

Supplementary database information: Combination of gene and miRNA microarray-expression analysis together with their complementarity analyzed "in silico".

Note: Table shows those genes that are significantly overexpressed in resistant (R) vs sensitive (S) and resistant (R) vs resistant treated (RT) conditions in at least one cell line. These cases are called “-1”; for opposite profile “1”, and “0” for no differential changes

For each gene, predicted target microRNAs are included, obtained from miRWalk and DIANA-microT web server.

Gene Symbol	RefSeq	A2780	OVCAR3	H23	H460	miR-124- 1,2,3	miR-132	miR-7	mir-10a	mir-335	miR-9- 1,3	miR-148a	miR-212	miR-363	miR-95
CUL5	NM_003478	-1	0	0	-1	X	X	X	X	X	X	X	X	X	X
DCP2	NM_152624	-1	0	1	0	X	X	X	X	X	X	X	X	X	X
EGFR	NM_005228	1	-1	-1	0	X	X	X	X	X	X	X	X	X	X
FAM110C	AL137761	1	-1	0	-1	X	X	X	X	X	X	X	X	X	X
FBXO3	NM_012175	-1	0	0	0	X	X	X	X	X	X	X	X	X	X
FMR1	NM_002024	0	-1	1	-1	X	X	X	X	X	X	X	X	X	X
INTU	NM_015693	-1	0	0	-1	X	X	X	X	X	X	X	X	X	X
LPP	NM_005578	-1	0	0	0	X	X	X	X	X	X	X	X	X	X
NFIA	NM_005595	-1	-1	-1	0	X	X	X	X	X	X	X	X	X	X
NFIB	NM_005596	-1	-1	-1	0	X	X	X	X	X	X	X	X	X	X
NOTCH2	NM_024408	0	0	-1	1	X	X	X	X	X	X	X	X	X	X
NUCKS1	NM_022731	-1	0	0	0	X	X	X	X	X	X	X	X	X	X
OCLN	NM_002538	1	1	-1	0	X	X	X	X	X	X	X	X	X	X
PGAP1	NM_024989	-1	-1	0	1	X	X	X	X	X	X	X	X	X	X
PHF20	NM_016436	-1	-1	0	1	X	X	X	X	X	X	X	X	X	X
PRKAG2	AK074675	-1	-1	-1	0	X	X	X	X	X	X	X	X	X	X
PRKAG2	NM_016203	0	-1	0	-1	X	X	X	X	X	X	X	X	X	X
PRTG	NM_173814	0	-1	1	1	X	X	X	X	X	X	X	X	X	X
RABGAP1L	AB019490	-1	0	0	-1	X	X	X	X	X	X	X	X	X	X
SEL1L	NM_005065	-1	-1	1	-1	X	X	X	X	X	X	X	X	X	X
SHANK2	NM_012309	0	-1	-1	-1	X	X	X	X	X	X	X	X	X	X
SSR1	NM_003144	-1	1	1	0	X	X	X	X	X	X	X	X	X	X
STOX2	NM_020225	0	-1	1	-1	X	X	X	X	X	X	X	X	X	X
TMEM87B	NM_032824	0	-1	-1	1	X	X	X	X	X	X	X	X	X	X
TNRC6B	NM_015088	-1	0	0	-1	X	X	X	X	X	X	X	X	X	X
USP31	NM_020718	1	1	-1	-1	X	X	X	X	X	X	X	X	X	X
ZNF264	NM_003417	-1	1	0	-1	X	X	X	X	X	X	X	X	X	X
ANKRD28	NM_015199	0	0	-1	-1	X	X	X	X	X	X	X	X	X	
ATRNL1	NM_207303	-1	-1	1	-1	X	X	X	X	X	X	X	X	X	
BMPR2	NM_001204	-1	0	1	0	X	X	X	X	X	X	X	X	X	
BRCA1	NM_007295	-1	0	1	1	X	X	X	X	X	X	X	X	X	
C1orf21	NM_030806	-1	0	-1	0	X	X	X	X	X	X	X	X	X	
CADM2	NM_153184	0	-1	1	0	X	X	X	X	X	X	X	X	X	
CASC4	NM_138423	-1	0	1	-1	X	X	X	X		X	X	X	X	X
CCDC132	NM_017667	-1	-1	0	0	X	X		X	X	X	X	X	X	X
CDC42BPA	NM_003607	-1	0	0	-1	X	X	X	X	X	X	X	X	X	
CDC42BPA	NM_014826	-1	0	0	-1	X	X	X	X	X	X	X	X	X	
CELSR1	NM_014246	0	0	-1	-1	X	X	X	X	X	X	X	X		X
CEP350	NM_014810	-1	0	1	1	X	X	X	X	X	X	X	X	X	
CIITA	U18259	0	-1	0	0	X	X	X	X	X	X	X	X	X	
CYLD	NM_015247	-1	-1	0	0	X	X		X	X	X	X	X	X	X
DAAM1	NM_014992	0	-1	1	0	X	X		X	X	X	X	X	X	X
DAG1	NM_004393	0	0	-1	1	X	X	X	X	X	X	X	X	X	
EBF1	NM_024007	1	-1	1	0	X	X	X	X	X	X	X	X	X	
EDEM1	NM_014674	-1	0	0	-1	X	X	X	X	X	X	X	X	X	
EHMT1	NM_024757	0	0	-1	0	X	X	X	X	X	X	X	X	X	
ELOVL7	NM_024930	0	1	1	-1	X	X	X	X	X	X	X	X		X
EP300	NM_001429	1	1	-1	1	X	X	X	X	X	X	X	X	X	
EPHA3	NM_005233	-1	-1	1	0	X	X	X	X	X	X	X	X	X	
EPHA5	BX537946	-1	1	0	0	X	X	X	X	X	X	X	X	X	
EPHA5	NM_004439	-1	0	0	1	X	X	X	X	X	X	X	X	X	
FAM135A	NM_020819	-1	-1	1	-1	X		X	X	X	X	X	X	X	X
FNDC3A	NM_014923	-1	-1	0	1	X		X	X	X	X	X	X	X	X
FNDC3B	NM_022763	0	0	-1	0	X	X		X	X	X	X	X	X	X
GALNT7	NM_017423	1	-1	0	1	X	X	X	X	X	X	X	X	X	
GFOD1	NM_018988	1	-1	1	-1	X	X	X		X	X	X	X	X	X
GPAM	NM_020918	-1	-1	1	-1	X	X	X	X	X	X	X	X		X

HIPK2	NM_022740	0	0	-1	0	X	X	X	X	X	X	X	X	X	
HMCN1	NM_031935	-1	-1	-1	1	X	X	X	X	X	X	X	X	X	
IKZF2	NM_001079526	0	-1	1	0	X	X	X	X	X	X	X	X	X	
IL1R1	NM_000877	0	-1	1	0	X	X	X	X	X	X	X	X	X	
ITGAV	NM_002210	-1	1	1	0		X	X	X	X	X	X	X	X	X
ITSN1	NM_001001132	0	-1	1	1	X	X	X	X	X	X	X	X	X	
KBTBD6	NM_152903	0	-1	0	0	X	X		X	X	X	X	X	X	X
KIAA1147	NM_001080392	-1	0	0	-1	X	X	X	X	X	X	X	X	X	
KIAA1217	NM_019590	1	-1	-1	-1	X	X	X	X	X	X	X	X	X	
KIAA1217	NM_019590	1	-1	-1	-1	X	X	X	X	X	X	X	X	X	
KIF1B	NM_183416	-1	1	0	0	X	X	X	X	X	X	X	X	X	
KIRREL	NM_018240	0	0	-1	-1	X	X	X	X	X	X	X	X	X	
KIRREL	AK090554	0	0	-1	0	X	X	X	X	X	X	X	X	X	
KLHL24	NM_017644	-1	0	0	-1	X	X	X	X	X	X	X	X		X
LANCL1	NM_006055	-1	-1	0	0	X	X	X	X	X	X	X	X		X
LIMD1	NM_014240	0	-1	-1	0	X	X	X	X	X	X	X	X	X	
LPGAT1	NM_014873	-1	-1	0	1	X	X	X	X	X	X	X	X		X
LRP1B	NM_018557	0	0	-1	0	X	X	X	X	X	X	X	X	X	
LRRC8B	NM_015350	1	-1	1	0	X	X	X	X	X	X	X	X	X	
MBP	NM_001025100	1	-1	-1	0	X	X	X	X	X	X	X	X	X	
MECP2	NM_004992	-1	0	0	0	X	X	X	X		X	X	X	X	X
MLLT6	NM_005937	-1	0	-1	0	X	X	X	X	X	X	X	X	X	
MME	NM_007289	-1	1	0	0	X	X	X	X	X	X	X	X	X	
MXD1	NM_002357	-1	-1	1	-1	X	X	X	X	X	X	X	X	X	
NAV3	NM_014903	0	0	-1	-1	X	X		X	X	X	X	X	X	X
NBN	NM_002485	-1	0	0	0	X	X	X	X	X	X	X	X		X
NHLRC2	AK126751	-1	0	-1	0	X	X	X	X	X	X	X	X	X	
NOVA1	NM_006491	0	0	-1	1	X	X	X	X	X	X	X	X	X	
NPAS3	NM_022123	0	0	-1	-1	X		X	X	X	X	X	X	X	X
OSBPL3	NM_015550	-1	-1	1	-1	X	X	X	X	X	X	X	X		X
PGPEP1	NM_017712	-1	-1	0	-1	X	X	X	X	X	X	X	X	X	
PIGK	NM_005482	-1	-1	1	0	X	X	X	X	X	X	X	X	X	
POLR1A	NM_015425	0	-1	-1	1	X	X	X	X	X	X	X	X	X	
PPARA	NM_005036	0	-1	-1	-1	X	X	X	X	X	X	X	X	X	
PPP1R16B	NM_015568	0	-1	1	-1	X	X	X	X	X	X	X	X	X	
PRDM2	NM_012231	-1	0	0	-1	X	X		X	X	X	X	X	X	X
PRKG1	NM_006258	0	-1	1	-1	X	X	X	X	X	X	X	X		X
PRKG1	NM_006258	0	-1	1	-1	X	X	X	X	X	X	X	X		X
PTCHD1	BX107899	1	0	-1	-1	X	X	X	X	X	X	X	X	X	
PTPRG	BC036018	-1	-1	-1	0	X	X	X	X	X	X	X	X	X	
PTPRG	NM_002841	0	-1	-1	0	X	X	X	X	X	X	X	X	X	
QKI	NM_006775	-1	1	-1	-1	X	X		X	X	X	X	X	X	X
RAB11FIP2	NM_014904	-1	0	0	-1		X	X	X	X	X	X	X	X	X
RAB6A	NM_002869	-1	1	0	0	X		X	X	X	X	X	X	X	X
RBM5	AF107493	-1	-1	-1	1	X		X	X	X	X	X	X	X	X
RIMS3	NM_014747	-1	0	0	0		X	X	X	X	X	X	X	X	X
RNF213	NM_020914	0	-1	-1	1	X	X	X	X	X	X	X	X	X	
RRP15	NM_016052	-1	-1	-1	-1	X	X	X	X	X	X	X	X	X	
SCYL2	AB037781	-1	-1	1	0	X	X	X	X	X	X	X	X		X
SETDB2	NM_031915	-1	-1	1	0	X	X	X	X	X	X	X	X	X	
SH3PXD2A	NM_014631	-1	0	1	0	X	X	X	X	X	X	X	X	X	
SLC44A1	NM_080546	0	0	-1	0	X	X	X	X	X	X	X	X	X	
SLFN5	NM_144975	-1	-1	-1	-1	X	X		X	X	X	X	X	X	X
SPATA13	NM_153023	0	-1	1	1	X	X	X	X	X	X	X	X	X	
STAMBP	AK023768	-1	0	0	-1	X	X	X	X	X	X	X	X	X	
STEAP2	NM_152999	-1	0	0	-1	X	X	X	X	X	X	X	X	X	
STRN3	NM_014574	-1	0	-1	1	X	X	X		X	X	X	X	X	X
TAF1	NM_004606	0	-1	-1	0	X	X	X	X	X	X	X	X	X	
THAP2	NM_031435	-1	0	-1	-1	X	X	X	X	X	X	X	X	X	
TM2D2	NM_031940	-1	1	1	1	X		X	X	X	X	X	X	X	X
VANGL1	NM_138959	0	0	-1	0	X	X	X	X	X	X	X	X	X	
WIPF2	BC030561	-1	0	-1	0	X	X	X	X	X	X	X	X	X	
ZBTB38	NM_001080412	-1	0	0	-1	X	X	X	X	X	X	X	X		X
ZDHHC2	NM_016353	-1	0	-1	-1	X	X		X	X	X	X	X	X	X
ZFHX4	NM_024721	0	-1	0	-1	X	X		X	X	X	X	X	X	X
ZFYVE16	NM_014733	0	-1	0	-1	X	X	X	X	X	X		X	X	X

ZHX3	NM_015035	0	-1	0	0	X	X	X	X	X	X	X	X	X	
ZNF207	AL834501	-1	-1	0	-1	X	X	X	X	X	X	X	X	X	
ABCA1	NM_005502	-1	-1	-1	1	X		X	X	X	X	X	X	X	
ABHD2	NM_007011	-1	-1	0	0	X	X	X	X		X	X	X	X	
AMMECR1	NM_015365	-1	0	0	-1	X		X	X	X	X	X		X	X
AP4E1	NM_007347	-1	0	1	0	X	X		X	X	X	X	X		X
APPL2	NM_018171	-1	1	0	0	X	X	X		X	X	X	X	X	
ARHGAP17	NM_001006634	1	-1	-1	1		X	X	X	X	X	X	X	X	
ARHGEF12	NM_015313	-1	0	-1	0	X		X	X	X	X	X	X	X	
ARHGEF2	NM_004723	-1	1	0	-1	X		X	X	X	X	X	X	X	
ARID1A	NM_006015	-1	0	-1	1		X		X	X	X	X	X	X	X
ARRB1	NM_004041	1	-1	-1	1	X	X	X	X		X	X		X	X
ATF6	NM_007348	-1	-1	1	-1	X		X	X	X	X	X	X	X	
ATP10D	NM_020453	1	-1	1	-1	X	X	X	X	X		X	X	X	
ATP2A2	NM_001681	0	0	-1	0	X		X	X	X	X	X	X	X	X
ATP2B4	NM_001001396	-1	0	1	1	X		X	X	X	X	X	X	X	
ATP2B4	NM_001684	-1	1	0	1	X		X	X	X	X	X	X	X	
ATXN7L1	AB033044	-1	-1	0	0		X	X	X	X	X	X	X	X	
B4GALT6	NM_004775	-1	1	-1	-1	X	X	X		X	X	X	X	X	
BACE1	NM_012104	-1	0	0	0	X	X	X	X	X	X	X	X		
BAZ2B	NM_013450	-1	0	0	-1	X	X		X	X	X	X	X	X	
BCL2	NM_000633	0	-1	1	0		X	X	X	X	X	X	X	X	
BRD3	NM_007371	-1	0	-1	0		X	X	X	X	X	X	X	X	
CA5B	NM_007220	-1	0	1	-1	X	X		X	X	X	X	X	X	
CALD1	NM_033138	-1	1	1	0	X	X		X	X	X	X	X	X	
CALD1	AF247820	-1	0	1	-1	X	X		X	X	X	X	X	X	
CAMK2D	NM_172127	-1	-1	-1	0		X	X	X	X	X	X	X		X
CAPRIN1	NM_203364	0	0	-1	1	X	X	X	X	X		X	X	X	
CFHR3	NM_021023	-1	0	-1	0		X	X	X	X	X	X	X	X	X
CHM	NM_000390	-1	0	-1	-1	X	X		X	X	X	X	X	X	
CHRM3	NM_000740	-1	0	0	-1	X	X	X	X	X	X	X	X		
CLIP1	NM_002956	-1	0	0	-1	X	X	X	X	X	X	X	X		
CPEB4	NM_030627	0	-1	1	-1		X		X	X	X	X	X	X	X
CPNE8	NM_153634	0	0	-1	0	X	X	X	X	X	X		X	X	
CPT1A	NM_001876	-1	0	-1	1	X		X	X	X	X	X	X	X	
CRB1	NM_201253	0	0	-1	1	X	X	X	X	X	X		X	X	
CREBL2	NM_001310	-1	1	-1	-1	X	X		X		X	X	X	X	X
CRIM1	NM_016441	1	1	-1	1		X	X	X	X	X	X	X		X
CTAGE1	NM_172241	-1	0	-1	-1		X	X	X	X	X	X	X		X
CTDSPL	NM_001008392	0	1	-1	0	X	X	X	X	X		X	X	X	
CXorf23	NM_198279	-1	-1	1	-1		X		X	X	X	X	X	X	X
CYB5B	NM_030579	-1	0	1	1	X	X	X	X	X	X		X		X
CYBRD1	NM_024843	0	-1	-1	1	X	X		X	X	X	X	X		X
DCBLD2	NM_080927	1	-1	0	0	X	X		X	X	X	X	X	X	
DISC1	NM_018662	1	-1	1	1	X		X	X	X	X	X		X	X
DISC1	NM_001012959	1	-1	1	1	X		X	X	X	X	X		X	X
DLAT	NM_001931	1	1	-1	0		X		X	X	X	X	X	X	X
DLG5	NM_004747	-1	-1	-1	0	X	X		X	X	X	X	X	X	
DNAJC16	NM_015291	0	-1	-1	0	X	X	X	X	X	X	X	X		
DNHD1	NM_144666	-1	0	0	-1	X	X	X		X	X	X	X	X	
DNM3	NM_015569	1	-1	1	1		X	X	X	X	X	X	X		X
DPYSL2	NM_001386	-1	1	-1	0	X	X	X		X	X	X	X	X	
DUSP19	NM_080876	-1	-1	0	0	X	X		X	X	X	X	X	X	
DYNC1L1I2	NM_006141	-1	0	1	-1	X	X		X	X	X	X	X		X
EPHA4	NM_004438	-1	0	1	0	X		X	X	X	X	X		X	X
ERLIN2	NM_007175	-1	-1	-1	-1		X	X	X	X	X	X	X	X	
EYA4	NM_004100	-1	0	1	-1	X	X		X	X	X	X	X	X	
FAM120C	NM_017848	1	0	-1	0	X	X	X	X	X	X	X	X		
FAM122C	AK090611	-1	0	1	0	X		X		X	X	X	X	X	X
FAM129A	NM_052966	-1	-1	1	-1	X			X	X	X	X	X	X	X
FAM134B	NM_019000	0	-1	1	0	X	X		X	X	X	X	X		X
FAM76B	NM_144664	-1	1	1	0	X	X		X	X	X	X	X	X	
FBN2	NM_001999	1	-1	0	0	X	X		X	X	X	X	X	X	
FRMD4A	NM_018027	0	-1	-1	0	X	X		X	X	X	X	X		X
FZD6	NM_003506	-1	0	0	0		X	X	X	X	X	X	X	X	
GABRG1	NM_173536	-1	1	1	-1		X	X	X	X	X	X	X		X

[illegible]

RNF141	NM_016422	-1	0	1	0	X	X	X	X	X		X	X	X	
RSU1	NM_012425	-1	0	0	-1	X	X	X	X	X	X	X	X		
SCN2A	NM_021007	0	-1	0	1	X	X	X	X	X	X	X	X		
SCN2B	NM_004588	-1	0	0	0	X		X	X		X	X	X	X	X
SETD2	NM_014159	0	0	-1	1	X	X		X	X	X	X	X	X	
SH2B3	NM_005475	0	0	-1	-1	X	X	X		X	X	X	X	X	
SH3D19	NM_001009555	-1	-1	0	0	X	X		X	X	X	X	X	X	
SLC22A15	NM_018420	-1	-1	1	0	X	X	X	X	X	X	X	X		
SLC7A11	NM_014331	-1	1	0	0	-1		X		X	X	X	X	X	X
SLC7A11	NM_014331	-1	1	0	-1		X		X	X	X	X	X	X	X
SMARCC1	NM_003074	0	0	-1	0	X	X		X	X	X	X	X	X	
SMURF2	AK002019	-1	0	0	-1	X		X		X	X	X	X	X	X
SNX9	NM_016224	0	0	-1	1	X	X	X	X	X	X			X	X
SOBP	NM_018013	0	-1	1	0		X	X	X	X	X	X	X	X	
SPRY1	NM_199327	1	1	-1	-1	X	X	X	X	X		X	X		X
SPRY3	NM_005840	-1	-1	1	0	X	X	X	X	X	X	X	X		
STK17B	NM_004226	0	-1	1	1	X	X		X	X	X	X	X	X	
STK38	NM_007271	-1	0	1	0	X		X	X	X	X	X	X	X	
STK39	NM_013233	0	-1	0	-1	X	X		X	X	X	X	X	X	
STXBP4	NM_178509	-1	0	1	0	X	X		X	X		X	X	X	X
SYNE1	NM_033071	-1	0	1	0	X	X		X	X	X	X	X	X	
SYNE1	NM_182961	-1	-1	0	0	X	X		X	X	X	X	X	X	
SYTL2	NM_206927	0	-1	1	1	X	X		X	X	X	X	X	X	
TANC2	AB046856	-1	0	0	1	X		X	X	X	X	X	X	X	
TBC1D1	NM_015173	0	-1	-1	-1	X	X	X	X		X		X	X	X
TBC1D8B	NM_017752	0	-1	1	-1	X		X	X	X	X	X	X	X	
TBRG1	NM_032811	-1	1	1	-1	X	X	X	X	X	X	X	X		
TMTC1	NM_175861	1	-1	1	-1	X		X	X	X	X	X	X	X	
TMTC2	NM_152588	1	0	-1	0		X	X	X	X		X	X	X	X
TNKS	NM_003747	-1	0	-1	0	X	X		X	X	X	X	X	X	
TPBG	NM_006670	1	0	0	-1		X	X	X	X	X	X	X	X	
TRAK2	NM_015049	-1	-1	1	0		X	X	X	X	X	X	X	X	
TRAK2	NM_015049	-1	-1	1	0		X	X	X	X	X	X	X	X	
TRIM14	NM_014788	0	0	-1	0	X		X		X	X	X	X	X	X
TRIM2	NM_015271	-1	-1	0	0	X	X	X	X	X	X	X	X		
TRPS1	NM_014112	0	-1	0	-1	X	X		X	X	X	X	X		X
TSPAN18	NM_130783	0	0	-1	0	X	X		X	X	X	X	X	X	
TTC28	AK092338	-1	0	-1	0			X	X	X	X	X	X	X	X
TWISTNB	NM_001002926	-1	0	1	-1	X	X	X	X	X	X	X	X		
UBTF	NM_014233	1	1	-1	1	X		X	X	X	X	X	X	X	
UNC5B	NM_170744	-1	1	1	-1	X		X	X	X	X	X	X	X	
VEZF1	NM_007146	-1	0	0	0	X			X	X	X	X	X	X	X
VPS13D	NM_015378	-1	-1	-1	0	X	X	X	X	X	X	X	X		
VPS13D	AK001481	-1	-1	0	0	X	X	X	X	X	X	X	X		
WDR78	NM_207014	-1	-1	0	1		X	X	X	X	X	X	X	X	
WDR78	NM_024763	-1	-1	0	0		X	X	X	X	X	X	X	X	
WHSC1L1	NM_017778	-1	0	0	0	X	X	X		X	X	X	X		X
WIPF1	NM_003387	-1	1	0	0	X	X	X	X	X	X	X	X		
WIPF1	NM_003387	-1	1	0	0	X	X	X	X	X	X	X	X		
ZC3H6	NM_198581	-1	0	0	0	X	X		X	X	X	X	X	X	
ZHX1	NM_001017926	-1	-1	1	0	X	X		X	X	X	X	X	X	
ZNF185	AK095258	-1	-1	-1	0	X	X	X	X	X	X		X		X
ZNF284	CR936662	-1	0	0	-1	X	X	X		X	X	X	X	X	
ZNF449	NM_152695	-1	0	0	-1	X		X	X	X	X	X	X	X	
ZNF471	NM_020813	-1	0	0	0	X	X	X	X	X	X	X	X		
ZNF471	AB037817	-1	0	0	0	X	X	X	X	X	X	X	X		
ZNF655	NM_001009957	1	1	-1	0	X	X		X	X	X	X	X	X	
ZNRF2	NM_147128	1	-1	-1	1		X	X	X	X	X	X	X	X	
ZSCAN12	NM_001039643	-1	0	0	0	X	X	X		X	X	X	X	X	
AAK1	NM_014911	-1	-1	0	-1	X			X	X		X	X	X	X
ABCB8	NM_007188	1	-1	-1	0	X		X	X		X	X	X	X	
ABLIM1	NM_001003408	-1	1	-1	-1		X	X	X	X	X	X	X		
ACTR8	NM_022899	0	0	-1	-1	X	X		X	X		X	X		X
ADAM9	NM_001005845	-1	1	0	1		X	X	X	X	X	X	X		
ADAM9	NM_003816	-1	0	0	0		X	X	X	X	X	X	X		
ADAMTS9	NM_182920	0	-1	-1	-1	X	X		X	X	X		X	X	

AGPAT3	NM_020132	1	-1	-1	-1	X	X		X		X	X	X	X	
ALG9	NM_001077691	-1	0	-1	1	X		X	X	X	X			X	X
ALG9	NM_024740	-1	0	-1	0	X		X	X	X	X			X	X
AMOTL1	NM_130847	0	0	-1	0	X		X	X	X	X	X		X	
ANGEL2	NM_144567	-1	-1	0	-1		X		X	X	X	X	X	X	
ANGPTL1	NM_004673	-1	0	0	-1	X		X		X	X	X	X	X	
ANK2	NM_001148	-1	0	0	0	X		X	X	X	X	X		X	
ANKRD10	NM_017664	-1	0	0	0		X	X	X	X	X	X	X		
ANXA4	NM_001153	-1	-1	-1	0	X	X		X	X	X	X	X		
APOL6	NM_030641	0	-1	-1	-1	X		X	X	X	X	X		X	
ARHGEF17	NM_014786	0	0	-1	1	X			X	X	X	X	X	X	X
ARSD	NM_009589	-1	-1	0	1	X		X	X	X	X	X		X	
ATG7	NM_006395	-1	-1	-1	0	X		X	X	X	X	X	X		
ATG7	AL122075	-1	0	-1	-1	X		X	X	X	X	X	X		
ATP11C	NM_173694	-1	0	0	0	X		X	X	X	X	X		X	
ATP1A2	NM_000702	-1	1	0	-1			X	X	X	X	X	X	X	
BCL11A	NM_138553	1	0	-1	0	X			X	X	X	X		X	X
BCL2L2	NM_004050	-1	0	-1	-1		X		X	X	X	X	X	X	
BID	NM_197966	0	-1	-1	0	X	X	X		X	X	X	X		
C20orf194	BC106086	-1	-1	-1	0	X			X	X	X	X	X	X	
C8orf31	NM_173687	-1	-1	0	1	X	X	X			X	X	X	X	
C8orf37	NM_177965	-1	0	0	0				X	X	X	X	X	X	X
CAMK1D	NM_153498	1	-1	0	-1	X	X		X	X		X	X	X	
CANX	NM_001746	-1	0	1	0	X		X	X	X	X	X			X
CASP10	NM_032977	-1	-1	1	-1	X			X	X	X	X	X	X	
CASP10	NM_032974	-1	0	0	-1	X			X	X	X	X	X	X	
CCT5	NM_012073	0	-1	-1	0	X	X	X		X	X	X	X		
CD302	NM_014880	-1	0	1	0			X	X	X	X	X		X	X
CLCN3	NM_173872	-1	-1	1	-1	X	X			X	X	X	X		X
CLCN3	NM_001829	-1	-1	1	-1	X	X			X	X	X	X		X
CLIP4	NM_024692	-1	1	0	-1			X	X	X	X		X	X	X
CLYBL	NM_206808	-1	0	-1	-1		X		X	X	X	X	X	X	
CTAGE5	NM_203356	-1	-1	1	-1	X	X		X	X	X	X	X		
CTNNB1	NM_001904	0	0	-1	0	X	X		X		X	X	X	X	
DAB2IP	NM_032552	0	1	-1	-1	X	X	X		X		X	X	X	
DNAJC10	NM_018981	-1	0	1	0	X	X	X		X	X	X	X		
EDA	NM_001399	1	-1	0	0	X	X	X	X	X			X	X	
EDA	NM_001005614	0	-1	0	0	X	X	X	X	X			X	X	
EFCAB2	NM_032328	-1	-1	0	-1		X		X	X	X		X	X	X
ELAVL1	NM_001419	0	0	-1	0	X		X	X	X	X	X			X
ELMOD2	NM_153702	-1	1	1	-1		X		X	X	X	X	X		X
ENPEP	NM_001977	0	-1	-1	0	X	X			X	X	X	X		X
EPB41	NM_004437	-1	0	1	0		X		X	X	X	X	X	X	
ERC2	NM_015576	1	-1	1	-1	X			X	X	X	X	X	X	
ERFF1	NM_018948	1	1	-1	0	X	X	X		X	X	X	X		
EXT1	NM_000127	1	-1	1	1	X		X		X	X	X	X	X	
FAS	NM_000043	1	0	-1	1		X	X	X	X		X	X	X	
FJX1	NM_014344	1	0	-1	1		X	X	X			X	X	X	X
FSTL1	NM_007085	-1	0	0	1	X		X	X	X	X	X		X	
GBP3	NM_018284	1	-1	-1	-1			X	X	X	X	X	X	X	
GFPT1	NM_002056	-1	0	1	-1		X		X	X	X	X	X	X	
GLS	NM_014905	-1	-1	0	0		X		X	X	X	X	X	X	
GNB5	NM_016194	-1	0	-1	-1	X		X	X	X	X	X		X	
GOLGA1	NM_002077	-1	0	-1	-1	X		X	X	X	X	X		X	
GOLPH3L	NM_018178	-1	0	0	0			X	X	X	X	X	X	X	
GPATCH8	NM_001002909	-1	0	0	0			X	X	X	X	X	X	X	
H6PD	NM_004285	-1	0	-1	0	X	X	X			X	X	X	X	
IFT57	NM_018010	1	-1	1	-1	X		X	X	X	X	X	X		
IQCH	NM_022784	-1	0	1	-1	X	X	X	X		X		X	X	
IQGAP1	NM_003870	-1	0	0	0	X	X	X		X	X		X		X
ITGB5	NM_002213	0	1	-1	1		X	X	X	X		X	X	X	
ITPKB	NM_002221	-1	0	0	-1	X	X	X		X		X	X	X	
IVD	NM_002225	-1	-1	-1	0	X	X	X	X	X			X	X	
IVNS1ABP	NM_016389	0	-1	-1	0	X	X		X	X	X	X	X		
JAK2	NM_004972	-1	0	1	0			X	X	X	X	X		X	X
KCNV1	NM_014379	0	0	1	-1	X	X			X	X	X	X	X	

KIAA0754	AB018297	-1	-1	-1	-1	X			X	X	X	X	X		X
KIF5A	AB210045	-1	-1	0	1	X	X	X		X		X	X	X	
KLHDC1	NM_172193	-1	0	-1	-1	X	X		X	X	X	X	X		
LARS2	NM_015340	0	0	-1	0	X	X		X	X		X	X	X	
LCP1	NM_002298	0	-1	1	-1	X			X	X	X	X	X	X	
LMBRD2	NM_001007527	-1	0	0	-1	X	X		X	X	X	X	X		
LMLN	NM_033029	-1	0	1	0	X	X		X	X	X	X	X		
LMLN	AL832783	-1	0	1	-1	X	X		X	X	X	X	X		
LTBP2	NM_000428	1	0	-1	1		X		X	X	X	X	X	X	
LYRM7	NM_181705	-1	-1	1	-1		X		X	X	X	X	X	X	
MAGI1	NM_004742	0	-1	0	0		X			X	X	X	X	X	X
MAP3K8	NM_005204	1	1	-1	0	X	X		X	X	X	X	X		
MAPK6	NM_002748	-1	1	0	0	X	X		X	X			X	X	X
MBNL1	NM_207296	-1	0	-1	0		X		X	X	X	X	X	X	
ME1	NM_002395	-1	-1	0	0	X		X	X		X	X		X	X
MOSPD1	NM_019556	-1	1	1	-1	X	X	X		X	X	X	X		
MRAS	NM_012219	-1	-1	-1	-1		X	X	X		X	X	X		X
MRE11A	NM_005590	0	-1	1	0		X		X	X	X	X	X		X
MRE11A	NM_005590	0	-1	1	0		X		X	X	X	X	X		X
MUM1L1	NM_152423	-1	-1	1	0		X		X	X	X	X	X		X
MYH9	NM_002473	-1	0	-1	0	X			X		X	X	X	X	X
NEK1	NM_012224	-1	0	1	0	X			X	X	X	X		X	X
NFIC	NM_005597	0	0	-1	0	X		X	X	X	X		X	X	
NFIX	NM_002501	-1	-1	-1	-1	X	X		X	X		X	X	X	
NKTR	NM_001012651	-1	-1	0	1		X	X	X	X	X	X	X		
NMNAT1	NM_022787	-1	0	-1	-1	X	X		X	X	X	X	X		
NOTCH1	NM_017617	1	0	-1	0	X	X			X		X	X	X	X
NR5A2	NM_205860	1	-1	-1	0	X			X	X	X	X	X	X	
NRG4	NM_138573	-1	-1	1	-1	X	X			X		X	X	X	X
NRN1	NM_016588	1	-1	0	0	X	X	X		X	X		X	X	
NUDT4	NM_199040	-1	-1	1	-1	X	X		X	X	X	X	X		
OAS3	NM_006187	0	0	-1	0	X	X			X		X	X	X	X
OXR1	NM_181354	-1	0	1	0		X	X	X	X	X	X	X		
OXR1	NM_181354	-1	0	1	0		X	X	X	X	X	X	X		
PACRG	NM_152410	-1	-1	0	-1	X	X	X		X			X	X	X
PAK2	NM_002577	0	0	-1	1	X		X	X	X	X	X		X	
PARP14	NM_017554	0	0	-1	-1	X	X	X		X	X	X	X		
PCTP	NM_021213	-1	0	0	1	X	X	X		X	X		X	X	
PDE4A	NM_006202	0	1	-1	1	X	X	X	X	X				X	X
PDE4A	NM_006202	0	1	-1	1	X	X	X	X	X				X	X
PDE6A	NM_000440	-1	1	-1	1		X		X	X	X	X	X		X
PDSS2	NM_020381	-1	-1	0	0	X		X	X	X	X			X	X
PFKL	NM_001002021	0	0	-1	0		X	X	X		X	X	X	X	
PHKA1	NM_002637	0	-1	-1	-1	X	X		X	X	X	X	X		
PIGP	NM_153682	-1	0	0	0	X	X	X	X		X	X	X		
PIM1	NM_002648	1	1	-1	0	X	X	X		X		X	X	X	
POM121	AB014518	0	0	-1	-1		X	X	X		X	X	X	X	
PPFIBP1	NM_177444	-1	1	0	-1		X		X	X	X	X	X		X
PPP1CB	NM_002709	-1	0	0	-1		X		X	X	X	X	X		X
PRDM15	BC067102	1	-1	0	1	X	X	X			X	X	X	X	
PRKCE	NM_005400	-1	-1	0	-1		X		X	X	X	X	X	X	
PTPDC1	NM_177995	-1	0	0	0	X	X	X	X	X	X	X			
RAB15	NM_198686	-1	-1	0	1	X	X	X	X			X	X	X	
RAB3D	NM_004283	0	-1	-1	0	X		X	X	X	X	X	X		
RAB4A	NM_004578	-1	-1	1	-1	X		X	X	X	X	X			X
RAB6B	NM_016577	1	0	-1	-1	X	X	X	X	X	X		X		
RAB8B	NM_016530	-1	0	1	0	X	X		X	X		X	X	X	
RABEP1	NM_004703	0	-1	1	0	X		X	X	X	X			X	X
RAD23B	NM_002874	0	0	-1	-1	X	X		X	X	X	X	X		
RAP2C	NM_021183	-1	-1	0	-1	X			X	X	X	X	X	X	
RAPGEF3	NM_006105	0	0	-1	-1	X		X	X		X	X	X	X	
RASSF2	NM_014737	0	-1	1	-1	X		X			X	X	X	X	X
RAVER2	NM_018211	-1	-1	0	0	X	X		X	X		X	X	X	
RBMS3	NM_014483	-1	-1	0	0	X		X	X	X	X	X	X		
RBMS3	NM_001003793	-1	-1	0	0	X		X	X	X	X	X	X		
RFFL	NM_057178	-1	0	-1	0	X		X	X	X	X	X		X	

RGL1	NM_015149	1	1	0	-1			X	X	X	X	X		X	X
RHOQ	NM_012249	-1	1	1	-1	X	X	X		X	X	X	X		
RNF180	NM_178532	0	-1	1	-1	X			X	X	X	X		X	X
RPS6KA4	NM_003942	-1	-1	-1	0	X		X	X		X	X	X	X	
RRAGD	NM_021244	1	-1	1	-1	X	X		X	X	X	X	X		
RUNX1	NM_001001890	1	-1	-1	-1			X	X	X	X	X	X	X	
SEMA3A	NM_006080	0	-1	0	1		X		X	X	X	X	X	X	
SERP1	NM_014445	-1	0	0	0	X	X	X	X	X	X		X		
SGPL1	NM_003901	-1	-1	-1	-1	X		X	X	X	X		X	X	
SH3KBP1	NM_031892	-1	1	-1	0	X	X	X		X	X		X	X	
SH3TC2	NM_024577	0	0	-1	0	X		X	X		X	X	X	X	
SIX4	NM_017420	0	0	-1	0	X	X		X	X	X	X	X		
SIX4	NM_017420	0	0	-1	0	X	X		X	X	X	X	X		
SLC10A7	AK075364	-1	0	1	0	X	X	X		X	X		X	X	
SLC1A1	NM_004170	1	-1	0	0		X	X	X		X	X	X	X	
SLC25A37	NM_016612	1	0	-1	-1	X		X	X	X	X	X		X	
SLC25A37	AF495725	0	-1	-1	-1	X		X	X	X	X	X		X	
SLC25A37	AK093931	0	-1	-1	-1	X		X	X	X	X	X		X	
SLC25A37	AY032628	0	0	-1	-1	X		X	X	X	X	X		X	
SLC39A14	NM_015359	-1	-1	-1	0	X	X	X		X	X			X	X
SMEK2	NM_020463	-1	-1	0	0	X		X	X	X		X		X	X
SMURF1	NM_020429	1	0	-1	0		X	X	X	X	X		X	X	
SORL1	NM_003105	1	-1	-1	0	X		X	X	X	X	X		X	
SPATA17	NM_138796	-1	0	0	-1	X	X	X		X	X	X	X		
SPG20	NM_015087	-1	0	0	0	X			X	X	X	X	X		X
SPOCK2	NM_014767	0	0	-1	0	X	X	X		X	X	X		X	
STAG2	NM_006603	-1	0	0	0	X	X			X	X	X	X	X	
STX6	AK056657	-1	0	0	0		X	X	X	X	X	X	X		
STYX	NM_145251	-1	-1	0	1	X		X	X	X	X	X		X	
SYNPO	AL831818	0	0	-1	0	X		X	X	X	X	X	X		
TAF9B	NM_015975	-1	0	0	1	X	X	X	X		X	X	X		
TAOK3	NM_016281	-1	-1	1	-1	X	X		X	X	X	X	X		
TAOK3	NM_016281	-1	-1	1	-1	X	X		X	X	X	X	X		
TAPT1	NM_153365	-1	0	1	0		X	X	X	X	X	X	X		
TCEA1	NM_006756	-1	0	0	-1	X	X		X	X	X		X		X
TFDP1	NM_007111	0	-1	-1	0		X	X	X	X		X	X		X
TIGD6	NM_030953	-1	0	0	-1		X	X	X	X	X	X	X		
TK2	NM_004614	-1	0	-1	0	X	X	X	X	X			X	X	
TMCC3	NM_020698	1	-1	1	0	X			X	X	X	X	X	X	
TMEM168	NM_022484	-1	-1	0	-1	X		X	X	X	X	X		X	
TMEM64	NM_001008495	-1	-1	-1	0	X	X		X	X	X	X	X		
TMPRSS4	NM_019894	0	-1	0	0		X			X	X	X	X	X	X
TNFSF4	NM_003326	-1	0	-1	0	X	X	X	X	X	X		X		
TNS3	NM_022748	-1	-1	-1	0	X	X	X	X		X	X		X	
TTC3	NM_003316	-1	-1	1	0	X				X	X	X	X	X	X
TYW3	NM_138467	0	-1	0	0			X	X	X	X	X	X		X
UBE2Z	NM_023079	-1	0	-1	0		X	X		X	X	X	X	X	
UBLCP1	NM_145049	-1	-1	1	1		X	X		X	X	X	X	X	
UBOX5	NM_014948	0	0	-1	-1	X	X		X	X	X		X	X	
USP6NL	NM_001080491	0	0	-1	0	X	X		X	X	X	X	X		
VAMP3	NM_004781	0	-1	0	1	X	X	X		X	X	X	X		
VGLL4	NM_014667	-1	0	-1	-1	X	X	X		X	X	X	X		
VTI1A	NM_145206	-1	0	0	0		X	X		X	X	X	X	X	
WASF2	NM_006990	0	0	-1	-1	X		X	X	X	X	X	X		
WDR36	NM_139281	0	-1	0	-1	X		X	X	X	X	X			X
WHSC1	NM_007331	1	0	-1	0		X	X		X	X	X	X	X	
WHSC1	NM_133334	-1	0	-1	0		X	X		X	X	X	X	X	
XKR6	NM_173683	0	-1	0	-1	X	X	X	X	X			X		X
ZBED3	NM_032367	-1	0	0	-1	X		X		X	X	X	X	X	
ZBTB7A	AL390151	-1	0	-1	-1	X	X		X	X		X	X	X	
ZFH2	AB051549	1	0	-1	-1	X		X		X	X	X	X	X	
ZFP90	NM_133458	-1	1	1	0	X			X	X	X		X	X	X
ZFP90	NM_133458	-1	1	1	0	X			X	X	X		X	X	X
ZMYND11	NM_212479	0	0	-1	0		X		X	X	X	X	X	X	
ZMYND8	AL137703	-1	-1	-1	1	X	X	X	X	X			X	X	
ZNF25	NM_145011	-1	-1	0	-1	X	X		X	X	X		X	X	

ABCB10	NM_012089	0	-1	0	0		X		X	X	X	X	X		
ABCC5	NM_005688	-1	1	-1	0	X		X	X	X	X	X			
ABHD12	NM_015600	1	-1	0	1	X	X	X		X	X	X			
ABLIM3	NM_014945	1	-1	1	-1	X		X		X	X	X		X	
ACACB	NM_001093	-1	-1	1	1			X		X	X		X	X	X
ADD3	NM_016824	-1	0	1	0	X			X	X	X	X		X	
AK2	NM_013411	0	-1	-1	-1	X	X			X	X	X	X		
AKAP7	NM_016377	-1	-1	0	0				X	X	X	X		X	X
ALDH1L2	CR749561	-1	0	1	0	X		X	X	X	X	X			
ALPK1	NM_025144	-1	0	-1	-1	X			X	X	X	X			X
ALS2CL	NM_147129	0	-1	0	-1	X	X	X			X	X	X		
ANGEL1	NM_015305	0	0	-1	1	X	X	X	X	X	X				
ANK3	AK126851	-1	-1	-1	1				X	X	X	X	X	X	
ANK3	NM_020987	-1	0	1	1				X	X	X	X	X	X	
ANKRD13A	NM_033121	-1	0	0	1	X	X		X		X	X	X		
ANTXR1	NM_032208	-1	0	-1	0	X		X		X	X	X		X	
ANXA11	NM_145869	0	-1	-1	0	X		X	X	X			X	X	
AOC3	NM_003734	-1	1	-1	0	X		X		X		X	X	X	
AP2B1	NM_001282	-1	-1	-1	-1	X	X	X		X		X	X		
AP3S2	NM_005829	-1	-1	-1	1	X	X	X	X	X			X		
APBA2	NM_005503	0	-1	-1	-1	X	X			X	X		X	X	
APOBEC3F	NM_145298	0	0	-1	0		X			X	X	X		X	X
APBP2	NM_006380	-1	0	0	0			X	X	X	X	X		X	
ARHGEF6	NM_004840	0	-1	1	0	X		X		X	X	X	X		
ARHGEF9	NM_015185	0	0	-1	0	X	X	X		X		X	X		
ARL13B	NM_182896	-1	1	1	0	X		X	X	X	X	X			
ARL13B	NM_182896	-1	1	1	0	X		X	X	X	X	X			
ARL8B	NM_018184	-1	0	0	-1	X		X		X	X	X		X	
ARSG	NM_014960	-1	0	-1	1	X	X	X		X	X	X			
ARSG	AB023218	-1	-1	0	1	X	X	X		X	X	X			
ATP11A	NM_032189	1	-1	-1	1	X			X	X	X	X		X	
ATP11A	NM_015205	0	-1	0	1	X			X	X	X	X		X	
AVIL	NM_006576	-1	-1	0	0		X	X	X	X	X		X		
AVIL	BX647344	-1	-1	0	0		X	X	X	X	X		X		
AZI2	NM_022461	-1	0	1	0	X	X	X		X	X				X
BCL2L13	NM_015367	0	-1	-1	0	X	X		X		X	X	X		
BCR	NM_021574	1	-1	0	1		X	X	X			X	X	X	
BCR	NM_004327	0	-1	-1	0		X	X	X			X	X	X	
BDKRB2	NM_000623	0	-1	0	0		X		X	X	X	X	X		
BET1	NM_005868	-1	-1	1	-1		X	X		X		X	X	X	
BLCAP	NM_006698	-1	-1	0	0	X	X		X		X	X	X		
BMP1	NM_001199	-1	-1	-1	0	X		X		X	X	X	X		
BMP1	NM_006129	0	0	-1	-1	X		X		X	X	X	X		
BMP1	NM_006128	-1	0	-1	0	X		X		X	X	X	X		
BRD1	NM_014577	0	0	-1	0	X			X	X	X	X	X		
C10orf68	NM_024688	-1	-1	0	0			X	X	X		X		X	X
C15orf27	NM_152335	0	-1	1	0		X		X		X	X	X	X	
C7orf41	NM_152793	1	-1	0	-1	X	X	X	X	X	X				
C9orf114	NM_016390	0	0	-1	0		X	X	X	X		X		X	
CACNB1	NM_000723	-1	-1	-1	0	X	X	X			X		X	X	
CALML4	NM_033429	0	-1	0	-1	X	X	X	X		X			X	
CAMKK1	NM_032294	1	-1	-1	-1		X	X		X		X	X	X	
CAPS2	NM_032606	-1	0	0	0		X	X	X	X	X		X		
CAPS2	AK091839	-1	0	0	0		X	X	X	X	X		X		
CAV1	NM_001753	1	0	-1	1	X		X	X	X	X				X
CBLB	NM_170662	-1	0	0	-1	X			X	X	X	X			X
CBX7	NM_175709	0	-1	-1	-1	X	X	X			X		X	X	
CCDC113	NM_014157	-1	0	1	-1		X	X		X		X	X	X	
CCDC43	NM_144609	-1	0	0	-1			X	X		X	X	X		X
CCDC57	NM_198082	-1	0	-1	0		X			X		X	X	X	X
CCPG1	NM_020739	-1	-1	1	-1				X	X	X	X		X	X
CCPG1	AF011794	-1	0	1	0				X	X	X	X		X	X
CCPG1	NM_004748	-1	0	1	0				X	X	X	X		X	X
CDCP1	NM_022842	0	0	-1	-1	X			X	X		X	X	X	
CDH10	NM_006727	1	-1	0	1			X	X	X	X		X	X	
CDH23	NM_022124	0	-1	0	0		X	X	X		X		X	X	

CDH3	NM_001793	0	0	-1	1		X			X	X	X		X	X
CDKL2	NM_003948	1	-1	1	-1	X	X		X	X		X	X		
CEPT1	NM_001007794	-1	0	-1	0		X		X	X	X	X	X		
CHD3	NM_001005273	-1	0	0	-1			X		X	X	X	X	X	
CLDN1	NM_021101	0	1	-1	0	X		X	X	X		X			X
CLK3	NM_003992	0	1	-1	1	X	X	X	X				X	X	
COL27A1	NM_032888	1	-1	-1	-1	X			X	X	X		X	X	
COL6A3	NM_004369	-1	-1	-1	1	X			X	X	X		X		X
COX19	NM_001031617	-1	-1	-1	-1	X			X	X	X	X	X		X
CPS1	NM_001875	0	-1	1	1	X		X		X		X	X	X	
CRTAP	NM_006371	0	-1	-1	0	X		X		X	X			X	X
CRYZL1	AK057604	-1	0	0	0	X	X		X	X	X		X		
CTNND1	NM_001331	0	0	-1	0	X		X	X	X	X	X			
DCLK2	NM_001040260	0	-1	0	0	X		X		X		X	X	X	
DDX52	AK025721	-1	0	1	-1	X		X	X	X		X			X
DEGS1	NM_003676	1	0	-1	0			X	X	X	X	X	X		
DEGS1	NM_144780	1	0	-1	0			X	X	X	X	X	X		
DGKA	NM_201444	-1	-1	1	1		X	X	X	X			X	X	
DHFR	NM_000791	0	-1	1	1	X	X			X	X		X	X	
DIXDC1	NM_033425	0	-1	1	0		X		X		X	X	X		X
DLG3	NM_021120	-1	-1	1	-1		X	X	X	X	X		X		
DOCK1	NM_001380	0	-1	-1	0		X		X	X	X	X	X		
DYNC2H1	NM_001080463	-1	-1	1	1			X	X	X	X	X		X	
DYX1C1	NM_130810	-1	-1	1	-1	X		X			X	X		X	X
EARS2	NM_133451	0	0	-1	0	X		X	X	X			X	X	
EFHC1	AY608689	-1	-1	0	0	X	X		X			X	X	X	
EHBP1	NM_015252	-1	-1	0	0	X	X			X		X	X	X	
EIF2C1	NM_012199	1	-1	-1	1	X	X	X	X	X	X				
ELMO2	NM_182764	-1	0	0	-1	X	X	X		X		X	X		
ELP3	NM_018091	0	0	-1	-1	X		X		X	X			X	X
EME2	AK074080	0	-1	-1	1		X		X		X	X	X	X	
ENC1	NM_003633	1	-1	-1	1		X		X	X	X	X	X		
EPB41L1	NM_012156	-1	-1	0	-1	X			X	X	X	X		X	
EPS8	NM_004447	1	-1	1	-1	X	X		X	X			X	X	
ERGIC1	NM_001031711	0	0	-1	-1		X		X	X	X		X	X	
FAP	NM_004460	-1	-1	0	0		X		X	X		X	X	X	
FBN1	NM_000138	-1	0	1	0			X	X	X	X	X		X	
FCHSD1	NM_033449	-1	-1	-1	-1	X					X	X	X	X	X
FGF2	NM_002006	1	0	-1	-1	X		X	X	X	X	X			
FGF7	NM_002009	0	-1	1	-1		X		X	X	X	X	X		
FNBP1	NM_015033	-1	0	-1	1	X			X		X	X	X	X	
FOXC1	NM_001453	1	1	-1	0	X			X	X	X	X			X
FXN	NM_181425	0	0	-1	1			X		X	X	X	X		X
GALNT5	NM_014568	-1	-1	1	0	X		X		X	X	X		X	
GJA1	NM_000165	1	1	-1	1	X			X	X	X	X			X
GJA1	NM_000165	1	1	-1	1	X			X	X	X	X			X
GJA5	NM_005266	-1	1	0	0	X		X	X	X	X	X			
GPR135	NM_022571	1	0	-1	0				X	X	X	X	X	X	
HDAC5	NM_001015053	-1	1	-1	0	X		X			X	X	X	X	
HECW2	NM_020760	1	-1	1	0		X	X		X	X	X		X	
HECW2	NM_020760	1	-1	1	0		X	X		X	X	X		X	
HFE	NM_139009	-1	1	-1	-1	X		X	X	X	X	X			
HLCS	NM_000411	-1	0	-1	-1	X			X	X	X	X		X	
HOMEZ	NM_020834	0	-1	-1	-1	X	X		X	X	X		X		
IFT172	NM_015662	-1	-1	1	0	X		X	X	X		X	X		
IGSF10	NM_178822	0	-1	1	1			X	X	X	X	X		X	
IKBKB	NM_001556	0	0	-1	-1	X	X	X		X		X	X		
IL20RB	NM_144717	-1	0	0	-1	X	X			X	X	X		X	
INADL	NM_176877	-1	0	0	-1	X	X			X	X	X		X	
IRF2BP2	NM_182972	-1	0	-1	-1	X			X	X	X	X			X
ISY1	NM_020701	-1	-1	-1	-1			X		X	X	X	X	X	
ITFG1	NM_030790	-1	0	1	1		X		X	X	X	X	X		
ITPR2	NM_002223	-1	0	1	-1		X			X	X	X	X	X	
JAG2	NM_002226	1	0	-1	1	X		X		X	X	X	X		
JAK3	BC028068	-1	-1	-1	1	X		X			X	X	X	X	
JOSD1	NM_014876	-1	-1	-1	0		X			X	X	X	X	X	

KCNK2	NM_001017424	1	-1	-1	1	X	X		X	X	X		X		
KIAA1109	BC108274	-1	0	-1	0			X	X	X	X	X		X	
KIAA1109	DQ335469	-1	0	1	0			X	X	X	X	X		X	
KIAA1109	CR936613	-1	0	0	0			X	X	X	X	X		X	
KIAA1211	AL133028	-1	-1	1	-1		X	X		X	X		X	X	
KIDINS220	NM_020738	-1	0	1	0			X	X	X	X	X		X	
KIF13B	NM_015254	0	-1	0	0	X				X	X		X	X	X
KLHDC4	AY251274	-1	0	0	-1					X	X	X	X	X	X
LAMC1	NM_002293	0	0	-1	1	X		X	X		X	X		X	
LGR4	NM_018490	1	0	-1	1	X	X			X	X		X	X	
LONP2	NM_031490	1	-1	0	0	X		X	X	X	X	X			
LRRFIP1	BC010662	-1	-1	0	0	X	X		X	X	X		X		
LRRK1	NM_024652	0	0	-1	0		X	X		X		X	X	X	
LTBP1	NM_206943	1	-1	0	0	X	X		X	X		X	X		
MAB21L2	NM_006439	0	-1	-1	0			X	X	X			X	X	X
MAGI2	NM_012301	0	0	-1	-1	X			X		X	X		X	X
MAP2K6	NM_002758	-1	-1	1	1	X				X	X	X		X	X
MAP4	NM_002375	0	-1	-1	-1	X			X		X	X		X	X
MAPK10	NM_138980	-1	-1	-1	1	X		X	X	X		X	X		
MAPKAP1	NM_001006617	-1	0	-1	-1		X	X	X	X	X			X	
MARCH3	NM_178450	1	-1	0	-1	X		X	X	X		X		X	
MCF2L	AK092739	-1	-1	0	0		X		X	X	X	X	X		
METTL3	AK097873	-1	0	-1	0			X		X	X	X	X	X	X
MIB2	NM_080875	-1	1	-1	0		X	X					X	X	X
MKRN2	NM_014160	-1	0	0	0				X	X	X	X	X	X	
MTHFR	NM_005957	-1	-1	1	-1			X		X	X	X	X	X	
MYT1	NM_004535	-1	-1	0	1				X	X	X	X	X	X	
NAGA	NM_000262	-1	0	-1	0			X		X	X	X	X	X	
NEDD9	NM_006403	0	-1	0	1	X	X	X	X	X				X	
NEK11	NM_024800	-1	0	-1	-1			X	X	X		X	X		X
NEK11	NM_145910	-1	0	-1	-1			X	X	X		X	X		X
NF2	NM_181831	1	-1	0	0	X		X	X		X	X		X	
NF2	NM_181832	-1	-1	0	0	X		X	X		X	X		X	
NFE2L1	NM_003204	-1	0	-1	-1	X			X		X	X	X	X	
NOL9	NM_024654	1	0	-1	1		X	X	X		X	X	X		
NSFL1C	NM_016143	-1	0	-1	-1		X	X	X	X	X		X		
NUAK1	NM_014840	0	0	-1	1	X			X	X	X	X	X		X
NUB1	NM_016118	-1	0	-1	0	X		X	X	X	X			X	
NUBPL	NM_025152	0	0	-1	-1			X	X	X	X			X	X
NUDT19	XM_372723	0	-1	-1	-1	X	X			X			X	X	X
NUP43	NM_198887	0	-1	1	0	X			X	X	X	X		X	
OGT	NM_181672	-1	-1	0	0		X	X	X		X	X	X		
PAM	NM_138822	0	-1	-1	1	X	X			X	X	X	X		
PANK2	AL713654	0	0	-1	0			X	X	X	X	X	X		
PAQR8	NM_133367	-1	-1	0	-1	X		X	X	X		X	X		
PATZ1	NM_032051	0	-1	-1	1	X		X		X	X	X		X	
PATZ1	NM_014323	0	0	-1	0	X		X		X	X	X		X	
PBLD	NM_022129	-1	-1	0	0	X		X	X	X		X	X		
PCDH7	NM_032457	1	-1	-1	0				X	X	X	X	X	X	
PCMTD1	NM_052937	-1	-1	0	-1		X		X	X	X		X	X	
PCMTD1	AF293366	-1	0	0	0		X		X	X	X		X	X	
PDCD2	NM_002598	0	-1	-1	0		X	X	X	X			X	X	
PDCD4	NM_145341	1	-1	0	0	X	X		X	X	X		X		
PDPK1	NM_002613	-1	0	0	-1			X	X	X	X	X		X	
PFKFB3	NM_004566	1	-1	0	0	X	X			X	X	X	X		
PHKB	NM_000293	-1	-1	0	0		X		X	X	X	X	X		
PIK3C2B	NM_002646	-1	0	-1	0			X	X	X	X	X	X		
PIP5K1B	NM_003558	0	-1	0	-1	X	X	X		X	X		X		
PLEKHG1	NM_001029884	0	0	1	-1		X			X		X	X	X	X
PLEKHM1	NM_014798	-1	0	0	-1	X	X	X				X	X	X	
PNPLA4	NM_004650	0	0	-1	-1		X		X		X	X	X	X	
POLH	AK025631	-1	-1	1	1	X	X	X	X				X	X	
PPIL2	NM_148175	-1	0	-1	1			X	X	X	X	X	X		
PPIL6	NM_173672	-1	0	-1	-1		X	X	X	X	X	X			
PPM1B	NM_177968	1	-1	1	1	X			X	X	X	X		X	
PREPL	NM_006036	-1	-1	1	-1	X		X	X	X	X	X			

PRICKLE1	NM_153026	1	0	-1	0	X		X	X	X			X	X	
PSMD5	NM_005047	0	0	-1	1	X	X		X	X			X	X	
PSMD8	BC071826	0	0	-1	-1		X	X	X	X		X	X		
PTAFR	NM_000952	0	-1	0	0	X		X	X		X	X		X	
QSOX2	NM_181701	0	0	-1	0		X	X		X	X	X	X		
RAB31	NM_006868	-1	0	-1	-1	X	X			X		X	X		X
RABIF	NM_002871	0	-1	-1	-1	X		X	X		X	X	X		
RABL3	NM_173825	-1	0	-1	-1		X		X	X	X	X		X	
RAPGEF1	NM_198679	0	0	-1	-1	X		X	X	X		X		X	
RBM15B	NM_013286	0	0	-1	0	X	X		X	X		X	X		
RECK	BC060806	-1	1	1	1	X			X	X	X	X	X		
RECK	NM_021111	-1	0	0	0	X				X	X	X	X	X	
RFX1	NM_002918	0	0	-1	1	X	X		X		X		X	X	
RNF145	NM_144726	-1	-1	0	0	X			X	X	X	X	X		
RNF207	NM_207396	0	-1	-1	1			X		X		X	X	X	X
RORB	BX647070	-1	0	0	-1	X	X		X	X		X	X		
SAMD4A	AB028976	0	1	-1	0	X	X		X	X	X		X		
SAMD5	NM_001030060	1	-1	1	0		X		X	X	X	X		X	
SCN9A	NM_002977	-1	1	1	-1	X				X	X	X		X	X
SCRN1	NM_014766	-1	-1	-1	0		X	X	X		X		X	X	
SCRN2	NM_138355	-1	-1	-1	0	X		X	X	X	X		X		
SCRN3	NM_024583	-1	-1	1	-1	X				X	X	X	X	X	
SDCBP	AK128645	-1	1	1	-1	X	X			X	X	X	X	X	
SDCBP	NM_005625	-1	1	0	-1	X	X			X	X	X	X		
SEMA3E	NM_012431	0	1	-1	-1	X			X	X	X	X		X	
SF3B3	D13642	-1	-1	-1	-1			X	X	X	X	X		X	
SH3BP2	NM_003023	0	-1	0	0	X	X	X	X			X	X		
SHC1	NM_183001	-1	1	-1	1	X			X	X	X	X		X	
SHC1	NM_003029	-1	1	-1	0	X			X	X	X	X		X	
SHH	NM_000193	1	0	-1	1	X	X		X	X	X		X		
SLC13A2	NM_003984	0	0	-1	-1		X	X				X	X	X	X
SLC24A1	NM_004727	-1	0	-1	0				X	X	X	X	X	X	
SLC25A30	NM_001010875	-1	1	0	-1	X	X	X		X	X			X	
SLC46A1	NM_080669	1	-1	-1	-1	X		X			X	X		X	X
SLC8A1	NM_021097	0	-1	-1	1			X	X	X	X	X	X		
SLC8A1	NM_021097	0	-1	-1	1			X	X	X	X	X	X		
SLC9A9	NM_173653	1	-1	0	-1	X	X		X	X		X	X		
SLU7	NM_006425	-1	-1	1	-1				X	X	X	X		X	X
SMPDL3A	NM_006714	-1	1	0	-1	X	X		X		X		X	X	
SPTBN1	NM_178313	-1	1	-1	1	X		X		X		X	X		X
SPTBN1	NM_003128	-1	1	-1	0	X		X		X		X	X		X
STARD13	NM_178006	0	0	-1	1				X	X	X	X	X	X	
STEAP3	NM_182915	1	0	-1	-1	X		X			X	X	X	X	
SUMF1	NM_182760	-1	0	-1	0	X		X	X			X		X	X
SUSD1	NM_022486	1	-1	-1	0		X	X		X		X	X	X	
SVIL	NM_021738	-1	-1	-1	1	X	X		X	X	X	X			
TBC1D2B	NM_015079	0	-1	-1	0	X	X	X		X	X		X		
TBC1D5	NM_014744	0	-1	-1	0	X		X		X	X	X		X	
TENC1	NM_015319	1	0	-1	1		X		X		X	X	X	X	
THTPA	NM_024328	0	-1	-1	1	X		X	X		X		X	X	
TLE1	NM_005077	0	1	1	-1		X		X		X	X	X	X	
TLE3	NM_005078	1	1	-1	1			X	X	X	X	X		X	
TLE3	AB046767	0	1	-1	1			X	X	X	X	X		X	
TNFAIP2	NM_006291	1	-1	0	-1	X	X	X	X	X			X		
TNFRSF21	NM_014452	1	0	-1	0	X			X	X	X	X		X	
TOM1	NM_005488	-1	-1	-1	-1	X		X	X		X	X		X	
TOM1L1	NM_005486	-1	0	0	-1	X	X	X		X		X	X		
TOP3B	NM_003935	0	-1	-1	-1	X	X	X				X	X	X	
TPK1	NM_022445	0	-1	1	-1	X	X			X	X	X	X		
TPM1	NM_000366	-1	1	1	1	X				X	X		X	X	X
TPM1	NM_000366	-1	1	1	1	X				X	X		X	X	X
TPM1	NM_001018004	-1	0	0	1	X				X	X		X	X	X
TRA2A	NM_013293	0	-1	-1	0		X			X		X	X	X	X
TRAK1	NM_001042646	0	0	-1	0	X	X			X		X	X		X
TSC22D4	NM_030935	-1	-1	-1	0	X		X		X	X		X	X	
TSHZ1	NM_005786	0	-1	-1	0	X	X			X	X	X	X		

TSLP	NM_033035	1	-1	0	-1	X		X	X	X	X	X			
TSPAN14	NM_030927	0	1	-1	0	X	X	X				X		X	X
TTC23	NM_022905	-1	-1	0	0		X			X	X	X	X	X	
TWIST2	NM_057179	0	-1	-1	0	X		X	X				X	X	X
UBE2E2	NM_152653	0	0	-1	-1		X		X	X	X	X	X		
UBP1	NM_014517	0	0	-1	0		X		X	X	X		X		X
USP2	BC041366	-1	1	1	0	X		X		X	X	X		X	
USP44	NM_032147	1	-1	0	1		X			X	X	X	X	X	
USP47	NM_017944	-1	0	0	-1	X	X			X	X	X	X		
USP54	NM_152586	0	-1	0	0	X	X	X	X				X	X	
UST	NM_005715	-1	-1	0	-1	X			X	X		X	X	X	
UVRAG	NM_003369	0	0	-1	0	X				X	X	X	X	X	
VT11B	NM_006370	-1	0	0	0	X		X		X	X	X	X		
WT1	NM_024424	0	0	-1	-1		X		X	X	X	X	X		
ZBTB4	NM_020899	0	-1	-1	-1			X	X	X	X		X	X	
ZDHHC11	NM_024786	-1	1	1	-1	X		X		X	X		X	X	
ZIC1	NM_003412	-1	0	-1	0		X	X	X	X	X		X		
ZNF33A	AK027057	-1	-1	0	-1	X			X	X	X	X		X	
ZNF33B	NM_006955	0	-1	0	0	X			X	X	X	X		X	
ZNF583	NM_152478	-1	0	1	0			X	X	X	X	X		X	
ZSCAN20	NM_145238	0	1	-1	0	X			X		X	X		X	X
ABCC1	NM_019862	0	-1	-1	-1	X		X			X	X		X	
ABCC3	NM_003786	1	0	-1	-1	X		X	X				X	X	
ABCF2	NM_007189	0	0	-1	-1	X	X						X	X	X
ABCG1	NM_207630	0	-1	-1	-1		X	X	X		X		X		
ACAD11	NM_032169	-1	0	-1	1	X	X		X				X	X	
ACSL3	NM_004457	-1	1	1	-1				X	X	X	X			X
ACSM3	NM_202000	-1	-1	1	0		X			X	X	X	X		
ACYP2	NM_138448	-1	-1	-1	-1			X		X	X	X		X	
ADAMTS15	NM_139055	-1	0	-1	0		X		X				X	X	X
AHNAK	NM_001620	1	-1	-1	-1	X	X	X		X	X				
AHNAK	NM_001620	1	-1	-1	-1	X	X	X		X	X				
AHNAK2	BC090889	1	-1	1	-1	X	X	X			X		X		
AMOTL2	NM_016201	1	0	-1	1			X		X	X	X		X	
ANGPTL2	NM_012098	-1	-1	-1	1	X		X		X			X		X
ANKMY1	NM_017844	-1	0	-1	-1	X	X	X					X		X
ANKMY1	AL136618	-1	1	-1	0	X	X	X					X		X
ANKMY1	NM_016552	-1	0	-1	0	X	X	X					X		X
ANKS6	NM_173551	0	-1	-1	0	X		X		X	X	X			
AP1S3	NM_001039569	1	-1	1	1					X	X	X	X	X	
ARID1B	NM_175863	0	-1	-1	-1					X	X	X	X	X	
ARID1B	NM_017519	0	-1	-1	1					X	X	X	X	X	
ASAH1	AK025211	-1	-1	1	1		X			X	X	X	X		
ASAH1	NM_004315	0	-1	0	1		X			X	X	X	X		
ATP10A	NM_024490	1	1	-1	-1			X			X	X	X	X	
ATP6AP1	NM_001183	-1	-1	1	-1			X		X			X	X	X
BAI3	NM_001704	-1	0	1	0					X	X	X		X	X
BBS7	NM_176824	-1	-1	0	-1				X	X	X	X		X	
BCOR	NM_017745	1	1	-1	1	X				X	X	X		X	
BHLHB9	NM_030639	-1	0	-1	0	X		X	X	X	X				
C10orf32	NM_144591	-1	-1	-1	0	X			X	X	X	X			
C14orf102	AK024113	-1	0	-1	0	X	X	X		X	X				
C1QTNF3	NM_181435	-1	-1	0	1	X		X	X	X					X
C1R	NM_001733	-1	0	-1	1	X	X	X	X				X		
C1RL	NM_016546	-1	0	-1	-1		X		X				X	X	X
C3orf62	NM_198562	-1	0	-1	0	X	X			X	X		X		
C4orf33	NM_173487	-1	-1	1	0			X	X	X	X	X			
C6orf89	NM_152734	-1	0	0	0	X		X		X			X		X
C7orf31	NM_138811	-1	0	0	0	X			X	X	X			X	
CA12	NM_001218	-1	0	0	1	X				X			X	X	X
CA12	AK000158	-1	-1	0	1	X				X			X	X	X
CA12	NM_001218	-1	0	0	1	X				X			X	X	X
CABLES2	NM_031215	-1	-1	1	-1	X					X	X	X	X	
CALCOCO2	NM_005831	-1	-1	0	-1		X		X		X	X	X		
CAMK2N1	NM_018584	0	-1	1	-1		X			X			X	X	X
CBX1	NM_006807	-1	0	0	0	X	X				X	X	X		

CCDC122	NM_144974	-1	0	-1	-1			X		X		X		X	X
CCNL2	NM_030937	-1	0	0	1	X		X		X	X		X		
CD59	NM_203330	-1	0	-1	1	X			X	X	X			X	
CD72	NM_001782	-1	0	-1	1		X	X	X			X			X
CD8A	NM_001768	-1	-1	-1	-1		X	X	X		X		X		
CD99L2	NM_031462	-1	0	0	1			X	X		X	X		X	
CDH1	NM_004360	0	1	-1	0	X			X	X	X			X	
CDH26	NM_021810	-1	-1	0	0			X	X	X	X	X			
CDK9	NM_001261	1	1	-1	0			X	X	X	X			X	
CDRT1	NM_006382	-1	0	-1	0		X		X		X	X	X		
CEACAM1	NM_001024912	1	-1	-1	0	X			X	X	X	X			
CEACAM1	NM_001712	0	0	-1	0	X			X	X	X	X			
CENPJ	NM_018451	-1	1	1	0		X			X	X	X	X		
CEP170	NM_014812	1	-1	0	0	X		X	X	X		X			
CHCHD5	NM_032309	-1	0	-1	-1			X	X	X	X		X		
CHRA1	NM_017444	-1	0	0	1		X		X	X	X		X		
CLGN	NM_004362	-1	1	1	-1				X	X	X	X		X	
CLIP2	NM_003388	0	0	-1	0				X		X	X	X	X	
CLIP3	NM_015526	0	0	-1	1	X		X	X				X	X	
CLN5	NM_006493	-1	-1	-1	0	X		X		X	X	X			
CMTM3	NM_144601	0	0	-1	0		X	X		X		X	X		
CNN3	NM_001839	-1	1	1	1	X		X		X		X	X		
CNP	NM_033133	0	-1	-1	1			X	X	X	X	X			
COL13A1	NM_005203	1	1	-1	-1			X		X	X		X	X	
COL21A1	NM_030820	0	-1	1	1				X	X	X		X		X
COL3A1	NM_000090	-1	1	0	0				X	X	X	X			X
CORO7	NM_024535	0	0	-1	-1	X	X	X					X	X	
CRAT	NM_000755	0	1	-1	0	X	X		X	X			X		
CSAD	NM_015989	-1	-1	1	1					X	X	X		X	X
CSNK1E	NM_152221	0	1	-1	1			X	X	X	X	X			
CSPG4	NM_001897	-1	-1	-1	1			X	X			X	X	X	
CTBS	BC024007	-1	0	0	-1				X	X	X	X	X		
CUBN	NM_001081	0	-1	0	-1		X			X		X	X	X	
DMKN	NM_033317	-1	-1	-1	1	X		X		X	X	X			
DOCK11	NM_144658	1	-1	1	0				X	X	X		X	X	
DOCK8	NM_203447	0	-1	1	1			X	X	X		X		X	
EIF4B	NM_001417	-1	-1	0	0				X	X	X			X	X
ENTPD7	NM_020354	-1	0	1	-1		X	X	X	X			X		
ERBB2	NM_001005862	0	0	-1	0	X		X				X	X	X	
ETV5	NM_004454	0	0	-1	-1	X		X		X		X		X	
EVC	AF216184	-1	0	-1	0	X		X				X	X	X	
EXOC6B	AK023791	-1	0	0	-1			X	X	X	X	X			
FAM123B	NM_152424	0	0	-1	0	X		X	X	X	X				
FAM129B	AF151783	1	1	-1	0	X	X	X			X		X		
FAM63A	NM_018379	0	-1	1	1	X	X	X			X		X		
FARP1	NM_005766	-1	0	-1	-1	X		X		X	X			X	
FBLIM1	NM_017556	-1	0	-1	-1	X		X		X	X		X		
FBLN1	NM_006486	-1	0	-1	1	X	X	X		X	X				
FBLN1	NM_001996	0	0	-1	1	X	X	X		X	X				
FBXL16	NM_153350	1	-1	-1	-1		X	X			X		X	X	
FBXO36	NM_174899	-1	-1	1	0	X			X	X	X			X	
FBXO4	NM_012176	-1	-1	-1	0		X			X	X		X	X	
FBXO41	NM_001080410	0	0	-1	0				X		X	X	X	X	
FBXW8	NM_153348	0	-1	-1	-1	X			X		X		X	X	
FKBP7	NM_181342	-1	0	0	1			X		X	X	X			X
FKBP9	NM_007270	-1	0	-1	0			X	X	X		X			X
FLRT3	NM_198391	0	0	-1	-1	X			X	X	X	X			
FOXJ2	NM_018416	-1	-1	-1	1			X	X	X	X			X	
GALNS	NM_000512	-1	-1	-1	0			X	X	X			X	X	
GATA3	NM_001002295	1	0	-1	0	X			X	X	X				X
GCNT3	NM_004751	0	-1	1	-1		X	X				X	X	X	
GEMIN8	NM_017856	-1	0	-1	-1			X	X	X	X	X			
GFAP	NM_002055	-1	0	0	-1	X				X	X		X	X	
GIT1	NM_014030	0	1	-1	0			X			X	X	X	X	
GLI3	NM_000168	0	0	-1	1	X		X		X		X		X	
GLYCTK	NM_145262	0	0	-1	0		X	X		X		X		X	

GNAI3	NM_006496	-1	0	1	-1	X			X	X	X	X			
GNB4	NM_021629	-1	1	1	1	X		X	X	X		X			
GOSR2	NM_004287	-1	0	-1	1	X			X	X	X	X			
GPR85	NM_018970	-1	-1	0	1	X				X	X		X	X	
GSTK1	NM_015917	-1	-1	-1	0	X		X		X			X	X	
GSTM2	NM_000848	-1	-1	1	0		X			X		X	X	X	
GTF2IRD1	NM_005685	-1	0	-1	0	X		X		X	X		X		
GTF2IRD2	BC061590	-1	-1	-1	1		X	X		X			X	X	
GTF2IRD2	NM_173537	0	-1	-1	0		X	X		X			X	X	
GTPBP1	NM_004286	0	0	-1	0			X	X		X	X		X	
GTPBP2	NM_019096	-1	1	0	-1		X			X	X		X		X
H2AFJ	NM_018267	-1	-1	0	-1			X		X	X	X			X
HEPACAM	NM_152722	0	0	-1	0	X				X	X	X		X	
HEPH	NM_014799	-1	-1	-1	1				X	X	X	X		X	
HFM1	NM_001017975	-1	0	-1	-1		X			X	X	X	X		
HIBADH	NM_152740	1	-1	0	0		X		X		X		X	X	
HIGD1A	NM_014056	0	-1	0	0	X	X				X	X	X		
HIST1H4H	NM_003543	0	-1	0	1		X		X	X	X		X		
HLA-DPA1	NM_033554	1	-1	1	0		X		X		X	X	X		
HLA-DPB1	NM_002121	1	-1	1	0	X	X		X	X			X		
HSPBAP1	NM_024610	-1	-1	-1	-1	X		X		X		X		X	
HYOU1	NM_006389	-1	0	1	-1			X		X	X	X	X		
IFIT2	NM_001547	0	-1	-1	0			X	X	X	X			X	
IFT122	NM_018262	0	0	-1	1			X	X		X	X	X		
IGFBP3	NM_001013398	-1	-1	0	0	X					X	X	X	X	
JAKMIP2	NM_014790	1	-1	1	-1		X			X	X	X	X		
KCTD13	NM_178863	-1	0	0	-1				X		X		X	X	X
KIAA0556	NM_015202	-1	0	-1	-1	X				X	X		X	X	
KIAA1407	NM_020817	-1	0	-1	-1			X		X	X	X		X	
KLC4	NM_201523	-1	0	-1	0	X		X				X	X	X	
LAMC3	NM_006059	0	1	-1	1			X	X		X			X	X
LDLR	NM_000527	-1	0	-1	-1		X	X			X	X	X		
LIF	NM_002309	1	1	-1	0	X		X	X			X		X	
LIF	NM_002309	1	1	-1	0	X		X	X			X		X	
LIMA1	NM_016357	-1	-1	1	0				X	X	X		X	X	
LIPG	NM_006033	1	1	-1	-1	X	X				X	X	X		
LMO7	NM_005358	0	1	-1	1			X	X	X	X	X			
LMX1B	NM_002316	1	1	-1	0		X	X			X		X	X	
LRP10	NM_014045	1	0	-1	1			X		X	X		X	X	
LYRM1	NM_020424	-1	-1	-1	-1	X	X		X				X	X	
MAFG	NM_002359	-1	1	-1	-1			X		X	X	X		X	
MAGIX	NM_024859	0	-1	1	0	X			X		X	X		X	
MAP3K12	NM_006301	0	-1	0	0					X	X	X	X	X	
MAPK3	NM_002746	-1	-1	-1	0		X	X		X			X	X	
MBNL2	NM_144778	-1	0	-1	0		X		X	X	X		X		
MCPH1	NM_024596	-1	-1	-1	-1				X	X	X	X		X	
MDK	NM_001012334	-1	0	-1	0	X	X				X		X	X	
MEGF8	NM_001410	-1	0	-1	0	X	X			X		X	X		
MGST1	NM_145791	-1	-1	1	0		X			X	X		X	X	
MID1IP1	NM_021242	-1	0	-1	0	X	X					X	X	X	
MOCOS	NM_017947	-1	0	0	0	X			X	X	X	X			
MPP1	NM_002436	-1	0	1	-1					X	X	X	X	X	
MPPE1	NM_023075	-1	-1	1	0		X			X	X	X	X		
MREG	NM_018000	1	0	-1	1			X		X	X	X	X		
MREG	NM_018000	1	0	-1	1			X		X	X	X	X		
MSN	NM_002444	-1	1	-1	-1	X	X		X				X	X	
MTSS1	NM_014751	-1	-1	1	-1	X			X	X	X	X			
NAGPA	NM_016256	0	-1	-1	-1		X			X	X	X		X	
NAP1L3	NM_004538	0	-1	1	-1	X	X			X		X	X		
NEK6	NM_014397	1	0	-1	1	X	X		X	X				X	
NFATC4	NM_004554	-1	0	-1	1	X		X	X		X	X			
NFE2L3	NM_004289	1	1	-1	1				X	X	X	X		X	
NHS	NM_198270	0	-1	0	0				X	X	X	X		X	
NICN1	NM_032316	-1	0	-1	-1			X		X	X	X		X	
NOG	NM_005450	1	0	-1	1		X				X	X	X	X	
NOM1	NM_138400	1	0	-1	0		X		X	X			X	X	

NT5DC1	NM_152729	-1	-1	0	0				X	X	X	X			X
NUAK2	NM_030952	1	0	-1	1	X			X	X		X	X		
ODF2L	NM_020729	-1	0	0	0	X				X	X	X			X
ODZ3	NM_001080477	-1	0	0	1	X	X		X	X	X				
OSMR	NM_003999	0	0	-1	1	X			X	X		X		X	
OTUD5	NM_017602	0	0	-1	1			X		X	X	X		X	
PARVA	NM_018222	0	1	-1	0	X	X			X		X	X		
PCDH1	NM_002587	0	-1	-1	-1	X	X	X					X	X	
PDE1A	NM_001003683	-1	1	-1	1	X				X	X	X		X	
PDE1A	AL110263	-1	0	-1	1	X				X	X	X		X	
PDLIM2	NM_021630	0	0	-1	0	X	X			X		X	X		
PFN2	NM_053024	-1	0	-1	1		X	X			X		X	X	
PHC1	NM_004426	-1	-1	-1	0				X	X	X	X	X		
PIGH	NM_004569	-1	1	1	0		X	X			X		X		X
PISD	NM_014338	-1	-1	-1	1			X	X	X		X		X	
PLA1A	NM_015900	-1	-1	-1	-1			X	X	X	X	X			
PLAC8	NM_016619	0	0	-1	1		X			X	X		X	X	
PLXND1	NM_015103	1	1	-1	0	X	X				X		X	X	
PNPO	NM_018129	-1	-1	-1	-1	X			X		X		X	X	
POLR3E	AB040885	-1	-1	0	0	X	X				X		X	X	
POMGNT1	NM_017739	-1	-1	-1	0	X					X	X	X		X
POU5F1	NM_002701	1	-1	0	1	X		X		X	X	X			
POU5F1	NM_002701	1	-1	0	1	X		X		X	X	X			
POU6F1	NM_002702	-1	0	0	0	X		X	X	X		X			
PRMT2	NM_206962	-1	0	-1	0	X		X		X	X				X
PROM2	NM_144707	-1	-1	-1	0	X		X	X				X	X	
PSIP1	NM_033222	-1	1	0	-1		X		X	X	X		X		
PSIP1	NM_021144	-1	0	0	-1		X		X	X	X		X		
PURG	NM_001015508	-1	1	0	0				X	X	X		X		X
PVRL2	NM_002856	0	0	-1	1	X	X		X				X	X	
PVRL2	NM_001042724	0	0	-1	0	X	X		X				X	X	
RAB43	NM_198490	-1	0	-1	-1	X		X			X		X	X	
RAB5B	X54871	-1	-1	0	-1	X		X			X	X	X		
RAB7L1	NM_003929	1	0	-1	-1	X		X	X	X		X			
RABGAP1	AK022408	-1	0	0	1		X	X			X	X	X		
RALA	NM_005402	-1	0	1	-1	X			X	X	X			X	
RALGPS2	NM_018037	0	-1	1	-1	X			X	X	X	X			
RBKS	NM_022128	0	-1	-1	-1	X	X			X		X	X		
RERE	NM_012102	0	-1	-1	0	X		X		X	X	X			
RFNG	NM_002917	-1	0	-1	-1	X	X			X			X	X	
RFTN2	NM_144629	-1	1	-1	1		X		X	X		X	X		
RHBDF1	NM_022450	-1	1	-1	1	X		X		X		X	X		
RNF175	NM_173662	-1	0	0	0		X	X		X	X		X		
RNF185	NM_152267	-1	-1	0	-1		X	X		X			X	X	
RNF32	NM_030936	-1	-1	0	-1	X		X		X	X	X			
RPL22	NM_000983	0	-1	-1	0	X	X			X			X	X	
SEC14L2	NM_012429	0	0	-1	0	X		X		X	X		X		
SEMA4B	NM_020210	1	-1	-1	0	X		X	X			X	X		
SEN2	NM_021627	-1	0	1	1		X	X		X	X		X		
SEN2	NM_020654	-1	0	0	0		X		X		X	X	X		
SEPHS2	NM_012248	-1	1	1	-1		X			X	X	X	X		
SFXN2	NM_178858	0	-1	0	1	X			X	X	X	X			
SH3BP4	NM_014521	1	1	-1	-1	X		X		X	X			X	
SIRT5	NM_012241	-1	0	-1	-1		X		X	X		X	X		
SIRT5	NM_031244	-1	0	-1	0		X		X	X		X	X		
SKI	NM_003036	1	0	-1	1	X		X		X	X			X	
SLC19A1	NM_194255	1	0	-1	-1				X	X	X	X		X	
SLC20A1	NM_005415	1	1	-1	-1	X	X					X	X		X
SLC25A20	NM_000387	-1	-1	0	-1	X	X			X		X	X		
SLC25A43	NM_145305	-1	-1	-1	0	X			X	X	X	X			
SLC36A1	NM_078483	-1	0	0	-1	X		X		X	X	X			
SLC37A1	NM_018964	1	-1	0	0	X	X					X	X	X	
SLC39A11	NM_139177	-1	0	-1	0			X		X	X	X	X		
SLC40A1	NM_014585	-1	-1	1	0	X	X			X			X	X	
SLC44A2	NM_020428	0	1	-1	1	X		X		X			X	X	
SLC6A19	AK096054	1	1	-1	-1	X		X	X			X		X	

SLC7A8	NM_182728	0	-1	1	0	X				X	X		X	X	
SLC9A8	NM_015266	-1	0	0	0	X		X	X	X	X				
SLCO3A1	XM_001132480	1	-1	-1	-1	X			X	X		X		X	
SLCO3A1	NM_013272	0	-1	-1	0	X			X	X		X		X	
SMAD3	U68019	1	0	-1	0			X		X	X	X		X	
SMAD3	NM_005902	0	-1	-1	0			X		X	X	X		X	
SMARCA2	NM_139045	-1	-1	0	0					X	X	X	X	X	
SORBS3	NM_005775	-1	-1	-1	0	X		X			X			X	X
SPARC	NM_003118	-1	1	0	0	X				X		X	X	X	
SPOCK1	NM_004598	1	-1	-1	1	X			X	X	X		X		
SPRED2	NM_181784	1	1	-1	0			X		X	X	X		X	
SPTBN4	NM_020971	-1	-1	1	0	X		X	X			X		X	
SSH3	NM_017857	0	-1	-1	0	X		X	X	X	X				
ST6GAL1	NM_173216	1	0	-1	-1			X		X	X	X	X		
STAMBPL1	NM_020799	-1	0	-1	-1		X			X	X		X	X	
STMN1	NM_203401	-1	1	0	1		X			X	X	X	X		
STMN3	NM_015894	-1	0	-1	1	X	X	X			X	X			
STRA6	NM_022369	0	1	-1	0	X	X	X				X	X		
STX12	NM_177424	-1	-1	0	0				X	X	X	X			X
STXBP1	NM_003165	0	0	-1	-1		X			X		X	X	X	
SUPT4H1	NM_003168	-1	1	0	0		X	X		X		X	X		
SYNGR2	NM_004710	1	0	-1	0				X	X	X	X		X	
SYNJ2	NM_003898	1	0	-1	0	X				X	X	X		X	
TAOK2	NM_004783	-1	1	-1	0	X	X			X		X	X		
TATDN3	NM_001042552	-1	-1	0	-1				X	X	X	X		X	
TBC1D9	NM_015130	1	-1	1	-1		X			X	X	X	X		
TCF7L1	NM_031283	-1	-1	-1	0		X			X	X		X	X	
TES	NM_152829	-1	0	0	-1			X	X	X	X			X	
TFE3	NM_006521	-1	0	-1	0	X				X		X	X	X	
TGFBR3	NM_003243	1	1	-1	0		X		X	X	X		X		
THBS2	L12350	0	-1	-1	0	X	X			X	X		X		
THRA	NM_003250	-1	0	0	1			X	X	X		X		X	
THRA	NM_199334	-1	-1	0	0			X	X	X		X		X	
TMC6	NM_007267	1	0	-1	0	X	X				X	X	X		
TMCC1	NM_001017395	-1	1	-1	-1	X				X	X	X		X	
TMCO1	NM_019026	-1	0	0	0	X	X		X	X			X		
TMEM106A	NM_145041	-1	-1	-1	0	X				X	X	X	X	X	
TMEM159	NM_020422	-1	-1	-1	0	X	X			X	X			X	
TMEM182	NM_144632	-1	-1	1	-1				X	X	X	X			X
TMTC4	NM_032813	0	0	-1	0		X			X	X		X	X	
TNFRSF10B	NM_003842	0	0	-1	0	X	X				X		X	X	
TOMM20	NM_014765	-1	-1	-1	0		X			X	X	X	X		
TPCN1	NM_017901	0	0	-1	-1	X		X		X		X		X	
TPCN1	AB032995	0	0	-1	-1	X		X		X		X		X	
TPP1	NM_000391	-1	-1	-1	0	X		X		X	X	X			
TRIB2	NM_021643	0	1	-1	0		X	X			X	X	X		
TRIM26	NM_003449	-1	0	1	1		X			X		X	X	X	
TRIM37	NM_001005207	-1	0	0	0	X			X	X	X	X			
TRIM44	NM_017583	-1	0	-1	0		X			X	X	X	X		
TRIM46	NM_025058	1	-1	0	1	X		X		X	X			X	
TRIM46	BC069416	0	-1	-1	-1	X		X		X	X			X	
TTL1	NM_001008572	-1	0	-1	-1			X		X		X		X	X
TYSND1	NM_173555	1	0	-1	0	X			X	X	X	X			
UBE2Q2	NM_173469	0	-1	0	1	X				X	X	X		X	
UBE3B	NM_183415	-1	-1	-1	-1	X		X	X	X		X			
UNG	NM_003362	0	-1	-1	0		X		X		X		X	X	
USP30	AL834278	-1	0	-1	0	X				X	X	X	X		
USP30	NM_032663	-1	0	1	0	X				X	X	X	X		
USP40	NM_018218	-1	0	-1	-1	X	X	X		X		X			
VAV3	NM_006113	1	-1	1	0			X		X	X	X	X		
WARS2	NM_201263	0	-1	-1	-1	X			X	X	X	X			
WDFY2	NM_052950	1	-1	-1	-1		X	X	X	X		X			
WDR5B	NM_019069	-1	-1	1	0		X			X	X	X		X	
WWC3	NM_015691	-1	-1	1	0	X			X	X		X		X	
WWTR1	NM_015472	0	1	-1	1			X		X	X	X		X	
WWTR1	AL050107	-1	0	-1	1			X		X	X	X		X	

WWTR1	NM_015472	0	1	-1	1			X		X	X	X		X	
XYLB	NM_005108	0	-1	-1	0			X	X	X	X	X			
ZAK	NM_133646	-1	-1	0	0			X			X	X	X	X	
ZBTB22	NM_005453	0	0	-1	0			X	X		X	X	X		
ZMAT1	NM_032441	-1	0	0	-1	X			X	X		X			X
ZNF346	NM_012279	-1	0	0	0		X	X				X	X		X
ZNF395	NM_018660	0	0	-1	-1		X	X			X		X	X	
ZNF512	NM_032434	1	0	-1	0			X		X	X	X	X	X	
ZNF711	NM_021998	-1	1	1	0		X		X	X			X	X	
ZNRF1	NM_032268	0	0	-1	0	X		X	X	X		X			
ABL1	NM_005157	-1	0	-1	0			X	X	X	X				
ACTG2	NM_001615	1	-1	0	0	X		X					X	X	
ADARB2	NM_018702	-1	0	-1	1			X				X	X	X	
ADK	NM_001123	0	-1	1	-1	X			X	X				X	
ADPRH	NM_001125	1	0	-1	0			X			X	X		X	
ADRA1D	NM_000678	-1	-1	-1	-1	X	X				X		X		
AGRN	NM_198576	1	0	-1	1	X				X		X		X	
AGRN	NM_198576	1	0	-1	1	X				X		X		X	
ANAPC7	NM_016238	0	-1	-1	1	X		X					X	X	
AP2A2	NM_012305	0	0	-1	0		X		X		X		X		
AP4S1	NM_007077	0	0	-1	0	X			X	X		X			
APP	NM_000484	-1	0	-1	0				X	X	X	X			
ARAF	NM_001654	-1	-1	-1	0	X			X		X				X
ARF6	NM_001663	1	1	-1	1	X			X	X	X				
ATP6V1B1	NM_001692	-1	-1	1	0	X		X				X		X	
B4GALT2	NM_003780	0	0	-1	0			X		X	X	X			
B4GALT2	BC002431	0	0	-1	0			X		X	X	X			
BATF2	NM_138456	1	0	0	-1	X			X				X	X	
BBS1	NM_024649	-1	0	-1	0		X	X			X		X		
BDH2	NM_020139	-1	0	1	1		X			X		X	X		
BEST1	NM_004183	-1	1	1	0	X			X		X	X			
BOC	NM_033254	0	-1	0	-1	X		X		X		X			
C10orf76	NM_024541	0	0	-1	-1				X		X	X		X	
C11orf49	NM_001003676	-1	0	-1	0	X		X			X			X	
C12orf36	NM_182558	-1	-1	-1	-1	X		X	X		X				
C1orf145	BC027909	-1	0	-1	0			X	X	X	X				
C1QTNF1	NM_198594	0	-1	-1	1			X		X		X		X	
C5	NM_001735	0	0	-1	0							X	X	X	X
C5orf38	NM_178569	-1	-1	-1	-1			X		X		X		X	
C8orf44	NM_019607	-1	0	0	-1	X				X		X	X		
CADPS	NM_183393	-1	-1	0	0	X			X	X	X				
CALCOCO1	NM_020898	-1	-1	1	0	X			X		X		X		
CAND2	NM_012298	0	1	-1	1	X		X			X			X	
CANT1	NM_138793	-1	0	-1	-1		X	X	X					X	
CASP1	NM_033292	1	-1	0	1			X		X				X	X
CCDC120	NM_033626	0	-1	-1	-1			X	X	X				X	
CCDC121	NM_024584	-1	-1	1	0	X				X	X	X			
CCDC69	NM_015621	-1	-1	1	0	X		X					X		X
CD151	NM_004357	0	0	-1	0	X		X				X		X	
CDKL3	NM_016508	-1	0	-1	-1				X	X		X		X	
CEP164	NM_014956	-1	0	-1	0	X		X		X				X	
CEP290	NM_025114	-1	-1	0	-1		X		X	X			X		
CKMT1B	AK094322	0	-1	1	1			X		X	X	X			
CLEC2D	NM_001004419	-1	-1	0	0				X	X		X		X	
CMTM7	NM_138410	0	1	-1	0	X					X	X		X	
CNNM2	NM_017649	1	-1	0	1			X	X	X	X				
COL4A5	NM_033380	-1	0	-1	0			X	X	X					X
COPZ2	NM_016429	-1	0	0	-1	X	X				X		X		
CREG1	NM_003851	0	-1	1	1					X	X	X			X
CTNNBIP1	NM_020248	-1	0	-1	0				X	X	X			X	
CTSD	NM_001909	-1	-1	-1	-1				X			X	X	X	
CYB5R1	NM_016243	-1	0	0	0			X		X			X	X	
CYFIP2	NM_001037332	0	-1	1	0			X		X	X		X		
DENND1A	NM_020946	0	0	-1	0		X				X	X	X		
DEPDC4	AK090824	-1	0	0	-1		X			X		X	X		
DHRS4	NM_021004	-1	0	-1	0			X		X	X		X		

DIAPH3	NM_030932	-1	1	1	1					X	X	X		X	
DLGAP4	NM_014902	-1	0	0	-1					X	X	X	X		
DTWD2	NM_173666	-1	-1	1	-1				X	X	X			X	
DTX3L	NM_138287	0	0	-1	-1				X	X	X	X			
DUSP18	NM_152511	-1	1	1	-1	X		X		X				X	
DVL3	NM_004423	-1	0	-1	0			X	X					X	X
DYM	NM_017653	-1	-1	1	-1	X		X					X		X
EEF2K	NM_013302	0	-1	-1	1	X				X	X	X			
EFHA2	NM_181723	-1	-1	-1	-1		X		X	X	X				
EFHD2	NM_024329	1	1	-1	0	X		X			X			X	
EHD2	NM_014601	1	1	-1	-1						X		X	X	X
EMP1	NM_001423	1	1	-1	-1				X				X	X	X
EPDR1	NM_017549	-1	0	-1	1		X			X			X	X	
ERAL1	NM_005702	0	0	-1	0	X		X		X	X				
ERF	NM_006494	1	0	-1	1	X		X					X		X
F8	NM_019863	-1	-1	0	1	X				X	X				X
FAM107A	NM_007177	-1	-1	1	0		X				X			X	X
FAM82B	NM_016033	-1	-1	0	-1	X			X	X	X				
FBXL14	NM_152441	-1	-1	-1	-1			X			X	X		X	
FBXO44	NM_001014765	0	-1	-1	0				X	X	X				X
FCF1	NM_015962	-1	0	-1	-1	X			X				X	X	
FGD3	NM_033086	-1	-1	-1	0			X			X			X	X
FGFR1	NM_023111	-1	-1	0	1	X	X				X	X			
FGFR1	NM_023110	-1	-1	0	1	X	X				X	X			
FGFR1	AK024388	-1	-1	0	-1	X	X				X	X			
FIGF	NM_004469	-1	-1	0	-1		X	X	X					X	
FLOT1	NM_005803	-1	0	-1	-1	X	X							X	X
FRAT1	NM_005479	1	-1	1	1	X	X			X					X
FUCA2	NM_032020	-1	-1	-1	0		X			X			X	X	
G6PC2	NM_021176	-1	-1	-1	-1	X		X		X			X		
GABARAPL1	NM_031412	0	1	-1	1	X				X				X	X
GABRP	NM_014211	0	-1	-1	-1			X	X	X	X				
GALC	NM_000153	-1	0	-1	1	X			X	X			X		
GARNL3	NM_032293	-1	0	-1	0	X						X	X	X	
GATA5	NM_080473	-1	0	-1	-1			X		X			X		X
GNAO1	NM_138736	0	0	-1	-1			X	X				X		X
GNB1	NM_002074	-1	0	-1	0		X			X			X	X	
GPR108	NM_020171	-1	-1	0	-1	X		X	X			X			
GPR132	NM_013345	0	0	-1	0			X	X				X	X	
GPR137B	NM_003272	1	-1	0	-1					X	X	X			X
GSTM3	NM_000849	0	-1	1	0		X		X	X				X	
GSTO2	NM_183239	-1	0	-1	1	X			X	X					X
GUCY1A2	NM_000855	1	1	-1	1				X	X	X	X			
HDAC11	NM_024827	-1	-1	0	0	X				X	X				X
HDDC2	NM_016063	-1	-1	0	-1	X		X	X	X					
HPS1	NM_000195	-1	-1	-1	-1			X		X				X	X
HRH1	NM_000861	0	-1	-1	-1	X				X	X	X			
IDH1	NM_005896	-1	-1	1	0		X		X					X	X
IER3IP1	NM_016097	-1	-1	1	0		X		X	X				X	
IL17D	NM_138284	0	-1	1	-1	X	X					X		X	
IL7	NM_000880	1	0	0	-1	X				X			X		X
INPP5B	NM_005540	-1	-1	0	0		X	X					X	X	
IQCE	AB028946	0	-1	-1	0	X	X						X		X
IQCK	NM_153208	-1	0	0	-1				X	X	X	X			
IRAK2	NM_001570	0	1	-1	0			X	X	X					X
IRS2	NM_003749	0	-1	0	0			X		X			X		X
ISYNA1	NM_016368	0	0	-1	1	X					X	X			X
ITGA3	NM_002204	0	-1	-1	-1	X		X		X			X		
ITGB2	NM_000211	1	0	-1	1			X	X	X				X	
KAZALD1	NM_030929	0	-1	-1	0			X		X			X	X	
KLHDC7B	NM_138433	-1	0	-1	0		X			X	X			X	
KLHL13	NM_033495	0	-1	0	1			X	X	X					X
KLHL20	NM_014458	-1	0	1	-1					X			X	X	X
KLRG1	NM_005810	0	-1	0	0		X				X			X	X
KLRG2	BC110858	1	-1	0	0	X			X	X				X	
KREMEN1	NM_153379	-1	1	0	1			X		X	X	X			

LAMB1	NM_002291	0	-1	-1	0				X	X	X	X		
LDLRAD3	NM_174902	0	-1	-1	0			X			X	X	X	
LIMD2	NM_030576	-1	0	-1	0	X	X				X		X	
LITAF	NM_004862	-1	-1	-1	-1	X		X		X				X
LPIN2	NM_014646	-1	-1	1	0				X	X	X	X		
LRP5	NM_002335	0	0	-1	1			X				X	X	X
LRRC17	NM_005824	-1	-1	0	0				X	X	X			X
LRRC27	NM_030626	-1	0	-1	0			X		X	X	X		
LRRC37A3	NM_199340	-1	0	-1	0		X			X		X	X	
LRRC39	NM_144620	-1	0	0	0				X	X		X		X
LRRC46	NM_033413	-1	0	1	1				X	X	X		X	
LSS	NM_001001438	-1	1	-1	-1	X			X	X	X			
LTBP4	NM_003573	0	-1	-1	-1	X			X			X		X
LYSMD1	NM_212551	0	0	-1	-1	X			X			X		X
LZTS2	NM_032429	1	-1	-1	1		X			X	X		X	
M6PR	NM_002355	0	-1	0	0	X			X	X	X			
MACF1	NM_012090	-1	0	-1	0					X	X	X	X	
MBTD1	NM_017643	-1	0	0	0				X	X	X	X		
MCF2	NM_005369	-1	0	1	1	X				X	X			X
MCM2	NM_004526	0	1	-1	1		X					X	X	X
MESDC1	NM_022566	0	1	-1	0			X	X		X			X
MKNK2	NM_017572	-1	-1	-1	-1	X			X		X			X
MKS1	NM_017777	-1	0	-1	-1			X		X	X	X		
MKS1	AK000352	-1	0	-1	-1			X		X	X	X		
MLPH	NM_024101	0	-1	0	0	X				X		X	X	
MLX	NM_170607	-1	0	-1	0					X	X		X	X
MOV10L1	NM_018995	-1	1	1	-1			X	X	X			X	
MRPL43	NM_176794	-1	-1	0	-1	X	X					X	X	
MRPL43	NM_176792	-1	1	-1	0	X	X					X	X	
MRRF	NM_199177	0	-1	-1	0	X					X	X	X	
MRRF	NM_138777	0	-1	-1	0	X					X	X	X	
MTERFD2	NM_182501	-1	-1	1	-1			X		X	X	X		
MXRA7	NM_001008528	-1	1	-1	0	X		X	X		X			
MXRA7	NM_001008529	-1	0	-1	0	X		X	X		X			
MXRA7	NM_001008528	-1	1	-1	0	X		X	X		X			
MYD88	NM_002468	0	0	-1	0	X	X	X			X			
MYO7A	NM_000260	1	-1	-1	0			X	X				X	X
NDRG1	NM_006096	1	-1	0	-1				X	X	X	X		
NDRG2	NM_201535	-1	0	-1	0			X			X	X	X	
NEUROG1	NM_006161	-1	0	-1	-1		X			X	X		X	
NISCH	NM_007184	0	0	-1	0		X			X		X	X	
NPC1	NM_000271	1	0	1	-1					X	X	X		X
NPLOC4	AB040932	-1	1	0	-1				X	X	X			X
OSBP2	NM_030758	-1	-1	1	1	X			X	X			X	
OSBPL5	NM_020896	-1	0	-1	-1	X		X				X		X
PACS1	NM_018026	0	0	-1	1	X		X				X		X
PARD3	AF196185	-1	0	-1	0	X		X		X				X
PCBD2	NM_032151	-1	-1	0	-1		X		X	X			X	
PCBP4	NM_033010	0	0	-1	0			X			X	X		X
PFKFB2	NM_001018053	-1	1	1	-1				X		X	X	X	
PFN4	NM_199346	-1	0	0	0					X		X		X
PGAM5	NM_138575	0	0	-1	1					X		X	X	X
PHF19	NM_015651	0	1	-1	0	X		X			X		X	
PHF2	NM_005392	-1	0	-1	0	X			X	X			X	
PI16	NM_153370	1	-1	0	1	X	X	X					X	
PIGZ	NM_025163	0	0	-1	-1	X				X	X	X		
PLAGL1	NM_006718	-1	0	1	-1				X	X	X	X		
PLAGL1	NM_006718	-1	0	1	-1				X	X	X	X		
PLEKHG5	NM_198681	1	-1	1	0		X					X		X
PNKD	NM_015488	-1	-1	-1	0	X	X						X	X
POMT2	NM_013382	0	0	-1	-1	X	X		X				X	
PPP1R3E	AK024489	0	-1	-1	0			X		X		X		X
PRKAR1A	NM_212472	-1	0	-1	0				X	X	X	X		
PRMT5	NM_006109	0	1	-1	0	X		X			X		X	
PRNP	NM_000311	0	0	-1	-1					X	X	X		X
PROSC	NM_007198	-1	-1	-1	-1	X			X	X				X

PSKH1	NM_006742	-1	0	-1	-1	X		X				X	X		
PTK2B	NM_173174	-1	-1	-1	0			X		X	X			X	
PTPN14	NM_005401	1	-1	-1	1						X	X	X	X	
PTPN18	NM_014369	0	-1	1	0	X			X			X		X	
PTPRH	NM_002842	-1	0	1	-1				X		X	X	X		
PTPRK	NM_002844	1	-1	0	-1		X			X	X		X		
R3HDM2	NM_014925	-1	0	0	-1	X		X		X	X				
RAB27A	NM_004580	-1	-1	-1	-1	X			X	X	X				
RBBP4	NM_005610	0	0	0	1		X				X		X		X
RBBP9	NM_006606	-1	-1	0	-1			X	X	X				X	
RBCK1	NM_031229	-1	-1	-1	-1	X	X		X					X	
RBM17	NM_032905	0	0	-1	0			X		X	X				X
RDH10	NM_172037	1	0	-1	0	X			X			X		X	
RECQL5	NM_004259	-1	0	-1	-1	X				X			X	X	
RER1	NM_007033	-1	0	-1	0	X	X		X			X			
RGS20	NM_170587	1	-1	0	-1		X		X	X			X		
RHOF	NM_019034	0	1	-1	-1	X				X		X		X	
RIN1	NM_004292	1	-1	-1	-1			X		X		X		X	
RNF14	NM_004290	-1	0	0	-1			X	X	X	X				
RPL31	BC070210	0	-1	-1	0		X			X			X		X
SAT2	NM_133491	-1	0	1	0		X	X		X			X		
SCLT1	NM_144643	-1	0	1	0				X	X	X	X			
SDK1	NM_152744	1	0	-1	0	X		X		X				X	
SEC24C	NM_004922	-1	-1	-1	0	X		X	X					X	
SEPT9	NM_006640	0	0	-1	0	X				X				X	X
SERTAD3	NM_203344	1	1	-1	1	X		X	X					X	
SGTB	NM_019072	-1	1	1	-1			X		X		X			X
SIAE	NM_170601	-1	-1	0	0				X	X		X		X	
SIX1	NM_005982	1	-1	0	0		X	X	X	X					
SKAP1	NM_003726	1	-1	1	0	X				X	X	X			
SLC12A7	NM_006598	0	0	-1	-1	X				X		X		X	
SLC13A3	NM_001011554	-1	0	1	1			X		X	X			X	
SLC16A2	NM_006517	-1	1	-1	1			X		X	X			X	
SLC1A3	NM_004172	-1	1	0	-1			X		X	X				X
SLC23A3	NM_144712	-1	-1	-1	-1	X			X			X	X		
SLC23A3	AK055730	-1	-1	-1	0	X			X			X	X		
SLC30A5	BX537394	-1	0	1	-1				X	X	X	X			
SLC35F3	NM_173508	1	-1	0	0	X			X	X		X			
SLC38A1	NM_030674	0	-1	0	-1				X	X	X	X			
SLC3A1	NM_000341	0	-1	0	-1	X				X	X			X	
SLC6A12	NM_003044	1	-1	1	-1	X		X			X		X		
SLIT2	NM_004787	-1	1	1	0			X		X	X	X			
SNX24	NM_014035	-1	0	1	-1		X			X		X	X		
SPDYA	NM_001008779	-1	1	1	0		X			X	X		X		
SPG11	NM_025137	-1	0	-1	-1		X			X	X		X		
SPOCD1	AK097227	-1	0	0	-1		X	X	X				X		
SSPN	NM_005086	-1	0	-1	0		X				X	X	X		
STAT3	NM_213662	0	1	-1	1	X			X	X		X			
STAT5B	NM_012448	-1	-1	0	0				X	X	X			X	
SUMF2	NM_015411	-1	-1	-1	-1				X	X		X		X	
SYNJ2BP	NM_018373	-1	1	1	0			X	X		X			X	
SYT17	NM_016524	0	-1	0	0	X				X			X		X
TAPBP	NM_003190	0	0	-1	-1					X	X	X		X	
TAPBP	NM_172209	0	0	-1	-1					X	X	X		X	
TBL2	NM_012453	0	0	-1	0						X	X	X	X	
TEF	NM_003216	0	0	-1	1	X		X			X			X	
TGIF2	NM_021809	0	0	-1	0			X	X		X	X			
TMBIM1	NM_022152	-1	-1	-1	-1	X		X		X		X			
TMEM104	AK000262	-1	0	0	-1	X		X				X		X	
TMEM105	NM_178520	-1	0	-1	-1			X				X	X	X	
TMEM143	NM_018273	-1	0	-1	0	X		X			X			X	
TMEM169	NM_138390	-1	-1	1	-1				X		X	X		X	
TMEM39A	NM_018266	-1	0	-1	-1	X				X	X	X			
TMEM39B	NM_018056	0	0	-1	0	X	X	X					X		
TNF	NM_000594	1	0	-1	-1	X				X	X	X			
TOM1L2	NM_001082968	-1	0	0	0					X		X		X	X

TOR2A	NM_130459	-1	-1	-1	1		X					X	X	X	
TRIM4	NM_033017	0	-1	-1	0	X					X			X	X
TRIM5	NM_033092	-1	0	-1	0		X			X				X	X
TRIM6	NM_001003818	1	-1	-1	1			X		X		X		X	
TRIM65	NM_173547	-1	0	-1	0		X			X		X	X		
TRIP10	NM_004240	0	0	-1	-1	X	X			X	X				
TRPM3	NM_001007471	-1	-1	-1	0	X			X	X				X	
TSEN34	NM_024075	0	1	-1	1	X			X	X		X			
TWIST1	NM_000474	1	-1	-1	1	X					X			X	X
UCP3	NM_003356	-1	1	1	0	X	X				X	X			
UHRF2	NM_152896	1	0	-1	0	X		X		X	X				
URM1	NM_030914	0	-1	-1	0	X		X		X	X				
USF2	NM_003367	-1	-1	-1	-1				X	X	X			X	
VPS26B	NM_052875	-1	-1	-1	0	X			X	X			X		
VTA1	NM_016485	-1	1	1	0				X	X		X			X
XBP1	NM_005080	-1	0	-1	0			X	X				X	X	
ZBTB47	NM_145166	-1	-1	-1	0	X					X	X	X		
ZFYVE9	NM_004799	0	-1	0	0		X			X	X		X		
ZNF17	AB075827	-1	-1	-1	0		X					X	X	X	
ZNF202	NM_003455	0	0	-1	-1		X		X		X		X		
ZNF233	NM_181756	-1	0	1	-1			X		X	X	X			
ZNF273	BC019234	-1	1	-1	1			X	X	X				X	
ZNF282	NM_003575	0	-1	-1	-1			X		X	X		X		
ZNF333	NM_032433	-1	0	-1	-1				X	X			X		X
ZNF469	AB058761	0	-1	-1	-1				X		X		X	X	
ZNF616	BC032805	-1	0	1	0		X	X			X		X		
ZNF649	NM_023074	1	1	-1	0	X				X		X	X		
ZSCAN22	NM_181846	-1	-1	-1	0	X			X		X			X	
ABHD14B	NM_032750	-1	-1	-1	0				X			X		X	
ABHD4	NM_022060	-1	-1	-1	-1	X		X						X	
ABTB1	NM_172027	0	0	-1	-1			X				X	X		
ACAD10	NM_025247	0	0	-1	0	X	X					X			
ACSS1	NM_032501	1	0	-1	-1			X		X	X				
ADAM21	NM_003813	0	-1	0	1		X				X		X		
ADI1	NM_018269	-1	-1	0	0	X				X				X	
AGA	NM_000027	-1	0	1	-1						X	X		X	
ALDH16A1	NM_153329	1	0	-1	1	X				X			X		
ALDH1L1	NM_012190	0	1	-1	0			X			X		X		
AMT	NM_000481	-1	-1	-1	-1	X				X			X		
ANK1	NM_020478	1	1	-1	1			X	X	X					
ANKAR	NM_144708	-1	-1	0	0				X	X	X				
ANKRD45	NM_198493	-1	0	1	0					X	X	X			
APOBEC3C	NM_014508	-1	0	-1	0			X				X		X	
ARHGAP23	XM_290799	-1	1	1	0				X				X	X	
ARHGAP27	NM_199282	-1	0	-1	0							X	X	X	
ARHGEF1	NM_199002	-1	-1	-1	0	X	X							X	
ARHGEF4	NM_032995	1	0	1	-1	X				X		X			
ARL2BP	NM_012106	-1	0	1	-1					X	X			X	
ARRDC1	NM_152285	0	-1	-1	0	X	X						X		
ASB13	NM_024701	0	-1	-1	-1					X		X	X		
ASB9	NM_024087	0	-1	-1	0				X	X					X
ASPHD1	NM_181718	1	-1	-1	1	X					X	X			
ATOH8	NM_032827	1	0	-1	1				X		X		X		
B3GNTL1	NM_001009905	-1	0	-1	-1							X	X	X	
BCAS3	NM_017679	-1	0	-1	0		X	X		X					
BCAT2	NM_001190	0	-1	-1	0						X			X	X
BCL7B	NM_138707	0	-1	-1	-1				X	X		X			
BTBD	NM_000060	-1	-1	-1	1	X		X						X	
BTNL2	NM_019602	-1	0	-1	-1			X		X		X			
C14orf149	NM_144581	-1	-1	-1	1		X	X		X					
C14orf159	NM_024952	0	0	-1	0	X				X			X		
C14orf45	NM_025057	-1	0	1	-1			X		X	X				
C15orf40	NM_144597	-1	0	0	0					X	X				X
C17orf53	NM_024032	1	1	-1	1			X	X				X		
C19orf12	NM_031448	-1	-1	-1	0	X				X				X	
C1orf88	NM_181643	-1	-1	1	1	X	X				X				

C1S	NM_001734	-1	1	1	0			X		X		X			
C20orf112	AK097804	1	1	-1	1			X		X					X
C20orf132	NM_213631	0	0	-1	1	X				X	X				
C20orf196	NM_152504	-1	0	-1	-1				X	X			X		
C22orf26	NM_018280	-1	-1	0	-1			X	X		X				
C3orf18	NM_016210	-1	-1	-1	-1		X		X					X	
C4orf36	NM_144645	-1	-1	-1	-1			X		X	X				
C7orf10	NM_024728	-1	1	-1	1	X	X			X					
C9orf123	NM_033428	-1	0	-1	-1		X	X		X					
CAMK2G	NM_172171	-1	-1	-1	0				X			X	X		
CATSPER2	NM_172095	-1	-1	0	-1				X	X		X			
CC2D1A	NM_017721	-1	-1	-1	0						X	X	X		
CCDC71	NM_022903	1	0	-1	1		X					X	X		
CCDC71	AK023691	-1	0	-1	0		X					X	X		
CCDC92	NM_025140	-1	0	-1	-1		X				X	X			
CDK10	NM_052987	-1	-1	-1	1			X		X			X		
CDRT4	NM_173622	-1	0	0	0			X	X	X					
CEACAM19	AK128234	-1	1	0	1					X	X			X	
CECR5	NM_033070	0	0	-1	0	X				X		X			
CHMP4C	NM_152284	-1	0	1	-1						X	X		X	
CHST3	NM_004273	0	-1	-1	0			X	X	X					
CHST4	NM_005769	0	-1	-1	0			X	X		X				
CIRBP	AK128423	-1	0	-1	-1	X	X						X		
CIRBP	NM_001280	-1	0	0	0	X	X						X		
CLDN15	NM_014343	-1	0	-1	0		X	X		X					
CMBL	NM_138809	-1	-1	-1	0	X			X					X	
CNDP2	NM_018235	0	-1	-1	-1		X			X			X		
CNIH3	NM_152495	1	0	-1	-1		X	X					X		
CNTNAP1	NM_003632	-1	0	-1	-1	X		X						X	
COMMD9	NM_014186	-1	-1	-1	0					X			X		X
COQ9	AK075438	-1	0	0	0	X				X		X			
CORO1B	NM_020441	-1	-1	-1	-1	X		X						X	
CPT1B	NM_152246	-1	-1	-1	-1		X	X					X		
CRHR1	NM_004382	0	-1	-1	0			X				X	X		
CTSK	NM_000396	-1	0	0	-1			X			X			X	
CTSS	NM_004079	0	-1	0	0				X	X		X			
CUEDC1	NM_017949	-1	0	-1	0	X			X			X			
CYB561	NM_001017916	-1	1	0	-1	X				X	X				
CYP20A1	NM_177538	-1	-1	-1	-1					X	X	X			
CYP2B6	NM_000767	0	-1	-1	-1			X				X		X	
CYP4V2	NM_207352	-1	-1	0	-1	X					X	X			
CYSLTR1	NM_006639	0	-1	-1	-1			X		X	X				
DAP	NM_004394	-1	1	0	0	X				X	X				
DCP1B	NM_152640	-1	0	-1	0				X	X	X				
DDR1	NM_013994	1	0	-1	1			X				X		X	
DECR1	NM_001359	-1	-1	-1	-1	X			X		X				
DHRX	NM_145177	0	1	-1	0					X		X		X	
DNAJC11	NM_018198	0	-1	-1	0				X	X		X			
DNAJC8	NM_014280	-1	0	0	-1			X			X			X	
DNASE2	NM_001375	0	-1	-1	-1	X						X	X		
DPH2	NM_001384	0	0	-1	-1	X		X				X			
DPP9	NM_139159	0	0	-1	-1			X	X			X			
DPYD	NM_000110	0	1	-1	0					X	X	X			
EFHD1	NM_025202	-1	-1	1	1			X	X			X			
ELF3	NM_004433	1	-1	0	0	X	X						X		
ELK1	NM_005229	-1	0	-1	-1			X	X				X		
EPS8L2	NM_022772	0	-1	-1	0					X			X	X	
ERCC2	NM_000400	-1	0	-1	0			X		X				X	
ERCC6	NM_000124	0	0	-1	1							X	X	X	
ERN1	NM_001433	-1	1	0	-1	X	X						X		
ETV6	NM_001987	1	0	-1	0				X	X				X	
FAM134C	NM_178126	-1	0	0	0	X				X				X	
FAM62B	NM_020728	1	-1	1	1	X	X				X				
FANCD2	NM_001018115	0	1	-1	-1				X	X			X		
FARS2	NM_006567	-1	0	-1	0					X	X	X			
FBXO17	NM_024907	-1	0	-1	-1	X				X	X				

FCRLA	NM_032738	-1	0	0	-1			X	X					X	
FEZ1	NM_005103	0	1	-1	0				X	X		X			
FGF11	NM_004112	0	-1	0	-1			X			X			X	
FKBP10	NM_021939	-1	-1	-1	0			X	X	X					
FTH1	NM_002032	-1	-1	-1	-1			X		X		X			
FUT10	NM_032664	0	-1	-1	0	X		X				X			
GCC1	NM_024523	-1	1	1	-1	X					X	X			
GHDC	NM_032484	-1	-1	-1	0	X					X	X			
GLB1	NM_000404	0	0	-1	0				X	X	X				
GLTP	NM_016433	-1	-1	0	-1			X		X	X				
GMPR2	NM_001002000	-1	0	-1	0	X			X				X		
GNL3L	NM_019067	-1	0	1	-1		X			X			X		
GPR160	NM_014373	1	-1	0	-1		X					X	X		
GPR3	NM_005281	0	-1	1	0	X		X	X						
GPRASP1	NM_014710	-1	1	-1	0	X				X	X				
GSTM4	NM_147148	-1	-1	1	0	X			X			X			
GSTM4	NM_147148	-1	-1	1	0	X			X			X			
H1FO	NM_005318	-1	0	0	1					X	X	X			
HAPLN3	NM_178232	1	-1	0	1						X		X		X
HEATR5B	NM_019024	0	-1	0	0					X	X				X
HEMK1	NM_016173	-1	-1	0	-1	X		X	X						
HERPUD1	NM_014685	-1	0	1	-1					X	X	X			
HIST1H4E	NM_003545	-1	0	-1	0				X	X		X			
HLA-DOA	NM_002119	1	-1	0	-1						X	X		X	
HLA-DRB1	NM_002124	0	-1	0	0			X		X		X			
HLA-DRB5	NM_002125	0	-1	1	0			X		X	X				
HOXA4	NM_002141	1	-1	0	1		X						X	X	
HSPG2	NM_005529	-1	-1	-1	0	X	X	X							
HTR7	NM_019859	1	0	0	-1				X	X				X	
IDH3B	NM_174855	-1	-1	-1	-1		X	X					X		
IFRD2	NM_006764	-1	-1	-1	-1	X						X	X		
IPP	NM_005897	-1	0	0	0				X	X		X			
IQCG	NM_032263	-1	0	1	0		X			X			X		
KATNAL2	NM_031303	-1	-1	0	-1			X			X			X	
KCNJ14	NM_170720	-1	0	-1	0						X	X	X		
KIAA0319L	NM_024874	-1	-1	-1	0		X					X	X		
KIAA1967	NM_021174	1	0	-1	1			X		X	X				
KIRREL2	NM_199180	-1	0	0	1	X					X	X			
KLHL5	NM_015990	-1	1	0	0	X		X				X			
KLHL5	NM_015990	-1	1	0	0	X		X				X			
KRT80	NM_182507	1	0	-1	-1					X	X		X		
L1CAM	NM_024003	1	-1	-1	1			X		X				X	
LAMP3	NM_014398	-1	1	0	-1				X	X	X				
LHPP	NM_022126	-1	0	-1	1	X			X					X	
LIMK1	NM_002314	0	0	-1	1	X							X	X	
LMAN2L	NM_030805	-1	0	0	0	X		X				X			
LRRC37A2	NM_001006607	-1	0	0	0		X					X	X		
LTB	NM_002341	1	1	-1	1		X			X			X		
LTB4R	NM_181657	-1	0	0	0		X				X		X		
LTBP3	NM_021070	0	-1	-1	0	X	X							X	
MAN2C1	NM_006715	-1	-1	0	1	X						X		X	
MAP1LC3C	NM_001004343	0	-1	1	1				X	X				X	
MAP2K5	NM_002757	-1	0	-1	0					X		X		X	
MAP3K5	NM_005923	1	0	-1	-1		X			X		X			
MAZ	NM_002383	-1	0	-1	0			X					X	X	
MEOX1	NM_004527	1	0	-1	-1			X		X				X	
MLLT11	NM_006818	-1	-1	1	0			X		X				X	
MMACHC	NM_015506	1	-1	-1	0			X					X	X	
MMP2	NM_004530	1	0	-1	1	X					X			X	
MRPL52	NM_181304	-1	0	-1	0					X	X		X		
MRPS27	NM_015084	0	-1	0	0	X						X	X		
MST1R	NM_002447	0	0	-1	0		X					X		X	
MTL5	NM_004923	-1	0	-1	-1			X			X	X			
MTL5	NM_001039656	-1	0	-1	0			X			X	X			
MXD3	NM_031300	-1	0	-1	1					X		X			X
MYADM	NM_001020818	0	-1	-1	-1	X		X			X				

NAPB	NM_022080	-1	0	1	-1				X	X	X				
NAT14	NM_020378	0	-1	-1	1					X		X		X	
NBL1	NM_182744	1	-1	0	1			X				X	X		
NCOA5	NM_020967	-1	-1	-1	-1			X		X			X		
NEK3	NM_002498	-1	-1	0	-1	X				X					X
NEURL2	NM_080749	-1	-1	-1	0					X	X	X			
NFX1	NM_002504	-1	-1	-1	1					X	X	X			
NIPSNAP3A	NM_015469	0	0	-1	0		X				X		X		
NKIRAS2	NM_001001349	-1	0	0	0							X		X	X
NLRP3	NM_004895	0	0	0	-1				X			X			X
NME4	NM_005009	0	-1	-1	0	X					X			X	
NME6	NM_005793	-1	0	-1	0			X		X	X				
NRM	NM_007243	-1	0	-1	1		X					X	X		
NSUN4	NM_199044	0	-1	-1	1	X							X		X
OAF	NM_178507	0	-1	-1	-1	X					X	X			
OBSL1	AK023854	-1	0	-1	1		X	X						X	
P2RX7	NM_002562	-1	1	1	0			X	X		X				
PAQR4	NM_152341	0	0	-1	0			X					X	X	
PAQR7	NM_178422	0	-1	-1	-1						X		X	X	
PARVB	NM_001003828	0	0	-1	-1	X				X				X	
PCDHA11	NM_018902	-1	0	0	-1	X				X	X				
PCDHB9	NM_019119	-1	1	0	0					X		X			X
PCK2	NM_004563	0	1	-1	-1						X	X	X		
PCK2	NM_004563	0	1	-1	-1						X	X	X		
PCNXL2	NM_024938	-1	-1	-1	-1	X							X	X	
PCNXL2	NM_014801	0	-1	1	-1	X							X	X	
PDK2	NM_002611	-1	0	0	1						X			X	X
PECR	NM_018441	-1	0	1	-1	X			X	X					
PES1	NM_014303	0	0	-1	0			X	X					X	
PGS1	CR749720	-1	0	-1	0		X					X	X		
PGS1	NM_024419	0	0	-1	0		X					X	X		
PIGC	NM_002642	0	0	-1	1					X	X	X			
PIGV	NM_017837	-1	0	-1	0	X				X					X
PLCD4	NM_032726	-1	-1	0	1			X			X		X		
PLGLB2	NM_002665	-1	0	0	0					X	X			X	
PLOD3	NM_001084	-1	-1	-1	0	X		X		X					
PLXNA1	NM_032242	1	-1	-1	1		X	X					X		
PLXNB2	AB002313	1	0	-1	1	X				X				X	
POPDC3	NM_022361	-1	1	1	-1		X		X				X		
PPAPDC1B	BC033025	-1	0	0	0	X	X						X		
PPAPDC3	NM_032728	-1	1	1	0		X						X	X	
PPIA	NM_021130	0	-1	-1	-1	X					X			X	
PPIC	NM_000943	-1	-1	0	0						X	X		X	
PPM1E	NM_014906	-1	1	1	-1					X	X				X
PPP1R3F	NM_033215	-1	0	-1	1					X	X	X			
PPP2R4	NM_178001	-1	0	-1	1	X					X	X			
PRDM11	AK097878	-1	0	-1	1	X		X						X	
PRKAG1	NM_212461	-1	-1	0	0	X				X		X			
PRSS16	NM_005865	-1	0	-1	0			X			X	X			
PSMB7	AK056654	0	0	-1	1			X		X	X				
PTPN13	NM_080685	-1	-1	1	0				X	X	X				
PTPRM	NM_002845	1	-1	0	1				X			X	X		
PXK	NM_017771	-1	-1	1	0					X	X	X			
PXK	AK131385	-1	-1	0	0					X	X	X			
PXMP2	NM_018663	-1	0	-1	1					X		X			X
QRSL1	NM_018292	0	-1	0	0				X	X		X			
RAI1	NM_030665	1	0	-1	0					X		X		X	
RALGDS	NM_006266	1	0	-1	1	X					X		X		
RASSF4	NM_032023	-1	-1	0	0			X		X					X
RBP1	NM_002899	0	-1	1	0			X		X				X	
RHOBTB2	NM_015178	0	0	-1	1				X	X	X				
RNASE4	NM_194430	-1	1	-1	0				X	X	X				
RNPEPL1	NM_018226	0	-1	-1	1	X		X				X			
RUSC2	NM_014806	0	-1	-1	0				X			X		X	
RYR1	NM_000540	0	1	-1	0	X		X				X			
SALL2	NM_005407	1	0	-1	1			X			X		X		

SAMD10	NM_080621	-1	-1	-1	-1			X				X		X	
SAMD13	NM_001010971	-1	0	0	0				X	X		X			
SAPS2	NM_014678	0	-1	-1	1	X	X		X						
SC5DL	NM_001024956	1	-1	1	0	X			X	X					
SC5DL	NM_006918	0	-1	1	0	X			X	X					
SCMH1	NM_012236	-1	0	-1	0			X			X			X	
SECTM1	NM_003004	0	-1	-1	1			X		X				X	
SELS	NM_203472	-1	0	0	-1	X		X		X					
SEPT14	NM_207366	-1	-1	1	0				X	X		X			
SH2D4A	NM_022071	0	0	-1	0	X				X	X				
SH3BGRL	NM_003022	-1	-1	0	0					X	X				X
SH3BP1	NM_018957	0	1	-1	0			X					X	X	
SLC16A3	NM_004207	1	0	-1	-1		X			X				X	
SLC25A23	NM_024103	0	-1	-1	0			X				X		X	
SLC25A26	NM_173471	-1	-1	-1	-1			X		X	X				
SLC31A2	NM_001860	1	1	0	-1	X				X	X				
SLC35F2	NM_017515	1	0	-1	0	X				X	X				
SLC44A3	NM_152369	-1	1	1	1				X			X	X		
SLC6A13	BC020867	-1	-1	0	0		X						X		X
SLC6A13	NM_016615	0	-1	0	0		X						X		X
SNX5	NM_014426	-1	0	0	-1		X				X	X			
SPAG7	NM_004890	-1	-1	0	0		X	X					X		
SPEG	AK055387	0	-1	0	0		X	X							X
ST3GAL2	AK127322	0	0	-1	0					X	X			X	
ST6GALNAC6	NM_013443	0	0	-1	-1			X	X		X				
STIM1	NM_003156	-1	-1	0	-1				X			X		X	
STK11	NM_000455	-1	0	-1	0			X					X	X	
STON1	NM_006873	-1	0	0	0					X		X	X		
STXBP5	NM_139244	0	-1	0	1		X			X			X		
SYT5	NM_003180	0	-1	0	0			X			X			X	
TACC2	NM_206862	0	-1	-1	0	X			X	X					
TAPBPL	NM_018009	0	-1	-1	0	X			X			X			
TBC1D22A	NM_014346	0	0	-1	-1	X			X		X				
TBX19	NM_005149	-1	0	-1	-1	X				X			X		
TCF25	NM_014972	-1	0	-1	1		X			X	X				
TCTA	NM_022171	-1	-1	1	1	X		X			X				
TEKT4	NM_144705	-1	-1	-1	1				X			X	X		
TFAP4	NM_003223	0	-1	-1	0	X		X						X	
TGFB3	NM_003239	-1	-1	0	1		X	X			X				
TGM7	NM_052955	0	-1	1	0		X				X		X		
THOC7	NM_025075	-1	-1	-1	-1					X		X			X
TLR1	NM_003263	0	0	-1	1					X	X	X			
TM9SF1	NM_006405	-1	0	-1	1			X				X		X	
TMCO3	NM_017905	0	1	-1	-1	X					X		X		
TMEM101	NM_032376	-1	1	-1	0	X			X	X					
TMEM109	NM_024092	0	0	-1	0	X			X		X				
TMEM155	NM_152399	0	-1	0	-1	X						X		X	
TMEM37	NM_183240	-1	0	-1	0			X			X		X		
TMEM51	NM_018022	0	1	-1	0	X	X						X		
TMEM86A	NM_153347	-1	-1	0	0				X	X	X				
TMIE	NM_147196	-1	-1	-1	-1	X							X	X	
TNFRSF1A	NM_001065	1	0	-1	0	X				X		X			
TOR3A	NM_022371	0	0	-1	0	X		X			X				
TP73	NM_005427	1	-1	-1	-1		X					X	X		
TRABD	NM_025204	1	-1	-1	0	X							X	X	
TRAF3IP2	NM_147686	-1	-1	-1	0	X			X		X				
TRAF7	NM_032271	0	-1	-1	1	X								X	X
TRIM8	NM_030912	0	0	-1	1			X	X			X			
TTYH3	NM_025250	0	0	-1	1							X	X	X	
UCRC	NM_001003684	0	0	-1	-1				X	X	X				
UNC5CL	NM_173561	-1	0	0	-1		X				X		X		
VASP	NM_003370	1	1	-1	0	X						X	X		
VAV2	NM_003371	1	1	-1	1			X		X		X			
VAV2	NM_003371	1	1	-1	1			X		X		X			
WNK4	NM_032387	-1	1	1	0	X		X					X		
WNK4	NM_032387	-1	1	1	0	X		X					X		

WSB2	NM_018639	-1	-1	-1	-1	X			X		X			
ZBTB20	NM_015642	-1	-1	-1	-1		X		X				X	
ZBTB20	BC010934	-1	-1	0	0		X		X				X	
ZC3H8	NM_032494	-1	-1	1	0		X	X					X	
ZDHH3	NM_016598	0	-1	0	-1						X	X		X
ZFAND3	NM_021943	-1	0	-1	-1	X				X		X		
ZFP14	NM_020917	-1	0	-1	0	X			X	X				
ZMYND12	NM_032257	-1	1	0	0			X			X			X
ZNF138	NM_006524	1	-1	-1	0				X	X		X		
ZNF219	NM_016423	0	0	-1	1	X				X				X
ZNF219	NM_016423	0	0	-1	1	X				X				X
ZNF396	AF533251	-1	0	1	-1				X	X				X
ZNF396	NM_145756	-1	0	1	-1				X	X				X
ZNF425	NM_001001661	0	0	-1	-1			X	X		X			
ZNF575	NM_174945	0	-1	-1	0			X	X	X				
ZNF581	NM_016535	0	-1	-1	0	X		X						X
ZNF586	NM_017652	-1	1	-1	-1	X				X				X
ZNF747	NM_023931	-1	0	-1	1					X	X			X
ZNF764	NM_033410	1	0	-1	0					X	X			X
ZNF83	NM_018300	-1	0	0	0			X	X			X		
ZNFX1	NM_021035	1	0	-1	1			X		X	X			
ZSWIM3	NM_080752	-1	1	0	0			X			X	X		
ABCA3	NM_001089	1	-1	-1	-1					X			X	
ABCA7	NM_019112	1	0	-1	1					X			X	
ABHD1	NM_032604	-1	-1	0	1			X				X		
ACRBP	NM_032489	-1	0	1	0	X	X							
ADA	NM_000022	0	0	-1	0						X			X
ADAMTS15	NM_213604	0	-1	-1	0							X		X
ADHFE1	NM_144650	-1	-1	0	0	X						X		
ADM	NM_001124	1	1	-1	1							X		X
ADORA2B	NM_000676	1	0	-1	-1			X		X				
ADPRHL1	NM_138430	-1	-1	-1	-1					X				X
ADPRHL1	NM_199162	-1	-1	-1	-1					X				X
ADRB1	NM_000684	1	0	-1	-1		X							X
AES	NM_198969	-1	0	-1	0	X			X					
AES	NM_198970	-1	0	-1	0	X			X					
AKT1	NM_005163	0	0	-1	1		X					X		
ANG	NM_001145	0	1	-1	1						X		X	
ANKRD22	NM_144590	0	-1	-1	-1					X				X
ANKRD23	NM_144994	-1	-1	1	-1						X	X		
ANKRD54	NM_138797	-1	0	0	0						X			X
ANPEP	NM_001150	0	-1	-1	1			X		X				
ANXA1	NM_000700	0	1	-1	0					X	X			
AP1M2	NM_005498	1	-1	-1	-1	X								X
APOBEC3B	NM_004900	0	1	-1	0			X	X					
ARHGAP25	NM_001007231	0	1	-1	1		X						X	
ARHGDIA	NM_004309	-1	0	-1	0	X					X			
ARHGDIB	NM_001175	1	-1	0	0			X						X
ARL6IP5	NM_006407	-1	-1	-1	-1					X				X
ARL8A	NM_138795	-1	0	-1	-1		X	X						
ASB6	NM_017873	-1	-1	0	-1						X			X
ATN1	NM_001007026	-1	-1	-1	1			X						X
ATP6V1G2	NM_130463	-1	0	1	0					X	X			
B3GALT6	NM_080605	0	-1	0	0							X	X	
B3GNT3	NM_014256	0	-1	-1	0			X	X					
BAG2	NM_004282	-1	0	0	1	X				X				
BBC3	NM_014417	0	0	-1	-1		X					X		
BNIP1	NM_013978	-1	-1	0	-1				X	X				
BRWD2	NM_018117	-1	-1	-1	-1				X		X			
BTBD2	NM_017797	-1	0	-1	0						X			X
C10orf107	NM_173554	0	1	-1	0				X	X				
C10orf30	BC031618	-1	0	0	0					X	X			
C11orf1	NM_022761	-1	-1	-1	-1			X	X					
C11orf17	NM_020642	-1	1	-1	-1	X				X				
C11orf63	NM_024806	-1	0	0	-1	X				X				
C11orf63	NM_199124	-1	0	0	-1	X				X				

C12orf60	NM_175874	0	-1	0	-1					X	X				
C16orf68	NM_024109	-1	0	-1	-1		X				X				
C1orf53	NM_001024594	-1	-1	-1	1	X				X					
C1orf83	NM_153035	-1	0	0	-1					X	X				
C1orf86	AF469129	-1	-1	-1	-1					X			X		
C21orf2	NM_004928	-1	0	-1	-1			X					X		
C21orf57	NM_058181	-1	-1	-1	-1		X			X					
C22orf32	NM_033318	-1	0	0	0			X			X				
C2orf55	NM_207362	1	-1	-1	1		X			X					
C5orf13	NM_004772	0	0	-1	1		X	X							
C5orf34	NM_198566	0	-1	0	1					X		X			
C6orf70	NM_018341	-1	0	-1	-1		X			X					
C7orf29	NM_138434	1	-1	0	0		X			X					
C8orf58	NM_001013842	1	1	-1	1			X		X					
C9orf125	NM_032342	-1	0	-1	-1		X			X					
C9orf5	NM_032012	0	0	-1	1				X		X				
C9orf5	NM_032012	0	0	-1	1				X		X				
CAPN1	NM_005186	-1	-1	-1	0	X								X	
CAPN3	NM_000070	-1	-1	0	0					X	X				
CAPS	NM_004058	-1	-1	0	1					X				X	
CCDC102B	NM_024781	-1	-1	0	0					X		X			
CCDC17	NM_152500	-1	1	-1	1						X	X			
CCDC28A	NM_015439	-1	0	1	-1	X		X							
CCDC76	NM_019083	-1	-1	1	-1		X	X							
CCND3	NM_001760	-1	0	0	1	X							X		
CDCA3	NM_031299	-1	1	-1	1					X	X				
CDH5	NM_001795	1	-1	-1	1			X			X				
CES3	NM_024922	-1	-1	1	1	X								X	
CFH	NM_000186	-1	0	-1	0				X			X			
CFH	NM_001014975	-1	0	-1	0				X			X			
CHST13	NM_152889	1	0	-1	0	X				X					
CIC	NM_015125	1	1	-1	1						X			X	
CIDEA	NM_198289	1	1	-1	1					X			X		
CLEC11A	NM_002975	1	-1	-1	1					X				X	
CLEC4A	NM_016184	-1	0	0	-1					X					X
CLN3	NM_000086	-1	-1	-1	-1	X		X							
COL23A1	NM_173465	0	-1	0	1						X			X	
COL4A6	BC005305	-1	0	1	1				X					X	
COL4A6	NM_033641	-1	1	0	0				X					X	
COLEC11	NM_199235	1	1	-1	1	X		X							
CREBL1	NM_004381	-1	0	0	1		X			X					
CROP	NM_016424	-1	0	0	0				X	X					
CRYAB	NM_001885	1	-1	-1	1	X						X			
CSNK1G2	NM_001319	-1	0	-1	-1	X					X				
CTXN1	NM_206833	1	0	-1	-1	X									X
Cxorf56	NM_022101	-1	-1	0	0						X			X	
CYB5R2	NM_016229	1	0	-1	0	X	X								
CYP27B1	NM_000785	-1	0	-1	1					X			X		
DCAKD	NM_024819	-1	0	-1	0	X							X		
DENND1C	NM_024898	1	-1	1	1		X	X							
DHRS12	NM_024705	-1	-1	-1	-1	X						X			
DHRS3	NM_004753	1	-1	-1	-1		X			X					
DHX34	D50924	-1	1	-1	-1								X	X	
DMRTA1	NM_022160	-1	1	1	-1	X									X
DNAJC4	NM_005528	-1	-1	-1	0						X	X			
DRAM	NM_018370	1	0	-1	-1	X				X					
DUSP7	NM_001947	0	0	-1	-1	X					X				
DZIP1L	NM_173543	0	1	-1	1				X	X					
E4F1	BC001713	-1	0	-1	0						X	X			
ECH1	BC014786	0	0	-1	0	X						X			
ECSIT	NM_016581	0	-1	-1	0			X						X	
EGFL7	NM_201446	1	0	-1	1					X				X	
ENO3	NM_001976	0	1	-1	1			X			X				
ENTPD6	NM_001247	0	0	-1	0		X	X							
EPHA2	NM_004431	1	0	-1	0	X			X						
EPHB4	NM_004444	0	0	-1	1	X					X				

EPOR	NM_000121	-1	0	-1	-1					X				X	
ERMAP	NM_001017922	-1	-1	-1	-1						X		X		
ETV4	NM_001986	-1	1	-1	1	X		X							
EXOC3	NM_007277	-1	-1	-1	0					X				X	
EXOSC2	NM_014285	0	1	-1	0	X		X							
EYA2	NM_172113	0	-1	1	0	X				X					
FAM117A	NM_030802	-1	-1	0	-1	X					X				
FAM127B	NM_001078172	-1	0	-1	-1	X			X						
FAM55C	NM_145037	-1	0	0	-1					X	X				
FAM98C	NM_174905	-1	0	-1	-1					X				X	
FBXO46	NM_001080469	0	0	-1	1								X	X	
FCER1G	NM_004106	-1	-1	-1	-1			X			X				
FCGRT	NM_004107	-1	0	-1	0	X		X							
FCN1	NM_002003	-1	-1	0	-1						X			X	
FHIT	NM_002012	0	-1	-1	-1			X		X					
FLJ14213	NM_024841	1	0	-1	1		X			X					
FMO4	NM_002022	-1	0	-1	-1					X	X				
FOSL1	NM_005438	0	0	-1	-1	X								X	
FOXL1	NM_005250	1	1	-1	0					X		X			
FOXL2	NM_023067	0	0	0	-1					X	X				
FPGT	NM_003838	-1	-1	1	0				X	X					
FUZ	NM_025129	-1	1	-1	1		X		X						
FUZ	NM_025129	-1	1	-1	1		X		X						
FZR1	NM_016263	-1	1	-1	0								X	X	
GALM	NM_138801	-1	1	1	-1					X		X			
GBE1	NM_000158	-1	0	-1	1						X		X		
GCHFR	NM_005258	-1	1	1	0		X						X		
GFER	NM_005262	0	-1	-1	0	X		X							
GGT1	NM_005265	1	1	-1	-1							X	X		
GIMAP2	NM_015660	0	-1	0	-1					X				X	
GLDC	NM_000170	1	-1	0	1		X					X			
GMPPA	NM_013335	-1	0	-1	-1								X	X	
GNPTAB	NM_024312	1	-1	1	1				X			X			
GOLT1A	NM_198447	0	0	-1	-1					X		X			
GORASP1	NM_031899	0	-1	-1	0			X		X					
GRAMD1A	NM_020895	0	0	-1	0					X				X	
GRID1	NM_017551	0	1	-1	0	X								X	
GRIPAP1	NM_020137	-1	0	-1	-1							X	X		
GUCA1B	NM_002098	-1	0	0	0	X			X						
HEBP2	NM_014320	-1	0	1	0	X					X				
HEXIM1	NM_006460	0	1	-1	0	X			X						
HEXIM2	NM_144608	-1	0	-1	1					X			X		
HEY2	NM_012259	1	-1	1	0					X				X	
HGD	NM_000187	1	-1	-1	0					X		X			
HHLA3	NM_007071	-1	0	-1	-1	X					X				
HIST1H2BD	BQ683489	0	0	-1	-1					X		X			
HLA-DMA	NM_006120	0	-1	1	1			X			X				
HM13	NM_178580	-1	-1	0	-1						X				X
HOXB2	NM_002145	1	-1	0	1					X	X				
HOXB4	NM_024015	1	-1	-1	0					X	X				
HOXB4	NM_024015	1	-1	-1	0					X	X				
HSD3B7	NM_025193	0	-1	-1	-1				X					X	
ICAM5	NM_003259	1	0	-1	1		X				X				
IFNGR2	NM_005534	1	0	-1	-1						X		X		
IFT20	NM_174887	-1	0	1	-1					X					X
IL15RA	NM_172200	1	-1	-1	-1	X					X				
IL27RA	NM_004843	1	-1	-1	1					X			X		
INPP1	NM_002194	0	-1	0	-1		X						X		
IQGAP3	NM_178229	-1	-1	-1	-1			X				X			
JARID1B	NM_006618	0	0	-1	0			X		X					
JUB	NM_032876	0	1	-1	0					X	X				
JUP	NM_002230	-1	0	0	0					X	X				
KCNIP3	NM_013434	0	-1	1	1		X							X	
KCNJ15	NM_170736	0	-1	0	1					X	X				
KDELR1	NM_006801	0	0	-1	1	X				X					
KHSRP	NM_003685	0	-1	-1	0					X		X			

KIAA0195	NM_014738	-1	0	-1	1			X						X	
KLHDC8B	NM_173546	-1	0	-1	0	X				X					
KLHL22	NM_032775	0	0	-1	-1		X						X		
KRT13	NM_002274	0	0	-1	-1						X			X	
KRT15	NM_002275	0	-1	-1	-1			X		X					
KRT85	NM_002283	-1	-1	-1	0	X						X			
KRTAP4-7	BX648343	-1	0	-1	-1				X			X			
KTELC1	NM_020231	-1	-1	-1	0	X				X					
LGALS3BP	NM_005567	0	-1	-1	0			X				X			
LGI4	NM_139284	0	1	-1	1			X				X			
LOC137886	NM_001077619	-1	0	0	-1			X		X					
LOC144097	NM_138471	0	0	-1	0	X	X								
LOC285908	NM_181722	-1	-1	1	1			X		X					
LRRC41	NM_006369	0	-1	-1	1			X				X			
LST1	NM_007161	-1	0	-1	1				X					X	
LY6G5C	NM_001002848	-1	-1	-1	0		X						X		
LYK5	NM_153335	-1	0	0	1		X	X							
MAGED2	NM_201222	-1	0	0	0				X				X		
MAL	NM_002371	1	-1	0	0	X				X					
MAN1B1	NM_016219	-1	0	-1	0			X						X	
MAN2A2	NM_006122	1	0	-1	-1				X				X		
MAP3K11	NM_002419	0	-1	-1	1	X					X				
MAP4K4	NM_145686	-1	0	0	0				X			X			
MAPK12	NM_002969	0	-1	-1	1					X		X			
MAPKAPK3	NM_004635	0	0	-1	-1	X			X						
MB	NM_203377	0	-1	-1	1			X				X			
MCEE	NM_032601	-1	-1	1	0				X	X					
ME3	NM_001014811	1	0	-1	-1				X				X		
ME3	NM_001014811	1	0	-1	-1				X				X		
MEX3A	AK125482	-1	0	0	0		X						X		
MEX3A	XM_044166	-1	0	0	0		X						X		
MGST2	NM_002413	-1	0	1	0				X				X		
MRC2	NM_006039	-1	1	-1	1			X				X			
MRPL45	NM_032351	-1	-1	0	-1						X		X		
MSL3L1	NM_078629	-1	-1	-1	-1		X			X					
MSRA	NM_012331	-1	-1	-1	-1	X					X				
MTA1	NM_004689	0	0	-1	-1						X		X		
MYL4	NM_002476	0	0	-1	1			X		X					
NCDN	NM_014284	-1	-1	0	0			X	X						
NFE2	NM_006163	1	-1	1	1			X					X		
NFKBIA	NM_020529	1	1	-1	0					X		X			
NFU1	NM_015700	-1	0	0	-1					X	X				
NGEF	NM_019850	-1	1	0	-1								X	X	
NME5	NM_003551	-1	0	1	-1					X		X			
NMI	NM_004688	0	-1	-1	-1					X		X			
NUP210	NM_024923	0	-1	-1	1	X		X							
OBSCN	NM_052843	-1	-1	0	0				X					X	
OCA2	NM_000275	-1	1	1	0		X						X		
OSGEP	NM_017807	-1	0	0	-1					X	X				
OSR1	NM_145260	-1	-1	-1	0					X	X				
OXA1L	NM_005015	0	-1	-1	0				X	X					
PAPSS1	NM_005443	1	-1	0	0	X						X			
PARP6	NM_020214	-1	0	-1	0			X					X		
PCDHB14	NM_018934	-1	1	-1	0					X	X				
PCGF1	NM_032673	1	1	-1	0	X					X				
PCGF2	NM_007144	0	0	-1	-1	X					X				
PDLIM7	NM_005451	-1	1	-1	0	X						X			
PGBD3	NM_170753	0	1	-1	0					X					X
PHLDB1	NM_015157	0	0	-1	-1	X					X				
PIK3R2	NM_005027	0	-1	-1	0		X							X	
PIM2	NM_006875	1	1	-1	0			X				X			
PITPNM1	NM_004910	0	0	-1	1					X					X
PLAU	NM_002658	1	1	-1	1					X	X				
PLAUR	NM_001005377	1	1	-1	0					X	X				
PLD3	NM_012268	-1	-1	0	0						X			X	
PLEKHA4	NM_020904	-1	-1	-1	0						X	X			

PMM1	NM_002676	-1	0	0	-1					X		X			
POPDC2	NM_022135	-1	0	0	-1				X			X			
PRKDC	NM_006904	0	-1	-1	0							X	X		
PRMT7	NM_019023	0	-1	-1	-1	X				X					
PSCA	NM_005672	-1	1	-1	0			X						X	
PTDSS2	NM_030783	0	0	-1	0			X					X		
PTPLA	NM_014241	-1	0	-1	0					X		X			
PTPN9	NM_002833	-1	0	-1	0	X		X							
PTPRF	NM_002840	1	0	-1	-1							X	X		
RAB11B	NM_004218	-1	0	-1	0		X				X				
RAB24	AF258583	-1	-1	1	0							X		X	
RAB32	NM_006834	-1	0	-1	-1			X				X			
RAB4B	NM_016154	-1	-1	-1	-1		X			X					
RAC2	NM_002872	0	-1	-1	0									X	X
RAD51L3	NM_133629	0	1	-1	0				X		X				
RAD51L3	NM_002878	0	1	-1	0				X		X				
RAGE	NM_014226	-1	1	1	-1		X		X						
RBM23	NM_018107	-1	0	-1	0			X				X			
REXO1	NM_020695	-1	-1	-1	1			X						X	
RGS9BP	NM_207391	1	-1	0	0			X			X				
RHBDL2	NM_017821	0	-1	1	0							X			X
RIN3	NM_024832	0	0	-1	-1					X				X	
RPH3AL	NM_006987	0	0	-1	0	X				X					
RTN4R	NM_023004	1	-1	1	-1				X					X	
RXRA	NM_002957	0	-1	-1	-1				X					X	
SAMD1	NM_138352	1	1	-1	1					X				X	
SBNO2	NM_014963	1	1	-1	0	X								X	
SCIN	NM_033128	-1	0	1	1					X		X			
SCLY	NM_016510	-1	-1	0	0						X			X	
SDCCAG8	NM_006642	-1	-1	0	-1					X		X			
SDSL	NM_138432	-1	-1	0	0					X	X				
SEMA4C	NM_017789	1	0	-1	0			X				X			
SEMA6B	NM_032108	1	1	-1	1		X							X	
SERINC2	NM_178865	-1	-1	0	0	X						X			
SERPINH1	NM_001235	-1	-1	-1	0						X	X			
SGCG	NM_000231	-1	0	1	-1				X		X				
SH3BGR	NM_007341	-1	0	0	-1			X		X					
SLC16A5	NM_004695	-1	1	-1	1	X				X					
SLC26A1	NM_134425	-1	0	-1	-1			X	X						
SLC29A1	NM_004955	0	-1	-1	1	X				X					
SLC35D2	NM_007001	-1	-1	0	-1								X	X	
SLC4A11	NM_032034	1	-1	0	0						X	X			
SLC7A3	NM_032803	-1	1	1	1					X		X			
SLC9A3R2	NM_004785	0	-1	-1	0				X					X	
SMAD6	NM_005585	0	1	-1	1			X						X	
SNRPN	NM_022807	-1	-1	-1	1						X			X	
SNUPN	NM_005701	0	0	-1	1							X		X	
SORCS2	NM_020777	0	-1	1	1				X					X	
SOX13	NM_005686	1	1	-1	-1						X				X
SPATA20	NM_022827	-1	-1	-1	0			X					X		
SPATA9	NM_031952	-1	0	-1	0					X	X				
SPR	NM_003124	1	-1	-1	1	X						X			
SPRR2D	NM_006945	-1	0	0	-1						X			X	
ST3GAL3	NM_174963	-1	0	-1	-1			X				X			
ST3GAL4	NM_006278	0	1	-1	-1		X				X				
ST6GALNAC2	NM_006456	1	1	-1	1							X	X		
ST6GALNAC2	BC038114	0	0	-1	-1							X	X		
ST7	NM_018412	-1	-1	0	0			X		X					
STRC	NM_153700	-1	-1	0	0			X				X			
SULT1A1	NM_177529	-1	-1	0	-1								X	X	
SVEP1	NM_153366	0	1	-1	1				X				X		
SYT15	NM_181519	-1	1	-1	-1				X				X		
SYT15	AK131036	-1	0	-1	0				X				X		
SYTL3	NM_001009991	0	-1	0	0					X				X	
TARSL2	NM_152334	-1	-1	1	0			X				X			
TBC1D19	NM_018317	-1	0	0	0							X		X	

TBX6	NM_080758	-1	-1	-1	-1								X	X	
TCEA2	NM_003195	-1	0	-1	0									X	X
TCF3	NM_003200	0	0	-1	0	X							X		
TEAD2	NM_003598	0	0	-1	1							X		X	
TGFB11	NM_015927	-1	-1	-1	1			X						X	
TGM1	NM_000359	-1	1	-1	0		X						X		
TIRAP	NM_148910	0	0	-1	0			X				X			
TMC07	AB051533	1	-1	-1	-1			X	X						
TMED4	AK074557	0	-1	-1	0				X	X					
TMEM140	NM_018295	-1	0	-1	-1					X	X				
TMEM156	NM_024943	-1	-1	0	-1			X	X						
TMEM17	NM_198276	-1	0	0	0						X	X			
TMEM80	NM_174940	0	0	-1	1	X							X		
TMEM9	NM_016456	-1	0	-1	1			X				X			
TMEM9B	NM_020644	-1	-1	-1	1							X		X	
TMUB2	NM_177441	-1	0	-1	0			X					X		
TMUB2	NM_024107	-1	0	-1	0			X					X		
TNFRSF11B	NM_002546	-1	0	0	1	X			X						
TNFSF10	NM_003810	0	1	-1	1				X	X					
TNIP1	NM_006058	0	-1	-1	0									X	X
TP53I11	AF010315	0	-1	-1	1			X					X		
TRAP1	NM_016292	0	-1	-1	0					X	X				
TRIM22	NM_006074	0	-1	-1	1	X		X							
TRIM34	NM_130390	-1	-1	0	-1					X		X			
TRPM2	NM_001001188	1	0	-1	1			X						X	
TSR2	NM_058163	-1	0	0	0						X		X		
TTC32	NM_001008237	0	-1	0	1						X				X
TTYH2	NM_032646	-1	0	0	0					X	X				
USP36	AK022913	-1	0	-1	0	X				X					
VAMP8	NM_003761	-1	-1	0	0	X		X							
VILL	NM_015873	0	-1	-1	0			X				X			
XPNPEP2	NM_003399	0	-1	-1	-1				X			X			
ZBTB41	NM_194314	-1	0	1	0						X	X			
ZDHHC18	NM_032283	0	0	-1	0						X		X		
ZFAND2A	NM_182491	-1	1	0	1	X				X					
ZNF133	NM_003434	-1	-1	-1	0		X						X		
ZNF146	NM_007145	-1	1	0	0				X	X					
ZNF179	NM_007148	-1	1	-1	-1				X	X					
ZNF193	NM_006299	-1	0	0	0	X				X					
ZNF222	NM_013360	-1	1	1	-1					X	X				
ZNF222	NM_013360	-1	1	1	-1					X	X				
ZNF323	NM_030899	-1	0	-1	0		X				X				
ZNF397	NM_032347	-1	0	1	-1					X			X		
ZNF414	NM_032370	0	0	-1	1	X				X					
ZNF419	NM_024691	-1	0	1	0	X								X	
ZNF452	NM_052923	-1	0	1	0				X		X				
ZNF500	AB011129	-1	0	-1	0	X		X							
ZYX	NM_003461	1	1	-1	1			X						X	
ABBA-1	NM_138383	1	0	-1	0				X						
ABHD14A	NM_015407	0	-1	-1	1					X					
ACCN2	NM_020039	0	-1	0	0						X				
ACOX3	NM_003501	0	0	-1	-1		X								
ACTA2	NM_001613	0	-1	-1	1	X									
ADFP	NM_001122	-1	1	-1	0						X				
ADORA1	NM_000674	0	-1	-1	-1			X							
AGXT2L2	NM_153373	-1	-1	0	-1					X					
ALKBH7	NM_032306	1	-1	-1	0						X				
AMY1C	NM_001008219	-1	-1	1	0					X					
ANKRD13B	NM_152345	0	0	-1	0									X	
AP1G2	NM_003917	-1	-1	-1	0	X									
AP3M2	NM_006803	-1	0	-1	0					X					
APOBEC3H	NM_181773	1	-1	-1	1				X						
APOL3	NM_145641	1	1	-1	0						X				
ARHGEF19	NM_153213	0	0	-1	-1								X		
ARL2	NM_001667	0	0	-1	0									X	
ARL3	NM_004311	-1	0	0	0					X					

ARPC1B	NM_005720	0	-1	-1	-1											X
ARPC4	NM_005718	1	0	-1	0										X	
ASS1	NM_054012	-1	0	-1	0				X							
AVEN	NM_020371	0	0	-1	-1						X					
AXIN1	NM_003502	1	0	-1	-1	X										
BCAR3	NM_003567	1	0	-1	0					X						
BCL7C	NM_004765	-1	-1	-1	-1								X			
BEX2	NM_032621	-1	0	1	-1	X										
BHLHB3	NM_030762	1	0	-1	-1					X						
BTBD14B	NM_052876	0	0	-1	-1	X										
C10orf10	NM_007021	-1	1	1	1								X			
C10orf104	NM_173473	-1	0	-1	-1					X						
C10orf38	NM_001010924	-1	0	-1	-1					X						
C11orf35	NM_173573	-1	0	-1	-1											X
C11orf74	NM_138787	-1	0	0	-1				X							
C12orf59	NM_153022	-1	0	-1	0					X						
C18orf17	BC032684	0	-1	0	1		X									
C18orf17	NM_153211	0	-1	0	1		X									
C19orf24	NM_017914	1	0	-1	-1									X		
C19orf25	NM_152482	0	1	-1	0										X	
C19orf61	NM_019108	-1	1	-1	-1					X						
C1orf162	NM_174896	-1	0	0	-1							X				
C21orf34	NM_001005732	-1	0	1	1					X						
C22orf25	CR627452	-1	0	-1	-1			X								
C2orf34	NM_024766	-1	-1	0	0				X							
C2orf52	NM_173513	-1	-1	0	-1							X				
C3	NM_000064	0	-1	-1	0							X				
C6orf134	NM_024909	-1	0	0	0					X						
C6orf151	NM_152551	-1	0	1	0							X				
C6orf65	NM_152731	-1	0	1	0					X						
C8orf13	NM_053279	0	-1	0	-1		X									
C8orf40	NM_138436	-1	0	-1	-1							X				
C9orf150	NM_203403	0	1	0	-1							X				
C9orf167	NM_017723	0	1	-1	-1					X						
C9orf86	NM_024718	0	-1	-1	-1					X						
CALR3	NM_145046	-1	0	-1	-1								X			
CAMSAP1L1	NM_203459	-1	0	1	1		X									
CBR3	NM_001236	1	-1	-1	1					X						
CCDC101	NM_138414	-1	-1	-1	-1										X	
CCDC22	NM_014008	1	-1	-1	-1	X										
CCDC46	NM_145036	-1	0	1	0			X								
CCDC53	NM_016053	-1	0	0	0										X	
CCDC78	NM_173476	1	-1	-1	1										X	
CD14	NM_000591	0	-1	0	0							X				
CD70	NM_001252	0	0	-1	1											X
CD99	NM_002414	-1	-1	-1	0				X							
CEBPE	NM_001805	-1	1	-1	-1								X			
CENTD2	NM_139181	0	0	-1	-1					X						
CEP110	NM_007018	-1	0	0	0					X						
CFHR1	NM_002113	-1	0	0	0								X			
COMT	NM_000754	-1	-1	-1	0							X				
COX15	NM_078470	0	-1	-1	1					X						
CRYL1	NM_015974	-1	1	0	-1									X		
CSPG5	NM_006574	1	-1	0	1								X			
CTBP1	NM_001012614	0	0	-1	-1	X										
CUEDC2	NM_024040	-1	0	-1	0					X						
CUL7	NM_014780	-1	0	-1	1								X			
CYBASC3	NM_153611	-1	0	-1	0			X								
CYP27A1	NM_000784	0	1	-1	-1	X										
DEAF1	NM_021008	0	-1	-1	-1	X										
DGCR6	NM_005675	-1	0	0	-1					X						
DGCR6L	NM_033257	-1	0	0	-1										X	
DHRS9	NM_005771	1	-1	0	1					X						
DHX37	NM_032656	1	0	-1	1			X								
DIRC1	NM_052952	0	-1	-1	0					X						
DISP1	NM_032890	-1	0	0	0							X				

DLEU1	NR_002605	-1	-1	0	-1	X									
DNAH7	NM_018897	-1	0	0	0					X					
DNAH7	NM_018897	-1	0	0	0					X					
DNAJC12	NM_021800	-1	-1	1	-1			X							
DNASE1	NM_005223	-1	-1	-1	0			X							
DOK7	NM_173660	1	1	-1	1	X									
DTX3	NM_178502	-1	-1	-1	1					X					
EEFSEC	NM_021937	-1	0	-1	0			X							
EGLN2	NM_080732	0	1	-1	-1								X		
EXDL2	NM_018199	-1	0	0	-1			X							
EXOD1	NM_080663	-1	0	-1	-1			X							
FAAH	NM_001441	-1	-1	0	0								X		
FAM119B	NM_206914	-1	-1	0	0	X									
FAM20C	NM_020223	0	-1	-1	1									X	
FAM33A	NM_182620	-1	0	0	0			X							
FAM44B	NM_138369	-1	0	-1	-1					X					
FBXO31	AK026130	-1	1	-1	0									X	
FCHO1	NM_015122	1	0	-1	0					X					
FGF21	NM_019113	-1	0	-1	-1					X					
FLJ11151	NM_018340	1	-1	0	0					X					
FLJ20699	NM_017931	-1	-1	-1	0			X							
FLJ22222	NM_024648	-1	0	0	-1	X									
FLJ37078	NM_001039212	0	1	-1	-1			X							
FOXD4	NM_207305	-1	0	0	0			X							
FXYS5	NM_144779	-1	0	-1	0	X									
GALNAC4S-6ST	NM_015892	0	-1	-1	-1					X					
GALT	NM_000155	-1	-1	0	0					X					
GEMIN7	NM_024707	0	-1	-1	0					X					
GHRL	NM_016362	-1	-1	0	-1		X								
GLT25D1	NM_024656	1	0	-1	0	X									
GLT8D2	NM_031302	-1	-1	0	0					X					
GLT8D4	NM_001080393	-1	-1	1	0		X								
GLTSCR2	NM_015710	0	-1	-1	0					X					
GMD5	NM_001500	-1	-1	0	1					X					
GPR161	NM_153832	0	1	-1	0		X								
GPR161	AK091271	-1	0	-1	-1		X								
GPR39	NM_001508	-1	-1	-1	-1					X					
GPRC5C	AK000249	-1	-1	-1	0					X					
GPT	NM_005309	1	-1	-1	0					X					
GPX1	NM_201397	1	-1	0	1							X			
GRIN3B	NM_138690	1	-1	0	0									X	
GRRP1	NM_024869	1	-1	0	0	X									
GRTP1	NM_024719	0	-1	-1	0					X					
GSTA4	NM_001512	-1	0	1	1				X						
GYTL1B	NM_152312	1	0	-1	0			X							
HDHD1A	NM_012080	0	-1	-1	-1			X							
HEL308	NM_133636	-1	0	1	0					X					
HESX1	NM_003865	-1	1	0	0					X					
HEXA	BC034424	-1	0	-1	-1			X							
HEXA	NM_000520	-1	0	-1	-1			X							
HEXDC	NM_173620	-1	0	-1	-1									X	
HIRIP3	NM_003609	-1	0	-1	1							X			
HMOX1	NM_002133	0	0	0	-1							X			
HNRPA3	NM_194247	-1	1	0	0					X					
HOXC10	NM_017409	-1	0	0	0					X					
HRC	NM_002152	-1	1	-1	-1							X			
HSD11B1L	NM_198706	0	1	-1	1									X	
HSD17B1	BC033110	1	-1	-1	0			X							
HSD17B8	NM_014234	-1	0	-1	-1			X							
HSPA1L	NM_005527	0	0	-1	0				X						
ID1	NM_002165	0	0	-1	0					X					
IHPK2	NM_016291	-1	1	-1	1			X							
IL4R	NM_000418	1	0	-1	0					X					
IMMP2L	NM_032549	-1	0	-1	-1						X				
INPP5E	NM_019892	0	1	-1	1					X					
INPL1	NM_001567	-1	0	-1	1				X						

IRF5	NM_002200	0	-1	-1	-1									X	
IRX3	NM_024336	1	-1	-1	0						X				
ITGA2B	NM_000419	-1	0	0	1									X	
ITIH4	NM_002218	-1	0	0	-1									X	
JARID1C	NM_004187	1	1	-1	1			X							
JMJD2C	NM_015061	0	-1	0	0					X					
KCNG1	NM_002237	-1	1	0	0						X				
KCNN4	NM_002250	1	0	-1	-1						X				
KEAP1	NM_203500	1	0	-1	0									X	
KIAA0090	NM_015047	0	-1	-1	1					X					
KIAA0090	BX648708	-1	0	-1	-1					X					
KIAA0265	D87454	0	-1	0	0						X				
KIAA0423	NM_015091	-1	0	0	0						X				
KRTAP1-1	NM_030967	0	0	-1	-1					X					
KRTAP5-8	NM_021046	1	-1	-1	0									X	
L3MBTL2	AK057177	-1	0	-1	-1		X								
LASS4	NM_024552	0	-1	-1	1	X									
LAT	NM_014387	-1	0	-1	0							X			
LBX2	NM_001009812	-1	-1	-1	-1							X			
LCAT	NM_000229	-1	1	-1	0							X			
LEAP2	NM_052971	-1	0	1	-1						X				
LMO1	NM_002315	0	-1	1	-1							X			
LOC134145	NM_199133	0	0	-1	-1			X							
LOC643641	AB011115	-1	0	-1	-1		X								
LOC751071	NM_001043229	1	0	-1	0				X						
LOC81691	NM_030941	-1	0	0	1						X				
LOC90379	NM_138353	1	1	-1	1					X					
LOC93349	NM_138402	0	-1	-1	0						X				
LOXL2	NM_002318	-1	0	-1	0			X							
LRFN4	NM_024036	1	0	-1	0				X						
LRRC23	NM_006992	-1	0	0	-1					X					
LRRC61	NM_023942	0	-1	-1	0						X				
LRSAM1	NM_138361	-1	-1	-1	1									X	
LY96	NM_015364	-1	-1	1	-1			X							
LYPLA2	NM_007260	0	0	-1	0				X						
MAGED4	NM_030801	-1	0	-1	1			X							
MAMDC4	NM_206920	-1	0	-1	0									X	
MAP3K6	NM_004672	1	0	-1	1	X									
MAP3K6	NM_004672	1	0	-1	1	X									
MBD3	NM_003926	-1	1	-1	1	X									
MFI2	NM_005929	-1	-1	-1	0						X				
MFI2	NM_033316	0	-1	-1	0						X				
MGAT4B	NM_054013	0	0	-1	-1			X							
MGAT5B	NM_144677	0	0	-1	0									X	
MOSC1	NM_022746	1	-1	0	1					X					
MRM1	NM_024864	1	0	-1	1										X
MRPL54	NM_172251	0	0	-1	-1									X	
MSL2L1	NM_018133	0	1	-1	0						X				
MUSTN1	NM_205853	-1	0	-1	0			X							
MUTYH	NM_012222	0	0	-1	1					X					
MUTYH	NM_001048173	0	0	-1	0					X					
MYOM1	NM_003803	0	1	-1	1						X				
MYST4	NM_012330	0	0	-1	0				X						
NAPRT1	NM_145201	0	-1	-1	0			X							
NBEAL2	AK131104	1	-1	-1	0							X			
NEK8	NM_178170	0	-1	-1	-1				X						
NFKBIB	NM_001001716	-1	1	-1	0					X					
NME3	NM_002513	-1	-1	-1	1				X						
NOB1	NM_014062	0	-1	-1	0									X	
NOL3	NM_003946	0	-1	-1	0					X					
NPB	NM_148896	-1	1	-1	1					X					
NR1H2	NM_007121	-1	1	-1	0			X							
NRSN2	NM_024958	-1	0	-1	1			X							
NUCB1	NM_006184	0	-1	-1	1						X				
NUDT8	NM_181843	0	0	-1	1							X			
OBFC2A	NM_001031716	1	-1	1	0						X				

OBFC2A	NM_001031716	1	-1	1	0						X				
OFD1	NM_003611	-1	-1	1	0					X					
OLFML3	NM_020190	-1	1	-1	0			X							
OLFML3	NM_020190	-1	1	-1	0			X							
OR10A4	NM_207186	-1	-1	0	-1							X			
OSGIN1	NM_013370	0	-1	-1	-1						X				
P2RX4	NM_002560	-1	-1	-1	-1				X						
PANK4	NM_018216	1	0	-1	0						X				
PAQR6	NM_024897	-1	0	0	1					X					
PARP3	NM_001003935	-1	-1	-1	0						X				
PDCL3	NM_024065	-1	0	0	0							X			
PDGFRL	NM_006207	-1	-1	-1	1							X			
PGLYRP3	NM_052891	-1	-1	0	-1							X			
PHB	NM_002634	-1	-1	0	0						X				
PHF11	NM_001040443	-1	-1	-1	-1				X						
PHYH	NM_006214	-1	-1	-1	0						X				
PICK1	NM_012407	-1	-1	-1	0	X									
PIP5KL1	NM_173492	0	0	-1	0									X	
PKD1L2	NM_052892	0	1	-1	1					X					
PLA2G4C	NM_003706	-1	-1	-1	0							X			
PLEKHH3	NM_024927	-1	-1	-1	1									X	
PNPLA6	NM_006702	0	-1	-1	0							X			
POMZP3	NM_152992	-1	0	-1	1			X							
PPAP2C	NM_177543	0	0	-1	0							X			
PPM1M	NM_144641	-1	0	-1	-1						X				
PPM2C	NM_018444	1	0	0	-1					X					
PPP1R13L	NM_006663	-1	0	-1	0	X									
PPP1R9B	NM_032595	-1	0	-1	0							X			
PRKAR1B	NM_002735	0	-1	-1	-1									X	
PRR15	NM_175887	1	-1	0	0							X			
PSMB8	NM_004159	1	-1	-1	0						X				
PSME1	NM_006263	0	0	-1	-1							X			
PTGES	NM_004878	-1	0	-1	-1									X	
PTK6	NM_005975	1	0	-1	-1	X									
PTOV1	NM_017432	-1	0	-1	1									X	
PYDC1	NM_152901	1	-1	0	1			X							
RAB1B	NM_030981	0	-1	-1	1									X	
RAC3	NM_005052	-1	0	-1	0										X
RAMP1	NM_005855	0	-1	0	1			X							
RANBP5	NM_002271	0	-1	-1	0						X				
RANGAP1	NM_002883	0	1	-1	1							X			
RARRES3	NM_004585	0	-1	-1	0						X				
RBM35B	NM_024939	0	-1	-1	0					X					
RBM9	NM_014309	-1	0	-1	0					X					
RCCD1	NM_033544	0	0	-1	0						X				
RELB	NM_006509	1	1	-1	0			X							
RG9MTD2	NM_152292	-1	-1	1	0				X						
RGNEF	NM_001080479	1	-1	0	0					X					
RHBDD3	NM_012265	-1	0	-1	1							X			
RHOD	NM_014578	0	0	-1	0						X				
RNF187	BC012758	-1	-1	-1	-1									X	
RNF208	NM_031297	0	-1	-1	0						X				
RNF215	NM_001017981	-1	0	-1	-1		X								
RNF5	NM_006913	-1	0	-1	-1			X							
ROBO3	NM_022370	-1	0	-1	-1		X								
RP11-151A6.2	BC001077	-1	0	0	-1				X						
RPRML	NM_203400	1	1	-1	1									X	
S100A11	NM_005620	0	-1	0	-1									X	
SEMA3F	NM_004186	0	-1	1	0						X				
SEPP1	NM_005410	-1	0	1	1						X				
SERPINA3	NM_001085	1	1	-1	0	X									
SFRS15	NM_020706	0	0	-1	0				X						
SLC16A4	NM_004696	-1	0	1	1										X
SLC2A4RG	NM_020062	-1	-1	-1	1										X
SLC2A4RG	NM_020062	-1	-1	-1	1										X
SLC5A6	NM_021095	0	0	-1	0						X				

SLC6A16	NM_014037	-1	1	0	1			X								
SLCO4A1	NM_016354	1	0	-1	-1										X	
SPAG8	NM_172312	-1	0	1	1						X					
SPG7	NM_003119	0	-1	-1	0								X			
STOML1	NM_004809	-1	-1	0	-1						X					
STX4	NM_004604	0	-1	-1	-1										X	
STXBP2	NM_006949	-1	0	-1	0			X								
STYK1	NM_018423	-1	-1	-1	0					X						
SUMO3	NM_006936	0	0	-1	0				X							
SYDE1	NM_033025	0	-1	-1	0							X				
SYTL1	NM_032872	-1	-1	0	1									X		
TADA3L	NM_006354	-1	0	-1	-1			X								
TAP1	NM_000593	1	0	-1	1									X		
TCEA3	NM_003196	-1	-1	-1	1				X							
TEX28	NM_001586	-1	0	-1	0									X		
TFR2	NM_003227	0	-1	-1	0										X	
TICAM1	NM_182919	1	0	-1	0											X
TMEM16C	NM_031418	0	-1	1	1					X						
TMEM173	NM_198282	0	-1	-1	1	X										
TMEM42	NM_144638	-1	0	-1	-1									X		
TMEM63A	NM_014698	0	-1	-1	1						X					
TMEM81	NM_203376	-1	0	0	-1			X								
TNFRSF14	NM_003820	1	-1	-1	1									X		
TNKS1BP1	NM_033396	1	-1	-1	-1				X							
TNPO2	NM_013433	0	1	-1	-1								X			
TP53	NM_000546	-1	0	-1	-1								X			
TP53I3	NM_004881	-1	-1	-1	1					X						
TRAF1	NM_005658	-1	0	-1	0						X					
TRAPPC6A	NM_024108	-1	0	-1	0						X					
TRIM16	NM_006470	-1	0	-1	0						X					
TRIP6	NM_003302	0	0	-1	0			X								
TRPM4	NM_017636	-1	1	-1	1								X			
TSGA14	NM_018718	0	0	-1	-1						X					
TSPAN4	NM_003271	0	-1	-1	0					X						
TSPO	NM_007311	-1	-1	-1	0										X	
TTC18	NM_145170	-1	-1	1	-1								X			
TXNRD2	NM_006440	0	0	-1	-1								X			
TYK2	NM_003331	0	0	-1	-1	X										
UBXD6	NM_005671	1	0	-1	1						X					
UCKL1	NM_017859	0	0	-1	0							X				
UQCR	NM_006830	0	0	-1	1					X						
WDR90	NM_145294	1	0	-1	0										X	
WDR90	NM_145294	1	0	-1	0										X	
WFDC2	NM_080736	0	-1	1	1			X								
WNT5B	NM_030775	0	0	-1	-1		X									
YIPF2	NM_024029	-1	-1	-1	0				X							
ZADH1	NM_152444	-1	0	-1	0					X						
ZDHHC1	NM_013304	-1	0	-1	-1							X				
ZFAND1	NM_024699	-1	0	1	-1						X					
ZNF276	NM_152287	0	-1	-1	-1									X		
ZNF563	NM_145276	-1	1	1	0					X						
ZNF77	NM_021217	-1	0	0	-1	X										
ZNF771	NM_016643	-1	0	-1	0										X	