

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
ZDHH2	NM_016353	-1	0	-1	-1	X	X		X	X	X	X	X	X	X
ZFH4	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

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	-1		X		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	X	
ANXA4	NM_001153	-1	-1	-1	0	X	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	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	
ERRFI1	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
FIX1	NM_014344	1	0	-1	1			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	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	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	
ZFHX2	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	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		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	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
MIB2	NM_080875	-1	1	-1	0		X	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	
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		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		
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		X
TLE3	AB046767	0	1	-1	1			X	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_051719	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	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	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	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	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	X
PDE1A	NM_001003683	-1	1	-1	1	X				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				
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	X	
SEPHS2	NM_012248	-1	1	1	-1		X			X	X	X	X	X	
SFXN2	NM_178858	0	-1	0	1	X			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		
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		X
WWTR1	AL050107	-1	0	-1	1			X		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	
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	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	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	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
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	
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
HDCC2	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	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	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	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	-1	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
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

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
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		
ATO8	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
BCL7B	NM_138707	0	-1	-1	-1				X	X		X		
BTD	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	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	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
ADAMTSL5	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		
LGIA	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			
TMCO7	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					

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													
MF12	NM_005929	-1	-1	-1	0														X
MF12	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							
MRRM1	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								
NFKB1B	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							

