRP12	0.09322	0.409091	49.63179	1.85E-12	3.53E-08
NIPAL2	0.088983	0.393939	47.60756	5.21E-12	9.91E-08
TRAPPC9	0.110169	0.378788	35.65305	2.36E-09	4.49E-05
MT2A	0.050847	0.242424	27.72176	1.40E-07	0.002665
EMC2	0.101695	0.393939	42.35407	7.62E-11	1.45E-06
AC007906.1	0.055085	0.227273	22.68139	1.91E-06	0.03638
SLC22A31	0.122881	0.348485	25.17984	5.22E-07	0.009936
CYBA	0.122881	0.348485	25.17984	5.22E-07	0.009936
HSF4	0.055085	0.234848	24.30645	8.22E-07	0.015632
UBXN2B	0.080508	0.30303	29.5054	5.58E-08	0.001061
CTHRC1	0.09322	0.401515	47.7018	4.96E-12	9.44E-08
CA8	0.084746	0.287879	24.80131	6.36E-07	0.012092
YWHAZ	0.09322	0.401515	47.7018	4.96E-12	9.44E-08
CCDC102A	0.050847	0.242424	27.72176	1.40E-07	0.002665
HRSP12	0.088983	0.393939	47.60756	5.21E-12	9.91E-08

SETD6	0.050847	0.257576	31.21344	2.31E-08	0.00044
PTK2	0.088983	0.378788	43.81719	3.61E-11	6.86E-07
LPCAT2	0.055085	0.234848	24.30645	8.22E-07	0.015632
TMEM64	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
RDH10	0.084746	0.348485	38.23476	6.27E-10	1.19E-05
LRRC29	0.055085	0.242424	25.96278	3.48E-07	0.006622
MT1H	0.050847	0.242424	27.72176	1.40E-07	0.002665
SLC6A2	0.050847	0.227273	24.34508	8.05E-07	0.015322
PYCRL	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
CALB1	0.097458	0.363636	36.8277	1.29E-09	2.46E-05
PEX2	0.097458	0.356061	35.09278	3.14E-09	5.98E-05
CETP	0.050847	0.242424	27.72176	1.40E-07	0.002665
RNF19A	0.09322	0.393939	45.79801	1.31E-11	2.49E-07
GDF6	0.097458	0.386364	42.20132	8.23E-11	1.57E-06
GPAA1	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
TCF24	0.084746	0.340909	36.45437	1.56E-09	2.97E-05
EEF1D	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
ZNF23	0.097458	0.295455	22.29626	2.34E-06	0.044456
MT1A	0.055085	0.25	27.64928	1.45E-07	0.002767
AMFR	0.050847	0.25	29.4537	5.73E-08	0.00109
AC104581.1	0.105932	0.310606	22.72338	1.87E-06	0.035593
RHPN1	0.09322	0.363636	38.4505	5.62E-10	1.07E-05
KIAA1429	0.09322	0.363636	38.4505	5.62E-10	1.07E-05
ATAD2	0.09322	0.378788	42.07009	8.81E-11	1.68E-06
TRIM55	0.080508	0.340909	38.16239	6.51E-10	1.24E-05
IRX3	0.050847	0.242424	27.72176	1.40E-07	0.002665
DUS2	0.055085	0.242424	25.96278	3.48E-07	0.006622
FAM91A1	0.088983	0.386364	45.69928	1.38E-11	2.62E-07
GLG1	0.110169	0.363636	32.29363	1.33E-08	0.000252
MYC	0.088983	0.401515	49.54176	1.94E-12	3.69E-08
ASPH	0.084746	0.30303	27.98021	1.23E-07	0.002332
C8orf44	0.080508	0.340909	38.16239	6.51E-10	1.24E-05
ZC2HC1A	0.09322	0.348485	34.94219	3.40E-09	6.46E-05
ZNF594	0.04661	0.227273	26.11359	3.22E-07	0.006125
C8orf34	0.084746	0.340909	36.45437	1.56E-09	2.97E-05
FER1L6	0.088983	0.393939	47.60756	5.21E-12	9.91E-08
OPLAH	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
MT1G	0.050847	0.242424	27.72176	1.40E-07	0.002665
GML	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
ANKRD11	0.122881	0.340909	23.70953	1.12E-06	0.021314
STK3	0.097458	0.393939	44.04758	3.20E-11	6.10E-07
SYCE1L	0.127119	0.356061	25.45059	4.54E-07	0.008635
CTRL	0.055085	0.242424	25.96278	3.48E-07	0.006622
AGRP	0.055085	0.234848	24.30645	8.22E-07	0.015632

ALOX12B	0.067797	0.265152	25.99009	3.43E-07	0.006529
DRG2	0.004237	0.121212	23.70053	1.13E-06	0.021414
CNTROB	0.101695	0.310606	23.98776	9.70E-07	0.018446
TMEM70	0.084746	0.348485	38.23476	6.27E-10	1.19E-05
SLC38A7	0.059322	0.257576	27.61304	1.48E-07	0.002819
EFCAB1	0.072034	0.287879	29.35015	6.04E-08	0.001149
ZFPM2	0.110169	0.393939	39.12945	3.97E-10	7.55E-06
ABCC12	0.029661	0.181818	23.47133	1.27E-06	0.024123
ZHX2	0.09322	0.386364	43.92067	3.42E-11	6.51E-07
SNTB2	0.072034	0.257576	22.88168	1.72E-06	0.032779
CYP11B2	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
OGFOD1	0.050847	0.25	29.4537	5.73E-08	0.00109
DEPTOR	0.097458	0.378788	40.38235	2.09E-10	3.97E-06
PLA2G15	0.059322	0.242424	24.30112	8.24E-07	0.015676
PHF23	0.097458	0.295455	22.29626	2.34E-06	0.044456
ATP6V0D2	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
CNBD1	0.09322	0.363636	38.4505	5.62E-10	1.07E-05
MCM4	0.072034	0.280303	27.68668	1.43E-07	0.002714
TOP1MT	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
VPS35	0.029661	0.181818	23.47133	1.27E-06	0.024123
LY6K	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
SDR16C5	0.067797	0.295455	32.74609	1.05E-08	0.0002
CPNE2	0.055085	0.242424	25.96278	3.48E-07	0.006622
THEM6	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
CDH15	0.122881	0.348485	25.17984	5.22E-07	0.009936
DERL1	0.09322	0.378788	42.07009	8.81E-11	1.68E-06
IRX5	0.055085	0.227273	22.68139	1.91E-06	0.03638
RP11-343C2.12	0.067797	0.257576	24.37647	7.92E-07	0.015074
SOX17	0.067797	0.30303	34.5066	4.25E-09	8.08E-05
VAMP2	0.067797	0.25	22.79482	1.80E-06	0.034295
ADGRG5	0.050847	0.242424	27.72176	1.40E-07	0.002665
TPD52	0.097458	0.356061	35.09278	3.14E-09	5.98E-05
PDF	0.067797	0.257576	24.37647	7.92E-07	0.015074
N4BP1	0.029661	0.181818	23.47133	1.27E-06	0.024123
RP11-249C24.12	0.050847	0.242424	27.72176	1.40E-07	0.002665
CDH16	0.059322	0.234848	22.69198	1.90E-06	0.03618
RP11-77K12.1	0.131356	0.356061	24.2621	8.41E-07	0.015997
RGS22	0.097458	0.393939	44.04758	3.20E-11	6.10E-07
SPIDR	0.076271	0.287879	27.76286	1.37E-07	0.002609
RNF222	0.055085	0.227273	22.68139	1.91E-06	0.03638
CYB5B	0.072034	0.257576	22.88168	1.72E-06	0.032779
CNGB3	0.101695	0.363636	35.26208	2.88E-09	5.48E-05
TRAPPC1	0.101695	0.310606	23.98776	9.70E-07	0.018446
SLURP1	0.088983	0.363636	40.13285	2.37E-10	4.51E-06

<b>RALYL</b>	0.097458	0.371212	38.59102	5.23E-10	9.94E-06
<b>ELMO3</b>	0.055085	0.242424	25.96278	3.48E-07	0.006622
<b>PLAG1</b>	0.067797	0.30303	34.5066	4.25E-09	8.08E-05
<b>ZNF232</b>	0.04661	0.219697	24.42137	7.74E-07	0.014727
<b>HSD11B2</b>	0.055085	0.234848	24.30645	8.22E-07	0.015632
<b>ZFAND1</b>	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
<b>PHF20L1</b>	0.101695	0.393939	42.35407	7.62E-11	1.45E-06
<b>CNGB1</b>	0.050847	0.242424	27.72176	1.40E-07	0.002665
<b>ZBTB16</b>	0.021186	0.159091	22.46305	2.14E-06	0.040759
<b>YTHDF3</b>	0.076271	0.30303	31.09919	2.45E-08	0.000466
<b>PRMT7</b>	0.059322	0.242424	24.30112	8.24E-07	0.015676
<b>GSDMD</b>	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
<b>FBXO32</b>	0.088983	0.378788	43.81719	3.61E-11	6.86E-07
<b>BORCS6</b>	0.067797	0.25	22.79482	1.80E-06	0.034295
<b>PLEKHF2</b>	0.088983	0.378788	43.81719	3.61E-11	6.86E-07
<b>CYB5D1</b>	0.105932	0.310606	22.72338	1.87E-06	0.035593
<b>DPEP3</b>	0.055085	0.242424	25.96278	3.48E-07	0.006622
<b>RP13-582O9.6</b>	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
<b>CMTM2</b>	0.059322	0.25	25.94183	3.52E-07	0.006695
<b>ZC3H18</b>	0.122881	0.348485	25.17984	5.22E-07	0.009936
<b>EBAG9</b>	0.097458	0.393939	44.04758	3.20E-11	6.10E-07
<b>C8orf59</b>	0.09322	0.356061	36.68223	1.39E-09	2.65E-05
<b>PIEZO1</b>	0.122881	0.348485	25.17984	5.22E-07	0.009936
<b>RAD54B</b>	0.09322	0.371212	40.24658	2.24E-10	4.26E-06
<b>HEY1</b>	0.09322	0.348485	34.94219	3.40E-09	6.46E-05
<b>FBXL8</b>	0.055085	0.234848	24.30645	8.22E-07	0.015632
<b>CA3</b>	0.09322	0.356061	36.68223	1.39E-09	2.65E-05
<b>ZNF778</b>	0.122881	0.356061	26.68283	2.40E-07	0.004561
<b>HLA1</b>	0.088983	0.393939	47.60756	5.21E-12	9.91E-08
<b>SNAI3</b>	0.122881	0.348485	25.17984	5.22E-07	0.009936
<b>ZNF704</b>	0.09322	0.356061	36.68223	1.39E-09	2.65E-05
<b>TRIQK</b>	0.09322	0.371212	40.24658	2.24E-10	4.26E-06
<b>MTERF3</b>	0.09322	0.386364	43.92067	3.42E-11	6.51E-07
<b>ATP6V1H</b>	0.067797	0.318182	38.10887	6.69E-10	1.27E-05
<b>CBFA2T3</b>	0.122881	0.348485	25.17984	5.22E-07	0.009936
<b>GEM</b>	0.09322	0.371212	40.24658	2.24E-10	4.26E-06
<b>POLR2C</b>	0.050847	0.242424	27.72176	1.40E-07	0.002665
<b>DRC7</b>	0.050847	0.242424	27.72176	1.40E-07	0.002665
<b>ESRP2</b>	0.055085	0.242424	25.96278	3.48E-07	0.006622
<b>MMP2</b>	0.050847	0.227273	24.34508	8.05E-07	0.015322
<b>HAS2</b>	0.097458	0.378788	40.38235	2.09E-10	3.97E-06
<b>SLC26A7</b>	0.09322	0.371212	40.24658	2.24E-10	4.26E-06
<b>C8orf37</b>	0.09322	0.378788	42.07009	8.81E-11	1.68E-06
<b>YBX2</b>	0.105932	0.310606	22.72338	1.87E-06	0.035593

PLEKHG4	0.055085	0.234848	24.30645	8.22E-07	0.015632
EXT1	0.101695	0.393939	42.35407	7.62E-11	1.45E-06
MT3	0.050847	0.242424	27.72176	1.40E-07	0.002665
CLEC18B	0.105932	0.348485	30.44512	3.43E-08	0.000653
RMDN1	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
RBM12B	0.09322	0.371212	40.24658	2.24E-10	4.26E-06
PSKH2	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
KCNAB3	0.105932	0.310606	22.72338	1.87E-06	0.035593
KCNK9	0.097458	0.378788	40.38235	2.09E-10	3.97E-06
TXNL4B	0.105932	0.325758	25.7159	3.96E-07	0.007526
COL22A1	0.09322	0.378788	42.07009	8.81E-11	1.68E-06
ZC3H3	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
TMEM55A	0.09322	0.363636	38.4505	5.62E-10	1.07E-05
AC105009.1	0.088983	0.378788	43.81719	3.61E-11	6.86E-07
DYNC1LI2	0.059322	0.25	25.94183	3.52E-07	0.006695
THAP11	0.055085	0.242424	25.96278	3.48E-07	0.006622
NRN1L	0.055085	0.242424	25.96278	3.48E-07	0.006622
ST18	0.063559	0.318182	40.00423	2.53E-10	4.82E-06
CES1	0.050847	0.234848	26.01854	3.38E-07	0.006434
PLLP	0.055085	0.242424	25.96278	3.48E-07	0.006622
CTRB1	0.114407	0.356061	29.2852	6.25E-08	0.001189
PXDNL	0.080508	0.310606	31.17944	2.35E-08	0.000448
ZFAT	0.097458	0.393939	44.04758	3.20E-11	6.10E-07
ST3GAL1	0.097458	0.393939	44.04758	3.20E-11	6.10E-07
TP53INP1	0.088983	0.378788	43.81719	3.61E-11	6.86E-07
COG8	0.067797	0.257576	24.37647	7.92E-07	0.015074
CENPT	0.055085	0.242424	25.96278	3.48E-07	0.006622
HYDIN	0.097458	0.295455	22.29626	2.34E-06	0.044456
TOX	0.084746	0.318182	31.28212	2.23E-08	0.000425
CDH5	0.055085	0.25	27.64928	1.45E-07	0.002767
PARP10	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
APRT	0.122881	0.348485	25.17984	5.22E-07	0.009936
RRS1	0.084746	0.340909	36.45437	1.56E-09	2.97E-05
RIMS2	0.105932	0.401515	42.52727	6.97E-11	1.33E-06
CPQ	0.09322	0.393939	45.79801	1.31E-11	2.49E-07
MARVELD3	0.097458	0.295455	22.29626	2.34E-06	0.044456
ODF1	0.09322	0.393939	45.79801	1.31E-11	2.49E-07
VPS13B	0.09322	0.393939	45.79801	1.31E-11	2.49E-07
SBSPON	0.084746	0.348485	38.23476	6.27E-10	1.19E-05
PRSS54	0.050847	0.242424	27.72176	1.40E-07	0.002665
PLEC	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
ANKRD46	0.09322	0.393939	45.79801	1.31E-11	2.49E-07
ERICH1	0.207627	0.454545	23.58762	1.19E-06	0.022708
CBFB	0.059322	0.234848	22.69198	1.90E-06	0.03618

AC138028.1	0.122881	0.348485	25.17984	5.22E-07	0.009936
RP11-343C2.7	0.067797	0.257576	24.37647	7.92E-07	0.015074
SPAG1	0.09322	0.393939	45.79801	1.31E-11	2.49E-07
DPY19L4	0.088983	0.371212	41.96161	9.31E-11	1.77E-06
MVD	0.122881	0.348485	25.17984	5.22E-07	0.009936
ARC	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
SNTG1	0.084746	0.310606	29.61614	5.27E-08	0.001002
SLC10A5	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
SLC7A6OS	0.059322	0.242424	24.30112	8.24E-07	0.015676
DPYS	0.09322	0.409091	49.63179	1.85E-12	3.53E-08
CAPNS2	0.050847	0.227273	24.34508	8.05E-07	0.015322
RSPRY1	0.050847	0.242424	27.72176	1.40E-07	0.002665
PTP4A3	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
AC108925.1	0.088983	0.401515	49.54176	1.94E-12	3.69E-08
TIGD5	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
MON1B	0.127119	0.356061	25.45059	4.54E-07	0.008635
CTC-479C5.12	0.055085	0.242424	25.96278	3.48E-07	0.006622
CDH11	0.059322	0.25	25.94183	3.52E-07	0.006695
CDH8	0.055085	0.265152	31.10892	2.44E-08	0.000464
NCOA2	0.084746	0.363636	41.87726	9.72E-11	1.85E-06
AC026248.1	0.088983	0.393939	47.60756	5.21E-12	9.91E-08
POP1	0.088983	0.393939	47.60756	5.21E-12	9.91E-08
NUDT21	0.050847	0.25	29.4537	5.73E-08	0.00109
CA1	0.09322	0.356061	36.68223	1.39E-09	2.65E-05
LY6D	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
AC090154.1	0.080508	0.340909	38.16239	6.51E-10	1.24E-05
CIAPIN1	0.055085	0.242424	25.96278	3.48E-07	0.006622
GLI4	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
IL7	0.09322	0.348485	34.94219	3.40E-09	6.46E-05
RLTPR	0.055085	0.234848	24.30645	8.22E-07	0.015632
NPBWR1	0.067797	0.310606	36.29438	1.70E-09	3.23E-05
NETO2	0.029661	0.181818	23.47133	1.27E-06	0.024123
SLC25A32	0.09322	0.393939	45.79801	1.31E-11	2.49E-07
CA2	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
SQLE	0.088983	0.393939	47.60756	5.21E-12	9.91E-08
CYC1	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
PDP2	0.059322	0.234848	22.69198	1.90E-06	0.03618
PRKDC	0.076271	0.287879	27.76286	1.37E-07	0.002609
KCTD19	0.059322	0.234848	22.69198	1.90E-06	0.03618
TSPYL5	0.088983	0.393939	47.60756	5.21E-12	9.91E-08
NOL3	0.055085	0.242424	25.96278	3.48E-07	0.006622
ZFH3	0.127119	0.371212	28.48687	9.43E-08	0.001795
MCMD2C2	0.084746	0.340909	36.45437	1.56E-09	2.97E-05
FHOD1	0.055085	0.242424	25.96278	3.48E-07	0.006622

TRAM1	0.084746	0.348485	38.23476	6.27E-10	1.19E-05
IST1	0.101695	0.30303	22.50389	2.10E-06	0.039901
SLC30A8	0.101695	0.393939	42.35407	7.62E-11	1.45E-06
ADGRB1	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
GRHL2	0.09322	0.393939	45.79801	1.31E-11	2.49E-07
NUP93	0.050847	0.242424	27.72176	1.40E-07	0.002665
CPA6	0.09322	0.340909	33.23083	8.18E-09	0.000156
EXOC3L1	0.055085	0.242424	25.96278	3.48E-07	0.006622
UTP23	0.101695	0.386364	40.53896	1.93E-10	3.67E-06
GPR20	0.088983	0.356061	38.3313	5.97E-10	1.14E-05
RIPK2	0.097458	0.363636	36.8277	1.29E-09	2.46E-05
RP11-5A19.5	0.055085	0.234848	24.30645	8.22E-07	0.015632
CNTNAP4	0.127119	0.363636	26.95268	2.08E-07	0.003967
ANGPT1	0.088983	0.401515	49.54176	1.94E-12	3.69E-08
RP11-520P18.5	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
FAM150A	0.063559	0.325758	41.88063	9.70E-11	1.85E-06
C8orf89	0.084746	0.348485	38.23476	6.27E-10	1.19E-05
CTCF	0.055085	0.234848	24.30645	8.22E-07	0.015632
MSC	0.080508	0.356061	41.81861	1.00E-10	1.91E-06
NBN	0.09322	0.363636	38.4505	5.62E-10	1.07E-05
LY6H	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
CDT1	0.122881	0.348485	25.17984	5.22E-07	0.009936
RP1-4G17.5	0.101695	0.30303	22.50389	2.10E-06	0.039901
CHD3	0.105932	0.310606	22.72338	1.87E-06	0.035593
TERF2	0.072034	0.257576	22.88168	1.72E-06	0.032779
MT4	0.050847	0.242424	27.72176	1.40E-07	0.002665
CYP11B1	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
ENKD1	0.055085	0.234848	24.30645	8.22E-07	0.015632
TBC1D31	0.09322	0.378788	42.07009	8.81E-11	1.68E-06
SLC12A3	0.050847	0.242424	27.72176	1.40E-07	0.002665
POLR2K	0.09322	0.393939	45.79801	1.31E-11	2.49E-07
TGS1	0.067797	0.30303	34.5066	4.25E-09	8.08E-05
ZNF706	0.09322	0.401515	47.7018	4.96E-12	9.44E-08
DECR1	0.09322	0.371212	40.24658	2.24E-10	4.26E-06
USB1	0.050847	0.242424	27.72176	1.40E-07	0.002665
GRINA	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
MYOM2	0.207627	0.454545	23.58762	1.19E-06	0.022708
SYBU	0.101695	0.393939	42.35407	7.62E-11	1.45E-06
CA7	0.059322	0.234848	22.69198	1.90E-06	0.03618
SLC52A1	0.042373	0.204545	22.85774	1.74E-06	0.03319
TRPA1	0.084746	0.356061	40.04253	2.48E-10	4.73E-06
TMEM67	0.09322	0.371212	40.24658	2.24E-10	4.26E-06
MMP16	0.09322	0.371212	40.24658	2.24E-10	4.26E-06
GABARAPL2	0.118644	0.356061	27.96047	1.24E-07	0.002356

<b>CCL17</b>	0.055085	0.242424	25.96278	3.48E-07	0.006622
<b>PI15</b>	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
<b>OXR1</b>	0.101695	0.401515	44.19669	2.97E-11	5.65E-07
<b>LACTB2</b>	0.080508	0.348485	39.97716	2.57E-10	4.89E-06
<b>MIS12</b>	0.050847	0.219697	22.70249	1.89E-06	0.035982
<b>TMEM231</b>	0.118644	0.356061	27.96047	1.24E-07	0.002356
<b>KIAA0895L</b>	0.055085	0.242424	25.96278	3.48E-07	0.006622
<b>MMP15</b>	0.050847	0.242424	27.72176	1.40E-07	0.002665
<b>C1QBP</b>	0.050847	0.219697	22.70249	1.89E-06	0.035982
<b>ALOXE3</b>	0.067797	0.265152	25.99009	3.43E-07	0.006529
<b>NDEL1</b>	0.055085	0.227273	22.68139	1.91E-06	0.03638
<b>COL14A1</b>	0.097458	0.378788	40.38235	2.09E-10	3.97E-06
<b>FABP9</b>	0.088983	0.363636	40.13285	2.37E-10	4.51E-06
<b>AC092384.1</b>	0.122881	0.348485	25.17984	5.22E-07	0.009936
<b>ADHFE1</b>	0.084746	0.340909	36.45437	1.56E-09	2.97E-05
<b>HPR</b>	0.101695	0.318182	25.50461	4.41E-07	0.008397
<b>PABPC1</b>	0.09322	0.401515	47.7018	4.96E-12	9.44E-08
<b>CES5A</b>	0.050847	0.242424	27.72176	1.40E-07	0.002665
<b>SNX16</b>	0.088983	0.356061	38.3313	5.97E-10	1.14E-05